

**Marked Agendas  
Approved Minutes  
Approved Reports**

**The August 16, 2018  
Development Review Board  
Meeting Agenda and  
Minutes can be found at**

<http://www.scottsdaleaz.gov/boards/development-review-board>

# DEVELOPMENT REVIEW BOARD REPORT



Meeting Date: August 16, 2018 Item No. 4  
General Plan Element: *Character and Design*  
General Plan Goal: *Foster quality design that enhances Scottsdale as a unique southwestern desert community.*

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## **ACTION**

### **Stamper Hangar 49-DR-2017**

**Location:** 16061 North 81<sup>st</sup> Street

**Request:** Request approval of the site plan, landscape plan, and building elevations for a new airport hangar with approximately 11,140 square feet of building area, and support office development with approximately 5,950 square feet of building area, on a 1.2-acre site.

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## **OWNER**

Ariztar, LLC

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## **ARCHITECT/DESIGNER**

Larson Associates

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## **ENGINEER**

Trapezium Consulting Group

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## **APPLICANT CONTACT**

James Larson  
Larson Associates Architects, Inc.  
602-955-9929

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## **BACKGROUND**

### **Zoning**

This site is zoned Industrial Park (I-1) district. The I-1 district is intended to provide light manufacturing, aeronautical, light industrial, office, and supportive uses to sustain and enhance major employment opportunities.

### **Context**

This site is located along the east side of North 81<sup>st</sup> Street, south of East Frank Lloyd Wright Boulevard and east of North Greenway-Hayden Loop. This property abuts the airport taxi lane along its east boundary.

### **Adjacent Uses and Zoning**

- North Vacant property with taxi lane access, zoned Industrial Park (I-1) district.

- South Airpark commercial businesses with taxi lane access, zoned Industrial Park (I-1) district.
- East Airpark commercial businesses with taxi lane access, zoned Industrial Park (I-1) district.
- West Airpark commercial businesses with taxi lane access, zoned Industrial Park (I-1) district.

**Key Items for Consideration**

- New aircraft hangar in the airpark with taxi lane access

**DEVELOPMENT PROPOSAL**

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**Goal/Purpose of Request**

The applicant is requesting to construct a new two-story aircraft hangar building with associated office space, on a currently vacant parcel with airport taxi lane access.

**Neighborhood Communication**

The applicant and the City have provided notification to property owners within 750 feet of the project site as part of this application process. No public comment has been received as of the writing of this report.

**DEVELOPMENT REVIEW BOARD CRITERIA ANALYSIS**

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This site falls within the Greater Airpark Character Area and is identified within the Aviation category on the land use plan. The proposed aircraft hangar provides a land use consistent with the goals and policies of the character area plan, providing aviation and supporting land uses.

The office space component of the building is located on the north side of the building and provides first and second story windows and second story balcony space that helps create a human scale transition from the parking lot and street frontage into the two-story massing of the aircraft hangar space. The building design uses a mix of materials and horizontal forms, including concrete tilt panels, metal accents, and glass provide variation to the box-massing typically driven by the function of an aircraft hangar. The building’s mechanical equipment is proposed to be located within a roof top screened area integrated into the northeast corner of the second floor of the building, instead of being located on the roof top of the second story of the building.

**Development Information**

- |                             |                     |
|-----------------------------|---------------------|
| • Existing Use:             | Vacant land         |
| • Proposed Use:             | New aircraft hangar |
| • Parcel Size:              | 1.35 gross acres    |
|                             | 1.2 net acres       |
|                             | 52,527 square feet  |
| • Aircraft hangar space:    | 11,140 square feet  |
| • Office space:             | 5,950 square feet   |
| • Total Building Area:      | 17,090 square feet  |
| • Floor Area Ratio Allowed: | 0.80                |

- Scottsdale Development Review Board Report | Case No. 15 DR 2017
- Floor Area Ratio Proposed: 0.35
  - Building Height Allowed: 52 feet, including rooftop appurtenances
  - Building Height Proposed: 42 feet 6 inches, including rooftop appurtenances
  - Parking Required: 17 spaces
  - Parking Provided: 17 spaces
  - Open Space Required: 7,054 square feet / 0.16 acres
  - Open Space Provided: 7,071 square feet / 0.16 acres

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**STAFF RECOMMENDATION**

**Recommended Approach:**

Staff recommends that the Development Review Board approve Stamper Hangar per the attached stipulations, finding that the Development Review Criteria have been met.

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**RESPONSIBLE DEPARTMENT**


**Planning and Development Services**  
Current Planning Services

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**STAFF CONTACT**

Jeff Barnes  
Senior Planner  
480-312-2376  
E-mail: [jbarnes@ScottsdaleAZ.gov](mailto:jbarnes@ScottsdaleAZ.gov)

APPROVED BY

  
\_\_\_\_\_  
Jeff Barnes, Report Author

7/25/2018  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Steve Venker, Development Review Board Coordinator  
Phone: 480-312-2831 E-mail: svenker@scottsdaleaz.gov

7/31/18  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Randy Grant, Director  
Planning and Development Services  
480-312-2664, rgrant@scottsdaleaz.gov

8/1/18  
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Date

## **ATTACHMENTS**

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- A. Stipulations/Zoning Ordinance Requirements
  - 1. Context Aerial
    - 1A. Close-Up Aerial
  - 2. Zoning Map
  - 3. Applicant's Narrative
  - 4. Combined Context Aerial and Site Plan
  - 5. Site Plan
  - 6. Open Space Plan
  - 7. Building Elevations (color)
  - 8. Building Elevations (black and white)
  - 9. Perspective
  - 10. Material and Color Board
  - 11. Landscape Plans
  - 12. Electrical Site Plan
  - 13. Exterior Lighting Cutsheets

**Stipulations for the  
Development Review Board Application:  
Stamper Hangar  
Case Number: 49-DR-2017**

These stipulations are intended to protect the public health, safety, welfare, and the City of Scottsdale.

**APPLICABLE DOCUMENTS AND PLANS:**

Except as required by the Scottsdale Revised Code (SRC), the Design Standards and Policies Manual (DSPM), and the other stipulations herein, the site design and construction shall substantially conform to the following documents:

1. Architectural elements, including dimensions, materials, form, color, and texture shall be constructed to be consistent with the building elevations submitted by Larson Associates Architects, Inc., with a city staff date of 6/20/2018.
2. The location and configuration of all site improvements shall be consistent with the site plan submitted by Larson Associates Architects, Inc., with a city staff date of 6/20/2018.
3. Landscape improvements, including quantity, size, and location shall be installed to be consistent with the preliminary landscape plan submitted by Larson Associates Architects, Inc., with a city staff date of 6/20/2018.
4. The case drainage report submitted by Trapezium Consulting Group and accepted in concept by the Stormwater Management Department of the Planning and Development Services.
5. The water and sewer basis of design report submitted by Trapezium Consulting Group and accepted in concept by the Water Resources Department.

**ARCHAEOLOGICAL RESOURCES:**

**Ordinance**

- A. Any development on the property is subject to the requirements of Scottsdale Revised Code, Chapter 46, Article VI, Section 46-134 - Discoveries of archaeological resources during construction.

**ARCHITECTURAL DESIGN:**

**DRB Stipulations**

6. All exterior window glazing shall be recessed a minimum of fifty (50) percent of the wall depth, including glass windows within any tower/clerestory elements. The amount or recess shall be measured from the face of the exterior wall to the face of the glazing, exclusive of external detailing. With the final plan submittal, the developer shall provide head, jamb and sill details clearly showing the amount of recess for all window types.

7. All exterior doors shall be recessed a minimum of thirty (30) percent of the wall depth, the amount of recess shall be measured from the face of the exterior wall to the face of the glazing, exclusive of external detailing. With the final plan submittal, the developer shall provide head, jamb and sill details clearly showing the amount of recess for all door types.

**LANDSCAPE DESIGN:**

**DRB Stipulations**

8. Prior to the issuance of a building permit, the owner shall submit landscape improvement plans that demonstrate how the salvaged vegetation from the site will be incorporated into the design of the landscape improvements.

**EXTRIOR LIGHTING:**

**Ordinance**

- B. All exterior luminaires mounted eight (8) feet or higher, above finished grade, shall be directed downward.
- C. Any exterior luminaire with a total initial lumen output of greater than 1600 lumens shall have an integral lighting shield.
- D. Any exterior luminaire with a total initial lumen output of greater than 3050 lumens shall be directed downward and comply with the Illuminating Engineering Society of North America (IES) requirements for full cutoff.

**DRB Stipulations**

9. All exterior luminaires shall meet all IES requirements for full cutoff and shall be aimed downward and away from property line except for sign and landscape lighting.
10. Incorporate the following parking lot and site lighting into the project's design:
  - a. The maintained average horizontal luminance level, at grade on the site, shall not exceed 2 foot-candles. All exterior luminaires shall be included in this calculation.
  - b. The maintained maximum horizontal luminance level, at grade on the site, shall not exceed 8 foot-candles. All exterior luminaires shall be included in this calculation.
  - c. The initial vertical luminance at 6-foot above grade, along the entire property line shall not exceed 0.8 foot-candles. All exterior luminaires shall be included in this calculation.
  - d. The total lumen per luminaire shall not exceed 24,000 lumens.

**STREET INFRASTRUCTURE:**

**Ordinance**

- E. All street infrastructure improvements shall be constructed in accordance with this City of Scottsdale Supplement to MAG Specifications and Details, and the Design Standards and Policies Manual.

### **DRB Stipulations**

11. All curb ramps for public and pedestrian sidewalks that intersect public and private streets, or driveways that intersect public and private streets, shall have truncated domes that are colored to match OSHA Safety Yellow, FED-STD-595C, 13591.

### **WATER AND WASTEWATER:**

#### **DRB Stipulations**

12. Existing water and sewer service lines to this site shall be utilized or shall be disconnected at the main pursuant to the Water Resources Department requirements.
13. BASIS OF DESIGN REPORT (WATER). With the Development Review Board (DRB) submittal, the owner shall submit a Final Basis of Design Report for Water for the development project in accordance with the Design Standards and Policies Manual and obtain approval from Water Resources Department prior to DRB approval. The developer shall be responsible for any required improvements to the water system per the Final Approved Basis of Design Report.
14. BASIS OF DESIGN REPORT (WASTEWATER). With the Development Review Board (DRB) submittal, the owner shall submit a Final Basis of Design Report for Wastewater for the development project in accordance with the Design Standards and Policies Manual and obtain approval from the Water Resources Department prior to DRB approval. The developer shall be responsible for any required improvements to the wastewater system per the Final Approved Basis of Design Report.

### **DRAINAGE AND FLOOD CONTROL:**

#### **DRB Stipulations**

15. With the civil construction document submittal, the owner shall submit a final drainage report that demonstrates consistency with the DSPM and the case drainage report accepted in concept by the Stormwater Manager or designee.
16. The civil construction document submittal shall provide an underground stormwater storage tank (USST) design that complies with the USST policy in Chapter 4 of the DSPM and provides the volume required for the 100yr, 2hr storm.

### **EASEMENTS DEDICATIONS:**

#### **DRB Stipulations**

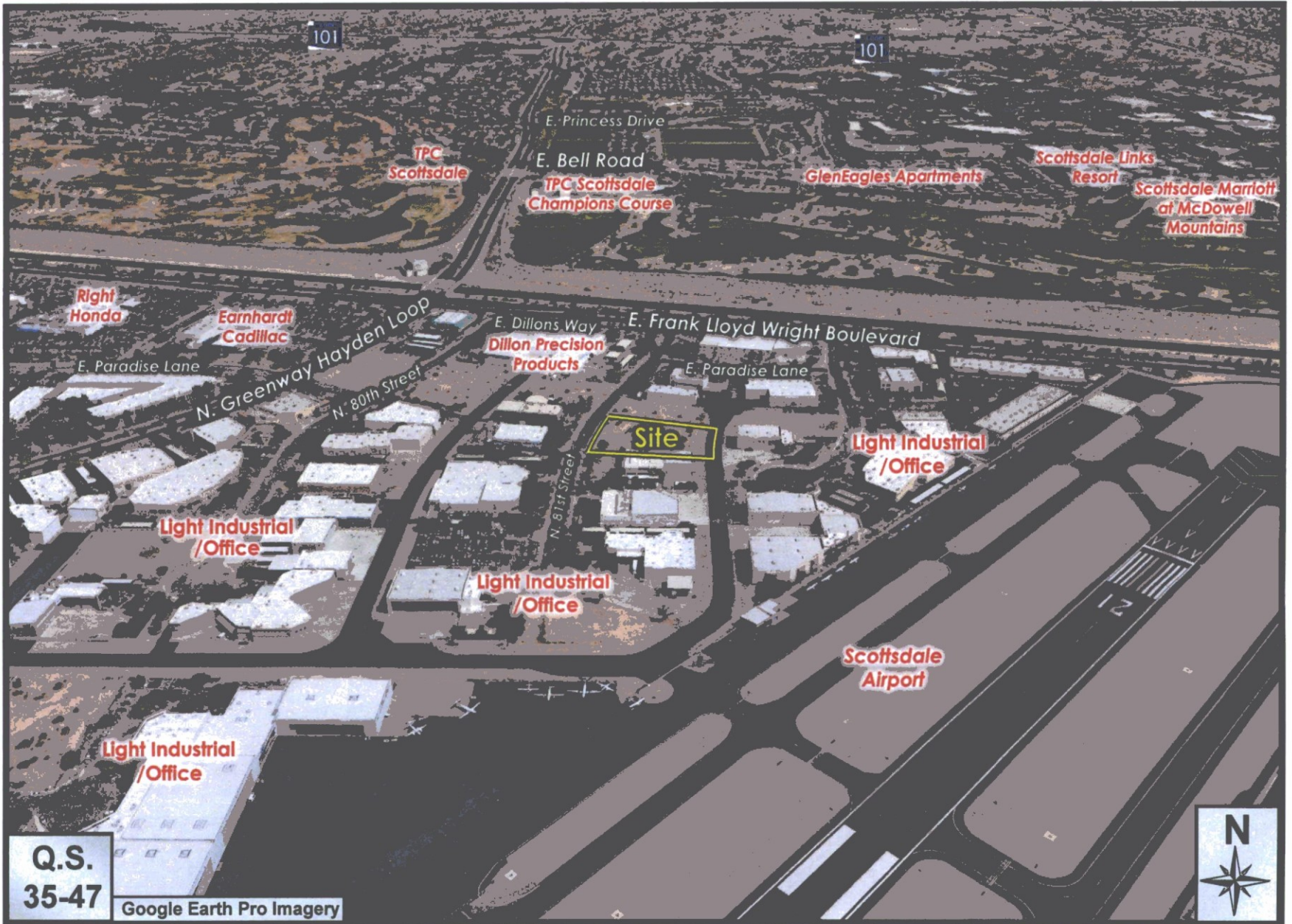
17. Prior to the issuance of a building permit for the development project, the owner shall dedicate the following easements to the City of Scottsdale on the final subdivision plat:
  - a. A sight distance easement where a sight distance triangle(s), in conformance with figures 5.3-26 and 5.3-27 of Section 5.3 of the DSPM, cross on to the property.
  - b. A continuous Public Non-Motorized Access Easement to the City of Scottsdale to contain the public sidewalk in locations where the sidewalk crosses on to the lot.
18. The proposed building location conflicts with the existing 10-foot-wide Public Utility Easement along the southern boundary of the property. A separate Release of Easement application shall be

submitted for this easement at the time of, or prior to, the submittal of final plans for permitting review.

ATTACHMENT A

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APPROVED 8/16/18 (SP)



Context Aerial

ATTACHMENT 1

49-DR-2017



Close-Up Aerial

ATTACHMENT 1A

49-DR-2017



Zoning

ATTACHMENT 2

49-DR-2017



Larson Associates Architects, Inc.  
3807 N 24<sup>th</sup> Street, Suite 100  
Phoenix, AZ 85016 602.955.9929

## **Stamper Hangar**

Ariztar, LLC  
16061 N. 81<sup>st</sup> Street  
Scottsdale, AZ 82560  
APN 215-48-054  
**626-PA-2017**

The Owner proposes to build a hangar of approximately 11,540 ft<sup>2</sup> to house several jets with primary charter assignments and similar uses. As can be seen in the colored perspectives, the Owner desires a corporate, upscale facility to represent his flight operations and service quality. The firm intends to provide office space for their operations adjacent to and attached to the hangar. As shown on the plan the office space reception, parts and catering spaces are equal to approximately 4,961 ft<sup>2</sup> including balcony area but not the roof mechanical area, an area which includes restrooms and storage space. The office element and the hangar element are each clearly defined in the accompanying drawings. Access to the site is provided from 81<sup>st</sup> street on the west boundary of the site. Parking is provided for the office and visitors with 18 spaces provided, not including any casual parking use of the hangar for client vehicles when the aircraft are deployed.

On-site private fuel is included as a part of the project scope. The ramp (staging) area is equal to the size of the hangar. All mechanical equipment is in a fully-screened enclosure on the second level of the office area in an outside, unroofed area to screen all of the equipment. Equipment planned at this time includes evaporative cooling for the hangar, high SEER rooftop mechanical units (RTU), a compressor and a possible backup generator. On the north elevation, the horizontal louvers that screen the equipment are shown on the left portion of that elevation.

Construction of the hangar is expected to be concrete tilt panels detailed to address the scale of the 38' walls and the 41' vertical elements and to carry the office scale through the building. The office block is lower and at an office building scale. The office building will likely be steel-framed with steel studs for exterior cavity walls and clad with Equitone (fiber cement) or similar cladding material. The hangar doors are bottom-support, in rails by Norco or International and will be insulated and are constructed of painted steel. Color and material selections are attached with the required color and material board in accordance with the DR submittal requirements.

Civil engineering, landscape architectural and presentation perspectives have been developed to the preliminary level for the DR review are included in this DR submittal. Particular attention has been paid to the west elevation to avoid presenting a large blank hangar wall as can be seen in the west elevation. Deep overhangs on the west portion of the office provide shade as well as an upper level patio possibility in this design. The site will require below grade retention and the possibility of a drywell or a scheme to meter to a regional drainage system as directed by the City. The ramp will be concrete, the parking lot asphaltic concrete and the drive approach from 81<sup>st</sup> will be concrete. Access to the ramp will be secured by a gate to maintain security for the project's airside as required by the Airport.



Larson Associates Architects, Inc.  
3807 N 24<sup>th</sup> Street, Suite 100  
Phoenix, AZ 85016 602.955.9929

A. Sec. 1.904. - Criteria. See the original narrative that is being made a part of this response and is attached to this document. The direct response to this request is in blue text

In accordance with the review comments to refer to the criteria in this section of the ordinance in considering any application for development, the Development Review Board shall be guided by the following criteria:

1. The Board shall examine the design and theme of the application for consistency with the design and character components of the applicable guidelines, development standards, Design Standards and Policies Manual, master plans, character plan and General Plan. In our reply to the request to provide a narrative in accordance with this section we have imported the section and have addressed the applicable criteria or have indicated that the portion of this general section do not apply to an aircraft hangar with an office subcomponent.

2. The architectural character, landscaping and site design of the proposed development shall:

a. Promote a desirable relationship of structures to one another, to open spaces and topography, both on the site and in the surrounding neighborhood;

The project, as an aircraft hangar, is scaled, sized and detailed in a manner that is above the design standards of the adjacent buildings with higher levels of detail and higher quality materials. The Airpark is effectively flat so topographic concerns have to do with proper site drainage rather than excessive cut and fill. Open space issues are determined by the zoning allowance for an intensive use of the site so that criteria is not addressed.

b. Avoid excessive variety and monotonous repetition;

It is a given that a hangar is a big box. Several vertical elements were included on the west and north sides of the project to relieve the planar quality of the box. With the Owner's request to include his corporate office in the overall project we were afforded the opportunity to provide an office-scaled portion on the north which we further detailed with an exterior balcony component. Other contributing elements include windows (both clear and spandrel) into the hangar. Horizontal striping in the exterior concrete tilt panels further adds interest and scale to the box. These elements are carried through the office building rain screen, a barrier comprised of Equitone fiber cement with more lightly scaled surfaces on the stair pier on the north side of the building. The mechanical well, at the second level to the left of the stair pier on the north elevation is screened with a partition comprised of a typical wall section with perf metal included for air circulation.

c. Recognize the unique climatic and other environmental factors of this region to respond to the Sonoran Desert environment, as specified in the Sensitive Design Principles;

The hangar is evaporatively cooled. The office portion has conventional mechanical systems. It is located on the shade side of the hangar orientation and thus benefits from that orientation.

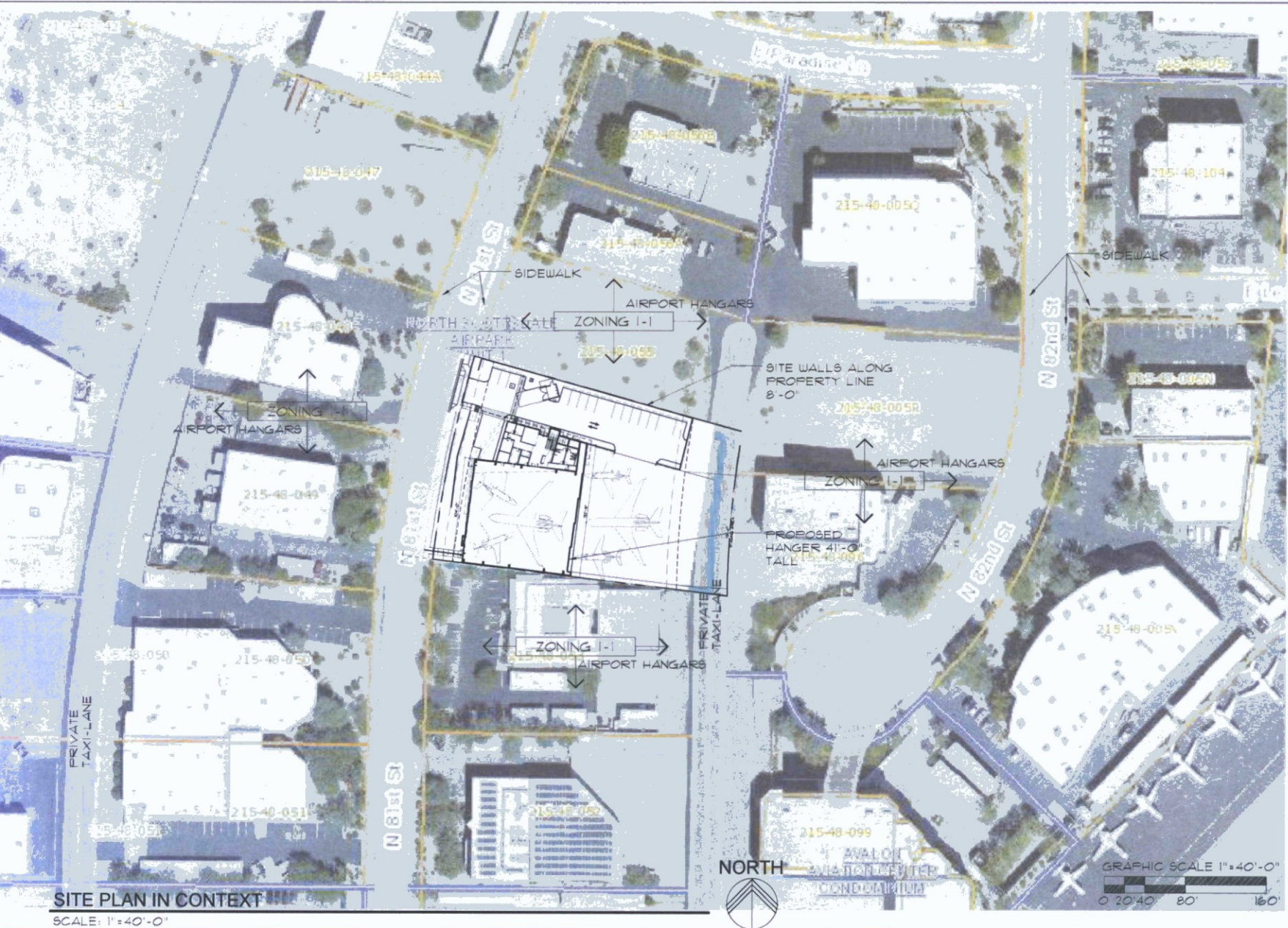
d. Conform to the recommendations and guidelines in the Environmentally Sensitive Lands (ESL) Ordinance, in the ESL Overlay District; and

This section does not apply to a hangar in the Airpark

d. Location in conformance with the Design Standards and Policies Manual for locations affecting existing utilities, public utility easements, and vehicular sight distance requirements; and

e. Location in conformance to standards for public safety.

B. The property owner has addressed all applicable criteria in this section in the above narrative. The criteria are addressed. This response is augmented by the following originally provided narrative included to continue the narrative and other project details.



