

APPLICATION FOR
URBAN DESIGN COMMISSION
REVIEW AND APPROVAL

AGENDA ITEM # _____
Project # _____
Legistar # 31652

DATE SUBMITTED: <u>April 11, 2014</u>	Action Requested
UDC MEETING DATE: <u>April 23, 2014</u>	<input type="checkbox"/> Informational Presentation
	<input checked="" type="checkbox"/> Initial Approval and/or Recommendation
	<input checked="" type="checkbox"/> Final Approval and/or Recommendation

PLEASE PRINT!

PLEASE PRINT!

PROJECT ADDRESS: 5851 Gemini Drive

ALDERMANIC DISTRICT: 3: Cnare

OWNER/DEVELOPER (Partners and/or Principals) ARCHITECT/DESIGNER/OR AGENT:
DSI Real Estate Group JLA Architects

2800 Royal Avenue 5325 Wall Street Suite 2700

Madison, WI 53713 Madison, WI 53718

CONTACT PERSON: Brian Munson, Vandewalle & Associates

Address: 120 East Lakeside Street

Madison, WI 53715

Phone: 608.255.3988

Fax: 608.255.0814

E-mail address: bmunson@vandewalle.com

CITY OF MADISON

TYPE OF PROJECT:

(See Section A for:)

- Planned Unit Development (PUD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Community Development (PCD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Residential Development (PRD)
- New Construction or Exterior Remodeling in an Urban Design District * (A public hearing is required as well as a fee)
- School, Public Building or Space (Fee may be required)
- New Construction or Addition to or Remodeling of a Retail, Hotel or Motel Building Exceeding 40,000 Sq. Ft.
- Planned Commercial Site

APR 14 2014
12:08pm lw
Planning & Community
& Economic Development

(See Section B for:)

- New Construction or Exterior Remodeling in C4 District (Fee required)

(See Section C for:)

- R.P.S.M. Parking Variance (Fee required)

(See Section D for:)

- Comprehensive Design Review* (Fee required)
- Street Graphics Variance* (Fee required)
- Other _____

*Public Hearing Required (Submission Deadline 3 Weeks in Advance of Meeting Date)

Where fees are required (as noted above) they apply with the first submittal for either initial or final approval of a project.



VANDEWALLE & ASSOCIATES INC.

April 11, 2014

Al Martin
Department of Planning & Development
City of Madison
215 Martin Luther King, Jr. Blvd.
Madison, WI 53710-2985

RE: E1 Building Grandview Commons Neighborhood
HVAC Amendment Request

Dear Al,

The following document and plans outline the request to amend the adopted SIP for the mixed use building at 5851 Gemini Drive, as it relates to the change to the HVAC system proposed for the project, per the attached plans.

We look forward to working with the City on the review and implementation of this project.

Sincerely,

Brian Munson
Principal

DSI REAL ESTATE, INC.

GRANDVIEW COMMONS APARTMENTS

PROGRESS DOCUMENTS

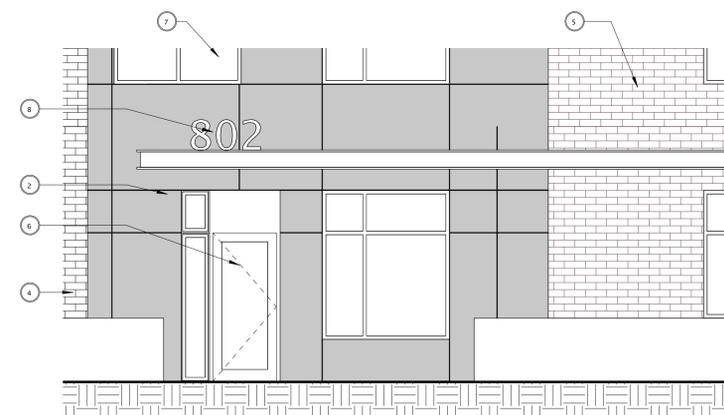
These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and should not be used for final bidding or construction-related purposes.

DATE OF ISSUANCE: MARCH 10, 2014

Revision Schedule		
Mark	Description	Date

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A200



DSI REAL ESTATE, INC.

GRANDVIEW COMMONS APARTMENTS

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DATE OF ISSUANCE: MARCH 10, 2014

Revision Schedule		
Mark	Description	Date

SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER
A201



6 WEST ELEVATION
3/32" = 1'-0"



16 NORTH ELEVATION
3/32" = 1'-0"

GEMINI DRIVE

NORTHSTAR DRIVE

31 SPACES

29 SPACES
(FUTURE)

FOUR STORY RESIDENTIAL BUILDING
(FUTURE)

FIVE STORY MIXED USE BUILDING

RETAIL PLAZA

JUPITER DRIVE

CITY OF MADISON LANDSCAPING REQUIREMENTS

Total Developed Square Footage	44300
Required Landscape Units (Total / 300 sq ft)	148
Required Landscape Points (Units x 5 points)	739

LANDSCAPE POINTS CALCULATION

PLANT TYPE (MINIMUM SIZE)	POINTS VALUE	CREDITS FOR EXISTING LANDSCAPING		PROPOSED LANDSCAPING	
		QUANTITY	POINTS	QUANTITY	POINTS
Overstory deciduous tree (2.5" caliper)	35	0	0	8	280
Ornamental Tree (1.5" caliper)	15	0	0	7	105
Evergreen Tree (3 feet tall)	15	0	0	20	300
Shrub, deciduous (18" or 3 gal. container)	2	0	0	129	258
Shrub, evergreen (18" or 3 gallon container)	3	0	0	47	141
Ornamental Grasses 18" or 3 gallon container)	2	0	0	127	254
Ornamental / decorative fencing or wall (per 10 in. ft.)	4	0	0	0	0
				SUBTOTAL	1338
				TOTAL OF PROVIDED POINTS	1338

GENERAL NOTES:

- BARK MULCH TO BE BROWN DYED, RECYCLED HARDWOOD, WITH PRE-EMERGENT HERBICIDE.
- WASHED STONE TO BE 1.5" CAPITOL WASHED WITH WEED BARRIER FABRIC.
- BED EDGING TO BE BLACK DIAMOND POLY-VINYL

STREET TREE NOTES:

- EXISTING TERRACE TREES TO REMAIN.

BIKE PARKING AND AMENITIES NOTES:

- SEE SITE PLAN FOR DETAILED LAYOUT



SCALE: 1"=20'-0"

Date: 10-17-13
Scale: 1"=20'-0"
Designer: BNF
Job #

Seal:
To protect against legal liability, the plans presented herein are "schematic," and should not be outsourced as "biddable" or "construction documents" unless approved by the Landscape Designer. This is not an original document unless stamped in red, as ORIGINAL.

Revisions:
October 23, 2013
October 31, 2013
November 1, 2013
November 4, 2013
March 17, 2014

Reference Name:
DSI

DSI REAL ESTATE, INC.

GRANDVIEW COMMONS APARTMENTS

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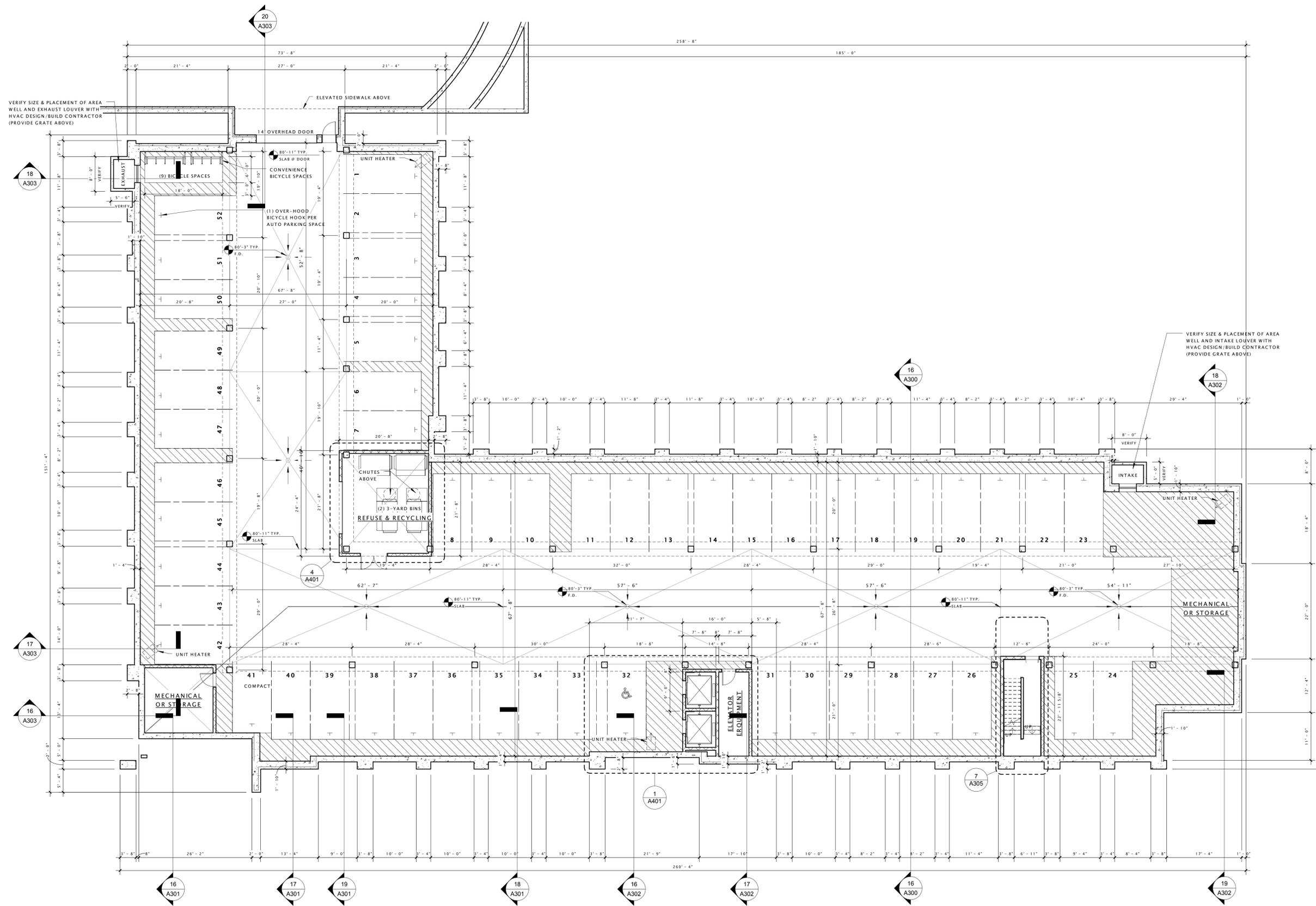
Revision Schedule		
Mark	Description	Date

SHEET TITLE

LOWER LEVEL 2 PLAN

SHEET NUMBER

A100



16 LOWER LEVEL 2
3/32" = 1'-0"

DSI REAL ESTATE, INC.

