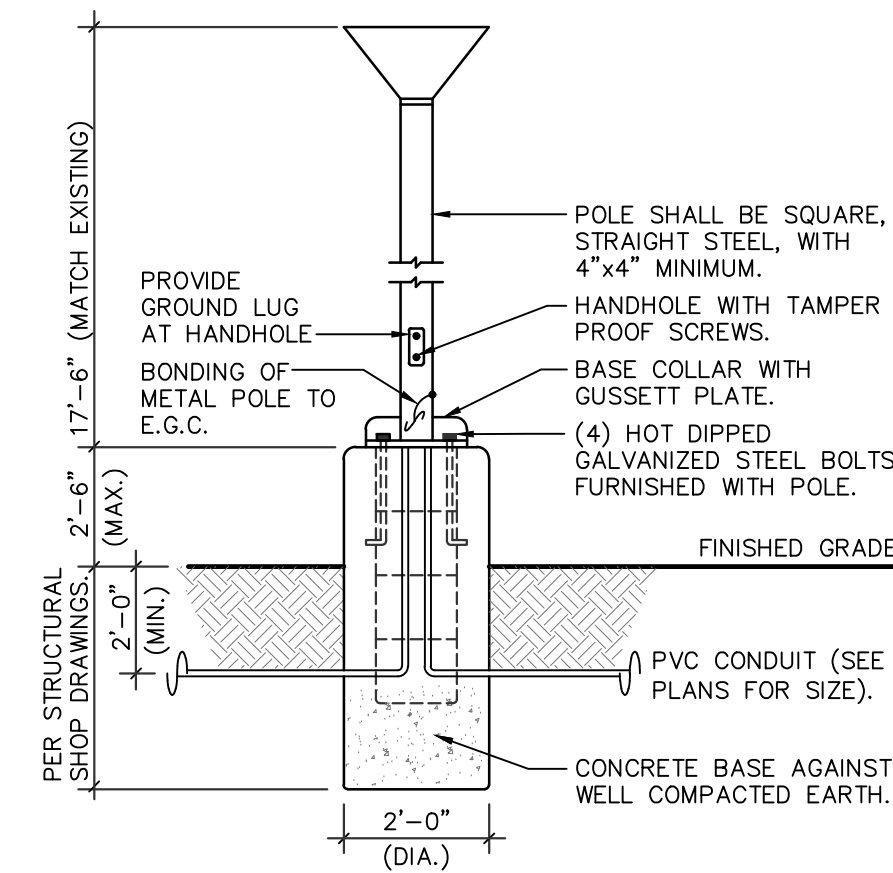


POLE MOUNTED FIXTURE DETAIL



FIXTURE TYPE "SA"

THE POLE CONCRETE BASE DETAIL IS SHOWN FOR ELECTRICAL ROUGH-IN AND SHALL NOT BE USED FOR THE ACTUAL BASE CONSTRUCTION. POLE BASE SHALL BE DESIGNED BY A REGISTERED STRUCTURAL PROFESSIONAL ENGINEER AND CONSTRUCTED PER STRUCTURAL ENGINEERS SEALED CONSTRUCTION DOCUMENT.

