

URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
126 S. Hamilton St.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635



Complete all sections of this application, including the desired meeting date and the action requested.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the phone number above immediately.

FOR OFFICE USE ONLY:

Paid _____ Receipt # _____

Date received _____

Received by _____

Aldermanic District _____

Zoning District _____

Urban Design District _____

Submittal reviewed by _____

1. Project Information

Address: 650 Forward Drive, Madison WI
Title: Exact Sciences Production Lab - Phase 2

2. Application Type (check all that apply) and Requested Date

UDC meeting date requested January 24, 2017

New development Alteration to an existing or previously-approved development
 Informational Initial approval Final approval

3. Project Type

Project in an Urban Design District
 Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
 Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
 Planned Development (PD)
 General Development Plan (GDP)
 Specific Implementation Plan (SIP)
 Planned Multi-Use Site or Residential Building Complex

Signage

Comprehensive Design Review (CDR)
 Signage Variance (i.e. modification of signage height, area, and setback)

Other

Please specify _____

4. Applicant, Agent, and Property Owner Information

Applicant name Jody Shaw **Company** Potter Lawson

Street address 749 University Row Suite 300 **City/State/Zip** Madison, WI 53705

Telephone 608 274-2741 **Email** jodys@potterlawson.com

Project contact person Joel Schriever **Company** Exact Sciences

Street address 441 Charmany Drive **City/State/Zip** Madison, WI 53719

Telephone 608 284-5700 **Email** jschriever@exactsciences.com

Property owner (if not applicant) CG Growth

Street address 441 Charmany Drive **City/State/Zip** Madison, WI 53719

Telephone 608 284-5700 **Email** scoward@exactsciences.com

5. Required Submittal Materials

Application Form

Letter of Intent

- If the project is within an Urban Design District, a summary of how the development proposal addresses the district criteria is required
- For signage applications, a summary of how the proposed signage is consistent with the applicable CDR or Signage Variance review criteria is required.

Development plans (Refer to checklist provided below for plan details)

Filing fee

Electronic Submittal*

Both the paper copies and electronic copies must be submitted prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. A completed application form is required for each UDC appearance.

For projects also requiring Plan Commission approval, applicants must also have submitted an accepted application for Plan Commission consideration prior to obtaining any formal action (initial or final approval) from the UDC. All plans must be legible when reduced.

**Electronic copies of all items submitted in hard copy are required. Individual PDF files of each item submitted should be compiled on a CD or flash drive, or submitted via email to udcapplications@cityofmadison.com. The email must include the project address, project name, and applicant name. Electronic submittals via file hosting services (such as Dropbox.com) are not allowed. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.*

6. Applicant Declarations

1. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with UDC - Informational Presentation on 12/06/2017.
2. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Applicant name Jody Shaw Relationship to property _____ Architect _____

Authorized signature of Property Owner D. Scott C Date 12/20/2017

7. Application Filing Fees

Fees are required to be paid with the first application for either initial or final approval of a project, unless the project is part of the combined application process involving the Urban Design Commission in conjunction with Plan Commission and/or Common Council consideration. Make checks payable to City Treasurer. Credit cards may be used for application fees of less than \$1,000.

Please consult the schedule below for the appropriate fee for your request:

- Urban Design Districts: \$350 (*per §35.24(6) MGO*).
- Minor Alteration in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) : \$150 (*per §33.24(6)(b) MGO*)
- Comprehensive Design Review: \$500 (*per §31.041(3)(d)(1)(a) MGO*)
- Minor Alteration to a Comprehensive Sign Plan: \$100 (*per §31.041(3)(d)(1)(c) MGO*)
- All other sign requests to the Urban Design Commission, including, but not limited to: appeals from the decisions of the Zoning Administrator, requests for signage variances (i.e. modifications of signage height, area, and setback), and additional sign code approvals: \$300 (*per §31.041(3)(d)(2) MGO*)

A filing fee is not required for the following project applications if part of the combined application process involving both Urban Design Commission and Plan Commission:

- Project in the Downtown Core District (DC), Urban Mixed-Use District (UMX), or Mixed-Use Center District (MXC)
- Project in the Suburban Employment Center District (SEC), Campus Institutional District (CI), or Employment Campus District (EC)
- Planned Development (PD): General Development Plan (GDP) and/or Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Residential Building Complex

Introduction

The City of Madison's Urban Design Commission (UDC) has been created to:

- Encourage and promote high quality in the design of new buildings, developments, remodeling, and additions so as to maintain and improve the established standards of property values within the City.
- Foster civic pride in the beauty and nobler assets of the City, and in all other ways possible assure a functionally efficient and visually attractive City in the future.

Types of Approvals

There are three types of requests considered by the UDC:

- Informational Presentation. Applicants may, at their discretion, request to make an Informational Presentation to the UDC prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design. Applicants should provide details on the context of the site, design concept, site and building plans, and other relevant information to help the UDC understand the proposal and provide feedback. (Does not apply to CDR's or Signage Variance requests)
- Initial Approval. Applicants may, at their discretion, request initial approval of a proposal by presenting preliminary design information. As part of their review, the Commission will provide feedback on the design information what should be addressed at Final Approval stage.
- Final Approval. Applicants may request Final Approval of a proposal by presenting all final project details. Recommendations or concerns expressed by the UDC in the initial approval must be addressed at this time.

Presentations to the Commission

Primarily, the UDC is interested in the appearance and design quality of projects. Emphasis should be given to the site plan, landscape plan, lighting plan, building elevations, exterior building materials, color scheme, and graphics.

When presenting projects to the UDC, applicants must fill out a registration slip provided in the meeting room and present it to the Secretary. Presentations should generally be limited to 5 minutes or as extended by motion by consent of the Commission. The Commission will withhold questions until the end of the presentation.

Applicants are encouraged to consider the use of various graphic presentation material including a locator map, photographs, renderings/model, scale drawings of the proposal in context with adjacent buildings/uses/signs, etc., as may be deemed appropriate to describe the project and its surroundings. Graphics should be mounted on rigid boards so that they may be easily displayed. **Applicants/presenters are responsible for all presentation materials, AV equipment and easels.**

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

UDC

The items listed below are minimal application requirements for the type of approval indicated. Please note that the UDC and/or staff may require additional information in order to have a complete understanding of the project.

1. Informational Presentation

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan
- Two-dimensional (2D) images of proposed buildings or structures.

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

Requirements for All Plan Sheets

1. Title block
2. Sheet number
3. North arrow
4. Scale, both written and graphic
5. Date
6. Fully dimensioned plans, scaled at 1" = 40' or larger

**** All plans must be legible, including the full-sized landscape and lighting plans (if required)**

2. Initial Approval

- Locator Map
- Letter of Intent (If the project is within a Urban Design District, a summary of how the development proposal addresses the district criteria is required)
- Contextual site information, including photographs and layout of adjacent buildings/structures
- Site Plan showing location of existing and proposed buildings, walks, drives, bike lanes, bike parking, and existing trees over 18" diameter
- Landscape Plan and Plant List (*must be legible*)
- Building Elevations in both black & white and color for all building sides (include material callouts)
- PD text and Letter of Intent (if applicable)

Providing additional information beyond these minimums may generate a greater level of feedback from the Commission.

3. Final Approval

All the requirements of the Initial Approval (see above), plus:

- Grading Plan
- Proposed Signage (if applicable)
- Lighting Plan, including fixture cut sheets and photometrics plan (*must be legible*)
- Utility/HVAC equipment location and screening details (with a rooftop plan if roof-mounted)
- PD text and Letter of Intent (if applicable)
- Samples of the exterior building materials (presented at the UDC meeting)

4. Comprehensive Design Review (CDR) and Variance Requests (Signage applications only)

- Locator Map
- Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Variance criteria is required)
- Contextual site information, including photographs of existing signage both on site and within proximity to the project site
- Site Plan showing the location of existing signage and proposed signage, dimensioned signage setbacks, sidewalks, driveways, and right-of-ways
- Proposed signage graphics (fully dimensioned, scaled drawings, including materials and colors, and night view)
- Perspective renderings (emphasis on pedestrian/automobile scale viewsheds)
- Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

December 20, 2017

City of Madison
Urban Design Commission
126 South Hamilton Street
Madison, WI 53703

Re: 650 Forward Drive, Madison WI 53711
Exact Sciences Production Lab - Phase 2

Dear Commission Members:

Please accept this Letter of Intent, Application and attachments as our submittal for an initial and final approval presentation/ request on the Phase 2 of the Clinical Lab Facility, the Production Lab for Exact Sciences.

Project Team

Owner:

Exact Sciences
441 Charmany Drive
Madison, WI 53719
(608) 284-5700

Owner's Representative:

General Capital Group
Steve Sirkis
6938 N Santa Monica Blvd.
Fox Point, WI 53217
(414) 228-3509
ssirkis@generalcapitalgroup.com

Architect:

Jody Shaw
Potter Lawson, Inc.
749 University Avenue, Suite 300
Madison, Wisconsin 53705
(608) 274-2741
[Jodys@Potterlawson.com](mailto:jodys@Potterlawson.com)

Civil Engineer:

Joseph Doyle
Vierbicher Associates Inc.
999 Fourier Dr # 201,
Madison, WI 53717
(608) 826-0532
jdoy@vierbicher.com

Landscape Architect:

Suzanne Vincent
Vierbicher Associates Inc.
999 Fourier Dr # 201,
Madison, WI 53717
(608) 826-0532
svin@vierbicher.com

Contractor:

Bob Hougard
J.H. Findorff & Son
300 S. Bedford St.
Madison, WI 53703
(608) 257-5321
bhougard@findorff.com

The Existing Conditions

The Production Lab is an addition to the Phase 1 Clinical Lab building. It is located on the Northeast corner of the Clinical Lab, completing the Clinical Lab geometry by infilling the area north of the Lab Support function, and east of the Clinical Lab. The Production Lab extends north of the Clinical Lab and creates an employee entrance on the north side of the Facility that is directly adjacent to the surface parking lot approved in a previous submittal.