GRANDVIEW COMMONS
APARTMENTS

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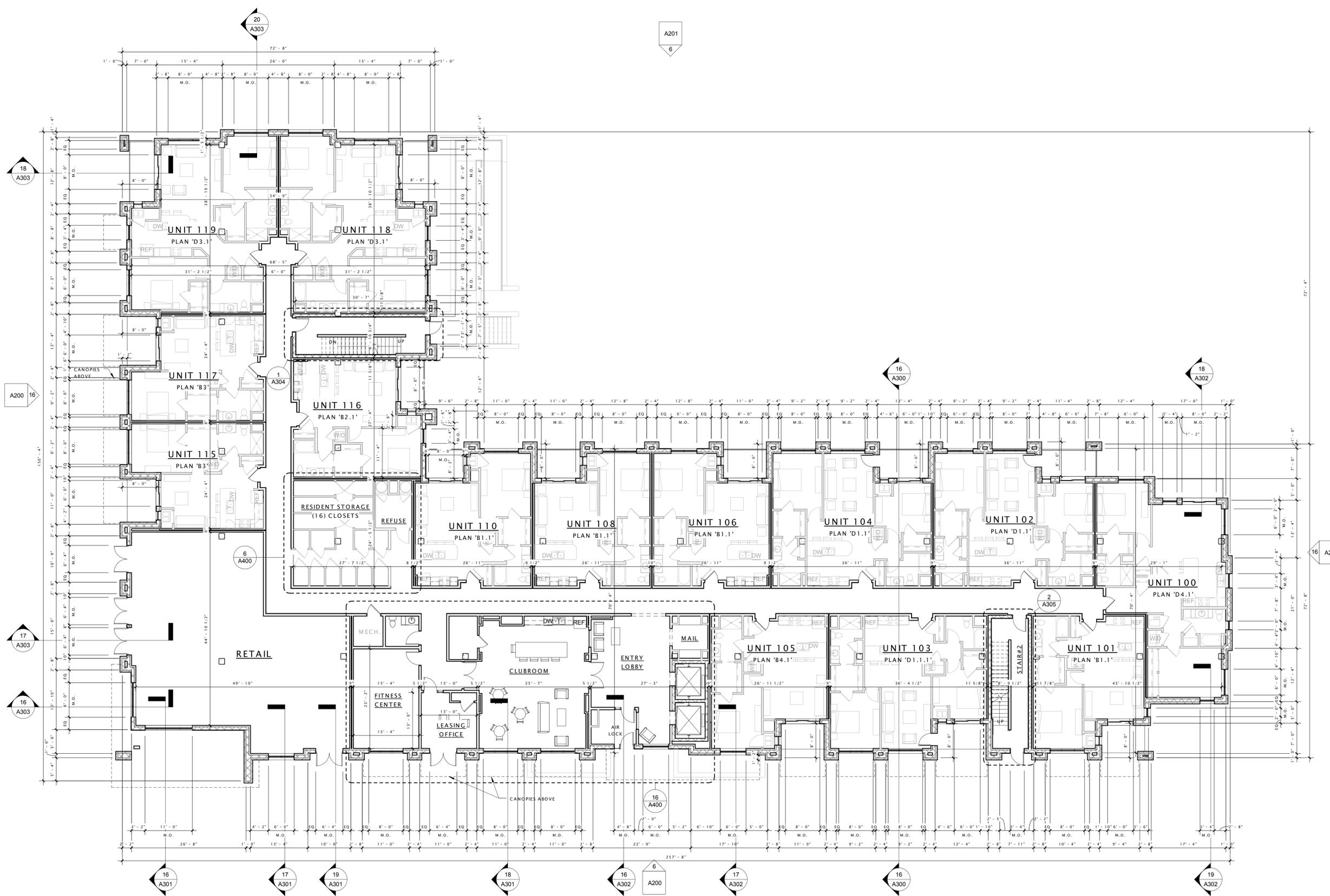
Revision Schedule		
Mark	Description	Date

SHEET TITLE

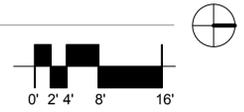
FIRST FLOOR PLAN -
INITIAL RETAIL

SHEET NUMBER

A101



16 FIRST FLOOR - INITIAL RETAIL
3/32" = 1'-0"



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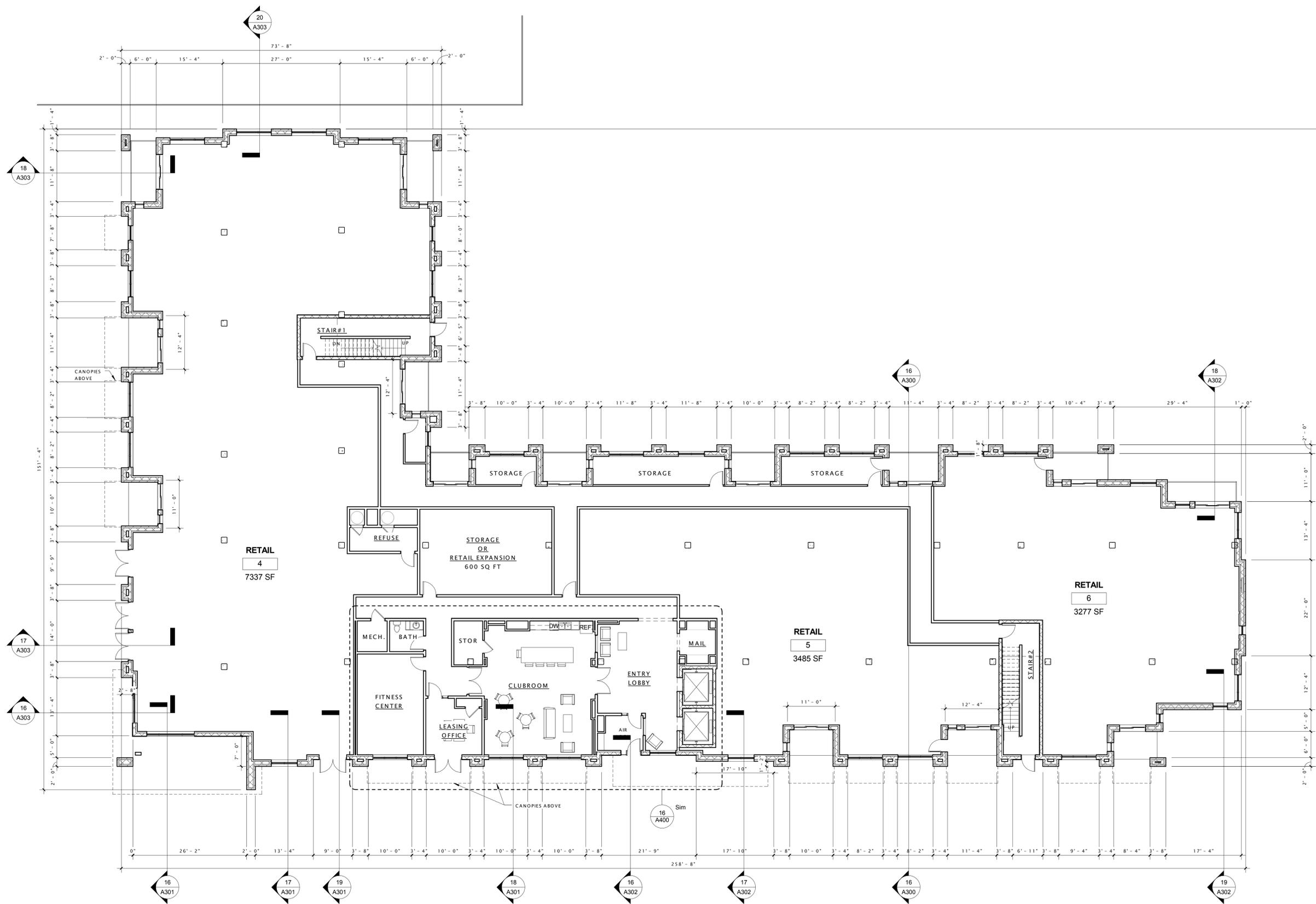
Revision Schedule		
Mark	Description	Date

SHEET TITLE

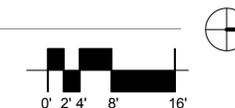
FIRST FLOOR PLAN -
RETAIL POTENTIAL

SHEET NUMBER

A101.1



16 FIRST FLOOR - RETAIL POTENTIAL
3/32" = 1'-0"



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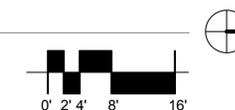
SECOND FLOOR PLAN

SHEET NUMBER

A102



16 SECOND FLOOR
3/32" = 1'-0"



DSI REAL ESTATE, INC.

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APARTMENTS

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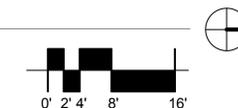
THIRD FLOOR PLAN

SHEET NUMBER

A103



16 THIRD FLOOR
3/32" = 1'-0"



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SHEET TITLE

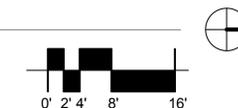
FOURTH FLOOR PLAN

SHEET NUMBER

A104



16 FOURTH FLOOR
3/32" = 1'-0"



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GRANDVIEW COMMONS APARTMENTS

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SHEET TITLE

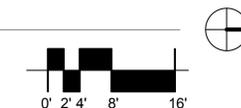
FIFTH FLOOR PLAN -
APARTMENTS OPTION

SHEET NUMBER

A105



16 FIFTH FLOOR APARTMENT OPTION
3/32" = 1'-0"



DSI REAL ESTATE, INC.

GRANDVIEW COMMONS APARTMENTS

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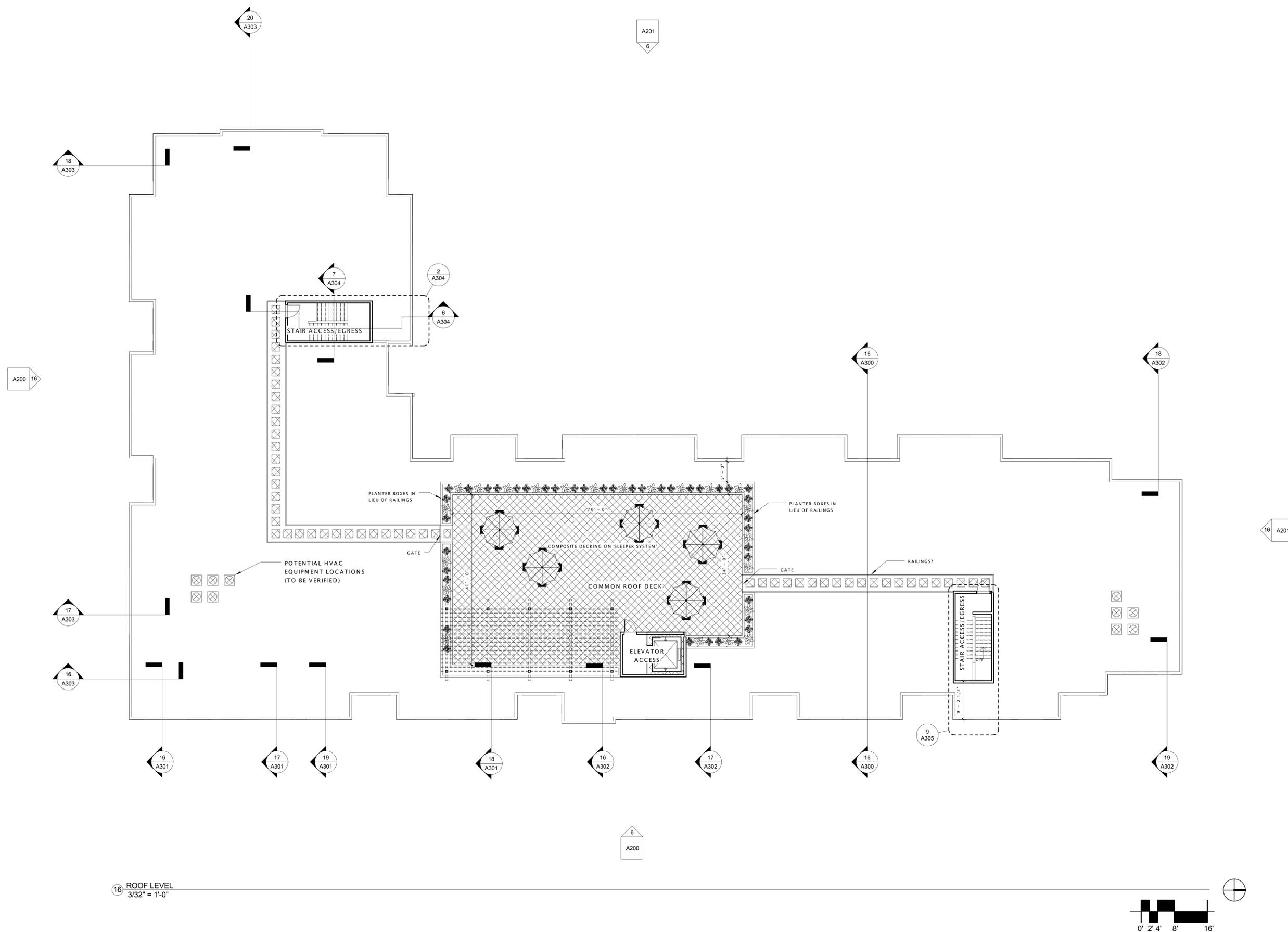
Revision Schedule		
Mark	Description	Date

