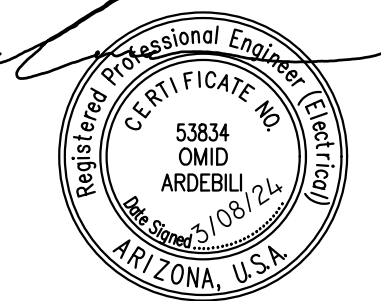


EXTERIOR LUMINAIRE SCHEDULE							
CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	VOLTS
SA		(1) 274W	LITHONIA LIGHTING. (2) DSXO LED P6 30K 80CRI T5W MVOLT SPA LITTLEFUSE: 01500322H	(2) D--SERIES LED POLE MOUNTED LUMINAIRE, 3000K CCT 80 CRI. WITH INTEGRATED ACS INLINE FUSE HOLDER.	LED	POLE	208V 2P 2W
SB		(1) 137W	LITHONIA LIGHTING. DSXO LED P6 30K 80CRI T5W MVOLT SPA LITTLEFUSE: 01500322H	D--SERIEES LED POLE MOUNTED LUMINAIRE, 3000K CCT 80 CRI. WITH INTEGRATED ACS INLINE FUSE HOLDER.	LED	POLE	208V 2P 2W
SC		(1) 137W	LITHONIA LIGHTING. DSXO LED P6 30K 80CRI T5W MVOLT SPA HS LITTLEFUSE: 01500322H	D--SERIEES LED POLE MOUNTED LUMINAIRE, 3000K CCT 80 CRI. WITH INTEGRATED ACS INLINE FUSE HOLDER.	LED	POLE	208V 2P 2W
SD		(1) 137W	LITHONIA LIGHTING. DSXO LED P6 30K 80CRI BLC4 MVOLT SPA LITTLEFUSE: 01500322H	D--SERIEES LED POLE MOUNTED LUMINAIRE, 3000K CCT 80 CRI. WITH INTEGRATED ACS INLINE FUSE HOLDER.	LED	POLE	208V 2P 2W
SF		(1) 137W	LITHONIA LIGHTING. DSXO LED P6 30K 80CRI T2M MVOLT SPA HS LITTLEFUSE: 01500322H	D--SERIEES LED POLE MOUNTED LUMINAIRE, 3000K CCT 80 CRI. WITH INTEGRATED ACS INLINE FUSE HOLDER.	LED	POLE	208V 2P 2W
SGE		(1) 18.98W	LITHONIA LIGHTING WDGE2 LED P2 30K 80CRI TFTM MVOLT SRM E20WC	WDGE2 LED WITH P2 -- PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE FORWARD THROW MEDIUM OPTIC MINIMUM 90 MINUTES OF EMERGENCY BATTERY PACK.	LED	WALL	120V 1P 2W
SHE		(1) 11.8W	DMF LIGHTING DRDH N JO 100SEM / DRD5S 4 R 10 9 30 EM	4" SURFACE MOUNTED DOWNLIGHT, 3000K, WITH MINIMUM 90 MINUTES OF EMERGENCY BATTERY PACK.	LED	SURFACE	120V 1P 2W
SL		(1) 51.17W	LITHONIA LIGHTING WDGE3 LED P1 80CRI R3 30K MVOLT SRM	WALL MOUNTED LED WITH P1 -- PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE 3 OPTIC	LED	WALL	120V 1P 2W



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COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information
Energy Code: 2018 IECC
Project Title: POWER & ELLIOTT (DR)
Project Type: New Construction
Exterior Lighting Zone: 2 (Residential mixed use area (LZ2))

Construction Site: SEC OF POWER ROAD AND ELLIOTT MESA, AZ 85212
Owner/Agent:
Designer/Contractor:

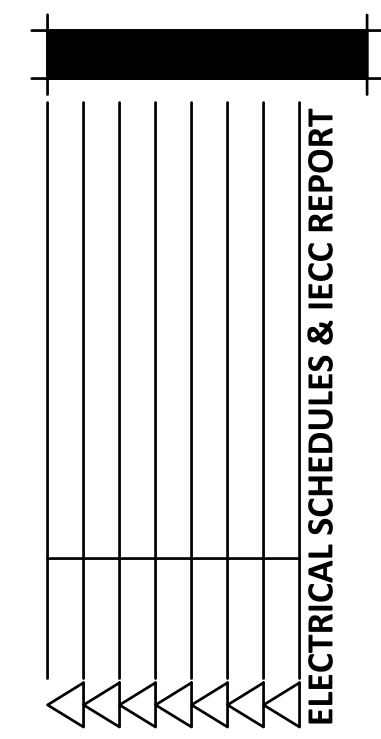
A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
ALDI RETAIL WALL (Illuminated area of facade wall or surface)	19119 ft2	0.07	No	1434
FITNESS WALL (Illuminated area of facade wall or surface)	41789 ft2	0.07	No	3154
CAR PARKING (Parking area)	263730 ft2	0.04	Yes	10549
Total Tradable Watts (a) =				10549
Total Allowed Watts =				15117
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
ALDI RETAIL WALL (Illuminated area of facade wall or surface 19119 ft2): Non-tradable Wattage				
LED 4: SGE: WALL SCONCE: Other:	1	2	19	38
LED 5: SHE: DOWNLIGHT: Other:	1	2	12	24
LED 13: SL: WALL PACK: Other:	1	2	51	102
FITNESS WALL (Illuminated area of facade wall or surface 41789 ft2): Non-tradable Wattage				
LED 8: SGE: WALL SCONCE: Other:	1	6	19	114
LED 7: SHE: DOWNLIGHT: Other:	1	2	12	24
LED 14: SL: WALL PACK: Other:	1	2	51	102
CAR PARKING (Parking area 263730 ft2): Tradable Wattage				
LED 8: SA: TWIN HEAD POLE: Other:	2	14	274	3836
LED 9: SB: SINGLE HEAD POLE: Other:	1	1	137	137
LED 10: SC: SINGLE HEAD POLE: Other:	1	4	137	548
LED 11: SD: SINGLE HEAD POLE: Other:	1	7	137	959
LED 12: SF: SINGLE HEAD POLE: Other:	1	2	137	274
Total Tradable Proposed Watts =				5754

Project Title: POWER & ELLIOTT (DR) Report date: 03/01/24
Data filename: Z:\Shared\01_P\Projects\2022\22713_RKAA_Power and Elliot (DR)\01_Construction Documents\ENERGY\22713_IECC.cck Page 1 of 6



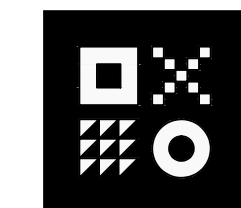
NOTICE OF ALTERNATE BILLING OR PAYMENT CYCLE: THIS CONTRACT MAY ALLOW THE OWNER TO REQUIRE THE SUBMISSION OF BILLING OR ESTIMATES IN BILLING CYCLES OTHER THAN THIRTY DAYS. THIS CONTRACT MAY REQUIRE OWNER TO MAKE PAYMENT CERTIFICATION AND APPROVAL OF BILLING AND ESTIMATES. A WRITTEN DISCREPANCY NOTICE BILLING CYCLE APPLICABLE TO THE PROJECT IS AVAILABLE FROM OWNER OR DESIGNATED AGENT.

