



38004  
03SEP19  
City of Mesa

**Project Title:** AIRGATE CENTER  
Attn: Design Review Board; Planning

#### PROJECT NARRATIVE:

Airgate Center at Phoenix-Mesa Gateway proposes a new multi-tenant 48,400+/- s.f. Industrial / Showroom Building. The design character will maintain elements of the existing first phase Buildings 1 and 2.

"Showroom uses" are included as a potential occupancy type as a placeholder pending marketing. We expect uses such as flooring, cabinets, furniture, paint etc. to be possible tenants. They may include product display and demonstration of various products & supplies".

The subject Airgate Project is located in the Airport District of the Mesa Gateway Strategic Development Plan.

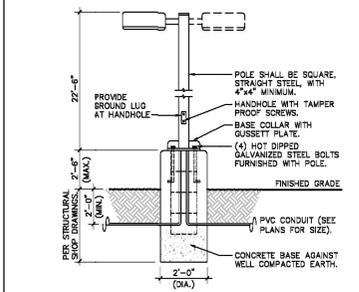
This district refers to the area encompassing the Phoenix-Mesa Gateway Airport, and the area immediately outside the airport's future main terminal. This Project also blends with the existing industrial developments east of the property along Ray Road with a higher end aesthetic. The Airgate Project blends with the District's goal for a mixed-use district centered around airport-related uses and also respects the Airport FAA requirements for uses within flight paths. This Project will create an opportunity to combine showroom-retail and light manufacturing uses as a transitional boundary with the Airport. The Airport District area will be a hub of visitor activity and create the first and last impression visitors have of the community, thus, the Airgate Project therefore provides a very high-quality image.

The parking shown on the Site plan exceeds the City of Mesa maximum allowed. The owner will be submitting a request for an Administrative Use Permit to allow the added parking through a separate submittal.

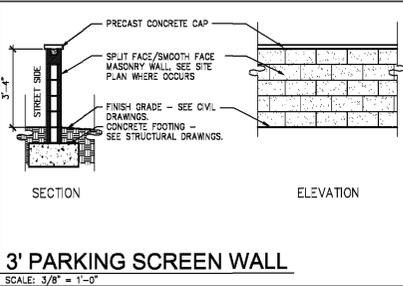
Wesley R. Balmer AIA; President Balmer  
Architectural Group, Inc.



**POLE MOUNTED FIXTURE DETAIL**



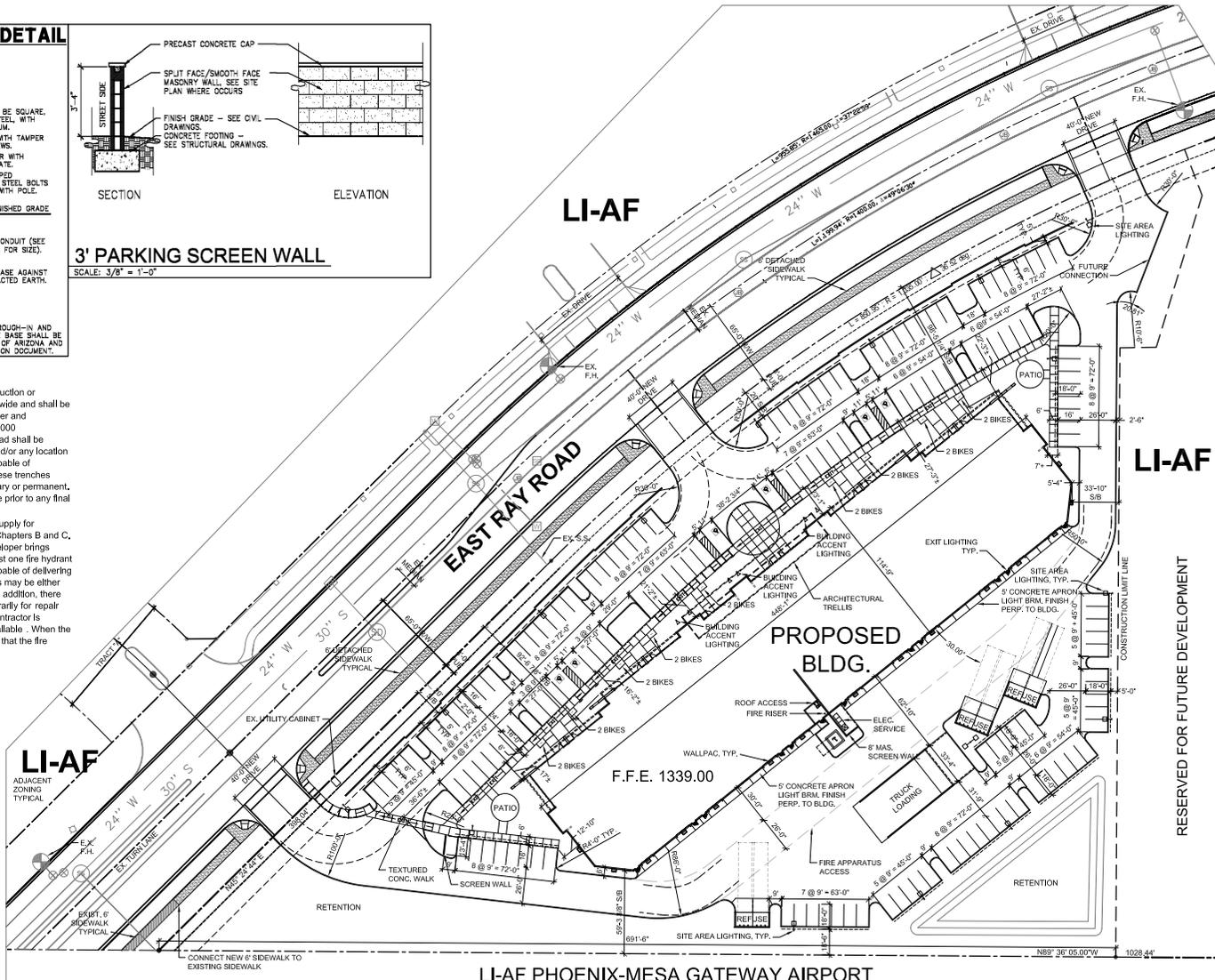
THE POLE CONCRETE BASE DETAIL IS SHOWN FOR ELECTRICAL ROUGH-IN AND SHALL NOT BE USED FOR THE ACTUAL BASE CONSTRUCTION. POLE BASE SHALL BE DESIGNED BY A REGISTERED STRUCTURAL ENGINEER OF THE STATE OF ARIZONA AND CONSTRUCTED PER STRUCTURAL ENGINEER'S SEALED CONSTRUCTION DOCUMENT.



**3' PARKING SCREEN WALL**  
SCALE: 3/8" = 1'-0"

**MESA FIRE DEPT. NOTES:**

1. Required fire apparatus access road during construction or demolition. The access road shall be a minimum of 20 feet wide and shall be an all-weather driving surface, graded to drain standing water and engineered to bear the imposed loads of fire apparatus (74,000 lbs./24,000lbs per axle) when roads are wet. The access road shall be extended to within 200 feet of any combustible materials and/or any location on the job site. All open trenches shall have steel plates capable of maintaining the integrity of the access road design when these trenches cross an access road. These access roads may be temporary or permanent. Permanent access per the Mesa Fire Code shall be in place prior to any final inspection or certificate of occupancy.
2. Water supply for fire protection. Approved water supply for construction site shall meet the requirements of Appendix Chapters B and C. The minimum fire flow requirement when contractor or developer brings combustible materials on site is 1,500 gpm at 25 psi. At least one fire hydrant shall be within 500 feet of any combustible material and capable of delivering the minimum fire flow requirement. This hydrant or hydrants may be either temporary or permanent as the project schedule permits. In addition, there are times when hydrants and valves must be closed temporarily for repair work or construction of the water system. The developer/contractor is responsible for ensuring that the water supply is always available. When the work is complete, the developer/contractor shall make sure that the fire hydrants are active, and the valves are open.