SHEET TITLE

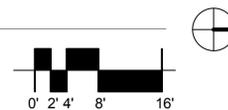
ROOF PLAN

SHEET NUMBER

A106



16 ROOF LEVEL
3/32" = 1'-0"





Date: Dec 6, 2013

Visual Impact Lighting, LLC
1724 Industrial Drive
Green Bay WI 54302
Phone: (920) 437-2069
Fax: (920) 437-9140

Job Name
GRANDVIEW COMMONS
VISUAL13-59966
Madison WI

Bid Date
Dec 6, 2013

Submittal Date
Dec 6, 2013

Architect:
JLA Architects + Planners
2418 CROSSROADS DRIVE
MADISON WI 53718



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
VRB2-20L5KUV-**

Notes:

Type:

BL

VISUAL13-59966



KIM LIGHTING

VRB2 Round Bollard

Dual Function, Vandal-Resistant, Aluminum Shaft

revision 11/13/09 • vrb2.pdf

Type:

Job:

Catalog number:

Approvals:

Date:

Page: 1 of 2

VRB2	/	/	/
Fixture	Electrical Module	Luminaire Finish (includes top cap and shaft)	Option
See page 2			

Specifications

VRB Models

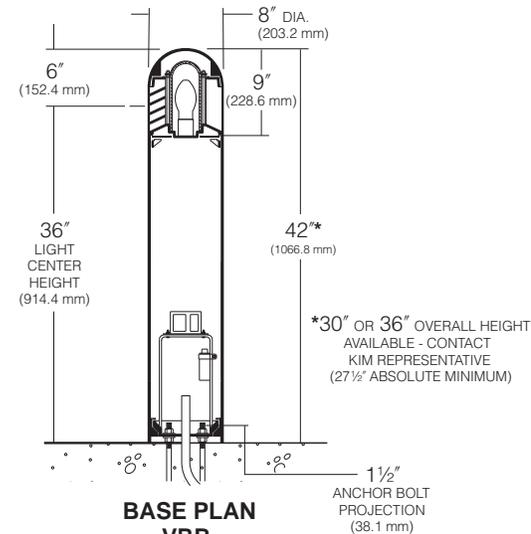
70 to 100 watt

Medium Base Lamps

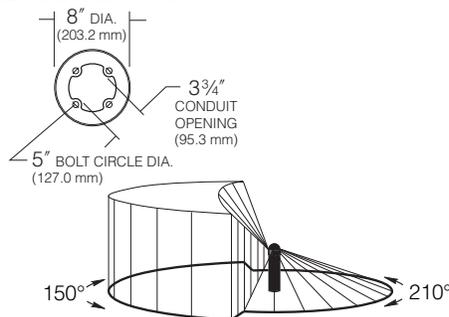
42 watt Compact Fluorescent

VRB2 - Dual Function Luminaire (Aluminum Shaft)

Maximum weight: 30 lb



BASE PLAN
VRB
ALUMINUM SHAFT



Domed Top Cap: Die-cast aluminum secured to louvers by concealed allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: One-piece sand-cast with horizontal and vertical blades. Horizontal louvers shall provide 210° of downlighting with source cutoff above horizontal. Vertical louvers shall provide 150° of non-cutoff lighting. Horizontal louver blades shall have a 1 3/4" depth with a 65° upward pitch from horizontal. Vertical louver blades shall have a 1 3/4" depth with a 30° spacing. Louver assembly shall be secured to shaft by four internal tie rods.

Lamp Enclosure: One-piece tempered molded glass with internal flutes and full gasketing at bottom edge.

Socket: Porcelain medium base socket rated 4KV for HID and incandescent. Plastic socket for Fluorescent.

Fixture Head: Allows flow-through ventilation around and above the lamp enclosure.

Shaft: One-piece extruded aluminum, .125" wall thickness with heavy cast aluminum twist-lock anchor base concealed within the shaft. Concealed set screws shall lock shaft onto the cast anchor base.

Ballast: Factory mounted to rigid harness attached to the anchor base. Wiring shall be supplied from the socket for field connection to the prewired ballast components. **HID:** High power factor with starting temperatures of -20°F. for PMH and -40°F. for HPS lamp modes. **26W, 32W, 42W Fluorescent:** High power factor with starting temperature of 0°F.

Anchor Bolts: Four 3/8" x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local codes. Failure to do so may result in serious personal injury.

Listings and Ratings

UL cUL 1598 ¹	IP46 Rated	CE	25C Ambient
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¹Suitable for wet locations

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
VRB2-20L5KUV-**

Notes:

Type:

BL

VISUAL13-59966



KIM LIGHTING

VRB2 Round Bollard

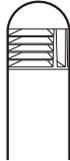
Dual Function, Vandal-Resistant, Aluminum Shaft

revision 11/13/09 • vrb2.pdf

Type:

Job:

Page: 2 of 2



Standard and Optional Features

Fixture

Cat. No. **VRB2** Dual Function, Aluminum Shaft, Domed Top

Electrical Module

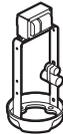
PMH = Pulse Start
Metal Halide

HPS = High Pressure
Sodium

PL = Compact Fluorescent

Lamp Watts Lamp Type Line Volts

100 HPS 120



NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

Cat. Nos. for Electrical Modules available:

	<input type="checkbox"/> 70PMH120	<input type="checkbox"/> 100PMH120	<input type="checkbox"/> 70HPS120	<input type="checkbox"/> 100HPS120
	<input type="checkbox"/> 70PMH208	<input type="checkbox"/> 100PMH208	<input type="checkbox"/> 70HPS208	<input type="checkbox"/> 100HPS208
	<input type="checkbox"/> 70PMH240	<input type="checkbox"/> 100PMH240	<input type="checkbox"/> 70HPS240	<input type="checkbox"/> 100HPS240
	<input type="checkbox"/> 70PMH277	<input type="checkbox"/> 100PMH277	<input type="checkbox"/> 70HPS277	<input type="checkbox"/> 100HPS277
	<input type="checkbox"/> 70PMH347	<input type="checkbox"/> 100PMH347	<input type="checkbox"/> 70HPS347	<input type="checkbox"/> 100HPS347
Lamp	E-17, Coated	E-17, Coated	ED-17, Coated	ED-17, Coated
Socket	Medium Base	Medium Base	Medium Base	Medium Base
ANSI Ballast Type	M-98	M-90	S-62	S-54

42PL¹

Lamp	Compact Fluor.
Socket	GX24q-4

¹**42PL** Operates one 26, 32, or 42 watt lamp at 120 thru 277 volts (50-60 Hz).

NOTE: Coated lamps are recommended.

Finish

Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture and shaft.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color²
Cat. No.: **BL** **DB** **LG** **SG** **PS** **WH** **CC**

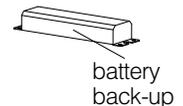
NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White.

²Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____

Optional Emergency Battery Back-up

Cat. No. **EM**
 No Option

Internal battery pack provides 90 minutes of supplemental light at 23% of initial lamp lumens for 26, 32, or 42 watt compact fluorescent lamps.

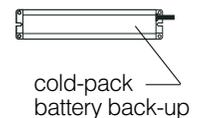


Cold-Pack Emergency Battery Pack

Cat. No. **EM-CP**
 No Option

The EM-CP option is a temperature controlled ballast designed to maintain operation without interruption within a range of hi/low ambient temperatures, -20°C to +55°C.

Internal Cold-Pack emergency battery pack provides up to 90 minutes of supplemental light. See following table for max. lumens output by lamps.



Lamp (4-Pin)	1 lamp lumens
42W	750
32W	575
26W	450



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
LF6LED5**

Notes:

Type:

D

VISUAL13-59966



6" LED Downlight
LF6LED
120V-277V
0-10V Dimming

DATE: _____ TYPE: _____
FIRM NAME: _____
PROJECT: _____



Ceiling Cutout: 6 1/4"
Maximum Ceiling Thickness 1 1/4"
For conversion to millimeters,
multiply inches by 25.4
Not to Scale

APPLICATIONS:

Liteframe LF6LED is a 6" commercial grade LED downlight that utilizes remote phosphor technology to obtain color consistency, energy savings, and low maintenance costs. 50,000 hours minimum life up to 40°C (104° F) in open plenum applications.

HOUSING:

One-piece 22 gauge non-corrosive steel platform. Pre-wired J-box with snap-on cover for easy access. Snap-in connection from driver compartment allows easy installation of light engine/trim assembly without tools above or below the ceiling and can be upgraded to accommodate technology improvements. Approved for 8 (4 in/4 out) No. 12 AWG conductors rated for 90°C through wiring.

REFLECTOR:

High purity aluminum, Alzak, iridescence suppressed, semi-diffuse reflector. Self-trim standard. Painted white self-trim (WT) available as option.

LED LIGHT ENGINE:

The LF6LED uses the Philips Fortimo DUM LED Module with remote phosphor technology. This technology provides controlled color consistency from fixture to fixture. The system is designed for optimal life and lumen maintenance (50,000 hours at 70% lumen maintenance). Both reflector and light engine assembly are mechanically retained to housing. The light engine comes standard with 80 CRI in all Kelvin temperatures.

LED DRIVER:

The LF6LED utilizes the Philips Fortimo LED Driver specifically designed to optimize efficiency of the Fortimo DLM Module. Driver is designed to match the 50,000 hour minimum life expectancy of the system. Meets UL Class 2, inherent short circuit protection, self limited, overload protected. If critical temperatures are reached on driver or LED module, integrated thermal feedback loop will gradually reduce current to protect system life. Driver is universal 120V-277V.

DIMMING:

Comes standard with 0-10V dimming capability. Flicker-free dimming to 10%. See list of compatible dimmers on pg. 4.

INSTALLATION:

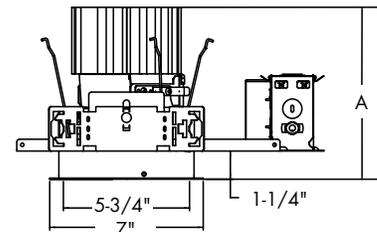
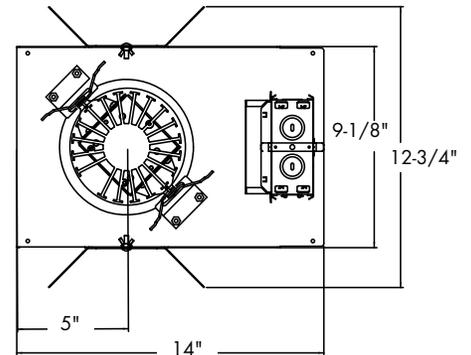
Light commercial bar hangers included. Universal adjustable mounting brackets also accept 1/2" EMT conduit or 1 1/2" or 3/4" lathing channel (by others) or Prescolite 24" bar hangers (B24 or B6). Wall wash orientation may be field adjusted in 90° increments to housing.

CERTIFICATIONS:

CSA certified to US and Canadian safety standards. Suitable for wet locations. EM is damp locations CSA US only. Approved for through wiring. Non-IC rated.

WARRANTY:

5 year warranty. See www.prescolite.com for details. Warranty for EM Battery handled directly through battery manufacturer.