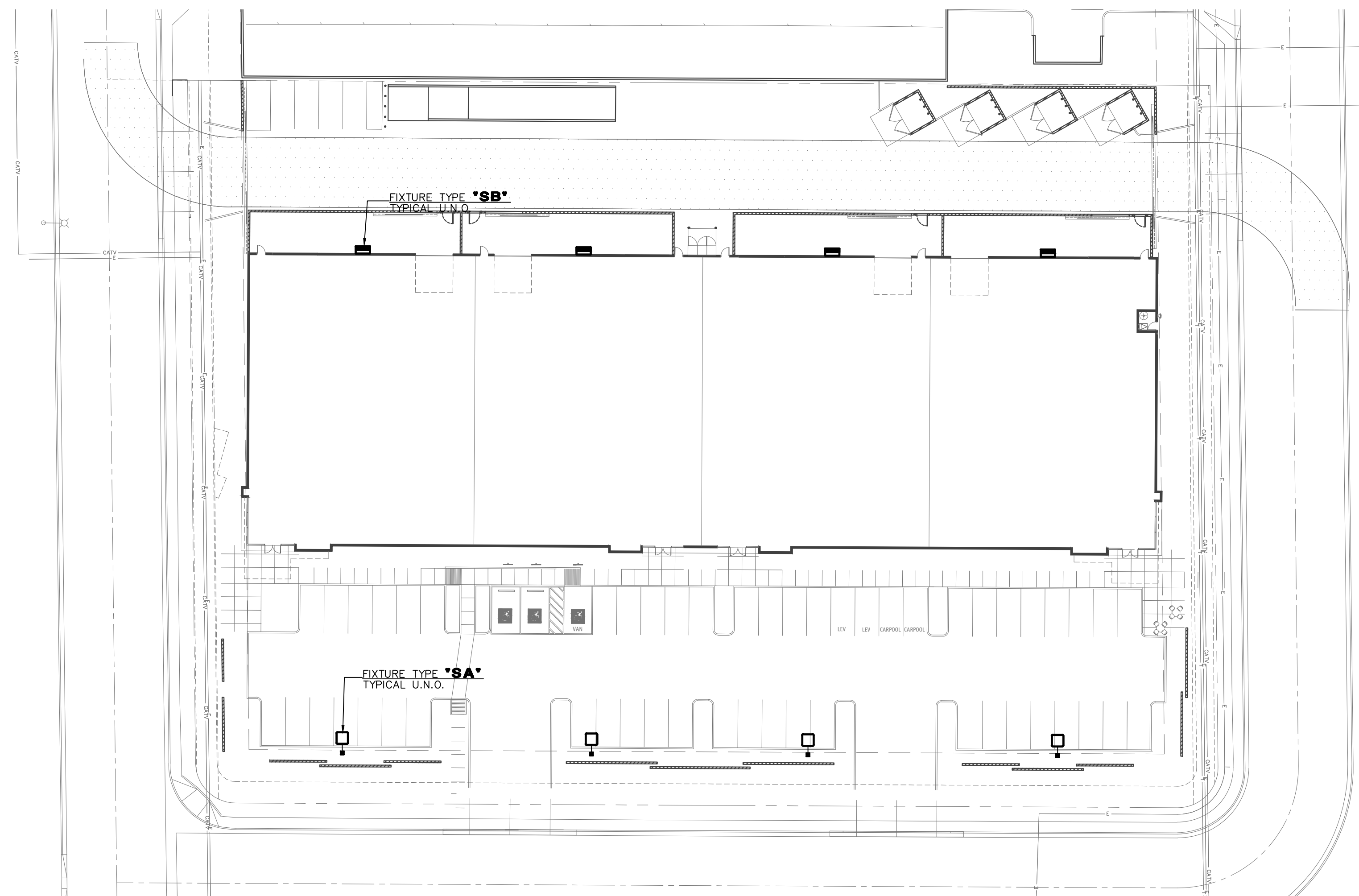
NOTE: ELECTRICAL CONTRACTOR SHALL BOND METAL POLE PER NEC 410.30(B)(5) AS SHOWN IN DETAIL.

LUMINAIRE SCHEDULE

1. PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
2. MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
3. BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
4. ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
5. PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CR/ CCT INPUT WATTS	REMARKS/MOUNTING
SA	BEACON VP-ST-2-72L-180-4K7-4F-BC	UNV	LED 70CRI/4000K 180W	SINGLE HEAD POLE MOUNTED LED PARKING LOT FIXTURE. REFER TO THE POLE DETAIL ON THIS SHEET.
SB	BEACON RWL2-160L-115-4K-4F	UNV	LED 70CRI/4000K 115W	LED WALLPACK MOUNTED 20' AFG.