POWER & ELLIOTT RETAIL
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Exterior Lighting PASSES: Design 47% better than code

Exterior Lighting Compliance Statement
Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

HICHAM KHACHANE, PM. Signature: Date: 03/01/2024

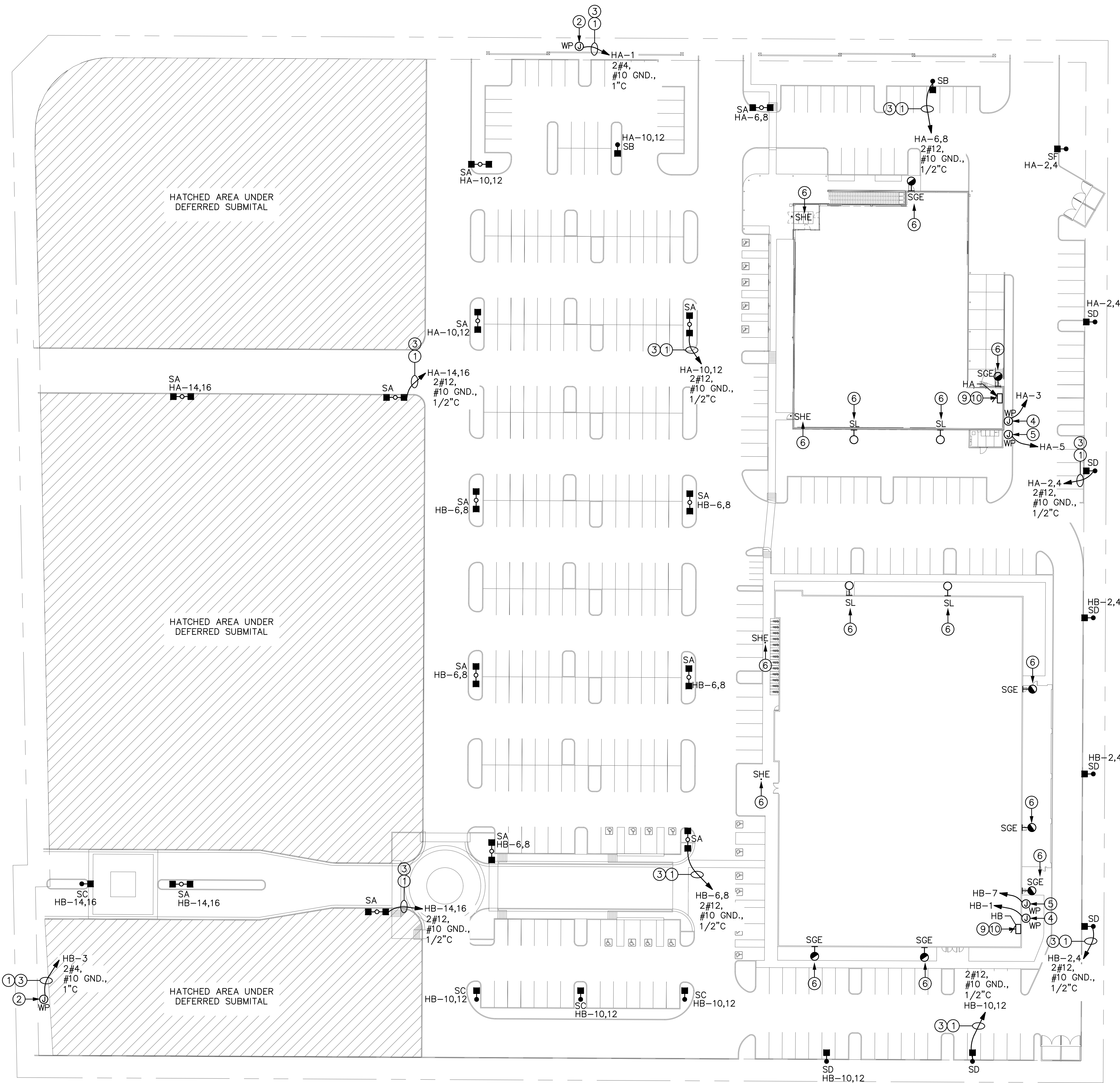


ARDEBILI Engineering
Project Number: 22713 | Project Manager: HK
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design by: JG
drawn by: JG
checked by: HK

