

**Applicant:** SERVPRO  
**Request:** BUILDING PERMIT  
**Meeting Date:** 3/8/2021

**Address:** 3049 & 0 Horseshoe Bend Ln.  
**Map/Parcel Number:** 89 22207 & 22208  
**Location:** Northeast side of Horseshoe Bend Ln. near the end of the cul-de-sac  
**Existing Zoning:** BP (Business and Technology) / TO (Technology Overlay) / F (Floodway)  
**Proposed Zoning:** N/A  
**Existing Land Use:** Undeveloped land  
**Proposed Land Use:** Office/warehouse building  
**Appx. Size of Tract:** 7.99 acres  
**Accessibility:** Access is via Horseshoe Bend Ln., a local road with a 26.5-ft pavement width inside a 50-ft right-of-way  
**Surrounding Zoning and Land Uses:**

North: Office building and single family residence - BP (Business and Technology) / TO (Technology Overlay), A (Agricultural) / TO (Technology Overlay), and PR (Planned Residential with 3.5 du/ac) / TO (Tech  
 South: Undeveloped land - BP (Business and Technology) / TO (Technology Overlay)  
 East: Office building - BP (Business and Technology) / TO (Technology Overlay)  
 West: Office building - BP (Business and Technology) / TO (Technology Overlay) / F (Floodway)

**Comments:**

- 1) The applicant is requesting approval of an office/warehouse in the BP (Business and Technology Park) / TO (Technology Overlay) zones. The site would also contain a small outbuilding for training, and a fuel island at the rear of the site. The Knox County Development Services Department has confirmed they would allow a small fuel island at the rear of the site as a secondary use in the BP zone. There is ample vegetation at the rear of the site in the floodplain area, so additional screening of the fuel island is not required.
- 2) The site is located on 2 parcels on the northwest side of Horseshoe Bend Lane towards the end of the cul-de-sac. The applicant will need to replat and combine the lots in order to develop the property as proposed.
- 3) The main structure is centrally located on the lot and has an area of 55,000 square feet. The training facility is to the rear of the developed portion of the site and is not readily visible from the street.
- 4) The site is accessed off of Horseshoe Bend Lane, a local road.
- 5) FEMA has designated a large portion at the rear of the site as a floodway or as 100- and 500-year floodplains. Knox County's Engineering Department has identified the no-fill line, beyond which no infill of the property would be allowed (see sheet C1.0). No building or infill is to occur beyond that area, and no building or development will occur in the floodway or floodplain areas of the site.
- 6) This application is for the site and building design only. A grading plan will be developed upon approval of the building and site plan. If significant changes in the building or site design occur during the grading plan process, those changes would need to come back to the TTCDA with the grading plan.

- 7) A small portion of the site is in the Hillside and Ridgetop Protection Area. Minor grading will occur in this portion of land designated HP, and that is to install the driveway. However, the slope on this area of land is within the 0-15% range, and is relatively flat.
- 8) Ground Area Coverage (GAC), Impervious Area Ratio (IAR), and Floor Area Ratio (FAR) calculations comply with the Design Guidelines.
- 9) Proposed parking is in compliance with the TTCDA Guidelines. Proposed parking consists of 56 spaces at the front of the site. The proposed landscaping buffer meets TTCDA requirements.
- 10) The front façade features alternating EIFS-clad panels and smooth surfaced EIFS. The side and rear facades would utilize prefabricated metal panels, which would require a waiver of Section 2.2.2 requirements, which discourages use of metal panels. The west façade of the building is angled away from the street and is therefore not as visible. Plantings along the west side of the driveway will block view of that side of the building from the street. The east side of the building faces the cul-de-sac and would only be seen by those that travel the entire street, not by visitors to buildings coming before this one on the street. Additional plantings are provided on the east side of the site to block the view of the material from the street.
- 11) Section 3.3.3 requires 9,500 square feet of landscaping; 8,668 square feet of landscaping is proposed. The landscaping plan will require a waiver of Section 3.3.3 to reduce the planting area around the perimeter of the building from a minimum of 50% of the area of the front and side facades to 46.5%.
- 12) The lighting plans will require two waivers:
  - a. Waiver of Section 1.8.5(a) requirements to allow 1.5 footcandles (fc) at building entries to minimize trip hazards and provide additional security.
  - b. Waiver of Section 1.8.5(c) requirements to allow 2.5 fc at the driveway entrance to increase safety and security on the site.
- 13) No signage is proposed at this time. Should signage be desired, it should be submitted in a separate application at a future time.

<b>Design Guideline Conformity:</b>	With the recommended conditions and approval of the requested waivers, this request complies with the TTCDA Design Guidelines.
<b>Waivers and Variances Requested:</b>	<ol style="list-style-type: none"> <li>1) Waiver to allow metal panels on side and rear facades.</li> <li>2) Waiver to reduce the building perimeter planting area to 45.6%.</li> <li>3) Waiver to increase the footcandles at building entries to 1.5 fc.</li> <li>4) A waiver to increase the footcandles at the driveway entrance to 2.5 fc.</li> </ol>

**Staff Recommendation:**

Based on the application and plans as submitted and revised, Staff recommends the following actions on the required waivers from the Design Guidelines:

- 1) Approve the waiver to allow metal panels on the side and rear facades since landscaping will buffer the view of the side facades from the street.
- 2) Approve the waiver to reduce the amount of square footage required to be planted around the perimeter of the building from 50% of the area of the front and side facades to 46.5% since there is ample vegetation elsewhere on the site and the plantings meet the overall intent of this section.
- 3) Approve the waiver to increase the allowed lighting levels at building entries from 1.0 fc to 1.5 fc to increase safety and minimize trip hazards.
- 4) Approve the waiver to increase the allowed lighting levels in the driveway from 0.5 fc to 2.5 fc to increase safety and security.

Based on the application and plans as submitted and revised, Staff recommends APPROVAL of this request for a Certificate of Appropriateness for a building permit, subject to the following conditions:

- 1) Replatting of the lots to combine them into 1 lot. Buildings cannot cross property lines, so the property needs to be one-lotted into to meet side setback requirements.
- 2) Connection to sanitary sewer and meeting any other relevant requirements of the utility provider.
- 3) Installation of all landscaping as shown on development plan within six months of the issuance of an occupancy permit,

or posting a bond with the Knox County Department of Engineering and Public Works to guarantee such installation.

4) Meeting all other applicable requirements of the Knox County Department of Engineering and Public Works.

5) Meeting all applicable requirements of the Knox County Zoning Ordinance.

6) Meeting all applicable requirements of the Knox County Fire Marshall's office.

7) Meeting all applicable requirements and obtaining all required permits from the Tennessee Department of Health.

8) No signage is requested at this time. If signage is desired in the future, a signage package would need to be submitted and would be required to meet all applicable requirements of the TTCDA.





MPL Construction & Architecture  
115 Cedar Lane  
Chattanooga, TN 37421  
423-899-7737  
mplconstruction.com

February 25, 2021

**Waiver Request for 3-B-21-TOB – ServPro Development Plans TTCDA**

Tax Map # 089 22207 & 089 22208

3049 & 0 Horseshoe Bend Ln. (Parcel IDs: 089 22207 & 22208)

Knoxville, TN 37931

Ms. Portier,

MPL Construction & Architecture and ASA engineering on behalf of SERVPRO of Knoxville request the following waivers to specific subsections of the TTCDA Guidelines. Please consider grant the following two waivers noting that the submitted plans strive to meet the intent and guidelines directly with limited alternatives.

Please consider:

- 1) Section [3.3.3] 9,500sf of planting beds are required around the building (50% of the front and side façade square footage), but 8,668sf of yard are shown. This site is burdened by several variables which include ridgetop protected area, floodway, no fill line, existing sewer line, a sewer easement, all of which are limiting the buildable area. The building owner requires 50,000sf with truck access yards, plus the parking and stormwater retention requirements are all competing for space. The planting yard has been addressed as best we believe will leave enough room for other functions. MPL has worked to accommodate the TTCDA yards required, but requests a waiver for the last 832sf.
- 2) Section [2.2.2]. The building is designed with a front elevation clad in EIFS (Exterior Insulation Finishing System) including a parapet to hide the proposed rooftop HVAC units. The remaining elevations not visible from the street will be predominately clad with metal panels. The front elevation faces South towards Horseshoe Band Lane. The other sides (West, North, East) all face a bend in Beaver Creek. The area near the creek is wooded and in the no fill zone. The West side of the building is over 600 feet from Pellissippi Parkway and is not visible from the road, it is obscured by trees and vegetation. The area in-between is not developable (in the floodplain). Additional planting of several tall Cypress plants along both side yards will provide additional screening. MPL requests a waiver for metal siding on the sides and rear of the building.

Thank you for your time and consideration of these requests. Please contact me with any questions.

Thank you,

A handwritten signature in black ink, appearing to read 'Stephen Collins', written over a light blue horizontal line.

Stephen Collins





MPL Construction & Architecture  
115 Cedar Lane  
Chattanooga, TN 37421  
423-899-7737  
mplconstruction.com

March 2, 2021

**Waiver Requests (3,4) for 3-B-21-TOB – ServPro Development Plans TTCDA**

Tax Map # 089 22207 & 089 22208

3049 & 0 Horseshoe Bend Ln. (Parcel IDs: 089 22207 & 22208)

Knoxville, TN 37931

Ms. Portier,

MPL Construction & Architecture and ASA engineering on behalf of SERVPRO of Knoxville request the following waivers to specific subsections of the TTCDA Guidelines. Please consider grant the following additional two waivers regarding site lighting, noting that the submitted plans strive to meet the intent and guidelines directly with limited alternatives. Four waivers are requested in total.

Please consider:

- 3) **Waiver for Section 1.8.5(a)**, maximum intensity of lighting at building entrances to allow 1.5 footcandles (fc) at the entries versus the 1.0 fc allowed by the TTCDA Guidelines to minimize trip hazards as well as provide additional security.
- 4) **Waiver for Section 1.8.5(c)**, for the lighting to exceed 0.5 fc at the entry driveways into the site to allow 2.5 fc at the driveway entrance versus the 0.5 fc allowed by the TTCDA Guidelines for driveways and streets within developments.