	A
6LFLED5	6-3/4"
6LFLED7	7-3/4"

* See page 4 for WW line art
* See page 5 for EM line art

Order housing, reflector, and accessories separately

CATALOG NUMBER:

EXAMPLE: LF6LED - 6LFLED5 30K

HOUSING	VOLTAGE	OPTIONS	TRIM	LED COLOR TEMP	REF. FINISH	REF. COLOR	REF. OPTIONS	ACCESSORIES
<input type="checkbox"/> LF6LED 6" High Efficacy LED Housing with 0-10V Dimming to 10%	<input type="checkbox"/> Blank 120V-277V	<input type="checkbox"/> WW ^{2,7} Wall Wash <input type="checkbox"/> EM ^{3,6} Bodine BSL17C-C2 Battery Pack with integral test switch and indicator light	<input type="checkbox"/> 6LFLED5 ⁴ 6" Open Reflector/ Light Engine Assembly, 1100 lumen module <input type="checkbox"/> 6LFLED7 ⁵ 6" Open Reflector/ Light Engine Assembly, 2000 lumen module	<input type="checkbox"/> 30K 3000 Kelvin, 80 CRI <input type="checkbox"/> 35K 3500 Kelvin, 80 CRI <input type="checkbox"/> 40K 4000 Kelvin, 80 CRI	<input type="checkbox"/> Blank Alzak Semi-Diffuse	<input type="checkbox"/> Blank <input type="checkbox"/> CG Champagne Gold Alzak <input type="checkbox"/> BL Black Alzak <input type="checkbox"/> WE Wheat Alzak <input type="checkbox"/> LW Light Wheat Alzak <input type="checkbox"/> PW Pewter Alzak <input type="checkbox"/> WH ¹ White Paint	<input type="checkbox"/> WT White Trim <input type="checkbox"/> TRG Trim Ring Gasket (factory installed) <input type="checkbox"/> WW ^{2,7} Wall Wash <input type="checkbox"/> EM ^{3,6} Bodine BSL17C-C2 Battery Pack with integral test switch and indicator light	<input type="checkbox"/> B24 Set of two(2) 24" bar hangers for T-bar ceilings <input type="checkbox"/> B6 Set of two (2) bar hangers for ceiling joist up to 24" centers <input type="checkbox"/> LFSC6 ^{3,7} 6" reflector screw cover <input type="checkbox"/> LFSC6 EM ³ 6" reflector screw cover for EM <input type="checkbox"/> LG15 ^{7,8} Dual-Lite 100VA Surface Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG1R ^{7,8} Dual-Lite 100VA Recessed Wall Mount LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG1T ^{7,8} Dual-Lite 100VA Recessed Ceiling T-Grid LiteGear Emergency Lighting Inverter <input type="checkbox"/> LG25 ^{7,8} Dual-Lite 250 VA Surface Wall Mount LiteGear Emergency Lighting Inverter

¹ Requires WT option
² WW option must be selected on both the housing and trim
³ Not compatible with WW
⁴ Philips Fortimo 1100 Lm LED module
⁵ Philips Fortimo 2000 Lm LED module
⁶ EM must be selected on both the housing and trim.
⁷ Not compatible with EM
⁸ See LFLED & LiteGear compatibility Matrix on page 5



In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product.
Web: www.prescolite.com • Tech Support: (888) 777-4832

LFR-LED-001



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
LF6LED5**

Notes:

Type:

D

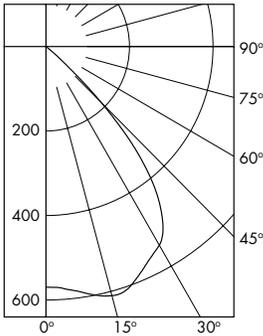
VISUAL13-59966

PHOTOMETRIC DATA

LifeFrame - 6" LF6LED Downlight

DRIVER DATA	LF6LED5 30K	LF6LED5 35K	LF6LED5 40K	LF6LED7 30K	LF6LED7 35K	LF6LED7 40K
Input Voltage	120-277V	120-277V	120-277V	120-277V	120-277V	120-277V
Input Frequency	50/60 Hz					
Input Current	0.146A (120v) 0.063 (277v)	0.156A (120v) 0.067 (277v)	0.137A (120v) 0.059 (277v)	0.146A (120v) 0.063 (277v)	0.156A (120v) 0.067 (277v)	0.137A (120v) 0.059 (277v)
Input Power	17.3W	18.5W	16.3W	36W	34W	33W
Constant Current Output	200-700mA	200-700mA	200-700mA	200-700mA	200-700mA	200-700mA
Power Factor	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90	≥0.90
THD	<20%	<20%	<20%	<20%	<20%	<20%
EMI Filtering	FCC 47CFR Part 15, Class A					
Operating Temperature	-20°C to 55°C					
Dimming	0-10V	0-10V	0-10V	0-10V	0-10V	0-10V
Over-voltage, over-current, short-circuit protected						

LF6LED 6LFLED5 30K
LED Light Engine: 3000K, 80 CRI
System Waitage: 17.3W
Fixture Delivered Lumens: 890
Fixture Efficacy: 51
Spacing Criteria: 1.2



Test No. 3264

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTION

DEG	CANDELA	LUMENS
0	541	
5	548	53
15	580	164
25	540	250
35	459	283
45	177	134
55	3	5
65	0	1
75	0	0
85	0	0
90	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	466	52.4
0-40	749	84.2
0-60	889	99.9
0-90	890	100.0
90-180	0	0.0
0-180	890	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

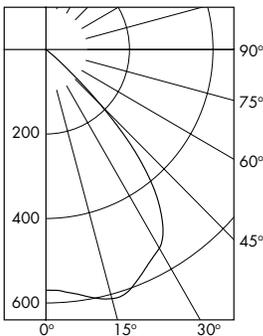
Angle in Vertical	Average - 0°
45°	14936
55°	312
65°	0
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%	70%	50%	30%	10%												
	20% Effective Floor Cavity Reflectance																
% Wall Reflectance																	
	70	50	30	10	50	30	10	50	30	10							
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	82	89	85	81	87	83	80	84	81	79
4	94	86	80	75	92	85	79	74	82	77	74	80	76	73	78	75	72
5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66
6	83	73	66	62	82	73	66	61	71	65	61	69	64	61	68	64	60
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55
8	74	63	56	52	72	62	56	51	61	55	51	60	55	51	59	54	51
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47
10	66	55	48	44	64	54	48	44	53	48	44	52	47	43	52	47	43

LF6LED 6LFLED5 30K Test No. 3264

LF6LED 6LFLED5 35K
LED Light Engine: 3500K, 80 CRI
System Waitage: 18.5W
Fixture Delivered Lumens: 916
Fixture Efficacy: 50
Spacing Criteria: 1.2



Test No. 3332

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

CANDELA DISTRIBUTION

DEG	CANDELA	LUMENS
0	573	
5	584	56
15	606	170
25	562	259
35	469	289
45	179	136
55	3	4
65	1	1
75	0	0
85	0	0
90	0	0

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	486	53.0
0-40	775	84.6
0-60	915	99.9
0-90	916	100.0
90-180	0	0.0
0-180	916	100.0

LUMINANCE DATA IN CANDELA/ SQ. METER

Angle in Vertical	Average -
45°	15105
55°	312
65°	141
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%	70%	50%	30%	10%												
	20% Effective Floor Cavity Reflectance																
% Wall Reflectance																	
	70	50	30	10	50	30	10	50	30	10							
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72
5	89	79	73	68	87	78	72	68	77	71	67	75	70	66	73	69	66
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55
8	74	63	56	52	73	63	56	52	61	55	51	60	55	51	59	55	51
9	70	59	52	48	68	58	52	48	57	52	47	56	51	47	55	51	47
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44

LF6LED 6LFLED5 35K Test No. 3332





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
LF6LED5**

Notes:

Type:

D

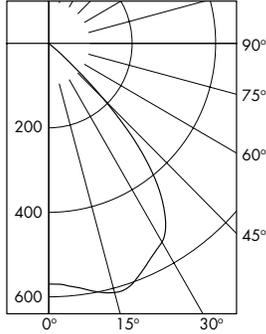
VISUAL13-59966

PHOTOMETRIC DATA

LifeFrame - 6" LF6LED Downlight

LF6LED 6LFLED5 40K

LED Light Engine: 4000K, 80 CRI
System Wattage: 16.3W
Fixture Delivered Lumens: 911
Fixture Efficacy: 55
Spacing Criteria: 1.2



CANDELA DISTRIBUTION			
DEG	CANDELA	LUMENS	
0	569		
5	580	56	
15	602	169	
25	560	258	
35	467	288	
45	178	135	
55	3	4	
65	1	0	
75	0	0	
85	0	0	
90	0	0	

Test No. 3333

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	483	53.0
0-40	771	84.6
0-60	911	99.9
0-90	911	100.0
90-180	0	0.0
0-180	911	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average -
45°	15021
55°	312
65°	141
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

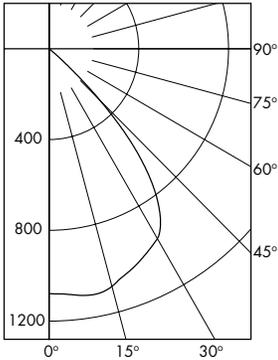
Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%		70%		50%		30%		10%								
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94
2	107	101	97	93	104	100	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72
5	89	79	73	68	87	78	72	68	77	71	67	75	70	67	73	69	66
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51
9	70	59	52	48	68	58	52	48	57	52	48	56	51	47	55	51	47
10	66	55	48	44	65	54	48	44	54	48	44	53	48	44	52	47	44

LF6LED 6LFLED5 40K

Test No. 3333

LF6LED 6LFLED7 35K

LED Light Engine: 3500K, 80 CRI
System Wattage: 32.4W
Fixture Delivered Lumens: 1656
Fixture Efficacy: 50
Spacing Criteria: 1.2



CANDELA DISTRIBUTION			
DEG	CANDELA	LUMENS	
0	1079		
5	1087	104	
15	1084	305	
25	1006	465	
35	855	526	
45	322	246	
55	6	8	
65	2	1	
75	0	1	
85	0	0	
90	0	0	

Test No. 3678

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	874	52.8
0-40	1401	84.6
0-60	1654	99.9
0-90	1656	100.0
90-180	0	0.0
0-180	1656	100.0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	Average - 0°
45°	24955
55°	573
65°	259
75°	0
85°	0

COEFFICIENTS OF UTILIZATION Zonal Cavity Method

Room Cavity Ratio	% Effective Floor Cavity Reflectance																
	80%		70%		50%		30%		10%								
	20% Effective Floor Cavity Reflectance																
	% Wall Reflectance																
	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79
4	94	86	80	75	92	85	79	75	83	78	74	80	76	73	79	75	72
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55
8	74	63	56	52	73	63	56	52	61	56	51	60	55	51	59	55	51
9	70	59	52	48	68	58	52	48	57	51	47	56	51	47	55	51	47
10	66	55	48	44	65	54	48	44	54	48	44	53	48	44	52	47	44

LF6LED 6LFLED7 35K

Test No. 3678





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
LF6LED5**

Notes:

Type:

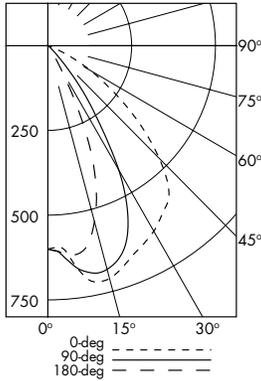
D

VISUAL13-59966

PHOTOMETRIC DATA

LiteFrame - 6" LF6LED Wall Wash Downlight

LF6LEDWW 6LFLED5 35K WW
LED Light Engine: 3500K, 80 CRI
System Wattage: 18.5W
Fixture Delivered Lumens: 830
Fixture Efficacy: 46



CANDELA DISTRIBUTION

DEG	0.0	90.0	180.0
0	600	600	600
5	608	632	619
15	711	683	537
25	656	566	235
35	599	243	19
45	470	35	4
55	243	4	1
65	65	1	0
75	1	1	0
85	0	0	0
90	0	0	0

LUMINANCE DATA IN CANDELA/SQ. METER

Angle in Vertical	0 DEG	90 DEG	180 DEG
45°	34598	675	338
55°	19974	104	0
65°	3530	0	0
75°	0	0	0
85°	0	0	0