Staff and Neighborhood Input

The Development Team has met with the City Staff on October 31, 2017 to review the project and schedule. The Development Team is also meeting with the DAT on November 16, 2017 to discuss the site plan. The Development Team has also notified Alder Clear with an email on October 26, 2017 of our intention to begin the approval process for the Production Lab. On December 06, 2017 the Development Team met with the Urban Design Commission for an informational presentation.

Project Overview

Exact Sciences Corporation is a molecular diagnostics company focused on the early detection and prevention of the deadliest forms of cancer. The company has exclusive intellectual property protecting Cologuard, its non-invasive, molecular screening technology for the detection of colorectal cancer.

As described in previous submittals, the first phase of the Clinical Processing Center creates the Specimen Processing lab for the Cologuard test, and creates the shell space for potential future tests that are currently under research. This project, the Phase 2 Production Lab creates the lab space used to produce the materials and solutions required in the Clinical Lab to perform the Cologard test.

The site is listed as an "SE" zoning district and the proposed uses are allowed, so no zoning conditional uses or variances are being requested.

The Production Lab is a two story Facility that matches the height of the Phase 1 Facility and continues the material language using precast concrete, translucent and transparent glazing and metal panel.

The Phase 2 Production Lab includes 71,500 GSF of production laboratory and office space. This includes:

Office/entry	21,000 SF
Production Lab and support	46,500 SF
Mechanical Penthouse	4,000 SF

As described above, this facility is an addition to the Clinical Lab and shares the same address and the main public entry on Forward Drive as created with Phase 1. A new employee entry is being constructed as part of the Production Lab that provides entrance to the entire Clinical Lab facility. This project also includes a terraced patio that functions as an employee amenity which provides direct access to the outdoors for the Clinical and Production Lab employees. The terraced patio also serves as a venue for outdoor meetings, larger group discussions, outdoor lunch seating and becomes a link to the future amenity building being planned just north of the Clinical Lab. Located in the heart of the Campus, this outdoor space is planned to become a central part of the employee amenities.

There is no new parking associated with this addition, and loading is accounted for with the Phase 1 Clinical Lab.

Working within the Urban Design District Number 2

Grading: The UDD2 requires positive drainage that allows for natural vegetation growth and appears natural. Due to the length of the building, and the necessity to have a continuous floor level, the building will be set into the grade of the site. The north side of the Production Lab is set into the grades approximately 10', matching the Clinical Lab. The new grades will be sloped to the existing grades where ever possible to reduce the potential for site retaining walls, and maintain a natural appearance.

Landscape: Shall be used to frame attractive views from roadways and to screen different uses from each other and to complement the architectural massing of the building. Species will be as prescribed by the Urban Design District Number 2. There are a number of existing walking paths through the southern portion of the site. The proposed Terrace patio will provide a link to those paths so that employees can use the pathways for "walking meetings" or lunch time exercise.

Structures: Buildings will be placed on the site to reinforce the natural contours of the site with the natural slope of the site towards the south. Buildings will be within scale of the existing neighborhood development, staying within one story height of the existing Rayovac building, and matching the height of the Phase 1 Clinical Lab. This is consistent with the low profile nature of the community.

Lighting: Building lighting will meet City of Madison ordinances and the Urban Design District Number 2 guidelines by providing glare free lighting in a minimal and attractive manner.

Screening: Parking and loading have been approved in previous projects. Mechanical units are being placed within the mass of the building, in a mechanical penthouse. Some of the lab functions will require exhaust stacks that will extend 10' above the roof any screening. These stacks will be groups as much as possible to provide an orderly image in keeping with the aesthetics of the building.

Building Design: Exterior building materials will use natural concrete and metal panels to create a façade that works within the context of the existing community, and set the tone for future additions to the campus. The building itself will be set into the slope of the site, reducing the overall mass of the building and keeping in context with the low profile character of the existing development.

Sustainability: The project is seeking LEED Certification with a goal of a LEED v4 Certification.

The building has extensive use of natural light throughout the warehouse area to reduce electric power needs. However, due to the nature of the laboratory building, the ventilation demands require the most Focus on Energy saving strategies. Variable flow fans throughout, energy recovery and variable flow exhaust stacks are some of the strategies being pursued. The facility will be built to high energy efficiency standards, including insulation, HVAC, and LED lighting. The Development Team will consult with Focus on Energy to ensure the project capitalizes on any other available technologies.

An extensive wet pond and infiltration pond was designed as part of the Phase 1 Clinical Lab and it accounts for all of the stormwater collection for this facility.

Requested Approval

With your review on our building and site design, we are looking for initial and final approval. We look forward to providing Exact Sciences with the Second Phase of their Clinical Laboratory Facility.

Regards,



Jody Shaw, AIA LEED AP
Potter Lawson, Inc.



Manufacturing and Clinical Lab Facility - Madison
2017.01.04
December 20, 2017

Production Lab Facility at 650 Forward Drive

UDC Initial / Final Approval Submittal
12.20.2017



Aerial View

Manufacturing and Clinical Lab Facility - Madison

2017.01.04

December 20, 2017



Aerial View

Manufacturing and Clinical Lab Facility - Madison

2017.01.04

December 20, 2017



Aerial Context Views

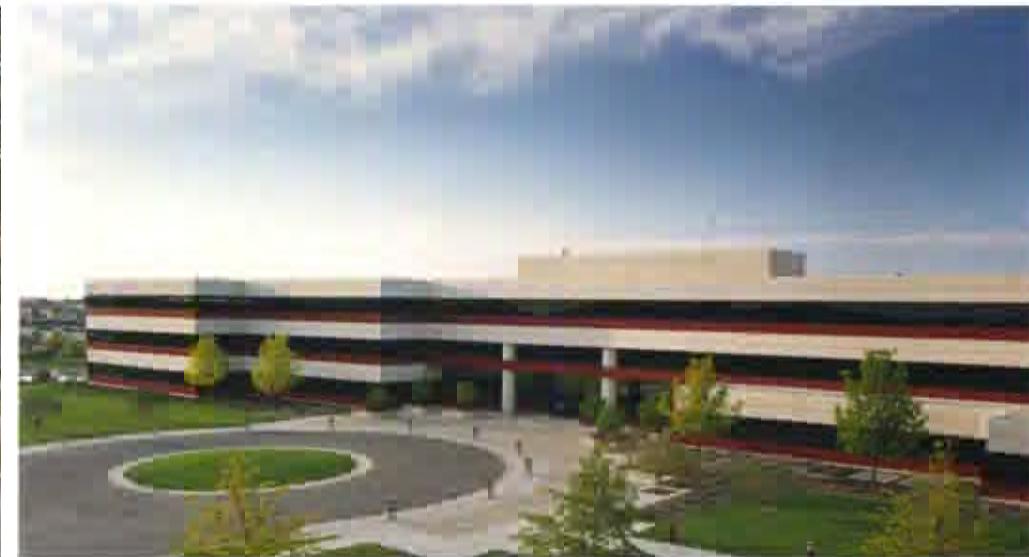
Manufacturing and Clinical Lab Facility - Madison

2017.01.04

December 20, 2017



Context Views
Manufacturing and Clinical Lab Facility - Madison
2017.01.04
December 20, 2017