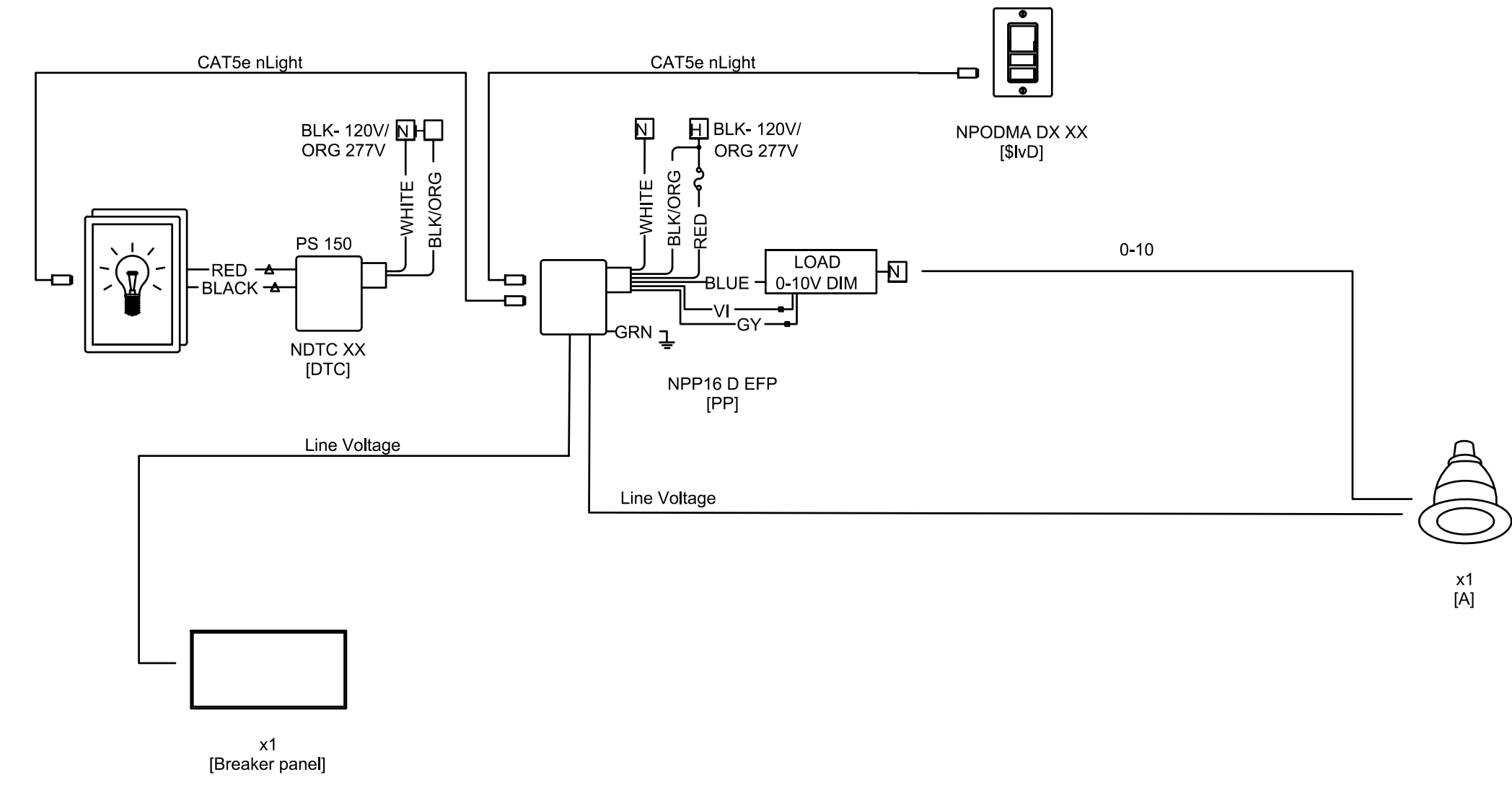
E0.2
project #: 22223.50



- ### GENERAL NOTES
- ALL EXTERIOR LIGHT FIXTURES TO COMPLY WITH LOCAL NIGHT SKY ORDINANCE.
 - ALL EXTERIOR LIGHTING AND SIGNAGE TO BE FED WITH #10 CU. U.N.O.
 - ALL EXTERIOR ELECTRICAL EQUIPMENT TO BE NEMA-3R RATED.
 - CONTRACTOR TO COORDINATE EXACT SITE LIGHTING FIXTURE LOCATIONS WITH LANDSCAPE DRAWINGS.
 - ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410-4. ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.
 - FIRE ALARM EQUIPMENT SHALL BE COORDINATED FOR EXACT LOCATION AND REQUIREMENTS WITH FIRE MARSHALL.
 - ALL PVC CONDUIT MUST HAVE A MINIMUM OF #12 CU. GROUND CONDUCTOR.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING PROVIDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANIES FINAL DESIGN DRAWINGS.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.
- ### KEYED NOTES
- ROUTE 3/4" PVC CONDUIT BACK TO LIGHTING CONTRACTOR W/ (2)#10, (1) #10 GND. CONDUCTORS. VERIFY EXACT ROUTING PRIOR TO INSTALLATION. TRENCH, BACKFILL, AND REPAIR LANDSCAPE/HARDSCAPE AS REQUIRED. ADHERE TO NEC 300.5 FOR BURIAL DEPTHS.
 - PROVIDE W.P. J-BOX FOR MONUMENT SITE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT AND OR OWNER AND ELECTRICAL REQUIREMENTS WITH VENDOR.
 - CIRCUIT THROUGH LIGHTING CONTRACTOR. SEE DETAIL ON THIS SHEET FOR MORE INFO.
 - PROVIDE POWER CONNECTION FOR CONVENIENCE RECEPTACLE. VERIFY LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
 - PROVIDE POWER CONNECTION FOR IRRIGATION CONTROLLER. VERIFY POWER REQUIREMENT WITH SPRINKLER SYSTEM CONTRACTOR. VERIFY LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
 - LIGHTING FIXTURES HAS BEEN SHOWED JUST FOR REFERENCE ONLY. REFER TO TENANT IMPROVEMENT PLANS.
 - NOT USED
 - NOT USED
 - PROPOSED LOCATION OF NEW SURFACE MOUNTED PANEL IN NEMA 1 ENCLOSURE. REFER TO TENANT IMPROVEMENT PLANS FOR FURTHER INFORMATION.
 - MOUNT NEMA 1 CONTRACTOR/TIME CLOCK TO PANEL.

NOTE
ALL UNDERGROUND CONDUIT FOR BRANCH CIRCUITS SHALL BE A MINIMUM OF 24" BELOW GRADE, OR PER NEC TABLE 300.5.

CONDUIT ROUTING NOTE
COORDINATE UNDERGROUND CONDUIT ROUTING WITH OWNER/ARCH AND OTHER DISCIPLINE PRIOR TO ROUGH-IN.

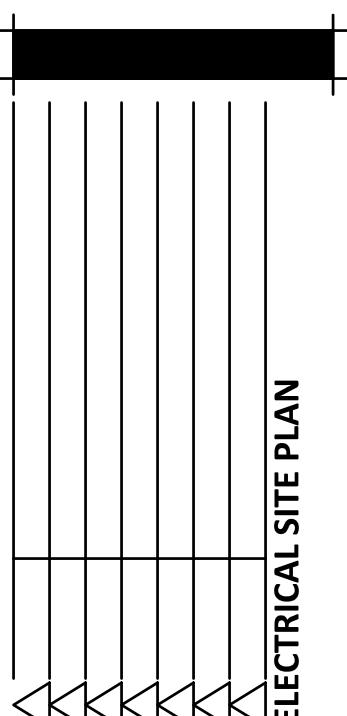
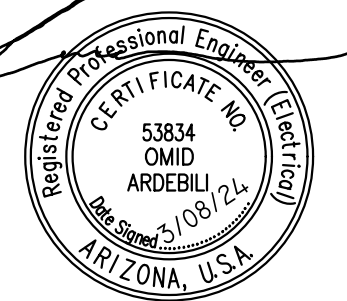