				MULTIPLE UNITS	
1'	2'	3'	4'	UNITS ON 3' CENTER	UNITS ON 4' CENTER

**3' DISTANCE FIXTURE MOUNTED OUT FROM WALLS
FOOTCANDELA DISTRIBUTION ON WALL SURFACE**

DISTANCE FROM CEILING IN FEET	1'				2'				3'				4'				
	1	1	0	0	0	0	1	0	1	1	0	1	1	0	1	1	0
2	14	10	2	0	0	14	11	14	14	4	14	14	4	14	14	4	14
3	19	15	8	2	0	20	23	20	19	15	19	19	15	19	19	15	19
4	14	13	9	4	1	18	22	18	15	17	15	15	17	15	15	17	15
5	10	9	7	5	2	14	17	14	12	15	12	12	15	12	12	15	12
6	6	6	6	4	3	11	12	11	9	11	9	9	11	9	9	11	9
7	5	4	4	3	3	8	9	8	7	8	7	7	8	7	7	8	7
8	3	3	3	2	2	6	6	6	5	6	5	5	6	5	5	6	5
9	2	2	2	2	2	5	5	5	4	5	4	4	5	4	4	5	4

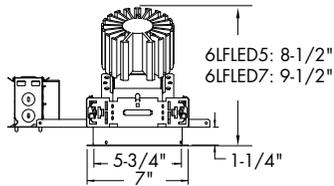
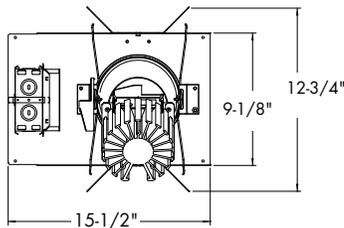
LF6LED WW

Test No. 3483

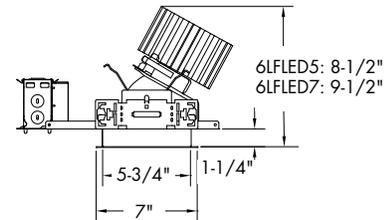
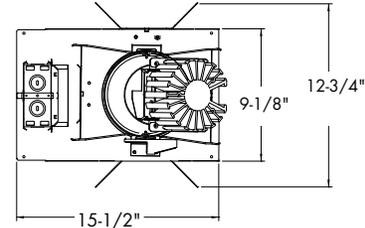
Test No. 3483

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

STANDARD WALL WASH ORIENTATION



FIELD CONFIGURABLE WALL WASH ORIENTATION



DIMMING COMPATIBILITY TABLE

Control Manufacturer	Wallbox Dimmer	Power Booster Available
Douglas Lighting Controls	WPC 5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V) Tap Glide Heatsink TGH1500fam120 (120V) Oasis DA2000FAMU (120/277V)	
Honeywell, Inc.	EL731A1019 and EL7315A1009	EL7305A1010
HUNT Dimming	Preset Slide: PS-010-IV-120V and PS-010-WH-120V Preset Slide: PS-010-3W-IV-120V and PS-010-3W-WH-120V Preset Slide: PS-010-IV-277V and PS-010-WH-277V Preset Slide: PS-010-3W-IV-277V and PS-010-3W-WH-277V Preset Slide, controls FD-010; PS-1FC-010-IV- and PS-1FC-010-32-WH-120/277V Preset Slide, controls FD-010; PS-1FC-010-32-IV- and PS-1FC-010-3W-WH-120/277V Remoted mounted unit: FD-010120V and FD-010-277V	
Lehigh Electric Products Co.	Solitaire	PBX
Leviton Lighting Controls Div.	Leviton Centura Fluorescent Control System IllumaTech™ IP7 Series	CN100 PE300
Lutron Electronics Co., Inc.	Visit www.lutron.com/advance for the latest control information and selection	
PDM Electrical products	WPC-5721	
Starfield Controls	TR61 with DALI Interface port	RT03 DALInet Router
The Watt Stopper, Inc.	LS-4 used with LCD-101 and LCD-103	



Web: www.prescolite.com • Tech Support: (888) 777-4832
701 Millennium Boulevard • Greenville, SC 29607 U.S.A. • Phone (864) 678-1000
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PHOTOMETRIC DATA

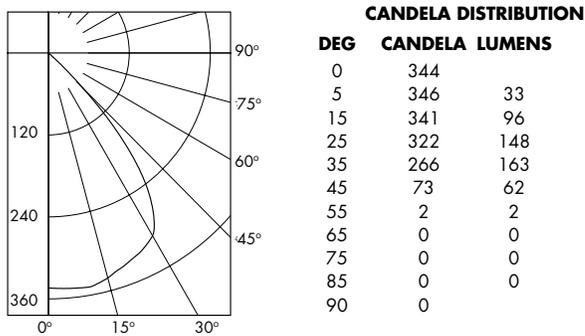
LiteFrame - 6" LF6LED Downlight Integral EM & Central Inverters

Integral EM

Prescolite provides photometric performance of the LiteFrame LED when operating on integral EM back up power as a tool to approximate light levels in back-up battery operation. This should not be deemed a guarantee of performance. The LiteFrame LED is CSA listed as an emergency fixture for applications not to exceed 16ft.

LF6LEDEM 6LFLED5 35K EM

LED Light Engine: 3500K, 80 CRI
 Fixture Delivered Lumens: 505

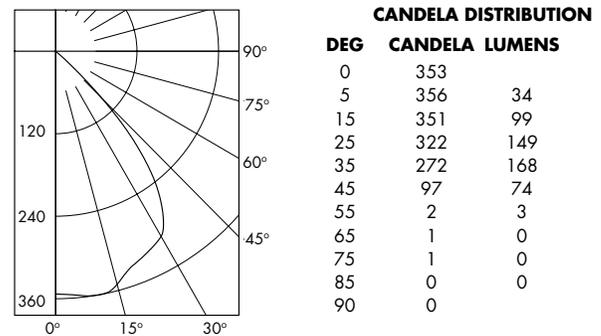


Test No. 3912

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

LF6LEDEM 6LFLED7 35K EM

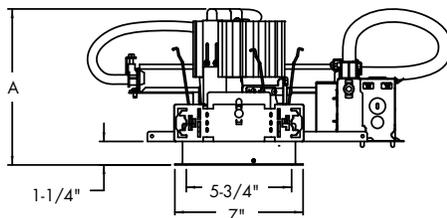
LED Light Engine: 3500K, 80 CRI
 Fixture Delivered Lumens: 527



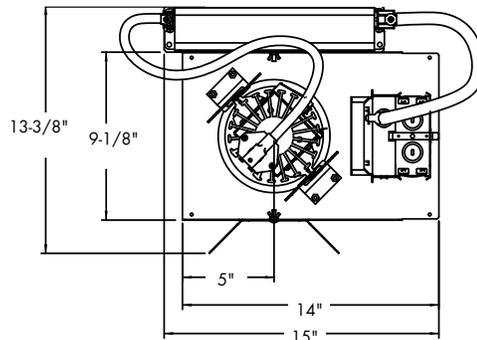
Test No. 3913

Tested at 25°C Ambient in accordance to IESNA LM-79-2008

EM DIMENSIONS



LIGHT ENGINE	A
6LFLED5EM	7-1/2"
6LFLED7EM	8-1/2"



Central Inverters

For fixture full light output in back-up mode, Prescolite and Dual-lite have jointly tested the LiteFrame LED with the 100 (LG1) and 250 (LG2) VA LiteGear inverters. Below is a chart that shows the maximum number of LiteFrame LED products that can be wired to a single LiteGear. (Note: Not for use with integral EM option). For more information on LiteGear go to www.dual-lite.com

LiteFrame LED & Dual-Lite LiteGear Compatibility Matrix		
Maximum Number of LiteFrame LED Downlights that can be wired to a single LiteGear Inverter.		
	LED5	LED7
LG1	3	2
LG2	8	5



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CFL1-27L3KUV-**

Notes:

Type:

F

VISUAL13-59966

**KIM LIGHTING****CFL**

Compact Floodlights
revision 3/4/13 • kl_cfl_spec.pdf

Type:**Job:****Fixture Catalog number:**

____ / ____ / ____
Fixture Electrical Module Finish

See page 2

Fixture Options:

Ordered Separately from Fixture
See pages 3

Mounting Options:

Ordered Separately from Fixture
See pages 4-6

Approvals:**Date:****Page: 1 of 6**

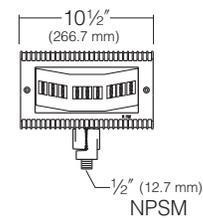
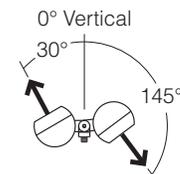
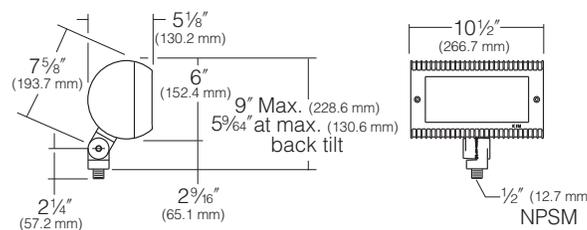
Specifications

Dimensions

CFL Models

50 to 70 watt HID
Medium Base Lamps
13 to 42 watt Compact Fluorescent
60 watt Incandescent
150 watt Halogen
27 LED

Maximum weight: 13lb



HUBBELL LIGHTING, INC.

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum in a cylindrical shape with integral cooling fins over the entire length, and .100" minimum wall thickness. One-piece silicone gasket between housing and lens frame.

Lens Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum with integral cooling fins, .100" minimum wall thickness, mates with housing to create a continuous cylindrical shape. 5/32" thick clear tempered glass lens is sealed to the lens frame by a one-piece stamped silicone gasket. Lens frame secures to housing by two stainless steel recessed captive allen-head screws.

Swivel: Die-cast aluminum with integral locking teeth providing 6° adjustment intervals and 1/2" NPSM plus solid brass locknut for mounting. Clear anodized prior to titanated zirconium conversion coating for added corrosion resistance.

Fasteners: Stainless steel, recessed captive allen-head screws.

Reflector: Specular Alzak® aluminum optical components mounted to aluminum frame.

Socket: 4KV porcelain medium base (T-10 Incandescent and HID); T-4 Mini-can base (Halogen); 13w GX23-2 2-pin base, 42W GX24q-3 4-pin base (Fluorescent).

Ballast: All electrical components are UL and CSA recognized with leads extending out of the swivel splice compartment. Normal power factor ballast rated -32°F starting (13 watt Twin Tube Fluorescent); High power factor ballast rated 0°F starting (42 watt Triple Tube Fluorescent); Reactor - High power factor with starting temperature of -20°F. for PMH lamp modes. For PMH/120 volt, a step-up transformer is provided.

LED: Three 9 LED modules with a total of 27 LEDs configured in a rectangular array comprised together as one module. Available in 4000K, 5000K and 580 nm Amber. Emitters are directly attached to the electronic driver.

LED Driver: Universal voltage, 120 through 277V electronic driver. -40°F. starting temperature. All drivers are Underwriters Laboratories recognized.

Finish: TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a titanated zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray, Platinum Silver, or White. Custom colors are available.

CAUTION: Fixtures must be grounded in accordance with national, state, and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings

UL cUL 1598 ¹	CE	IP66 Rated	25C Ambient
--------------------------	----	------------	-------------

¹Suitable for wet locations.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.



Job Name:
 GRANDVIEW COMMONS
 Architect: JLA Architects + Planners
 (MADISON)

Catalog Number:
 CFL1-27L3KUV-**

Notes:

Type:

F

VISUAL13-59966

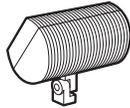


CFL
 Compact Floodlights
 revision 3/4/13 • kl_cfl_spec.pdf

Type:

Job:

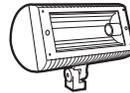
Page: 2 of 6



Standard Features

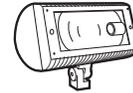
Fixture
 Cat. No. designates **CFL** fixture and beam pattern.