ATTACHMENT 4

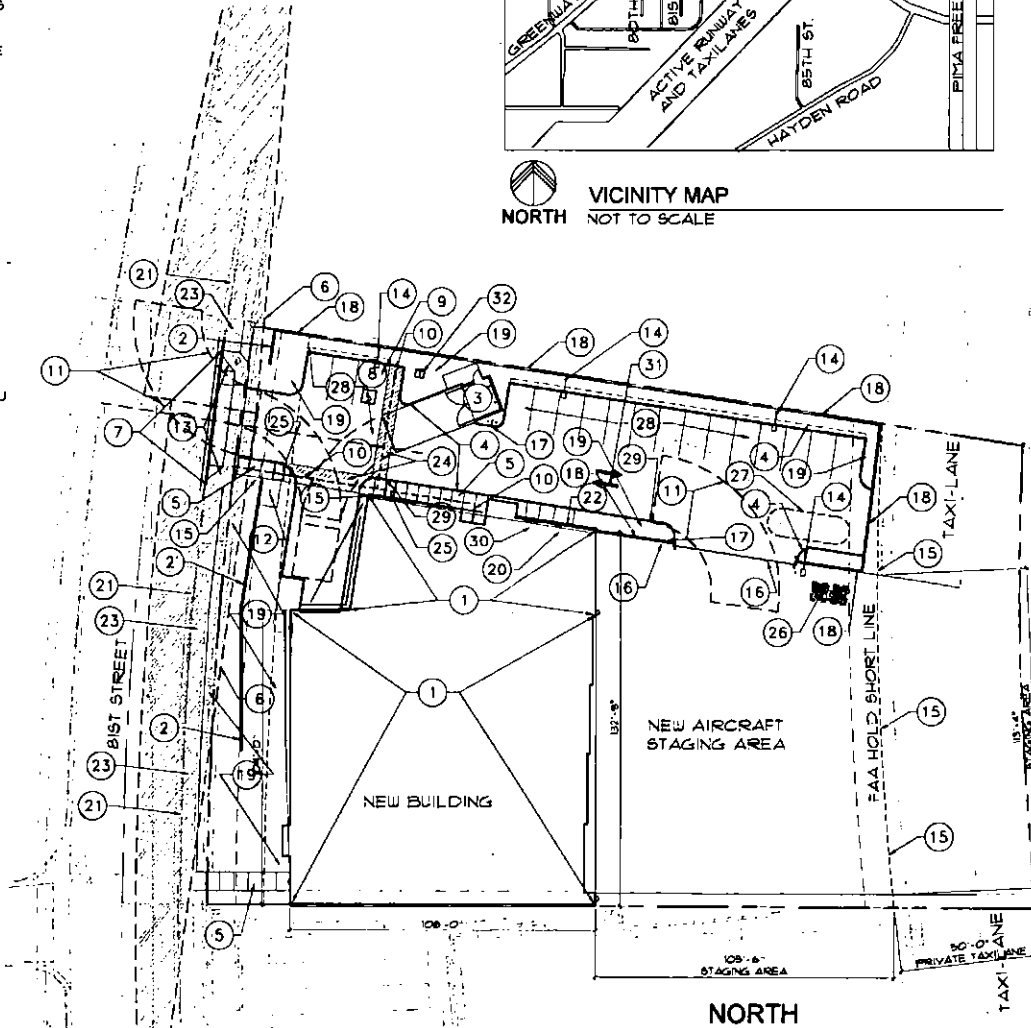
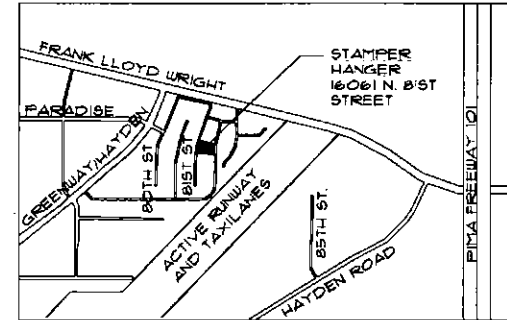
## SITE PLAN KEYNOTES

- ( ) NEW GROUND-UP BUILDING - SEE FLOOR PLAN.
- ( ) SITE SCREEN WALL "TYPE A" - SEE DETAIL IT 4 18 /SP2.1 (TOP OF WALL 3'-6" AFG.)
- ( ) DUMPFSTER ENCLOSURE AND CONCRETE PAD TO MATCH BUILDING WALLS - SEE DETAIL 13/SP2.1 (C.O.S. 2146-1)
- ( ) CONCRETE CURB PER CIVIL PLANS
- ( ) TYPICAL 5'-0" PEDESTRIAN CONCRETE SIDEWALK WITH LIGHT BROOM FINISH - SEE CIVIL PLANS AND DETAILS I, 6, 7 AND 8/SP2.0
- ( ) TRAFFIC VIABILITY TRIANGLE TO REMAIN CLEAR OF OBSTRUCTIONS FROM 2'-0" TO 1'-0" ABOVE GRADE - SEE LANDSCAPE AND CIVIL PLANS
- ( ) NEW DRIVEWAY CURB CUT PER CIVIL PLANS
- ( ) H.C. ACCESSIBLE PARKING SPACE PER ADA STANDARDS - SEE DETAIL 10/SP2.0
- ( ) H.C. ACCESSIBLE PARKING SPACE SIGN PER ADA STANDARDS - SEE DETAIL 25/SP2.3
- ( ) INDICATES ACCESSIBLE ROUTE OF TRAVEL
- ( ) FIRE TRUCK LANE AND TURNING RADII PER CITY OF SCOTTSDALE REQUIREMENTS (INSIDE RADIUS OF 25', OUTSIDE RADIUS OF 45', OVERHANG RADIUS OF 55')
- ( ) BIKE PARKING RACKS PER CITY OF SCOTTSDALE STANDARDS WITH 6'-6" x 9'-6" CLEAR AREA - SEE DETAILS 27/SP2.0 + 27/A2.3
- ( ) CORNER H.C. ACCESSIBLE RAMP MAX SLOPE 1:12 - SEE DETAIL 6/SP2.0 AND CIVIL PLANS
- ( ) SITE LIGHT - SEE DETAIL 26/SP2.3 STRUCTURAL AND ELECTRICAL DRAWINGS
- ( ) FAA READY LINE - COORDINATE SIZE, COLOR, ETC. WITH THE CITY OF SCOTTSDALE AIRPORT. PAINT LINE OUTSIDE THE TAXILANE SAFETY AREA (AREA EXTENDS 50'-0" FROM THE CENTERLINE OF THE TAXILANE). LINE SHALL BE PAINTED IN ACCORDANCE WITH FAA-AC 5340-J (AS CURRENTLY AMENDED)
- ( ) MOTORIZED TRAFFIC CONTROL GATE PER CITY OF SCOTTSDALE AIRPORT STANDARDS - SEE ELECTRICAL PLANS - WROUGHT IRON GATE TO COMPLETE SEPARATION OF AIRSIDE FROM LANDSIDE (SECURE AIRPORT) - SEE DETAIL 19/SP2.2 - GC. TO PROVIDE A KEY SWITCH / PRE-EMPTION SENSOR
- ( ) CONTROL PANEL FOR STAGING AREA MOTORIZED GATE PER SPECIFICATIONS AND CITY OF SCOTTSDALE AIRPORT AUTHORITY STANDARDS - SEE ELECTRICAL PLANS
- ( ) NEW 8'-0" AFG HIGH SITE WALL COORDINATE CONSTRUCTION WITH THE ADJACENT PROPERTY OWNER AS REQUIRED - SEE DETAIL 22/SP2.2
- ( ) LANDSCAPE AREA - SEE LANDSCAPE PLANS
- ( ) FIRE RISER ROOM - SEE FLOOR PLAN SHEET A1.0 AND DEFERRED FIRE PROTECTION PLAN SUBMITTAL
- ( ) EXISTING CURB TO REMAIN AT EXISTING ROADWAY
- ( ) FDC PER CITY OF SCOTTSDALE STANDARDS - SEE BUILDING PLANS AND FIRE PROTECTION DRAWINGS
- ( ) DEMOLISH EXISTING 5'-0" SIDEWALK AT RIGHT-OF-WAY AND PROVIDE A NEW 6'-0" SIDEWALK PER CITY OF SCOTTSDALE
- ( ) 4" PARKING LOT STRIPING
- ( ) TYPICAL H.C. ACCESSIBLE RAMP MAX SLOPE 1:12 - SEE DETAIL 9/SP2.0 AND CIVIL PLANS
- ( ) AIRCRAFT FUEL PUMP - TO BE PO-UP STYLE FULL UNDERGROUND ENCASEMENT - UNDER SEPARATE PERMIT
- ( ) AIRCRAFT FUEL TANK TO BE COMPLETELY UNDERGROUND - UNDER SEPARATE PERMIT
- ( ) ASPHALT PARKING LOT PER CIVIL DRAWINGS
- ( ) FIRE LANE MARKINGS AT CURB - CURB TO BE COLORED PER SCOTTSDALE STANDARDS AND SIGNS POSTED PER C.O.S. STANDARD DETAIL 2365 - SIGNS PER DETAIL 28/SP2.3
- ( ) SES LOCATED BEHIND EXTERIOR DOORS - SEE FIRST FLOOR PLANS
- ( ) DRIVEWAY TO BE 24'-0" WIDE TWO WAY - DIMENSION NOTED ON SP1.0
- ( ) PROPOSED GROUND MOUNTED TRANSFORMER LOCATION - SUBJECT TO POWER COMPANY APPROVAL - SCREENED BY PROPERTY SITE WALL

## LEGAL DESCRIPTION

LOT 34, OF NORTH SCOTTSDALE AIRPARK UNIT I, ACCORDING TO BOOK 321 OF MAPS, PAGE 12, AND CERTIFICATE OF CORRECTION RECORDED IN DOCUMENT NO. 94-268055, RECORDS OF MARICOPA COUNTY, ARIZONA.

APN: 215-48-054



## SITE PLAN WITH KEYNOTES

SCALE: 1"=20'-0"



GRAPHIC SCALE 1"=20'-0"  
0 10' 20' 40' 80'

# EQUIRED SITE PLAN NOTES

SIGHT DISTANCE TRIANGLES SHALL BE SHOWN ON FINAL PLANS FOR DRIVEWAYS FROM COMMERCIAL SITES AND ANY INTERSECTIONS. AREA WITHIN THE SAFETY TRIANGLE IS TO BE CLEAR OF LANDSCAPING, SIGNS, OR OTHER VISIBILITY OBSTRUCTIONS WITH A HEIGHT GREATER THAN 15 FEET. TREES WITHIN THE SAFETY TRIANGLE SHALL HAVE A CANOPY THAT BEGINS AT 8 FEET IN HEIGHT UPON INSTALLATION. ALL HEIGHTS ARE MEASURED FROM NEAREST STREET LINE ELEVATION.

ALL RIGHT-OF-WAY ADJACENT TO THIS PROPERTY SHALL BE LANDSCAPED AND MAINTAINED BY THE PROPERTY OWNER.

ALL SIGNS REQUIRE SEPARATE PERMITS AND APPROVALS.

NO EXTERIOR VENDING OR DISPLAY SHALL BE ALLOWED.

FLAG POLES, IF PROVIDED SHALL BE ONE PIECE CONICAL TAPERED.

NO EXTERIOR PUBLIC ADDRESS OR SPEAKER SYSTEM SHALL BE ALLOWED.

ALL EXTERIOR MECHANICAL, UTILITY, AND COMMUNICATION EQUIPMENT SHALL BE SCREENED TO A HEIGHT OF THE TALLEST UNIT BY PARAFET OR SCREEN WALL THAT MATCHES THE ARCHITECTURAL COLOR AND ARCHITECTURAL FINISH OF THE BUILDING.

GROUND MOUNTED MECHANICAL, UTILITY, AND COMMUNICATION EQUIPMENT SHALL BE SCREENED BY A SCREEN WALL THAT MATCHES THE ARCHITECTURAL COLOR AND ARCHITECTURAL FINISH OF THE BUILDING, WHICH IS A MINIMUM OF 1'-0" HIGHER THAN THE HIGHEST POINT OF TALLEST UNIT.

ALL EQUIPMENT, UTILITIES, OR OTHER APPURTEANCES ATTACHED TO THE BUILDING SHALL BE AN INTEGRAL PART OF THE BUILDING DESIGN IN TERMS OF FORM, COLOR AND TEXTURE.

NO EXTERIOR VISIBLE LADDERS SHALL BE ALLOWED.

ALL POLE MOUNTED LIGHTING SHALL BE A MAXIMUM OF 20 FEET IN HEIGHT.

NO CHAIN LINK OR DOOLEY WALL FENCING SHALL BE ALLOWED.

ALL EXTERIOR CONDUIT AND RACEWAYS SHALL BE PAINTED TO MATCH THE BUILDING.

UPON REMOVAL OF THE SALVAGEABLE NATIVE PLANTS THE SALVAGE CONTRACTOR SHALL COMPLETE NATIVE PLANT TRACKING FORM AS WELL AS A LIST IDENTIFYING THE TAG NUMBERS OF THE PLANTS SURVIVING SALVAGE OPERATIONS TO THE CITY'S INSPECTION SERVICES UNIT WITHIN 3 MONTHS FROM THE BEGINNING OF SALVAGE OPERATIONS AND/OR PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

ALL EXTERIOR LUMINARIES SHALL MEET ALL IESNA REQUIREMENTS FOR FULL CUTOFF, AND SHALL BE AIMED DOWNWARD AND AWAY FROM PROPERTY LINES EXCEPT SIGN, PARKING LOT CANOPY AND LANDSCAPE LIGHTING.

CITY STAFF MAY AT ANY TIME REQUEST THE DEVELOPER TO SUBMIT AS-BUILT PLANS TO THE INSPECTION SERVICES DIVISION. AS BUILT PLANS SHALL BE CERTIFIED IN WRITING BY A REGISTERED PROFESSIONAL ENGINEER, USING AS-BUILT DATA FROM A REGISTERED LAND SURVEYOR. AS-BUILT PLANS FOR DRAINAGE FACILITIES AND STRUCTURES SHALL INCLUDE, BUT ARE NOT LIMITED TO STREETS, LOT GRADING, 6" OR 8" DRAIN PIPE, VALLEY GUTTERS, CURBS AND GUTTER FLOOD WALLS, CULVERT'S, INLET AND OUTLET STRUCTURES, DAMS, BERMS, LINED AND UNLINED OPEN CHANNELS, STORM WATER STORAGE BASINS, UNDERGROUND STORM WATER STORAGE TANKS, AND BRIDGES AS DETERMINED BY CITY STAFF.

TEMPORARY/SECURITY FENCING THAT IS REQUIRED OR IS OPTIONAL PROVIDED SHALL BE IN ACCORDANCE WITH THE ZONING ORDINANCE AND THE DESIGN STANDARDS AND POLICES MANUAL.

THE TEMPORARY/SECURITY FENCE LOCATION SHALL NOT BE MODIFIED OR THE TEMPORARY/SECURITY FENCE SHALL NOT BE REMOVED WITHOUT THE APPROVAL OF THE PLANNING AND DEVELOPMENT SERVICES' INSPECTION SERVICES DIVISION.

NO TURF AREAS SHALL BE PROVIDED.

NO IRRIGATION SHALL BE PROVIDED TO UNDISTURBED NATURAL OPEN SPACE (NAOS) AREAS.

NO HELICOPTER ACCESS OF HELIPORT APPROVED UNDER THIS REVIEW.

COORDINATE ALL OFF-SITE TRAFFIC CONTROLS WITH THE CITY OF SCOTTSDALE TRAFFIC DEPARTMENT AND ADOT DURING THE CONSTRUCTION PROCESS.

THE FACE OF THE SERVICE ENTRY SECTION SHALL BE FLUSH WITH THE BUILDING FACADE AND PAINTED TO MATCH THE BUILDING.

ROOF DRAINAGE SYSTEMS SHALL BE INTERIOR.

NO EXTERIOR VENDING OR DISPLAY SHALL BE ALLOWED.

WALL ENCLOSURE FOR REUSE BINS AND TRASH COMPACTORS SHALL BE CONSTRUCTED OF MATERIALS, WITH COLORS AND TEXTURES WHICH ARE COMPATIBLE WITH THE BUILDING ON THE SITE.

ALL SITE WALLS SHALL MATCH THE ARCHITECTURAL COLOR, MATERIALS AND FINISH OF THE BUILDING.

THE MAXIMUM HEIGHT FROM FINISH GRADE TO THE BOTTOM OF ANY EXTERIOR LUMINARIES SHALL NOT EXCEED TWENTY (20) FEET.

ALL LUMINARIES SHALL BE RECESSED OR SHIELDED SO THE LIGHT SOURCE IS NOT DIRECTLY VISIBLE FROM THE PROPERTY LINE.

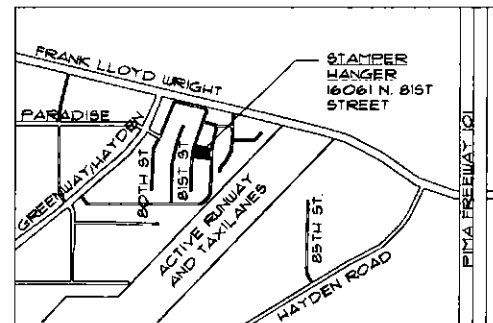
**AIRPORT STIPULATION:**  
 1. FUEL DISPENSING AND STORAGE BY SEPARATE SUBMITTAL AND PERMIT MUST HAVE SPECIFIC DOCUMENTED AIRPORT REVIEW AND APPROVAL TO CONFIRM COMPLIANCE WITH AIRPORT RULES AND REGULATIONS.

**NOTE:** G.C. TO ENSURE THAT ALL BUILDING SYSTEMS FROM ALL TRADES MUST BE CLEAN, NEAT, COORDINATED AND ORGANIZED IN A CRISP AND ORDERLY FASHION. ALL EXPOSED CONDUIT, PIPING, DUCTWORK, STRUCTURE LIGHTING, ETC. TO BE NEAT AND ORDERLY.

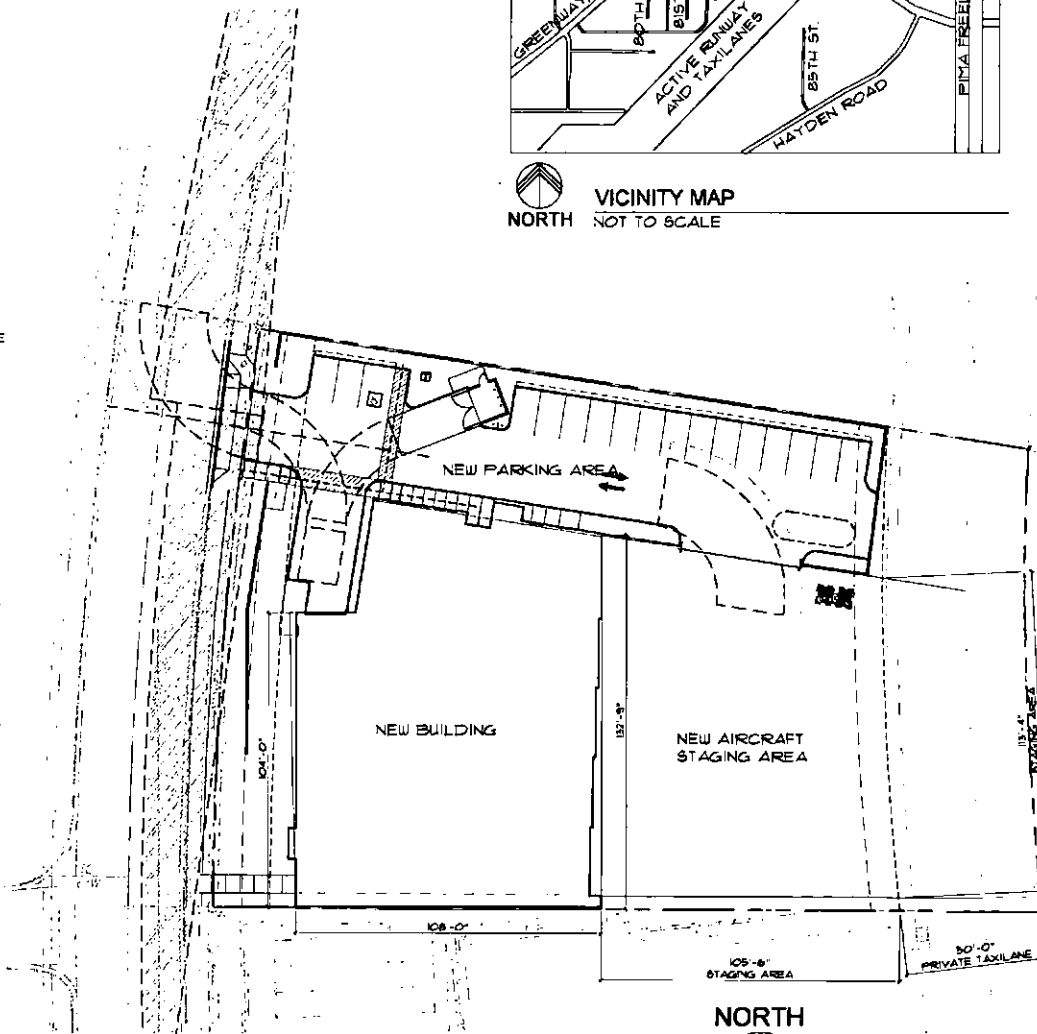
# LEGAL DESCRIPTION

LOT 34, OF NORTH SCOTTSDALE AIRPARK, UNIT 1, ACCORDING TO BOOK 327 OF MAPS, PAGE 12, AND CERTIFICATE OF CORRECTION RECORDED IN DOCUMENT NO. 94-268055, RECORDS OF MARICOPA COUNTY, ARIZONA.

APN: 215-48-054



**VICINITY MAP**  
 NORTH NOT TO SCALE



# SITE PLAN GENERAL NOTES

SCALE: 1"=20'-0"

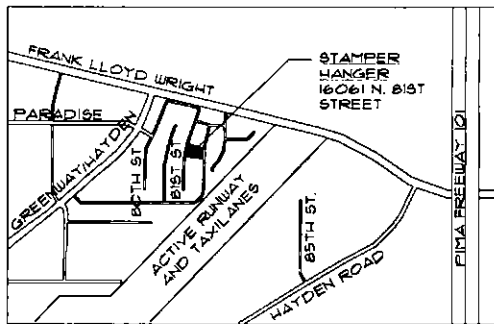


**GRAPHIC SCALE 1"=20'-0"**  
 0 10' 20' 40' 80'

LOISON Associates Architects, Inc.  
 3907 North 24th Street, Suite 100  
 Phoenix, AZ 85016

STAMPER HANGAR  
 16061 NORTH 81ST STREET  
 SCOTTSDALE, AZ

PROJECT NUMBER: 17-029  
 SHEET NUMBER: SP1  
 DATE: 06-01  
 EXPIRES: 6/30/20



**VICINITY MAP**  
NOT TO SCALE

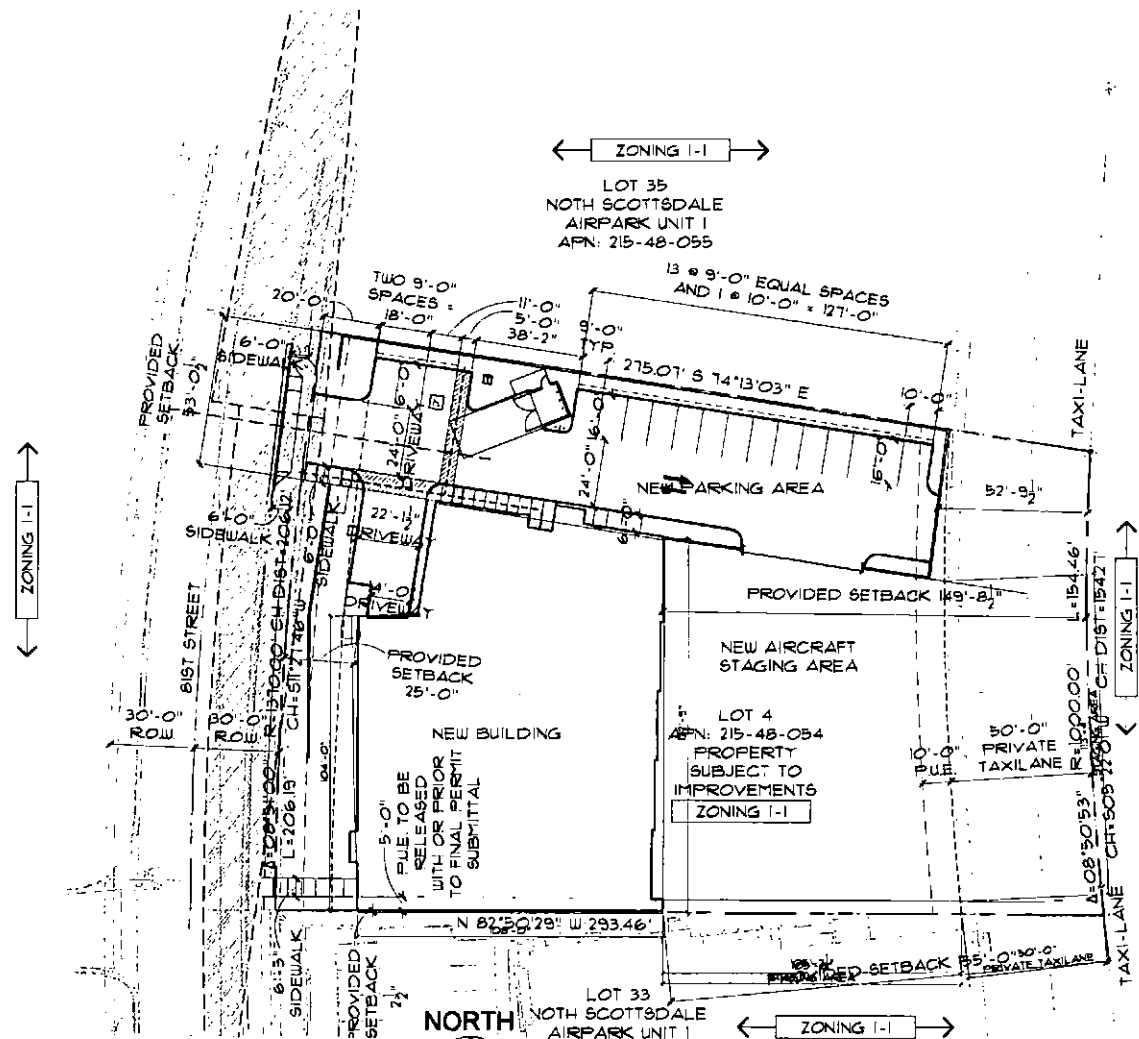
**SITE PLAN SHEET INDEX**

SP0.0	AERIAL OVERLAY
SP1.0	SITE PLAN WITH DIMENSIONS
SP1.0A	SITE PLAN WITH KEYNOTES
SP1.0B	SITE PLAN WITH GENERAL NOTES
SP1.1	PHOTOGRAPHS SITE PLAN KEY MAP
SP1.2	OPEN SPACE PLAN WORKSHEET
SP1.3	VEHICULAR AND PEDESTRIAN CIRCULATION ROUTES
SP1.4	HARDSCAPE PLAN
SP1.5	PHOTOMETRIC SITE PLAN
SP1.6	EXTERIOR LIGHTING PLAN
SP1.7	SIGHT VISIBILITY TRIANGLES
SP1.8	AIRPORT SITE PLAN
SP2.0-SP2.11	SITE DETAILS
SP3.0-SP3.14	EXTERIOR LIGHTING CUT SHEETS
AO1	ZONING CODE ANALYSIS
AO2	BUILDING CODE ANALYSIS
AO3	AIRPORT AUTHORITY DATA AND NOTES
AO4	GENERAL NOTES AND ENERGY ANALYSIS
AO5	NFPA AND FIRE DEPARTMENT NOTES
AO6	FIRE ORDINANCE REQUIREMENTS
A1.0	FIRST FLOOR PLAN
A1.1	SECOND FLOOR PLAN
A1.7	ROOF PLAN
A2.0-A2.10	EXTERIOR ELEVATIONS AND RENDERINGS
A3.0-A3.5	WALL SECTIONS

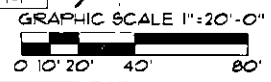
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LOT 34, OF NORTH SCOTTSDALE AIRPARK UNIT 1, ACCORDING TO BOOK 327 OF MAPS, PAGE 12, AND CERTIFICATE OF CORRECTION RECORDED IN DOCUMENT NO. 94-268055, RECORDS OF MARICOPA COUNTY, ARIZONA.