LI-AF PHOENIX-MESA GATEWAY AIRPORT

**PROJECT DATA:**

ZONING: LI-AF - LIGHT INDUSTRIAL / AIRFIELD OVERLAY  
CASE NOS: DRB19-00521  
ZON19-00538  
ADM19-00650  
PROPOSED USES: 25% OFFICE/SHOWROOM  
35% MFG, 40% STORAGE  
B - F1 - S1  
II-B  
OCCUPANCY: 219,958 S.F. (5,0495 AC.)  
CONSTRUCTION TYPE: 279,059 S.F. (6,4063 AC.)  
NET SITE AREA: (GROSS & NET SITE AREAS ARE BASED ON PORTION OF PARCEL 1 UTILIZED FOR THIS PROJECT)  
GROSS BLDG AREA: 48,460 S.F.  
LOT COVERAGE: 48,460 / 219,958 = 22%  
GROSS FLOOR AREA: 48,312 S.F.  
(INCLUDES FIRE RISER ROOM)

AREA INCREASE:  
Section 506.3.3 Increase for Frontage:  
I = (F/P - .25)W / 30  
F = Perimeter Frontage = (south 440' + north 440' + west 120' + east 120') = 1120'  
P = Building Perimeter = 1120'  
W = 30 max allowed 506.3.2  
I = (1120/1120 - .25)30 / 30  
I = (1 - .25)30 / 30  
I = (0.75)30 / 30  
I = .75

Section 508.3 NON-SEPARATED OCCUPANCIES + Frontage;  
EQUATION 5.1, FOR MOST RESTRICTIVE OCCUPANCY (F1)  
Aa = At + (NS x F) = Allowable Area  
At = Tabular area per Table 506.2 = 48000 s.f. (F1)  
I = Increase factor for frontage (from calc above) = .75  
Aa = 48000 + (12000 x .75)  
Aa = 48000 + 9000  
Aa = 57000 S.F. (ALLOWABLE)

EXTERIOR WALL RATING:  
PER TABLE 602, FIRE SEPARATION DISTANCE IS <30" ON ALL SIDES THEREFORE FIRE RATING IS 0 (NOT RATED)

PARKING REQUIRED: 105 SPACES  
(SHELL INDUSTRIAL)  
25% @ 1375 = 12115 / 375 = 32 SPACES  
75% @ 1500 = 36345 / 500 = 73 SPACES

ACCESSIBLE SPACES: 151/200 = 6 SPACES  
PARKING PROVIDED: 156 SPACES  
STANDARD SPACES: 150  
ACCESSIBLE SPACES: 6  
(NOTE: ALL ACCESSIBLE SPACES ARE UNIVERSAL TYPE)

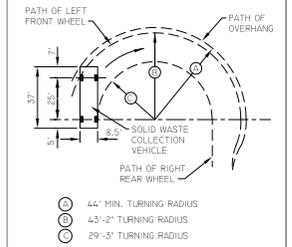
BICYCLE PARKING REQUIRED: 16  
110 CAR SPACES = 16  
156 CAR SPACES / 10 = 16  
BICYCLE PARKING PROVIDED: 18

OCCUPANT LOAD:  
25% BUSINESS @ 1:150 = 12115 / 150 = 81 PEOPLE  
75% INDUSTRIAL @ 1:100 = 36345 / 100 = 363 PEOPLE  
TOTAL: 444 PEOPLE  
EXITS REQUIRED: 2  
EXITS PROVIDED: 22

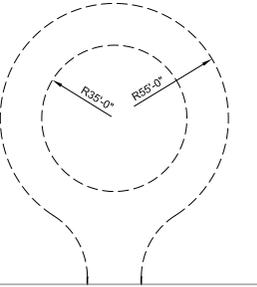
BUILDING HEIGHT:  
NATURAL MOUND GROUND ELEV.: 1336.80  
FINISHED FLOOR ELEV.: 1339.00  
TOTAL BUILDING HEIGHT: 1375.33 = 38.5'

**DEFINITIONS**  
GBA = GROSS BUILDING AREA, DRIP LINE OF ROOF, (EXTERIOR FACE OF EXTERIOR WALLS)  
GFA = GROSS FLOOR AREA, INSIDE FACE OF EXTERIOR WALLS.

APN: 304-30-038



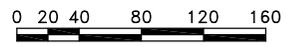
**MESA SOLID WASTE VEHICLE ACCESS: M-62.01**



**MESA FIRE LANE TURNING RADIUS: FPD 503.2.4**

**CITY VEHICLE ACCESS NOTES:**

THE TURNING RADIUS OF THE FIRE LANES IS LARGER THAN THE RADIUS FOR THE SOLID WASTE VEHICLES. THEREFORE ALL TURNING RADII HAVE BEEN DESIGNED FOR THE LARGER FIRE LANE ACCESS. SOLID WASTE VEHICLE ACCESS WILL FIT WITHIN THE FIRE TURNING RADIUS.



**SITE PLAN**

SCALE 1" = 40'  
**BLDG. SETBACKS; LI DISTRICT:**

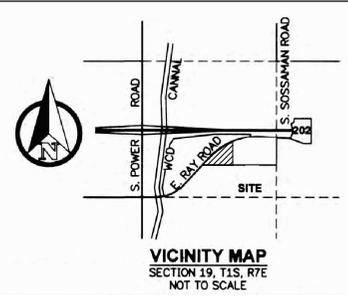
STREET SIDE: 20- FEET AS SHOWN; INTERIOR AND REAR ADJACENT TO LI DISTRICT SETBACK IS 0 (ZERO), THEREFORE NO SETBACKS ARE SHOWN ON THE INTERIOR PROPERTY LINES.

**EMERGENCY ACCESS:**  
EMERGENCY ACCESS IS PROVIDED THROUGHOUT THE SITE.

**ADA SITE ACCESS ROUTE:**  
ADA ACCESS ROUTE IS DESIGNATED BY THE FOLLOWING LINE TYPE: —EXIT— EXIT

**MESA BUILDING CODES**

- 2018 International Building Code (IBC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Residential Code (IRC)
- 2018 International Energy Conservation Code (IECC)
- 2018 International Fire Code (IFC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- 2018 International Swimming Pool and Spa Code (ISPS-C)
- 2017 National Electrical Code (NEC)
- ARIZONANS WITH DISABILITIES ACT, ADAAG A.N.S.I. A117.1 CURRENT EDITIONS WITH CITY OF MESA AMENDMENTS



**VICINITY MAP**  
SECTION 19, T1S, R7E  
NOT TO SCALE



**AIRGATE CENTER**  
**7353 E. RAY ROAD, MESA AZ.**  
**PRELIMINARY SITE PLAN**

**A-101**  
**38004**  
**06EP19**



**ADDITIONAL NOTES:**

THIS LANDSCAPE IS TO BE MAINTAINED ON A WEEKLY BASIS USING A NATURAL MAINTENANCE PROGRAM AND SHALL BE MAINTAINED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICE OF THE LANDSCAPE INDUSTRY.

ALL TREES AND SHRUBS LOCATED IN THE LINE OF SIGHT WILL BE MAINTAINED FOR A CLEAR AREA BETWEEN 3' TO 7'. THE LINE OF SITE IS OUT OF THE SCOPE OF WORK ON THIS PROJECT.

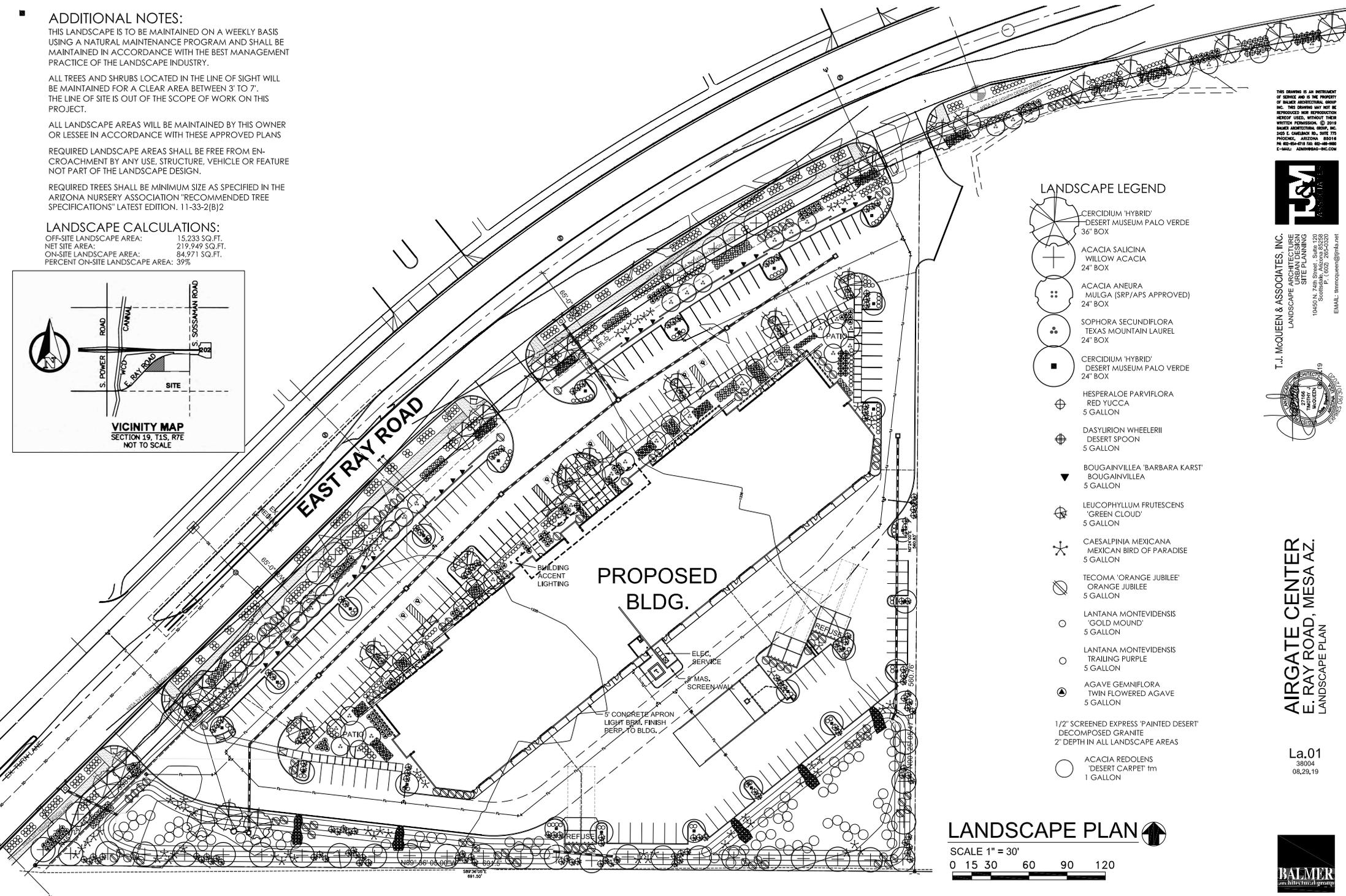
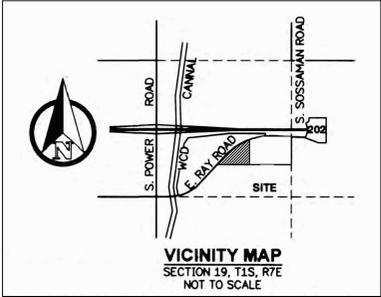
ALL LANDSCAPE AREAS WILL BE MAINTAINED BY THIS OWNER OR LESSEE IN ACCORDANCE WITH THESE APPROVED PLANS