1 DIGITAL TIME CLOCK EIRING DETAIL
SCALE: N.T.S.

1 ELECTRICAL SITE PLAN
SCALE: 1/40"=1'-0"



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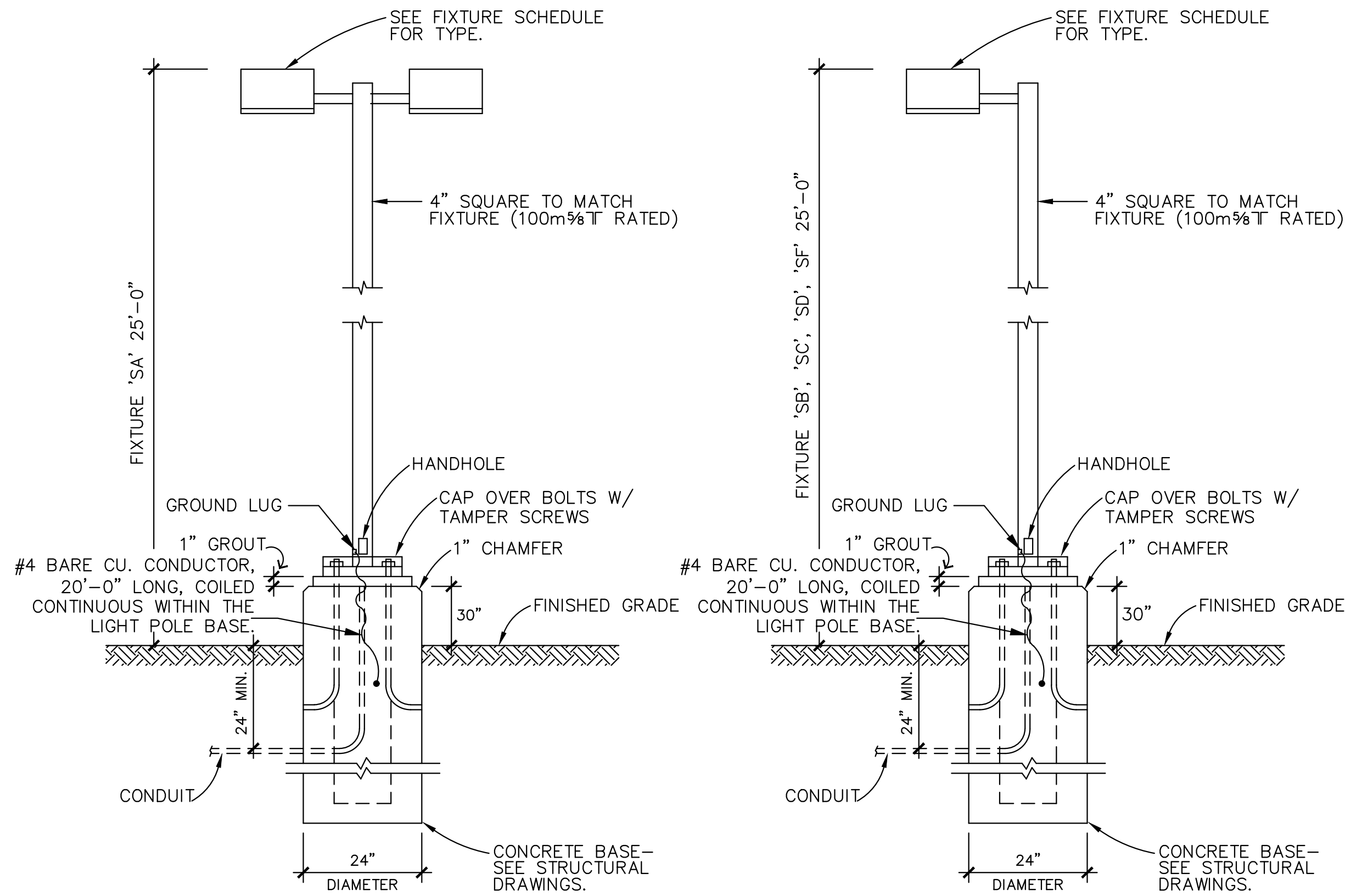


NOTICE OF ALTERNATE BILLING OR PAYMENT CYCLE: THIS CONTRACT MAY ALLOW THE OWNER TO REQUIRE THE COMPLETION OF BILLING OR ESTIMATES IN BILLING CYCLES OTHER THAN THIRTY DAYS. THIS CONTRACT MAY REQUIRE OWNER TO MAKE PAYMENT TO CONTRACTOR WITHIN THIRTY DAYS OF THE DATE OF CERTIFICATION AND APPROVAL OF BILLING AND ESTIMATES. A WRITTEN DESCRIPTION OF SUCH OTHER BILLING CYCLE APPLICABLE TO THE PROJECT IS AVAILABLE FROM OWNER OR DESIGNATED AGENT.
NAME: _____
ADDRESS: _____
CONTACT: Name _____
PHONE: _____

POWER & ELLIOT RETAIL
3663 E POWER ROAD MESA ARIZONA 85212
SEC OF S POWER ROAD AND E ELLIOT ROAD
1ST CITY REVIEW 10/16/2023

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design by: JG
drawn by: JG
checked by: HK



LIGHT POLE AND FIXTURE 'SA'

N.T.S.

NOTE: CONTRACTOR SHALL PROVIDE NEW POLE BASES WHERE INDICATED ON PLANS. LIGHTING FIXTURE POLE DETAILS AND DESCRIPTIONS ARE FOR ELECTRICAL REFERENCES ONLY. PLEASE REFER TO ARCHITECTURAL SHEETS FOR POLE BASE DETAILS.