NOTE: PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NOT LESS THAN 30% DURING POST-CURFEW TO COMPLY WITH IECC 2018 0405.2.6. EXTERIOR LIGHTING CONTROLS.

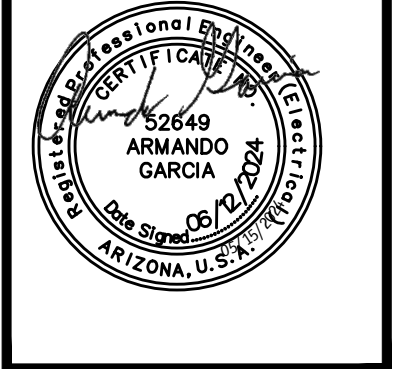


 **ELECTRICAL SITE LIGHTING PLAN**
1/32" = 1'-0"



730 N. 52nd St. Ste. 203
Phoenix, Arizona 85008
P 602.393.5060

CawleyArchitects.com



A NEW BUILDING FOR:
CLYDE CAPITAL

NE CORNER OF
S. SATWOOD & E. WINNSTON AVE.
MESA
ARIZONA
85212

DATE
DESIGN REVIEW
06/13/2024

DRAWN BY: KL

OWNERSHIP OF DOCUMENTS:
This drawing, including the architectural concept, design, and data, is an instrument of service and shall remain the property of Cawley Architects Inc. This drawing is for use at the location described herein and shall not be used in other locations. Any other use or release of these drawings may result in civil damages.

DISCREPANCIES AND CONFLICTS:
All discrepancies found in these documents or conflicts between these documents and field conditions shall be reported to Cawley Architects Inc. for resolution before the commencement of the work.

ELECTRICAL SITE LIGHTING PLAN

Project: 23083

DR1.0

DESIGN CODES
IECC: 2018 NEC: 2017

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

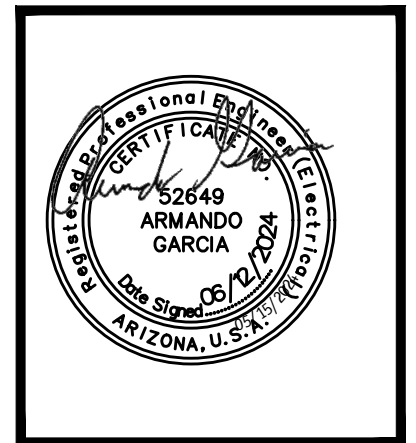
PRELIMINARY NOT FOR CONSTRUCTION

Project Contact/Designer: **Kade Lemons**
Project #24051

HAWKINS DESIGN GROUP INC.
ELECTRICAL CONSULTING ENGINEERS
190 WEST HAWWEL ROAD
CLERBT, ARIZONA 85233
Ph 480.813.9000 Fax 480.813.9001
EMAIL: email@hawkinsdg.com

All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc., and shall not be used for any other purpose other than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 24x36 THEY ARE NOT FULL SIZE



A NEW BUILDING FOR:
CLYDE CAPITAL

NE CORNER OF
S. SATWOOD & E. WINNSTON AVE.
MESA
ARIZONA
85212

DATE
DESIGN REVIEW
06/13/2024

DRAWN BY: KL

OWNERSHIP OF DOCUMENTS:
This drawing, including the architectural concept, design, and data, is an instrument of service and shall remain the property of Cawley Architects Inc. This drawing is for use at the location described herein and shall not be used in other locations. Any other use or release of these drawings may result in civil damages.