REQUIRED LANDSCAPE AREAS SHALL BE FREE FROM ENCROACHMENT BY ANY USE, STRUCTURE, VEHICLE OR FEATURE NOT PART OF THE LANDSCAPE DESIGN.

REQUIRED TREES SHALL BE MINIMUM SIZE AS SPECIFIED IN THE ARIZONA NURSERY ASSOCIATION "RECOMMENDED TREE SPECIFICATIONS" LATEST EDITION, 11-33-2(B)2

**LANDSCAPE CALCULATIONS:**

OFF-SITE LANDSCAPE AREA: 15,233 SQ.FT.  
 NET SITE AREA: 219,949 SQ.FT.  
 ON-SITE LANDSCAPE AREA: 84,971 SQ.FT.  
 PERCENT ON-SITE LANDSCAPE AREA: 39%



**LANDSCAPE LEGEND**

- CERCIDIUM 'HYBRID'  
DESERT MUSEUM PALO VERDE  
36" BOX
  - ACACIA SALICINA  
WILLOW ACACIA  
24" BOX
  - ACACIA ANEURA  
MULGA (SRP/APS APPROVED)  
24" BOX
  - SOPHORA SECUNDIFLORA  
TEXAS MOUNTAIN LAUREL  
24" BOX
  - CERCIDIUM 'HYBRID'  
DESERT MUSEUM PALO VERDE  
24" BOX
  - HESPERALOE PARVIFLORA  
RED YUCCA  
5 GALLON
  - DASYLIRION WHEELERII  
DESERT SPOON  
5 GALLON
  - BOUGAINVILLEA 'BARBARA KARST'  
BOUGAINVILLEA  
5 GALLON
  - LEUCOPHYLLUM FRUTESCENS  
'GREEN CLOUD'  
5 GALLON
  - CAESALPINIA MEXICANA  
MEXICAN BIRD OF PARADISE  
5 GALLON
  - TECOMA 'ORANGE JUBILEE'  
ORANGE JUBILEE  
5 GALLON
  - LANTANA MONTEVIDENSIS  
'GOLD MOUND'  
5 GALLON
  - LANTANA MONTEVIDENSIS  
TRAILING PURPLE  
5 GALLON
  - AGAVE GEMINIFLORA  
TWIN FLOWERED AGAVE  
5 GALLON
  - ACACIA REDOLENS  
'DESERT CARPET' 1m  
1 GALLON
- 1/2" SCREENED EXPRESS 'PAINTED DESERT'  
DECOMPOSED GRANITE  
2" DEPTH IN ALL LANDSCAPE AREAS

THIS DRAWING IS AN INSTRUMENT OF SERVICE AND IS THE PROPERTY OF BALMER ARCHITECTURAL GROUP, INC. THIS DRAWING MAY NOT BE REPRODUCED OR RECONSTRUCTED WITHOUT WRITTEN PERMISSION. © 2019 BALMER ARCHITECTURAL GROUP, INC. 228 E. GARDNER BL., SUITE 701 PHOENIX, ARIZONA 85016 PH: 602-970-1100 FAX: 602-970-1100 E-MAIL: ADMIN@BALMER-INC.COM



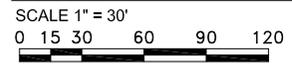
T.J. McQUEEN & ASSOCIATES, INC.  
 LANDSCAPE ARCHITECTURE  
 URBAN DESIGN  
 SITE PLANNING  
 10450 N. 74th Street, Suite 1201  
 Scottsdale, AZ 85260  
 P: 602.283.0320  
 EMAIL: timcqueen@tjma.net



**AIRGATE CENTER**  
 E. RAY ROAD, MESA AZ.  
 LANDSCAPE PLAN

La.01  
 38004  
 08.29.19

**LANDSCAPE PLAN**



THIS DRAWING IS AN INSTRUMENT OF SERVICE AND IS THE PROPERTY OF BALMER ARCHITECTURAL GROUP, INC. THIS DRAWING MAY NOT BE REPRODUCED OR REPRODUCTION HEREOF, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF BALMER ARCHITECTURAL GROUP, INC. 2425 E. CHAMBERS BL., SUITE 775 PHOENIX, ARIZONA 85016 PH: 602-954-8718 FAX: 602-488-9888 E-MAIL: ADMIN@BAG-INC.COM



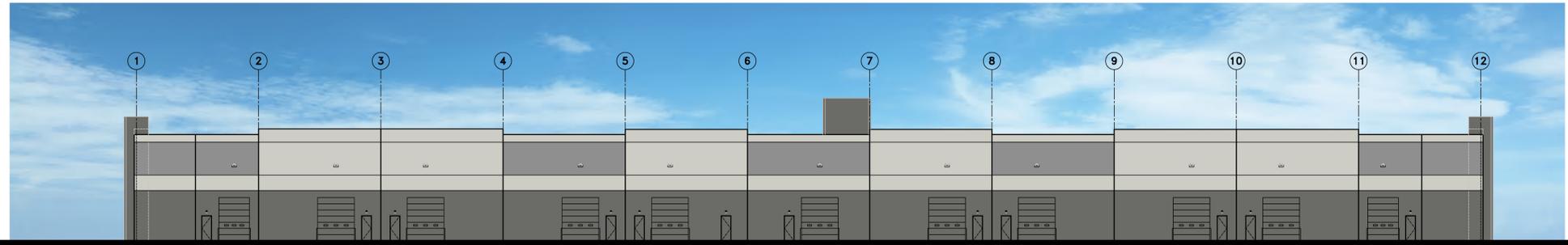
Exp. 3/31/20



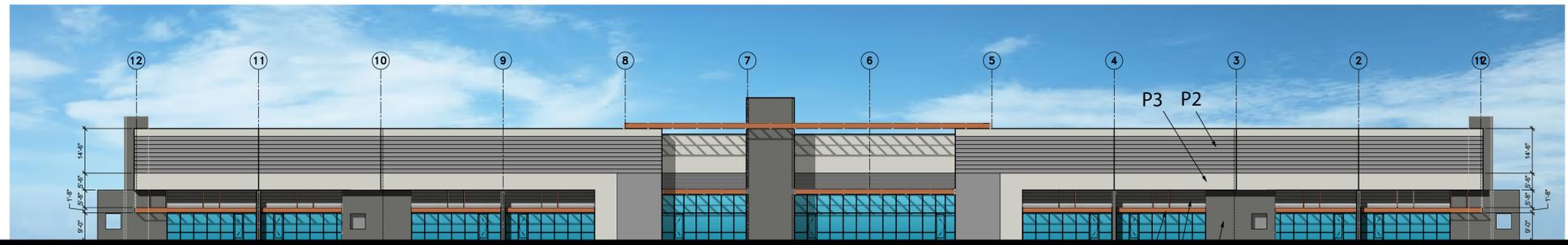
**WEST ELEVATION**  
SCALE 1/16" = 1'-0"



**EAST ELEVATION**  
SCALE 1/16" = 1'-0"

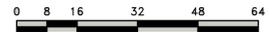


**SOUTH ELEVATION**  
SCALE 1/16" = 1'-0"



**NORTH ELEVATION**  
SCALE 1/16" = 1'-0"

P4 CORR. P1  
MTL



**AIRGATE CENTER**  
E. RAY ROAD, MESA AZ.  
EXTERIOR ELEVATIONS

A-201  
38004  
20JUN19





**DECORATIVE CONCRETE FORM:**  
 CONCRETE FORMLINER SHALL BE PATTERN 1710, CONNECTICUT FLUTE, 0.5" DEPTH, 2" PATTERN REPEAT AS MANUFACTURED BY SPEC FORMLINERS  
 SET HORIZONTAL ON PANELS.