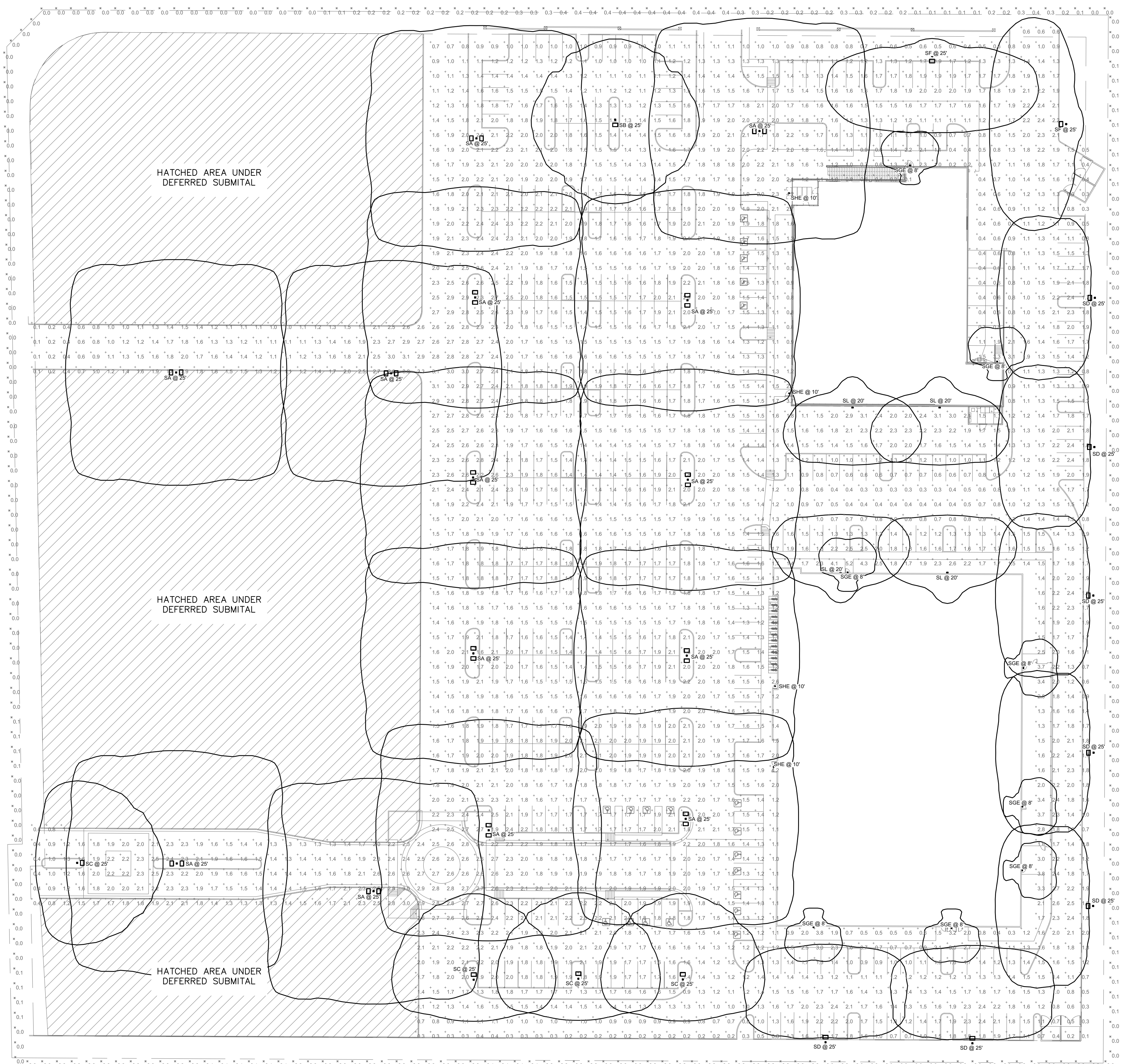
LIGHT POLE AND FIXTURE 'SB', 'SC', 'SD', 'SF'

N.T.S.

NOTE: CONTRACTOR SHALL PROVIDE NEW POLE BASES WHERE INDICATED ON PLANS. LIGHTING FIXTURE POLE DETAILS AND DESCRIPTIONS ARE FOR ELECTRICAL REFERENCES ONLY. PLEASE REFER TO ARCHITECTURAL SHEETS FOR POLE BASE DETAILS.

Statistics	Symbol	Avg	Max	Min	Max/Min	Avg/Min
SITE - FC @ GRADE	±	1.6 fc	5.2 fc	0.1 fc	52.0:1	16.0:1
PROPERTY LINE - FC @ 3' AFG	×	0.1 fc	0.4 fc	0.0 fc	N/A	N/A

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
□	SA	14	LITHONIA LIGHTING	(2) DSX0 LED P6 30K 80CRI T5W MVOLT SPA (FINISH) / SSS 22.5' W/2.5' BASE	TWIN-HEAD D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 5 Wide	LED - 3000K	DSX0_LED_P6_30K_80CRI_T5W.ies	15938	0.91	274
□	SB	1	LITHONIA LIGHTING	DSX0 LED P6 30K 80CRI T5W MVOLT SPA (FINISH) / SSS 22.5' W/2.5' BASE	D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 5 Wide	LED - 3000K	DSX0_LED_P6_30K_80CRI_T5W.ies	15938	0.91	137
□	SC	4	LITHONIA LIGHTING	DSX0 LED P6 30K 80CRI T5W MVOLT SPA (FINISH) / SSS 22.5' W/2.5' BASE	D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 5 Wide House Side Shield	LED - 3000K	DSX0_LED_P6_30K_80CRI_T5W_HS.ies	10758	0.91	137
□	SD	7	LITHONIA LIGHTING	DSX0 LED P6 30K 80CRI BLC4 MVOLT SPA (FINISH) / SSS 22.5' W/2.5' BASE	D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 4 Extreme Backlight Control	LED - 3000K	DSX0_LED_P6_30K_80CRI_BLC4.ies	11213	0.91	137
□	SF	2	LITHONIA LIGHTING	DSX0 LED P6 30K 80CRI T2M MVOLT SPA HS (FINISH) / SSS 22.5' W/2.5' BASE	D-Series Size 0 Area Luminaire P6 Performance Package 3000K CCT 80 CRI Type 2 Medium House Side Shield	LED - 3000K	DSX0_LED_P6_30K_80CRI_T2M_HS.ies	12802	0.91	137
◻	SGE	8	LITHONIA LIGHTING	WDGE2 LED P2 30K 80CRI TFTM MVOLT SRM E20WC (FINISH)	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE: 3000K, 80CRI, TYPE FORWARD THROW MEDIUM OPTIC W/EM BATTERY PACK	LED - 3000K	WDGE2_LED_P2_30K_80CRI_TFTM.ies	1934	0.91	18.8815
○	SHE	4	DMF LIGHTING	DRDH N JO 100SEM / DRDS4 R 10 9 30 EM	4IN SURFACE MOUNTED DOWNLIGHT W/EM BATTERY PACK	LED - 3000K	DRDS4-R-10930.ies	1015	0.91	11.8
◻	SL	4	LITHONIA LIGHTING	WDGE3 LED P1 80CRI R3 30K MVOLT SRM (FINISH)	WDGE3 LED WITH P1 - PERFORMANCE PACKAGE: 3000K, 80CRI, TYPE 3 OPTIC	LED - 3000K	WDGE3_LED_P1_70CRI_LR3_30K.ies	6933	0.91	51.1717