AFN: 215-48-054



**SITE PLAN WITH DIMENSIONS**  
SCALE: 1"=20'-0"



LOISON ASSOCIATES ARCHITECTS, INC.  
3807 North 24th Street, Suite 100  
Phoenix, AZ 85018



STAMPER HANGAR  
16061 NORTH 81ST STREET  
SCOTTSDALE, AZ

Jul 24  
EXPIRES  
6/30/20  
DATE:  
06-0

PROJ  
NUMBER  
17-029

SHEET  
NUMBER  
SP1








40.70

**OPEN SPACE DATA:**

PROJECT DATA ZONING:	I-1
NET LOT AREA:	49,155 SF.
BUILDING HEIGHT:	41'-0"
REQUIRED OPEN SPACE:	
MAXIMUM BUILDING HEIGHT PROVIDED:	52'-0" 41'-0"
FIRST 12'-0" OF HEIGHT:	• (10% X NET LOT AREA) • .10 X 49,155 SF. = 4,915.5 SF.
NEXT 29'-0" OF HEIGHT:	• 29' X .003 X 49,155 = 4,216 SF.
STAGING AREA REDUCTION: REDUCED OPEN SPACE REQUIRED:	• 4,216 X .50 = 2,108 SF.
TOTAL REQUIRED: (NOT INCLUDING PARKING LOT LANDSCAPING) :	4,915.5 + 2,138 = 7,054 SF.
OPEN SPACE PROVIDED:	4,505 + 2,566 = 7,071 SF. = OKAY

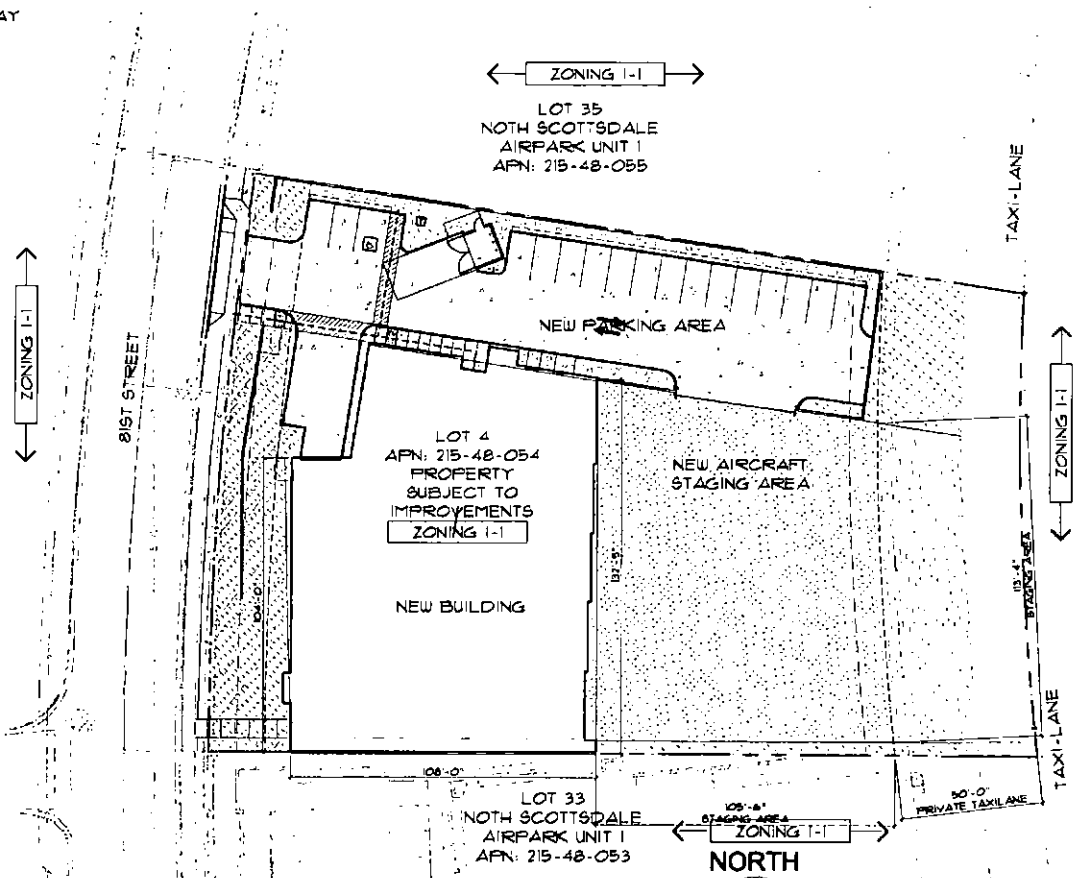
PARKING LOT LANDSCAPING REQUIRED:	9,954 X .15 = 1,493 SF.
PARKING LOT LANDSCAPING PROVIDED:	2,108 SF. = OKAY

**OPEN SPACE LEGEND**

-  PARKING LOT PAVED AREA: 9,954 SF.
-  OPEN FRONT SPACE REQUIRED: 20x206 = 4,120 SF.
-  OPEN FRONT SPACE PROVIDED: 4,505 SF. = OKAY
-  OPEN SPACE OTHER THAN FRONT OPEN SPACE = 2,566 SF.
-  ON-SITE AIRCRAFT STAGING AREA (HANGAR TO HOLD-SHORT LINE):  
REQUIRED = GREATER THAN THE INTERIOR AIRCRAFT STORAGE AREA:  
11,131 SF.  
PROVIDED:  
12,449 SF. = OKAY
-  SHARED PRIVATE TAXILANE PAVED AREA ON SITE: 3,955 SF.
-  PARKING AREA LANDSCAPE: 2,108 SF.

**LEGAL DESCRIPTION**

LOT 34, OF NORTH SCOTTSDALE AIRPARK UNIT 1, ACCORDING TO BOOK 321 OF MAPS, PAGE 12, AND CERTIFICATE OF CORRECTION RECORDED IN DOCUMENT NO. 94-268055, RECORDS OF MARICOPA COUNTY, ARIZONA  
APN: 215-48-054



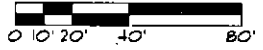
**OPEN SPACE WORKSHEET**

SCALE: 1"=20'-0"

NORTH



GRAPHIC SCALE 1"=20'-0"



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STAMPER HANGAR  
16-061 NORTH 81ST STREET  
SCOTTSDALE, AZ

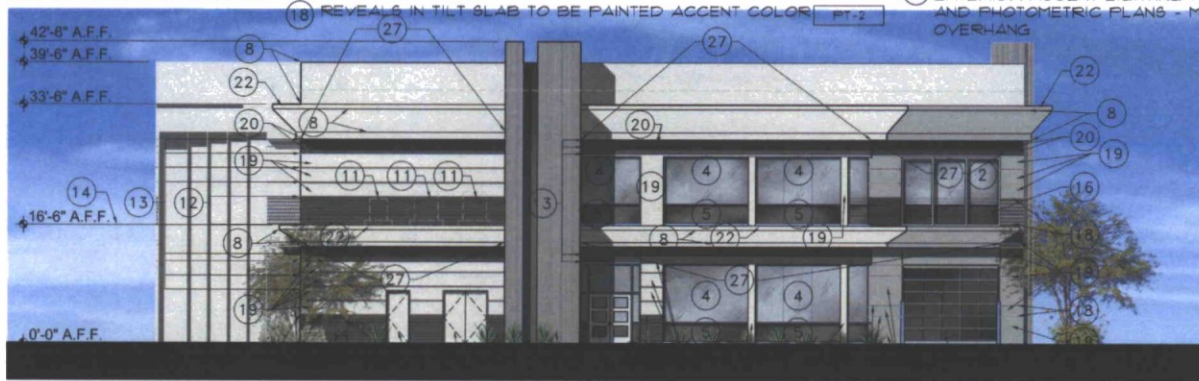
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SP1  
49-DR

# FINISH LEGEND

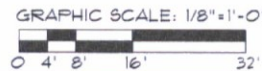
MATERIALS	MANUF.	MODEL	COLOR	NOTES
PT-1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT; LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
PT-2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT; LRV = 71; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW "E"	GRAY	1" INSULATED STANDARD (TWO 1/4" PANEES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW "E"	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANEES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
FP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NOT3	OFFICE BUILDING ONLY
DECK	-	-	-	-

## ELEVATION KEYNOTES NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- 10 CLEAR ANODIZED ALUM WINDOW & DOOR FRAMES
- 11 CLEAR ANODIZED ALUM NANA WALL OR EQUAL - FIRE SHUTTER TO BE INSTALLED IN CEILING ABOVE DOOR
- 12 HOLLOW METAL DOOR & DOOR FRAME TO BE PAINTED FIELD COLOR - CLEAR ANODIZED ALUM WINDOW
- 13 UPPER PANE OF GLASS TO BE GUARDIAN GLASS - DUAL PANE LOW E GRAY GLASS - CLEAR ANODIZED ALUM WINDOW
- 14 DUAL PANE LOW E MIDNIGHT GLASS - GUARDIAN GLASS - LOWER PANE OF GLASS AT OFFICE WINDOWS
- 15 CLEAR ANODIZED ALUM GARAGE DOOR WITH GLAZING - LOW E MIDNIGHT GLASS - GUARDIAN GLASS
- 16 HANGAR DOOR PAINT TO BE PAINTED FIELD COLOR [PT-1]
- 17 STUCCO SYSTEM - PAINTED [PT-1]
- 18 EXTERIOR LIGHTING-FIXTURE SW - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- 19 CLEAR ANODIZED ALUM WINDOW & DOOR FRAMES
- 20 EXTERIOR LIGHTING-FIXTURE EM - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- 21 MECHANICAL UNITS BEHIND EXTERIOR WALL
- 22 PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
- 23 EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
- 24 LINE INDICATING INTERIOR FINISH FLOOR
- 25 FINISHED GRADE
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- 30 OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NOT3 OR EQUAL [FCP-3]
- 31 STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- 32 BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- 33 ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- 34 OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- 35 OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
- 36 INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
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1 NORTH ELEVATION  
SCALE: 1/8"=1'-0"



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LOISON

STAMPER HANGAR  
 16061 NORTH 81ST STREET  
 SCOTTSDALE, AZ



Mar 15  
 EXPIRES  
 6/30/22  
 DATE  
 02-15-22  
 PROJ.  
 NUMB  
 17-02

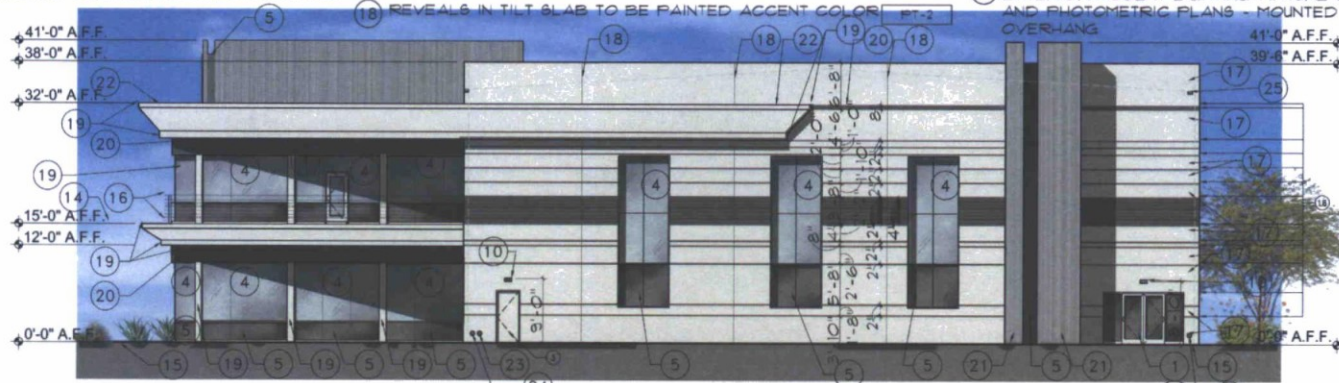
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# FINISH LEGEND

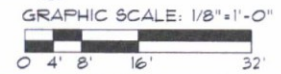
MATERIALS	MANUF.	MODEL	COLOR	NOTES
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UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW "E"	GRAY	1" INSULATED STANDARD (TWO 1/4" PANEES WITH 1/2" INSULATION GAP)
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CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
FCP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FCP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NO13	OFFICE BUILDING ONLY
B-DECK	-	-	-	-

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- 21 PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
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- 20 OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NO13 OR EQUAL [FCP-3]
- 21 STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
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2 WEST ELEVATION  
SCALE: 1/8"=1'-0"



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LAISSON

STAMPER HANGAR  
16061 NORTH 21ST STREET  
SCOTTSDALE, AZ



Mar 18  
EXPIRES  
6/30/2  
DATE  
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NUMB  
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SHEET  
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A2

49-DR

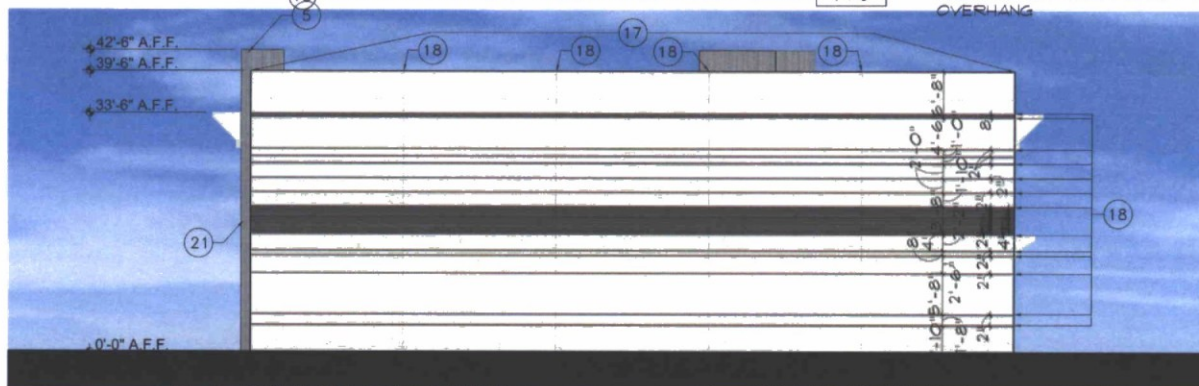
# FINISH LEGEND

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LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW "E"	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANE WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
FCP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FCP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NO73	OFFICE BUILDING ONLY
DECK	-	-	-	-

## ELEVATION KEYNOTES

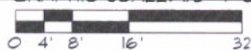
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- 20 OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NO73 OR EQUAL [FCP-3]
- 21 STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- 22 BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
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3 SOUTH ELEVATION

SCALE: 1/8"=1'-0"

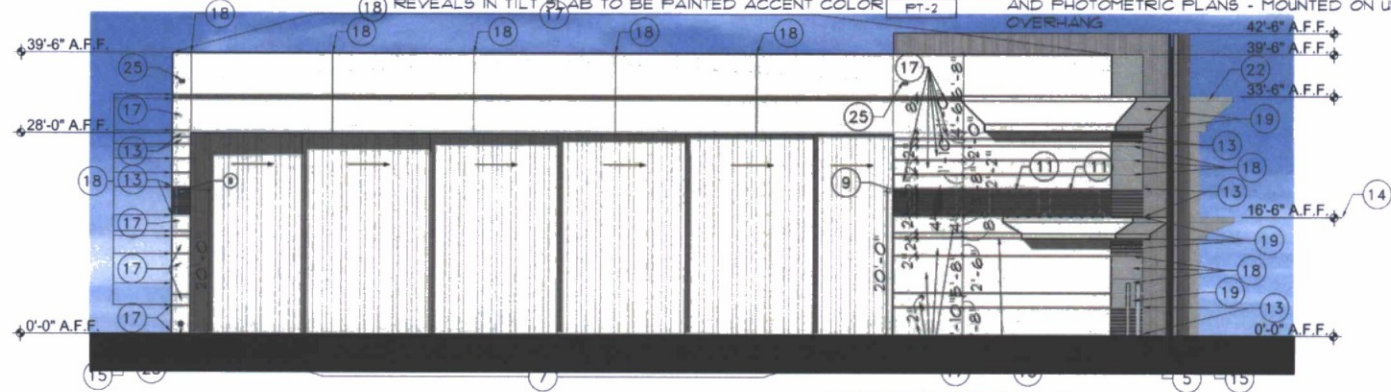


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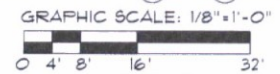
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LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW "E"	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
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- (14) LINE INDICATING INTERIOR FINISH FLOOR
- (15) FINISHED GRADE
- (16) STAINLESS STEEL RAILING SYSTEM - G.C. TO INSTALLED RAILING SYSTEM MEETS ALL IBC AND ADA CODES
- (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
- (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
- (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE90 OR EQUAL [FCP-2]
- (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NOT3 OR EQUAL [FCP-3]
- (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (24) OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
- (26) INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
- (27) EXTERIOR ACCENT LIGHTING-FIXTURE 6C -SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS - MOUNTED ON UNDERSIDE OF SOFFIT OVERHANG



4 EAST ELEVATION  
SCALE: 1/8"=1'-0"



Larson Associates Architects, Inc.  
3807 North 24th Street Suite 100

Larson

STAMPER HANGAR  
16061 NORTH 21ST STREET  
SCOTTSDALE, AZ

EXPIRE  
6/30/2  
DATE  
02-15

PROJ  
NUMB  
17-02

SHEET  
NUMB  
A2

49-DR

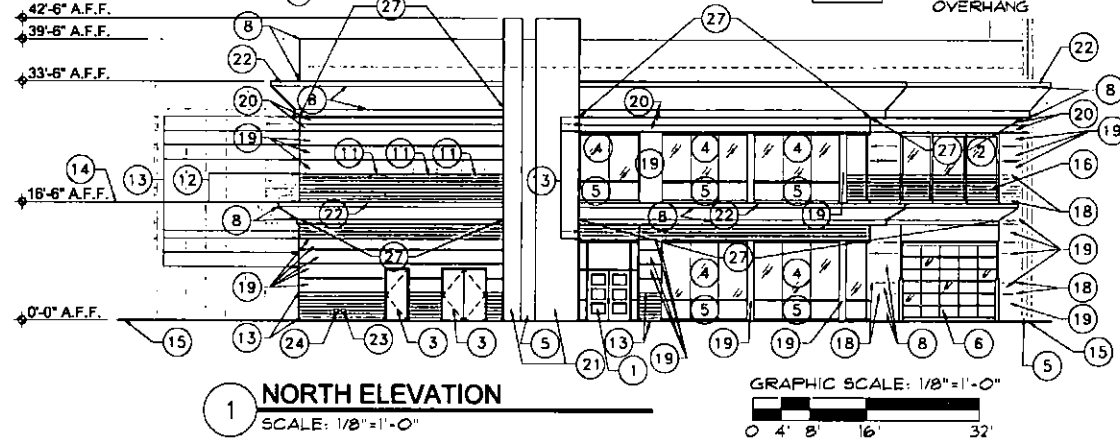
**FINISH LEGEND**

MATERIALS	MANUF.	MODEL	COLOR	NOTES
PT-1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT: LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
PT-2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT: LRV = 7; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW 'E'	GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW 'E'	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
PT-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
PT-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
PT-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NOT3	OFFICE BUILDING ONLY
DECK	-	-	-	-

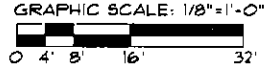
**ELEVATION KEYNOTES**

NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- (1) CLEAR ANODIZED ALUM WINDOW & DOOR FRAMES
- (2) CLEAR ANODIZED ALUM NANA WALL OR EQUAL - FIRE SHUTTER TO BE INSTALLED IN CEILING ABOVE DOOR
- (3) HOLLOW METAL DOOR & DOOR FRAME TO BE PAINTED FIELD COLOR - CLEAR ANODIZED ALUM WINDOW
- (4) UPPER PANE OF GLASS TO BE GUARDIAN GLASS - DUAL PANE LOW E GRAY GLASS - CLEAR ANODIZED ALUM WINDOW
- (5) DUAL PANE LOW E MIDNIGHT GLASS - GUARDIAN GLASS - LOWER PANE OF GLASS AT OFFICE WINDOWS
- (6) CLEAR ANODIZED ALUM GARAGE DOOR WITH GLAZING - LOW E MIDNIGHT GLASS - GUARDIAN GLASS
- (7) HANGAR DOOR PAINT TO BE PAINTED FIELD COLOR [PT-1]
- (8) STUCCO SYSTEM - PAINTED [PT-1]
- (9) EXTERIOR LIGHTING-FIXTURE SW - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- (10) EXTERIOR LIGHTING-FIXTURE EM - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- (11) MECHANICAL UNITS BEHIND EXTERIOR WALL
- (12) PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
- (13) EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
- (14) LINE INDICATING INTERIOR FINISH FLOOR
- (15) FINISHED GRADE
- (16) STAINLESS STEEL RAILING SYSTEM - G.C. TO INSTALLED RAILING SYSTEM MEETS ALL IBC AND ADA CODES
- (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
- (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
- (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE10 OR EQUAL [FCP-2]
- (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NOT3 OR EQUAL [FCP-3]
- (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (24) OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
- (26) INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
- (27) EXTERIOR ACCENT LIGHTING-FIXTURE SC - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS - MOUNTED ON UNDERSIDE OF SOFFIT OVERHANG



**1 NORTH ELEVATION**  
SCALE: 1/8"=1'-0"



LOISON Associates Architects, Inc.  
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STAMPER HANGAR  
16061 NORTH 81ST STREET  
SCOTTSDALE, AZ

EXPIRE  
6/30/2025  
DATE  
06-01-2025

PROJ.  
NUMB  
11-027

SHEET  
NUMB  
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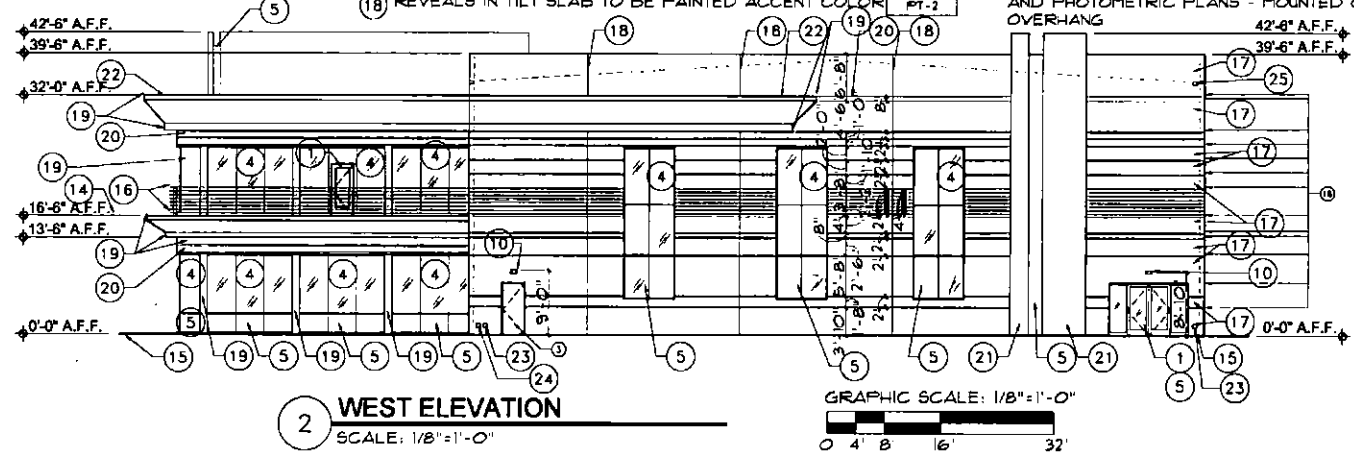
49-DR

# FINISH LEGEND

MATERIALS	MANUF.	MODEL	COLOR	NOTES
PT-1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT; LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
PT-2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT; LRV = 7; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW 'E'	GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW 'E'	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
FCP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FCP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NO13	OFFICE BUILDING ONLY
DECK	-	-	-	-

## ELEVATION KEYNOTES

- NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET
- (10) EXTERIOR LIGHTING-FIXTURE EM - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
  - (11) MECHANICAL UNITS BEHIND EXTERIOR WALL
  - (12) PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
  - (13) EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
  - (14) LINE INDICATING INTERIOR FINISH FLOOR
  - (15) FINISHED GRADE
  - (16) STAINLESS STEEL RAILING SYSTEM - G.C. TO INSTALLED RAILING SYSTEM MEETS ALL IBC AND ADA CODES
  - (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
  - (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
  - (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE90 OR EQUAL [FCP-2]
  - (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NO13 OR EQUAL [FCP-3]
  - (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
  - (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
  - (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
  - (24) OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
  - (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
  - (26) INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
  - (27) EXTERIOR ACCENT LIGHTING-FIXTURE SC - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS - MOUNTED ON UNDERSIDE OF SOFFIT OVERHANG