**METAL PANELS:**  
 METAL PANELS SHALL BE PATTERN CN88-1653 CF WALL CONTEMPRA SERIES 7/8" DEPTH, AS MANUFACTURED BY METAL SALES MANUFACTURING CORP.  
 SET HORIZONTAL.

**GLASS:**  
 TINTED VISION GLASS: 1" INSULATED: 1/2" PPG SOLARCOOL PACIFICA; REFLECTIVE #2: 1/2" A.S.; 1/2" CLEAR LOW-E #3; REFLECTANCE 10% U-FACTOR .47; SHGC .25  
 T = TEMPERED GLASS  
 ALUMINUM FRAMES BY ARCADIA; SERIES AFG451; OR TC770; CLEAR ANODIZED FINISH

**NOTES:**

- SOLID MASONRY WALLS AND GATES EQUAL TO, OR GREATER THAN THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT SHALL SCREEN ALL GROUND MOUNTED MECHANICAL EQUIPMENT.
- COLORS SUBJECT TO ARCHITECT'S APPROVAL OF 4' X 4' BUILDING APPLIED SAMPLES. ADDITIONAL SAMPLES MAY BE REQUIRED PRIOR TO FINAL APPROVAL.
- ALL ROOF TOP MECHANICAL EQUIPMENT MUST BE FULLY SCREENED BY BUILDING PARAPET WALLS. SEE BUILDING SECTIONS ON SHEET A-301.
- CONCRETE TILT PANELS TO RECEIVE A SMOOTH UNIFORM FINISH.
- WINDOW WALL SYSTEM LATERAL DESIGN LOADS AS CALCULATED BY WINDOW SYSTEM MFR. & STRUCT. ENGR.
- ALL SIGNAGE REQUIRES SEPARATE REVIEW AND PERMIT PROCESS, EXCEPT ADDRESS NUMBERS

**PAINT:**

**NOTE:** NO COLOR SHALL HAVE A LIGHT REFLECTIVE VALUE (LRV) IN EXCESS OF 75.

**COLOR SCHEDULE**

- P1 DET611 DUNN EDWARDS IRON-ic LRV 15
- P2 DET612 DUNN EDWARDS STIEGLITZ SILVER LRV 27
- P3 DET614 DUNN EDWARDS SO CHIC! LRV 61
- P4 DET467 DUNN EDWARDS HARRISON RUST; LRV 15

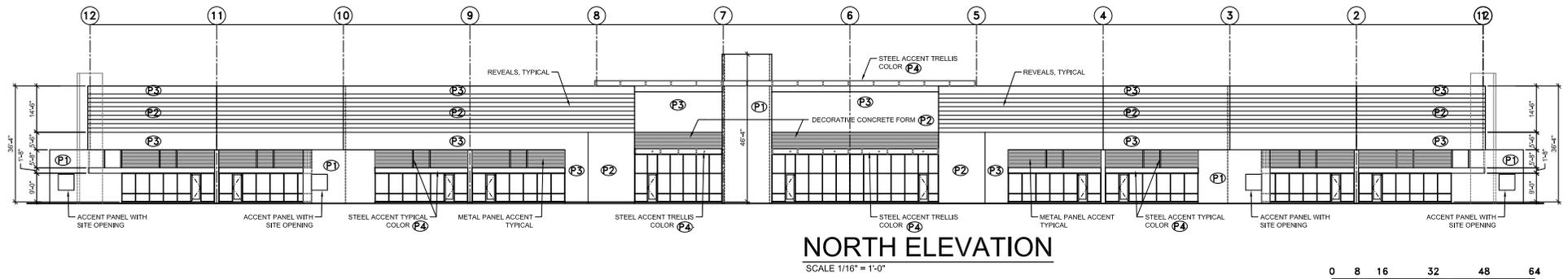
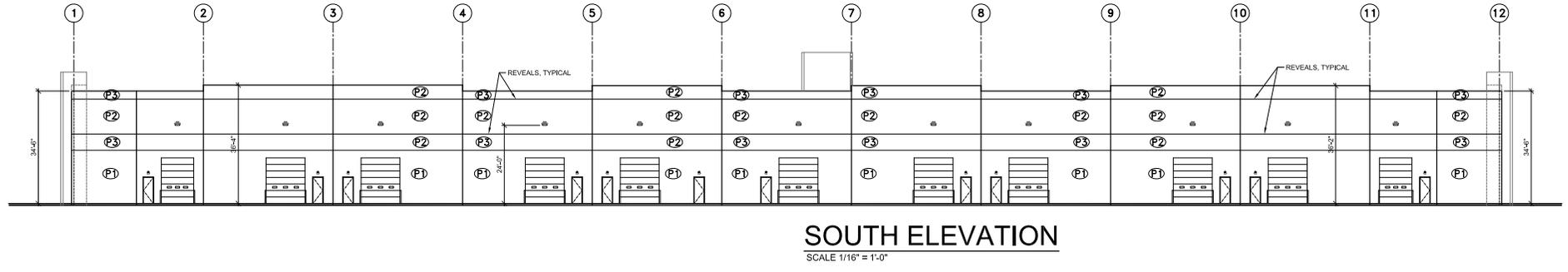
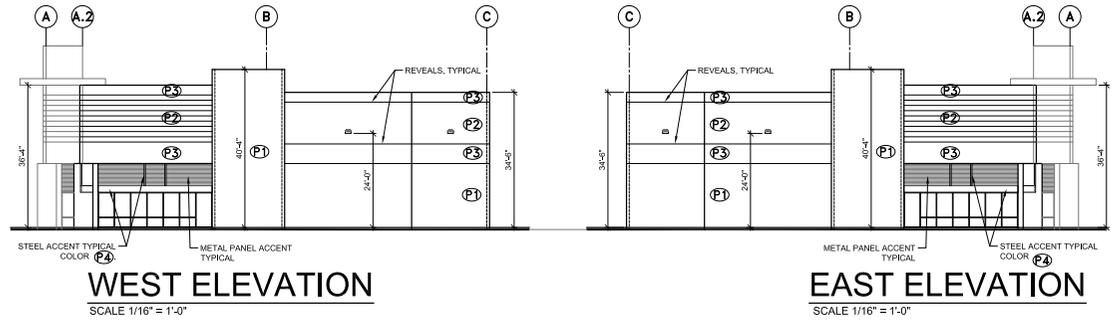
**PAINT SPECIFICATIONS**

ALL EXPOSED CONCRETE AND MASONRY SURFACES:

PRIMER: PPG PERMA-CRETE 4-603 ALKALI RESISTANT PRIMER

PAINT: 2 COATS PREMIUM EXTERIOR LATEX PAINT MINIMUM 1.2 DRY MILS PER COAT. APPLY PRIMER AND PAINT IN ACCORDANCE WITH MFR. PRINTED INSTRUCTIONS.

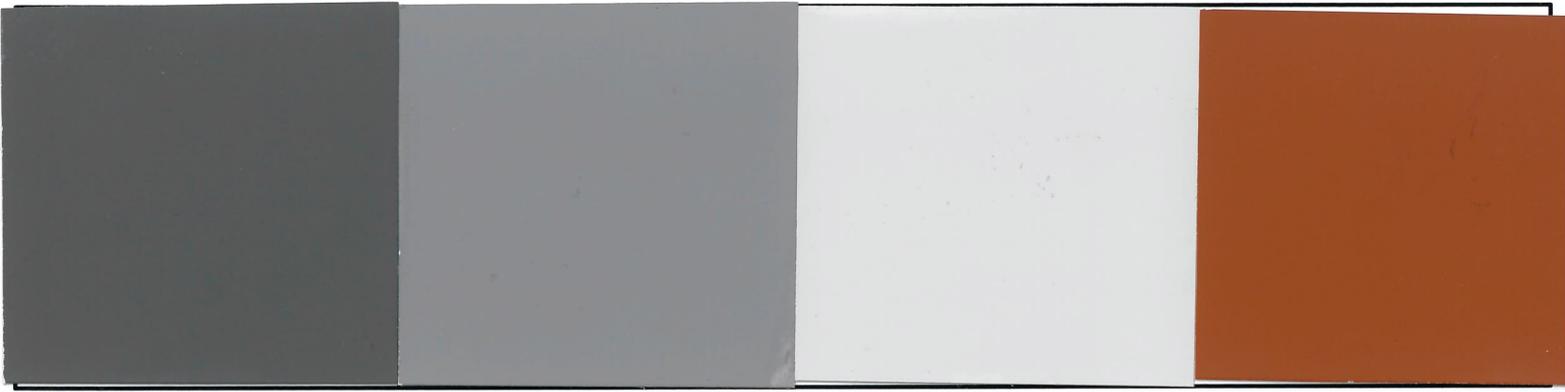
ALL EXPOSED METAL DOORS AND FRAMES SHALL MATCH COLOR P1 - SEMI-GLOSS LATEX ENAMEL WITH MFR. RECOMMENDED PRIMER