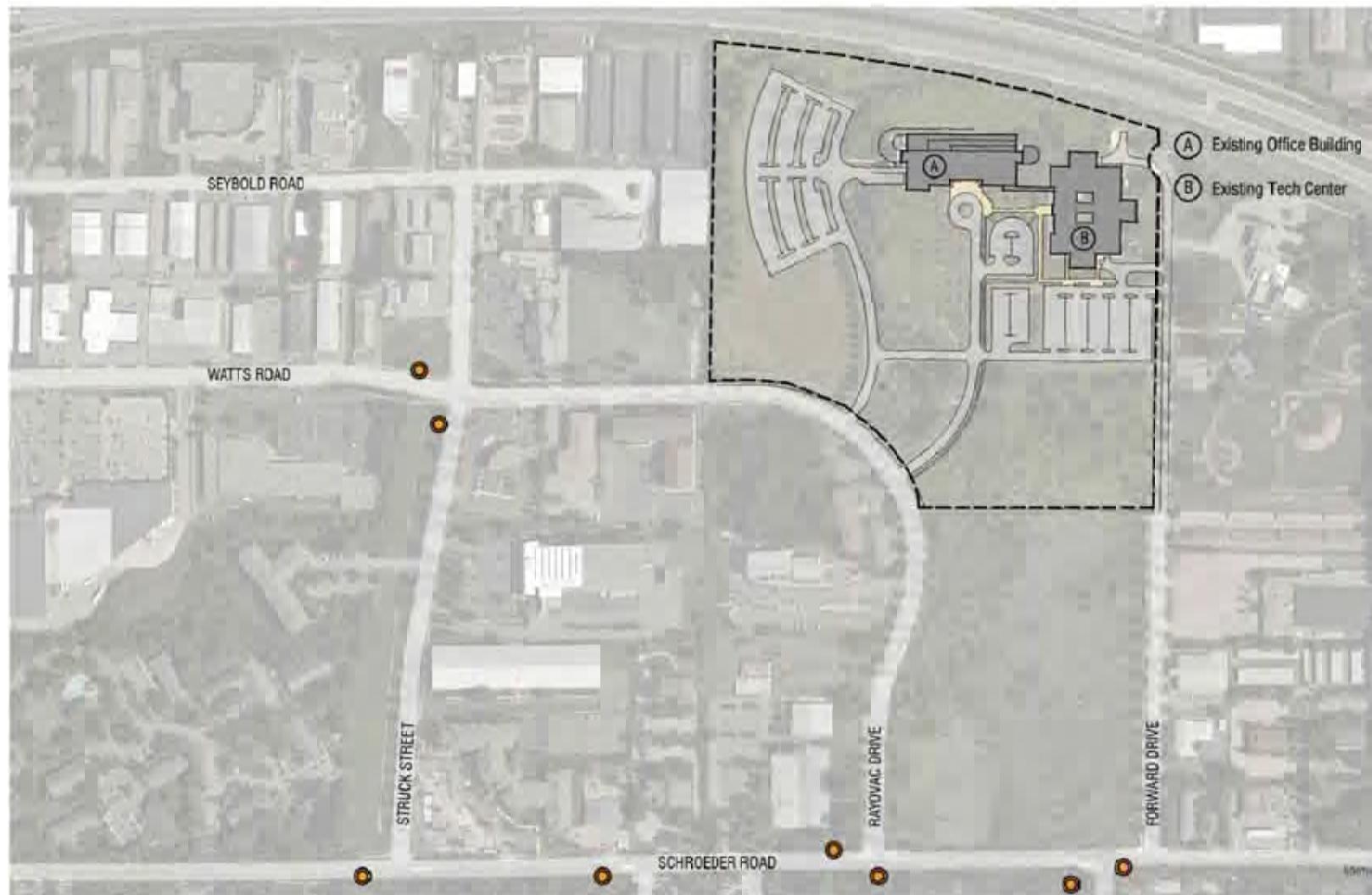


Context Views

Manufacturing and Clinical Lab Facility - Madison

2017.01.04

December 20, 2017



EXISTING INFORMATION

Manufacturing and Clinical Lab Facility - Madison
2017.01.04
December 20, 2017

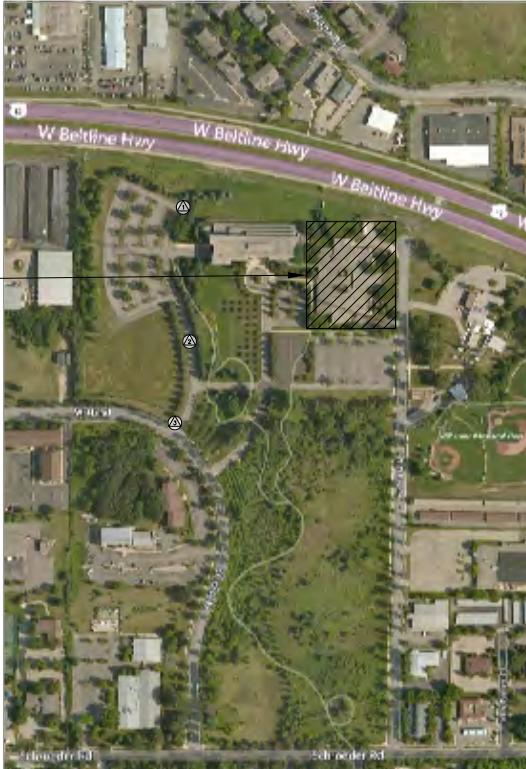


Exact Sciences Production Lab

650 Forward Drive

MADISON, DANE COUNTY, WISCONSIN

PROJECT LOCATION



SITE BENCHMARKS

- TOP NUT OF EX HYDRANT LOCATED AT NE CORNER OF NW PARKING LOT ELEV = 1054.047
- PK NAIL LOCATED ON CENTERLINE OF WESTERN PRIVATE DRIVE APPROX 412' FROM WATTS RD CENTERLINE ELEV = 1057.697
- PK NAIL LOCATED ON WEST SIDE OF ENTRANCE DRIVE APPROX 36' FROM WATTS RD CENTERLINE ELEV = 1045.067



THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD, ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES AND SHALL NOT RELY ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE RESPONSIBLE FOR LOCATING AND PRESERVING ALL UTILITIES WHICH MAY BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE
1-800-242-8511



Drawing Index

Sheet Title	Sheet Number
Title Sheet	1
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Demolition Plan	3
Site Plan	4
Grading Plan	5
Utility Plan	6
Landscape Plan	7

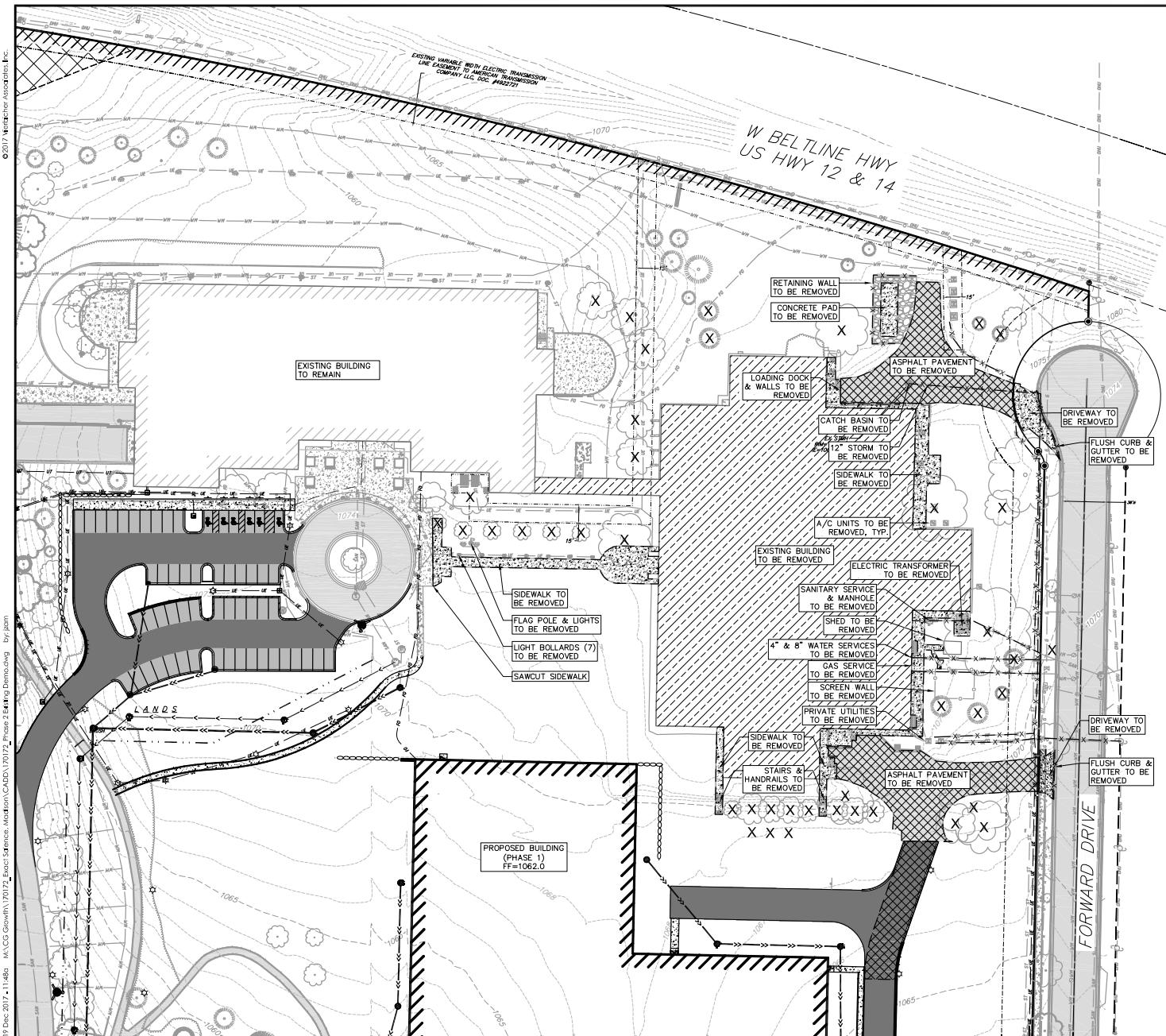
SCALE: AS SHOWN
DATE: 12/20/17
DRAFTER: CB0C
CHECKED: JZAM
PROJECT NO.: 170172
SHEET: 1 OF 7
Dwg. No.:

1. THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAS BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE OWNER AND THE ENGINEER DO NOT ASSUME RESPONSIBILITY IN ANY WAY FOR THE LOCATION OF THESE UTILITIES, WHICH MAY BE OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF THOSE WHICH ARE SHOWN MAY BE DIFFERENT FROM THE LOCATION AS SHOWN ON THE PLANS.

2. CONTRACTOR SHALL KEEP ALL STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.

3. THESE DRAWINGS ASSUME THAT THE CONTRACTOR WILL UTILIZE AN ELECTRONIC DRAWING FILE AND STAKE ALL SITE IMPROVEMENTS USING COORDINATES TIED INTO CONTROL POINTS. THE DIMENSIONS INDICATED ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY.

4. PRIOR TO THE USE OF THESE DRAWINGS FOR CONSTRUCTION PURPOSES, THE USER SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF BUILDINGS WITH THE FOUNDATION DRAWINGS AND ARCHITECTURAL SITE PLANS. IF CONFLICTS EXIST THE USER OF THESE DRAWINGS SHALL CONTACT THE ENGINEER IMMEDIATELY.