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LAISON

STAMPER HANGAR  
 16061 NORTH 81ST STREET  
 SCOTTSDALE, AZ

EXPIRE  
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 06-0  
 PROJ.  
 NUMB  
 17-02

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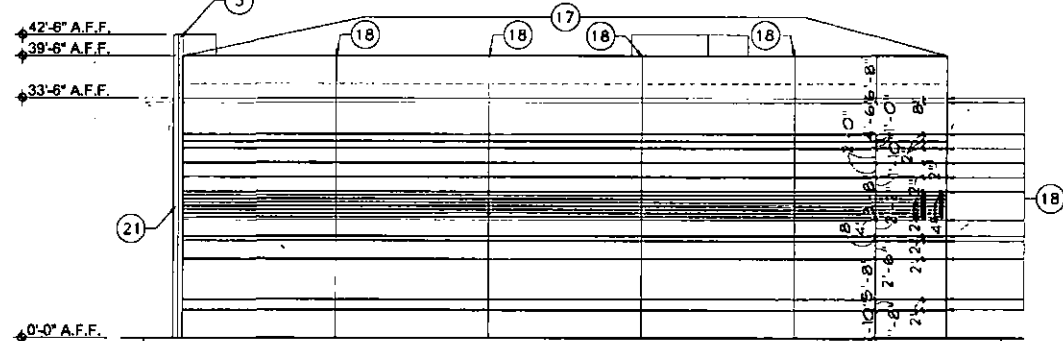
49-DR

# FINISH LEGEND

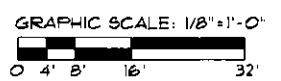
MATERIALS	MANUF.	MODEL	COLOR	NOTES
PT-1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT: LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
PT-2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT: LRV = 7; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW "E"	GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW "E"	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
FCP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FCP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NT13	OFFICE BUILDING ONLY
DECK	-	-	-	-

## ELEVATION KEYNOTES NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- (10) EXTERIOR LIGHTING-FIXTURE EM -SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- (11) MECHANICAL UNITS BEHIND EXTERIOR WALL
- (12) PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
- (13) EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
- (14) LINE INDICATING INTERIOR FINISH FLOOR
- (15) FINISHED GRADE
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- (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
- (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
- (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE20 OR EQUAL [FCP-2]
- (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NT13 OR EQUAL [FCP-3]
- (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
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- (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
- (26) INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
- (27) EXTERIOR ACCENT LIGHTING-FIXTURE SC -SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS - MOUNTED ON UNDERSIDE OF SOFFIT OVERHANG



**3 SOUTH ELEVATION**  
SCALE: 1/8" = 1'-0"



LOISON Associates Architects, Inc.  
 3807 North 24th Street, Suite 100

STAMPER HANGAR  
 1606 NORTH EAST STREET  
 SEATTLE, WA 98101

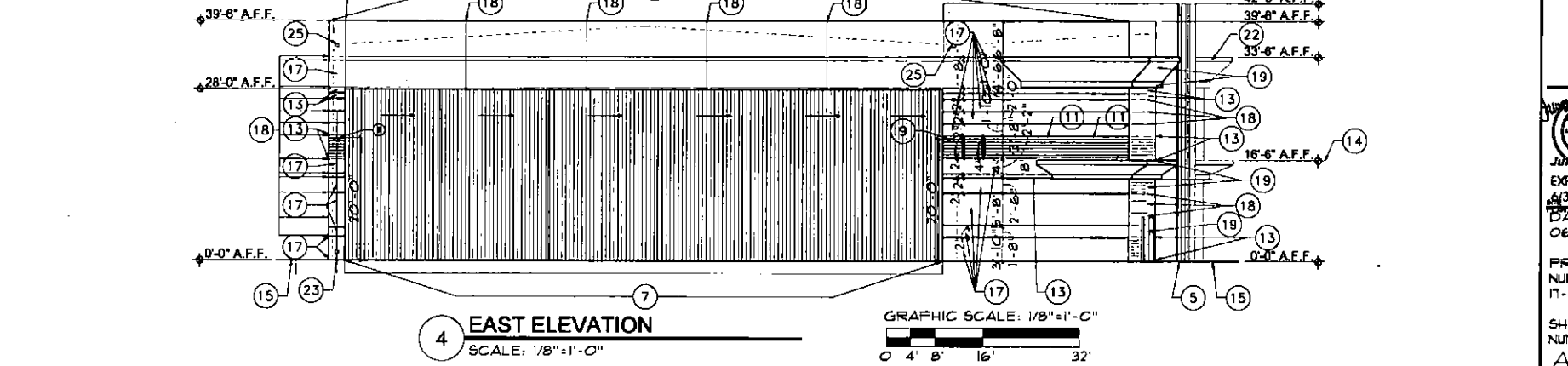
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# FINISH LEGEND

MATERIALS	MANUF.	MODEL	COLOR	NOTES
PT-1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT: LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
PT-2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT: LRV = 7; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW 'E'	GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW 'E'	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
FCP-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT70	OFFICE BUILDING ONLY
FCP-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
FCP-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NO13	OFFICE BUILDING ONLY
B-DECK	-	-	-	-

## ELEVATION KEYNOTES NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- (10) EXTERIOR LIGHTING-FIXTURE EM - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS
- (11) MECHANICAL UNITS BEHIND EXTERIOR WALL
- (12) PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
- (13) EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
- (14) LINE INDICATING INTERIOR FINISH FLOOR
- (15) FINISHED GRADE
- (16) STAINLESS STEEL RAILING SYSTEM - G.C. TO INSTALLED RAILING SYSTEM MEETS ALL IBC AND ADA CODES
- (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
- (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
- (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE30 OR EQUAL [FCP-2]
- (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NO13 OR EQUAL [FCP-3]
- (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT70 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (24) OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS
- (26) INTERIOR SES - LOCATED BEHIND EXTERIOR DOORS FOR DIRECT ACCESS
- (27) EXTERIOR ACCENT LIGHTING-FIXTURE SC - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS - MOUNTED ON UNDERSIDE OF SOFFIT OVERHANG



LAISON Associates Architects, Inc.  
 3807 North 24th Street, Suite 100

STAMPER HANGAR  
 1606 NORTH 81ST STREET  
 SCOTTSDALE, AZ

JUN 2006  
 EXPIRE 6/30/2006  
 DATE 06-01-06  
 PROJ. NUMB 17-02  
 SHEET NUMB A2  
 49-DR



**EXTERIOR RENDERING**

SCALE: 1/8" = 1'-0"

LaiSON Associates Architects, Inc.  
3807 North 24th Street, Suite 100  
Scottsdale, AZ 85251



STAMPER HANGAR  
16061 NORTH 81ST STREET  
SCOTTSDALE, AZ



EXPIRES  
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DATE  
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NUMB  
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49-DR



**EXTERIOR RENDERING**

SCALE: 1/8"=1'-0"

Larison Associates Architects, Inc.  
3807 North 24th Street, Suite 100



STAMPER HANGAR  
16061 NORTH 81ST STREET  
SCOTTSDALE, AZ



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## Stamper Hanger

### Exterior Finish Color Board

16061 NORTH 81ST STREET  
SCOTTSDALE, ARIZONA 85260

### Color Board Legend:

Exterior Material Finishes

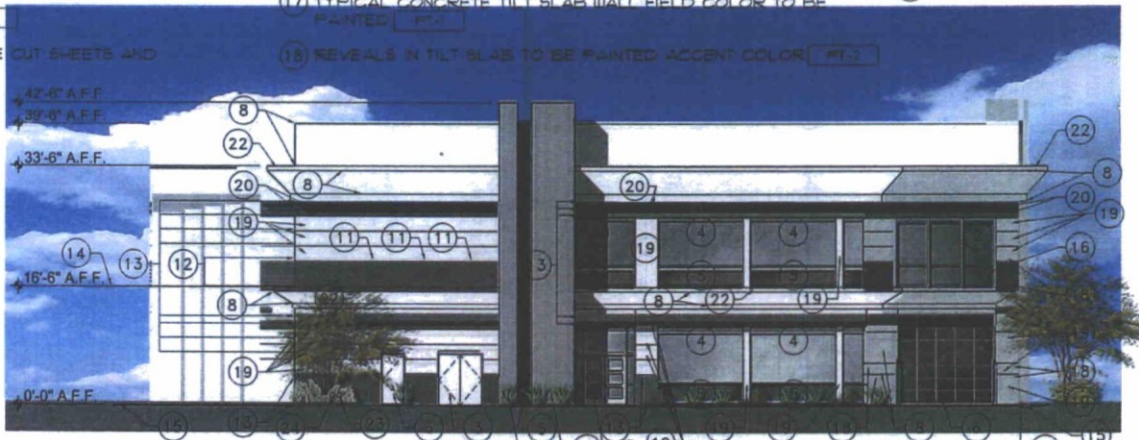
- A. PT-1** Building Field Color  
a. Manufacturer: **Dunn Edwards**  
b. Color: Mountain Air –DE6393  
Exterior Flat
- B. PT-2** Building Accent Color  
a. Manufacturer: **Dunn Edwards**  
b. Color: Black Bean – DE6385  
Exterior Flat
- C. GS-1** Window Glass  
a. Manufacturer: **Guardian Glass**  
b. Color: Gray Low-E Clear  
Upper pane
- D. GS-2** Window Glass  
a. Manufacturer: **Guardian Glass**  
b. Color: midnight gray Low-E Clear  
Lower pane
- E. Frame** Window frame  
a. Material: **Alum.**  
b. Color: Clear Anodized
- F. FCP-1** Fiber Cement  
a. Manufacturer: **Equitone**  
b. Color: LT20  
c. Pattern: Linea
- G. FCP-2** Fiber Cement  
a. Manufacturer: **Equitone**  
b. Color: TE10  
c. Pattern: Tectiva
- H. FCP-3** Fiber Cement  
a. Manufacturer: **Equitone**  
b. Color: NO73  
c. Pattern: natura

# NISH LEGEND

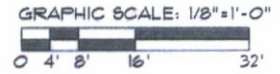
MATERIALS	MANUF.	MODEL	COLOR	NOTES
1	DUNN EDWARDS	DE 6393 - FLAT	MOUNTAIN AIR	EXTERIOR PAINT; LRV = 70; FIELD COLOR INTERIOR = FLAT FINISH
2	DUNN EDWARDS	DE 6385 - FLAT	BLACK BEAN	EXTERIOR PAINT; LRV = 7; FIELD COLOR INTERIOR = FLAT FINISH
WINDOW FRAMES	OLD CASTLE	-	CLEAR ANODIZED	OFFSET 2x6 FRAMES UNLESS NOTED OTHERWISE
UPPER EXTERIOR GLASS	GUARDIAN GLASS	GRAY 1" LOW "E"	GRAY	1" INSULATED STANDARD (TWO 1/4" PANEES WITH 1/2" INSULATION GAP)
LOWER EXTERIOR GLASS	GUARDIAN GLASS	MIDNIGHT 1" LOW "E"	DARK GRAY	1" INSULATED STANDARD (TWO 1/4" PANEES WITH 1/2" INSULATION GAP)
CONCRETE TILT SLAB	-	-	-	-
P-1 FIBER CONCRETE PANEL	EQUITONE	LINEA	LT20	OFFICE BUILDING ONLY
P-2 FIBER CONCRETE PANEL	EQUITONE	TECTIVA	TE10	OFFICE BUILDING ONLY
P-3 FIBER CONCRETE PANEL	EQUITONE	NATURA	NOT3	OFFICE BUILDING ONLY
DECK	-	-	-	-

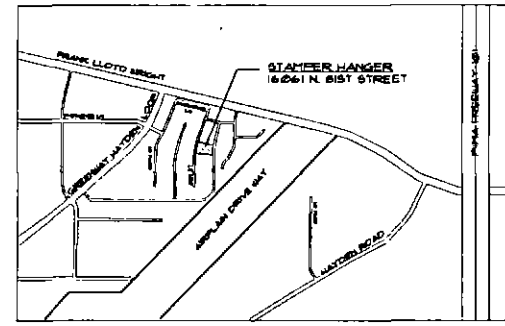
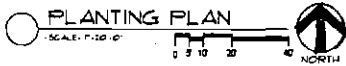
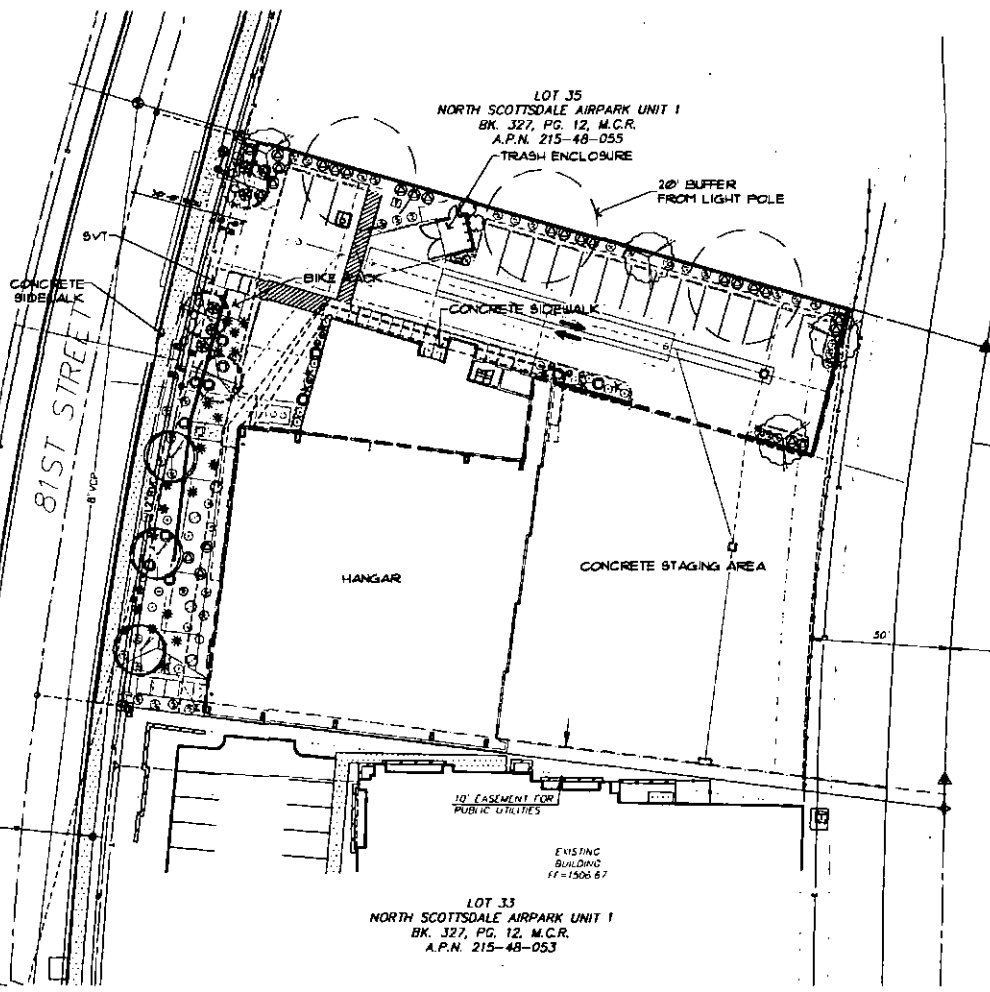
## ELEVATION KEYNOTES NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET

- CLEAR ANODIZED ALUM WINDOW & DOOR FRAMES (10) NOT USED
- CLEAR ANODIZED ALUM NANA WALL OR EQUAL - FIRE SHUTTER TO BE INSTALLED IN CEILING ABOVE DOOR (11) MECHANICAL UNITS BEHIND ENCLOSURE WALL
- HOLLOW METAL DOOR & DOOR FRAME TO BE PAINTED FIELD COLOR - CLEAR ANODIZED ALUM WINDOW (12) PERFORATED - TO VENT MECHANICAL SYSTEM BEYOND PAINTED B-DECK PAINTED ACCENT COLOR [PT-2]
- UPPER PANE OF GLASS TO BE GUARDIAN GLASS - DUAL PANE LOW E GRAY GLASS - CLEAR ANODIZED ALUM WINDOW (13) EXPOSED B-DECK LAYER BELOW FIBER CEMENT TO BE PAINTED ACCENT COLOR USED SIMILAR TO REVEALS IN TILT SLAB [PT-2]
- DUAL PANE LOW E MIDNIGHT GLASS - GUARDIAN GLASS - LOWER PANE OF GLASS AT OFFICE WINDOWS (14) LINE INDICATING INTERIOR FINISH FLOOR
- CLEAR ANODIZED ALUM GARAGE DOOR WITH GLAZING - LOW E MIDNIGHT GLASS - GUARDIAN GLASS (15) FINISHED GRADE
- HANGAR DOOR PAINT TO BE PAINTED FIELD COLOR [PT-1] (16) STAINLESS STEEL RAILING SYSTEM - SEE DETAIL -/- - G.C. TO INSTALLED RAILING SYSTEM MEETS ALL IBC AND ADA CODES
- STUCCO SYSTEM - PAINTED [PT-1] (17) TYPICAL CONCRETE TILT SLAB WALL FIELD COLOR TO BE PAINTED [PT-1]
- EXTERIOR LIGHTING - SEE FIXTURE CUT SHEETS AND PHOTOMETRIC PLANS (18) REVEALS IN TILT SLAB TO BE PAINTED ACCENT COLOR [PT-2]
- (19) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE TECTIVA TE90 OR EQUAL [FCP-2]
- (20) OFFICE BUILDING TO BE CLAD IN FIBER CEMENT - EQUITONE NATURA NOT3 OR EQUAL [FCP-3]
- (21) STAIR TOWER & VERTICAL ELEMENT TO BE FIBER CEMENT - EQUITONE LINEA LT20 - INSTALLED WITH VERTICAL PATTERN OR EQUAL [FCP-1]
- (22) BREAK METAL CAP PARAPET CAP TO BE PAINTED BUILDING FIELD COLOR [PT-1]
- (23) ROOF DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (24) OVER FLOW DRAIN - SEE ROOF PLAN & PLUMBING PLANS
- (25) OVER FLOW SCUPPER - SEE ROOF PLAN & PLUMBING PLANS



1 NORTH ELEVATION  
SCALE: 1/8"=1'-0"





**VICINITY MAP**  
 NOT TO SCALE  
 NORTH

### PLANT SCHEDULE

SYMBOL	BOTANICAL NAME	COMMON NAME			
<b>TREES</b>					
	<i>Casahuate mexicana</i>	Mexican Bird of Paradise	24" Box	4	Multi-Trunk Dense Canopy
	Prosopis Hybrid 'Rio Salado'	'Rio Salado' Mesquite	36" Box	3	Multi-Trunk Dense Canopy
	<i>Olneya tesota</i>	Ironwood	36" Box	3	Multi-Trunk Dense Canopy
<b>ACCENTS</b>					
	<i>Agave americana</i>	Agave	5-Gal	5	As Per Plan
	<i>Aloe Barbadosensis</i>	Aloe (Yellow Flower)	5-Gal	6	As Per Plan
	<i>Dasylirion longistylus</i>	Toothless Spoon	5-Gal	6	As Per Plan
	<i>Echinocactus grusonii</i>	Golden Berral	5-Gal	5	As Per Plan
	<i>Muhlenbergia Nashville</i>	'Nashville' Grass	5-Gal	14	As Per Plan
<b>SHRUBS</b>					
	<i>Calliandra Californica</i>	Baja Fairy Duster	5-Gal	4	As Per Plan
	<i>Justicia Californica</i>	Chuparrosa	5-Gal	12	As Per Plan
	<i>Leucophyllum 'Rio Bravo'</i>	'Rio Bravo' Sage	5-Gal	27	As Per Plan
	<i>Tecoma hybrid 'Orange Jubilee'</i>	Orange Jubilee	5-Gal	7	As Per Plan
<b>GROUND COVERS</b>					
	<i>Ericameria laevifolia</i>	Turpentine Bush	1-Gal	45	As Per Plan
	<i>Lamena 'New Gold'</i>	New Gold Lamena	1-Gal	6	As Per Plan
	<i>Teucrium chrysanthyoides</i>	Gemander	1-Gal	21	As Per Plan
<b>MISCELLANEOUS</b>					
	DG	Decomposed Granite - (Size: 1/4" Screened - Color: Express Gold)	2" depth in all planting areas (typ)		

LANDSCAPE AREA FRONT OF WAY PROVIDED: 708 SF, 743 SF.  
 PARKING LOT LANDSCAPING REQUIRED: 1027 SF + 33 + 3952 SF, 163 SF + DR.  
 INTERIOR PARKING LOT LANDSCAPING REQUIRED: 36 SF + 4 2730 SF, 430 SF + DR.  
 NATIVE TREES: 60%

COLLABORATIVE V DESIGN STUDIO INC.  
 7116 EAST 151 AVENUE, SUITE 102  
 SCOTTSDALE, ARIZONA 85253  
 OFFICE: 480-347-0550 FAX: 480-416-4012

LAISON Associates Architects, Inc.  
 3807 North 24th Street, Suite 102



STAMPER HANGAR  
 16061 NORTH 81ST STREET

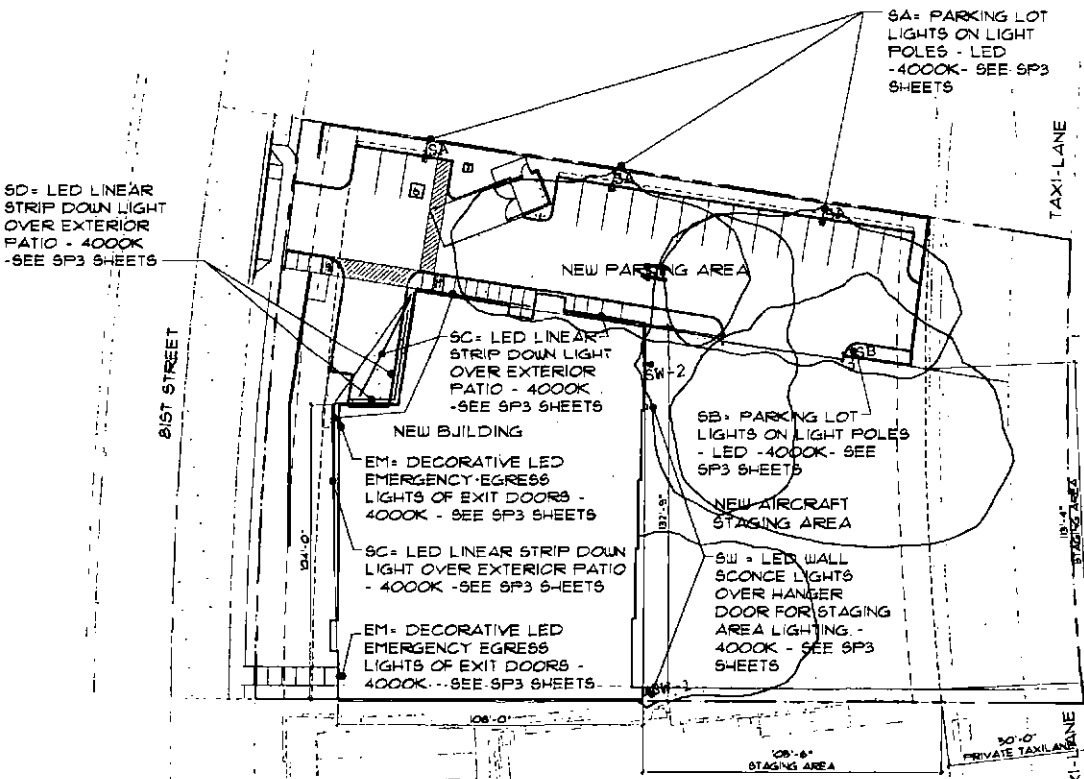


DATE: 01/15/10  
 PROJECT: STAMPER HANGAR  
 DRAWING: PLANTING PLAN

DATE: 01/15/10  
 PROJECT: STAMPER HANGAR  
 DRAWING: PLANTING PLAN

**SEE SP3.0 & SP3.1 FOR FIXTURE CUT SHEETS  
LIGHTING GENERAL NOTES**

1. IN ACCORDANCE WITH SEC. 1600 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE SHOWN TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF TO DIRECT IT DOWNWARD.
2. ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT (8) FEET OR HIGHER, ABOVE ADJACENT FINISH GRADE, SHALL BE DIRECTED DOWNWARD.
3. ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD.
4. LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IES) REQUIREMENTS FOR FULL CUT OFF.



