

ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

GENERAL NOTES

- A THIS ELECTRICAL UTILITIES SITE PLAN IS FOR REFERENCE ONLY. NO CONSTRUCTION IS TO BEGIN UNTIL FINAL UTILITY COMPANY PLANS ARE RECEIVED. UTILITY COMPANY DESIGN IS NOT AVAILABLE AT THIS TIME. ADDITIONAL WORK WILL BE REQUIRED.
- B ALL WORK SHALL BE PER UTILITY COMPANY CONSTRUCTION STANDARDS AND SPECIFICATIONS. PROVIDE CONDUIT SPACERS THROUGHOUT AND CONCRETE ENCASEMENT WHERE FEEDERS PASS UNDER DRIVEWAYS AND OR PARKING LOTS.
- ALL TRANSFORMER BOXES, METER PANELS, ELECTRICAL EQUIPMENT AND MISCELLANEOUS UTILITY EQUIPMENT SHALL BE PAINTED TO MATCH ADJACENT BUILDING COLORS WHERE SCREENING IS NOT APPLICABLE. COORDINATE WITH UTILITY PRIOR TO PAINTING.
- SEE SHEET E0.1 GENERAL NOTES FOR ADDITIONAL UTILITY
- COORDINATION NOTES.
 ALL EXTERNAL LIGHTING SHALL BE LOCATED AND
- DESIGNED TO PREVENT RAYS FROM BEING DIRECTED OFF OF THE PROPERTY UPON WHICH THE LIGHTING IS LOCATED.

 THE CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROLLER AS PER THE LIGHTING DIAGRAM PRIOR TO

CALLING THE CITY FOR THE INSPECTION.

THE CONTRACTOR IS TO SCHEDULE A NIGHT TIME
INSPECTION OF THE ENERGIZED LIGHTING, TO ATTEND THIS
INSPECTION AND TO CORRECT ALL ITEMS IDENTIFIED
DURING INSPECTION PRIOR TO ISSUING THE FINAL
CERTIFICATE OF OCCUPANCY.

KEYED NOTES ①

- PROPOSED LOCATION OF UTILITY TRANSFORMER. ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY COMPANY FOR EXACT REQUIREMENTS AND LOCATION. MAINTAIN MINIMUM CLEARANCE IN FRONT, SIDES AND BACK OF UTILITY TRANSFORMER PER UTILITY REQUIREMENTS.
- 2 PROVIDE SECONDARY CONDUIT WITH MULETAPE FROM NEW UTILITY COMPANY TRANSFORMER TO S.E.S. UTILITY PULL SECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT QUANTITY, ROUTING AND REQUIREMENTS. TRENCHING AND BACKFILL BY ELECTRICAL CONTRACTOR AS REQUIRED BY THE UTILITY. VERIFY EXACT ROUTING, DISTANCE AND P.O.C. WITH UTILITY PRIOR TO DIGGING.
- 3 PROVIDE WEATHER PROOF J-BOX AT GATE FOR CARD READER. VERIFY MOUNTING AND LOCATION WITH OWNER PRIOR TO INSTALLATION.
- PROVIDE (2) 4" UG CONDUITS STUB-UPS WITH PULL STRING FOR FUTURE PHASE 2 ADDITION, FROM SES TO FUTURE BUILDING ELECTRICAL ROOM LOCATION. VERIFY EXACT ROUTING, DISTANCE, AND STUB-UP WITH OWNER PRIOR TO DIGGING.
- PROVIDE WP J-BOX FOR MONUMENT SIGN LIGHTING.
 COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
 ROUTE LIGHTING HOME RUN THROUGH LIGHTING CONTROL
- PANEL OR TIME CLOCK AS REQUIRED FOR CONTROL.

 7 PROVIDE (2) 4" CONDUIT WITH PULLWIRE TO TELCO/CATV POINT OF CONNECTION. COORDINATE WITH UTILITY COMPANY FOR EXACT ROUTING AND REQUIREMENTS. PROVIDE PULL BOXES AS REQUIRED.