DEMOLITION PLAN LEGEND

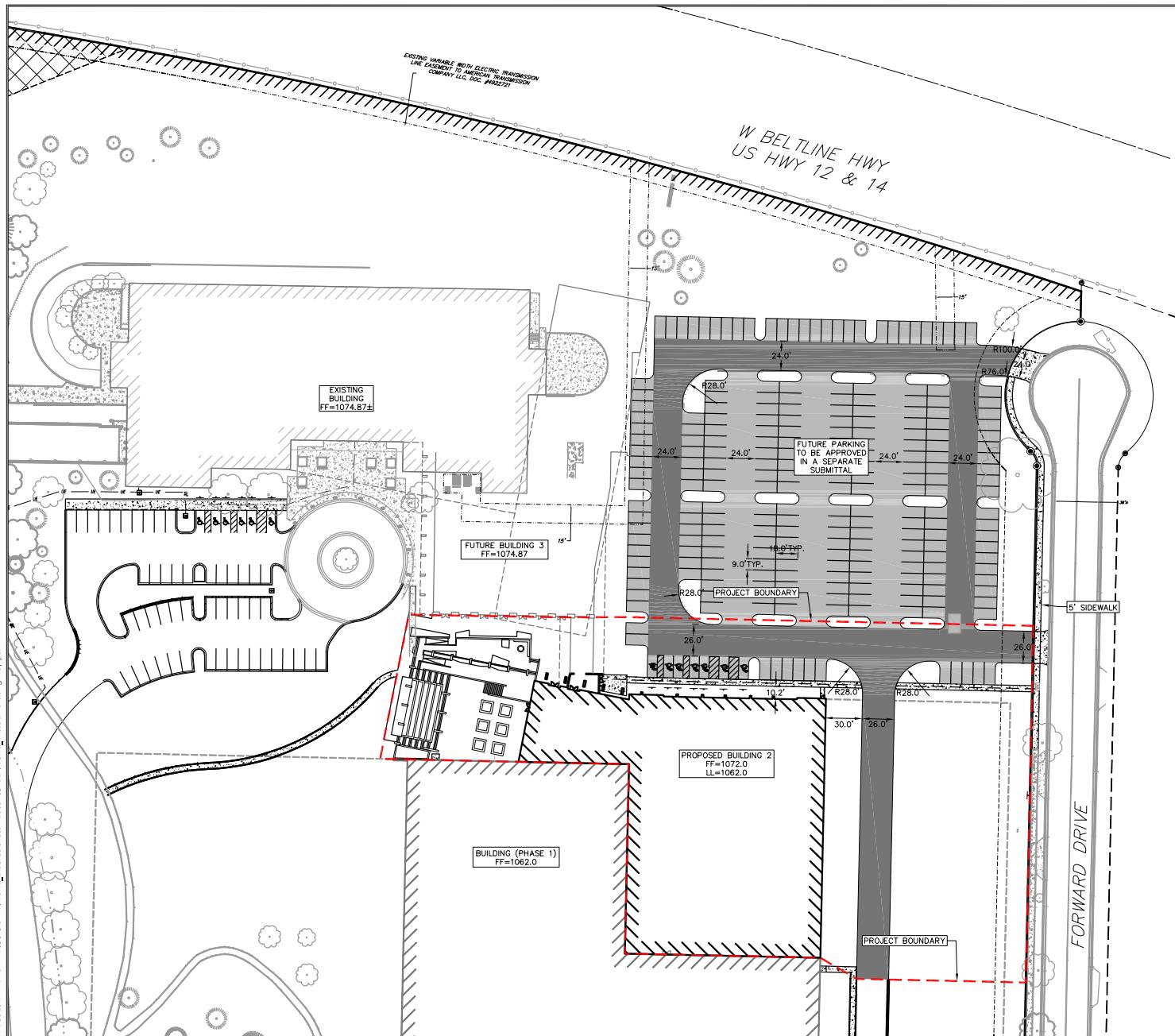
- CURB AND GUTTER REMOVAL
- BUILDING REMOVAL
- ASPHALT REMOVAL
- CONCRETE REMOVAL
- TREE REMOVAL
- SAWCUT
- UTILITY STRUCTURE REMOVAL
- UTILITY LINE REMOVAL

GENERAL NOTES:

- THE LOCATION OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAS BEEN DETERMINED AS THE BEST AVAILABLE INFORMATION AND IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR, THE OWNER AND THE ENGINEER DO NOT ASSUME RESPONSIBILITY IN THE EVENT THAT OTHER UTILITIES OR UTILITIES OTHER THAN THOSE SHOWN MAY BE ENCOUNTERED, AND THAT THE ACTUAL LOCATION OF THOSE WHICH ARE SHOWN MAY BE DIFFERENT FROM THE LOCATION AS SHOWN ON THE PLANS.
- CONTRACTOR SHALL KEEP ALL STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.
- THESE DRAWINGS ASSUME THAT THE CONTRACTOR WILL UTILIZE AN ELECTRONIC DRAWING FILE AND STAKE OUT SYSTEM. THE COORDINATES ARE IN FEET AND ARE NOT TO BE USED AS DESIGN COORDINATES TIED INTO CONTROL POINTS. THE DIMENSIONS INDICATED ON THE DRAWINGS ARE FOR THE CONVENIENCE OF THE CONTRACTOR ONLY.
- PRIOR TO THE USE OF THESE DRAWINGS FOR CONSTRUCTION PURPOSES, THE USER SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF BUILDINGS, ROADS, THE FOUNDATION DRAWINGS AND ARCHITECTURAL SITE PLAN. IF CONFLICTS EXIST THE USER OF THESE DRAWINGS SHALL CONTACT THE ENGINEER IMMEDIATELY.

Demolition Plan
Exact Sciences Production Lab
650 Forward Drive
Madison, Dane County, Wisconsin

SCALE	NO. OF REVISONS	REVISIONS	NO. DATE	REMARKS
AS SHOWN				
DATE	12/20/17			
DRAFTER	CB0C			
CHECKED	JZAM			
PROJECT NO.	170172			
SHEET	3 OF 7			
DWG. NO.				



GRAPHIC SCALE FEET
 0 20 40 80

SITE PLAN LEGEND

PROPERTY BOUNDARY

CURB AND GUTTER (REVERSE CURB HATCHED)

RETAINING WALL

PROJECT BOUNDARY

ACCESIBLE ROUTE

PROPOSED CONCRETE

PROPOSED LIGHT-DUTY ASPHALT

PROPOSED HEAVY-DUTY ASPHALT

PROPOSED LIGHT POLE

PROPOSED BOLLARD

PROPOSED ADA DETECTABLE WARNING FIELD

PROPOSED HANDICAP PARKING

Site Plan	
	Exact Sciences Production Lab
	650 Forward Drive
	Madison, Dane County, Wisconsin
5	

Site Plan

55

REMARKS

REV
STATE

NO. D/A

15

REMARKS

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12/20/17

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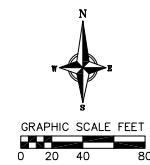
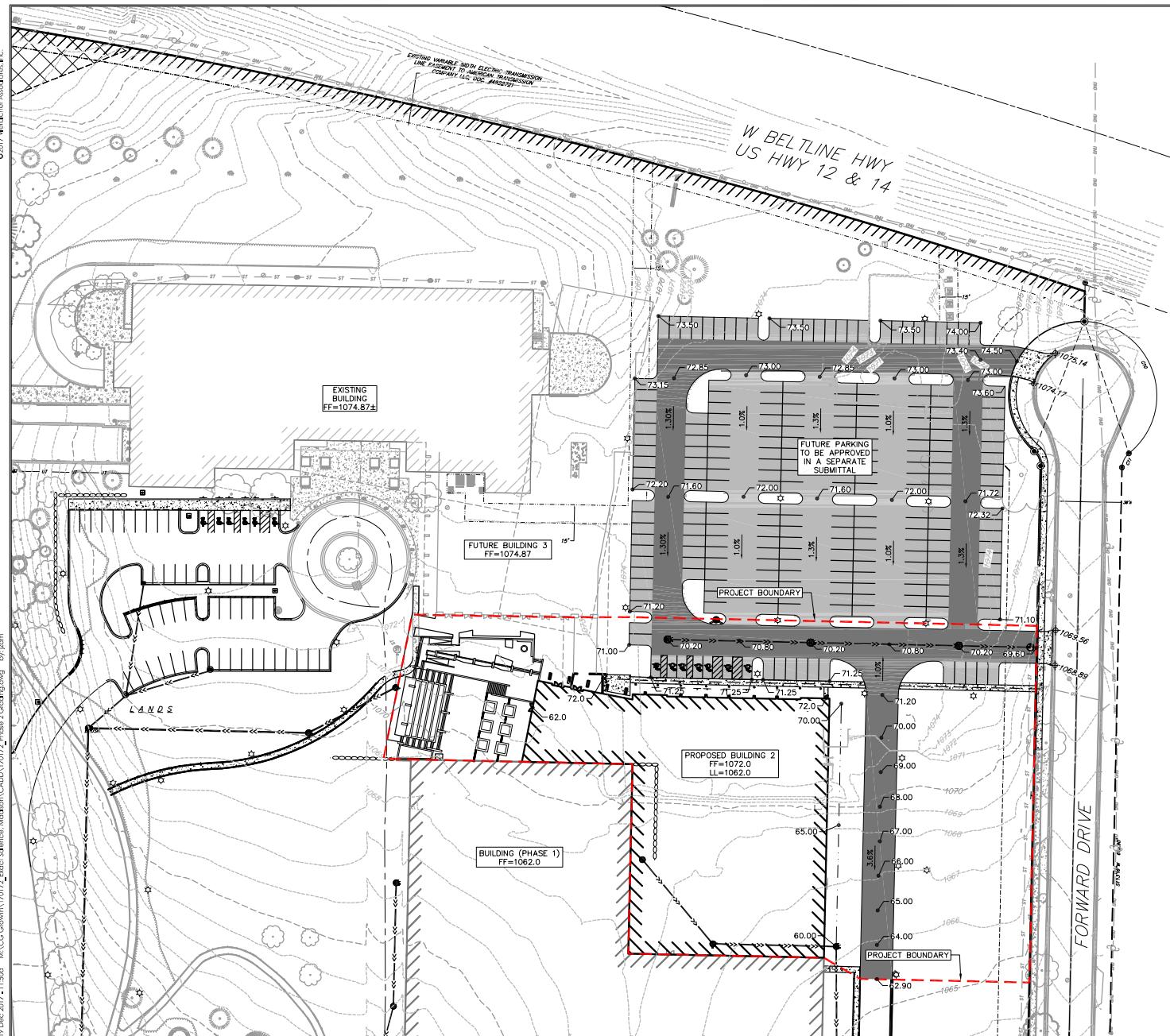
JZAM