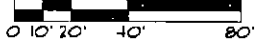
**EXTERIOR SITE LIGHTING PLAN**

SCALE: 1"=20'-0"

**NORTH**



GRAPHIC SCALE 1"=20'-0"



LOISON ASSOCIATES ARCHITECTS, INC.  
3807 North 24th Street, Suite 100

STAMPER HANGAR  
16061 NORTH B1ST STREET  
SCOTTSDALE, AZ

JUN 2016  
EXPIRE  
6/30/2016

DATE  
06-01-16

PROJ.  
NUMB  
IT-025

SHEET  
NUMB  
SP1

49-DR

**ATTACHMENT 12**

# LUMINARIES SCHEDULE

<p>LABEL SA</p> <p>SYMBOL -0</p> <p>MANUFACTURER BEACON PRODUCTS</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 20'</p> <p>DESCRIPTION VPL (VIPER) - 64L-135 - 4K1 - 4W - 120-277V - BC</p> <p>LUM. LUMENS 17317</p> <p>LUM. WATTS 126</p> <p>QUANTITY 3</p>	<p>LABEL SB</p> <p>SYMBOL -0</p> <p>MANUFACTURER BEACON PRODUCTS</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 20'</p> <p>DESCRIPTION VPL (VIPER) - 80L-180 - 4K1 - 4W - 120-277V</p> <p>LUM. LUMENS 22019</p> <p>LUM. WATTS 122</p> <p>QUANTITY 1</p>
<p>LABEL SW-1 &amp; SW-2</p> <p>SYMBOL -</p> <p>MANUFACTURER BEACON PRODUCTS</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 20'</p> <p>DESCRIPTION VPL (VIPER) - (SW-1: 80L-180) - (SW-2: 64L-135) 4K1 - 4W - UNV 120-277V - WB - BC</p> <p>LUM. LUMENS (SW-1: 22019) (SW-2: 17317)</p> <p>LUM. WATTS (SW-1: 122) (SW-2: 126)</p> <p>QUANTITY 2</p>	<p>LABEL SC</p> <p>SYMBOL -</p> <p>MANUFACTURER FOCAL POINT LLC</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 13.5'</p> <p>DESCRIPTION FSM2LWL-FL-125LF-4000K-IC-UNV 120-277V-LDI-WH</p> <p>LUM. LUMENS 500</p> <p>LUM. WATTS 96</p> <p>QUANTITY 47</p>
<p>LABEL SD</p> <p>SYMBOL -</p> <p>MANUFACTURER FOCAL POINT LLC</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 13.5'</p> <p>DESCRIPTION FSM2LWL - FL - 250LF - 4000K - IC - UNV 120-277V - LDI - WH</p> <p>LUM. LUMENS 1000</p> <p>LUM. WATTS 80</p> <p>QUANTITY 15</p>	<p>LABEL EM</p> <p>SYMBOL -</p> <p>MANUFACTURER LUMINAIRE LED INC</p> <p>LAMP TYPE LED</p> <p>TEMPERATURE 4000K</p> <p>MOUNTING HEIGHT 9'</p> <p>DESCRIPTION AEL 36 - 36" 15W - 4000K - 120-277V - DP - EMB310</p> <p>LUM. LUMENS 1310</p> <p>LUM. WATTS 15</p> <p>QUANTITY 2</p>

# CALCULATION SUMMARY

CALCULATION TYPE  
ILLUMINANCE

UNITS  
FOOT CANDLES

AVERAGE  
1.79 FC

MAXIMUM  
7.9 FC

MINIMUM  
0.0 FC

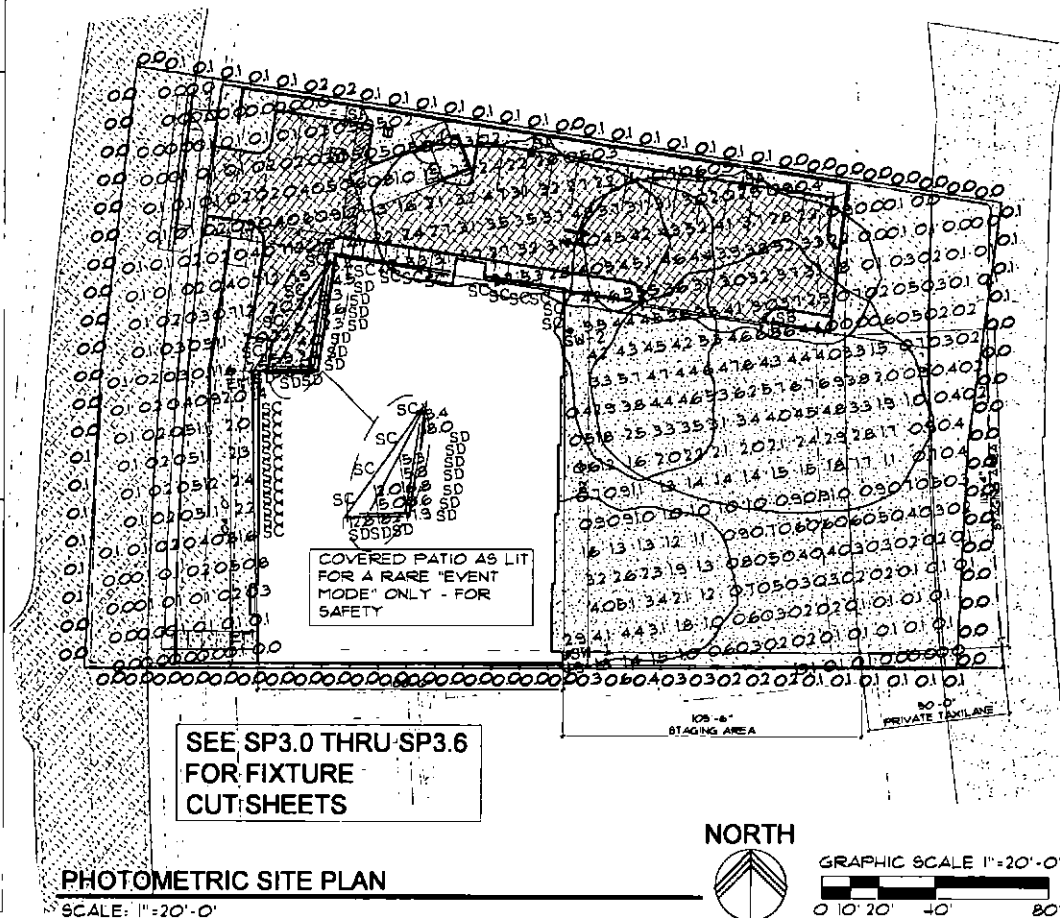
IN ACCORDANCE WITH SEC. 1600 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE SHOWN TO BE DIRECTED DOWNWARD OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF TO DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINARIES THAT ARE MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD

ALL EXTERIOR LUMINARIES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1602.A2 OF THE ZONING ORDINANCE)

LUMINARIES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IES) REQUIREMENTS FOR FULL CUTOFF. (TABLE 1602.A2 OF THE ZONING ORDINANCE)

NO SITE LIGHTING FIXTURE SHALL BE MOUNTED HIGHER THAN 20 FEET (CITY OF SCOTTSDALE EXTERIOR LIGHTING POLICY AND DSM)



LAISSON Associates Architects, Inc.  
3807 North 24th Street Suite 100

STAMPER HANGAR  
1606 NORTH 81ST STREET  
SCOTTSDALE AZ 85257

EXPIRES  
6/30/22  
DATE  
06-08-2022

PROJ. NUMB  
17-021

SHEET NUMB  
SP1

CONFORMANCE WITH SEC. 1600 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE MOUNTED TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT WALKWAY SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1602.A.2 OF THE ZONING ORDINANCE)

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE MINIMIZING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 1602.A.2 OF THE ZONING ORDINANCE)

 <p><b>VIPER L</b> STRIKE LARGE VEPOR LUMINAIRE</p>	<p>Model #</p>	<p>Type</p>	 <p>Approvals</p>
	<p>Job</p>	<p>SA</p>	

**SPECIFICATIONS**

**Intended Use:**  
The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HIC lighting up to 100W HIC or HPS. Luminaires are suitable for wet locations.

**Construction:**

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM D117 corrosion test requirements and ASTM D2222 tracking and loss of adhesion test requirements.
- Original hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lenses, optics, gasket and stainless steel case.
- Cartridge is held together with internal brass screws, soldered to the board so that it can be field replaced as a one piece optical system.
- Two piece silicone anti-reflective and polycarbonate foam gasket ensures a weather proof seal around each individual optic.

**Electrical:**

- Luminaire accepts 100V through 277V 50 Hz to 60 Hz (180V, 247V or 480V input).
- Power factor is a .90 at full load.
- Dimming drivers are standard, but must be replaced to meet requirements for dimming.
- Component-to-component wiring within the luminaire may vary no more than 30% of rated load and is certified by UL for use at 600VAC, 15A or higher. 15A rating applies to primary (AC) side only.
- Fabric electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136-41 2013 twist lock photo control receptacle available. Compatible with ANSI C136-41 external wireless control devices.
- Surge protection - 20kA.
- Unearthed™ Circuit - protects luminaire from excessive temperatures. The device shall activate at a specific factory preset temperature, and progressively reduce power over a finite temperature range. Operation of the device shall be smooth and unobtrusive to the eye. Thermal circuit is designed to "fail open", allowing the luminaire to return to full power in the event of an interruption of its power supply, or faulty wiring connection to the device. The device shall be able to co-exist with other 0-10V control device occupancy sensors, external dimmers, etc.

**Controls/Options:**

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 90° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Product if product requirements vary from standard configuration.
- Available with Energy for optimal not dimming, smart dimming with scene recall, or smart dimming based on time of night (see www.beaconlighting.com/energy).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit [www.hubbello.com/site-sync](http://www.hubbello.com/site-sync).

**Installation:**

- Mounting options for horizontal arm, vertical lamp or traditional arm mounting available. Mounting hardware included.
- FS polyester powder coat electrostatically applied and thermoset. FS finish consists of a thin tough polyester primer with a polyurethane primer sealer and top coated with a thermoset super TGIC polyester powder coat finish.
- The finish meets the ASTM 2004 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resists chalking or loss of adhesion per ASTM D2242 and resists surface impacts of up to 100 inch-pounds.

**Certifications/Ratings:**

- DesignLights Consortium (DLC) qualified product. DLC website for more details: [www.dlc.com](http://www.dlc.com)
- Certified to UL 1598, UL 1870, and CSA C22.7
- 30 rated for ANSI C136.41 high vibration applications with MAP mounting.
- IP68 approved.
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate spec available at [www.beaconlighting.com/specs/FloridaFishAndWildlifeSpec](http://www.beaconlighting.com/specs/FloridaFishAndWildlifeSpec).

**Warranty:**  
Five year limited warranty. For more information visit [www.beaconlighting.com/warranty](http://www.beaconlighting.com/warranty).

**PRODUCT IMAGE(S)**



**DIMENSIONS**

A	B	C	D	Height	EPA
29.9"	24.18"	14.25"	4.13"	25.0 lbs	1.2 R*
(741 mm)	(614 mm)	(362 mm)	(105 mm)	(11.3 kg)	

**MOUNTING OPTIONS**



**CERTIFICATIONS/LISTINGS**



Beacon Products • 2041 58th Avenue Circle East, Bradenton, FL 34203 • Phone: 800-345-4928  
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.  
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SA PARKING LOT LIGHT POLE FIXTURE 1 OF 5  
SCALE: NOT TO SCALE

**ORDERING INFORMATION** ORDERING EXAMPLE: VPL/96L-280K/4W/UNVA/DB/7P-TL/GENI-04/BC

SERIES	LED ENGINE	CCT/CW	ROTATION	VOLTAGE	COLOR	OPTIONS
VPL Vepor	96L-135 135W LED array	3K7 3000K, 70 CR	Leave blank for no rotation	UNW 120-277V	BL Black Textured	F Fusing
	96L-180 180W LED array	4K7 4000K, 70 CR	L <sup>1</sup> Optic rotation left	120 120V	DB Dark Bronze Textured	BSP Bird Spikes
	96L-225 225W LED array	5K7 5000K, 70 CR	R <sup>1</sup> Optic rotation right	208 208V	GYS Light Gray Smooth	BC Backlight control (limited to Type 4W only)
	96L-280 280W LED array			240 240V	PS Platinum Silver Smooth	
	96L-300 300W LED array			277 277V	WH White Textured	
	96L-315 315W LED array			347 347V	CC Custom Color	
	96L-360 360W LED array			480 480V		

**DISTRIBUTION**

FR Type 1/Front Row  
 2 Type 2  
 3 Type 3  
 4 Type 4  
 4W Type 4 Wash

**SGM Type SGM**  
**SQN Type SQN**  
**SR Type SR (rectangular)**  
**SW Type SW (round wide)**

**ROTATION**  
 Leave blank for no rotation  
 L<sup>1</sup> Optic rotation left  
 R<sup>1</sup> Optic rotation right

**VOLTAGE**  
 UNW 120-277V  
 120 120V  
 208 208V  
 240 240V  
 277 277V  
 347 347V  
 480 480V

**COLOR**  
 BL Black Textured  
 DB Dark Bronze Textured  
 GYS Light Gray Smooth  
 PS Platinum Silver Smooth  
 WH White Textured  
 CC Custom Color

**OPTIONS**  
 F Fusing  
 BSP Bird Spikes  
 BC Backlight control (limited to Type 4W only)

**CONTOUR OPTIONS**

7PR 7-Pin Receptacle with internal cap, photo control or wireless control (provided by others)  
 7PR-SC 7-Pin Receptacle w/Shorting Cap  
 7PR-TL 7-Pin Receptacle w/ Twist Lock photo control  
 SCP<sub>1</sub>\_P<sub>1</sub> Programmable Occupancy Sensor w/ Twilight control (120-277 with only)  
 GEN-XX<sup>™</sup> Genie  
 SWP<sub>1</sub> SiteSync Pre-Commission  
 SWPM<sub>1</sub> SiteSync Pre-Commission w/ Sensor

**MOUNTING**

A Rectangular Arm (formerly RV) for square or round pole  
 MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm  
 K Knuckle (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical beam  
 WB Wall Bracket  
 AD Universal Arm for square pole  
 AD3 Universal Arm for 2.4"-4.1" round pole  
 AD4 Universal Arm for 4.2"-5.3" round pole  
 AD5 Universal Arm for 5.5"-5.9" round pole  
 AD6 Universal Arm for 6.0"-6.5" round pole

**ROOF SIDE SHELD ACCESSORIES**

HSS/EVP-L790-FB/XXX	90° shield front or back
HSS/EVP-L720-FB/XXX	90° shield left or right
HSS/EVP-L720-FB/XXX	270° shield front or back
HSS/EVP-L720-FB/XXX	270° shield left or right
HSS/EVP-L360/XXX	Full shield

Reduce ESH with relation to desired hole sizes.  
 Refer to page 10 for more details.

**MOUNTING ACCESSORIES**

VPL-AD-RP23	2.4"-4.1" Round Pole Adapter for AD arm
VPL-AD-RP44	4.2"-5.3" Round Pole Adapter for AD arm
VPL-AD-RP45	5.5"-5.9" Round Pole Adapter for AD arm
VPL-AD-RP46	6.0"-6.5" Round Pole Adapter for AD arm

Not available with other wireless control or sensor options.  
 Specify mounting height: 8' or 10', or 12', or 14', or 16'.  
 Specify remote wireless control system: 020-045. See 020/045 structure and instructions for setting table and options. Not available with sensor or Bird Spike option.  
 Specify pole and size of hole of pole. See www.beaconlighting.com/catalog for further details. Oper at least one (1) luminaire. Weather accessories (SWP or SWPM). Each option requires Product License (PL) and 3rd Party Fee.  
 Only available with 15, 2, 3, 4, 4W or all distribution.  
 Pole at least one (1) luminaire per project location to program and control the occupancy sensor. See our website at [www.beaconlighting.com/occupancy-sensors](http://www.beaconlighting.com/occupancy-sensors) for more information.  
 SiteSync features with Motion Control (SRPM) require the mounting height of the fixture for selection of the lens.

**PROFESSIONAL ELECTRICAL ENGINEERING INFORMATION:** When installing a fixture with the SiteSync lighting control system, additional information will be required to complete the order: The SiteSync Configuration Form or alternate electrical information must be completed. This form includes Project Location, Group information, and Operating conditions. For more detailed information please visit [www.beaconlighting.com/site-sync](http://www.beaconlighting.com/site-sync) or contact Hubbell Lighting with support at (800) 345-4928.


SiteSync fixtures with Motion Control (SRPM) require the mounting height of the fixture for selection of the lens.  
 Ordering: VPL-96L-280K/4W/UNVA/DB/7P-TL/GENI-04/BC  
 VPL-96L-280K/4W/UNVA/DB/7P-TL/GENI-04/BC  
 SiteSync only  
 SiteSync with Motion Control

**Hubbell Control Solutions - See separate order**

Catalog Number	Description	HCS System
SCIP-REMOTE	Remote Control for 50W, 7-pin option. Order at least one per project to program and control the occupancy sensor.	
SWUSB*	SiteSync interface software loaded on USB flash drive for use with user supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node.	
SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB radio bridge node.	
SWBR*	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.	
SW7PR*	SiteSync 7 Pin on fixture module Div/OT/DM, Daylight Sensor 120-480VAC.	

\*When ordering SiteSync, at least one of these two additional options must be ordered per project.  
 \*Available as a SiteSync option for fixtures with an existing 7-pin receptacle.

**SiteSync 7-Pin Module**



All of the SiteSync Features in a new form!  
 Available as an accessory for new construction or retrofit applications with existing 7-Pin receptacles  
 Available on all products that have a 7-Pin receptacle

BEACON Lighting  
 Beacon Products • 2041 58th Avenue Circle East, Bradenton, FL 34203 • Phone: 800-345-4928  
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.  
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SA PARKING LOT LIGHT POLE FIXTURE 2 OF 5  
SCALE: NOT TO SCALE

IN ACCORDANCE WITH SEC. 16-02.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE MOUNTED TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF AND DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

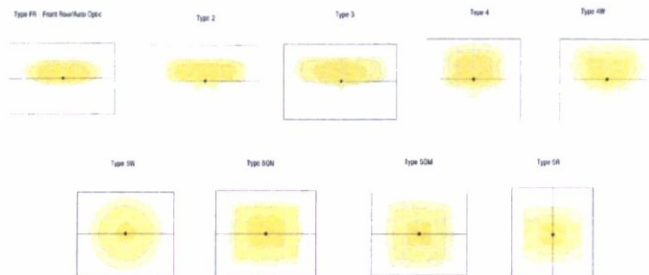
ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 16-02.A.2. OF THE ZONING ORDINANCE)

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16-02.A.2 OF THE ZONING ORDINANCE)

PERFORMANCE DATA			5K (5000K nominal, 70 CRI)				4K (4000K nominal, 70 CRI)				3K (3000K nominal, 70 CRI)								
# LED'S	DRIVE CURRENT (mA/LAMP)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS	LFW	B	U	G	LUMENS	LFW	B	U	G	LUMENS	LFW	B	U	G	
64	625 mA	135W	FR	19220	132	2	0	2	16793	132	2	0	2	16341	119	2	0	2	
			2	17228	125	2	0	2	17391	126	2	0	2	15452	112	2	0	2	
			3	17437	126	2	0	3	17291	126	2	0	3	15476	112	2	0	3	
			4	16664	123	1	0	4	17396	126	1	0	4	15125	110	1	0	4	
			4W	16737	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3	
			SOM	17299	125	4	0	2	17792	129	4	0	2	16479	112	4	0	2	
			SR	16923	123	4	0	3	16993	126	4	0	3	16165	112	4	0	3	
			SR	17419	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4	
			SW	16496	120	4	0	2	17009	124	4	0	3	14797	108	4	0	2	
			FR	22530	128	2	0	2	22948	132	2	0	2	20835	115	2	0	2	
			2	21965	121	3	0	3	22045	125	3	0	3	19701	109	2	0	3	
			3	22003	121	2	0	4	22983	125	3	0	4	19734	109	2	0	4	
80	700 mA	180W	FR	21502	119	2	0	4	22182	122	2	0	4	19265	106	2	0	4	
			4	21416	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4	
			SOM	22005	121	4	0	2	22626	125	4	0	2	19736	109	4	0	2	
			SR	22529	122	4	0	1	23889	131	4	0	1	20810	114	4	0	1	
			SR	22497	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4	
			SRW	21035	116	5	0	3	21888	120	5	0	3	18887	104	4	0	3	
			FR	21248	121	2	0	2	20711	126	2	0	2	18918	106	2	0	2	
			2	20534	114	3	0	3	21748	118	3	0	4	17819	102	3	0	3	
			3	20329	114	3	0	4	21794	118	3	0	4	17859	103	3	0	4	
			4	20777	112	2	0	4	20575	115	2	0	5	17120	100	2	0	4	
			4W	20476	113	3	0	4	20469	119	3	0	4	17628	100	3	0	4	
			SOM	20381	114	4	0	2	21796	118	4	0	2	17861	103	4	0	2	
80	875 mA	235W	SOM	27546	119	5	0	1	28460	120	5	0	1	24708	107	5	0	1	
			SR	26911	115	5	0	5	27434	119	5	0	5	23666	104	4	0	4	
			SR	26418	109	5	0	3	25996	113	5	0	3	22618	106	5	0	3	
			FR	27276	120	2	0	2	28736	130	2	0	2	25602	115	2	0	2	
			2	26336	114	3	0	4	26484	126	3	0	4	23641	109	3	0	4	
			3	26403	121	3	0	4	27220	126	3	0	4	23681	109	3	0	4	
			4	26202	119	2	0	4	26900	122	2	0	5	23142	106	2	0	4	
			4W	26276	119	3	0	4	26484	126	3	0	4	23641	109	3	0	4	
			SOM	26406	121	4	0	2	27222	125	4	0	2	23683	109	4	0	2	
			SOM	27375	127	5	0	1	28427	131	5	0	1	24732	114	5	0	1	
			SR	26637	122	5	0	5	27460	128	5	0	5	23690	110	4	0	4	
			SR	25242	116	5	0	3	26293	120	5	0	3	22640	104	5	0	3	
96	700 mA	220W	FR	34419	121	3	0	2	34453	126	3	0	2	29974	108	2	0	2	
			2	31600	114	3	0	4	32517	118	3	0	4	28342	102	3	0	4	
			3	31854	114	3	0	5	32953	118	3	0	5	28390	102	3	0	4	
			4	30833	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5	
			4W	30810	111	3	0	5	31763	115	3	0	5	27634	100	3	0	4	
			4W	31857	114	5	0	3	32936	118	5	0	3	28293	103	4	0	2	
			SOM	33526	119	5	0	1	34080	123	5	0	1	29600	107	5	0	1	
			SR	31933	115	5	0	3	32921	119	5	0	3	28941	104	4	0	3	
			SR	30496	108	5	0	4	31198	113	5	0	4	27742	99	5	0	3	
			FR	35866	113	3	0	2	36789	117	3	0	2	31899	107	2	0	2	
			2	33726	107	3	0	4	34798	110	3	0	4	30249	98	3	0	4	
			3	33795	107	3	0	5	34627	110	3	0	5	30299	98	3	0	4	
96	1000mA	319W	4	33012	105	2	0	5	34033	108	2	0	5	29909	98	2	0	5	
			4W	30862	104	3	0	5	33889	107	3	0	5	29490	98	3	0	5	
			SOM	31795	107	5	0	3	34630	110	5	0	3	30300	98	4	0	2	
			SOM	35286	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1	
			SR	34086	108	5	0	5	35134	111	5	0	5	30567	97	5	0	5	
			SR	32852	102	5	0	4	33381	106	5	0	4	28972	92	5	0	4	
			FR	38569	101	3	0	4	43125	110	3	0	3	37518	98	3	0	2	
			2	37359	101	3	0	4	40793	104	3	0	4	35490	97	3	0	4	
			3	38819	101	3	0	5	40645	104	3	0	5	35332	97	3	0	3	
			4	38723	98	3	0	5	39921	101	3	0	5	34721	96	2	0	5	
			4W	36270	98	3	0	3	39793	101	3	0	5	34594	96	3	0	5	
			SOM	39623	101	5	0	3	40848	104	5	0	3	35330	92	5	0	3	
SOM	41384	105	5	0	1	42675	109	5	0	1	37727	92	5	0	1				
SR	39959	102	5	0	5	41205	105	5	0	5	35848	97	5	0	5				
SR	37377	97	5	0	1	39048	100	5	0	1	33986	87	5	0	1				

\* Lumen values are photometric. Data is provided in accordance with IESNA LM-79-08. Data is considered to be representative of the manufacturer's claims. Actual performance may differ as a result of end-user measurement and application. \*\* 171W and 305W 3000K versions are not DLC GPL listed. Reference highlighted cells in table.