Single fixture EPA:
 0.3 (45° tilt)
 0.5 (Face on)



Beam Pattern:
 Cat. No.:

Wide Flood
 CFL1



Narrow Spot
 CFL6

Electrical Module
PMH = Pulse Start Metal Halide
INC = Incandescent
HAL = Halogen
PL = Compact Fluorescent
LED = Light Emitting Diodes

Cat. Nos. for Electrical Modules available:

Pulse Start Metal Halide		
	<input type="checkbox"/> 50PMH120	<input type="checkbox"/> 70PMH120
	<input type="checkbox"/> 50PMH277	<input type="checkbox"/> 70PMH277
Lamp	E-17, Clear	E-17, Clear
Socket	Medium Base	Medium Base
ANSI Ballast	M-110	M-98

Incandescent		Halogen	
	<input type="checkbox"/> 60INC120		<input type="checkbox"/> 150HAL120
Lamp	T-10, Coated		T-4, Clear
Socket	Medium Base		Mini-can Base

Lamp Watts	Lamp Type	Line Volts
50	PMH	277

Compact Fluorescent			LED	
	<input type="checkbox"/> 13PL120 ¹	<input type="checkbox"/> 42PL120 ¹	<input type="checkbox"/> 27L2KUV ^{1,2,3} (32.4W)	
	<input type="checkbox"/> 13PL277 ¹	<input type="checkbox"/> 42PL208 ¹	<input checked="" type="checkbox"/> 27L3KUV ^{1,2,3} (32.4W)	
		<input type="checkbox"/> 42PL240 ¹	<input type="checkbox"/> 27L5KUV ^{1,2,3} (32.4W)	
		<input type="checkbox"/> 42PL277 ¹		
Lamp	Twin Tube, Coated	Triple Tube, Coated	LED	
Socket	Gx23-2 2-pin Base	Gx24q-3 4-pin Base	N/A	

¹For CFL1 only.
²27L = 27 LEDs, 2K = 580 nm Amber, 3K = 3000 Kelvin, 5K = 5000 Kelvin,
 UV = Universal voltage 120 through 277V electronic driver
³For 32.4W, Max Amps. are .027 for 120V, .016 for 208V, .014 for 240V, .012 for 277V.
42PL operates 26, 32, and 42 watt lamps at 120 thru 277 volts (50-60 Hz).

Finish
 Super TGIC powder coat paint over a titanated zirconium conversion coating.

Color: Black Dark Bronze Light Gray Stealth Gray™ Platinum Silver White Custom Color²
 Cat. No.: **BL** **DB** **LG** **SG** **PS** **WH** **CC**

²Custom colors subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CFL1-27L3KUV-**

Notes:

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F

VISUAL13-59966



KIM LIGHTING

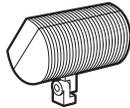
CFL

Compact Floodlights
revision 3/4/13 • kl_cfl_spec.pdf

Type:

Job:

Page: 3 of 6



Fixture Options

Ordered Separately from Fixture

Barn Doors

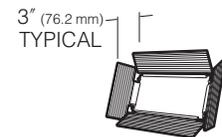
Cat. No. (see right)
 No Option

Extruded aluminum, fully adjustable doors with anti-reflection baffles. Individually swiveled and secured on a stainless steel frame. Easily attaches to pre-drilled holes in the lens frame with stainless steel screws. Provides beam and glare control.

CAUTION: Not recommended for ground mounted fixtures in vandal prone areas.

Cat. No.

- BD-CFL/BL** Black
- BD-CFL/DB** Dark Bronze
- BD-CFL/LG** Light Gray
- BD-CFL/SG** Stealth Gray™
- BD-CFL/PS** Platinum Silver
- BD-CFL/WH** White



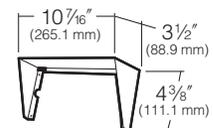
Fixed Hood

Cat. No. (see right)
 No Option

Formed .062 thick aluminum. Easily attaches to pre-drilled holes in the lens frame with stainless steel screws. Provides moderate shielding for glare control.

Cat. No.

- FH-CFL/BL** Black
- FH-CFL/DB** Dark Bronze
- FH-CFL/LG** Light Gray
- FH-CFL/SG** Stealth Gray™
- FH-CFL/PS** Platinum Silver
- FH-CFL/WH** White



Full Shield

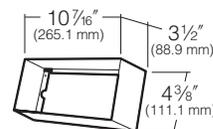
Cat. No. (see right)
 No Option

Formed .062 thick aluminum. Easily attaches to pre-drilled holes in the lens frame with stainless steel screws. Provides complete shielding for glare control.

CAUTION: Do not use in locations where leaves and trash can collect inside shield.

Cat. No.

- FS-CFL/BL** Black
- FS-CFL/DB** Dark Bronze
- FS-CFL/LG** Light Gray
- FS-CFL/SG** Stealth Gray™
- FS-CFL/PS** Platinum Silver
- FS-CFL/WH** White





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CFL1-27L3KUV-**

Notes:

Type:

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VISUAL13-59966

**KIM LIGHTING****CFL**

Compact Floodlights
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Type:

Job:

Page: 4 of 6



Mounting Options

Ordered Separately from Fixture

Brass In-Grade Architectural Junction Box

Cat. No. (see right)
 No Option

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume.

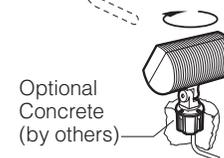
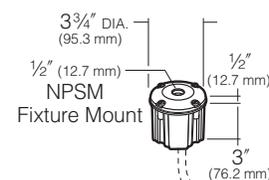
- JBR-2** (2) 1/2" NPT in bottom
- JBR-3** (2) 3/4" NPT in bottom
- JBR-21** (2) 1/2" NPT in sides, (2) 1/2" NPT in bottom
- JBR-24** (4) 1/2" NPT in sides, (2) 1/2" NPT in bottom

NOTE: All side taps provided with plugs.

Application Notes

- Creates a flush-mounted appearance.
- May be cast in concrete for increased stability.

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.



Brass In-grade Staked Junction Box

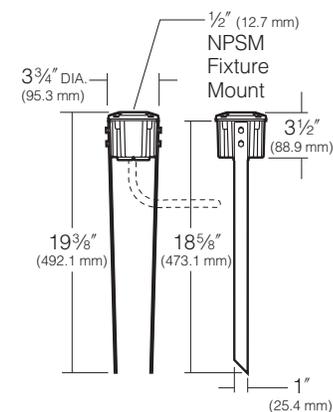
Cat. No.
 JBR30
 No Option

JBR30 BRASS IN-GRADE STAKED JUNCTION BOX

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume.

(2) 1/2" NPT in bottom with (2) 19" long brass stakes

NOTE: May also be used to hard mount low voltage fixtures.



Brass In-grade Staked Junction Box with Cord

Cat. No.
 JBR32
 No Option

JBR32 BRASS IN-GRADE STAKED JUNCTION BOX WITH CORD

Die-cast brass with 1/2" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume. 9' (SJTW-A) 3 wire cord and plug.

(2) 19" long brass stakes with 9' cord

Application Notes

- Creates a flush-mounted appearance.
- May be cast in concrete for increased stability.

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from junction box.





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CFL1-27L3KUV-**

Notes:

Type:

F

VISUAL13-59966

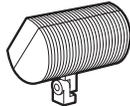
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Type:

Job:

Page: 5 of 6



Mounting Options

Ordered Separately from Fixture

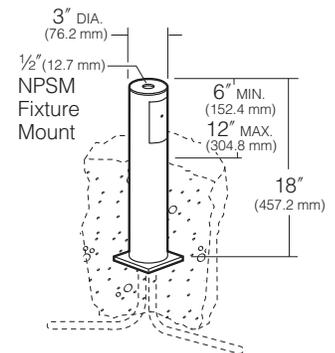
Stanchion Mount

Cat. No. (see right)
 No Option

3" O.D. by .188" wall cast low copper (<0.6% Cu) aluminum with 1/2" NPSM fixture mount and hand hole with flush cover. Internal set screw fixture lock accessible through hand hole. Internal ground lug supplied with installed lead.

Cat. No.

- SM18/BL** Black
- SM18/DB** Dark Bronze
- SM18/LG** Light Gray
- SM18/SG** Stealth Gray™
- SM18/PS** Platinum Silver
- SM18/WH** White

**Surface Mount**

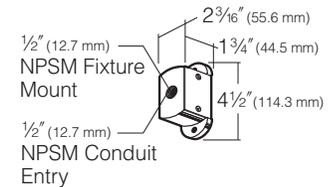
Cat. No. (see right)
 No Option

Cast low copper (<0.6% Cu) aluminum with mounting ears for wood screw attachment to tree or wood structure. 5.5 cu in. splice compartment with gasketed cover. 1/2" NPSM fixture mount and 1/2" NPSM conduit or cord seal entry.

NOTE: Surface mount can be connected to conduit or outdoor cord with a waterproof cord seal (by others).

Cat. No.

- J-27N/BL** Black
- J-27N/DB** Dark Bronze
- J-27N/LG** Light Gray
- J-27N/LG** Stealth Gray™
- J-27N/PS** Platinum Silver
- J-27N/WH** White

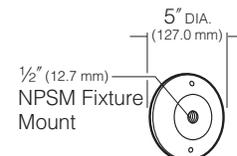
**Architectural Wall Mount**

Cat. No. (see right)
 No Option

Die-cast, low copper (<0.6% Cu) aluminum with 1/2" NPSM fixture mount. Internal set screw provided for locking position. Canopy attaches to stainless steel wall plate for mounting to any standard electrical outlet box.

Cat. No.

- JW/BL** Black
- JW/DB** Dark Bronze
- JW/LG** Light Gray
- JW/SG** Stealth Gray™
- JW/PS** Platinum Silver
- JW/WH** White





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CFL1-27L3KUV-**

Notes:

Type:

F

VISUAL13-59966

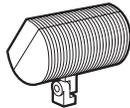
**KIM LIGHTING****CFL**

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Type:

Job:

Page: 6 of 6



Mounting Options

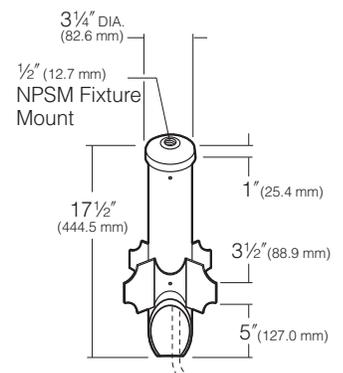
Ordered Separately from Fixture

PowerPost™ by
Engineered Products Co.

Cat. No. EP17
 No Option

PVC fixture molded in black with 1/2" NPT mount is corrosion free and UV resistant. Replaces EMT, conduit connectors and weatherproof boxes. 100% shatter resistant against denting and cracking. Angled bottom to eliminate cable congestion.

NOTE: Should be used with a UL listed fixture and grounding means (i.e., third wire) suitable for use in wet locations.



Architectural Junction Box

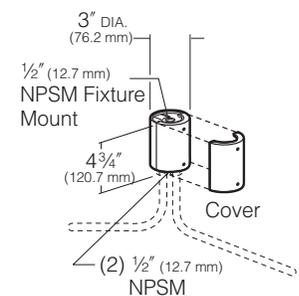
Cat. No. (see right)
 No Option

Die-cast, low copper (<0.6% Cu) anodized aluminum cylindrical body and matching cover with 1/2" NPSM fixture mount. Internal set screw provided for locking position. Two 1/2" NPSM in bottom, 17 cu in. internal volume.

CAUTION: Junction box must be installed high enough to avoid contact with soil or standing water.

Cat. No.