170172

SHEET

4 OF 7

114



GRADING LEGEND

- 820 EXISTING MAJOR CONTOURS
- 818 EXISTING MINOR CONTOURS
- 820 PROPOSED MAJOR CONTOURS
- 818 PROPOSED MINOR CONTOURS
- - - DITCH CENTERLINE
- - - SILT FENCE
- - - PROJECT BOUNDARY

→ DRAINAGE DIRECTION

PROPOSED SLOPE ARROWS

EXISTING SPOT ELEVATIONS

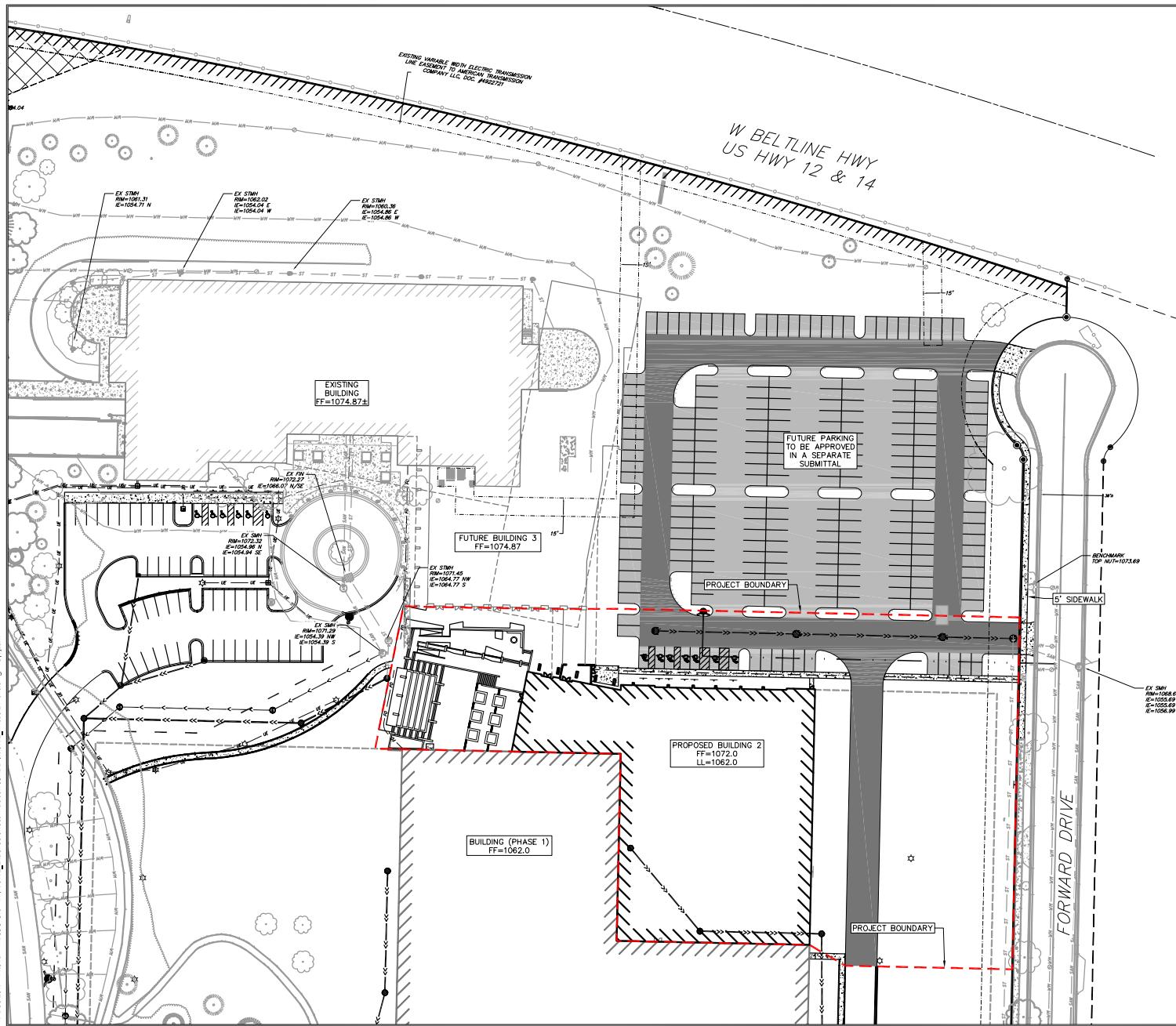
PROPOSED SPOT ELEVATIONS

ABBREVIATIONS

- TC - TOP OF CURB
- FW - FLOW LINE
- SW - SIDEWALK
- TW - TOP OF WALL
- BW - BOTTOM OF WALL

Grading Plan
Exact Sciences Production Lab
650 Forward Drive
Madison, Dane County, Wisconsin

SCALE AS SHOWN	NO. DATE	REMARKS
12/20/17		
DRAFTER		
CBOC		
CHECKED		
JZAM		
PROJECT NO.	170172	
SHEET	5 OF 7	
DWG. NO.		



GRAPHIC SCALE FEET

PROPOSED UTILITY LEGEN

ABBREVIATION

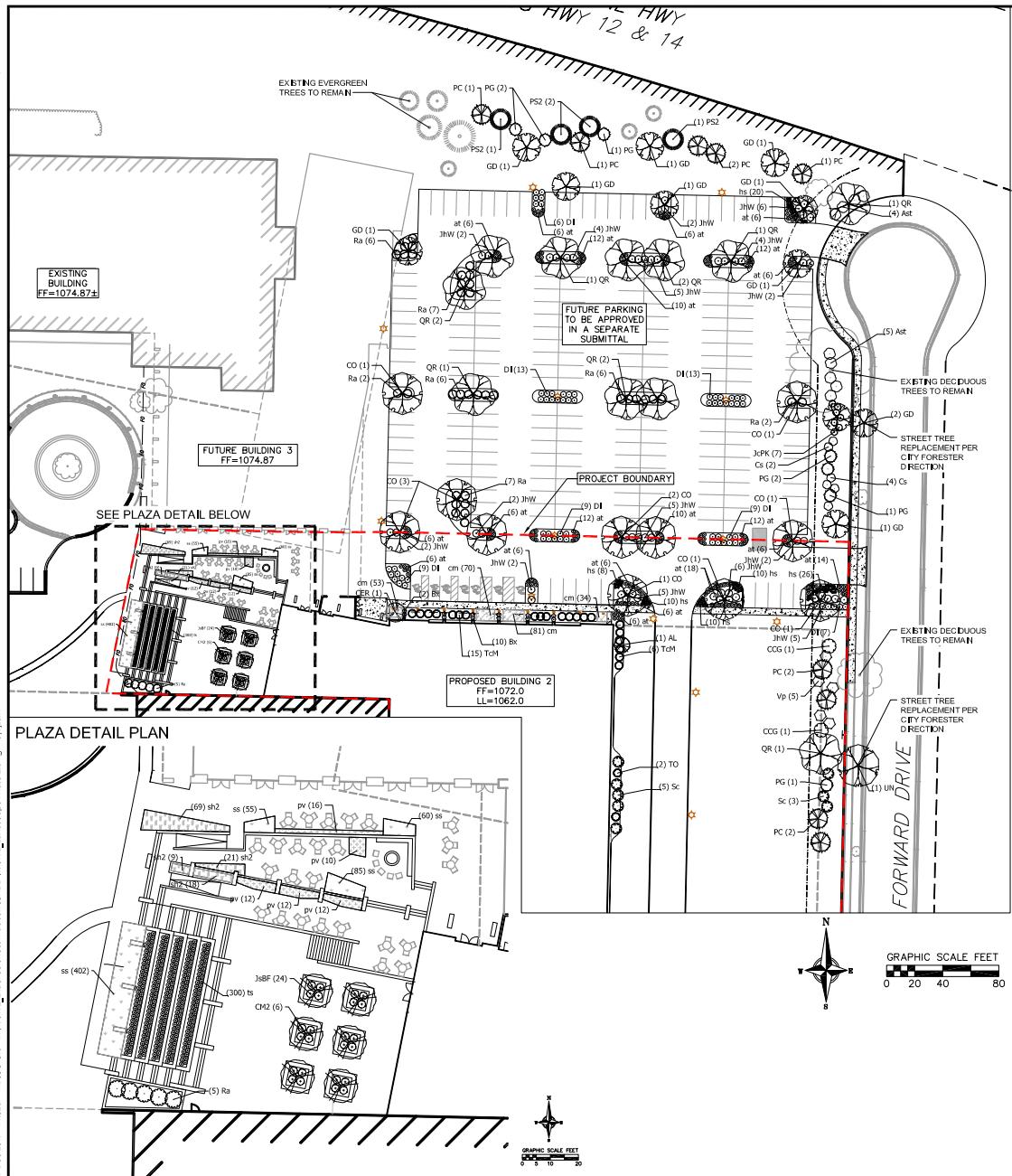
STMH - STORM MANHOLE
FI - FIELD INLET
CI - CURB INLET
CB - CATCH BASIN
EW - ENDWALL
SMH - SANITARY MANHOLE