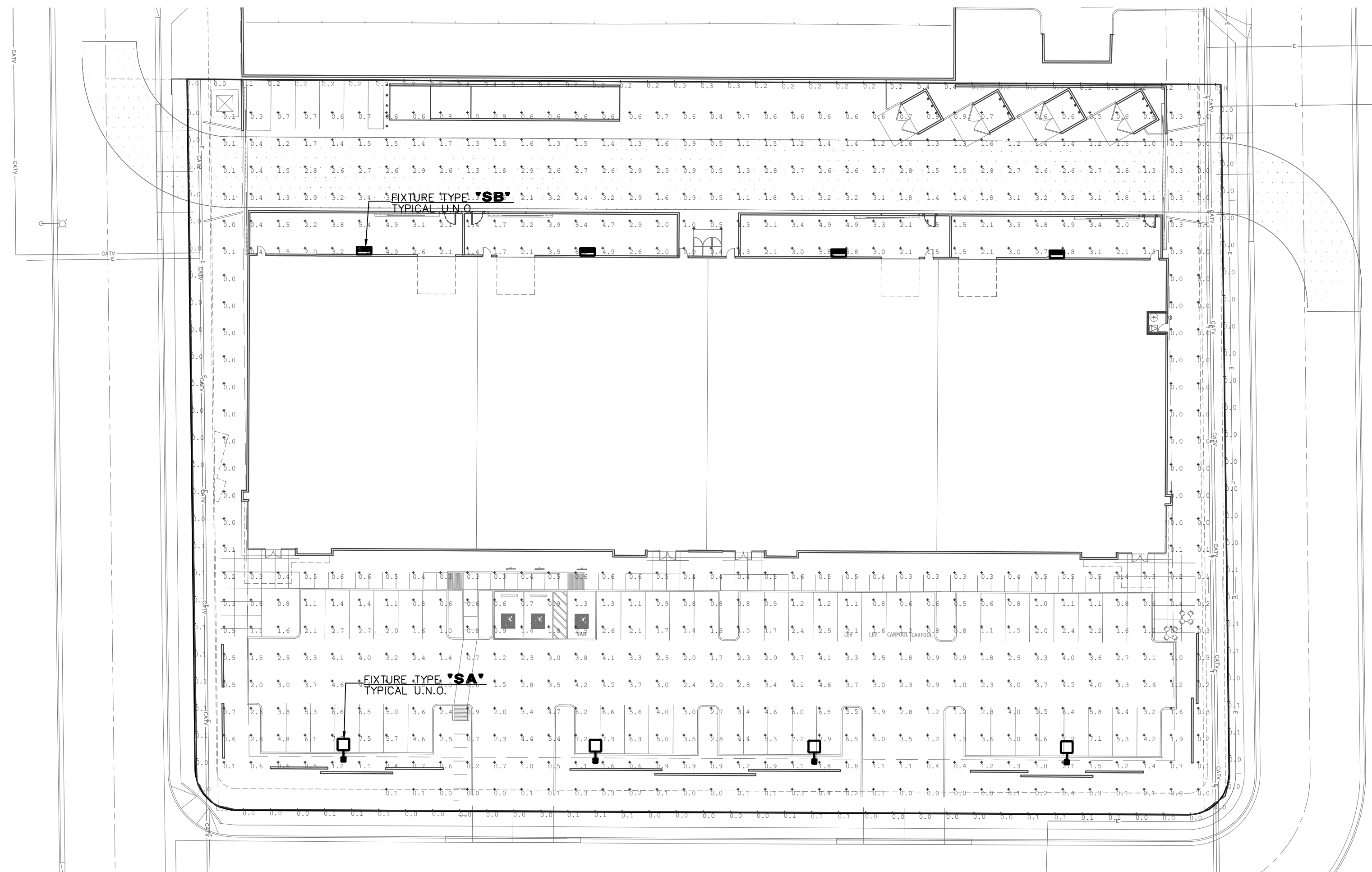
DISCREPANCIES AND CONFLICTS:
All discrepancies found in these documents or conflicts between these documents and field conditions shall be reported to Cawley Architects Inc. for resolution before the commencement of the work.