ALL 4-7 WORKING DAYS

1-800-922-1987

Submit drawings to Utility Company representative as

reguired in the General Notes included in the Electrical







carhuff+cueva architects, IIc

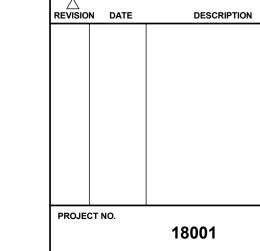
3149 e prince rd #151 tucson, arizona 85716 phone 520.577.4560 www.cca-az.com

NEW SCHOOL CAMPUS FOR:

LIBERTY TREE ACADEMY

8579 EASTONVILLE RD, PEYTON, CO 80831

CONSTRUCTION DOCUMENTS



DATE BAAY 9 20

MAY 8, 2018

As indicated
RAWING TITLE

ELECTRICAL SITE PLAN

NUMBER **E1.1**

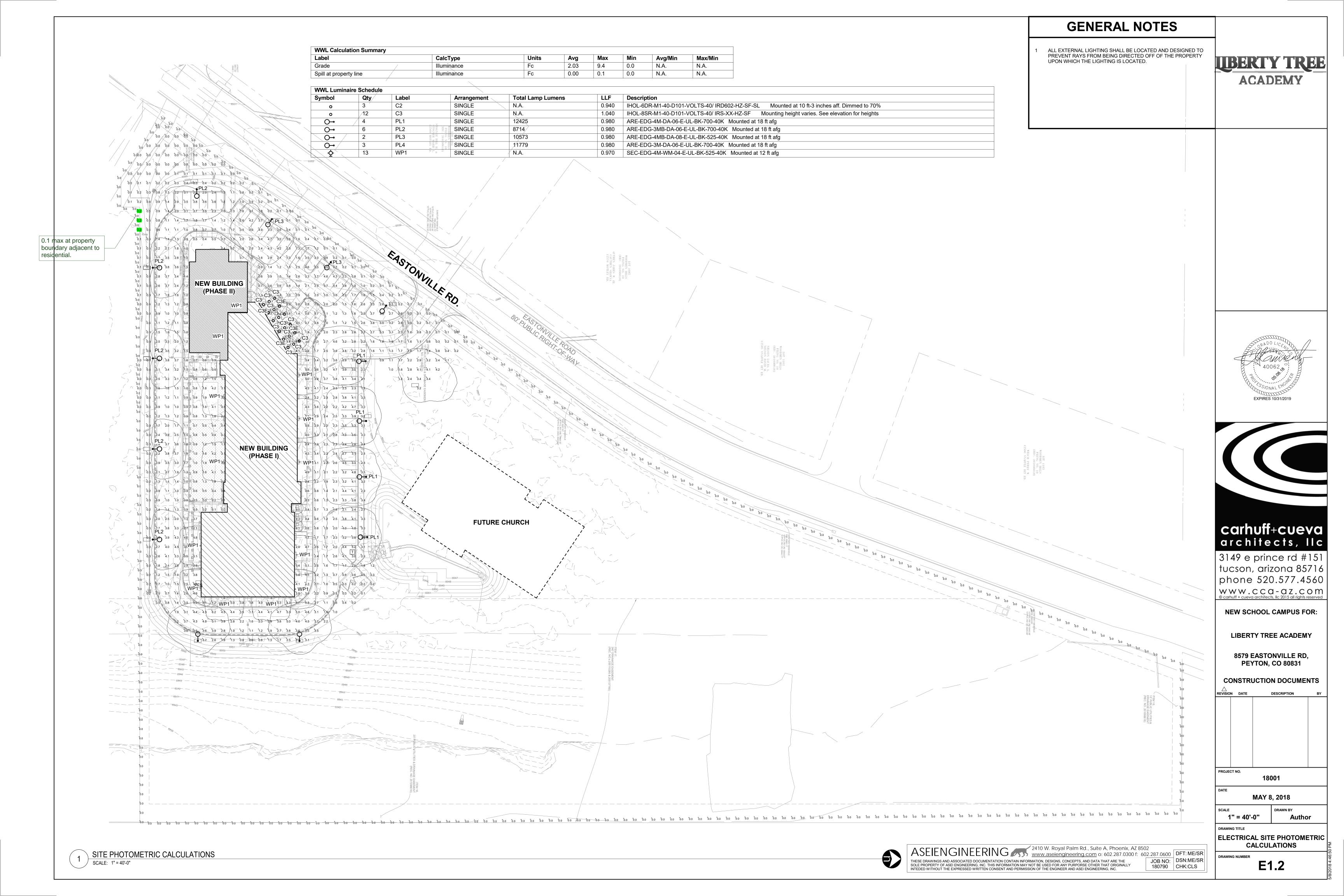
ASEIENGINEERING

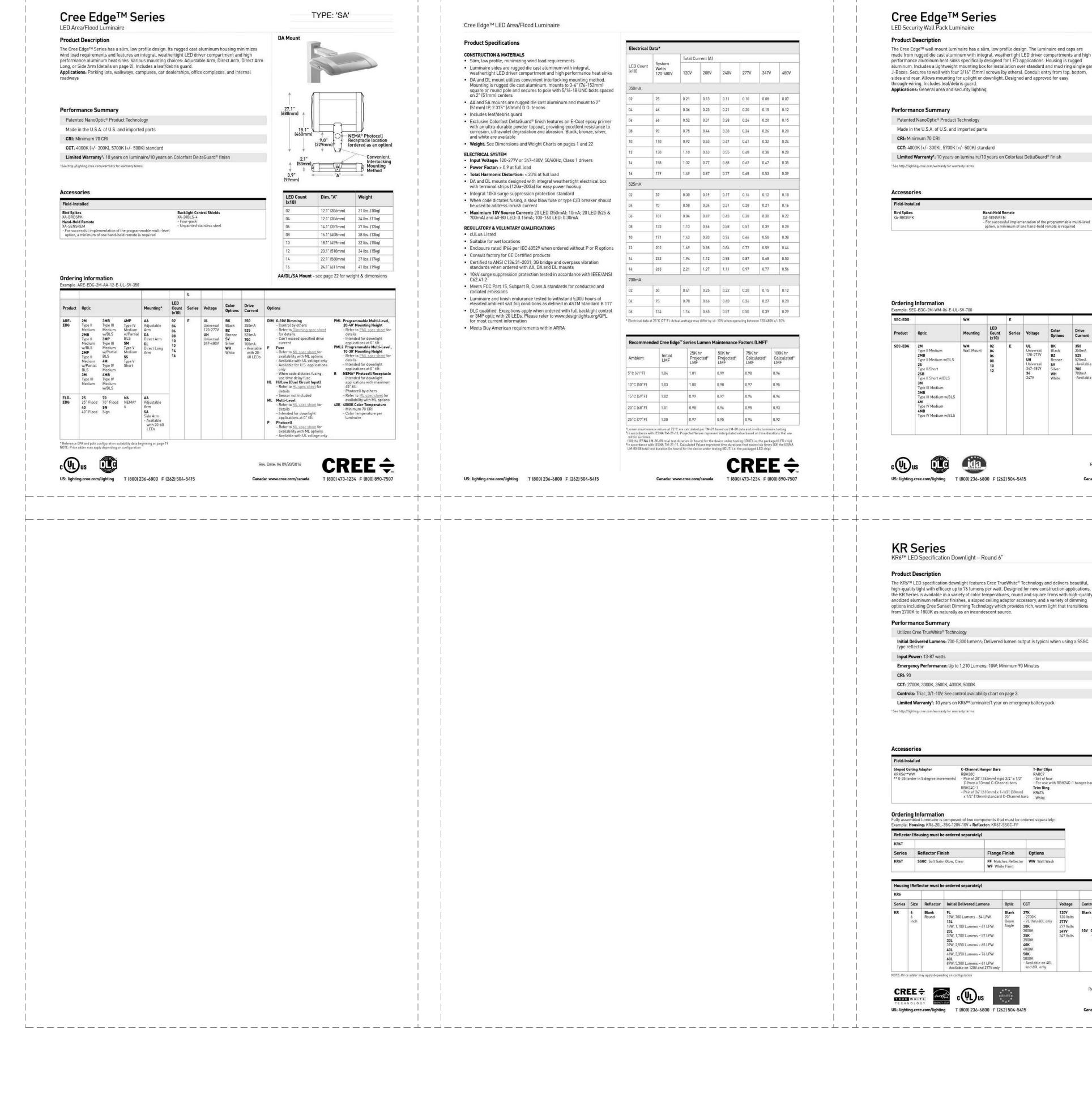
2410 W. Royal Palm Rd., Suite A, Phoenix, AZ 8502