**AIRGATE CENTER**  
 7363 E. RAY ROAD, MESA AZ.  
 EXTERIOR ELEVATIONS

**A-201**  
 8/24/23  
 8/28/23





**P1 - DET 611  
IRON-ic**

**P2 - DET 612  
STIEGLITZ SILVER**

**P3 - DET 614  
SO CHIC!**

**P1 - DET 467  
HARRISON RUST**

**ALL COLORS ARE BY DUNN EDWARDS**



**GLASS PPG  
SOLARCOOL  
PACIFICA**



**MASONRY**

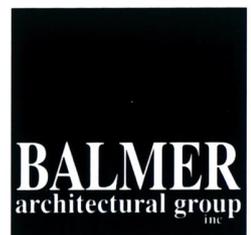


**FORMLINER  
CONNECTICUT  
FLUTE**

**METAL PANEL  
CN88-1653 CF  
CONTEMPRA  
SERIES**

**AIRGATE CENTER  
7353 E. RAY RD.  
PROJECT MATERIALS**

2425 EAST CAMELBACK RD. SUITE 775 PHOENIX AZ 85016 TEL: 602-954-6718 FAX: 602-468-9680





**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSX1 LED P7 40K T4M MVOLT SPA  
DDBXD  
Notes:

**Type:**  
**P1**  
RCL18-93484



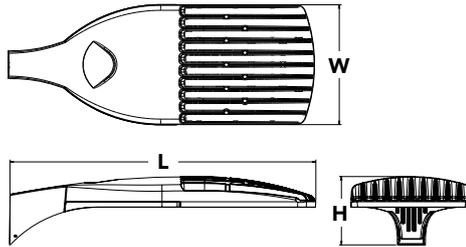
## D-Series Size 1 LED Area Luminaire



**TYPICAL SITE AREA AND  
PARKING LIGHTING &  
WALL PAC - SOUTH ELEV.**

### Specifications

**EPA:** 1.01 ft<sup>2</sup>  
(0.09 m<sup>2</sup>)  
**Length:** 33"  
(83.8 cm)  
**Width:** 13"  
(33.0 cm)  
**Height:** 7-1/2"  
(19.0 cm)  
**Weight (max):** 27 lbs  
(12.2 kg)



### Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

## Ordering Information

Series	LEDs	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	<b>Forward optics</b>	30K 3000 K	T1S Type I short	MVOLT <sup>4,5</sup>	<b>Shipped included</b>
	P1 P4 <b>P7</b>	<b>40K 4000 K</b>	T2S Type II short		<b>SPA</b> Square pole mounting
	P2 P5 P8	50K 5000 K	T2M Type II medium		RPA Round pole mounting
	P3 P6 P9	AMBPC Amber phosphor converted <sup>2</sup>	T3S Type III short		WBA Wall bracket
	<b>Rotated optics</b>		T3M Type III medium		SPUMBA Square pole universal mounting adaptor <sup>8</sup>
	P10 <sup>1</sup> P12 <sup>1</sup>		<b>T4M Type IV medium</b>		RPUMBA Round pole universal mounting adaptor <sup>8</sup>
	P11 <sup>1</sup> P13 <sup>1</sup>		TFTM Forward throw medium		<b>Shipped separately</b>
			T5S Type V very short		KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) <sup>9</sup>

Control options	Other options	Finish (required)
<p><b>Shipped installed</b></p> <p>NLTAIR2 nLight AIR generation 2 enabled<sup>10</sup></p> <p>PER NEMA twist-lock receptacle only (controls ordered separate)<sup>11</sup></p> <p>PERS Five-wire receptacle only (controls ordered separate)<sup>11,12</sup></p> <p>PER7 Seven-wire receptacle only (controls ordered separate)<sup>11,12</sup></p> <p>DMG 0-10V dimming extend out back of housing for external control (leads exit fixture)</p> <p>DS Dual switching<sup>13,14</sup></p> <p>PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc<sup>5,15,16</sup></p> <p>PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc<sup>5,15,16</sup></p> <p>PIRHN Network, Bi-Level motion/ambient sensor<sup>17</sup></p> <p>PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc<sup>5,15,16</sup></p>	<p>PIR1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc<sup>5,15,16</sup></p> <p>BL30 Bi-level switched dimming, 30%<sup>5,14,18</sup></p> <p>BL50 Bi-level switched dimming, 50%<sup>5,14,18</sup></p> <p>PNMTDD3 Part night, dim till dawn<sup>5,19</sup></p> <p>PNMT5D3 Part night, dim 5 hrs<sup>5,19</sup></p> <p>PNMT6D3 Part night, dim 6 hrs<sup>5,19</sup></p> <p>PNMT7D3 Part night, dim 7 hrs<sup>5,19</sup></p> <p>FAO Field adjustable output<sup>20</sup></p> <p><b>Shipped installed</b></p> <p>HS House-side shield<sup>21</sup></p> <p>SF Single fuse (120, 277, 347V)<sup>6</sup></p> <p>DF Double fuse (208, 240, 480V)<sup>6</sup></p> <p>L90 Left rotated optics<sup>1</sup></p> <p>R90 Right rotated optics<sup>1</sup></p> <p><b>Shipped separately</b></p> <p>BS Bird spikes<sup>22</sup></p> <p>EGS External glare shield<sup>22</sup></p>	<p><b>DDBXD</b> Dark bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured dark bronze</p> <p>DBLBXD Textured black</p> <p>DNATXD Textured natural aluminum</p> <p>DWHGXD Textured white</p>





**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSX1 LED P7 40K T4M MVOLT SPA  
DDBXD  
Notes:

**Type:**  
**P1**  
RCL18-93484

### Ordering Information

#### Accessories

Ordered and shipped separately.

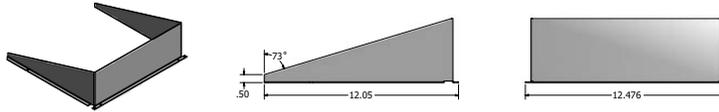
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>23</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>23</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>23</sup>
DSHORT SBK U	Shorting cap <sup>23</sup>
DSX1HS 30C U	House-side shield for 30 LED unit <sup>21</sup>
DSX1HS 40C U	House-side shield for 40 LED unit <sup>21</sup>
DSX1HS 60C U	House-side shield for 60 LED unit <sup>21</sup>
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) <sup>24</sup>
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>24</sup>

For more control options, visit [DTL](#) and [ROAM](#) online.

#### NOTES

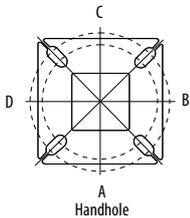
- P10, P11, P12 or P13 and rotated optics (L90, R90) only available together.
- AMBPC is not available with BLC, LCCO, RCCO or P4, P7, P8, P9 or P13.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- Any PIRx with BL30, BL50 or PNMT, is not available with 208V, 240V, 347V, 480V or MVOLT. It is only available in 120V or 277V specified.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Not available in P1 or P10. Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Must be ordered with PIRHN.
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. Shorting cap included.
- If ROAM<sup>®</sup> node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming. Shorting cap included.
- Provides 50/50 fixture operation via (2) independent drivers. Not available with PER, PER5, PER7, PIR or PIRH. Not available P1, P2, P3, P4 or P5.
- Requires (2) separately switched circuits.
- Reference Motion Sensor table on page 3.
- Reference PER table on page 3 to see functionality.
- Must be ordered with NLTAR2. For more information on nLight Air 2 visit [this link](#).
- Not available with 347V, 480V, PNMT, DS. For PER5 or PER7, see PER Table on page 3. Requires isolated neutral.
- Not available with 347V, 480V, DS, BL30, BL50. For PER5 or PER7, see PER Table on page 3. Separate Dusk to Dawn required.
- Not available with other dimming controls options
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- Must be ordered with fixture for factory pre-drilling.
- Requires Luminaire to be specified with PER, PER5 or PER7 option. See PER Table on page 3.
- For retrofit use only.

### External Glare Shield



### Drilling

#### HANDHOLE ORIENTATION



#### Tenon Mounting Slipfitter\*\*

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

#### Pole drilling nomenclature: # of heads at degree from handhole (default side A)

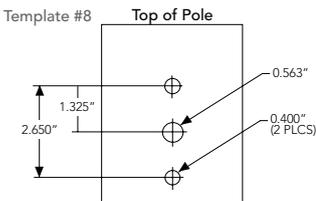
DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
DSX SPA	Y	Y	Y	N	-	-	-	-
DSX RPA	Y	Y	N	N	Y	Y	Y	Y
DSX SPUMBA	Y	N	N	N	-	-	-	-
DSX RPUMBA	N	N	N	N	Y	Y	Y	N

\*3 fixtures @ 120 require round pole top/tenon.

