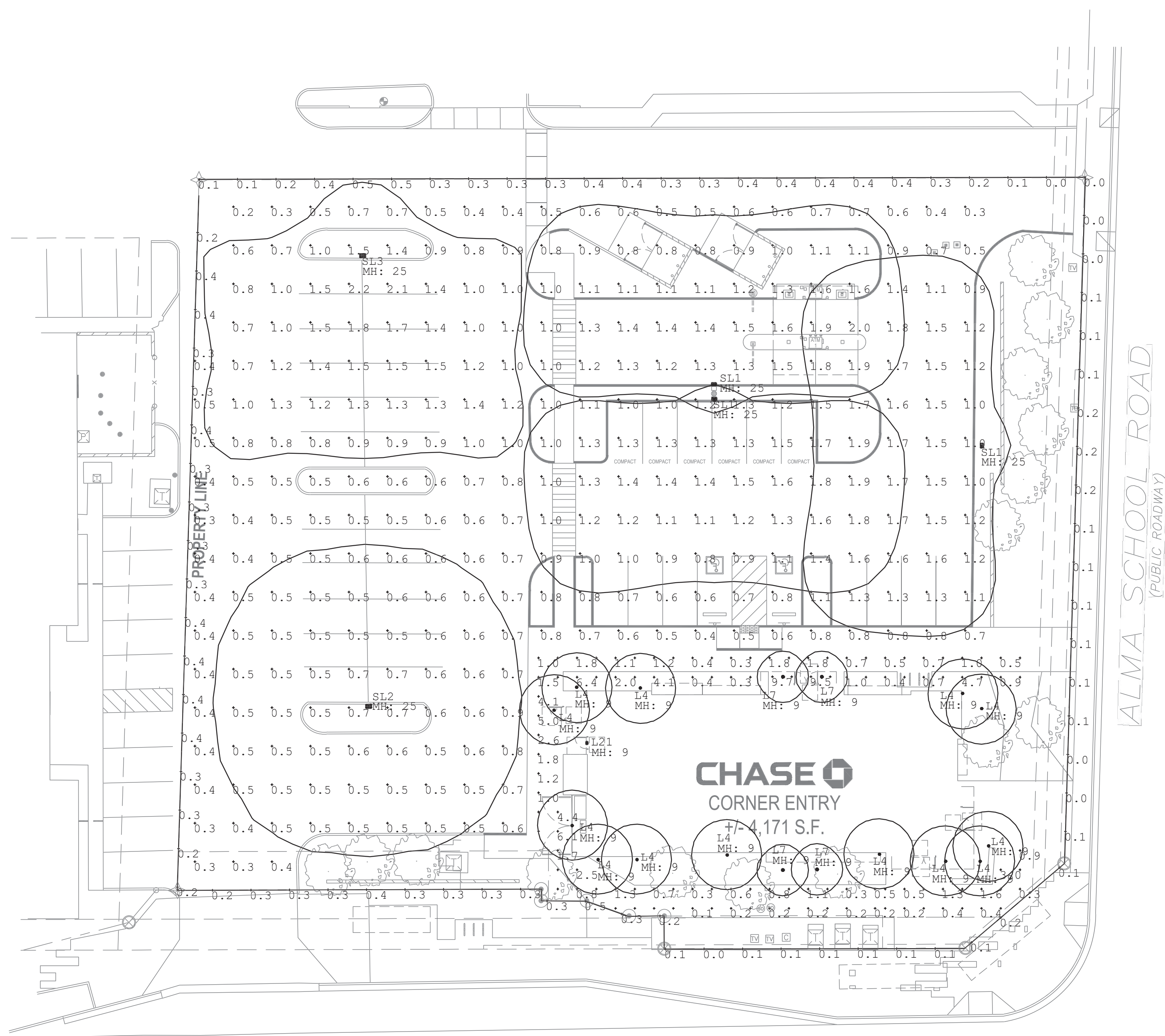


THIS DRAWING IS PROVIDED AS AN INSTRUMENT OF SERVICE BY ARIZONA PINNACLE ENGINEERING, LLC AND/OR ITS CONSULTANT, AND IS INTENDED FOR USE ON THIS PROJECT ONLY. THIS DRAWING REMAINS THE PROPERTY OF ARIZONA PINNACLE ENGINEERING, LLC AND SHALL BE RETURNED TO THEM UPON COMPLETION OF THE CONSTRUCTION WORK. PURSUANT TO THE ARCHITECTURAL WORKS COPYRIGHT ACT OF 1990, ALL DRAWINGS, SPECIFICATIONS, IDEAS AND DESIGNS, INCLUDING THE OVERALL FORM, ARRANGEMENT AND COMPOSITION OF SPACES AND ELEMENTS APPEARING HEREIN CONSTITUTE THE ORIGINAL, COPYRIGHTED WORK OF ARIZONA PINNACLE ENGINEERING, LLC. ANY/ OR ITS CONSULTANT. ANY REPRODUCTION, USE, OR DISCLOSURE OF INFORMATION CONTAINED HEREIN WITHOUT PRIOR WRITTEN CONSENT FROM ARIZONA PINNACLE ENGINEERING, LLC IS STRICTLY PROHIBITED. COPYRIGHT 2022, ARIZONA PINNACLE ENGINEERING, LLC.



SOUTHERN AVENUE
(PUBLIC ROADWAY)

PHOTOMETRY PLAN

SCALE: 1" = 20'-0"

MV-30001-VW-W40

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Manufacturer	Model	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
⊞	1	L21	Single	EXO	SG1-10-4K	0.900	1424	11.4	11.4
⊞	13	L4	Single	LUMIERE	9004-DOWN-RW-M-L2-UNV	0.900	1035	10	130
⊞	4	L7	Single	PRESCOLITE	LFR-4RD-M-10L40K8-DM1_LFR-4RD-T-SH-WTPML	0.900	639	7.6	30.4
⊞	3	SL1	Single	BEACON PRODUCTS	VP-1-160L-50-4K7-4W	0.900	7186	50.5	151.5
⊞	1	SL2	Single	BEACON	VP-1-160L-50-4K7-50W	0.900	7357	50.5	50.5