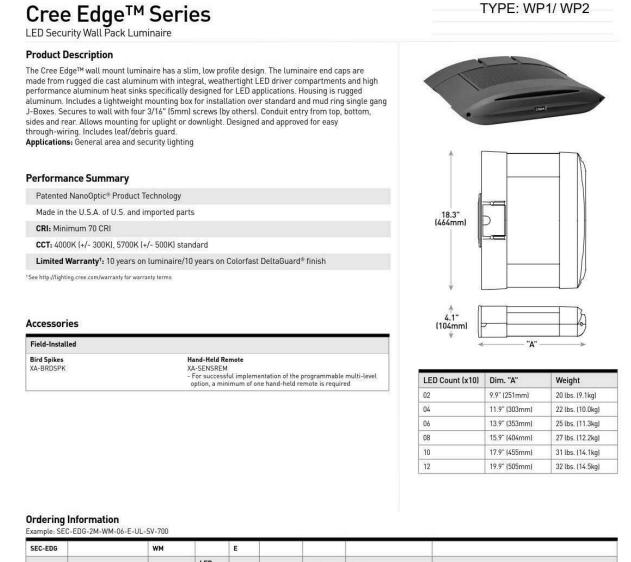
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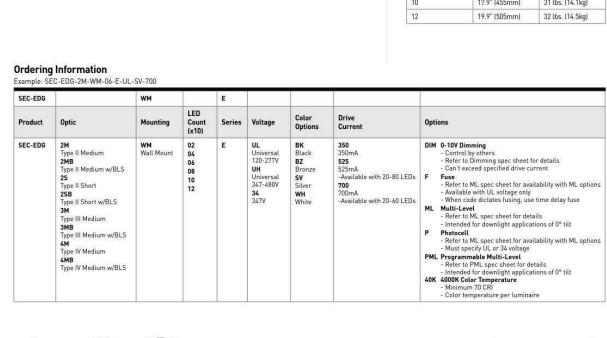
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Canada: www.cree.com/canada

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Product Specifications Electrical Data* **CONSTRUCTION & MATERIALS** System Watts 120-480V 120V 208V 240V 277V 347V 480V · Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications Housing is rugged aluminum Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes 0.21 0.13 0.11 0.10 0.08 0.07 Luminaire can also be direct mounted to a wall and surface wired 0.36 0.23 0.21 0.20 0.15 0.12 Secures to wall with four 3/16" (5mm) screws (by others) · Conduit entry from top, bottom, sides, and rear 0.52 0.31 0.28 0.26 0.20 0.15 · Allows mounting for uplight or downlight Designed and approved for easy through-wiring Includes leaf/debris guard 110 0.92 0.53 0.47 0.41 0.32 0.24 Exclusive Colorfast DeltaGuard® finish features an E-Coat enoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and 130 1.10 0.63 0.55 0.48 0.38 0.28 white are available . Weight: See Dimensions and Weight Chart on page 1 0.30 0.19 0.17 0.16 0.12 0.10 0.58 0.34 0.31 0.28 0.21 0.16 • Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers Power Factor: > 0.9 at full load 0.84 0.49 0.43 0.38 0.30 0.22 Total Harmonic Distortion: < 20% at full load 133 1.13 0.66 0.58 0.51 0.39 0.28 Integral weathertight J-Box with leads (wire nuts) for easy power hook