1 PHOTOMETRIC SITE PLAN
SCALE: 1/40"=1'-0"



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ELECTRICAL PHOTOMETRIC PLAN

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POWER & ELLIOT RETAIL
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design by: JG
drawn by: JG
checked by: HK

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Project Number: 22713 | Project Manager: HK
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E1.1
project #: 22223.50



D-Series Size 0 LED Area Luminaire



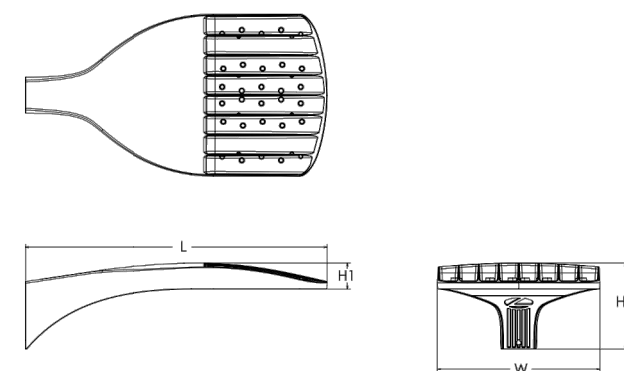
Category Number	
Notes	
Type	SA/SB/SC/SD/SF

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

Specifications

EPA:	0.44 ft ² (0.041m ²)
Length:	26.18" (66.5cm)
Width:	14.06" (35.7cm)
Height H1:	2.26" (5.7cm)
Height H2:	7.46" (18.9cm)
Weight:	23 lbs (10.4kg)



Ordering Information EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAR2 PIRNH DDBXD

DSX0 LED		Color Temperature	Color Rendering Index	Distribution	Voltage	Mounting
Forward optics (this section 70CRI only)						
P1	P5	30K 3000K	70CRI	T15 Type I short	MVOLT (120V-277V) ¹	SPA Square pole mounting (R8 drilling 3.5" min. 50 poles)
P2	P6	40K 4000K	70CRI	T2M Type II medium	XVOLT (277V-480V) ¹¹	
P3	P7	50K 5000K	70CRI	T3M Type III medium		
Rotated optics (this section 80CRI only, extended lead times apply)						
P10	P12	27K 2700K	80CRI	T3LG Type III low glare ²		RPA Round pole mounting (R8 drilling 3" min. R90 poles)
P11	P13	30K 3000K	80CRI	T4M Type IV medium		SPAS Square pole mounting (R8 drilling 3" min. R90 poles)
		35K 3500K	80CRI	T4LG Type IV low glare ²		RRAS Round pole mounting (R8 drilling 3" min. R90 poles)
		40K 4000K	80CRI	T4M Type IV medium		SPRBN Square narrow pole mounting (R8 drilling 3" min. 50 poles)
		50K 5000K	80CRI	TF1M Forward throw medium		WSA Wall bracket ⁹

Cost of options	Other options	Finish options
Shipped installed	Shipped installed	DDBD Dark bronze
NLTAR2 PIRNH nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-47" mounting height, ambient sensor enabled at 26" ^{14, 15}	HS Hoseside shield (black finish standard) ¹⁶	DBLD Black
FAO Field adjustable output ^{17, 18}	L90 Left rotated optics ¹	DNAD Natural Aluminum
BL30 Bi-level switched dimming, 30% ^{19, 20}	R90 Right rotated optics ¹	DWHD White
PR High-flow, motion/ambient sensor 1-47" mounting height, ambient sensor enabled at 26" ^{14, 15}	CCE Casual Construction ²¹	DBTD Textured dark bronze
PER NEMA twist-lock receptacle only (controls ordered separately) ²²	Shipped separately	DBLD Textured black
PER5 Fine-grip receptacle only (controls ordered separately) ^{14, 15}	EGS External Gase Shield (removable, field install required, matches housing finish)	DWHD Textured natural aluminum
	BS Bird spikes (field install required)	DWHD Textured white

DRD5S & SurfaceFrame

Surface Mount LED Downlight

New Construction
DRDHNJO Octagonal Junction Box

Project:	Type: SHE
Product Code:	Date:

Spec Sheet V-01.10.22



- Thinnest-in-class DRD5S delivers the pure, smooth light and the elegant look of a high-end recessed downlight
- Features multiple ratings to meet the demands of a wide range of situations
- Ultra-low profile allows it to install in as little as 2" of ceiling space when 5/8" drywall is used

Application New Construction	Aperture 4" Octagonal Junction Box
Delivered Lumens 750 lm (9.0W), 1000 lm (12.0W)	Color Quality 90+ CRI, < 3-step SDCM
Color Temperature 2700K 3000K 3500K	Optics General
Input Voltage 120V only (TRIAC/ELV), 120/277V (0-10V)	Dimming TRIAC/ELV 5% 0-10V 1%
Shape Round, Square	Emergency Lighting Optional Emergency LED Driver with Integrated Test Switch for lighting up to 90 minutes in event of power failure
Housing Ratings Code compliant for use in appropriate fire-rated assemblies up to a maximum of 2-hours	Finish White
UL LISTED	Module Ratings UL Closet Rating Compliant (202 lm only)
Guarantee 50,000 hrs 5 years	Additional Options Non-Conductive Dead Front



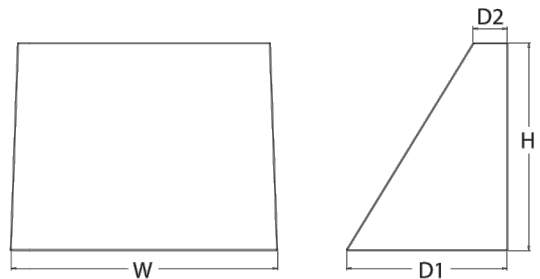
WDGE2 LED Architectural Wall Sconce Precision Refractive Optic



Category Number	
Notes	
Type	SG

Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight:	13.5 lbs (without options)



WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens @900K, 10CRI						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W			750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information EXAMPLE: WDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0 ¹	27K 2700K	70CRI ²	T15 Type I Short	MVOLT	SRM Surface mounting bracket
	P1 ¹	30K 3000K	80CRI	T2M Type II Medium	347 ¹	SRM Surface mounting bracket
	P2 ¹	40K 4000K	LW ³ Limited Wavelength	T3M Type III Medium	480 ¹	SRM Surface mounting bracket
	P3 ¹	50K 5000K		T4M Type IV Medium		SRM Surface mounting bracket
P4 ¹	AMP Amber		T4M Type IV Medium		SRM Surface mounting bracket	