ELECTRICAL SITE LIGHTING PLAN - PRE CURFEW PHOTOMETRICS

Project: 23083
DR2.0

Luminaire Schedule										
Qty	Label	Symbol	[MANUFAC]	Description	MH	Lumens	LLF	Watts	Total Watts	BUG Rating
4	SA	☐	BEACON	VP-ST-2-72L-180-4K7-4F-BC	20'	19111	0.900	180	720	B1-U0-G4
4	SB	☐	BEACON	RWL2-160L-115-4K-4F	20'	14740	0.900	115	460	B2-U0-G2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.09	0.4	0.0	N.A.	N.A.
Site	Illuminance	Fc	1.84	7.9	0.0	N.A.	N.A.



NOTE:
PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NOT LESS THAN 30% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING CONTROLS.

ELECTRICAL SITE LIGHTING PLAN - PRE CURFEW PHOTOMETRICS
1/32" = 1'-0"

DESIGN CODES
IECC: 2018 NEC: 2017

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

Project Contact/Designer: **Kade Lemons**
Project #24051

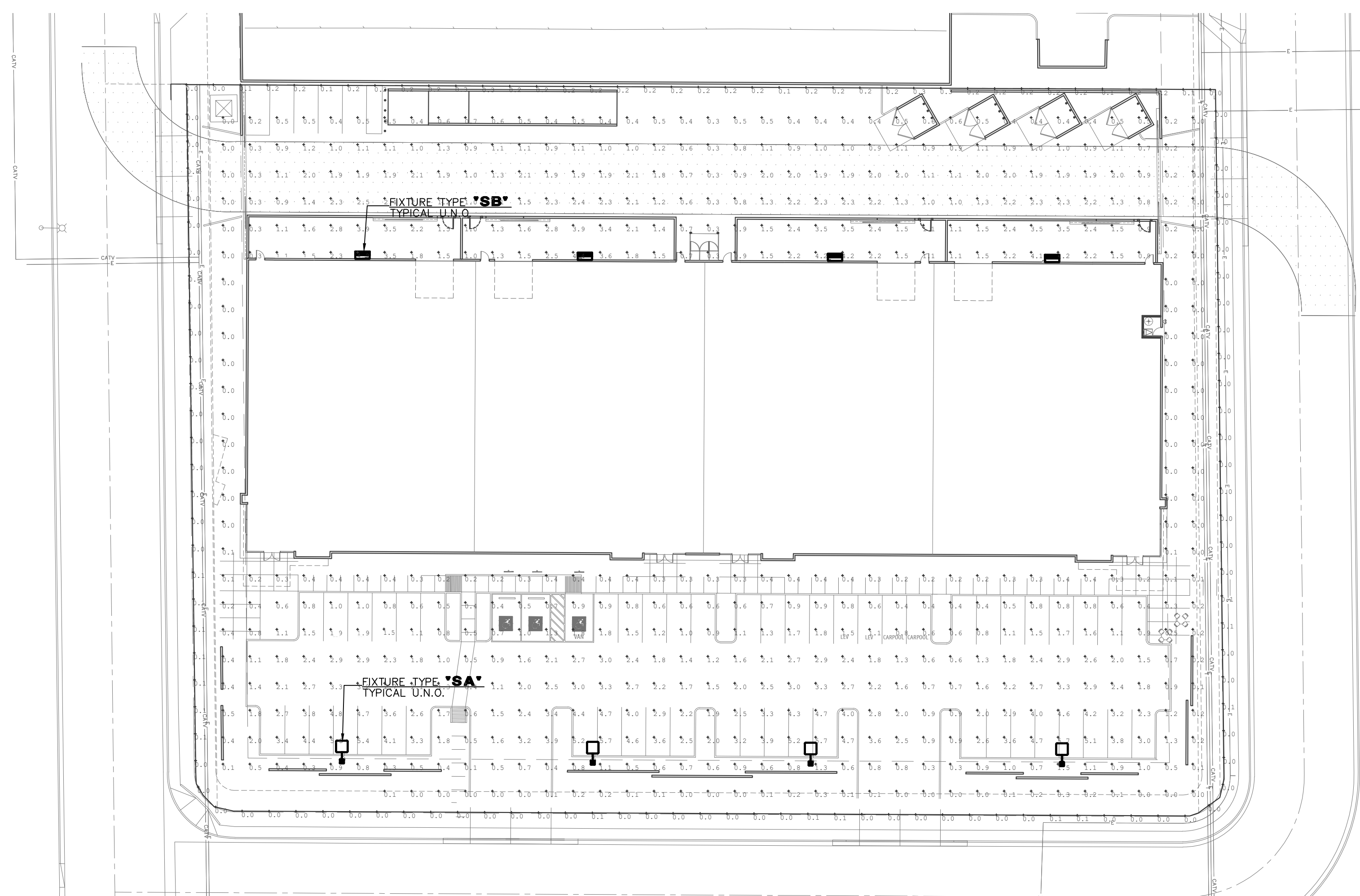
HAWKINS DESIGN GROUP INC.
ELECTRICAL CONSULTING ENGINEERS
190 WEST HARWEL ROAD
CLERKT, ARIZONA 85233
Ph. 480.813.9000 Fax. 480.813.9001
EMAIL: email@hawkinsdsg.com