Cree Edge™ LED Security Wall Pack Luminaire

Integral 10kV surge suppression protection standard

Maximum 10V Source Current: 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

cULus Listed

. To address inrush current, slow blow fuse or type C/D breaker should

US: lighting.cree.com/lighting T (800) 236-6800 F (262) 504-5415

· Suitable for damp locations

EnergyStar® certified. Please refer to https://www.energystar.gov/

US: lighting.cree.com/lighting T (800) 236-6800 F (262) 504-5415

RoHS compliant. Consult factory for additional details

Designed for indoor use

Meets FCC Part 15 standards for conducted and radiated emissions Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML options	Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF)¹					
 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 	Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated LMF
 DLC qualified. Exceptions apply when ordered with full backlight control. Please refer to www.designlights.org/QPL for most current information 	5°C (41°F)	1.04	0.99	0.97	0.95	0.93
 Dark Sky Friendly, IDA Approved. Please refer to www.darksky.org/ for most current information 	10°C (50°F)	1.03	0.98	0.96	0.94	0.92
Meets Buy American requirements within ARRA	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

0.41 0.25 0.22 0.20 0.15 0.12

1.14 0.65 0.57 0.50 0.39 0.29

93 0.78 0.46 0.40 0.36 0.27 0.20

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KR6™ LED Specification Downlight – Round 6" **Product Specifications** Recommended KR Series Lumen Maintenance Factors (LMF)¹ CREE TRUEWHITE® TECHNOLOGY A revolutionary way to generate high-quality white light, Cree TrueWhite®
 25K hr
 50K hr
 75K hr
 100K hr

 Projected²
 Projected²
 Calculated³
 Calculated³

 LMF
 LMF
 LMF
 ology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency, all while maintaining high luminous efficacy - a true no compromise solution. 9L and 13L CONSTRUCTION & MATERIAL Low brightness parabolic spun Alzak aluminum cone, 0.06" (2mm) thick with polished radius and continuous self-flange · Soft Satin Glow Clear finish, standard 2" (51mm) aperture throat to accommodate all standard and up to 3" (76mm) thick ceilings and provide flexibility in mounting within grid · Provided with quick mounting brackets for optional carrying channels · Light engine, optics, and driver accessible from below ceiling 40L and 60L 9L and 13L Power Factor: > 0.9 for 120V and 277V 40L and 60L . Total Harmonic Distortion: < 20% at full load Input Power: 120, 277V, or 347V, 50/60Hz • Operating Temperature Range: -18°C - $+40^{\circ}\text{C}$ [0°F - $+104^{\circ}\text{F}$]; minimum operating temperature with EB7 option is 0°C [32°F] 10V Source Current: 9L & 12L: 0.15mA; 20L-40L: 2.2mA; 60L: 0.11mA For standard control offering refer to control availability chart on page 3 For use with Class 2 dimming systems only. Reference http://lighting.cree.com/products/indoor/new-construction-downlights/ kr-series for recommended dimming controls and wiring diagrams REGULATORY & VOLUNTARY QUALIFICATIONS cULus Listed Suitable for thru-wiring 8#12AWG-90°C

 Thermally protected Type NON-IC in accordance with Article 410 of the NEC and UL 1598 Meets FCC Part 15, Subpart B, Class A standards for conducted and Installation

 Recommended ceiling cutout 6.5" (165mm) Note: 30L and 40L versions require marked spacing: 24" (600mm) x 12" (300mm) x ½" (12mm), 24" (600mm) luminaire to luminaire, 12" (300mm) luminaire to side wall, ½" (12mm) above luminaire 60L versions require marked spacing: 48" (1219mm) x 24" (600mm) x 1" (25mm), 48" (1219mm) luminaire to luminaire, 24" (600mm) luminaire to side wall, 1" (25mm) above luminaire

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DESCRIPTION REVISION DATE PROJECT NO. 18001

MAY 8, 2018

DRAWING TITLE

EXTERIOR LIGHT FIXTURES CUT SHEETS

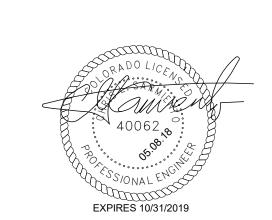
DRAWING NUMBER

DRAWN BY

Author

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ACADEMY





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Markup Summary