Options	Finish
E10WH Emergency battery backup, Certified in CA Title 20 MAERBS (10W, 20°C min)	DDBD Dark bronze
E20WC Emergency battery backup, Certified in CA Title 20 MAERBS (18W, 20°C min)	DBLD Black
FE ¹ Photo-eye, Button Type	DNAD Natural Aluminum
DMG ⁴ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	DWHD White
BCE Bottom conduit entry for back box (PBRW), Total of 4 entry points.	DBTD Textured dark bronze
BAA Buy American(s) Act Compliant	DBLD Textured black
	DWHD Textured natural aluminum
	DWHD Textured white
	DSSTD Textured sandstone

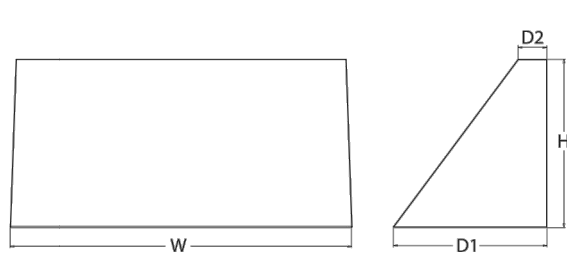
WDGE3 LED Architectural Wall Sconce



Category Number	
Notes	
Type	SL

Specifications

Depth (D1):	8"
Depth (D2):	1.5"
Height:	9"
Width:	18"
Weight:	19.5 lbs (without options)



WDGE LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Sensor	Lumens @900K					
				P1	P2	P3	P4	P5	P6
WDGE1 LED	4W	--	--	1,200	2,000	--	--	--	--
WDGE2 LED	10W	18W	Standalone / nLight	1,200	2,000	3,000	4,500	6,000	--
WDGE3 LED	15W	18W	Standalone / nLight	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	--	--	Standalone / nLight	12,000	16,000	18,000	20,000	22,000	25,000

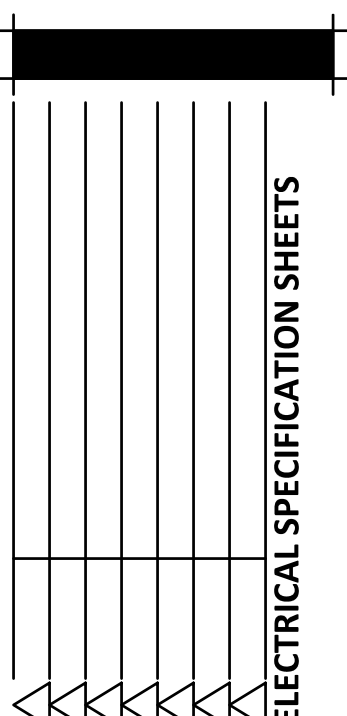
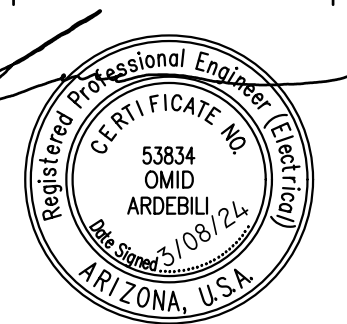
Ordering Information EXAMPLE: WDGE3 LED P3 40K 70CRI R3 MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE3 LED	P1	30K 3000K	70CRI	R2 Type 2	MVOLT	SRM Surface mounting bracket
	P2	40K 4000K	80CRI	R3 Type 3	347 ¹	SRM Surface mounting bracket
	P3	50K 5000K		R4 Type 4	480 ¹	SRM Surface mounting bracket
	P4			RT Forward Throw		SRM Surface mounting bracket

AWSS 3/8inch Architectural wall spacer
PBRW 5 surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.



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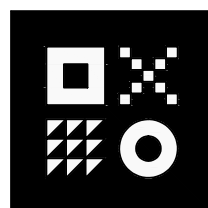


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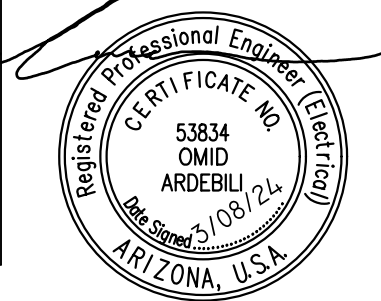


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E1.2
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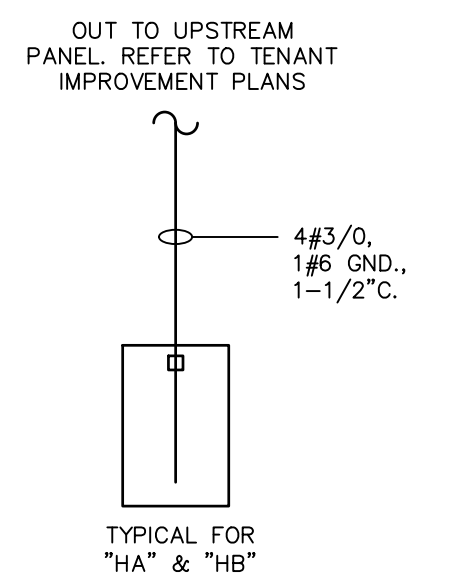


ONE-LINE GENERAL NOTES

- A. SWITCHBOARD COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.
- B. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING IDENTIFICATION PER NEC ARTICLE 110.16
- C. "NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE ELECTRICAL INSPECTOR."
- D. THE FEEDER LENGTHS SHOWN IN THE INPUT DATA IS FOR CALCULATIONS ONLY. IT IS NOT THE INTENT TO USE THESE ENTERED LENGTHS FOR USAGE OF ACTUAL FIELD FEEDER LENGTH MEASUREMENTS.
- E. PER NEC 240.2 CURRENT LIMITING OVERCURRENT A DEVICE THAT, WHEN INTERRUPTING CURRENTS IN ITS CURRENT-LIMITING RANGE, REDUCES THE CURRENT FLOWING IN THE FAULTED CIRCUIT TO A MAGNITUDE SUBSTANTIALLY LESS THAN THAT OBTAINABLE IN THE SAME CIRCUIT IF THE DEVICE WERE REPLACED WITH A SOLID CONDUCTOR HAVING COMPARABLE IMPEDANCE.