Additional information regarding site lighting: TTCDA requires all pole lights to be between 22'-30' [1.8.6(a)]. Based on the design documents the foot candle design was created using 25' poles. Attached are two cut sheets. No change to site lighting drawing.

- **Hubbell AIRO Micro Strike - pole light**  
<https://hubbellcdn.com/specsheet/Airo ho MicroStrike spec sheet.pdf>
- **Hubbell SLING Series – wall pack**  
<https://hubbellcdn.com/specsheet/SG series.pdf>

Thank you for your time and consideration of these requests. Please contact me with any questions.

Thank you,

A handwritten signature in black ink, appearing to read "Stephen Collins".

Stephen Collins

**SITE DATA:**

TTODA FILE #: 3-B-21-TOB  
PROPERTY INFORMATION:  
TAX MAP #: 089 22207 & 089 22208  
STREET ADDRESS: 3409 HORSESHOE BEND LANE  
KNOXVILLE, TN  
LOT SIZE: 7.99 ACRES

PROJECT ENGINEER:  
ASA ENGINEERING & CONSULTING, INC.  
714 CHERRY ST.  
CHATTANOOGA, TN 37402  
423.805.3700

ZONING INFORMATION:  
ZONING CLASSIFICATION: BPTO (BUSINESS + TECHNOLOGY PARK ZONE)  
FRONT SETBACK: 80 FT  
SIDE SETBACK: 20 FT  
REAR SETBACK: 100 FT

**PROJECT DATA:**

STREET ADDRESS: 3409 HORSESHOE BEND LANE  
PROPOSED USE: WAREHOUSE  
BUILDING FOOTPRINT: 50,400 SF  
TOTAL BLDG SF: 50,400 SF  
TOTAL IMPERVIOUS AREA: 141,470 SF  
GAC: 14.5% (20% MAX)  
FAR: 15.5% (20% MAX)  
GAR: 40.0% (70% MAX)

PARKING:  
TTODA PARKING REQUIREMENTS FOR OFFICE/WAREHOUSE  
I. MIN: 1 SPACE PER 1,000 SF OF GROSS FLOOR AREA (55 SPACES)  
II. MAX: 1.5 SPACES PER 1,000 SF OF GROSS FLOOR AREA (82.5 SPACES)  
KNOX COUNTY PARKING REQUIREMENTS  
I. PROFESSIONAL OFFICE SPACE: 1 SPACE PER 250 SF OFFICE SPACE (11,000 SF OF OFFICE SPACE = 44 SPACES)  
II. 1 SPACE PER EVERY 2 EMPLOYEES ON MAX SHIFT (35-50 EMPLOYEES)

WAREHOUSE OFFICE SPACES PROVIDED: 55 SPACES  
TOTAL PARKING AREA: 25,167 SF (5% DEDICATED TO LANDSCAPE)  
REQUIRED: 1,258 SF  
PROVIDED: 1,547 SF  
PARKING LOT TREES (1/5000 SF): 5 TREES  
SF OF PLANTING BEDS AROUND BUILDING: 8,668 SF (9,500 REQ.)  
(VARIANCE FOR 832 SF REQUIRED)

NO BUILDING IS PLACED WITHIN THE FLOODWAY.

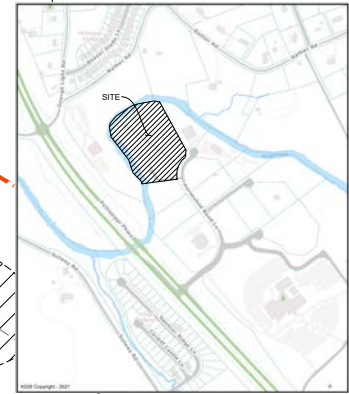
\*SURVEY INFORMATION DERIVED FROM PLATS AND KNOXVILLE GIS DATA

10636 RATHER RD  
PARCEL ID: 089 17301  
ZONE: BPTO

300 FT SETBACK

**PLANT SCHEDULE LANDSCAPE**

TREES	QTY	BOTANICAL / COMMON NAME	TYPE	SIZE	HEIGHT
CA	3	Cedrus atlantica / Atlas Cedar	Evergreen		5-6 FT HT MIN
CI	14	Cupressus sempervirens / Italian Cypress	Evergreen		5-6 FT HT MIN
PY	8	Prunus x yedoensis / Yoshino Cherry	Deciduous		6-8' HT
QP	5	Quercus phellos / Willow Oak	Deciduous	2" Cal	10-12' HT
UE	1	Ulmus parvifolia 'Emer II' / 'Emer II' Allee Elm	Deciduous	2" Cal	10-12' HT
ZS	2	Zelkova serrata / Sawleaf Zelkova	Deciduous	2" CAL	10-12' FT HT
SHRUBS	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPREAD
HW	6	Hydrangea quercifolia 'Pee Wee' / Oakleaf Hydrangea	Deciduous	24" HT	18"
IV	10	Ilex vomitoria 'Nana' / Dwarf Yaupon	Evergreen	3 GAL	
IN	20	Ilex x 'Nellie R. Stevens' / Nellie R. Stevens Holly	Evergreen	4-6' HT	
IH	32	Itea virginica 'Henry's Garnet' / Henry's Garnet Sweetpire	Deciduous	18" HT	24"
MM	114	Miscanthus sinensis 'Morning Light' / Morning Light Eulalia Grass	Evergreen	1 GAL	Full
MC	23	Myrica cerifera / Wax Myrtle	Evergreen	3 GAL	24"
PO	8	Prunus laurocerasus 'Otto Luyken' / Luykens Laurel	Evergreen	3 gal	24"



LOCATION MAP - NOT TO SCALE



REVISION	DATE
NO	

Project Name  
SERVPRO  
3409 HORSESHOE BEND LN  
KNOXVILLE, TN

115 CEDAR LANE  
CHATTANOOGA, TN 37421  
PHONE: 423.899.7737  
FAX: 423.899.7738

**MPL**  
CONSTRUCTION & ARCHITECTURE



Project Number  
20-0121  
Date  
3/01/2021

Sheet Name  
PRELIMINARY SITE & LANDSCAPE PLAN

Sheet Number  
C1.0



ANY LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES AND RECORD DRAWINGS PROVIDED THE SURVEYOR AND MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO LOCATIONS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES. FOR INFORMATION REGARDING THESE UTILITIES, CONTACT THE APPROPRIATE AGENCIES.

# SLING Series

SLENDER WALLPACK

tradeSELECT®

## FEATURES

- Two sizes for a variety of applications
- Ranges from 21W to 80W with up to 8000 lumens
- SG1 Series replaces from 100W-150W HID; SG2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and trunnion accessory mounting kits available for flood applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient
- DLC (DesignLights Consortium Qualified - see [www.designlights.org](http://www.designlights.org))



\*3000K and warmer CCTs only



## RELATED PRODUCTS

- θ [LNC Litepak](#)
- θ [LNC2 Litepak](#)
- θ [LNC3 Litepak](#)
- θ [LNC4 Litepak](#)
- θ [GeoPak](#)
- θ [GeoPak2](#)

## SPECIFICATIONS

### HOUSING

- Rugged die-cast aluminum housing with corrosion resistant powder coat finish
- Heating dissipating fins provide superior thermal performance extending the life of the electronic components
- Impact resistant tempered glass offers zero uplight
- Comfort lens available as an option or accessory to reduce glare (7-10% lumen reduction) and provide better uniformity

### OPTICS

- 3000K, 4000K and 5000K CCT nominal with 70 CRI
- Smaller SG1 housing has 2 LEDs, larger SG2 housing has 3 LEDs

### INSTALLATION

- Side hinge allows for easy installation and wiring
- Side movement avoids damage to the lens and helps prevent injury common in drop down hinge designs
- Mounts to 4" junction box and includes a gasket to help seal electrical connections
- Four 1/2" threaded conduits hubs for surface conduit provided

### ELECTRICAL

- 120-277V, 50/60Hz electronic drivers
- 347V and 480V available in large SG2 housing
- 10KA surge protection included

### OPTIONS/CONTROLS

- Button photocontrol for dusk to dawn energy savings. Stock versions include 120V-277V PC with a cover which provides a choice to engage photocontrol or not. PC is installed in top hub
- Occupancy sensor available for on/off and dimming control in larger SG2 housing
- SiteSync™ wireless lighting control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution. See ordering information or visit [www.hubbelllighting.com/sitesync](http://www.hubbelllighting.com/sitesync) for more details
- Battery backup options available in larger SG2 housing rated for either 0° C or -30° C. Performance exceeds NEC requirement providing 1 fc minimum over 10'x10' at 11' mounting height

### CERTIFICATIONS

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at [www.designlights.org](http://www.designlights.org)
- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplight for 3000K and warmer CCTs
- IP65

### WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	2263-8079
Wattage Range	21-80
Efficacy Range (LPW)	101-113
Fixture Projected Life (Hours)	L70>50K
Weights lbs. (kg)	4.3-11 (2.0-5.0)



DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# SLING SERIES

SLENDER WALLPACK

## ORDERING GUIDE

Example: SG1-20-3K7-FT-UNV-DBT-PCU-CS

CATALOG #

## ORDERING INFORMATION

Housing	CCT/CRI	Distribution	Voltage	Color/Finish	Control Options	Options
<b>SG1-10</b> Size 1, 10W <b>SG1-20</b> Size 1, 20W <b>SG1-30</b> Size 1, 30W <b>SG1-40</b> Size 1, 40W <b>SG2-50</b> Size 2, 50W <b>SG2-80</b> Size 2, 80W	<b>3K7</b> 3000K, 70 CRI <b>4K7</b> 4000K, 70 CRI <b>5K7</b> 5000K, 70 CRI	<b>FT</b> Fwd Throw	<b>UNV</b> 120V-277V <b>120</b> 120V <b>277</b> 277V <b>UHV</b> 347V-480V	<b>BLT</b> Black Matte Textured <b>BLS</b> Black Gloss Smooth <b>DBT</b> Dark Bronze Matte Textured <b>DBS</b> Dark Brone Gloss Smooth <b>GTT</b> Graphite Matte Textured <b>LGS</b> Light Grey Gloss Smooth <b>PSS</b> Platinum Silver Smooth <b>WHT</b> White Matte Textured <b>WHS</b> White Gloss Smooth <b>VGT</b> Verde Green Textured <b>Color Option</b> <b>CC</b> Custom Color	<b>PCU</b> Universal Button Photocontrol (120-277V) <b>SCP</b> <sup>1,2,3</sup> Occupancy Sensor Programmable (Dim) <b>SWP</b> <sup>1,2</sup> SiteSync Pre-commission <b>SWPM</b> <sup>1,2</sup> SiteSync Pre-commission w/ Sensor <b>Specify MTG HT for SCO/SCP &amp; SWPM</b> <b>8F</b> Up to 8' <b>20F</b> Up to 20'	<b>CS</b> Comfort Lens <b>E</b> <sup>1,2</sup> Battery 0°C <b>EH</b> <sup>1,2</sup> Battery w/ heater -20°

### Notes:

- Available in SG2 only, UHV available in SG2-50 only
- Sensor controls & battery backup can not be used with flood accessory or kit or for inverted/up mounting, 120-227V only for SCO/SCP, 120 or 277 only for SWP, SWPM, E & EH
- Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only

## STOCK ORDERING INFORMATION

Catalog Number	CCT/CRI	Wattage	Mounting Height	Color	Color	Delivered Lumens	LPW	Weight lbs. (kg)
<b>SG1-10-PCU</b>	5000K/70	11W	8-12ft	120-277V	Dark Bronze	1349	122	4.3 (2.0)
<b>SG1-10-4K-PCU</b>	4000K/70	11W	8-12ft	120-277V	Dark Bronze	1424	129	4.3 (2.0)
<b>SG1-20-PCU</b>	5000K/70	21W	8-12ft	120-277V	Dark Bronze	2263	108	4.3 (2.0)
<b>SG1-20-4K-PCU</b>	4000K/70	21W	8-12ft	120-277V	Dark Bronze	2310	110	4.3 (2.0)
<b>SG1-30-PCU</b>	5000K/70	29W	10-15ft	120-277V	Dark Bronze	3270	113	4.3 (2.0)
<b>SG1-30-4K-PCU</b>	4000K/70	29W	10-15ft	120-277V	Dark Bronze	3060	105	4.3 (2.0)
<b>SG1-40-PCU</b>	5000K/70	38W	10-15ft	120-277V	Dark Bronze	4008	105	4.3 (2.0)
<b>SG1-40-4K-PCU</b>	4000K/70	38W	10-15ft	120-277V	Dark Bronze	4070	106	4.3 (2.0)
<b>SG2-50-PCU</b>	5000K/70	51W	12-18ft	120-277V	Dark Bronze	5548	110	11 (5.0)
<b>SG2-50-4K-PCU</b>	4000K/70	51W	12-18ft	120-277V	Dark Bronze	5526	109	11 (5.0)
<b>SG2-80-PCU</b>	5000K/70	80W	15-25ft	120-277V	Dark Bronze	8061	101	11 (5.0)
<b>SG2-80-4K-PCU</b>	4000K/70	80W	15-25ft	120-277V	Dark Bronze	8079	101	11 (5.0)

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# SLING SERIES

SLENDER WALLPACK

## ORDERING GUIDE

### OPTIONS AND ACCESSORIES

	Catalog Number	Description	Weight lbs. (kg)
<input type="checkbox"/>	SG1-CS	Acrylic comfort lens for SG1	1 (.45)
<input type="checkbox"/>	SG2-CS	Acrylic comfort lens for SG2	1 (.45)
<input type="checkbox"/>	SG1-YOKE	SG1 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG1-KNUCKLE	SG1 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG2-YOKE	SG2 Series Yoke/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SG2-KNUCKLE	SG2 Series Knuckle/Floodlight mount kit, includes visor	2.0 (1.0)
<input type="checkbox"/>	SCP-REMOTE*	Remote control for SCP option. Order at least one per project to program and control fixtures	1 (.45)
<input type="checkbox"/>	SG1-SPC	Vandal Resistant Lens (shield polycarbonate), SG1	3 (1.5)
<input type="checkbox"/>	SG2-SPC	Vandal Resistant Lens (shield polycarbonate), SG2	3 (1.5)
<input type="checkbox"/>	SG1-WCP	Universal Wall Cover Plate, Dark Bronze, SG1	10 (5)
<input type="checkbox"/>	SG2-WCP-H	Horizontal Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
<input type="checkbox"/>	SG2-WCP-V	Vertical Mount Wall Cover Plate, Dark Bronze, SG2	10 (5)
<input type="checkbox"/>	SG2XL-WCP-H	Horizontal Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)
<input type="checkbox"/>	SG2XL-WCP-V	Vertical Mount Wall Cover Plate, DB, SG2 with battery or sensor	10 (5)

### ACCESSORIES AND SERVICES (ORDERED SEPARATELY)

Control Options	
SWUSB <sup>1</sup>	SiteSync™ interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync™ license, software and USB radio bridge node.
SWTAB <sup>1</sup>	Windows tablet and SiteSync™ interface software. Includes tablet with preloaded software, SiteSync™ license and USB radio bridge node.
SWBRG <sup>2</sup>	SiteSync™ USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.

Notes:

- When ordering SiteSync™ at least one of these two interface options must be ordered per project.
- If needed, an additional Bridge Node can be ordered.

# SLING SERIES

SLENDER WALLPACK

## PERFORMANCE DATA

Description	# of LEDs	Drive Current	System Watts	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
SG1-10	2	140mA	11	1349	122	1	0	0	1424	129	1	0	0	1003	91	1	0	0
SG1-20	2	250mA	21	2449	115	1	0	0	2310	110	1	0	0	2054	95	1	0	0
SG1-30	2	350mA	29	3332	117	2	0	0	3060	106	1	0	0	2913	100	1	0	0
SG-40	2	450mA	38	4008	105	2	0	0	4070	106	2	0	0	3845	100	2	0	0
SG2-50-UHV	3	350mA	44	4633	106	2	0	0	4609	105	2	0	0	3895	90	2	0	0
SG2-50	3	415mA	51	5548	109	2	0	0	5526	107	2	0	0	4700	92	2	0	0
SG2-80	3	650mA	80	7851	98	2	0	1	8079	103	2	0	1	6721	86	2	0	1

\*347 and 480 VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment application and inherent performance balances of the electrical components.

## ELECTRICAL DATA

Catalog number	# of Drivers	Input Voltage	Current (AMPS)	System Power
SG1-10	1	120	0.09	11.0
	1	277	0.04	11.0
SG1-20	1	120	0.18	21.0
	1	277	0.08	21.0
SG1-30	1	120	0.24	28.9
	1	277	0.10	28.9
SG2-40	1	120	0.32	38.3
	1	277	0.14	38.3
SG-50-UHV	1	347	0.13	43.5
	1	480	0.18	43.5
SG2-50	1	120	0.42	50.6
	1	277	0.18	50.6
SG2-80	1	120	0.68	79.8
	1	277	0.29	79.8

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	50,000	TM-21-11' L96 60,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.98	0.97	0.96	0.95	>791,000
40°C / 104°F	0.99	0.98	0.96	0.96	0.94	>635,000

1. Projected per IESNA TM-21-11 \* (Nichia 219B, 700mA, 85°C Ts, 10,000hrs) Data references the extrapolated performance projections for the base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08

# SLING SERIES

SLENDER WALLPACK

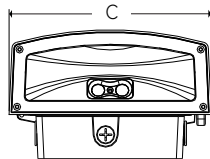
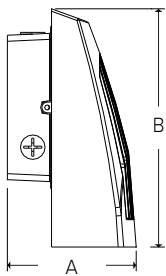
## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99
50° C	122° F	0.96

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

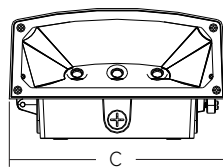
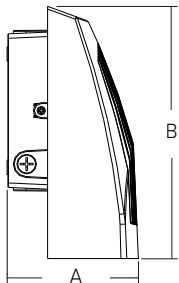
## DIMENSIONS

**SG1**



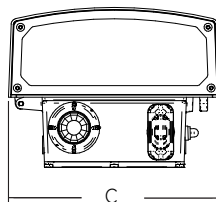
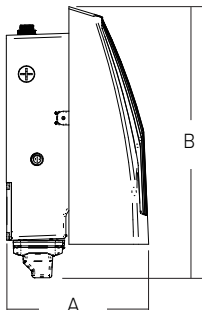
A	B	C	Weight
4.19" (107mm)	7.80" (198mm)	6.61" (168mm)	4.4lbs (2kg)

**SG2**



A	B	C	Weight
5.80" (147mm)	11.14" (283mm)	9.52" (242mm)	11lbs (5kg)

**SG2 with occupancy sensor and battery options**



A	B	C	Weight
7.26" (184mm)	13.84" (352mm)	9.52" (242mm)	11lbs (5kg)

# SLING SERIES

SLENDER WALLPACK

## PHOTOMETRY

### SG1-10-4K7

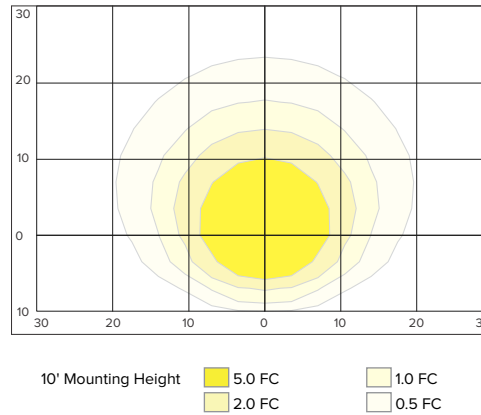
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	1424
Watts	11.4
Efficacy	125
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	996.6	70.0
Downward House Side	427.8	30.0
Downward Total	1424.4	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	1424.4	100.0