Utility Plan

Exact Sciences Production Lab

650 Forward Drive Weston, Dane County, Wisconsin

Utility Plan

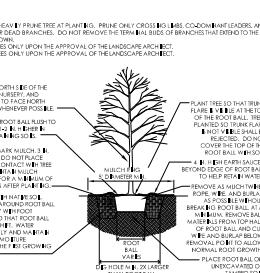


PLANT SCHEDULE

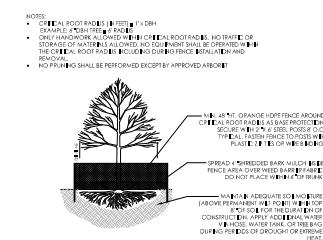
DECIDUOUS TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
Ch	<i>Celtis occidentalis</i> / Common Hackberry	B & B	2.5"Cal	11	
GD	<i>Gymnocladus dioicus</i> 'Espresso' / Kentucky Coffeetree	B & B	2.5"Cal	11	
QR	<i>Quercus rubra</i> / Red Oak	B & B	2.5"Cal	11	
UN	<i>Ulmus x 'New Horizon'</i> / New Horizon Elm	B & B	2"Cal	1	
EVERGREEN TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
PG	<i>Picea glauca</i> / White Spruce	B & B	6" ht.		7
PC	<i>Picea pungens</i> / Colorado Spruce	B & B	6" ht.		9
PS2	<i>Pinus strobus</i> / White Pine	B & B	7" ht.		4
TO	<i>Thuya occidentalis</i> 'Wintergreen' / Wintergreen Arborvitae	B & B	7" ht.		2
FLOWERING TREES	BOTANICAL NAME / COMMON NAME	CONT	CAL	SIZE	QTY
AB	<i>Amelanchier alnifolia</i> / Alnifolia Serviceberry	B & B	6" ht. multi stem		1
CR	<i>Crataegus canadensis</i> / Eastern Redbud	B & B	6" ht. multi stem		1
CM2	<i>Cornus mas</i> / Common Cherry Dogwood	B & B	1.5"Cal		6
CCG	<i>Crataegus crus-galli</i> 'Inornata' / Thornless Hawthorn	B & B	2"Cal		2
SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	QTY
Ast	<i>Amelanchier stolonifera</i> / Running Serviceberry	3 gal	Cont		9
Cs	<i>Cornus sericea</i> / Red Twig Dogwood	5 gal	Cont		6
JrPK	<i>Juniperus chinensis</i> 'Pfitzeriana Kalabs Compacta' / Kelly Pfitzer Compact Juniper	5 gal	Cont		7
Sc	<i>Sambucus canadensis</i> / Elderberry	5 gal	Cont		8
Vp	<i>Viburnum prunifolium</i> / Blackhaw Viburnum	5 gal	Cont		5
ANNUALS/PERENNIALS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	QTY
Ams	<i>Amsinckia tabernaemontana</i> 'Blue Ice' / Blue Ice Star Flower	1 gal	Cont		178
hs	<i>Hemerocallis x 'Stella de Oro'</i> / Stella de Oro Daylily	4" pot	Cont		84
ts	Thymus species / Creeping Thyme	1 ft	2" pot		300
DECIDUOUS SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	QTY
DI	<i>Dixoniella inkensis</i> / Dwarf Bush Honeysuckle	3 gal	Cont		66
Ra	<i>Rhus aromatica</i> 'Gro-Low' / Gro-Low Fragrant Sumac	3 gal	Cont		41
EVERGREEN SHRUBS	BOTANICAL NAME / COMMON NAME	SIZE	FIELD2	FIELD3	QTY
Bm	<i>Buxus x 'Green Mountain'</i> / Boxwood	3 gal	Cont		12
JW	<i>Juniperus horisontalis</i> 'Wisconsin' / Creeping Juniper	3 gal	Cont		54
JsBF	<i>Juniperus sabina</i> 'Blue Forest' / Blue Forest Juniper	3 gal	Cont		24
TcM	<i>Taxus cuspidata</i> 'Monrovia' / Emerald Spreader Japanese Yew	5 gal	Cont		21
GROUND COVERS	BOTANICAL NAME / COMMON NAME	CONT	FIELD2	FIELD3	SPACING QTY
cm	<i>Carex morrowii</i> 'Ice Dance' / Ice Dance Japanese Sedge	1 ft	2" pot		15" o.c. 238
pv	<i>Panicum virgatum</i> 'Shenandoah' / Switch Grass	1 ft	2" pot		24" o.c. 62
ss	<i>Schizachyrium scoparium</i> 'Little Bluestem' Grass	1 ft	2" pot		12" o.c. 602
sh2	<i>Sporobolus heterolepis</i> / Prairie Dropseed	1 ft	2" pot		18" o.c. 117

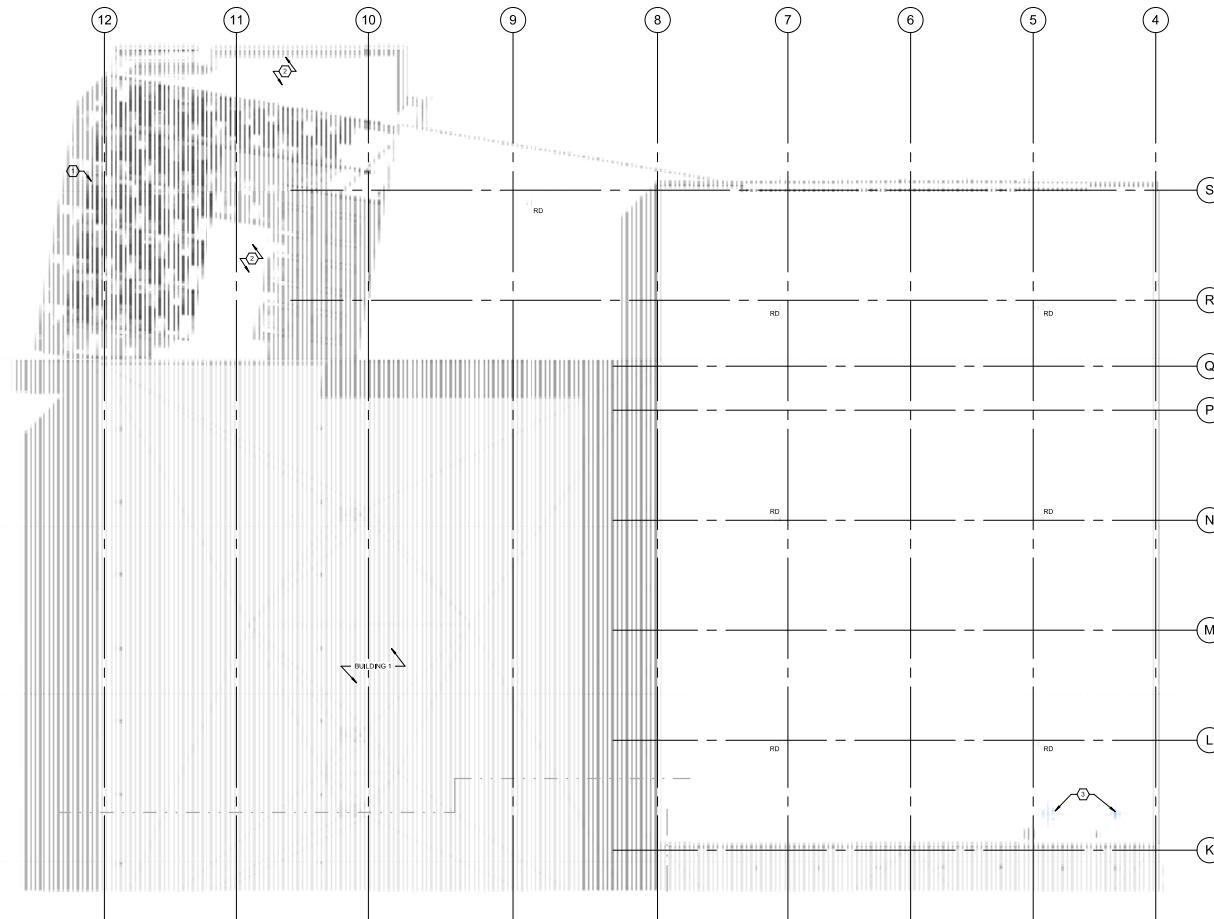
GENERAL NOTES:

1. **Alpinia** shall conform to quality requirements as per ANSI Z61.6.
2. **Alpinia material** shall be true to the species, variety and size specified, nursery grown, and shall be free from diseases, pests, and other practices, and under climatic conditions similar to those on the project.
3. Contact **Landscape Architect**, in writing, to request and plant material substitutions due to availability issues.
4. All disturbed areas, unless otherwise noted, to be seeded with **Markon Parks Mix**, by **Alseed Company** or equivalent, per manufacturer's specified application rates. All seeded areas are to be watered daily to maintain adequate soil moisture for proper germination. After vigorous growth is established, apply $\frac{1}{2}$ " water twice per week for two months.
5. **Alpinia** shall be guaranteed to be in healthy and functioning condition during the growing season following installation (shrub and perennial) or the second growing season following installation (trees). **Alpinia material** shall be guaranteed for one year (shrub and perennial) or two years (trees) from the time of installation.
6. Contractor shall provide a suitable amended topsoil blend for calibrating areas where soil conditions are unsuitable for growth. Topsoil shall conform to the requirements of the **ASCE 21-10** (2011) of the Standard Specifications for Highway Construction. Provide a minimum of 12" of topsoil in alpinia areas and 6" of topsoil in areas to be seeded/sodded.
7. **Landscape beds** to be mulched with undyed shredded hardwood bark mulch to 3" depth min.



3 TREE PROTECTION DETAIL





PRELIMINARY
NOT FOR CONSTRUCTION

2017.01.04

Date: 12/20/2017 Business: Revisions Symbol: UDC SUBMITTAL

ROOF PLAN

2A130.