PHOTOMETRICS



ELECTRICAL DATA

# OF LED'S	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			127		0.9
			131		0.8
			132		0.8
80	2	700 mA	120	180	0.8
			127		0.5
			131		0.4
			132		0.4
80	2	875 mA	120	215	1.0
			127		0.7
			131		0.6
			132		0.6
96	2	700 mA	120	220	1.6
			127		0.8
			131		0.7
			132		0.7
96	2	875 mA	120	290	1.2
			127		0.8
			131		0.7
			132		0.7
96	2	1000 mA	120	315	1.7
			127		1.0
			131		0.8
			132		0.8
96	2	1225 mA	120	395	1.7
			127		1.1
			131		0.9
			132		0.9

PROJECTED LUMEN MAINTENANCE

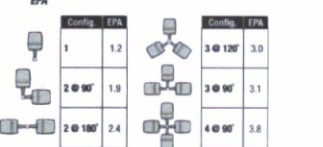
TEMP. 25°C / 77°F	LR-71-11				Calculated L70 (hrs)
	0	25,000	50,000	100,000	
1	0.96	0.87	0.87	0.96	>377,000

Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the 700mA beam model at a 20°C ambient, based on 10,000 hours of L70 testing per IESNA LM-80-08

DRILL PATTERN



EPA



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SA PARKING LOT LIGHT POLE FIXTURE 3 OF 5  
SCALE: NOT TO SCALE

SA PARKING LOT LIGHT POLE FIXTURE 4 OF 5  
SCALE: NOT TO SCALE

Laisson Associates Architects, Inc. 3807 North 24th Street, Suite 100  
STAMPER HANGAR 16061 NORTH 81ST STREET SCOTTSDALE, AZ 85258  
JUN 2018  
EXPIRE



IN ACCORDANCE WITH SEC. 16.02.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE MOUNTED DOWNWARD TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF AND DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR GREATER ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 16.02.02 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE REGULATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16.02.02 OF THE ZONING ORDINANCE)

### ORDERING INFORMATION ORDERING EXAMPLE: VPL-96L-280/4K/7W/UNI/A/D8/7P9-TL/GEN-04/BC

VPL	SERIES	LED ENGINE	CCT/CRI	ROTATION	VOLTAGE	COLOR	OPTIONS
VPL	Viper	96L-135 135W LED array	3K7 3000K, 70 CRI	Leave blank for no rotation!	UNV 120-277V	BL Black Textured	F Fusing
		96L-180 180W LED array	4K7 4000K, 70 CRI	L <sup>o</sup> Optic rotation left	120 120V	DB Dark Bronze Textured	BSF Steel Spikes
		96L-235 235W LED array	200 200W	R <sup>o</sup> Optic rotation right	200 200V	6T5 Light Gray Smooth	BC Backlight control (limited to Type 4W only)
		96L-280 280W LED array	8K7 5000K, 70 CRI		240 240V	PG Platinum Silver Smooth	
		96L-315 315W LED array			277 277V	WH White Textured	
		96L-365 365W LED array			347 347V	CC Custom Color	

DISTRIBUTION		MOUNTING		CONTROL OPTIONS	
FR	Type 1 (front flow)	A	Rectangular Arm (formerly RA) for square or round pole	7P9	7-Pin Receptacle only (selecting clip, photo control, or wireless control provided by others)
2	Type 2	MAP	Maxi Arm Filter (formerly SF2) for 2-3/8" OD horizontal arm	7P9-SG	7-Pin Receptacle w/Sliding Cap
3	Type 3	MFP	Mini Arm Filter (formerly SF2) for 2-3/8" OD horizontal arm	7P9-TL	7-Pin Receptacle w/Timed Lock (photo control)
4	Type 4	K	Knuck (formerly PK2) limit to 30° tilt or 2-3/8" OD horizontal arm or vertical lumen	SCP, P-44	Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
5	Type 5	WB	Wall Bracket	GEN-XX	ENERGIE
6	Type 6	AD3	Universal Arm for square pole	SWP-4	SiteSync Pre-Commission
7	Type 7	AD4	Universal Arm for 2.4"-4.1" round pole	SWP-24	SiteSync Pre-Commission w/ Sensor
8	Type 8	AD5	Universal Arm for 4.2"-5.3" round pole		
9	Type 9	AD6	Universal Arm for 5.2"-5.9" round pole		
10	Type 10	AD7	Universal Arm for 6.0"-6.5" round pole		

HOUSE SIDE SHIELD ACCESSORIES		ACCESSORIES AND SERVICES (Ordered Separately)	
HSS-EVP-L/ND-18/XXX	90° shield front or back	SW-8M2TE	Remote Control for SCP, P-44. Order at least one per project to program and control the occupancy sensor.
HSS-EVP-L/ND-18/XXX	90° shield front or right	SWP-4	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.
HSS-EVP-L/270-18/XXX	270° shield front or back	SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB radio bridge node.
HSS-EVP-L/270-18/XXX	270° shield left or right	SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
HSS-EVP-L/360/XXX	Full shield	SW7P9	SiteSync 7-Pin pin feature module On/Off/Dim, Daylight Sensor 120-480VAC.

MOUNTING ACCESSORIES		Hubbell Control Solutions - Accessories (sold separately)	
VPL-AD-RP43	2.4"-4.1" Round Pole Adapter for AD arms	SW-8M2TE	Remote Control for SCP, P-44. Order at least one per project to program and control the occupancy sensor.
VPL-AD-RP44	4.2"-5.3" Round Pole Adapter for AD arms	SWP-4	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.
VPL-AD-RP45	5.2"-5.9" Round Pole Adapter for AD arms	SWTAB*	Windows tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB radio bridge node.
VPL-AD-RP46	6.0"-6.5" Round Pole Adapter for AD arms	SWBRG	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.

SiteSync 7-Pin Module

SiteSync 7-Pin Module

- All of the SiteSync Features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Available on all products that have a 7-Pin receptacle

PERFORMANCE DATA		5K (5000K nominal, 70 CRI)				6K (6000K nominal, 70 CRI)				3K (3000K nominal, 70 CRI)									
# LEYS	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE				DISTRIBUTION TYPE				DISTRIBUTION TYPE								
			LUMENS	LPW*	B	U	G	LUMENS	LPW*	B	U	G	LUMENS	LPW*	B	U	G		
64	625 mA	135W	FR	16200	132	2	0	2	18780	137	2	0	2	15341	119	2	0	2	
			2	17226	135	2	0	2	17781	136	2	0	2	16452	112	2	0	2	
			3	17267	135	0	3	17781	135	0	3	17781	135	0	3	15479	112	0	3
			4	16884	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3	
			4W	16737	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3	
			50M	17269	135	4	0	2	17782	133	4	0	2	15479	112	4	0	2	
			50M	18023	131	4	0	0	18580	135	4	0	0	16165	117	4	0	0	
			SR	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4	
			SW	16688	130	4	0	2	17089	124	4	0	2	14737	108	4	0	2	
			2	21362	121	3	0	3	22645	125	3	0	3	19121	109	2	0	3	
3	22803	121	0	4	2	23683	125	0	4	2	19774	109	2	0	4				
4	21302	119	2	0	4	22167	122	2	0	4	18285	106	2	0	4				
4W	21416	118	2	0	4	22079	122	2	0	4	18009	106	2	0	4				
50M	20852	121	4	0	2	22088	124	4	0	2	18126	109	4	0	2				
50M	22079	122	4	0	1	23689	131	4	0	1	20010	114	4	0	1				
SR	22187	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4				
SW	21035	118	5	0	3	21686	120	5	0	3	18867	104	4	0	3				
FR	22149	121	5	0	2	23011	125	5	0	2	20079	108	2	0	2				
2	26334	114	3	0	3	27148	118	3	0	3	23819	102	3	0	3				
3	25777	112	2	0	4	26075	115	2	0	4	23629	102	3	0	4				
4	25777	112	2	0	4	26075	115	2	0	4	23629	102	3	0	4				
4W	25675	111	3	0	4	26469	115	3	0	4	23828	103	3	0	4				
50M	26381	114	4	0	2	27196	118	4	0	2	23661	103	4	0	2				
50M	27248	119	5	0	1	28889	123	5	0	1	24738	107	5	0	1				
SR	26811	115	5	0	5	27434	119	5	0	5	23883	104	4	0	4				
SW	26218	109	5	0	5	26988	113	5	0	5	23218	98	5	0	5				
FR	27878	128	5	0	2	28738	132	5	0	2	25002	115	2	0	2				
2	26509	121	3	0	3	27174	125	3	0	3	23641	103	3	0	3				
3	26403	121	3	0	3	27220	125	3	0	3	23641	103	3	0	3				
4	26509	121	3	0	3	27220	125	3	0	3	23641	103	3	0	3				
4W	25700	118	5	0	4	26494	122	5	0	4	23505	106	5	0	4				
50M	26406	121	4	0	2	27222	125	4	0	2	23663	103	4	0	2				
50M	27275	122	5	0	1	28427	131	5	0	1	24732	114	5	0	1				
SR	26657	122	5	0	5	27460	126	5	0	5	23880	110	4	0	4				
SW	25242	116	5	0	3	26023	120	5	0	3	22640	104	5	0	3				
FR	32418	121	3	0	2	33452	125	3	0	2	29974	108	2	0	2				
2	31800	114	3	0	4	32577	118	3	0	4	28362	102	3	0	4				
3	31864	114	3	0	5	32623	118	3	0	5	28390	102	3	0	4				
4	30953	112	2	0	5	31889	115	2	0	5	27744	102	2	0	5				
4W	30810	111	3	0	5	31763	115	3	0	5	27634	102	3	0	4				
50M	31867	114	5	0	3	32636	118	5	0	3	28993	103	4	0	2				
50M	33026	118	5	0	1	34580	123	5	0	1	30600	104	5	0	1				
SR	31833	115	5	0	5	32921	119	5	0	5	28841	104	5	0	5				
SW	30382	109	5	0	4	31188	113	5	0	4	27742	98	5	0	4				
FR	30566	113	3	0	2	30789	117	3	0	2	27889	101	2	0	2				
2	33729	107	3	0	4	34788	110	3	0	4	30009	96	3	0	4				
3	33782	107	3	0	5	34827	110	3	0	5	30009	96	3	0	4				
4	33072	105	2	0	5	34023	108	2	0	5	29009	94	2	0	5				
4W	32982	104	5	0	5	33999	107	5	0	5	29009	94	2	0	5				
50M	33785	107	5	0	3	34830	110	5	0	3	30302	97	5	0	2				
50M	35080	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1				
SR	34980	108	5	0	5	35134	111	5	0	5	30987	97	5	0	5				
SW	32302	102	5	0	4	33301	106	5	0	4	29972	92	5	0	4				
FR	39569	101	3	0	4	43125	110	3	0	3	37218	96	3	0	2				
2	39569	101	3	0	4	43125	110	3	0	4	35490	91	2	0	4				
3	39619	101	3	0	5	43645	114	3	0	5	35536	91	2	0	5				
4	38743	98	3	0	5	39921	101	3	0	5	34771	88	2	0	5				
4W	38570	98	5	0	5	39783	101	5	0	5	34694	88	2	0	5				
50M	39623	101	5	0	3	40848	104	5	0	3	35538	90	5	0	3				
50M	41394	105	5	0	1	43675	109	5	0	1	37227	95	5	0	1				
SR	39869	102	5	0	5	41205	105	5	0	5	35048	91	5	0	5				
SW	37877	97	5	0	4	39048	100	5	0	4	33988	87	5	0	4				

\*Lumen values are from photometric tests 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 on-site environment and application. \*\*110W and 130W 3000K versions are not UL ETL listed. Reference photometric data only.

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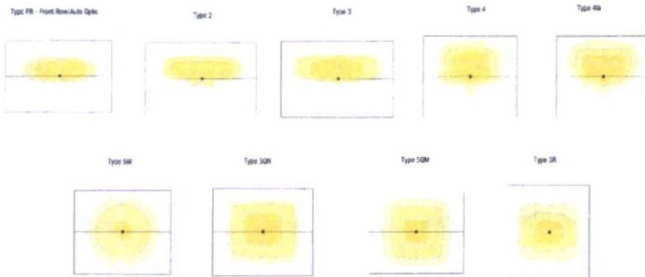
ACCORDANCE WITH SEC. 16.02.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 16.02.A.2 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16.02.A.2 OF THE ZONING ORDINANCE)

### PHOTOMETRICS



### ELECTRICAL DATA

# OF LEDs	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (AMPS)
64	1	625	135	84.4	0.6
		727	135	98.1	0.7
		854	135	115.3	0.8
		1000	135	135.0	1.0
80	2	700	180	126.0	0.9
		812	180	146.2	1.0
		950	180	171.0	1.1
		1100	180	198.0	1.3
80	2	875	205	180.6	1.2
		1012	205	207.5	1.4
		1175	205	238.9	1.6
		1350	205	276.8	1.8
96	2	700	230	161.0	1.1
		812	230	186.8	1.3
		950	230	218.5	1.5
		1100	230	255.0	1.7
96	2	875	280	246.0	1.7
		1012	280	283.4	2.0
		1175	280	327.8	2.3
		1350	280	378.0	2.7
96	2	1000	315	315.0	2.4
		1150	315	362.3	2.7
		1320	315	415.8	3.1
		1500	315	476.3	3.5
96	2	1225	360	436.5	3.1
		1400	360	504.0	3.6
		1600	360	576.0	4.1
		1800	360	648.0	4.7

### PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP	0	25,000	50,000	100,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

Presented per IESNA TM-21-11  
Data references extrapolated performance projections for the 7000k beam mode in a 25°C ambient, based on 10,000 hours of LED testing per IESNA TM-21-11.

### DRILL PATTERN



### EPA

Config	EPA	Config	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



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**SB** PARKING LOT LIGHT POLE FIXTURE 4 OF 5  
SCALE: NOT TO SCALE

### TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

(2.34" x 60 tenon)

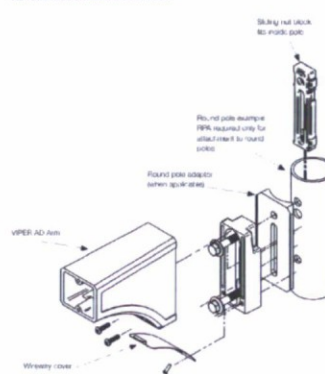
Accessory Number	Description
SETAWP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAWP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAWP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETAXXX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETAXXX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETAXXX	Hexagonal tenon adapter (3 at 120°) for AD - Universal Arm mounting option only

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



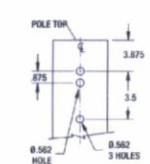
**HSS/EVP-L/90-FB/XXX** 90° shield front or back (2 shields shown)  
**HSS/EVP-L/90-LR/XXX** 90° shield left or right (1 shield shown in left orientation)  
**HSS/EVP-L/270-FB/XXX** 270° shield front or back (1 shield shown in back orientation)  
**HSS/EVP-L/270-LR/XXX** 270° shield left or right (1 shield shown in right orientation)  
**HSS/EVP-L/280/XXX** Full shield (1 shield shown)

### AD ARM MOUNTING INSTRUCTIONS



### DECORATIVE ARM (AD)

Compatible with pole drill pattern S2



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**SB** PARKING LOT LIGHT POLE FIXTURE 5 OF 5  
SCALE: NOT TO SCALE

LOISON Associates Architects, Inc.  
3807 North 24th Street, Suite 100  
Bradenton, FL 34203

STAMPER HANGAR  
16061 NORTH 81ST STREET  
SCOTTSDALE, AZ

EXPIRES  
6/30/2018  
DATE  
06-01-2018

PROJ  
NUMBER  
17-029

SHEET  
NUMBER  
SP-3

49-DR

IN ACCORDANCE WITH SEC. 1602.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE MOUNTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF AND DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1602.02 OF THE ZONING ORDINANCE).

EXTERIOR LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (MESA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 1602.02 OF THE ZONING ORDINANCE)

<b>VIPER L</b> <small>Light Fixtures</small> <b>STRIKE</b> LARGE VIBE LUMINAIRE	Cat.#		
	Job	Type	
		SW-1	

**SPECIFICATIONS**

**Intended Use:**  
The Beacon Viper luminaire is available in two sizes with a wide choice of different LED wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or HPS. Luminaires are suitable for wet locations.

**Construction:**

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM D317 corrosion test requirements and ASTM D2222 coating and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One-piece optical cartridge system consisting of an LED engine, LED lamp, optic, gasket and stainless steel case.
- Cartridge is also together with integral brass standoffs attached to the board so that it can be field replaced as a one-piece optical system.
- Two-piece silicone and microbubble polyurethane foam gasket ensures a weather-proof seal around each individual optic.

**Electrical:**

- Luminaire accepts 100V through 277V, 50 Hz to 60 Hz (ULN4, 347V, or 480V input).
- Power factor is a 90+ at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for control of external dimming control.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified by UL for use at 600VAC at 90°C or higher.
- Plug disconnects are certified by UL for use at 600 VAC, 15A or higher, 13A rating applies to primary (AC) side only.
- Future electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136-41 2013 twist lock photo control receptacle available. Compatible with ANSI C136-41 external wireless control device.
- Large protection - 20kA.
- LeakShield™ Circuit - protects luminaire from excessive temperature. The device shall activate as a safety, factory preset temperature, and progressively reduce power over a 1900 lumen range. Operation shall be smooth and unnoticeable to the eye. Thermal circuit is designed to "fail on", allowing the luminaire to return to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. The device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external dimmers, etc.).

**Controls/Options:**

- Available with an optional photo-ethanol (PE) motion sensor capable of detecting motion 360° around the luminaire. When no motion is detected for the specified time, the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PE sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Product if product requirements vary from standard config. price.
- Available with Energize for optional soft dimming, timed dimming with lamp data, or timed dimming lower or time of night (see [www.beaconproducts.com/products/energize](http://www.beaconproducts.com/products/energize)).
- In addition, Viper can be specified with SiteSync™ wireless control system for reduction in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit [www.hubbells.com/site-sync](http://www.hubbells.com/site-sync).

**Installation:**

- Mounting options for horizontal arm, vertical lamp or traditional arm mounting available. Mounting hardware included.

**Finish:**

- PE (polyester powder coat) electrostatically applied and thermoset. PE finish consists of a thin liquid pre-treatment primer with a pigment primer undercoat and top coated with a thermoset super 100% polyester powder coat finish.
- The finish meets the AIAA-A 2004 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and meets coating or loss of adhesion per ASTM D2222 and meets surface impacts of up to 100 inch-pounds.

**Certifications/Listing:**

- DesignLights Consortium (DLC) qualified, certified, DLC eligible for more details. [www.designlightsconsortium.com](http://www.designlightsconsortium.com)
- Certified to UL 1009, UL 9750, and CSA C22.2
- CE approved.
- This product is approved by the Florida and arc Wildlife Conservation Commission. Specifier should be aware at <http://www.floridawildlife.com/arc-specifier.asp>.

**Warnings:**  
Five year limited warranty, for more information visit [www.hubbells.com/beacon](http://www.hubbells.com/beacon).

**CERTIFICATIONS LISTINGS**

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SW1 AIRSIDE STAGING AREA WALL FIXT. 1 OF 5  
SCALE: NOT TO SCALE

**ORDERING INFORMATION** ORDERING EXAMPLE: VPL/96L-280/4K/4W/UN/A/DB/7P/TL/GEN/04-0C

VPL		LED ENGINE	CGT/CBI*	ROTATION	VOLTAGE	COLOR	OPTIONS
VPL Viper	64L-135L 135W LED array	3K7 3000K, 70 CR		Leave blank for no rotation	UNV 120-277V	BL Black Textured	F Fusing
	80L-180 180W LED array	4K7 4000K, 70 CR		L <sup>1</sup> Optic rotation left	120 120V	DB Dark Bronze Textured	BSP Bird Spikes
	96L-235 235W LED array	5K7 5000K, 70 CR		R <sup>1</sup> Optic rotation right	208 208V	GS Light Gray Smooth	BC Backlight control (limited to Type 4W only)
	96L-290 290W LED array				240 240V	PS Platinum Silver Smooth	
	96L-315 315W LED array				277 277V	WH White Textured	
	96L-395 395W LED array				480 480V	CC Custom Color	

DISTRIBUTION		CONTROL OPTIONS	
FR Type 1/Front Row		7PR 7-Pin Receptacle only starting cap, photo control or wireless control (provided by others)	
2 Type 2		7PR-SC 7-Pin Receptacle w/ Twist Lock photo control	
3 Type 3		7PR-TL 7-Pin Receptacle w/ Twist Lock photo control	
4 Type 4		SCP <sub>1</sub> /P <sub>1</sub> Programmable Occupancy Sensor w/ daylight control (120-277 with only)	
4W Type 4 Wides		GEN-XX ENERGY	
SQM Type SQM		SWP-1 SiteSync Pro-Commission	
SQM Type SQM		SWP-M SiteSync Pro-Commission w/ Sensor	
SR Type SR (rectangular)			
SW Type SW (round wide)			

MOUNTING		CONTROL OPTIONS	
A Rectangular Arm (formerly RA) for square or round pole		7PR 7-Pin Receptacle only starting cap, photo control or wireless control (provided by others)	
MAF Mast Arm Fitter (formerly SF2) for 2-3/8" OD horizontal arm		7PR-SC 7-Pin Receptacle w/ Twist Lock photo control	
K Knock-In (formerly PK2) limit to 3/8" or 2-3/8" OD horizontal arm or vertical lumen		SCP <sub>1</sub> /P <sub>1</sub> Programmable Occupancy Sensor w/ daylight control (120-277 with only)	
WB Wall Bracket		GEN-XX ENERGY	
AD Universal Arm for square pole		SWP-1 SiteSync Pro-Commission	
AD3 Universal Arm for 2.4"-4.1" round pole		SWP-M SiteSync Pro-Commission w/ Sensor	
AD4 Universal Arm for 4.2"-5.3" round pole			
AD5 Universal Arm for 5.5"-5.9" round pole			
AD6 Universal Arm for 6.0"-6.5" round pole			

**MOUSE SIDE SHIELD ACCESSORIES**

HSS/EP-L700-FB/XXX 10° shield front or back
HSS/EP-L700-LB/XXX 90° shield left or right
HSS/EP-L720-FB/XXX 270° shield front or back
HSS/EP-L720-LB/XXX 270° shield left or right
HSS/EPV-L360/XXX Full shield

Mouse side shield not available for square pole luminaire.

**MOUNTING ACCESSORIES**

VPL-AD-RP3 2.4"-4.1" Round Pole Adapter for AD arm
VPL-AD-RP4 4.2"-5.3" Round Pole Adapter for AD arm
VPL-AD-RP5 5.5"-5.9" Round Pole Adapter for AD arm
VPL-AD-RP6 6.0"-6.5" Round Pole Adapter for AD arm

Not available with other wireless control or sensor options. Specify mounting height: 8'-0" or max. 4'-0" to 8'-0". Specify gasket and size at time of order. See [www.hubbells.com](http://www.hubbells.com) for mounting instructions for setting table and options. See manual with sensor or bridge module. Only available with VPL 2.5, 4, 4W and 4W options. None of these are IFC/REPLI per project location for program and control the occupancy sensor. The product is approved by the Florida Fire and Safety Commission. See our site articles at: <http://www.beaconproducts.com/resources/occupancy-sensors> and <http://www.beaconproducts.com/resources/occupancy-sensors>.

**PROFESSIONAL ORDERING GUIDANCE INFORMATION:** When ordering a fixture with the SiteSync lighting control system, additional information will be required to complete the order. The Beacon Commissioning form or alternate address information must be completed. This form includes Project location, Group information, and Operating schedule. For more detailed information please visit [www.hubbells.com/site-sync](http://www.hubbells.com/site-sync) or contact Hubbell Lighting Tech support at 888-345-8838.

SiteSync fixtures with Motion control (SRPM) require the mounting height of the fixture for selection of the base.

Example: VPL-96L-235/4K/3W/UN/A/DB/7P/TL/GEN/04-0C	SiteSync only
VPL-96L-235/4K/3W/UN/A/DB/7P/TL/GEN/04-0C	SiteSync with Motion Control



**Hubbell Control Solutions - Accessories sold separately**

Catalog Number	Description	HCS System
SW-REM-1	Remote Control for SQP, P systems. Order at least one per project to program and control the occupancy sensor.	
SW-SW-1	SiteSync interface software based on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node.	
SW-TAB-1	Windows tablet and SiteSync interface software. Includes tablet with pre-installed software, SiteSync license and USB radio bridge node.	
SW-BRG-1	SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.	
SW-7PR-1	SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC.	

**SiteSync 7-Pin Module**

	<ul style="list-style-type: none"> <li>All of the SiteSync Features in a new form</li> <li>Available as an accessory for new construction or retrofit applications (with existing 7 Pin receptacle)</li> <li>Available on all products that have a 7-Pin receptacle</li> </ul>
--	--

For additional information related to these accessories please visit [www.hubbells.com/beacon](http://www.hubbells.com/beacon). Options available for use with integrated sensors, please visit [www.hubbells.com/beacon](http://www.hubbells.com/beacon) for details.

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SW1 AIRSIDE STAGING AREA WALL FIXT. 2 OF 5  
SCALE: NOT TO SCALE

LAISON Associates Architects, Inc.  
3807 North 24th Street, Suite 100

STAMPER HANGAR  
1606 NORTH 81ST STREET  
SCOTTSDALE, AZ

JUN 14 2018  
 EXPIRE  
 6/30/2018  
 DATE  
 06-06-2018  
 PROJ  
 NUMB  
 17-029  
 SHEET  
 NUMB  
 5P  
 49-DR

ACCORDANCE WITH SEC. 16-02.01 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE MOUNTED TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR GREATER ABOVE THE ADJACENT WALKWAY SHALL BE DIRECTED DOWNWARD.

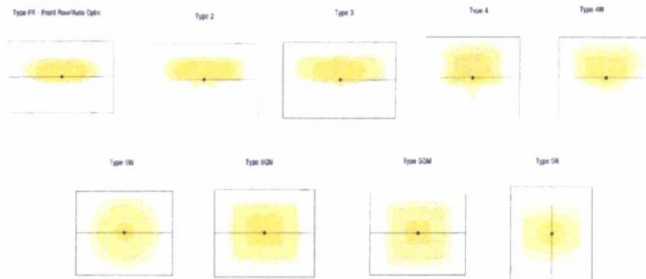
ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING CONTROL SYSTEM IN ACCORDANCE WITH TABLE 16-02.A2 OF THE ZONING ORDINANCE.