#### ISOMETRIC FOOTCANDLE



### SG1-20-4K7

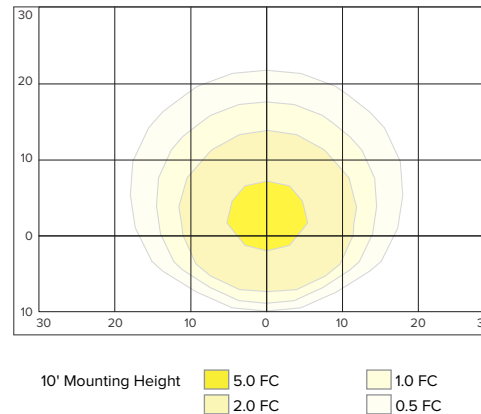
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	2310
Watts	20.9
Efficacy	111
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1618	70.0
Downward House Side	692.1	30
Downward Total	2310	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	2310.3	100.0

#### ISOMETRIC FOOTCANDLE



### SG1-30

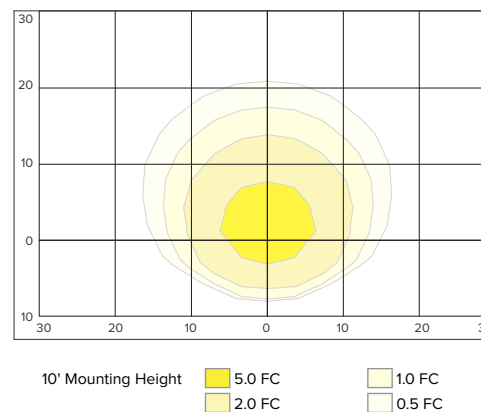
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	3060
Watts	29.1
Efficacy	105
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2619.4	70.9
Downward House Side	890.4	29.1
Downward Total	3059.8	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	3059.8	100.0

#### ISOMETRIC FOOTCANDLE





# SLING SERIES

SLENDER WALLPACK

## PHOTOMETRY

### SG1-40-4K7

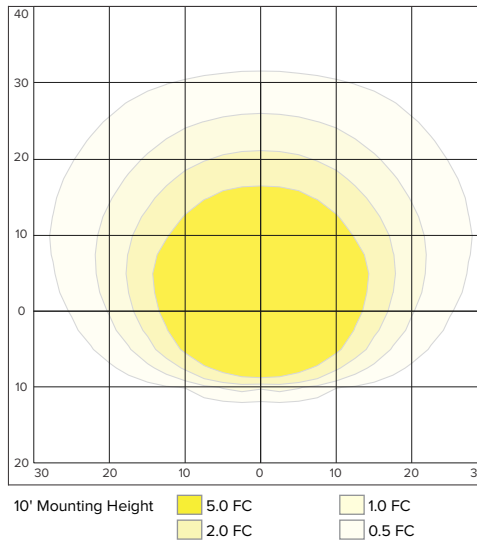
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	4070
Watts	38.1
Efficacy	107
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	2857.7	70.2
Downward House Side	1215.5	29.8
Downward Total	4070.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	4070.2	100.0

#### ISOMETRIC FOOTCANDLE



### SG2-50-4K7

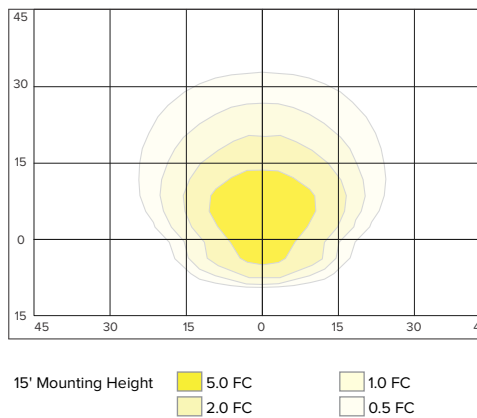
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	5525.7
Watts	51.7
Efficacy	107
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	4611.8	83.5
Downward House Side	913.9	16.5
Downward Total	5525.7	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	5525.7	100.0

#### ISOMETRIC FOOTCANDLE



### SG2-80-4K7

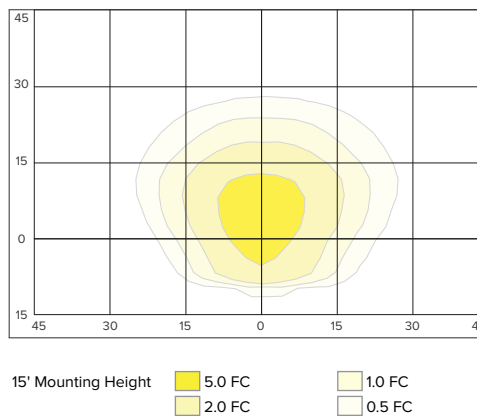
#### LUMINAIRE DATA

Description	4000 Kelvin, 70 CRI
Distribution Type	Forward Throw
Delivered Lumens	8453
Watts	78.5
Efficacy	108
Mounting	Wall

#### ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	6677.7	79.0
Downward House Side	1775.5	21.0
Downward Total	8453.2	100.0
Upward Street Side	0.0	0.0
Upward House Side	0.0	0.0
Upward Total	0.0	0.0
Total Flux	8453.2	100.0

#### ISOMETRIC FOOTCANDLE



# SLING SERIES



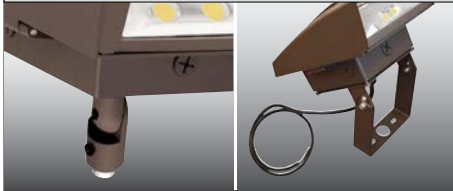

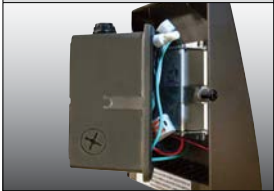
SLENDER WALLPACK

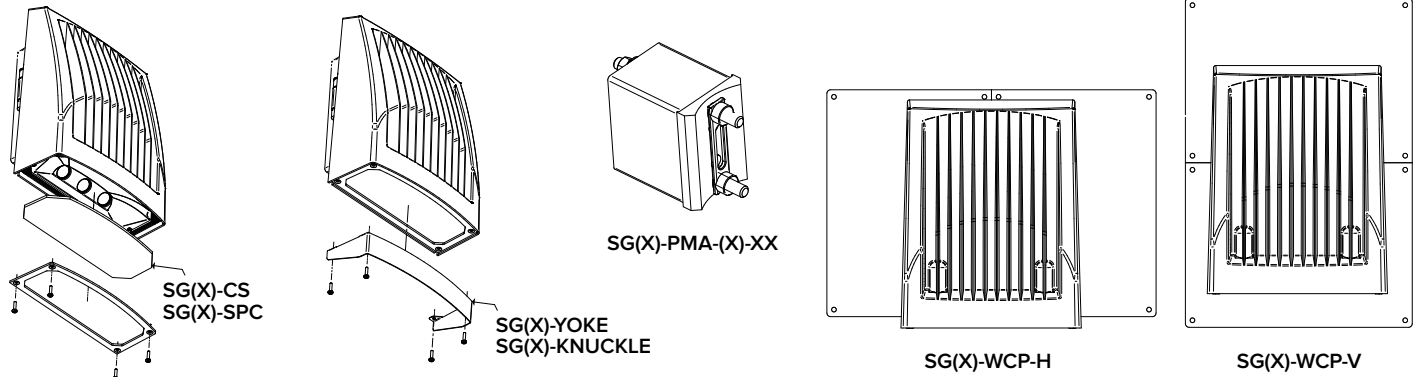
## ADDITIONAL INFORMATION

### Shipping Information



Catalog Number	G.W(kg)/ CTN	Carton Dimensions			Carton Qty. per Master Pack	Pallet Qty.
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)		
SG1	4.35lbs (2kg)	9.5 (24)	8.25 (21)	5.25 (13)	6	98
SG2	11lbs (5kg)	14 (36)	11.5 (29)	8 (20)	2	64

### Accessories and Services

<b>Comfort Lens</b>  <p>Acrylic comfort lens provides glare control, improved visual comfort and better uniformity</p>	<b>Visor</b>  <p>Visor accessory included with mounting accessory kits</p>	<b>Mounting Options</b>  <p>Flood mounting accessories - 1/2" threaded knuckle or yoke (includes grommet and 3' SO cord)</p>	<b>Photocontrol</b>  <p>Photocontrol option available for energy-saving dusk-to-dawn operation</p>	<b>Hinged Housing Door</b>  <p>Side hinged for easy installation and wiring access, single screw secures housing closure</p>
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### Features

<b>Emergency Mode (EH)</b>  <p>Battery back up feature with side indicator.</p> <p>Exceeds Life Safety Code average illuminance of 1.0 fc. at 12' mounting height. Assumes open space with no obstructions. Battery backup units consume 6W when charging a dead battery and 2W during maintenance charging. EH (units with a heater) consume up to an additional 8W when charging if the battery temp is lower than 10°C</p> <p>Diagrams for illustration purposes only, please consult factory for application layout.</p>	<b>Wireless and Occupancy Controls</b>  <p>SiteSync™ Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.</p>
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# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## FEATURES

- Compact sleek design with multiple LED configurations and simple installation
- The Airo includes a universal mounting block for easy pole installation or mast arm option for 2-3/8 ft OD roadway brackets
- Capable of replacing up to 1000w HID luminaires
- Micro Strike optical distributions of Type 2, 3, 4W or 5QW
- Tool-less entry option for easy installation and maintenance
- 1.5G rated for high vibration applications including bridges and overpasses



## CONTROL TECHNOLOGY



## SPECIFICATIONS

### CONSTRUCTION

- Die-cast housing with hidden vertical heat fins that are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Separate optical and electrical compartment for improved thermal management and optimum component operation
- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

### OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- Premium engineered individual acrylic lenses deliver IES Type 2, 3, 4W and 5QW distributions
- Lens distributions are field rotatable (in 90° increments) or exchangeable for job site fine-tuning
- 3000K, 4000K, or 5000K (70 CRI) CCT
- 80, 160, or 320 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

### INSTALLATION

- Tool-less entry to wiring/driver compartment optional
- Universal mounting block works with #2 drill pattern
- Fixture ships with slotted mounting block to accommodate wide range of drill patterns for easy retrofit opportunities

### INSTALLATION (CONTINUED)

- Mast arm fitter accessory or option available for 2-3/8" OD brackets with vertical tilt of +3°, 0° or -3°

### ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Field replaceable surge protection device provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is consumed

### CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- Dimming Drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than the 6
- SiteSync™ wireless control system is available via 7-pin See ordering information and details at: [www.hubbellighting.com/sitesync](http://www.hubbellighting.com/sitesync)
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor



### RELATED PRODUCTS

- [RAR1 Ratio](#)
[RAR2 Ratio](#)
[Cimarron LED](#)

### CONTROLS (CONTINUED)

- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor via 7-pin
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application

### CERTIFICATIONS

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 1.5G rated for ANSI C136.31 high vibration applications
- IP65 optical assembly
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective 04/23/2020. See [Buy American Solutions](#)

### WARRANTY

- 5 Year warranty
- See [HLI Standard Warranty](#) for additional information

KEY DATA	
Lumen Range	6,000–36,000
Wattage Range	25–225
Efficacy Range (LPW)	118–148
Weight lbs. (kg)	14.5–17.5 (6.6–8.0)

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ORDERING GUIDE

Example: ASL1-80L-25-3K7-2-UNV-ASQU-SWP-F-BLT

CATALOG #

## ORDERING INFORMATION

Series	# LEDs	CCT/CRI	Distribution	Rotation/Orientation	Voltage	Mounting
ASL1 ASL Microstrike Series	80L-25 3,000 lm	3K7 3000K, 70 CRI	2 Type II	L Optic rotation left	UNV Universal 120-277V	ASQU Arm Square w/ Universal Mount
	80L-39 4,500 lm	4K7 4000K, 70 CRI	3 Type III	R Optic rotation right	120 120V	A3 AS with 3.5-4.13" OD RPA3 & UM
	80L-50 6,000 lm	5K7 5000K, 70 CRI	4W Type 4W		208 208V	A4 AS with 4.18-5.25" OD RPA4 & U
	160L-70 9,000 lm		5QW Type 5QW		240 240V	A5 AS with 5.5-6.5" OD RPA5 & UM
	160L-100 12,000 lm				277 277V	MAF Mast Arm Fitter for 2-3/8" OD
	160L-115 15,000 lm				347 347V	
	160L-135 18,000 lm				480 480V	
ASL2 ASL Microstrike Series	320L-145 21,000 lm					
	320L-170 24,000 lm					
	320L-185 27,000 lm					
	320L-210 30,000 lm					
	320L-235 33,000 lm					
	320L-255 35,000 lm					

Control Options Network	Options	Color
SWP <sup>1,2</sup> SiteSync pre-commissioned	F <sup>3</sup> Fusing	BLT Black Matte Textured
SWPM <sup>1,2</sup> SiteSync wireless pre-commissioned w/ motion detection	BC Backlight Control	BLS Black Gloss Smooth
NXSPW14F <sup>1</sup> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)	TB <sup>4</sup> Terminal Block	DBT Dark Bronze Matte Textured
NXSPW30F <sup>1</sup> NX Wireless, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)	TE Toolless Entry	DBS Dark Bronze Gloss Smooth
NXSP14F <sup>1</sup> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 14' (use white for WH, black for DB, GT, TT, gray for LG, PS)	SSF Stainless Steel Fasteners	GTT Graphite Matte Textured
NXSP30F <sup>1</sup> NX, PIR Occupancy Sensor, Dimming Daylight Harvesting, 30' (use white for WH, black for DB, GT, TT, gray for LG, PS)		LGS Light Grey Gloss Smooth
NXWE <sup>1</sup> NX Wireless Enabled (module + radio)		LGT Light Grey Matte Textured
Stand Alone Sensors		PSS Platinum Silver Smooth
SCP-8F Remote control programmable line voltage sensor		WHT White Matte Textured
SCP-40F Remote control programmable line voltage sensor		WHS White Gloss Smooth
Control Options Other		VGT Verde Green Textured
7PR 7 Pin Receptacle		<b>Color Option</b>
7PR-SC 7 Pin Receptacle with shorting cap		CC Custom Color
7PR-MD8F 7 pin receptacle with low voltage sensor at 8' mounting for external control accessory		
7PR-MD40F 7 pin receptacle with low voltage sensor at 40' mounting for external control accessory		
7PR-TL 7 Pin Receptacle with Photocontrol		

Notes:

- 1 Not compatible with 80L configurations
- 2 Not compatible with 480V configurations
- 3 Must specify voltage
- 4 Not available with a combination or 347/480 and fusing

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## CONTROL ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> SCP-Remote	Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor
<input type="checkbox"/> SWUSB	SiteSync™ Software on USB
<input type="checkbox"/> SWTAB	SiteSync™ Windows Tablet
<input type="checkbox"/> SWBRG	SiteSync™ Wireless Bridge Node
<input type="checkbox"/> SWFC	SiteSync™ Field Commission Serve
<input type="checkbox"/> SW7PR	SiteSync™ on fixture module via 7PR
<input type="checkbox"/> WIR-RME-L	wiSCAPE External Fixture Module
<input type="checkbox"/> NXOFM-1R1D-UNV	NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock

Notes:

- \* When ordering SiteSync at least one of these two interface options must be ordered per project
- + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle

## ACCESSORIES (ORDERED SEPARATELY)

Catalog Number	Description
<input type="checkbox"/> ASL1-HSS-90-B-XXX <sup>1</sup>	House Side Shield Back 90 deg
<input type="checkbox"/> ASL1-HSS-90-F-XXX <sup>1</sup>	House Side Shield Front 90 deg
<input type="checkbox"/> ASL1-HSS-90-S-XXX <sup>1</sup>	House Side Shield Side 90 deg
<input type="checkbox"/> ASL1-HSS-270-BSS-XXX <sup>1</sup>	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSS-XXX <sup>1</sup>	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL1-HSS-270-FSB-XXX <sup>1</sup>	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> ASL1-HSS-360-XXX <sup>1</sup>	House Side Shield 360 deg
<input type="checkbox"/> ASL2-HSS-90-B-XXX <sup>1</sup>	House Side Shield Back 90 deg
<input type="checkbox"/> ASL2-HSS-90-F-XXX <sup>1</sup>	House Side Shield Front 90 deg
<input type="checkbox"/> ASL2-HSS-90-S-XXX <sup>1</sup>	House Side Shield Side 90 deg
<input type="checkbox"/> ASL2-HSS-270-BSS-XXX <sup>1</sup>	House Side Shield Back, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSS-XXX <sup>1</sup>	House Side Shield Front, Side & Side 270 deg
<input type="checkbox"/> ASL2-HSS-270-FSB-XXX <sup>1</sup>	House Side Shield Front, Side & Back 270 deg
<input type="checkbox"/> ASL2-HSS-360-XXX <sup>1</sup>	House Side Shield 360 deg
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms
<input type="checkbox"/> SETA2-XX <sup>1</sup>	Square pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon)
<input type="checkbox"/> RETA2-XX <sup>1</sup>	Round pole tenon adapter (4 at 90 degrees) (2 3/8" OD tenon), requires CL1S-RPA4-ACC-XX for each luminaire
<input type="checkbox"/> RARBC80L	Backlight Control 80L
<input type="checkbox"/> RARBC160L	Backlight Control 160L
<input type="checkbox"/> RARBC320L	Backlight Control 320L
<input type="checkbox"/> RARBC480L	Backlight Control 480L
<input type="checkbox"/> CL1S-RPA4-ACC-XX <sup>1</sup>	Round Pole Adapter (* denotes pole diameter; 3 = 3 1/4" - 3 3/4"; 4* = 3 7/8" - 6")
<input type="checkbox"/> ASL-ARMMTG-XX <sup>1</sup>	Arm mounting kit for side of pole attachment
<input type="checkbox"/> WB-AREA-XX <sup>1</sup>	Wall bracket, Compatible with standard arm mount option
<input type="checkbox"/> ASL-MAF	Mast arm kit with wildlife shield for mounting on 2 3/8" OD arms

<sup>1</sup> Replace XX or XXX with color choice, eg.: DB for Dark Bronze or BLT for Black Matte Textured



# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW¹	B	U	G	Lumens	LPW¹	B	U	G	Lumens	LPW¹	B	U	G
ASL1	25	25.4	2	3430	135	2	0	2	3413	134	2	0	2	3225	127	2	0	2
			3	3465	136	2	0	2	3448	136	2	0	2	3259	128	2	0	2
			4W	3401	134	2	0	3	3384	133	2	0	3	3198	126	2	0	3
			5QW	3483	137	4	0	2	3466	136	4	0	2	3274	129	4	0	2
	40	38.0	2	5237	138	3	0	3	5211	137	3	0	3	4924	130	3	0	3
			3	5292	139	2	0	2	5265	139	2	0	2	4976	131	2	0	2
			4W	5193	137	2	0	3	5168	136	2	0	3	4883	129	2	0	3
			5QW	5318	140	4	0	2	5292	139	4	0	2	4999	132	4	0	2
	50	49.7	2	6294	127	2	0	2	6263	126	2	0	2	5918	119	2	0	2
			3	6360	128	2	0	2	6328	127	2	0	2	5980	120	2	0	2
			4W	6242	126	2	0	3	6211	125	2	0	3	5869	118	2	0	3
			5QW	6392	129	4	0	2	6360	128	4	0	2	6008	121	4	0	2
	70	68.4	2	9461	138	3	0	3	9414	138	3	0	3	8897	130	3	0	3
			3	9560	140	2	0	2	9513	139	2	0	2	8989	131	2	0	2
			4W	9383	137	2	0	3	9336	136	2	0	3	8822	129	2	0	3
			5QW	9608	140	4	0	2	9560	140	4	0	2	9032	132	4	0	2
	100	88.0	2	11945	136	2	0	2	11886	135	2	0	2	11232	128	2	0	2
			3	12070	137	2	0	2	12010	136	2	0	2	11349	129	2	0	2
			4W	11846	135	2	0	3	11787	134	2	0	3	11139	127	2	0	3
			5QW	12131	138	4	0	2	12070	137	4	0	2	11403	130	4	0	2
	115	109.7	2	15683	143	2	0	2	15605	142	2	0	2	14977	137	2	0	2
			3	15486	141	2	0	2	15411	140	2	0	2	14819	135	2	0	2
			4W	15305	140	2	0	3	15232	139	2	0	3	14646	134	2	0	3
			5QW	15732	143	4	0	2	15653	143	4	0	2	15024	137	4	0	2
	135	133.3	2	18089	136	3	0	3	17999	135	3	0	3	17275	130	3	0	3
			3	17861	134	2	0	2	17776	133	2	0	2	17092	128	2	0	2
			4W	17653	132	2	0	3	17569	132	2	0	3	16893	127	2	0	3
			5QW	18155	136	4	0	2	18064	136	4	0	2	17338	130	4	0	2
ASL2 Performance Data on next page																		

<sup>1</sup> VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PERFORMANCE DATA

Description	Nominal Wattage	System Watts	Dist. Type	5K (5000K NOMINAL 70 CRI)					4K (4000K NOMINAL 70 CRI)					3K (3000K NOMINAL 80 CRI)				
				Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G	Lumens	LPW <sup>1</sup>	B	U	G
ASL2	145	143.0	2	21007	147	3	0	4	20902	146	3	0	4	20061	140	3	0	4
			3	20842	146	3	0	4	20738	145	3	0	4	19904	139	3	0	4
			4W	20595	144	3	0	5	20492	143	3	0	5	19668	138	3	0	5
			5QW	21130	148	5	0	4	21024	147	5	0	4	20179	141	5	0	4
	170	168.0	2	24447	146	3	0	4	24325	145	3	0	4	23347	139	3	0	4
			3	24256	144	3	0	4	24134	144	3	0	4	23164	138	3	0	4
			4W	23968	143	3	0	5	23848	142	3	0	5	22889	136	3	0	5
			5QW	24591	146	5	0	4	24468	146	5	0	4	23484	140	5	0	4
	185	185.0	2	26651	144	4	0	5	26518	143	4	0	5	25452	138	4	0	5
			3	26442	143	3	0	4	26310	142	3	0	4	25252	136	3	0	4
			4W	26129	141	4	0	5	25998	141	4	0	5	24953	135	4	0	5
			5QW	26808	145	5	0	5	26674	144	5	0	5	25602	138	5	0	5
	210	210.0	2	29880	142	3	0	4	29731	142	3	0	4	28535	136	3	0	4
			3	29646	141	3	0	4	29497	140	3	0	4	28312	135	3	0	4
			4W	29294	139	3	0	5	29148	139	3	0	5	27976	133	3	0	5
			5QW	30056	143	5	0	4	29905	142	5	0	4	28703	137	5	0	4
	235	235.0	2	32959	140	3	0	4	32794	140	3	0	4	31475	134	3	0	4
			3	32700	139	3	0	4	32537	138	3	0	4	31229	133	3	0	4
			4W	32312	137	3	0	5	32151	137	3	0	5	30858	131	3	0	5
			5QW	33152	141	5	0	4	32987	140	5	0	4	31661	135	5	0	4
	255	261.2	2	36218	139	4	0	5	36037	138	4	0	5	34588	132	4	0	5
			3	35934	138	3	0	4	35754	137	3	0	4	34317	131	3	0	4
			4W	35508	136	4	0	5	35330	135	4	0	5	33910	130	4	0	5
			5QW	36431	139	5	0	5	36249	139	5	0	5	34792	133	5	0	5

<sup>1</sup> VAC input Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations. Actual performance may differ as a result of end-user environment and application.

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ELECTRICAL DATA

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL1)	25	120	0.21	25.4
		208	0.12	
		240	0.11	
		277	0.09	
		347	0.07	
		480	0.05	
	40	120	0.32	38
		208	0.18	
		240	0.16	
		277	0.14	
		347	0.11	
		480	0.08	
	50	120	0.41	49.7
		208	0.24	
		240	0.21	
		277	0.18	
		347	0.14	
		480	0.10	
	70	120	0.57	68.4
		208	0.33	
		240	0.29	
		277	0.25	
		347	0.20	
		480	0.14	
	100	120	0.73	88
		208	0.42	
		240	0.37	
		277	0.32	
		347	0.25	
		480	0.18	
	115	120	0.91	109.7
		208	0.53	
		240	0.46	
		277	0.40	
		347	0.32	
		480	0.23	
	135	120	1.11	133.3
		208	0.64	
		240	0.56	
		277	0.48	
		347	0.38	
		480	0.28	
AIRO (ASL2) Next Page				

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## ELECTRICAL DATA (CONT'D)

Family	Nominal Wattage	Input Voltage (Volts)	Current (AMPS)	System Power (Watts)
AIRO (ASL2)	145	120	1.19	143.0
		208	0.69	
		240	0.60	
		277	0.52	
		347	0.41	
		480	0.30	
	170	120	1.40	168.0
		208	0.81	
		240	0.70	
		277	0.61	
		347	0.48	
		480	0.35	
	185	120	1.54	185.0
		208	0.89	
		240	0.77	
		277	0.67	
		347	0.53	
		480	0.39	
	210	120	1.75	210.0
		208	1.01	
		240	0.88	
		277	0.76	
		347	0.61	
		480	0.44	
	235	120	1.96	235.0
		208	1.13	
		240	0.98	
		277	0.85	
		347	0.68	
		480	0.49	
	255	120	2.18	261.2
		208	1.26	
		240	1.09	
		277	0.94	
		347	0.75	
		480	0.54	

# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

## PROJECTED LUMEN MAINTENANCE

Ambient Temperature	OPERATING HOURS					
	0	25,000	TM-21-11' L96 60,000	50,000	100,000	L70 (Hours)
25°C / 77°F	1.00	0.97	0.96	0.95	0.91	408,000
40°C / 104°F	0.99	0.96	0.95	0.94	0.89	356,000

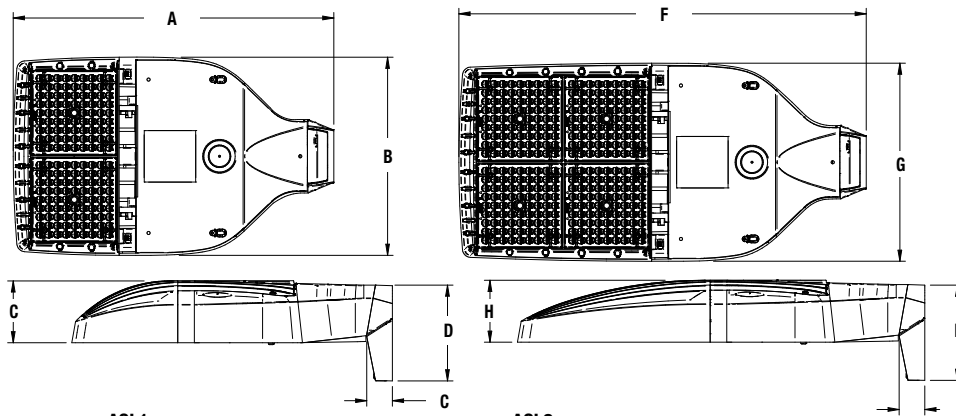
1. Projected per IESNA TM-21-11 (\* Cree XP-L, 2100mA, 105°C Ts, 6,000hrs)

## LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

Ambient Temperature		Lumen Multiplier
0° C	32° F	1.06
10° C	50° F	1.03
20° C	68° F	1.01
25° C	77° F	1.00
30° C	86° F	0.99
40° C	104° F	0.97
50° C	122° F	0.94

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

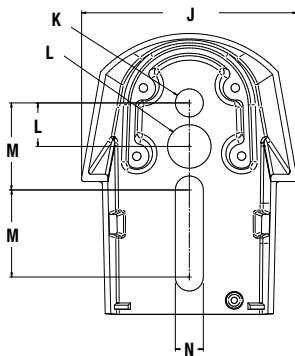
## DIMENSIONS



Weight

ASL1	14.47 lbs (6.56 kgs)
ASL2	17.47 lbs (7.92 kgs)

A	B	C	D	E	F	G	H	I	ASL1 EPA@0°	ASL2 EPA@0°	ASL1 w/ HSS	ASL2 w/ HSS
18.9"	11.7"	3.7"	5.65"	1.5"	24.0"	11.7"	3.7"	5.62"	.46 ft. <sup>2</sup>	.56 ft. <sup>2</sup>	.73 ft. <sup>2</sup>	1.01 ft. <sup>2</sup>
480mm	297mm	94mm	144mm	38mm	610mm	297mm	94mm	143mm	.14 m <sup>2</sup>	.17 m <sup>2</sup>	.22 m <sup>2</sup>	.31 m <sup>2</sup>



J	K	L	M	N
4.33"	.562"	.875"	1.75"	.562"
480mm	297mm	94mm	610mm	297mm

## PHOTOMETRY

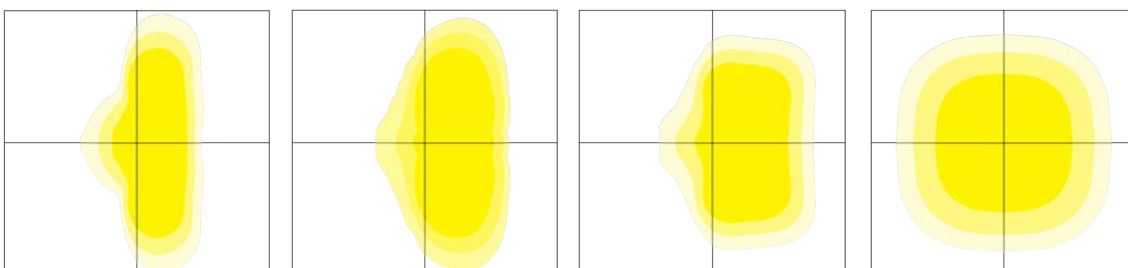
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

Type II

Type III

Type IV

Type V





# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

## ADDITIONAL INFORMATION (CONT'D)

### OCCUPANCY SENSOR

- Individual fixture control
- Dims product when space is not occupied



### 7-PIN RECEPTACLE

- Compatible with 3-pin, 5-pin or 7-pin photocontrols
  - Turns fixture on when sun sets, off when sun rises
  - Wireless networked solution
  - For use with a variety of control platforms
- \*Additional accessories required.