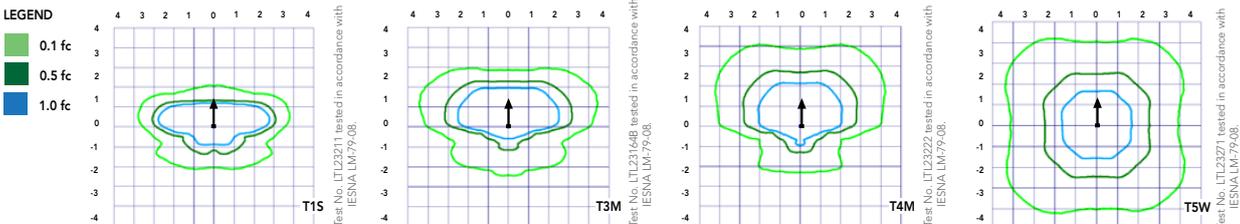
#### Template #8



### Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Area Size 1 homepage](#).

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (25').



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSX1-LED  
Rev. 07/25/18

Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSX1 LED P7 40K T4M MVOLT SPA  
DDBXD  
Notes:

**Type:**  
**P1**  
RCL18-93484

## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier	
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°F</b>	<b>1.00</b>
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25000	50000	100000
Lumen Maintenance Factor	1.00	0.96	0.92	0.85

### Electrical Load

Performance Package	LED Count	Drive Current	Wattage	Current (A)						
				120	208	240	277	347	480	
Forward Optics (Non-Rotated)	P1	30	530	54	0.45	0.26	0.23	0.19	0.10	0.12
	P2	30	700	70	0.59	0.34	0.30	0.25	0.20	0.16
	P3	30	1050	102	0.86	0.50	0.44	0.38	0.30	0.22
	P4	30	1250	125	1.06	0.60	0.52	0.46	0.37	0.27
	P5	30	1400	138	1.16	0.67	0.58	0.51	0.40	0.29
	P6	40	1250	163	1.36	0.78	0.68	0.59	0.47	0.34
	P7	40	1400	183	1.53	0.88	0.76	0.66	0.53	0.38
	P8	60	1050	207	1.74	0.98	0.87	0.76	0.64	0.49
	P9	60	1250	241	2.01	1.16	1.01	0.89	0.70	0.51
Rotated Optics (Requires L90 or R90)	P10	60	530	106	0.90	0.52	0.47	0.43	0.33	0.27
	P11	60	700	137	1.15	0.67	0.60	0.53	0.42	0.32
	P12	60	1050	207	1.74	0.99	0.87	0.76	0.60	0.46
	P13	60	1250	231	1.93	1.12	0.97	0.86	0.67	0.49

### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	Photocell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ 5FC	5 min	3 sec	5 min
*PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

\*for use with Inline Dusk to Dawn or timer.

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
		Wire 4/Wire5	Wire 4/Wire5	Wire 4/Wire5	Wire 6/Wire7	
Photocontrol Only (On/Off)	✓	▲	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	✗	✓	Wired to dimming leads on driver	▲	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion (ROAM on/off only)	✗	▲	Wires Capped inside fixture	▲	Wires Capped inside fixture	Wires Capped inside fixture
Future-proof*	✗	▲	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Future-proof* with Motion	✗	▲	Wires Capped inside fixture	✓	Wires Capped inside fixture	Wires Capped inside fixture



\*Future-proof means: Ability to change controls in the future.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSX1-LED  
Rev. 07/25/18

Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSX1 LED P7 40K T4M MVOLT SPA  
DDBXD  
Notes:

**Type:**  
**P1**  
RCL18-93484

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Forward Optics

LED Count	Drive Current	Power Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMBPC (Amber Phosphor Converted)										
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lu-mens	B	U	G	LPW						
40	1250	P6	163W	T1S	17,654	3	0	3	108	19,018	3	0	3	117	19,259	3	0	3	118											
				T2S	17,635	3	0	3	108	18,998	3	0	3	117	19,238	3	0	3	118											
				T2M	17,726	3	0	3	109	19,096	3	0	3	117	19,337	3	0	3	119											
				T3S	17,167	3	0	3	105	18,493	3	0	3	113	18,727	3	0	3	115											
				T3M	17,683	3	0	3	108	19,049	3	0	3	117	19,290	3	0	3	118											
				T4M	17,299	3	0	3	106	18,635	3	0	4	114	18,871	3	0	4	116											
				TFTM	17,672	3	0	3	108	19,038	3	0	4	117	19,279	3	0	4	118											
				TSVS	18,379	4	0	1	113	19,800	4	0	1	121	20,050	4	0	1	123											
				TSS	18,394	4	0	2	113	19,816	4	0	2	122	20,066	4	0	2	123											
				TSM	18,348	4	0	2	113	19,766	4	0	2	121	20,016	4	0	2	123											
				TSW	18,228	5	0	3	112	19,636	5	0	3	120	19,885	5	0	3	122											
				BLC	14,489	2	0	2	89	15,609	2	0	3	96	15,806	2	0	3	97											
				LCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72											
				RCCO	10,781	1	0	3	66	11,614	1	0	3	71	11,761	2	0	3	72											
				40	1400	P7	183W	T1S	19,227	3	0	3	105	20,712	3	0	3	113	20,975	3	0	3	115							
								T2S	19,206	3	0	3	105	20,690	3	0	3	113	20,952	3	0	3	114							
T2M	19,305	3	0					3	105	20,797	3	0	3	114	21,060	3	0	3	115											
T3S	18,696	3	0					3	102	20,141	3	0	3	110	20,396	3	0	4	111											
T3M	19,258	3	0					3	105	20,746	3	0	3	113	21,009	3	0	3	115											
T4M	18,840	3	0					4	103	20,296	3	0	4	111	20,553	3	0	4	112											
TFTM	19,246	3	0					4	105	20,734	3	0	4	113	20,996	3	0	4	115											
TSVS	20,017	4	0					1	109	21,564	4	0	1	118	21,837	4	0	1	119											
TSS	20,033	4	0					2	109	21,581	4	0	2	118	21,854	4	0	2	119											
TSM	19,983	4	0					2	109	21,527	5	0	3	118	21,799	5	0	3	119											
TSW	19,852	5	0					3	108	21,386	5	0	3	117	21,656	5	0	3	118											
BLC	15,780	2	0					3	86	16,999	2	0	3	93	17,214	2	0	3	94											
LCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70											
RCCO	11,742	2	0					3	64	12,649	2	0	3	69	12,809	2	0	3	70											
60	1050	P8	207W					T1S	22,490	3	0	3	109	24,228	3	0	3	117	24,535	3	0	3	119							
								T2S	22,466	3	0	4	109	24,202	3	0	4	117	24,509	3	0	4	118							
				T2M	22,582	3	0	3	109	24,327	3	0	3	118	24,635	3	0	3	119											
				T3S	21,870	3	0	4	106	23,560	3	0	4	114	23,858	3	0	4	115											
				T3M	22,527	3	0	4	109	24,268	3	0	4	117	24,575	3	0	4	119											
				T4M	22,038	3	0	4	106	23,741	3	0	4	115	24,041	3	0	4	116											
				TFTM	22,513	3	0	4	109	24,253	3	0	4	117	24,560	3	0	4	119											
				TSVS	23,415	5	0	1	113	25,224	5	0	1	122	25,543	5	0	1	123											
				TSS	23,434	4	0	2	113	25,244	4	0	2	122	25,564	4	0	2	123											
				TSM	23,374	5	0	3	113	25,181	5	0	3	122	25,499	5	0	3	123											
				TSW	23,221	5	0	4	112	25,016	5	0	4	121	25,332	5	0	4	122											
				BLC	18,458	2	0	3	89	19,885	2	0	3	96	20,136	2	0	3	97											
				LCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72											
				RCCO	13,735	2	0	3	66	14,796	2	0	4	71	14,983	2	0	4	72											
				60	1250	P9	241W	T1S	25,575	3	0	3	106	27,551	3	0	3	114	27,900	3	0	3	116							
								T2S	25,548	3	0	4	106	27,522	3	0	4	114	27,871	3	0	4	116							
T2M	25,680	3	0					3	107	27,664	3	0	3	115	28,014	3	0	3	116											
T3S	24,870	3	0					4	103	26,791	3	0	4	111	27,130	3	0	4	113											
T3M	25,617	3	0					4	106	27,597	3	0	4	115	27,946	3	0	4	116											
T4M	25,061	3	0					4	104	26,997	3	0	4	112	27,339	3	0	4	113											
TFTM	25,602	3	0					4	106	27,580	3	0	4	114	27,929	3	0	4	116											
TSVS	26,626	5	0					1	110	28,684	5	0	1	119	29,047	5	0	1	121											
TSS	26,648	4	0					2	111	28,707	5	0	2	119	29,070	5	0	2	121											
TSM	26,581	5	0					3	110	28,635	5	0	3	119	28,997	5	0	3	120											
TSW	26,406	5	0					4	110	28,447	5	0	4	118	28,807	5	0	4	120											
BLC	20,990	2	0					3	87	22,612	2	0	3	94	22,898	2	0	3	95											
LCCO	15,619	2	0					4	65	16,825	2	0	4	70	17,038	2	0	4	71											
									15,619	2	0	4	65	16,825	2	0	4	70	17,038	2	0	4	71							



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSX1-LED  
Rev. 07/25/18

Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSX1 LED P7 40K T4M MVOLT SPA  
DDBXD  
Notes:

**Type:**  
**P1**  
RCL18-93484

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft<sup>3</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L85/100,000 hours at 25°C). Class 1

electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block and NEMA photocontrol receptacle are also available.