- JB1/BL Black
 JB1/DB Dark Bronze
 JB1/LG Light Gray
 JB1/SG Stealth Gray™
 JB1/PS Platinum Silver
 JB1/WH White

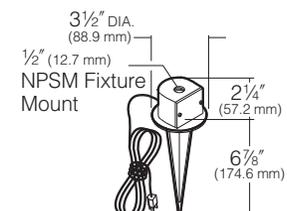


Portable Spear Mount

Cat. No. J-25N
 No Option

Cast iron with 1/2" NPSM fixture mount. Hot dip galvanized finish. 5.5 cu in. splice compartment. 9' (SJTW-A) 3 wire cord and plug.

NOTE: For use with incandescent, halogen, and fluorescent fixtures only.





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CL1S-A-48LU-5K-4-**
Notes:

Type:
OA
VISUAL13-59966

CIMARRON LED CL1S	Cat.#	Approvals	SPAULDING LIGHTING
	Job	Type	

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris
- Rugged lower die-cast aluminum heat sink accelerates thermal management and optimizes PCB and optical performance
- One piece die-cut silicone gasket with mechanically compressed stainless steel bezel ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Complements the Cimarron LED CL1 in the Hubbell Southwest series of outdoor fixtures
- Weight - 19 pounds, EPA - .45 ft²
- Features exclusive wiHUBB technology
 - Wireless system for On/Off and 0-10VDC dimming protocol with functional range of 10-100%
 - Programmable autonomous operation

Optics:

- Choice of 54 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions
- 3000K, 80 CRI; 4200K, 70 CRI; 5100K, 67 CRI

Electrical:

- Universal input voltage 120-277 VAC, 50/60 Hz
- Ambient operating temperature -30° C to 40° C
- Automatic thermal self-protection
- Drivers have greater than 90% power factor and less than 10% THD

- Optional 0-10VDC continuous dimming to 10%
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- LED electrical assembly, including PR devices, consumes no power in the "off" state
- Surge protection of 10KA 8/20 µSec wave; clamping voltage of 320V & surge rating of 273J

Installation:

- Quick-mount plate included for easy installation
- The decorative integral arm houses two stage hinge mechanism
- Safety latch holds luminaire door to prevent "free swing"
- Quick-connect wiring for simplified, hassle-free installation

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty, for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>

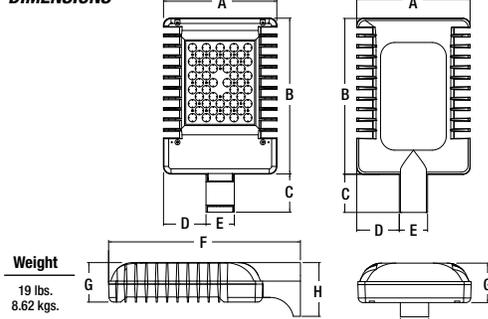
Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- DesignLights Consortium (DLC) qualified
- IDA approved
- IP66
- IES Progress Award Winner - 2013

PRODUCT IMAGE(S)



DIMENSIONS



Weight								
19 lbs. 8.62 kgs.	A	B	C	D	E	F	G	H
	12"	16.312"	4"	4.5"	3"	20.312"	4.13"	5.625"
	305mm	414mm	102mm	114mm	76mm	515mm	105mm	143mm

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION ORDERING EXAMPLE: CL1S-A-48LU-5K-3-DB-RPA3

CL1S - A - [] - [] - [] - [] - [] - []

SERIES	NO. OF LEADS	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1S Cimarron LED Pedestrian Scale	16L 16 High brightness LEDs 32L 32 High brightness LEDs 48L 48 High brightness LEDs	U³ Universal 120V-277V, 50/60 Hz 1¹ 120V 2¹ 208V 3¹ 240V 4¹ 277V 5 480V, 60 Hz F 347V, 60 Hz E⁴ 220V, 50 Hz	3K 3000K, 80 CRI 4K 4200K, 70 CRI 5K 5100K, 67 CRI	Leave blank for 700mA (standard)	BC⁵ Backlight control CD^{2,7} Continuous dimming F(X)^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) RPA3 3" Round pole adapter RPA4 4" Round pole adapter TB Terminal block WB Wall bracket WHB⁶ White LED bezel WIH^{2,8} In-fixture wireless control module PR(X)² NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6=347)
MOUNTING					
A	4" straight arm attached to housing complete with quick-mount plate				
DISTRIBUTION					
2	Type II				
3	Type III				
4	Type IV				
5M	Type V Medium				
5S	Type V Short				
5W	Type V Wide				
2L	Type II rotated left				
3L	Type III rotated left				
4L	Type IV rotated left				
2R	Type II rotated right				
3R	Type III rotated right				
4R	Type IV rotated right				
COLOR					
DB	Dark Bronze				
BL	Black				
WH	White				
GR	Gray				
PS	Platinum Silver				
RD	Red (premium color)				
FG	Forest Green (premium color)				
CC	Custom Color				
MOTION CONTROL OPTIONS					
SCO⁹	Motion sensor On/Off control, No light output when no motion detected				
SCP⁹	Programmable motion control, factory default is 50%				

Notes: 1 - Select only when using voltage specific options F, WIH
2 - WIH cannot be combined with CD or PR(X)
3 - Fuse option not available with U voltage
4 - Select F3 fusing option for 220V
5 - Not recommended for Type 5S, 5M or 5W
6 - Order to match larger Cimarron CL1 with white bezels
7 - Dimming leads accessible for connection to third party dimming systems
8 - Only available with 120V or 277V input
9 - 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one remote control to program dimming settings, consult factory for details



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
CL1S-A-48LU-5K-4-**

Notes:

Type:

OA

VISUAL13-59966

PERFORMANCE DATA

NUMBER OF LEDS	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	5K (5100K NOMINAL, 67 CRI)					4K (4200K NOMINAL, 70 CRI)					3K (3000K NOMINAL, 80 CRI)				
				LUMENS	LPW*	B	U	G	LUMENS	LPW*	B	U	G	LUMENS	LPW*	B	U	G
16	700mA	38w	2	3053	80				3077	81				2438	64			
			3	3075	81				3099	82				2456	65			
			4	3113	82				3136	83				2486	65			
			5S	3457	91				3484	92				2761	73			
			5M	3731	98	2	0	0	3454	91				2737	72			
32		76w	2	6527	86				6042	79				4788	63			
			3	6574	86				6085	80				4823	63			
			4	6654	88				6159	81				4881	64			
			5S	7391	97				6841	90				5422	71			
			5M	7327	96	3	0	1	6782	89				5375	71			
48	110w	2	9864	87	2	2	2	9131	87				7236	66				
		3	9935	90	2	1	2	9593	90	2	0	2	7288	66				
		4	10056	92	2	1	2	9309	85				7377	67				
		5S	11169	101	3	0	0	10339	94				8193	74				
		5M	11073	101	3	1	2	10250	91	3	0	2	8123	74	3	1	1	
		5W	10132	92	4	1	2	9379	85				9662	85	4	0	2	

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 end-user environment, application and inherent performance tolerances of the electrical components.

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP.	0	25,000	50,000	*TM-21-11 60,000	100,000	CALCULATED L70 (hours)
25°C / 77°F	1.00	0.98	0.96	0.96	0.94	>675,000
40°C / 104°F	0.98	0.96	0.95	0.94	0.92	>556,000

* Nichia 219B, 700mA, 85°C Ts, 10,000hrs

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT DATA		
TEMP	LUMEN MULT.	
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98
50°C	122°F	0.98

ELECTRICAL DATA

NUMBER OF LED'S	NUMBER OF DRIVERS	Drive Current [milliamps]	INPUT VOLTAGE (VOLTS)	OPER. CURRENT [AMPS]	SYSTEM POWER [WATTS]	IN-RUSH CURRENT (AMPS)
16	1	std. (700mA)	120	0.32	37.8	
			277	0.15	37.5	
			347			
			480			
32	2		120	0.63	75.5	
			277	0.29	74.8	
			347			
			480			
48	3		120	0.95	110.5	
			277	0.44	110.9	
		347				
		480				

ACCESSORIES

PHOTOCONTROL EQUIPMENT

CATALOG NUMBER	DESCRIPTION
PTL-1	Photocontrol - twist-lock cell (120V)
PTL-8	Photocontrol - twist-lock cell (120-277V)
PTL-5	Photocontrol - twist-lock cell (480V)
PTL-6	Photocontrol - twist-lock cell (347V)
PSC	Shorting cap - twist-lock

MOUNTING ACCESSORIES

CATALOG NUMBER	DESCRIPTION
CL1S-RPA3-XX ¹	Round pole adapter for straight arm (3/4" - 3/4")
CL1S-RPA4-XX ¹	Round pole adapter for straight arm (3/8" - 4 1/2")
WB-CR-XX	Wall bracket

¹ Replace XX with color choice, eg.: DB for Dark Bronze

TENON TOP POLE BRACKET ACCESSORIES

(2 3/8" OD tenon, RSS version requires 4" round pole adapter)

Catalog Number	Description
SETA-XX ¹	Square pole tenon adapter (4 at 90 degrees)
RETA-XX ¹	Round pole tenon adapter (4 at 90 degrees)
TETA-XX ¹	Triangular pole tenon adapter (3 at 120 degrees)

¹ Replace XX with color choice, eg.: DB for Dark Bronze

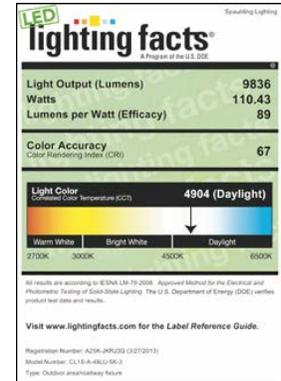
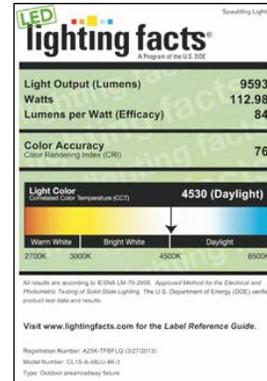
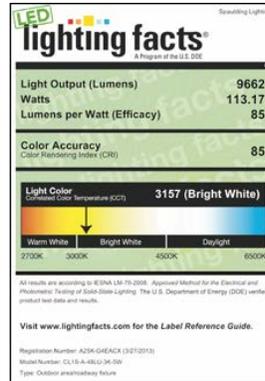
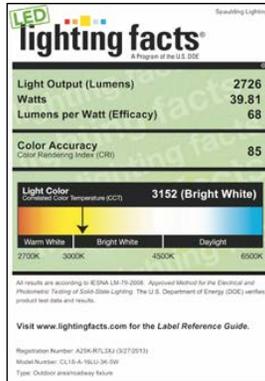


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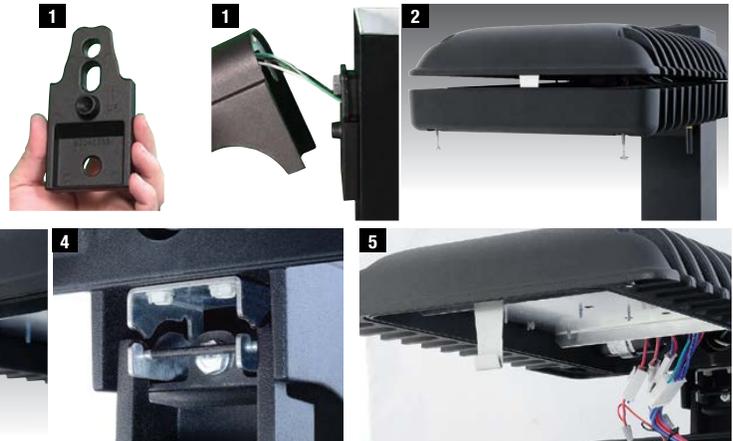
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CL1SLED-SPEC 11/13

LIGHTING FACTS

QUICK MOUNT INSTALLATION

The Cimarron CL1S installation features:

- 1** Quick-mount plate attaches to pole with two 3/4" bolts
- 2** 4 - slot hex 1/4" captured screws secure luminaire door to top
- 3** Safety-latch holds luminaire door to prevent "free swing" door
- 4** Two stage hinge mechanism built into integral arm
- 5** Quick-connect wiring for a simplified, hassle-free installation


 For installation video
 scan this code or
 visit link below:

<http://www.youtube.com/user/hubbelloutdoorbrands>



Job Name:
GRANDVIEW COMMONS

Catalog Number:
WS-W1122-**

Notes:

Type:

OW1

URBAN – model: WS-W11

LED Outdoor Sconce Luminaire

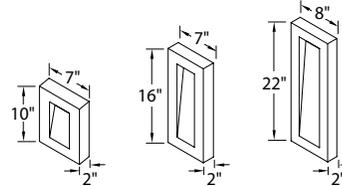


Fixture Type:

Catalog Number:

Project: _____

Location: _____



PRODUCT DESCRIPTION

Like urban renewal, the Urban sconce gives new life to the conventional step baffle. Form follows function in this simplified indirect wall sconce. Clean styling and robust LED performance are combined in this modern dark sky luminaire.