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE REGULATIONS OF THE ILLINOIS ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IIES) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16-02.A2 OF THE ZONING ORDINANCE)

PERFORMANCE DATA			3K (3000K nominal, 70 CRI)															
# LED'S	DRIVE CURRENT (mA/AMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	3K (3000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					5K (5000K nominal, 70 CRI)				
				LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
64	625 mA	135W	FR	18220	132	2	0	2	18793	132	2	0	2	16341	119	2	0	2
			2	17228	126	2	0	2	17781	126	2	0	2	15452	112	2	0	2
			3	17257	126	2	0	3	17791	126	2	0	3	15478	112	2	0	3
			4	16864	123	1	0	4	17386	126	1	0	4	15125	110	1	0	3
			4W	16797	122	2	0	3	17317	126	2	0	3	15066	109	2	0	3
			SOM	17258	125	4	0	2	17792	126	4	0	2	15479	112	4	0	2
			SR	16923	121	4	0	2	16980	126	4	0	2	16165	117	4	0	2
			SR	17410	127	4	0	4	17946	130	4	0	4	15615	113	4	0	4
			SR	16496	120	4	0	2	17059	124	4	0	3	14797	108	4	0	2
			FR	23230	158	2	0	2	23948	152	2	0	2	20935	115	2	0	2
80	700 mA	180W	2	21865	121	3	0	3	22645	125	3	0	3	19701	109	2	0	3
			3	22003	121	2	0	4	22883	125	3	0	4	19734	109	2	0	4
			4	21562	118	2	0	4	22182	122	2	0	4	19209	106	2	0	4
			4W	21418	118	2	0	4	22079	122	2	0	4	19209	106	2	0	4
			SOM	22022	121	4	0	2	22826	125	4	0	2	19736	109	4	0	2
			SR	22079	122	4	0	1	22889	121	4	0	1	20810	114	4	0	1
			SR	22197	122	4	0	4	22884	126	4	0	4	19909	110	4	0	4
			SR	21035	118	5	0	3	21686	120	5	0	3	18867	104	4	0	3
			FR	21448	121	2	0	2	22111	122	2	0	2	19818	108	2	0	2
			2	26334	114	3	0	3	27148	118	3	0	4	23619	102	3	0	3
80	875 mA	235W	3	26379	114	3	0	4	27194	118	3	0	4	23659	103	3	0	4
			4	25777	112	2	0	4	26675	115	2	0	5	23120	100	2	0	4
			4W	26475	113	3	0	4	26969	115	3	0	4	23268	100	3	0	4
			SOM	26381	114	4	0	2	27196	118	4	0	2	23861	103	4	0	2
			SR	27448	118	5	0	1	28450	123	5	0	1	24708	107	5	0	1
			SR	26811	115	5	0	5	27434	119	5	0	5	23868	104	4	0	4
			SR	22418	109	5	0	3	22686	113	5	0	3	22618	98	5	0	3
			FR	27876	126	2	0	2	28736	130	2	0	2	25652	115	2	0	2
			2	26326	119	3	0	3	27174	126	3	0	4	23841	109	3	0	4
			3	26403	121	3	0	4	27220	126	3	0	4	23881	109	3	0	4
96	700 mA	220W	4	22802	119	2	0	4	23600	122	2	0	5	20152	106	2	0	4
			4W	22864	119	2	0	4	23664	122	2	0	4	20188	106	2	0	4
			SOM	22806	121	4	0	2	23222	125	4	0	2	20683	109	4	0	2
			SR	22375	122	5	0	1	23427	121	5	0	1	24732	114	5	0	1
			SR	22637	122	5	0	5	23460	126	5	0	5	20280	110	4	0	4
			SR	22342	118	5	0	3	23023	120	5	0	3	22640	104	5	0	3
			FR	32419	121	3	0	2	34453	125	3	0	2	29874	108	2	0	2
			2	31660	114	3	0	4	32577	118	3	0	4	28547	102	2	0	4
			3	31654	114	3	0	5	32633	118	3	0	5	28390	102	2	0	4
			4	30833	112	2	0	5	31889	115	2	0	5	27744	100	2	0	5
96	875 mA	260W	4W	32810	113	3	0	5	33783	119	3	0	5	27924	101	2	0	4
			SOM	31857	114	5	0	3	32636	118	5	0	3	26363	103	4	0	2
			SR	33056	119	5	0	1	34080	123	5	0	1	29650	107	5	0	1
			SR	31933	115	5	0	5	32921	119	5	0	5	28941	104	5	0	5
			SR	30996	109	5	0	4	31196	113	5	0	4	27146	99	5	0	3
			FR	33666	113	3	0	2	35709	117	3	0	2	31889	107	2	0	2
			2	33725	107	3	0	4	34798	110	3	0	4	30240	96	2	0	4
			3	33746	107	3	0	5	34857	110	3	0	5	30290	96	2	0	4
			4	33012	105	2	0	5	34003	108	2	0	5	29009	94	2	0	5
			4W	33862	104	2	0	5	33889	107	2	0	5	29400	93	2	0	5
96	1000mA	319W	SOM	33785	102	5	0	3	34630	110	5	0	3	30390	95	5	0	2
			SR	35280	112	5	0	1	36371	115	5	0	1	31643	100	5	0	1
			SR	35080	108	5	0	3	35134	111	5	0	3	30567	97	5	0	3
			SR	35402	102	5	0	4	33301	106	5	0	4	29972	92	5	0	4
			FR	36269	101	3	0	4	43125	110	3	0	3	37218	96	3	0	2
			2	36269	101	3	0	4	40793	104	3	0	4	35490	97	3	0	4
			3	36810	101	3	0	5	40845	104	3	0	5	35335	97	3	0	5
			4	36723	96	3	0	5	36921	101	3	0	5	34771	93	2	0	5
			4W	36270	96	3	0	5	36763	101	3	0	5	34594	93	2	0	5
			SOM	39623	101	5	0	3	40848	104	5	0	3	35336	92	5	0	3
96	1225mA	305W	SR	41384	105	5	0	1	42875	109	5	0	1	37727	93	5	0	1
			SR	39969	102	5	0	5	41205	105	5	0	5	35640	97	5	0	5
			SR	37217	97	5	0	4	38649	100	5	0	4	33886	87	4	0	4

<sup>1</sup> Lumen values are photometric tests performed in accordance with IESNA LM-79-08. Data is consistent to the luminous efficacy of the surface area shown. Actual performance may differ as a result of end-user installation and application. <sup>2</sup> 319W and 305W 3050K versions are not DLC EPA listed. Reference highlighted cells in table.

### PHOTOMETRICS



### ELECTRICAL DATA

# OF LED'S	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (Amps)
64	1	625 mA	120	135	1.4
			125	135	1.5
			130	135	1.6
			135	135	1.7
80	2	700 mA	120	180	2.8
			125	180	3.0
			130	180	3.2
			135	180	3.4
80	2	875 mA	120	235	3.8
			125	235	4.0
			130	235	4.2
			135	235	4.4
96	2	700 mA	120	220	3.4
			125	220	3.6
			130	220	3.8
			135	220	4.0
96	2	875 mA	120	260	4.0
			125	260	4.2
			130	260	4.4
			135	260	4.6
96	2	1000 mA	120	315	4.8
			125	315	5.0
			130	315	5.2
			135	315	5.4
96	2	1225 mA	120	305	4.6
			125	305	4.8
			130	305	5.0
			135	305	5.2

### PROJECTED LUMEN MAINTENANCE

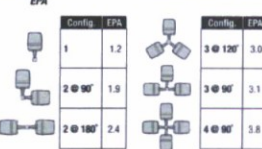
AMBIENT TEMP	0	25,000	50,000	TM 21-11	Calculated L70
25°C / 77°F	1	0.98	0.97	0.96	HOURS
					~377,000

Projected per IESNA TM-21-11  
Data references the extrapolated performance projections for the 70000 hours model in a 20°C ambient, based on 10,000 hours of L70 testing per IESNA LM-80-08

### DRILL PATTERN



### EPA



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SW1 AIRSIDE STAGING AREA WALL FIXT. 3 OF 5  
SCALE: NOT TO SCALE

SW1 AIRSIDE STAGING AREA WALL FIXT. 4 OF 5  
SCALE:

ACCORDANCE WITH SEC. 16-02.01 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE DOWN TO BE DIRECTED UNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT BE MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT GROUND GRADE SHALL BE DIRECTED DOWNWARD.

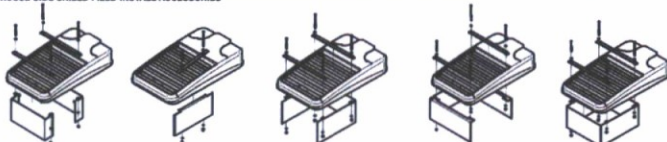
EXTERIOR LUMINAIRES WITH INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING FIELD (TABLE 16-02.A2 OF THE ZONING ORDINANCE

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16-02.A2 OF THE ZONING ORDINANCE)

### TENON TOP POLE BRACKET ACCESSORIES (Order Separately) (2 3/8" ØD Tenon)

Part Number	Description
SETAWP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAWP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
TETAWP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETAZXX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETAZXX	Round tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
TETAZXX	Hexagonal tenon adapter (4 at 120°) for AD - Universal Arm mounting option only

### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



HSS/EVP-L-90-FB/XXX  
90° shield front or back  
(2 shields shown)

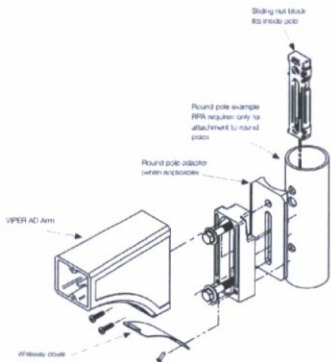
HSS/EVP-L-90-LR/XXX  
90° shield left or right  
(1 shield shown in left orientation)

HSS/EVP-L-270-FB/XXX  
270° shield front or back  
(1 shield shown in back orientation)

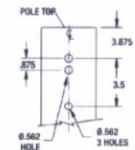
HSS/EVP-L-270-LR/XXX  
270° shield left or right  
(1 shield shown in right orientation)

HSS/EVP-L-360/XXX  
Full shield  
(1 shield shown)

### AD ARM MOUNTING INSTRUCTIONS



### DECORATIVE ARM (AD) Compatible with pole drill pattern S2



<b>VIPER L</b> LUMINAIRE <b>STRIKE</b> LARGE VIPER LUMINAIRE	Cat.#	Type SW-2	
	Job		

### SPECIFICATIONS

#### Intended Use:

The Beacon Viper luminaire is available in two sizes with a wide choice of different LCD wattage configurations and optical distributions designed to replace HID lighting up to 1000W MH or MHV. Luminaires are suitable for wet locations.

#### Construction:

- Manufactured with die cast aluminum.
- Coated with a polyester finish that meets ASTM D117 corrosion test requirements and ASTM D3359 cracking and loss of adhesion test requirements.
- External hardware is corrosion resistant.
- One piece optical cartridge system consisting of an LED engine, LED lenses, optics, gasket and stainless steel bezel.
- Cartridge is held together with internal brass standoffs so that it can be field replaced as a one piece optical system.
- Two-piece silicone and reusable polyethylene foam gasket ensures a weather-tight seal around each individual optic.

#### Electrical:

- Luminaire accepts 120V through 277V, 50 Hz to 60 Hz (LRA, 347V, or 480V input).
- Power factor is a .90 at full load.
- Dimming drivers are standard, but must contact factory to request wiring leads for exposure of external dimming controls.
- Component-to-component wiring within the luminaire may carry no more than 80% of rated load and is certified for UL use at 60°C or higher.
- Plug connectors are certified for UL use at 60°C, 15A or higher, 15A wiring applies to primary AC/DC side only.
- Relay electrical compartment shall contain all LED driver components and shall be provided with a push-button terminal block for AC power connections.
- Optional 7-pin ANSI C136.41 2013 twist lock photo control receptacle available. Compatible with ANSI C136.41 external wireless control devices.
- Ambient operating temperature -40°C to 40°C.
- Burge protection - 20kV.
- Unshielded Circuit - protects luminaire from excessive temperatures. The device shall activate at a specific factory preset temperature, and progressively reduce power over a brief temperature range. Operation shall be smooth and undetectable to the eye. Thermal circuit is designed to "fall off", allowing the luminaire to revert to full power in the event of an interruption of its power supply, or faulty wiring connection to the drivers. This device shall be able to co-exist with other 0-10V control devices (occupancy sensors, external cameras, etc.)

#### Controls/Options:

- Available with an optional passive infrared (PIR) motion sensor capable of detecting motion 180° around the luminaire. When no motion is detected for the specified time the motion response system reduces the wattage to factory preset level, reducing the light level accordingly. When motion is detected by the PIR sensor, the luminaire returns to full wattage and full light output. Please contact Beacon Products if project requires wiring away from standard configuration.
- Available with Emerges for options, set dimming, timed dimming with single delay, or timed dimming based on time of night (see [www.beaconproducts.com/products/emerges/](http://www.beaconproducts.com/products/emerges/)).
- In addition, Viper can be controlled with **StarSync™** wireless control system for modulation in energy and maintenance costs while optimizing light quality 24/7. For more details, see ordering information or visit: [www.hubbell.com/star-sync](http://www.hubbell.com/star-sync).

#### Installation:

- Mounting options for horizontal arm, vertical tenon or traditional arm mounting available. Mounting hardware included.

#### Finish:

- FS powder powder coat electrocoatability applied and thermocured. FS finish consists of a base stage preparation regimen with a polymer primer, sealer and top coated with a thermocured super TGI polyester powder coat finish.
- The finish meets the NEMA 2504 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance and resist cracking or loss of adhesion per ASTM D522 and resist surface impacts up to 160 inch-pounds.

#### Certifications/ listings:

- Designlights Consortium (DLC) qualified, consult DLC website for more details: <http://www.designlights.org/DLC>
- Certified to UL 1585, UL E950, and CSA C22.2.
- 3U - used for ANSI C136.31 high vibration applications with MAF mounting.
- CSA approved.
- This product is approved by the Florida Fish and Wildlife Conservation Commission. Separate notice available at: <http://www.beaconproducts.com/usa/usa/usa>

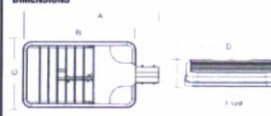
#### Warranty:

Five year limited warranty for more information visit: [www.beaconproducts.com/usa/usa/usa](http://www.beaconproducts.com/usa/usa/usa)

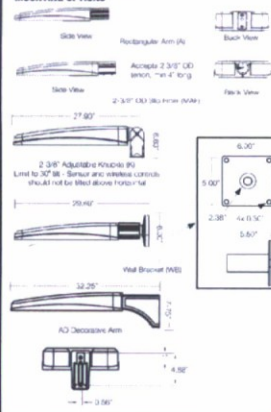
### PRODUCT IMAGE(S)



### DIMENSIONS



### MOUNTING OPTIONS



### CERTIFICATIONS/LISTINGS



3000V and outdoor CCTs to 65K



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SW1 AIRSIDE STAGING AREA WALL FIXT. 5 OF 5  
SCALE: NOT TO SCALE

SW2 AIRSIDE STAGING AREA WALL FIXT. 1 OF 5  
SCALE: NOT TO SCALE

IN ACCORDANCE WITH SEC. 1602.02.1 OF THE ZONING ORDINANCE, ALL LIGHT FIXTURES SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECTED DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT WALKWAY GRADE SHALL BE DIRECTED DOWNWARD.

ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1602.A.2 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE REGULATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF (TABLE 1602.A.2 OF THE ZONING ORDINANCE).

**ORDERING INFORMATION** ORDERING EXAMPLE: VPL/96L-280/4K7/4W/UNV/A/DB/7PR-TL/GEN-04/BC

VPL	LED ENGINE	CCT/CR	ROTATION	VOLTAGE	COLOR	OPTIONS
VPL Viper	96L-125 135W LED array	3K7 3000K, 70 CRI	Leave blank for no rotation	UNV 120-277V	BL Black Textured	F Fusing
	96L-160 135W LED array	4K7 4000K, 70 CRI	L* Optic rotation left	120 120V	DB Dark Bronze Restored	BSP Bird Spikes
	96L-220 220W LED array	2K7 2000K, 70 CRI	R* Optic rotation right	208 208V	GS Light Gray Smooth	BC Backlight control (limited to Type 4W only)
	96L-220 220W LED array	8K7 5000K, 70 CRI		240 240V	PS Platinum Silver Smooth	
	96L-280 280W LED array			277 277V	WH White Textured	
	96L-315 315W LED array			347 347V	CC Custom Color	
	96L-365 365W LED array			480 480V		

DISTRIBUTION	CONTROL OPTIONS
FR Type 1 Round Row	7PR 7-Pin Recastable only (shorting cap, photo control, or wireless control provided by others)
2 Type 2	7PR-SC 7-Pin Recastable w/Shorting Cap
3 Type 3	7PR-TL 7-Pin Recastable w/Tie Lock (photo control)
4 Type 4	SCP <sub>1</sub> P <sub>1</sub> Programmable Occupancy Sensor w/ daylight control (120-277 volts only)
4W Type 4 Wide	GEN-XX ENERGY
SOM Type SOM	SWP <sup>24</sup> SiteSync Pro-Commission
SON Type SON	SWP <sup>24</sup> SiteSync Pro-Commission w/ Sensor
SR Type SR (rectangular)	
SW Type SW (round wide)	

MOUNTING	ACCESSORIES AND SERVICES (Ordered Separately)
A Rectangular Arm (formerly RA) for square or round pole	<b>SCIP-REMOTE</b> Remote Control for SCP <sub>1</sub> / F option. Order at least one per project to program and control the occupancy sensor.
MAP Mast Arm Filter (formerly SF2) for 2-3/4" OD horizontal arm	<b>SWPUB*</b> 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.
K Knockouts (formerly PK) (not to 3/8" fit or 2-3/4" OD horizontal arm or vertical tenon)	<b>SWTAB*</b> Windows tablet and SiteSync interface software, includes tablet with preloaded software, SiteSync license and USB radio bridge node.
WB Wall Bracket	<b>SWBRG</b> SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested.
AD Universal Arm for square pole	<b>SW7PR*</b> SiteSync 7-Pin on fixture module (ON/Off, Daylight Sensor, 120-480VAC)
AD <sup>2</sup> Universal Arm for 2.4"-4.1" round pole	
AD <sup>3</sup> Universal Arm for 4.2"-5.3" round pole	
AD <sup>4</sup> Universal Arm for 5.5"-5.9" round pole	
AD <sup>5</sup> Universal Arm for 6.0"-6.5" round pole	

**HOUSING SHIELD ACCESSORIES**  
 HSS/EVP-L/90-90/XXX 90° shield front or back  
 HSS/EVP-L/180-90/XXX 90° shield front or right  
 HSS/EVP-L/270-90/XXX 270° shield front or back  
 HSS/EVP-L/270-180/XXX 270° shield front or right  
 HSS/EVP-L/360/XXX Full shield

**MOUNTING ACCESSORIES**  
 VPL-AD-RP3 2.4"-4.1" Round Pole Adapter for AD arm  
 VPL-AD-RP4 4.2"-5.3" Round Pole Adapter for AD arm  
 VPL-AD-RP5 5.5"-5.9" Round Pole Adapter for AD arm  
 VPL-AD-RP6 6.0"-6.5" Round Pole Adapter for AD arm

**PROFESSIONAL SITE-SYNC ORDERING INFORMATION:** When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate site-side information must be completed. This data includes Project Location, Site Information, and Operating Schedule. For more detailed information please visit [www.hubbell.com/controls](http://www.hubbell.com/controls) or contact Hubbell Lighting technical support at (800) 345-4028.

SiteSync fixtures with Hubbell control (SWP) require the mounting height of the fixture for selection of the lens.

Examples: VPL-L365-125/4K7/3000K/300/300P  
 VPL-L365-125/4K7/3000K/300/300P/40P  
 SiteSync only  
 SiteSync with Hubbell Control

Catalog Number	Description	HCS System
RODFM-1810-0W	On-fixture Module (7-pin, On / Off / Dim, Daylight Sensor with HUBBELL Radio and Bluetooth® Radio, 120-480VAC)	HX Distributed Intelligence™
WR-RME-L	On-fixture Module (7-pin or 5-pin, On / Off / Dim, Daylight Sensor with w/SCAPE® Lighting Control 110-480VAC)	w/SCAPE™ Lighting Control



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PERFORMANCE DATA		5K (5000K nominal, 70 CRI)												4K (4000K nominal, 70 CRI)												3K (3000K nominal, 70 CRI)											
# LED'S	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	LUMENS				LPW*				U G				LUMENS				LPW*				U G													
				FR	B	U	G	FR	B	U	G	FR	B	U	G	FR	B	U	G																		
64	625 mA	130W	FR	16220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2	2	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2			
			B	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2				
			U	16884	123	1	0	4	17386	128	1	0	4	15125	110	1	0	4	16627	122	2	0	3	17217	126	2	0	3	15066	109	2	0	3				
			G	16220	132	2	0	2	18783	137	2	0	2	16341	119	2	0	2	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2				
			4W	16227	122	2	0	3	17217	126	2	0	3	15066	109	2	0	3	16627	122	2	0	3	17217	126	2	0	3	15066	109	2	0	3				
			SOM	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2	17228	125	2	0	2	17781	128	2	0	2	15452	112	2	0	2				
			SR	17410	127	4	0	4	17948	130	4	0	4	15615	113	4	0	4	16749	127	4	0	4	17410	127	4	0	4	15615	113	4	0	4				
			SW	16498	120	4	0	2	17080	124	4	0	2	14730	108	4	0	2	16498	120	4	0	2	17080	124	4	0	2	14730	108	4	0	2				
			FR	22520	126	2	0	2	23948	132	2	0	2	20835	115	2	0	2	22520	126	2	0	2	23948	132	2	0	2	20835	115	2	0	2				
			B	21865	121	3	0	3	22645	123	3	0	3	19701	109	3	0	3	21865	121	3	0	3	22645	123	3	0	3	19701	109	3	0	3				
			U	22003	121	2	0	4	22863	123	2	0	4	19734	109	2	0	4	22003	121	2	0	4	22863	123	2	0	4	19734	109	2	0	4				
			G	21565	119	2	0	4	22182	122	2	0	4	19288	106	2	0	4	21565	119	2	0	4	22182	122	2	0	4	19288	106	2	0	4				
80	700 mA	180W	FR	21418	118	2	0	4	22079	122	2	0	4	19200	106	2	0	4	21418	118	2	0	4	22079	122	2	0	4	19200	106	2	0	4				
			B	22003	121	2	0	4	22688	123	2	0	4	19734	109	2	0	4	22003	121	2	0	4	22688	123	2	0	4	19734	109	2	0	4				
			U	22079	122	4	0	1	23689	131	4	0	1	20810	114	4	0	1	22079	122	4	0	1	23689	131	4	0	1	20810	114	4	0	1				
			G	22182	122	4	0	4	22884	123	4	0	4	19909	110	4	0	4	22182	122	4	0	4	22884	123	4	0	4	19909	110	4	0	4				
			4W	21035	118	5	0	3	21686	120	5	0	3	18892	104	4	0	3	21035	118	5	0	3	21686	120	5	0	3	18892	104	4	0	3				
			SOM	22749	121	2	0	2	23111	125	2	0	2	20478	108	2	0	2	22749	121	2	0	2	23111	125	2	0	2	20478	108	2	0	2				
			SR	22182	122	4	0	4	22884	123	4	0	4	19909	110	4	0	4	22182	122	4	0	4	22884	123	4	0	4	19909	110	4	0	4				
			SW	21035	118	5	0	3	21686	120	5	0	3	18892	104	4	0	3	21035	118	5	0	3	21686	120	5	0	3	18892	104	4	0	3				
			FR	27249	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2	27249	121	2	0	2	28711	125	2	0	2	24978	108	2	0	2				
			B	26334	114	3	0	3	27148	118	3	0	3	23620	102	3	0	3	26334	114	3	0	3	27148	118	3	0	3	23620	102	3	0	3				
			U	26378	114	3	0	4	27194	118	3	0	4	23620	102	3	0	4	26378	114	3	0	4	27194	118	3	0	4	23620	102	3	0	4				
			G	26977	112	2	0	4	26575	115	2	0	4	23120	100	2	0	4	26977	112	2	0	4	26575	115	2	0	4	23120	100	2	0	4				
96	700 mA	220W	FR	26436	121	3	0	4	27220	123	3	0	4	23681	103	3	0	4	26436	121	3	0	4	27220	123	3	0	4	23681	103	3	0	4				
			B	27021	119	4	0	3	28000	124	4	0	3	24154	106	2	0	4	27021	119	4	0	3	28000	124	4	0	3	24154	106	2	0	4				
			U	27190	118	3	0	4	26484	122	3	0	4	23000	101	3	0	4	27190	118	3	0	4	26484	122	3	0	4	23000	101	3	0	4				
			G	26436	121	3	0	4	27220	123	3	0	4	23681	103	3	0	4	26436	121	3	0	4	27220	123	3	0	4	23681	103	3	0	4				
			4W	27579	122	5	0	1	28427	131	5	0	1	24732	114	5	0	1	27579	122	5	0	1	28427	131	5	0	1	24732	114	5	0	1				
			SOM	28687	122	5	0	1	27480	126	5	0	1	23983	110	4	0	1	28687	122	5	0	1	27480	126	5	0	1	23983	110	4	0	1				
			SR	28242	116	5	0	3	28023	120	5	0	3	23640	104	5	0	3	28242	116	5	0	3	28023	120	5	0	3	23640	104	5	0	3				
			SW	25242	116	5	0	3	25633	118	5	0	3	22600	102	3	0	3	25242	116	5	0	3	25633	118	5	0	3	22600	102	3	0	3				
			FR	33419	121	3	0	2	34453	122	3	0	2	29924	102	2	0	2	33419	121	3	0	2	34453	122	3	0	2	29924	102	2	0	2				
			B	31600	114	3	0	4	32577	118	3	0	4	28242																							

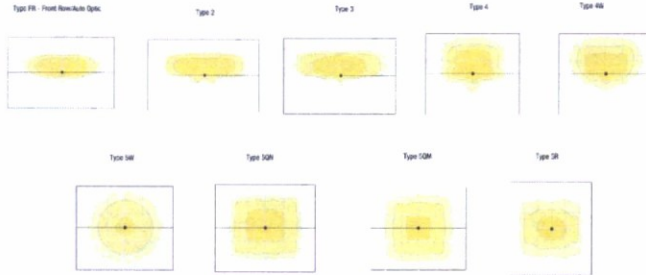
ACCORDANCE WITH SEC. 16.02.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING FIELD (TABLE 16.02.A.2 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE REGULATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 16.02.A.2 OF THE ZONING ORDINANCE)

#### PHOTOMETRICS



#### ELECTRICAL DATA

# OF LEADS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (W)	CURRENT (Amps)
64	1	625 mA	122	135	1.8
		700 mA	130	135	1.8
		875 mA	135	135	1.8
80	2	700 mA	277	180	2.4
		875 mA	282	180	2.4
		1050 mA	287	180	2.4
80	2	875 mA	347	235	3.2
		1050 mA	352	235	3.2
		1225 mA	357	235	3.2
96	2	700 mA	417	220	3.0
		875 mA	422	220	3.0
		1050 mA	427	220	3.0
96	2	875 mA	497	380	5.1
		1050 mA	502	380	5.1
		1225 mA	507	380	5.1
96	2	1000 mA	517	315	4.3
		1175 mA	522	315	4.3
		1225 mA	527	315	4.3
96	2	1225 mA	647	395	5.3
		1400 mA	652	395	5.3
		1475 mA	657	395	5.3

#### PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP	0	25,000	50,000	60,000	100,000	Calculated L70 (HOURS)
25°C / 77°C	1	0.98	0.97	0.97	0.96	>377,000

Based on IESNA TM-21-11  
Data references extrapolated performance projections for the 700lm base mode in a 25°C ambient, based on 10,000 hours of L70 testing per IESNA test set.