### LISTINGS

UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2011-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSX1-LED  
Rev. 07/25/18

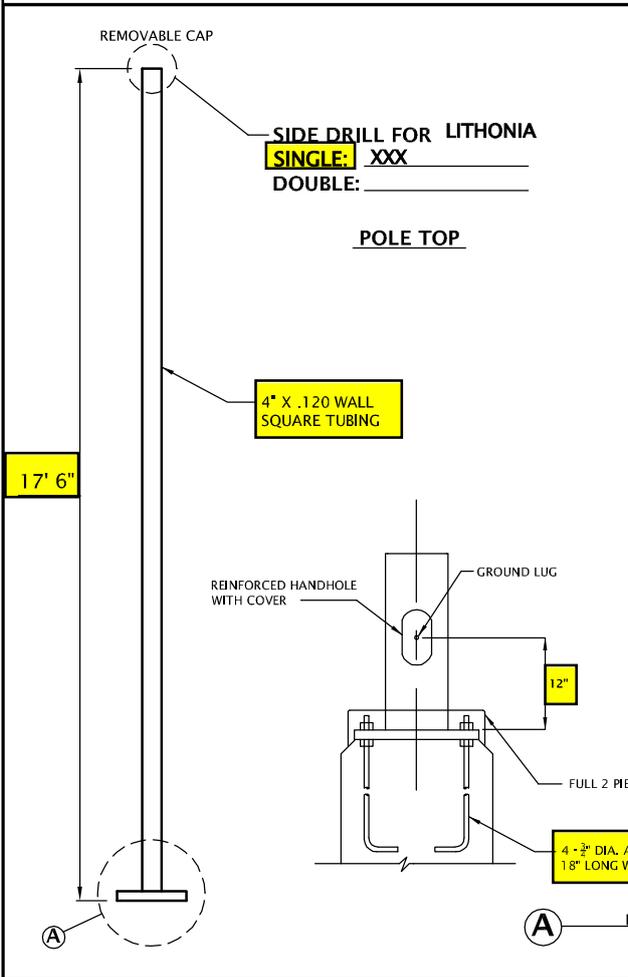
Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
17.5' X 4" SSS POLE FOR(1) DSX1  
LED DDBXD  
Notes:

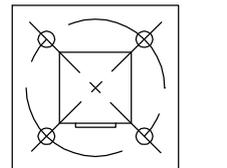
**Type:**  
**P1**  
RCL18-93484



**SPECIFICATIONS:**

- DESIGN CRITERIA:** POLE SHALL BE DESIGNED PER IBC 2015/115 MPH.
- POLE SHAFT:** THE POLE SHAFT IS FABRICATED FROM A WELDABLE GRADE HOT-ROLLED SQUARE TUBING THAT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM A500B. IT HAS A MINIMUM YIELD STRENGTH OF 46,000 PSI
- ANCHOR BASE:** THE BASE PLATE IS FABRICATED FROM A STRUCTURAL QUALITY HOT-ROLLED CARBON PLATE THAT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM-A36. IT HAS A MINIMUM YIELD STRENGTH OF 36,000 PSI.
- ANCHOR BOLTS:** ANCHOR BOLTS ARE FABRICATED FROM HOT-ROLLED CARBON STEEL BAR THAT MEET OR EXCEED REQUIREMENTS OF ASTM A36. EACH BOLT HAS AN "L" BEND ON ONE END AND A MINIMUM 4" THREAD ON THE OTHER, WITH 2 NUTS AND 2 WASHERS (ASSEMBLED). THE ANCHOR BOLT IS HOT-DIPPED GALVANIZED PER ASTM-A153.
- HANDHOLE:** THE HANDHOLE CONSISTS OF A 3" X 5" OVAL REINFORCED FRAME WITH 16 GAUGE COVER, STEEL ATTACHMENT BAR, AND 1/4" SCREW. A GROUNDING LUG IS INSTALLED INSIDE THE POLE SHAFT OPPOSITE THE HANDHOLE OPENING. THE HANDHOLE IS WELDED IN THE POLE SHAFT AND LOCATED AT 12" ABOVE THE BASE.
- FINISH** AFTER FABRICATION, THE POLE IS SAND BLASTED TO A NEAR WHITE FINISH AND TREATED WITH AN IRON PHOSPHATE SOLUTION. A HIGH QUALITY POLYESTER POWDER IS THEN ELECTROSTATICALLY APPLIED AND CURED TO A MINIMUM 2.5 MIL. THICKNESS.

**DDBXD - DARK BRONZE**



**CEM-TEC CORPORATION**  
Steel Manufacturing Light Standards

3745 South 7th Avenue  
Phoenix, Arizona 85041  
(602) 268-8895 (Tel)  
(602) 276-7251 (Fax)  
Web: <http://www.cem-tec.com>

**ORSETT GATEWAY TECHNOLOGY & COMMERCE CENTER**

9/25/18

Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSXF1 LED P1 40K MFL MVOLT  
THK DDBXD  
Notes:

**Type:**  
**D**  
RCL18-93484



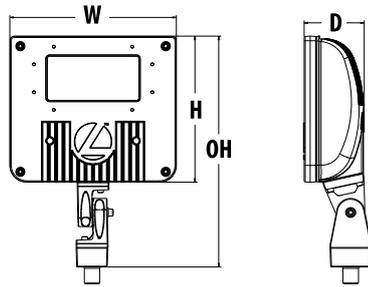
d<sup>series</sup>

# D-Series Size 1 LED Flood Luminaire



## Specifications

<b>EPA:</b>	0.6 ft <sup>2</sup> (0.05 m <sup>2</sup> )
<b>Depth:</b>	3-1/8" (8.0 cm)
<b>Width:</b>	8-7/8" (22.4 cm)
<b>Height:</b>	7-3/4" (19.8 cm)
<b>Overall Height:</b>	12" (30.5 cm)
<b>Weight:</b>	7.2 lbs (3.3 kg)



## Introduction

D-Series Size 1 Flood features advanced optics and precision illumination in a sleek and compact form that seamlessly blends with the environment. State of the art reflector design with cutting edge chip-on-board LED technology produces excellent uniformity using precision beam patterns. Provides long-life replacement for 70-150W metal halide floodlights offering up to 77% energy savings with expected service life of over 100,000 hours.

## Ordering Information

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting	Options	Finish (required)	
DSXF1 LED	P1	30K 3000K	NSP Narrow spot	MVOLT <sup>1</sup>	<b>Shipped included</b>	PE Photocontrol, button style <sup>4,5</sup> PEX Photocontrol external threaded adjustable <sup>5</sup>	DDBXD Dark bronze	
		40K 4000K	MSP Medium spot	120 <sup>2</sup>				
	P2	50K 5000K	MFL Medium flood	208 <sup>2</sup>	<b>Shipped separately<sup>3</sup></b>	IS Integral slipfitter (fits 2-3/8" O.D. tenon) YKC62 Yoke with 16-350 cord DSXF1/2TS Tenon slipfitter (2-3/8" O.D. THK required) FTS CG6 Tenon Slipfitter (fits 2-3/8" to 2-7/8" O.D. tenon. YKC62 required)	SF Single fuse (120, 277, 347V) <sup>2</sup> DF Double fuse (208, 240) <sup>2</sup> DMG 0-10V dimming driver (no controls) <b>Shipped separately<sup>3</sup></b> UBV Upper/bottom visor (universal) FV Full visor VG Vandal guard	DBLXD Black DNAXD Natural aluminum DWHXD White
		FL Flood	240 <sup>2</sup>					
		WFL Wide flood	277 <sup>2</sup>					
		WFR Wide flood, rectangular	347 <sup>2</sup>					
HMF Horizontal flood								

## Accessories

Ordered and shipped separately.