FEATURES

- Interior light and down light
- Low profile design
- Replaceable LED module
- 50,000 hour potential life
- **Color Temp: 3000K**
- **CRI: 85**

FIXTURE PERFORMANCE

Model	Watt	# of LEDs	LED Lumens	Photometric Lumens
WS-W1110	12W	3	720	325
WS-W1116	16W	4	960	330
WS-W1122	20W	5	1200	360

REPLACEMENT GLASS

Model	Fixture	Description
RPL-GLA-1110-01	WS-W1110	Top Lens
RPL-GLA-1110-02		Bottom Lens
RPL-GLA-1116-01	WS-W1116	Top Lens
RPL-GLA-1116-02		Bottom Lens
RPL-GLA-1122-01	WS-W1122	Top Lens
RPL-GLA-1122-02		Bottom Lens

SPECIFICATIONS

Construction: Aluminum.

Power: Line Voltage, 120V input direct wire.

Light Source: High output LED.

Dimming: Dims to 10% with an electronic low voltage (ELV) dimmer.

Mounting: Mounts directly to junction box.

Finish: Black (BK), Bronze (BZ), Graphite (GH), White (WT).

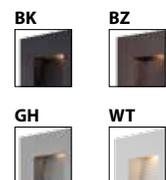
Standards: Wet location listed. ADA compliant. Dark Sky friendly.

Installation: Requires Transformer to be recessed within the junction box.

ORDER NUMBER

Model	Height	Finish
WS-W11	10	10" BK Black
	16	16" BZ Bronze
	22	22" GH Graphite
		WT White

FINISHES



Example: WS-W1116-GH

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Western Distribution Center
1750 Archibald Avenue • Ontario, CA 91760
Phone (800) 526.2588 • Fax (800) 526.2585



Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
LMC-30LU-4K-4-1

Notes:

Type:

OW4

VISUAL13-59966

**LAREDO
SERIES**
LMC - 30LEDs



Cat.#		Approvals
Job	Type	



SPECIFICATIONS

Intended Use:

Full cut-off IDA compliant perimeter or entry lighting for 15-18ft mounting heights that require high light output and maximum energy efficiency. Laredo LMC-30 LED wallpack provides low installation costs with little or no maintenance and great energy savings. Ideal for schools, factories, hospitals, warehouses and retail applications.

Construction:

Decorative die-cast aluminum housing and door. Rugged design protects internal components and provides excellent thermal management for 70% lumen maintenance at 50,000 hours minimum LED life. Lektrocote® series powder paint finishes provide lasting appearance in outdoor environments. Five standard finishes include: Bronze, Black, Gray, White and Platinum.

Optics:

LED: 30 High power LEDs delivers up to 4673 lumens and combination of optical lenses and reflectors deliver light in either type III or type IV distributions, with better than 4 to 1 max to min uniformity. 4000K and 5000K/70 CRI LEDs provide excellent color rendition with up to 66 lumens per watt efficiency.

Lenses:

Full cut-off distribution - individual acrylic LED optics provide IES Type III and Type IV distributions

Electrical:

Electronic driver 71w system, 0.4 AMPS max, 120-277V, 50/60Hz.

Installation:

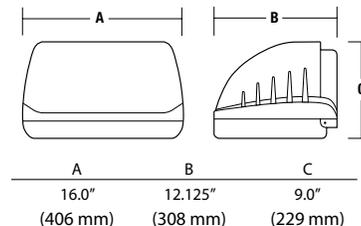
Quick mount system provides rigid mounting over recessed junction boxes – fixture does not require opening for mounting. Foam gasket for sealing to smooth surfaces provided. Superior performance with 5 to 1 spacing to mounting height ratio.

Listings:

Listed and labeled to UL 1598 for wet locations, 25° C ambient environments.
U.S. Patent No. D563,587

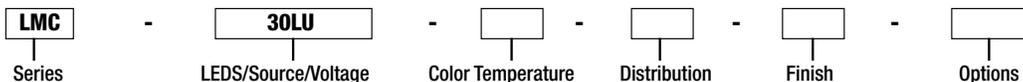
Warranty:

5 year limited warranty



ORDERING INFORMATION

ORDERING EXAMPLE: LMC-30LU-5K-3-1-PC(4)



SERIES	LEDS/SOURCE/VOLTAGE	COLOR TEMPERATURE	DISTRIBUTION	FINISH	OPTIONS
LMC Laredo Medium Cutoff	30LU 30 LEDs, up to 4673 lumens, 71w input, Universal voltage 120-277V	4K Nominal 4000K high CRI 5K Nominal 5000K high CRI	3 Type III (4673 lumens) 4 Type IV (4507 lumens)	1 Bronze 2 Black 3 Gray 4 White 5 Platinum	PC(X) Button photocontrol, replace X with voltage, specify 1-120V, 2-208V, 3-240V, 4-277V

ACCESSORIES – ORDER SEPARATELY

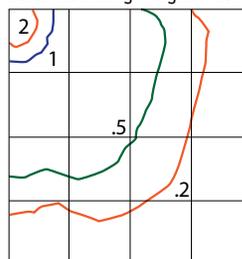
LMC-SPC	Polycarbonate shield
PBT-1	120V button photocontrol
PBT-1	208/240/277V button photocontrol

PHOTOMETRICS

LMC30LU5K3XX	LMC-30LU-5K-3XX.IES
LMC30LU5K4XX	LMC-30LU-5K-4XX.IES

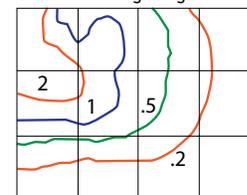
Application Template Type IV

15ft. Mounting Height - 15ft Grids



Application Template Type III

15ft. Mounting Height - 15ft Grids





Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:
WS-W2605-**

Notes:

Type:

OWS

VISUAL13-59966

TUBE – model: WS-W2605

LED Outdoor Sconce Luminaire

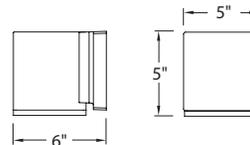


Fixture Type:

Catalog Number:

Project: _____

Location: _____



PRODUCT DESCRIPTION

Precise engineering using the latest energy efficient LED technology with a built-in reflector for superior optics; An appealing cylindrical profile with a powerful LED down light perfect for accent and wall wash lighting.

FEATURES

- Replaceable LED module
- 50,000 hour potential life
- **Color Temp: 3000K**
- **CRI: 85**

SPECIFICATIONS

Construction: Aluminum with etched glass.

Power: Integral driver in luminaire. 120V input.

Light Source: High output LED.

Dimming: Dims to 10% with an electronic low voltage (ELV) dimmer.

Mounting: Mounts directly to junction box.

Finish: Brushed Aluminum (AL), Black (BK), Bronze (BZ), Graphite (GH), White (WT).

Standards: Wet location listed. Dark Sky friendly.

FIXTURE PERFORMANCE

Model	Watt	# of LEDs	LED Lumens	Photometric Lumens
WS-W2605	18W	1	1002	787

ORDER NUMBER

Model	Length	Finish
WS-W2605	5"	AL <i>Brushed Aluminum</i> BK <i>Black</i> BZ <i>Bronze</i> GH <i>Graphite</i> WT <i>White</i>

FINISHES



REPLACEMENT GLASS

Model	Fixture
RPL-GLA-2605	WS-W2605

WS-W2605 –

Example: WS-W2605-AL

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Job Name:
GRANDVIEW COMMONS
Architect: JLA Architects + Planners
(MADISON)

Catalog Number:

LMS100-5L

Notes:

Type:

ST

VISUAL13-59966

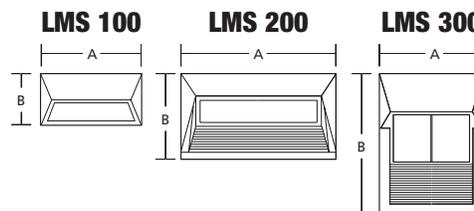
LMS
100/200/300

Cat. #		Approvals
Job	Type	

**DEVINE
LIGHTING™**

SPECIFICATIONS

- Rugged cast aluminum housing and face. Cast bronze optional for the ultimate in life and quality. Concrete pour and drywall designs (must specify) 3/4" conduit hubs in external wiring compartment.
- Tempered, frosted glass for soft distribution and lamp image shielding. Gasketed for wet locations. Stainless steel allenhead screws are standard.
- Formed specular reflector maximizes output.
- Three sizes for proper scale for your project. Wattages range from 7 to 100 through various sources.
- NEW! 5 watt 120V LED system, provides long life, low maintenance.
- Standard finishes include dark bronze, black, white and platinum. Brushed finish on optional cast bronze face. Custom colors available, consult factory.
- CSA certified to UL1598 for use in wet locations.



	A	B	Depth
LMS 100	8 ⁷ / ₁₆ "	3 ⁷ / ₈ "	3"
	214 mm	98 mm	76 mm
LMS 200	13 ³ / ₄ "	7 ⁷ / ₈ "	4 ¹ / ₈ "
	349 mm	181 mm	105 mm
LMS 300	9 ³ / ₄ "	12"	5"
	248 mm	305 mm	127 mm

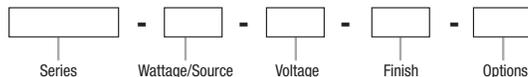
Note: Rough-in for drywall installation:
LMS 100 = 7 3/4" x 3 3/8" x 3"
LMS 200 = 13" x 6 1/8" x 4 1/8"
LMS 300 = 9" x 11 1/8" x 5"

LMS 100 / LMS 200 only



ORDERING INFORMATION

ORDERING EXAMPLE: LMS100-PL7-120-DB-DW



SERIES	
LMS100	LMS 100 Series
LMS200	LMS 100 Series
LMS300	LMS 100 Series

WATTAGE/SOURCE	
	LMS 100 Series
5L²	5W LED 120V.
PL7	G23 Base Mag.
40INC	40W Incandescent Medium Base
	LMS 200 Series
50HPS	50W HPS Medium Base
50MH	50W MH Medium Base
PL9	G23 Base Mag.
PL13	GX23 Base Mag.
75INC	75W Incandescent Medium Base
	LMS 300 Series
70HPS	70W HPS Medium Base
100HPS	100W HPS Medium Base
70MH	70W MH Medium Base
100MH	100W MH Medium Base
PLC26	G24D-3 Base Mag.
PLT26-ELB	GX4q-3 Base
100INC	100W Incandescent Medium Base

VOLTAGE	
120	120V
277	277V
MT	Multi-Tap (120/208/240/277V)
347	347V

FINISH	
DB	Dark Bronze
BLK	Black
WHT	White
SAL	Platinum Silver

OPTIONS	
DW'	Drywall
CP'	Concrete Pour
GD	Cast Guard (LMS300 only)
BZ	Cast Bronze Face
BZ1	All Cast Bronze Fixture
JBTW	Junction Box Through Wire
F	Fusing
LP	Lamp Included

*1 Must select drywall or concrete pour.
2 6350K color temperature.*

Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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