#### DRILL PATTERN

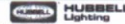


#### EPA

Config	EPA	Config	EPA
1	1.2	3 @ 120°	3.0
2 @ 90°	1.9	3 @ 90°	3.1
2 @ 180°	2.4	4 @ 90°	3.8



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#### TENON TOP POLE BRACKET ACCESSORIES (Order Separately)

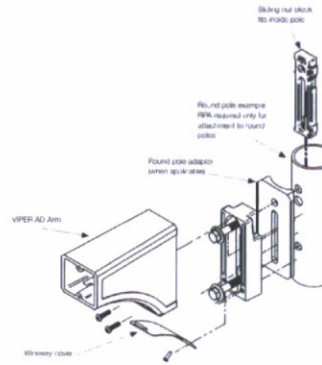
Accessories Catalog Number	Description
RETAVP-XX	Square tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Round tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
RETAVP-XX	Hexagonal tenon adapter (4 at 90°) for A - Rectangular Arm mounting option only
SETAXX	Square tenon adapter (4 at 90°) for AD - Universal Arm mounting option only
RETAXX	Round tenon adapter (4 at 90°) for AD3 - Universal Arm mounting option only
TETAXX	Hexagonal tenon adapter (2 at 120°) for AD - Universal Arm mounting option only

#### HOUSE SIDE SHIELD FIELD INSTALL ACCESSORIES



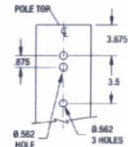
HSS/EVP-L/90-FB/XXX 90° shield front or back (2 shields shown)	HSS/EVP-L/90-LR/XXX 90° shield left or right (1 shield shown in left orientation)	HSS/EVP-L/270-FB/XXX 270° shield front or back (1 shield shown in back orientation)	HSS/EVP-L/270-LR/XXX 270° shield left or right (1 shield shown in right orientation)	HSS/EVP-L/360/XXX Full shield (1 shield shown)
--	---	---	--	--

#### AD ARM MOUNTING INSTRUCTIONS

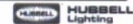


#### DECORATIVE ARM (AD)

Compatible with pole drill pattern S2



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SW2 AIRSIDE STAGING AREA WALL FIXT. 4 OF 5  
SCALE: NOT TO SCALE

SW2 AIRSIDE STAGING AREA WALL FIXT. 5 OF 5  
SCALE: NOT TO SCALE

ACCORDANCE WITH SEC. 1602.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING FIELD (TABLE 1602.A2 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 1602.A2 OF THE ZONING ORDINANCE).

# Seem<sup>®</sup> 2

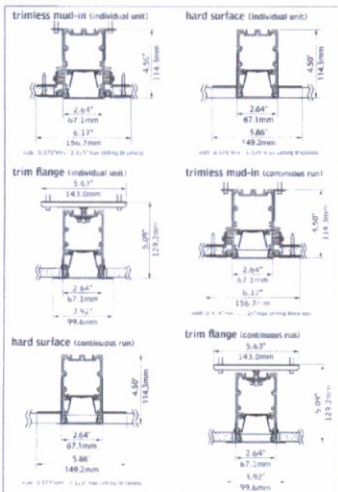
LED - WET LOCATION



TYPE SC



### DIMENSIONAL DATA

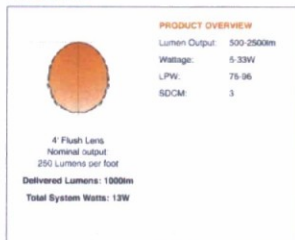


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### FEATURES

Narrow extruded aluminum 2.5" aperture recessed slot LED suitable for wet location.  
 Integrates with cabling for a clean, unobtrusive aesthetic.  
 Individual units and continuous runs in 1' increments.  
 Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.  
 LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

### PERFORMANCE



### SPECIFICATIONS

**LED System**  
 Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to promote a uniform appearance. Available in 3000K, 3500K, 4000K, with CRI>80. 35DCM LED modules and drivers are rotatable from drive.

**Construction**  
 One piece extruded aluminum housing, 20 Ga. steel end caps. Housing for new construction applications is 2.5" high weight 5.1 lbs. 3" unit weight 7.6 lbs. 4" unit weight 10.1 lbs. 5" unit weight 12.9 lbs.

**Optic**  
 Reflectors fabricated of 20 Ga. steel finished in High Reflectance White powder coat. Extruded acrylic lens .07" thick with laser finish - up to 18' from fixture.  
 C00 - High acrylic lens material shield included for sun block runs.

**Electrical**  
 Luminaires are pre-wired with factory installed branch circuit wiring and over molded quick connects. Standard 120-277V constant current driver includes 0-10V analog dimming Power Factor > .9.

**Emergency Battery**  
 Output - 10 watts for 90 minutes. Maximum mounting height: 17.9ft.

**Labels**  
 UL and cUL wet listed for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0 C.

**Finish**  
 Polyester powder coat applied over a multi-stage pre-treatment.

**Lumen Maintenance**  
 Reported: L70 at 46,000 hours Calculated: L70 at 270,000 hours  
 L90 at 481,000 hours L90 at 23,000 hours  
 Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

**Reliability**  
 At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

**Warranty**  
 LED system tested for operation in ambient environments up to 25°C. 5-year limited warranty.

### 4 PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Rated System Watts	LPW
Flush Lens	125LF	500	5	96
	250LF	1000	13	80
	375LF	1500	19	78
	625LF	2500	33	76

### ORDERING

Luminaire Series	Shielding	Flush Lens	Color Temperature	Circuit	Voltage	Control System & Dimming Level	Trim Flange	Mud-In	Factory Options
Seem 2 LED Wet Location	FSMZLWL	FL	3000K, 3500K, 4000K, 42K	IC	UNV	UNV 120/277 Volt 0-10V - 1% Dimming 0-10V - 10% Dimming	Trim Flange Drywall Mud-In Trimless pre-set for 1/2" Drywall Mud-In Trimless pre-set for 5/8" Drywall Mud-In Trimless, set thickness in field Flange recessed, available in field Non-Drywall Hard Surface	Chicago Platinum Emergency Circuit Emergency Battery Pack 6" New York City Flex Whip Flex Whip	GP EC EM FVY FW WH R

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ACCORDANCE WITH SEC. 1602.01 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE DOWN TO BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

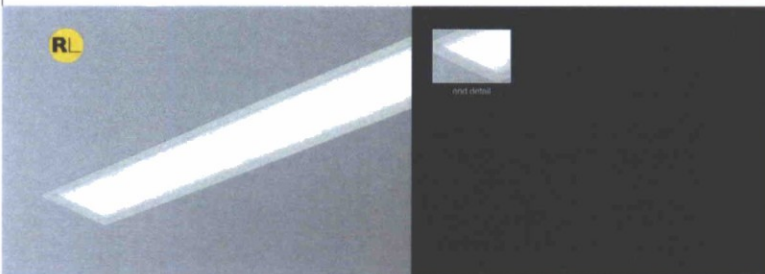
EXTERIOR LUMINAIRE THAT BE MOUNTED EIGHT FEET OR HIGHER, ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRE WITH TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1602.A.2 OF THE ZONING ORDINANCE).

LUMINAIRE WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD TO COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUTOFF. (TABLE 1602.A.2 OF THE ZONING ORDINANCE).

## Seem® 2

LED - WET LOCATION



### DIMENSIONAL DATA



FOCAL POINT, 1147 S. PULASKI, ST. LOUIS, MO 63104 | TEL: 314.241.4444 | WWW.FOCALPOINT.COM | © 2014 FOCAL POINT, ALL RIGHTS RESERVED

TYPE SD



### SPECIFICATIONS

**Luminaire Series**  
**LED System**  
 Proprietary linear LED module incorporates premium LEDs on a robust platform to achieve excellent thermal management. LEDs are placed to provide a uniform appearance. Available in 3000K, 3500K, 4000K with CRI>90. SDCM LED modules and drivers are retraceable from factory.

**Construction**  
 One piece extruded aluminum housing, 20 Ga. steel end caps. Housing for new construction applications. 7' unit weight: 3.1 lbs. 3' unit weight: 7.6 lbs. 4' unit weight: 10.1 lbs. 5' unit weight: 12.6 lbs.

**Optic**  
 Reflectors fabricated of 22 Ga. steel finished in High Reflection White powder coat. Extruded acrylic lens, .07" thick w/9" solid frame, up to 8' continuous. 1/32" thick acrylic lens water shield included for continuous runs.

**Electrical**  
 Luminaires are pre-wired with factory installed branch circuit wiring and over-molded quick connects. Standard "20-277V" constant current driver includes 0-120V analog dimming. Power factor > .9.

**Emergency Battery**  
 Output - 10 watts for 90 minutes. Maximum mounting height: 17 ft.

**Labels**  
 UL and cUL wet listed for recessed ceiling applications in indoor and outdoor locations. Lutron Drivers not recommended for outdoor environments below 0°C.

**Finish**  
 Polyester powder coat applied over a multi-stage pre-treatment.

**Lumen Maintenance**  
 Reported: L70 at >=1,000 Hours. Calculated: L70 at 270,000 hours.  
 L80 at >=1,000 Hours. L90 at 79,000 Hours.  
 Derived from EPA TM-21 data, based on typical conditions. Normal factory warranty data.

**Reliability**  
 At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Durability, as a reliability data.

**Warranty**  
 1 FFO system, used for operation in ambient environments, up to 26°C. 5-year limited warranty.

### PERFORMANCE CHART

Shielding	Lumens per Foot	Delivered Lumens	Rated System Watts	LPW
125LF	125LF	300	3	96
Flush Lens	250LF	1000	13	80
	375LF	1500	19	79
	625LF	2500	33	76

### FEATURES

Narrow extruded aluminum 2.5" aperture recessed slot LED suitable for wet location.  
 Intelligently designed for a clean, unobtrusive aesthetic.  
 Individual units and continuous runs in 1' increments.  
 Frosted acrylic lens provides uninterrupted illumination, without pixels or shadows.  
 LED position and lens material optimized to provide the perfect blend of high performance and visual comfort.

### PERFORMANCE



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### ORDERING

Luminaire Series	Shielding	FSM2LWL
Seem 2 LED Wet Location	FSM2LWL	FL
Flush Basin Lens	FL	FL
Lumen Output		
125 Lumens per foot	125LF	
250 Lumens per foot	250LF	
375 Lumens per foot	375LF	
625 Lumens per foot	625LF	
Color Temperature		
3000K	30K	
3500K	35K	
4000K	40K	
Circuit		IC
Single Circuit	1C	
Voltage		UNV
UNV 120/277 Volt	UNV	
Control System & Dimming Level		
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming	L10	
Lutron A-Series 1% EcoSystem Digital	L3D	
Ceiling Configuration		
Trim Flange Drywall	TF	
Mud-in Trimless	XF1	
pre-set for 1/2" Drywall	XF2	
Mud-in Trimless	XF3	
pre-set for 5/8" Drywall	XF4	
Mud-in Trimless, set thickness in field	XFN	
Emergency Battery Pack	EM	
Non-Drywall Hard Surface	XFF	
Factory Options		
Chicago Plenum	CP	
Emergency Circuit	EC	
Emergency Battery Pack	EM	
6" New York City Flex Whip	FNW	
8" Flex Whip	FW	
Finish		WH
Matte White Housing	WH	
Luminaire Length		11
Specify luminaire length in 1' increments		

SD EXTERIOR BUILDING FIXTURE 1 OF 2  
 SCALE: NOT TO SCALE

SD EXTERIOR BUILDING FIXTURE 2 OF 2  
 SCALE: NOT TO SCALE

LAISON Associates Architects, Inc.  
 3807 North 24th Street, Suite 100

STAMPER HANGAR  
 16061 NORTH 81ST STREET  
 SCOTTSDALE, AZ

June 15, 2014  
 EXPIRES  
 6/30/2014  
 DATE  
 06-06-14

PROJ  
 NUMB  
 17-021

SHEET  
 NUMB  
 5P

49-DR

ACCORDANCE WITH SEC. 100 OF THE ZONING ORDINANCE THE LIGHT FIXTURE SHALL BE DOWN TO BE DIRECTED UPWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR LOWER ABOVE THE ADJACENT WALKWAY SHALL BE DIRECTED DOWNWARD.

EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING CONTROL (TABLE 7.602.A.2 OF THE ZONING ORDINANCE).

LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE REQUIREMENTS OF THE ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUT-OFF (TABLE 7.602.A.2 OF THE ZONING ORDINANCE).

## ARCHITECTURAL EGRESS

Weather Resistant

AEL Full Cut-Off LED



WALL MOUNT LED

Fixture Type

Color

Light Beam

Dimmer

Approved By

Ordering Number: - - - - DP - -

### SPECIFICATIONS

- Description** The Architectural Egress Luminaire combines a unique, patented design shaped with high performance, full cut-off optics to achieve completely unobtrusive illumination of a space or path of egress. When mounted over a doorway, the fixture is perceived as an element of the building structure and, additionally, provides water protection in the form of a drip cap over the doorway. Multiple lengths are available to match a given door opening and our unique quick mount system facilitates installation and maintenance.
- Housing** Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat.
- Wall Mount** Marine grade heat treated extruded aluminum. Chemically primed and finished with robotically applied polyester powder coat. Designed to provide quick mounting to housing and secured with (2) captive stainless steel TORX® head screws.
- Lens Frame** Marine grade heat treated extruded aluminum, clear anodized. Secured to fixture via integral concealed hinge and (3) captive stainless steel TORX® head screws.
- Lens** UV stabilized diffused extruded polycarbonate.
- End Caps** Die-cast marine grade aluminum continuously welded to housing. All welds ground smooth.
- Reflector** Electrostatically brightened anodized aluminum PVD coated and absolutely color-free of iridescence. Shaped to provide full cutoff, LED point dispersion and maximum efficiency.
- Drivers** Constant current drivers at 350mA. High output version utilizes 700mA.
- LED** Samsung LM561B+ Series @ 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L70 projected life of 130,000 hours at 50°C. Tested in accordance with LM-80. Ten year warranty on LED boards against operational defects.
- Gaskets** Closed cell self-adhesive neoprene to provide watertight seal between fixture and wall and between fixture and lens frame.
- UL Listing** U.L., C.U.L., Wet standard.
- Lifetime Warranty** Luminaire LED Incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation.



	A	B	C
AEL 12	20.79	5.40	3.60
AEL 24	32.04	5.40	3.60
AEL 36	43.29	5.40	3.60
AEL 48	54.55	5.40	3.60
AEL 72	78.75	5.40	3.60



**Luminaire LED**  
www.luminaireled.net

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Luminaire LED Incorporated products are manufactured in the USA with components purchased from USA suppliers, and meet the Buy American requirements under the AFRA. Contents of specification sheets is subject to change, please consult our website for current product information.

Rev: 03/18

EM EXTERIOR EGRESS FIXTURE 1 OF 6  
SCALE: NOT TO SCALE

## ARCHITECTURAL EGRESS

Weather Resistant

AEL Full Cut-Off LED



SERIES	LED	CCT	VOLTS	LENS	COLOR	OPTIONS	TX/SD
AEL 12	12" - 10W	3000K	120-277	DP	BKH	<input type="checkbox"/> DIM <input type="checkbox"/> EMBDA	TX/SD
AEL 24	24" - 10W	3500K	947		BZH	<input type="checkbox"/> A/B <input type="checkbox"/> EMB310	
AEL 36	24" - 20W	4000K			SVH	<input type="checkbox"/> 2B <input type="checkbox"/> EMB310ST	
AEL 48	36" - 15W	5000K			WOP	<input type="checkbox"/> PC <input type="checkbox"/> EMB20R	
AEL 72	36" - 30W				PCP	<input type="checkbox"/> GLR <input type="checkbox"/> EMB125R	
	48" - 20W				CUST	<input type="checkbox"/> OCC <input type="checkbox"/> EMB250R	
	48" - 35W					<input type="checkbox"/> OCC50 <input type="checkbox"/> ST/SC	
	72" - 30W						
	72" - 55W						

- LENS** DP = Diffused Polycarbonate.
- COLORS** BKH = Black (Hammer-tone) BZH = Bronze (Hammer-tone) SVH = Silver (Hammer-tone) WOP = White (Reduced White) PCP = Black (Prime Coat Particles) CUST = Custom Color (Consult Factory)
- DIM** 0-10V dimming driver. 10% at lowest level. (N/A with AEL12)
- A/B** Aluminum surface back box. Finished with polyester powder coat to match the fixture.
- PC** Photoelectric switch.
- 2B** (2) LED drivers for independent LED board operation. (N/A with AEL12, N/A with the OCC option)
- GLR** Fuse and fuse holder.
- OCC** Passive infrared sensor mounted in machine hole in end cap. Maximum coverage of 10' radius from 8' height.
- OCC50** Passive infrared sensor mounted in machine hole in end cap. 50% of LED's constantly on and 50% sensed. (N/A with AEL12)
- EMB310** 1000 lumen self-contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Not available in 347V. (Available for AEL 36, AEL48, and AEL72 lengths only)
- EMB310ST** 1000 lumen self-testing, self-contained, 90 minute emergency battery pack. 0°C (32°F) to 55°C (131°F). Not available in 347V. (Available for AEL 36, AEL48, and AEL72 lengths only)
- EMB20R** Remote mounted micro inverter that will operate a 25W maximum load for 90 minutes. 0°C (32°F) to 45°C (113°F).
- EMB125R** Remote inverter that will operate a 125W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F). Not available in 347V.
- EMB250R** Remote inverter that will operate a 250W maximum load for 90 minutes. 20°C (68°F) to 30°C (86°F). Not available in 347V.
- EMBDA** Two drivers and two emergency battery packs self-contained within fixture for independent light engine operation. Each battery pack will operate each light engine for a minimum of 90 minutes. Not available in 347V. (Available in the 72" length only)
- ST/SC** Slotted screws instead of TORX® head.
- TX/SD** TORX® head bit.

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Rev: 03/18

EM EXTERIOR EGRESS FIXTURE 2 OF 6  
SCALE: NOT TO SCALE

IN ACCORDANCE WITH SEC. 22.02 OF THE ZONING ORDINANCE, ALL EXTERIOR LIGHT FIXTURES SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

ALL EXTERIOR LUMINAIRES THAT ARE MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

ALL EXTERIOR LUMINAIRES WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 16.02.A.2 OF THE ZONING ORDINANCE).

ALL EXTERIOR LUMINAIRES WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE MINIMATING ENGINEERING SOCIETY OF NORTH AMERICA (I.E.S.) REQUIREMENTS FOR FULL CUT-OFF. (TABLE 16.02.A.2 OF THE ZONING ORDINANCE)

## ARCHITECTURAL EGRESS

Variety Resistant

AEL - Full Cut Off - LED

Model	Watts	Input Watts	Delivered Lumens			
			3000K	3500K	4000K	5000K
AEL 12	10W	10.8W	747	760	784	807
AEL 24	10W	9.4W	832	847	873	899
AEL 24	20W	17.6W	1557	1585	1634	1682
AEL 36	15W	14.9W	1248	1271	1310	1348
AEL 36	30W	26.3W	2995	3049	3143	3237
AEL 48	20W	18.8W	1935	1969	2030	2090
AEL 48	35W	35.2W	3616	3682	3796	3909
AEL 72	30W	27.9W	3162	3217	3317	3417
AEL 72	55W	52.2W	5911	6017	6203	6389

MODEL AEL12-10W-4000K

Delivered Lumens: 726 Lumens



MODEL AEL36-15W-4000K

Delivered Lumens: 1213 Lumens



IES FILE: AEL12-10W-4000K

Total Power: 10.8W

Testing was performed in accordance with IES LM-79-08

Bug Rating: 80/000

Zone	Lumens	% Lamps
0 - 30	153	21.1
0 - 40	287	39.5
0 - 60	585	80.6
60 - 90	726	100.0
0 - 90	439	60.5
90 - 180	0	0.0
0 - 180	726	100.0



IES FILE: AEL36-15W-4000K

Total Power: 14.9W

Testing was performed in accordance with IES LM-79-08

Bug Rating: 80/100

Zone	Lumens	% Lamps
0 - 30	381	31.4
0 - 40	635	52.3
0 - 60	1063	87.7
60 - 90	150	12.3
0 - 90	1213	100.0
90 - 180	0	0.0
0 - 180	1213	100.0



## ARCHITECTURAL EGRESS

Variety Resistant

AEL - Full Cut Off - LED

MODEL AEL36-30W-4000K

Delivered Lumens: 2911 Lumens



IES FILE: AEL36-30W-4000K

Total Power: 26.6W

Testing was performed in accordance with IES LM-79-08

Bug Rating: 80/000

Zone	Lumens	% Lamps
0 - 30	754	25.9
0 - 40	1308	44.9
0 - 60	2417	83.0
60 - 90	494	17.0
0 - 90	2911	100.0
90 - 180	0	0.0
0 - 180	2911	100.0



MODEL AEL72-30W-4000K

Delivered Lumens: 3072 Lumens



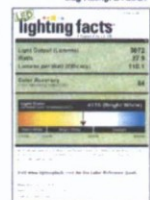
IES FILE: AEL72-30W-4000K

Total Power: 27.0W

Testing was performed in accordance with IES LM-79-08

Bug Rating: 81/001

Zone	Lumens	% Lamps
0 - 30	771	25.1
0 - 40	1353	44.1
0 - 60	2529	82.3
60 - 90	3072	100.0
0 - 90	1718	55.9
90 - 180	542	17.7
0 - 180	3072	100.0



**Luminaire Led**  
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EM EXTERIOR EGRESS FIXTURE 3 OF 6  
SCALE: NOT TO SCALE

EM EXTERIOR EGRESS FIXTURE 4 OF 6  
SCALE: NOT TO SCALE

ACCORDANCE WITH SEC. 11.02 OF THE ZONING ORDINANCE, THE LIGHT FIXTURE SHALL BE DIRECTED DOWNWARD, OR HAVE THE LIGHT SOURCE HOUSED IN A WAY THAT THE LIGHT TRESPASS IS CUT OFF OR DIRECT IT DOWNWARD.

EXTERIOR LUMINAIRE THAT IS MOUNTED EIGHT FEET OR HIGHER ABOVE THE ADJACENT FINISH GRADE SHALL BE DIRECTED DOWNWARD.

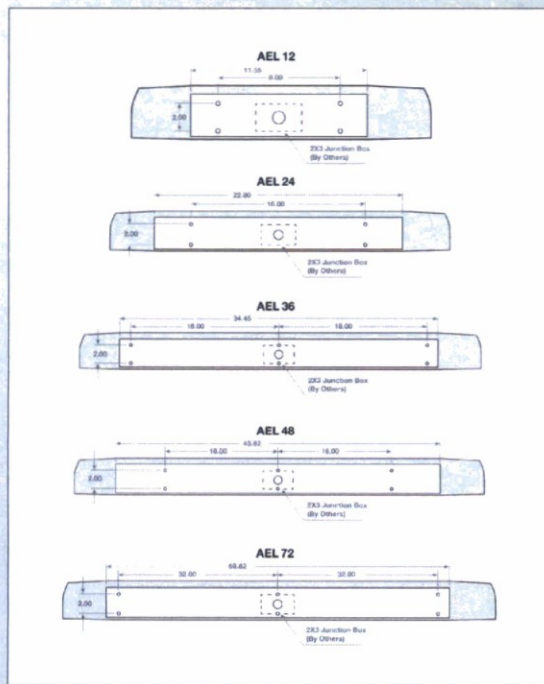
EXTERIOR LUMINAIRE WITH A TOTAL INITIAL LUMEN OUTPUT OF GREATER THAN 1600 SHALL HAVE AN INTEGRAL LIGHTING SHIELD (TABLE 1.602.A.2 OF THE ZONING ORDINANCE).

LUMINAIRE WITH A TOTAL LUMEN OUTPUT OF GREATER THAN 3050 SHALL BE DIRECTED DOWNWARD AND COMPLY WITH THE REGULATIONS OF THE ILLINOIS ILLUMINATING ENGINEERING SOCIETY OF NORTH AMERICA (IESNA) REQUIREMENTS FOR FULL CUT-OFF. (TABLE 1.602.A.2 OF THE ZONING ORDINANCE)

## ARCHITECTURAL EGRESS

Vandal Resistant

Abt. Full Cut Off, LED



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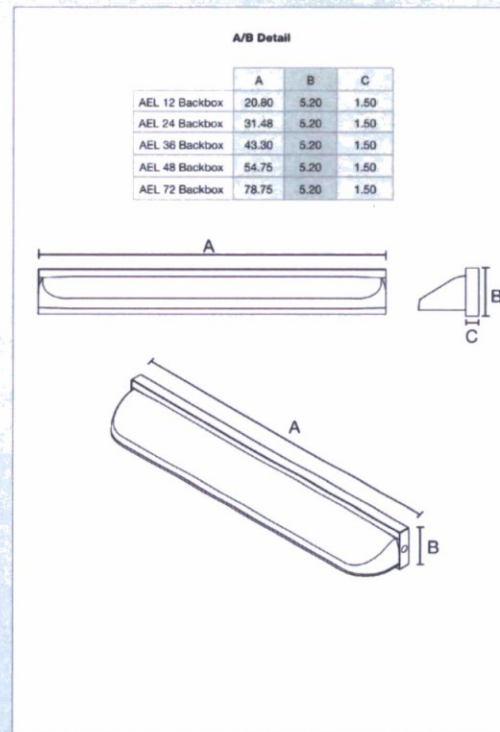
Rev: 03/18+

**EM** EXTERIOR EGRESS FIXTURE 5 OF 6  
SCALE: NOT TO SCALE

## ARCHITECTURAL EGRESS

Vandal Resistant

Abt. Full Cut Off, LED



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Rev: 03/18+

**EM** EXTERIOR EGRESS FIXTURE 6 OF 6  
SCALE: NOT TO SCALE