DSXF1/2TS DDBXD U	Slipfitter for 1-1/4" to 2-3/8" O.D. tenons; mates with 1/2" threaded knuckle (specify finish)
FRWB DDBXD U	Radius wall bracket, 2-3/8" O.D. tenon (specify finish)
FSPB DDBXD U	Steel square pole bracket, 2-3/8" O.D. tenon (specify finish)
DSXF1UBV DDBXD U	Upper/bottom visor accessory (specify finish)
DSXF1FV DDBXD U	Full visor accessory (specify finish)
DSXF1VG U	Vandal guard accessory

For more mounting options, visit our [Floodlighting Accessories](#) pages.

## Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number	CI Code
DSXF1 LED P1 40K WFL MVOLT THK DDBXD	DSXF1 LED P1 40K	*240TJH
DSXF1 LED P1 50K WFL MVOLT THK DDBXD	DSXF1 LED P1 50K	*240TJG
DSXF1 LED P1 40K WFL MVOLT YKC62 DDBXD	DSXF1 LED P1 40K YK	*263KL9
DSXF1 LED P1 50K WFL MVOLT YKC62 DDBXD	DSXF1 LED P1 50K YK	*263JUE
DSXF1 LED P2 40K WFL MVOLT THK DDBXD	DSXF1 LED P2 40K	*240TJL
DSXF1 LED P2 50K WFL MVOLT THK DDBXD	DSXF1 LED P2 50K	*240TJJ
DSXF1 LED P2 40K WFL MVOLT YKC62 DDBXD	DSXF1 LED P2 40K YK	*263KLA
DSXF1 LED P2 50K WFL MVOLT YKC62 DDBXD	DSXF1 LED P2 50K YK	*263JUG
DSXF1/2 Slip-fitter Tenon Accessory DDBXD	DSXF1/2TS DDBXD U	*216GSK

## NOTES

- MVOLT driver operates on line voltage from 120-277V.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Also available as accessories; see Accessories information at left.
- Rated 25C maximum ambient for performance package P2. Specify PEX for higher ambient temperatures.
- Photocontrol (PE, PEX) requires 120, 208, 240, 277 or 347 voltage option.
- Must specify 120, 277 or 347 voltage option.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2012-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSXF1-LED  
Rev. 02/14/18





**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
DSXF1 LED P1 40K MFL MVOLT  
THK DDBXD  
Notes:

Type:

**D**

RCL18-93484

## Mounting, Options and Accessories



**THK - Knuckle with 1/2" NPS threaded pipe**



**YKC62 - Yoke with 50 cord**  
H= 4-1/4" (10.7 cm)  
D= 2-1/4" (5.7 cm)



**IS - Integral slipfitter**  
H= 2-1/2" (6.3 cm)  
ID= 2-3/8" (6.0 cm)  
OD= 3-1/2" (8.8 cm)



**UBV - Upper/bottom visor**  
W= 5-1/4" (13.3 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**FV - Full visor**  
W= 5-1/4" (13.3 cm)  
H= 2-1/2" (6.3 cm)  
D= 3" (7.6 cm)



**VG - Vandal guard**  
W= 6-1/2" (16.5 cm)  
H= 4" (10.1 cm)

## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 1 Flood reflects the embedded high performance LED technology. It is ideal for landscape, signage and accent lighting in many commercial and residential applications.

### CONSTRUCTION

Die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants using a tempered glass lens (IP66). Low EPA (0.6 ft<sup>3</sup>) for optimized wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

### OPTICS

A variety of precision-molded vacuum-metallized specular reflectors are engineered for superior target illumination, uniformity and spacing. Light engines are available in 3000K (70 CRI min.), 4000K (70 CRI min.) or 5000K (70 CRI min.) configurations. Optional visors offer additional versatility.

### ELECTRICAL

Light engine(s) consist of chip-on-board (COB) LEDs directly coupled to the housing to maximize heat dissipation and promote long life (100,000 hrs, L80). Single-engine unit uses a Class 2 electronic driver; dual-engine unit uses a Class 1 electronic driver. Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Standard 6KV surge protection meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### INSTALLATION

Integral adjustable knuckle with 1/2-14NPS threaded pipe, tenon slipfitter, or integral slipfitter, facilitates quick and easy installation to a variety of mounting accessories. This secure connection enables the D-Series Size 1 to withstand up to a 1.5 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 800.279.8041 • [www.lithonia.com](http://www.lithonia.com)  
© 2012-2018 Acuity Brands Lighting, Inc. All rights reserved.

DSXF1-LED  
Rev. 02/14/18

Submitted by R.C. Lurie Co.



**Job Name:**  
ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**  
MEZ LED ACEM DB 120/277V AT

Notes:

**Type:**  
**WB**

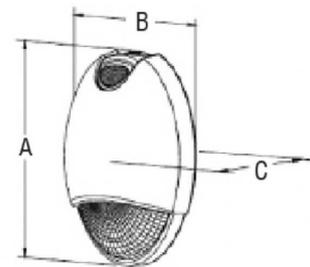
RCL18-93484

# MEZZO

WET | COLD | POWERED BY SAMSUNG LED



WALL MTD EXTERIOR  
EMERGENCY AT SOUTH  
ELEVATION ONLY



### ■ specifications: internal

The MEZZO uses a universal 120V or 277V input transformer. The automatic recharge circuit is regulated by an electronic voltage sensor and the battery is protected by a low voltage cut-off circuit. Auto-test diagnostics is standard on all MEZZO emergency units. Standard operating temperature is 0°C to 50°C. Optional cold temperature operation allows for -20°C to 50°C.

### ■ specifications: external

The MEZZO housing is constructed from die-cast aluminum and finished in a durable powder coat. The polycarbonate lenses are UV stabilized and incorporate white optics for maximum distribution and efficiency.

A	B	C
10.47"	6.54"	3.78"
266mm	166mm	96mm

### ■ ordering logic

Series	Light Source	Operation	Housing	Voltage	Options
MEZ	LED	AC (AC only)	AL <sup>1</sup> (silver)	120/277V	AT <sup>2</sup> (autotest)
		ACEM (AC & emergency)	B (black)		CL (cold location)
			DB (dark bronze)		
			WH (white)		

NOTE 1: Special order contact factory  
NOTE 2: Comes standard on ACEM version.



11-11-16

www.beghelliusa.com

**Job Name:**

ORSETT GATEWAY TECHNOLOGY &  
COMMERCE CENTER - E. RAY RD, MESA  
Engineer: Kraemer Engineering (Phoenix)  
Contractor: Abco West (Phoenix)

**Catalog Number:**

MEZ LED ACEM DB 120/277V AT

Notes:

**Type:****WB**

RCL18-93484

# Technical

## ■ housing colors



AC Mode: 1080 lm  
EM Mode: 260 lm  
Efficacy: 74 lm/W

Color Temperature: 5000K  
L70 at >75,000 hours

## ■ specifications: electrical

**BATTERY:** The MEZZO ACEM models uses nickel-cadmium battery that provides a minimum 90 minutes emergency duration. The battery is protected from deep discharge by a low-voltage battery disconnect.

## ■ specifications: mechanical

AC Only utilizes photocell technology or a wall switch for general lighting applications. The MEZZO is suitable for wet/damp locations and operates in the temperature range of 0° to 50°C.

AC and Emergency Operation operates the MEZZO under normal utility power and the charging circuit maintains the battery at full capacity. The unit is switched on/off utilizing a photocell for maximum energy efficiency or wall switch. When AC power fails the unit will automatically provide emergency light. The combined AC and Emergency version comes standard with self-diagnostics and self-test function.

The MEZZO is suitable for wet/damp locations, operation temperature range 0°C to 50°C. An alternative is the cold location option with a battery heater pad for an operating temperature of -20°C to 50°C.

## ■ ac input ratings

Operation	Voltage	Wattage	Rated Current
AC (AC only)	120V	13W	0.11A
	277V	13W	0.06A
ACEM (AC & emergency)	120V	15W	0.13A
	277V	15W	0.07A

## ■ autotest

As soon as AC power is supplied to the MEZZO, the unit will automatically initiate a self-diagnostic test. The MEZZO will verify battery disconnection, charger failure and transfer failure every 5 seconds. Every month, the unit will perform a one-minute battery discharge test. Every six months, the unit will perform a 30 minute battery discharge test. Once a year the unit will perform a 90 minute battery discharge test. A dual color red/green LED communicates the status of the unit.

## ■ cold location

The cold location option utilizes a battery heater pad which allows operation from -20°C to 50°C (-4°F to 122°F) for the Emergency Only or the combined AC and Emergency versions. The AC only unit does not require accessories to be suitable for -50°C cold location.

## ■ photocell

Under AC power, the MEZZO is switched on and off by a photocell. The photocell detects when the ambient light is reduced and turns the fixture on automatically. Operating with a photocell makes the MEZZO energy efficient only providing light when needed.

## ■ warranty

The MEZZO comes with a 5-year factory warranty. Lamps are not covered under the warranty. Deliberate damage, misuse, improper installation effectively cancel the warranty.