⊞	1	SL3	Single	BEACON	VP-1-160L-50-4K7-4F	0.900	7895	50.5	50.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Entry North Top 1	Illuminance	Fc	10.80	12.2	9.5	1.14	1.28
Entry South Top 1	Illuminance	Fc	9.18	12.4	5.5	1.67	2.25
Exit West Top 1	Illuminance	Fc	6.80	9.1	4.5	1.51	2.02
Parking Top	Illuminance	Fc	0.93	2.2	0.2	4.65	11.00
Property Line	Illuminance	Fc	0.23	0.5	0.0	N.A.	N.A.
Sidewalk Top	Illuminance	Fc	1.21	6.4	0.1	12.10	64.00

RETAIL BANKING CENTER
1216 WEST SOUTHERN AVENUE, MESA, ARIZONA 85202



28 JUNE 2023 PLANNING REVIEW COMMENTS

APM
architecture
3003 NORTH CENTRAL AVENUE, SUITE 11600, 998.0709
PHOENIX, ARIZONA 85012
apmi.com



DRAWN TD
DATE 29.MAY.2023
PROJECT 22161.00

PHOTOMETRY PLAN



EP1.0

THIS DRAWING IS PROVIDED AS AN INSTRUMENT OF SERVICE BY ARIZONA PINNACLE ENGINEERING, LLC AND IS INTENDED FOR USE ON THIS PROJECT ONLY. THIS DRAWING REMAINS THE PROPERTY OF ARIZONA PINNACLE ENGINEERING, LLC AND SHALL BE RETURNED TO THEM UPON COMPLETION OF THE CONSTRUCTION WORK. PRESUMPTIVE TO THE ARCHITECTURAL WORKS COPYRIGHT ACT OF 1990. ALL DIMENSIONS, SPECIFICATIONS, IDEAS AND DESIGNATIONS INCLUDING THE OVERALL FORM, ARRANGEMENT AND COMPOSITION OF SPACES, INCLUDING APPEARING HEREIN CONSTITUTE THE ORIGINAL, COPYRIGHTED WORK OF ARIZONA PINNACLE ENGINEERING, LLC. ANY/ OR ITS CONSULTANT. ANY REPRODUCTION, USE, OR DISCLOSURE OF INFORMATION CONTAINED HEREIN WITHOUT PRIOR WRITTEN CONSENT FROM ARIZONA PINNACLE ENGINEERING, LLC IS STRICTLY PROHIBITED. COPYRIGHT 2022, ARIZONA PINNACLE ENGINEERING, LLC.