PANEL SCHEDULES GENERAL NOTES

- A. A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES. EACH DEVICE SHALL BE FULLY RATED AT AFC AS SHOWN ON ONE-LINE DIAGRAM.
- B. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.
- C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK ON LABELS NOT ACCEPTABLE)
- D. PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.
- E. ALL LIFE SAFETY CIRCUITS SHALL REQUIRE A LOCK ON DEVICE. FIRE ALARM CIRCUITS SHALL HAVE RED IDENTIFICATION AND BE IDENTIFIED AS FIRE ALARM CIRCUIT.
- F. PER NEC 408.4(A) EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE.
- G. PER NEC 700.12(F)2 INSTALLATION OF UNIT EQUIPMENT, EMERGENCY LIGHTS, EXIT SIGNS & OTHER UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED WITHIN & AT THE DISTRIBUTION PANEL.



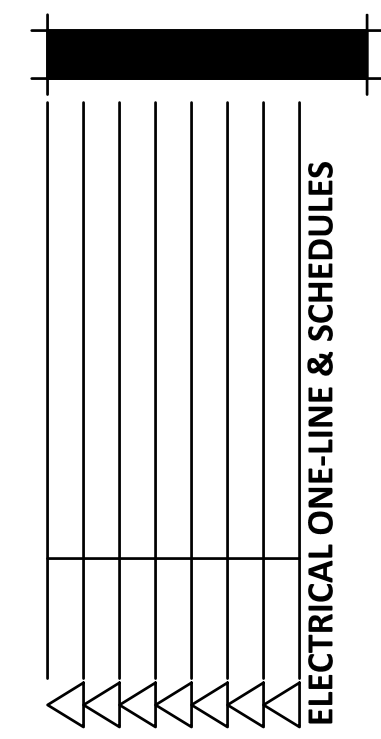
PARTIAL ONE-LINE DIAGRAM

HA		NEW PANEL									
ROOM REFER TO T.I. PLANS		VOLTS 208Y/120V 3P 4W					AIC 10,000				
MOUNTING RECESSED		BUS AMPS 200					MAIN BKR 200				
FED FROM UTILITY		NEUTRAL 100%					LUGS STANDARD				
NOTE: NEMA 1											
CKT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD		
			A	B	C				A	B	C
1	20/1	NORTH #3 MONUMENT SIGN	1.2			2	20/2	#1 EXTERIOR LIGHTING	0.206		
3	20/1	NORTH CONVENIENCE RECEPTACLE		0.18		4				0.206	0.206
5	20/1	IRRIGARION CONTROL			0.5	6	20/2	#2 EXTERIOR LIGHTING		0.206	
7	-/1	SPACE	0			8					0.48
9	-/1	SPACE	0	0		10	20/2	#3 EXTERIOR LIGHTING			
11	-/1	SPACE			0	12					0.48
13	-/1	SPACE	0			14	20/2	#4 EXTERIOR LIGHTING	0.274		
15	-/1	SPACE			0	16			0.274		
TOTAL CONNECTED KVA BY PHASE									1.89	1.14	1.19
TOTAL CONNECTED AMPS BY PHASE									15.8	9.49	9.96
LIGHTING			CONN KVA	2.33	CALC KVA	2.91	(125%)	RECEPTACLES	1.2	1.2	(50%>10)
							NONCONTINUOUS	0.68	0.68	(100%)	
							TOTAL LOAD	4.79			
							BALANCED 3-PHASE LOAD	13.3 A			

PANELBOARD SYMBOLS	
▲	CONTROLLED BY TIME CLOCK/PHOTOCELL
NOTE: ALL SYMBOLS MAY NOT APPLY TO THIS PROJECT	

ABBREVIATIONS	
SES	SERVICE ENTRANCE RATED
S.U.S.E.	SUITABLE FOR USE AS SERVICE EQUIPMENT (FOR SERVICES ON THE LOAD SIDE OF THE MAIN SERVICE ENTRANCE DISCONNECT PER N.E.C 230.66)
SCCR	SHORT CIRCUIT CURRENT RATING
Isc:	AVAILABLE SHORT CIRCUIT CURRENT IN AMPERES

VOLTAGE DROP SCHEDULE					
DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	WIRE SIZE	
HA	0%	#3/0	2.6% (CKT 1)	#4	2.6%
HB	0%	#3/0	3.46% (CKT 3)	#4	3.46%

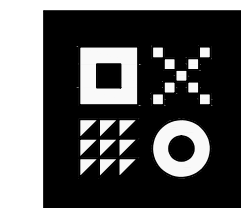


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HB		NEW PANEL									
ROOM REFER TO T.I. PLANS		VOLTS 208Y/120V 3P 4W					AIC 10,000				
MOUNTING RECESSED		BUS AMPS 200					MAIN BKR 200				
FED FROM UTILITY		NEUTRAL 100%					LUGS STANDARD				
NOTE: NEMA 1											
CKT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	BKR	CIRCUIT DESCRIPTION	KVA LOAD		
			A	B	C				A	B	C
1	20/1	SOUTH CONVENIENCE RECEPTACLE	0.18			2	20/2	#1 EXTERIOR LIGHTING	0.206		
3	20/1	SOUTH MONUMENT SIGN		1.2		4				0.206	0.822
5	-/1	SPACE			0	6	20/2	#2 EXTERIOR LIGHTING		0.822	
7	20/1	IRRIGARION CONTROL	0.5			8					0.343
9	-/1	SPACE	0	0		10	20/2	#3 EXTERIOR LIGHTING			
11	-/1	SPACE			0	12					0.343
13	-/1	SPACE	0			14	20/2	#4 EXTERIOR LIGHTING	0.343		
15	-/1	SPACE			0	16			0.343		
TOTAL CONNECTED KVA BY PHASE									2.05	2.09	1.16
TOTAL CONNECTED AMPS BY PHASE									17.1	17.4	9.97
LIGHTING			CONN KVA	3.43	CALC KVA	4.28	(125%)	RECEPTACLES	1.2	1.2	(50%>10)
							NONCONTINUOUS	0.68	0.68	(100%)	
							TOTAL LOAD	6.16			
							BALANCED 3-PHASE LOAD	17.1 A			

FAULT CURRENT SCHEDULE													
DEVICE	FAULT	AIC RATING	L-N VOLTS	UTILITY	FED FROM		FEEDER					DIRECTLY CONNECTED MOTOR LOAD	
					FAULT	DEVICE	SIZE	X / 1000'	R / 1000'	LENGTH	X		R
HA	10,000	10,000	120V	10,000			#3/0	0.042	0.077		0.0004	0.0008	
HB	10,000	10,000	120V	10,000			#3/0	0.042	0.077		0.0004	0.0008	

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design by: JG
 drawn by: JG
 checked by: HK

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