### NX

## NX DISTRIBUTED INTELLIGENCE™

Hubbell Controls Solutions' NX Distributed Intelligence™ platform delivers a lighting control solution capable of seamlessly connecting exterior and interior applications.

- Standalone or networked fixture control
- Astronomical time schedules
- BACnet building networking
- Connects with indoor wired, wireless or hybrid networks
- Wireless setup via app
- Occupancy Sensor option dims product when space is not occupied



### SITESYNC LIGHTING CONTROL



SiteSync Lighting Control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution.

- Pre-commissioning options available
- Standalone or networked fixture control
- Astronomical time schedules
- Occupancy Sensor option dims product when space is not occupied



# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

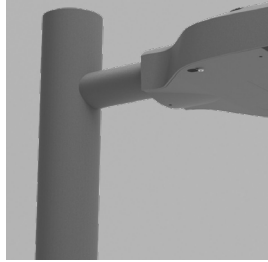
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TYPE:	PROJECT:
CATALOG #:	

## ADDITIONAL INFORMATION (CONT'D)

### MOUNTING



**Arm Mount** – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor S2 drill pattern.

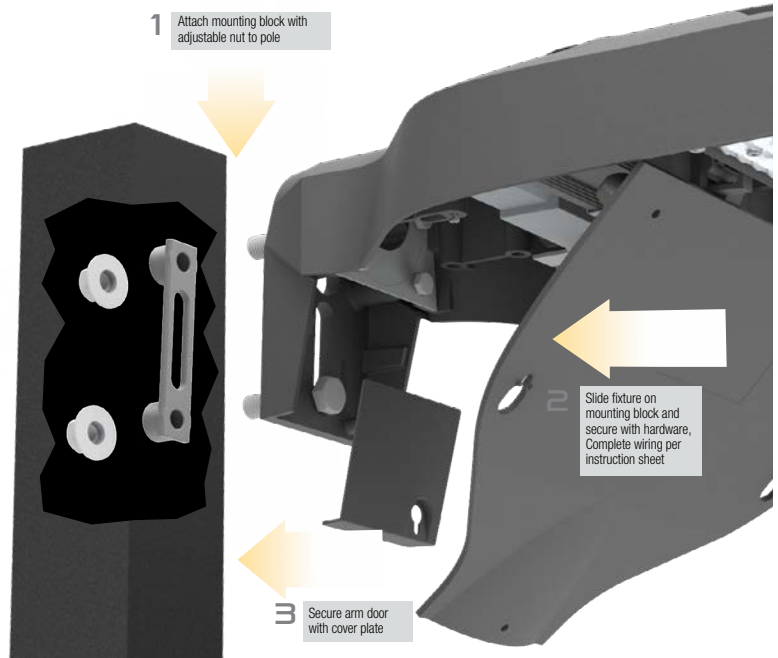


**MAF** – Fits 2-3/8" OD arms Roadway applications.

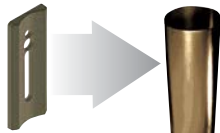


**Wall Mount** – Wall mount bracket designed for building mount applications.

**Universal Mount** – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"



### ACCESSORY



ROUND POLE ADAPTER



WB-AREA-XX



**SPOKE BRACKET** (single arm shown)  
Horizontal round arm tenon adapters for use with MAF mounting type or accessory kit. Reference SH Spoke Pole Top Brackets for ordering information.

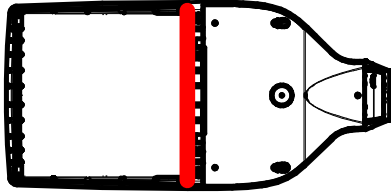
# AIRO Micro Strike

AREA/SITE/ROAD LIGHTER

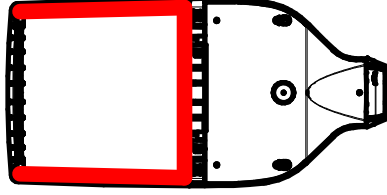
## ADDITIONAL INFORMATION (CONT'D)

### CONFIGURATIONS

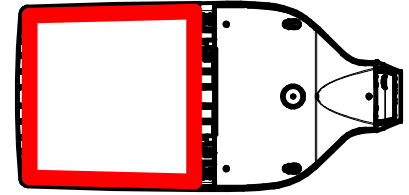
ASLx HSS-90-B-xx



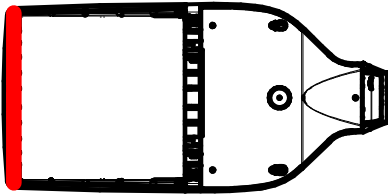
ASLx HSS-270-BSS-xx



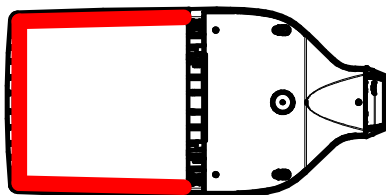
ASLx HSS-360-xx



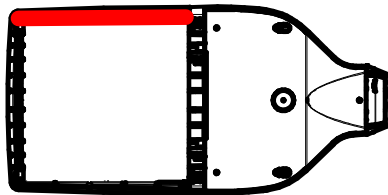
ASLx HSS-90-F-xx



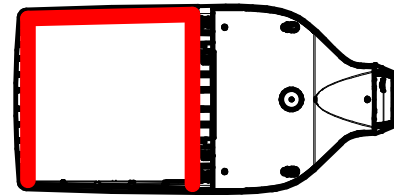
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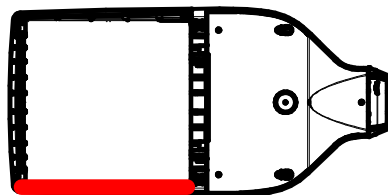
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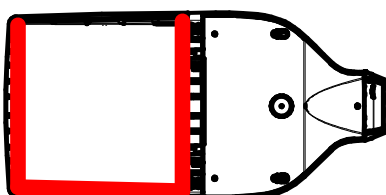
ASLx HSS-270-FSB-xx



ASLx HSS-90-S-xx



ASLx HSS-270-FSB-xx



## USE OF TRADEMARKS AND TRADE NAMES

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97 ELEVATION FRONT, SOUTH  
A201  
1/8" = 1'-0"



97 ELEVATION REAR, NORTH  
A201  
1/8" = 1'-0"

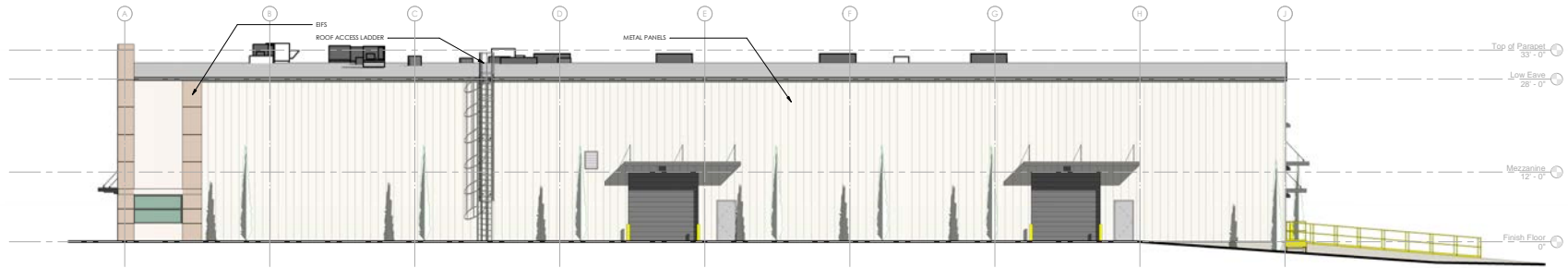
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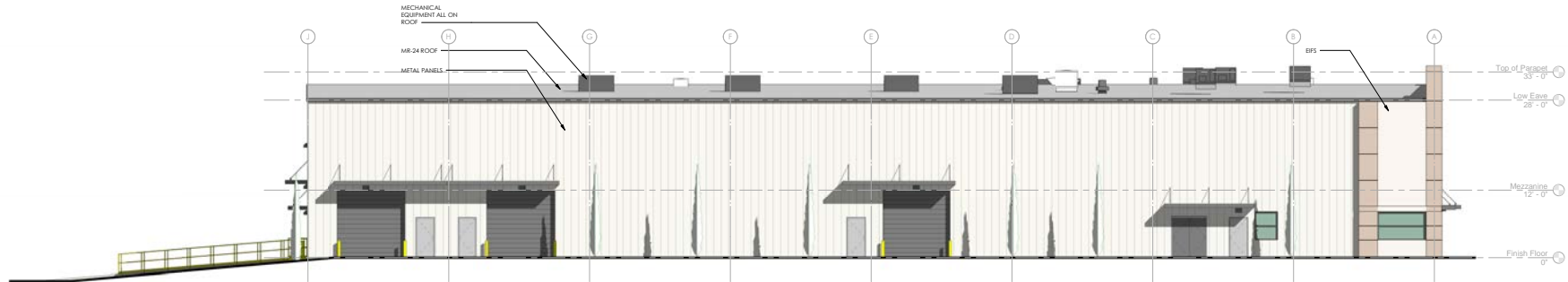
Project Name