TYPE 'L7'

FEATURES

- 4" LED downlight delivering 1000-6000 lumens
- Direct install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Five beam distributions
- 2700K-5000K, 80° and 90° CRI (2 SDCM)
- Dimming protocols include 0-10V, Phase (Forward/Reverse), DALI, DMX, and Lutron Ecosystem
- NX Lighting Controls wired and wireless controls capability available

CONTROL TECHNOLOGY

SPECIFICATIONS

CONSTRUCTION

- Standard Fixture Module designed for Non-IC, Direct Install construction
- Optional Non-IC frame or IC housing available with pre-installed bar hangers
- Die cast aluminum fixture module support ring with spring steel clips for secure mounting to ceiling
- Driver J-Box can be installed and accessed from below the ceiling as direct install or easily snap on to optional housing trans enclosure
- Light Engine connections use plenum rated (CMPF) cable

OPTICS

- High purity spun aluminum reflector, self-flanged
- 52" visual cutoff to source image and 3P° cutoff to source
- Specular or Semi-Specular anodized or White painted cone reflector finish/colors
- Painted flange options in White or Black
- Optional clear lens trim for wet location applications
- Wide Angle and Soft Focus lens filter/dip accessories available

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #:

LITEFRAME 4" ROUND DOWNLIGHT

LITEFRAME 2.0

SERVICE PROGRAMS

STOCK

CURRENT LIGHTING

CURRENTLIGHTING.COM/PRESCOLITE

Page 1 of 8
Rev: 03/2022
PFE_LFR-4RD_Spec_R02

TYPE 'L21'

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
- Krunkle and trunion accessory mounting kits available for flood applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient

CONTROL TECHNOLOGY

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 weight
- 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

- Slide hinge allows for easy installation and wiring
- Slide 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 conduit hubs for surface conduit provided

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #:

SLING Series
SLENDER WALL-PACK

tradeSELECT

CURRENT LIGHTING

CURRENTLIGHTING.COM/EXO

Page 1 of 8
Rev: 03/2022
SLA_SLING_Spec_R01

TYPE 'L4'

DESCRIPTION

Lanterna 9004-W1 (Up or Down) and 9004-W2 (Up and Down) are 4.25" O.D., line voltage cylinder fixtures with dimmable LED. The luminaires come in various mountings, surface mount with integral driver in the housing, remote driver mount with round and square wall plates and square wall integral driver, all of which can be mounted over standard 4 inch boxes. The luminaire also comes with various field replaceable optics and premium color tuning options. It also comes with various lens, louvers and colors or dichroic filters, which can combine up to two at once to create multiple lighting effects. The fixture may be used indoors or outdoors and carries IP66 rating.

SPECIFICATION FEATURES

Material
Housing, hood and mounting stem are precision-machined from corrosion resistant 6061-T6 aluminum.

Finish
Fixtures constructed from 6061-T6 aluminum are double protected by an ROHS compliant chemical film undercoating and polyester powder coat paint finish, surpassing the rigorous demands of the outdoor environment. A variety of standard colors are available.

Head
Hood is removable and accepts up to two internal accessories at once: lenses, louvers and filters) to achieve multiple lighting effects. Weep holes prevents water and mineral stains from collecting on the lens, even in the straight up position. The flush lens design reduces fixture length, minimize debris collection and prevents water and mineral stains from collecting on the lens.

Electrical
Housing and hood are sealed with a high temperature silicone O-ring gasket to prevent water intrusion.

Lens
Tempered glass lens, factory sealed with high temperature silicone O-ring to prevent water intrusion and leakage due to thermal shock.

Hardware
Stainless steel hardware is standard to provide maximum corrosion resistance.

Electrical
Long life LED system coupled with electronic driver (120-277V/50-60Hz) is compatible with TRIAC (trailing edge), ELV (Forward phase) and 0-10V dimming to deliver optimal performance. Light can be dimmed from 100-1% while maintaining constant CCT. It will operate in -30°C to 50°C unless noted otherwise. The driver incorporates surge protection. LEDs are available in 2700K, 3000K, 3500K at 90CRI and 87CRI, 4000K at 80CRI and 87CRI, 5000K at 80CRI and 87CRI.