All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc. and shall not be used for any other purpose other than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 24x36 THEY ARE NOT FULL SIZE

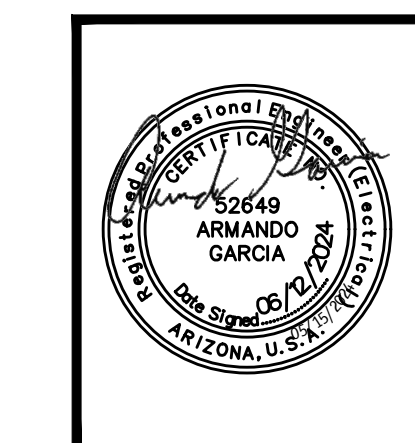
Luminaire Schedule										
Qty	Label	Symbol	(MANUFAC)	Description	MH	Lumens	LLF	Watts	Total Watts	BUG Rating
4	SA	☐	BEACON	VP-ST-2-72L-180-4K7-4F-BC	20'	19111	0.650	180	720	B1-U0-G4
4	SB	☐	BEACON	RWL2-160L-115-4K-4F	20'	14740	0.650	115	460	B2-U0-G2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.07	0.3	0.0	N.A.	N.A.
Site	Illuminance	Fc	1.33	5.7	0.0	N.A.	N.A.



NOTE:
PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENINGS. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NOT LESS THAN 30% DURING POST-CURFEW TO COMPLY WITH IECC 2018 C405.2.6. EXTERIOR LIGHTING CONTROLS.

ELECTRICAL SITE LIGHTING PLAN - DIMMED PHOTOMETRICS
1/32" = 1'-0"



A NEW BUILDING FOR:
CLYDE CAPITAL

NE CORNER OF
S. SATWOOD & E. WINNSTON AVE.
MESA
ARIZONA
85212

DATE
DESIGN REVIEW
06/13/2024

DRAWN BY: KL

OWNERSHIP OF DOCUMENTS:
This drawing, including the architectural concept, design, and data, is an instrument of service and shall remain the property of Cawley Architects Inc. This drawing is for use at the location described herein and shall not be used in other locations. Any other use or release of these drawings may result in civil damages.

DISCREPANCIES AND CONFLICTS:
All discrepancies found in these documents or conflicts between these documents and field conditions shall be reported to Cawley Architects Inc. for resolution before the commencement of the work.

DESIGN CODES
IECC: 2018 NEC: 2017

PRELIMINARY
NOT FOR CONSTRUCTION

ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

Project Contact/Designer: **Kade Lemons**
Project #24051

HAWKINS DESIGN GROUP INC.
ELECTRICAL CONSULTING ENGINEERS
190 WEST HARWEL ROAD
CLERKT, ARIZONA 85233
Ph: 480.813.9000 Fax: 480.813.9001
EMAIL: email@hawkinsdsg.com

All concepts, designs and data indicated on these drawings are the sole property of the Hawkins Design Group Inc. and shall not be used for any other purpose other than originally intended without written permission of the engineer.