115 CEDARLANE  
CHATTANOOGA, TN 37421  
**MPL**  
CONSTRUCTION & ARCHITECTURE  
PHONE: 423-899-7737  
www.mplconstruction.com

Project Number	
Date	03/02/2021
Sheet Name	ELEVATIONS NORTH & SOUTH
Sheet Number	A201



07 ELEVATION SIDE, EAST  
1/8" = 1'-0"



08 ELEVATION SIDE, WEST  
1/8" = 1'-0"

NO.	DESCRIPTION	DATE
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2	REVISED	
3		
4		
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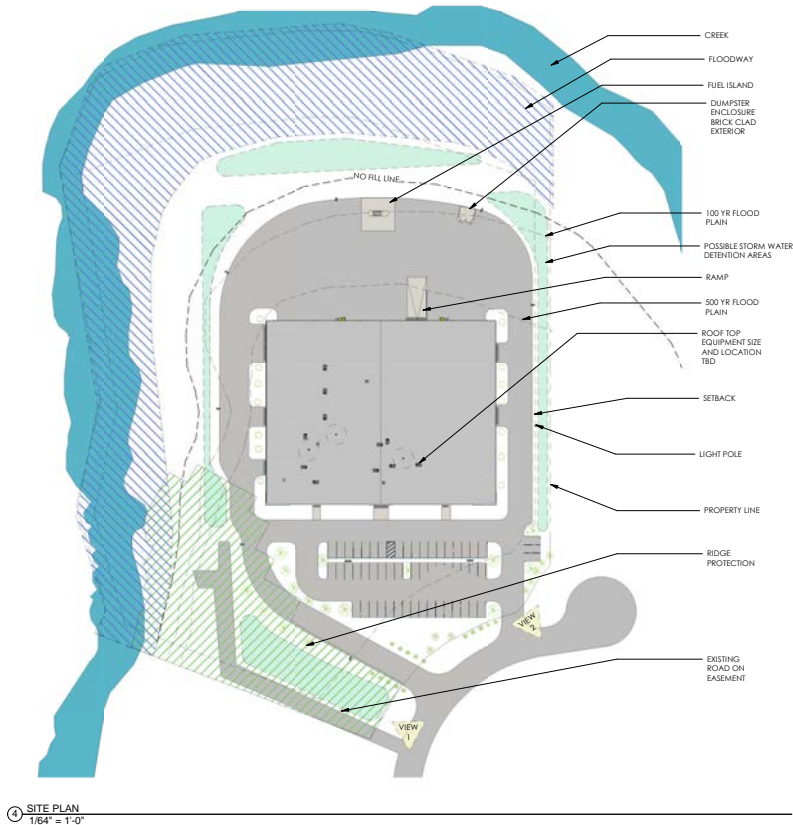
Project Name

115 CEDAR LANE  
CHATTANOOGA, TN 37421  
PHONE: 423-899-7737  
www.mplconstruction.com  
**MPL**  
CONSTRUCTION & ARCHITECTURE

Project Number	
Date	03/02/2021
Sheet Name	ELEVATIONS EAST & WEST
Sheet Number	A202



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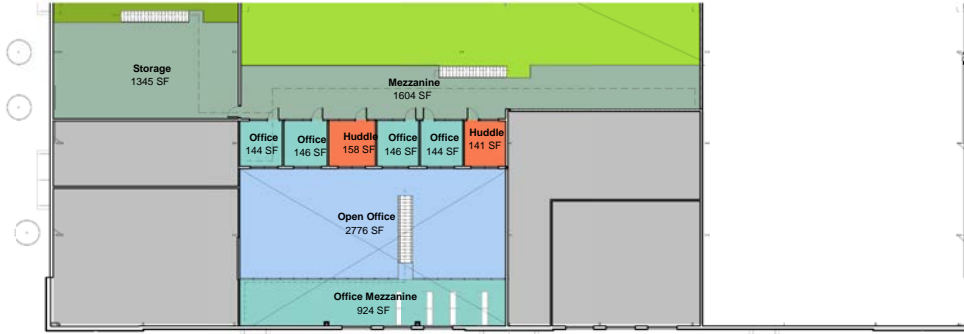
NO.	REVISIONS	DESCRIPTION	DATE

Project Name  
**SERVPRO**  
**Horseshoe Bend**  
**Knoxville, TN**

**MPL**  
CONSTRUCTION & ARCHITECTURE  
115 CEDAR LANE  
CHATTANOOGA, TN 37421  
PHONE: 423-899-7737  
FAX: 423-899-7738

Project Number	
Date	03/02/2021
Sheet Name	
SITE	
Sheet Number	A1

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2 MEZZANINE FLOOR PLAN



1 FLOOR PLAN

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NO.	REVISIONS	DESCRIPTION	DATE

SERVPRO  
Horseshoe Bend  
Knoxville, TN

Project Name

115 CEDAR LANE  
CHATTANOOGA, TN 37421  
PHONE: 423-899-7737  
FAX: 423-899-7738

**MPL**  
CONSTRUCTION & ARCHITECTURE

Project Number

Date  
03/02/2021

Sheet Name

FLOOR PLAN  
COLOR

Sheet Number

A2



# CERTIFICATE OF APPROPRIATENESS

Name of Applicant: Jeff Cuthbertson  
Date Filed: 1/29/2021 Fee Paid: \$400 File Number: 3-B-21-TOB  
Map Number: 089 Zoning District: BP/TO  
Jurisdiction: ☐ City \_\_\_\_\_ Councilmanic District ☒ County 6th Commission District

## PROPERTY INFORMATION

ADDRESS: 3049 and 0 Horseshoe Bend Lane Knoxville, TN 37931  
STREET NUMBER AND NAME

GENERAL LOCATION: On the northwest side of Horseshoe Bend Ln near the cul-de-sac; east of Pellissippi Parkway

PARCEL NUMBER(S): 089 22207 & 089 22208

SIZE OF TRACT: 7.99 acres ☒ ACRES ☐ SQUARE FEET

## PURPOSE OF REQUEST

- ☒ BUILDING PERMIT — New Construction  
☐ BUILDING PERMIT — Expansion or Renovation  
☐ BUILDING PERMIT — Grading Plan  
☐ REZONING
- From: \_\_\_\_\_  
To: \_\_\_\_\_
- ☐ SIGNAGE  
☐ ZONING VARIANCE — (Describe and give reason)

NOTE: Four (4) copies of all plan materials are required to process the application. Please check all that apply:

- ☐ DEVELOPMENT PLAN  
☒ BUILDING ELEVATIONS  
☒ FLOOR PLAN  
☒ LANDSCAPE PLAN WITH SCHEDULE  
☐ SIGNAGE PLAN  
☒ OFF-STREET PARKING PLAN  
☐ OTHER:

## APPLICATION CORRESPONDENCE — All correspondence relating to this application should be sent to:

PLEASE PRINT

Name: Stephen Collins Phone: 423-899-7737 Fax: 423-899-7738  
Mailing Address: 115 Cedar Land Chattanooga, TN 37421

## APPLICATION AUTHORIZATION — I hereby certify that I am the authorized applicant, representing ALL property owners involved in this request or holders of option on same, whose signatures are included on the back of this form.

PLEASE PRINT  
Signature: Jeffrey T. Cuthbertson  
Name: Jeffrey T. Cuthbertson Phone: 423-463-5109 Fax: \_\_\_\_\_  
Mailing Address: 9028 Jetrail Drive Ooltewah, TN 3736

## APPLICATION ACCEPTANCE — Staff Member who accepted this application:

Michele Foster

**SIGNATURES OF ALL PROPERTY OWNERS INVOLVED OR HOLDERS OF OPTION ON SAME MUST BE LISTED BELOW:**

(Please sign in black or blue ink)

[illegible]



MPL Construction & Architecture  
115 Cedar Lane  
Chattanooga, TN 37421  
423-899-7737  
mplconstruction.com

January 29, 2021

Application Narrative TTCDA  
Tax Map # 089 22207 & 089 22208  
3409 Horseshoe Bend Lane  
Knoxville, TN 37931

TTCDA Board,

SERVPRO is currently negotiating the purchase of land at 3409 Horseshoe Bend Lane in Knox County, TN. Part of the negotiation is reliant on TTCDA approval of the building and site design. The building footprint is roughly 50,400sf with an additional 4,500sf of mezzanine space. The site is 7.99 acres.

SERVPRO is a leader in the property damage restoration industry providing the following residential and commercial services:

- Water Damage Restoration
- Fire Damage Restoration
- Mold Remediation
- Storm Damage Restoration
- Cleaning Services

In Knoxville, SERVPRO currently has approximately 20 employees, but that number will increase to 35 quickly. Eventually if/when SERVPRO occupies the entire building it will be 50-60 people within the next two years. The only current shift is Monday-Friday from 8 AM – 5 PM, with on-call personnel responding to jobs outside business hours. The total trips will not exceed 750 per day for this site.

The building will hold equipment related to the business of remediation and restoration. Inside, SERVPRO will clean and sort and store possessions from damaged properties. The building will function as an Office/Warehouse.

The building is designed with a front elevation cladded in EIFS (Exterior Insulation Finishing System) including a parapet to hide the proposed rooftop HVAC units. The remaining elevations, not visible from the street, will be predominately cladded with metal panels. The front elevation faces South towards Horseshoe Band Lane. The other sides (West, North, East) all face a bend in Beaver Creek. The area near the creek is wooded, and in the no-fill zone. The West side of the building is over 600 feet from Pellissippi Parkway and is not visible from the road, it is obscured by trees and vegetation. The area in-between is not developable.



Included with this application are:

- Building Elevations
- Floor Plans
- Landscape Plan with Schedule
- Off Street Parking Plan
- 3D renderings

Thank you for your time and consideration.

A handwritten signature in blue ink, appearing to read "Stephen Collins", written in a cursive style.

Stephen Collins, RA

scollins@mplconstruction.com