Lumiere

Project	Type
Comments	Date
Prepared by	

ORDERING INFORMATION

DOMESTIC PREPARED BY	SERIES	DIRECTION	HOOD	LED CCT & BR	FIELD ALL OPTICS	FIELD FINISH	FIELD LIGHT LEVEL	VOLTAG	MOUNTING	OPTIONS
Trade/Contract	9004	W1	Up or Down	Recessed	Standard	Clear	1000	120/277	Surface Mount	Wet, Corros, Sealed, 5700K, Stand, Stone, Integral, Sensor
Wholesale/Reseller	9004	W2	Up and Down	Recessed	Standard	Clear	1000	120/277	Surface Mount	Wet, Corros, Sealed, 5700K, Stand, Stone, Integral, Sensor

KEY DATA

Lumen Range	2262-8079
Wattage Range	21-80
Efficacy Range (LPW)	101-135
Reported Life (Hours)	130,000
Input Current (mA)	66-450 (270V)

CURRENT LIGHTING

CURRENTLIGHTING.COM/EXO

Page 1 of 8
Rev: 03/2022
SLA_SLING_Spec_R01

TYPES 'SL1', 'SL2', 'SL3'

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial and campus parking lots
- Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction
- Rated for high vibration applications including bridges and overpasses. All sizes are rated for I5G
- Control options including photo control, occupancy sensing, NX Lighting Controls, wSCAPE and 7-Pin with networked controls
- New customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
- Field interchangeable mounting provides additional flexibility after the fixture has shipped

CONTROL TECHNOLOGY

SPECIFICATIONS

CONSTRUCTION

- Die-cast housing with hidden vertical heat fins are optimal for heat dissipation while keeping a clean smooth outer surface
- Corrosion resistant die-cast aluminum housing with 1000 hour powder coat paint finish
- External hardware is corrosion resistant

OPTICS

- Micro Strike Optics (860, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface and provide a low glare appearance. Catalog logic found on page 2
- Strike Optics (86, 72, 108, or 162 LED counts) provide best in class distributions and maximum pole spacing in new applications with high powered LEDs. Strike optics are held in place with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog logic found on page 3
- Both optics maximize target zone illumination with minimal losses at the house side reducing light trespass issues. Additional backlight control shields and house side shields can be added for further reduction of illumination behind the pole
- One-piece silicone gasket ensures a weathertight seal
- Zero up-light at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Mounting patterns for each arm can be found on page 11
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option (ASCU) or accessory for square and round poles
- All mounting hardware included

DATE: _____ LOCATION: _____

TYPE: _____ PROJECT: _____

CATALOG #:

VIPER Area/Site
VIPER LUMINAIRE

MicroSTRIKE | STRIKE

CURRENT LIGHTING

CURRENTLIGHTING.COM/BEACON

Page 1 of 8
Rev: 03/2022
SLA_VIPER_Spec_R04

* LIGHT POLE DETAIL

NTS

NOTE: THIS DETAIL IS SHOWN FOR ELECTRICAL INFORMATION ONLY. THE POLE/FIXTURE MANUFACTURER SHALL PROVIDE STRUCTURAL CALCULATIONS.

CURRENT LIGHTING

CURRENTLIGHTING.COM/BEACON

Page 1 of 8
Rev: 03/2022
SLA_VIPER_Spec_R04

RETAIL BANKING CENTER
1216 WEST SOUTHERN AVENUE, MESA, ARIZONA 85202

CHASE

28-JUNE-2023 PLANNING REVIEW COMMENTS

APM1
architecture
3003 NORTH CENTRAL AVENUE, SUITE 11600, PHOENIX, ARIZONA 85012
980.998.0709
apm1.com



DRAWN: TD
DATE: 29.MAY.2023
PROJECT: 22161.00

PHOTOMETRY PLAN CUTSHEETS

AZPE
ARIZONA PINNACLE ENGINEERING
2222 W. Pinnacle Peak Road, Suite 290
(623) 594-9049 Project: 23115

EP1.1