IF DRAWING IS NOT PLOTTED AT 24x36 THEY ARE NOT FULL SIZE

ELECTRICAL SITE LIGHTING PLAN - DIMMED PHOTOMETRICS

Project: 23083

DR3.0

DATE: LOCATION: TYPE: **'SA'** PROJECT: CATALOG #:

BEACON VIPER Area/Site

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 15G.
Control options including photo control, occupancy sensing, NX Lighting Controls™, LightGRID+ 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.



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 (60, 320, 480, or 720 LED counts) maximize uniformity in applications and come standard with mid-power LEDs which evenly illuminate the entire luminous surface area to provide a low glare experience. Catalog log# found on page 2.
Strike Optics (6, 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 field replaceable with a polycarbonate bezel to mimic the appearance of the Micro Strike Optics so both solutions can be combined on the same application. Catalog log# 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 weatherproof seal.
Zero up-light at 0 degrees of tilt.
Field rotatable optics.
INSTALLATION
Mounting patterns for each arm can be found on page 1.
Optional universal mounting back for ease of installation during retrofit applications. Available as an option (ASU) or accessory for square and round poles.
All mounting hardware included.
Knuckle arm filter option available for 2-3/8" OD tubing.
For products with EPA less than 1 mounted to a pole greater than 20ft, a vibration damper is recommended.

DATE: LOCATION: TYPE: PROJECT: CATALOG #: Example: VP-2-320L-145-3K7-2-UNV-A3-BLT

Table with columns: VP Series, Optic Platform, Size, Light Engine, CCT/CRI, Distribution, Optic Rotation, Voltage. Lists various configurations for the Viper Area/Site luminaire.

Table with columns: Mounting, Color, Options, Network Control Options. Details mounting types, finishes, and control options for the luminaire.

1- Items with a grey background can be done as a custom order. Contact brand representative for more information.
2- Backbox - "with T" for 3.5" x 4.0" OD pole, "4" for 4.0" x 5.25" OD pole, "5" for 5.5" x 6.5" OD pole
3- Backward Control cannot be combined with other control options
4- Not available with 2PR option
5- Not available with Dual Driver option
6- Some voltage restrictions may apply when combined with controls
7- Not available with 480V
8- BC not available on 4P and type 5 distributions
9- At least one SCREMONTE required to program SCP motion sensor. Must select B1 or 40K.

DATE: LOCATION: TYPE: **'SB'** PROJECT: CATALOG #:

HUBBELL Outdoor Lighting RATIO Wall

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount.
Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues.
Visual comfort standard.
Control options including photo control, occupancy sensing, NX Distributed Intelligence™, WISCAPE and 7-Pin with networked controls.
Battery Backup options available for emergency code compliance.
Quick-mount adapter allows easy installation/maintenance.
347V and 480V versions for industrial applications and Canada.
Stock versions available in 3500lm and 5500lm configurations at 4000K.



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.
Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating.
OPTICS
Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance.
48 or 162 mid-power LEDs.
3000K, 4000K or 5000K (70 CR/80 CRI) CCT.
Zero uplight distributions.
LED optics provide IES type II, III and IV distributions. Type II only available in RWL2 configurations.
7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (accessories sold separately).
NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor.
WISCAPE™ available with in fixture wireless control module, features dimming and occupancy sensor.
Integral Battery Backup provides emergency lighting for the required 90 minute path of egress.
BATTERY
347V and 480V dimmable driver option for all wattages above 35W.

KEY DATA table with columns: Lumen Range, Wattage Range, Efficacy Range (LPW), Fixture Projected Life (Hours), Weights lbs. (kg).

DATE: LOCATION: TYPE: PROJECT: CATALOG #: Example: RWL1-48L10-3K7-2-UNV-BS-E

Table with columns: RWL1 Ratio Wall 1, RWL2 Ratio Wall 2. Lists configurations for the Ratio Wall luminaire.

Table with columns: Series, # LEDs - Wattage, CCT/CRI, Distribution, Voltage, Color. Lists various configurations for the Ratio Wall luminaire.

Table with columns: Catalog Number, Lumens, Wattage, LED Count, CCT/CRI, Voltage, Distribution, Finish. Lists specific luminaire models and their specifications.

Table with columns: Catalog Number, Description. Lists accessories for the luminaire.



PHOTOMETRY
RATIO BIOCHAMBER
RATIO AREA
RATIO FLOOD
RATIO FLOOD
RATIO FLOOD
RATIO FLOOD
RATIO FLOOD

DATE: LOCATION: TYPE: PROJECT: CATALOG #: Example: RWL1-48L10-3K7-2-UNV-BS-E

Table with columns: RWL1 Ratio Wall 1, RWL2 Ratio Wall 2. Lists configurations for the Ratio Wall luminaire.

Table with columns: Series, # LEDs - Wattage, CCT/CRI, Distribution, Voltage, Color. Lists various configurations for the Ratio Wall luminaire.

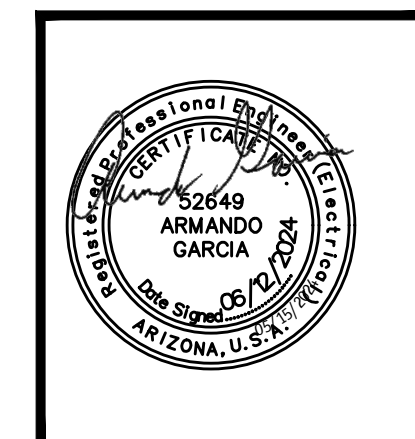
Table with columns: Catalog Number, Lumens, Wattage, LED Count, CCT/CRI, Voltage, Distribution, Finish. Lists specific luminaire models and their specifications.

Table with columns: Catalog Number, Description. Lists accessories for the luminaire.



730 N. 52nd St. Ste. 203 Phoenix, Arizona 85008 P 602.393.5060

CawleyArchitects.com



A NEW BUILDING FOR: CLYDE CAPITAL

NE CORNER OF SATWOOD & E. WINNSTON AVE. MESA ARIZONA 85212

DATE DESIGN REVIEW 06/13/2024

DRAWN BY: KL

OWNERSHIP OF DOCUMENTS: This drawing, including the architectural concept, design, and data, is an instrument of service and shall remain the property of Cawley Architects Inc. This drawing is for use at the location described herein and shall not be used in other locations. Any other use or release of these drawings may result in civil damages.

DISCREPANCIES AND CONFLICTS: All discrepancies found in these documents or conflicts between these documents and field conditions shall be reported to Cawley Architects Inc. for resolution before the commencement of the work.

ELECTRICAL CUTSHEETS

Project: 23083 DR4.0

DESIGN CODES IECC: 2018 NEC: 2017
ELECTRICAL CONTRACTOR SHALL NOTIFY DESIGNER/ENGINEER PRIOR TO ANY DEVIATION FROM THIS SET OF ELECTRICAL DESIGN PLANS. ANY CHANGES TO THE DESIGN, IF APPROVED BY ENGINEER, WILL REQUIRE REVISIONS TO PLANS AND POSSIBLE ADDITIONAL SERVICE FEE.

Hawkins Design Group Inc. Project #24051
ELECTRICAL CONSULTING ENGINEERS
194 WEST HAWWELL ROAD
CLERF, ARIZONA 85233
Ph 480.813.9000 Fax 480.813.9001
EMail: email@hawkinsdg.com

IF DRAWING IS NOT PLOTTED AT 24x36 THEY ARE NOT FULL SIZE