ELEVATION KEYNOTES:

- 1 PRECAST CONC. PIER W/ TYP. CANTED FINS
- 2 PRECAST CONC. PIER AT AMBIENTER (NOT SHOWN) W/ TYP. CANTED FINS & INTEGRATED CORROUGATED METAL PANEL SUN SCREEN
- 3 PRECAST CONC. RETAINING WALL W/ PLEATED FORM
- 4 PRECAST CONC. WALL W/ TYP. CANTED FINS W/ UPLIFT FORM AT BASE @ 45 DEGREE ANGLE - SEE PRECAST ELEVATIONS FOR FINISH LOCATIONS
- 5 SITE CAST CONC. PLANTER W/ WOOD BENCH TOP
- 6 SITE CAST CONC. RETAINING WALL W/ INTEGRAL PLANTER
- 7 GRANITE VENEER WALL ASSEMBLY
- 8 STEEL TUBE COLUMN - GALVANIZED, PRIMED AND PAINTED
- 9 STEEL BAR GUARD RAIL W/ STEEL ROD RAILS
- 10 METAL FASIA
- 11 CORROUGATED METAL PANEL PARAPET
- 12 WOOD VENEER METAL SOFFIT
- 13 PONY SUPPORTED EU GLAZING SYSTEM - SPIDER CONNECTION ON STEEL SUPPORT FRAME - AT WEST FAÇADE, GLAZED WALL WILL HAVE A CERAMIC FRT PATTERN ON THE IGU
- 14 WINDOW WALL GLAZING SYSTEM
- 15 SPANDREL GLAZING
- 16 STOREFRONT ENTRY SYSTEM
- 17 SKYLIGHT
- 18 PERFORATED INTEGRATED METAL WALL PANEL HUNG FROM PRECAST CONC. WALL
- 19 CORROUGATED METAL WALL PANEL

PRELIMINARY
NOT FOR CONSTRUCTION



Exact Sciences - Production Lab Facility

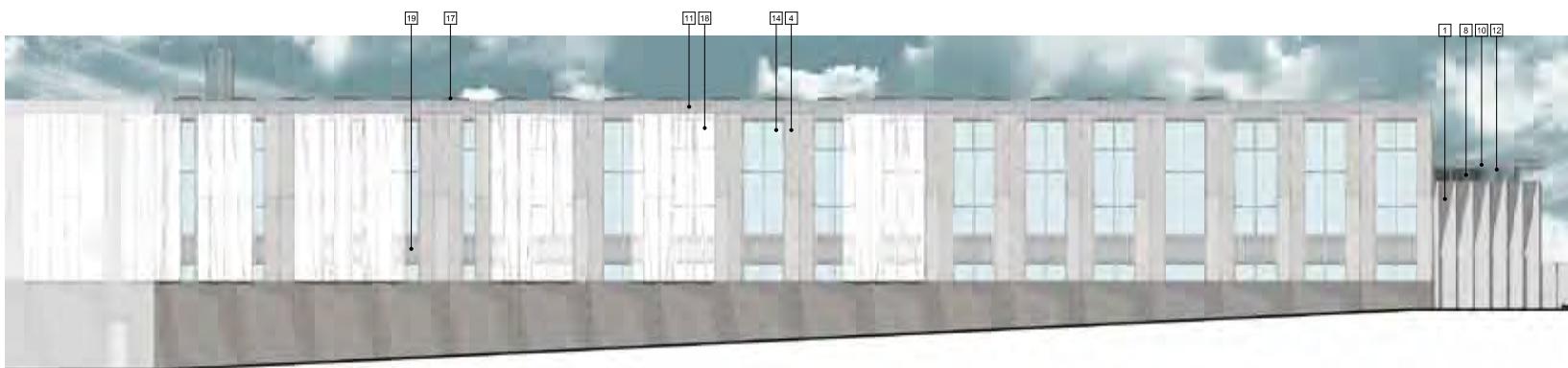
Exact Sciences

650 Forward Drive
Madison, WI 53711

2017.01.04

Date	Issue/Revision	Symbol
12/20/2017	002 SUBMITTAL	

**BUILDING
ELEVATIONS**





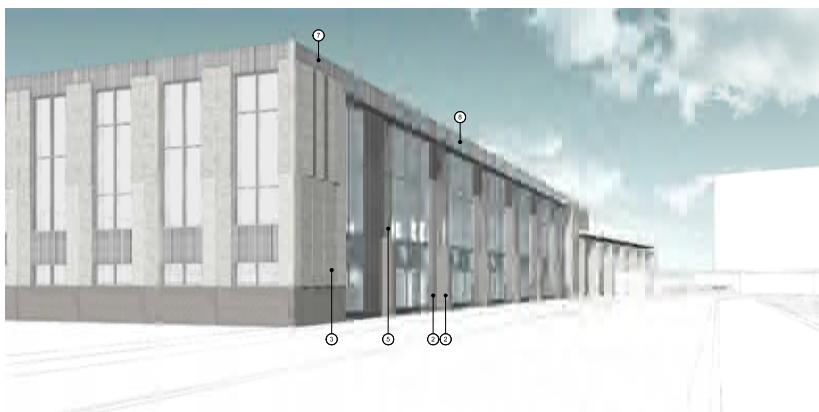
North West Aerial



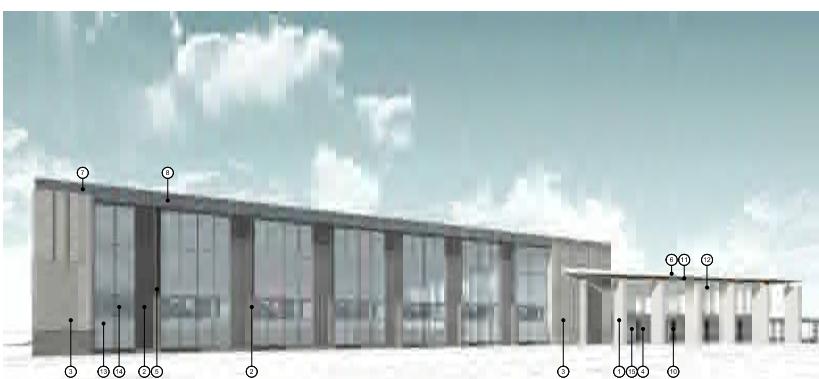
North East Aerial



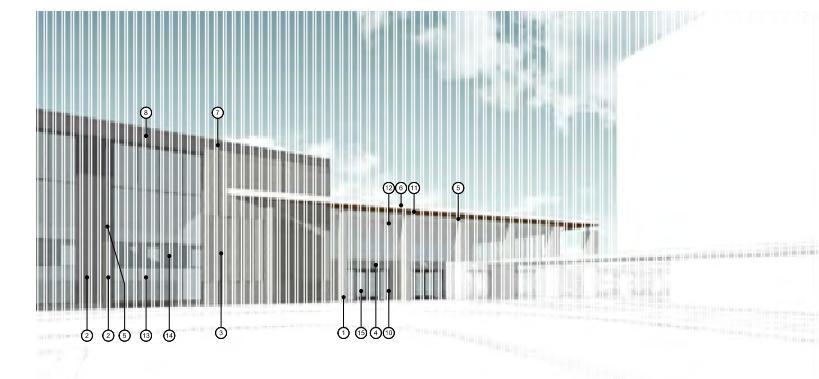
East Perspective



North East Perspective



North Perspective



North Perspective

- ① PRECAST CONC. PIER W/ TYP. CANTED FINS
- ② PRECAST CONC. RETAINING WALL
- ③ PRECAST CONC. WALL W/ TYP. CANTED FINS W/ FILLETED FORMLINE BASE @ 45 DEGREE ANGLE • SEE PRECAST ELEVATIONS FOR FIN LOCATIONS
- ④ GRANITE VENEER WALL ASSEMBLY
- ⑤ STEEL TUBE COLUMN, GALVANIZED, PRIMED AND PAINTED
- ⑥ METAL FASCIA
- ⑦ CORRUGATED METAL PANEL PARAPET
- ⑧ CORRUGATED METAL WALL PANEL
- ⑨ PERFORATED / PLEATED METAL WALL PANEL, HUNG FROM PRECAST CONC. WALL
- ⑩ STEEL ACCENT FRAME
- ⑪ WOOD VENEER METAL SOFFIT
- ⑫ POINT SUPPORTED IGU GLAZING SYSTEM: SPIDER MOUNTED TO STEEL SUPPORT FRAME, AT WEST FACING WALL, GLAZED WALL WILL HAVE A CERAMIC TILT-UP PANEL
- ⑬ WINDOW WALL GLAZING SYSTEM
- ⑭ SPANDREL GLAZING
- ⑮ STOREFRONT ENTRY SYSTEM
- ⑯ STEPPED TERRACE
- ⑰ STEEL PERGOLA
- ⑱ AMPHITHEATER

PRELIMINARY
NOT FOR CONSTRUCTION

Exact Sciences - Production Lab
Facility
Exact Sciences

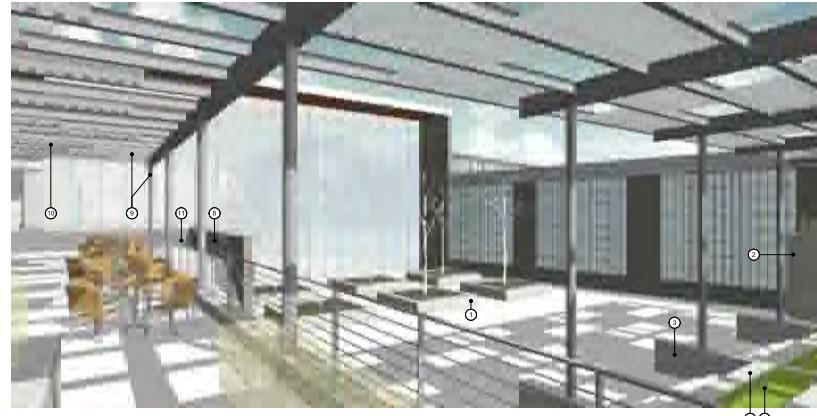
650 Forward Drive
Madison, WI 53711

2017.01.04

BUILDING PERSPECTIVES



Terrace Perspective - 01



Terrace Perspective - 02

PERSPECTIVE KEYNOTES:

- SITE CAST CONCRETE PLANTER W/ WOOD BENCH TOP
- SITE CAST CONCRETE RETAINING WALL W/ INTEGRAL PLANTER
- SITE CAST CONCRETE WALL / STAIRS
- SITE CAST CONCRETE AMPHITHEATER SEAT W/ UNDERSEDE LIGHTING
- PLANTED LANDING W/ CRUSHED GRAVEL WALKWAY
- PRECAST CONCRETE REINFORCED
- PRECAST CONCRETE RETAINING WALL W/ INTEGRAL PLANTER
- GRANITE VENEER WALL ASSEMBLY
- STEEL PERGOLA FRAMING - GALVANIZED, PRIMED AND PAINTED
- PERFORATED, CORROBORATED METAL PANEL SUN SCREEN - GALVANIZED, PRIMED AND PAINTED
- STEEL BAR GUARDRAIL W/ STEEL ROD RAIL
- STEEL BAR HANDRAIL



Terrace Perspective - 03



Terrace Perspective - 04

PRELIMINARY
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Exact Sciences - Production Lab Facility
Exact Sciences

650 Forward Drive
Madison, WI 53711

2017.01.04

Date	Revision Number	Symbol
12/20/2017	002 SUBMITTAL	

**TERRACE
PERSPECTIVES**

2A204



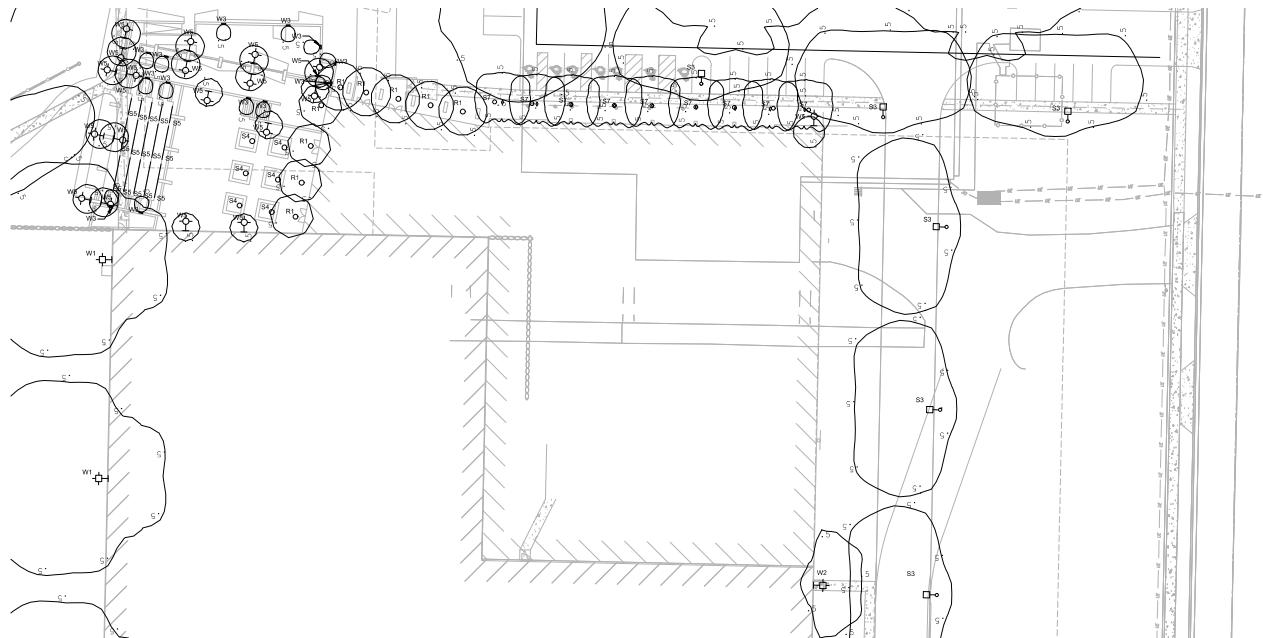
GENERAL NOTES

1. ISOLINES INDICATE 0.5 FC OUTPUT FROM FIXTURE.



5802 Research Park Boulevard
Madison, WI 53719
608-238-2616 aeieng.com

Notes



1 SITE LIGHTING PHASE 2 ISOLINES
SCALE: 1"=50'

Symbol	Tag	Description	Height	Description
○	W5	Wall Cylinder - Downlight	19 AFP	GEA 3608
○	W6	Wall Cylinder (Under Step)	19 AFP	GEA 3608
○	W2	Wall Mount Step Light	12 AFP	DSW2L LED 300 900 300K TSM MVOLT
○	W1	Wall Mount	21 AFP	DSW2L LED 300 1000 300K TTM MVOLT
○	S1	Bollard	4 AFP	DSW2L LED 300 900 300K TSM MVOLT
○	S2	Step Light (Under Step)	4 AFP	DSW2L LED 300 900 300K TSM MVOLT
○	S4	Landscape Accent Light	23 AFP	DSW1 LED 400 700 300K TSM MVOLT HS
○	P1	Post Light	23 AFP	DSW1 LED 400 700 300K TSM MVOLT HS
○	S3	Step Light	23 AFP	DSW1 LED 400 700 300K TSM MVOLT HS

Exact Sciences - Parking Lot at
Forward Drive
Exact Sciences

650 Forward Drive
Madison, WI 53711

2017.09.12

Date: 12/20/2017 Requester/Reason: UDC SUBMITTAL Signed: _____

SITE LIGHTING PHASE 2 ISOLINES



E1002

GENERAL NOTES

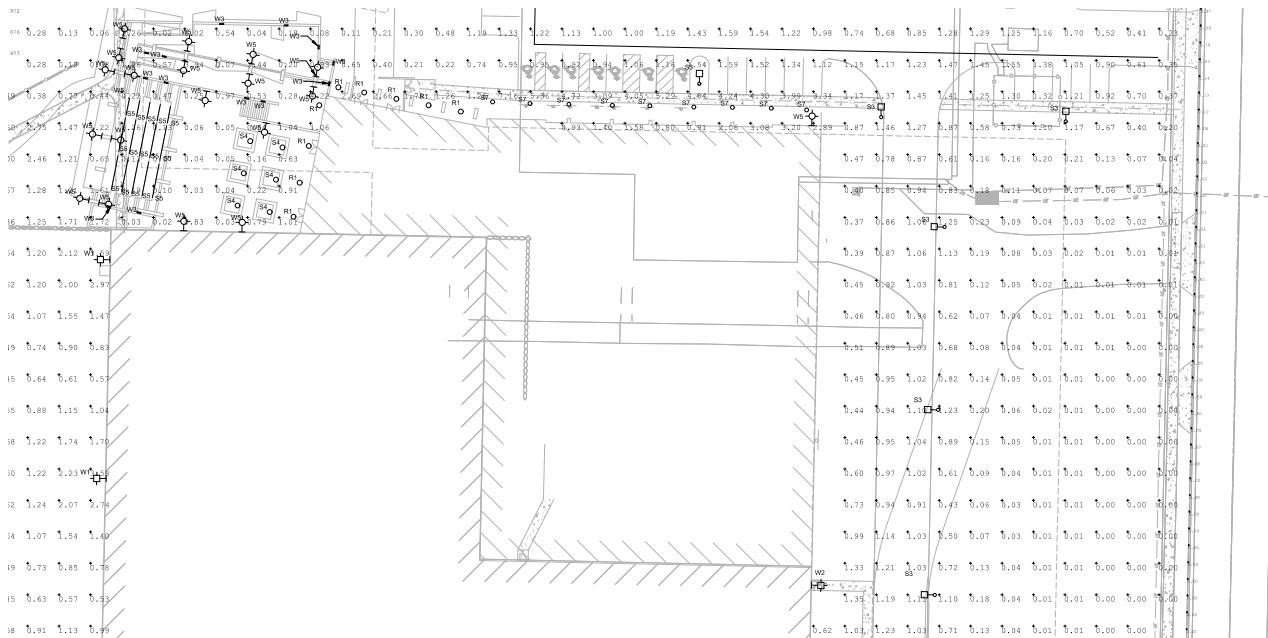
1. NOT USE

**Potter
Lawson**
Success by Design

AEI Affiliated
Engineers

5802 Research Park Boulevard
Madison, WI 53719
608-238-2616 aeieng.com

Notes



1 SITE LIGHTING PHASE 2 POINT BY POINT

LUMINAIRE SCHEDULE					
Symbol	Ref	Description	Height	Quantity	Notes
○	WS-1	Walk Cylinder - Down Light	19' AFF	1	WB
○	WS-2	Recessed Step Light	12' AFF	1	WB
○	WS-3	Walk Cylinder - Up Light	12' AFF	1	WB
○	W1	W1 Mount	21' AFF	1	DSW2 LED 30C 1000 30K TSM MVOLT
○	S7	Bollard	4' AFF	1	DSW2 LED 30C 1000 30K ARST
○	W2	W2 Mount (Under Step)	12' AFF	1	DSW1 LED 40C 700 30K TSM MVOLT IP67
○	S4	Landscape Accent Light	Ground	1	DSX1 LED 40C 700 30K TSM MVOLT HS
○	S3	Pole Light	23' AFF	1	DSX1 LED 30C 300 30K (3) MVOLT HS
○	S6	Pole Light	23' AFF	1	DSX1 LED 30C 300 30K (3) MVOLT HS

Exact Sciences - Parking Lot at
Forward Drive
Exact Sciences

650 Forward Drive
Madison, WI 53711

2017.09.12

Date: 12/20/2017 Initiator/Reason: UDC SUBMITTAL System:

SITE LIGHTING PHASE 2 POINT BY POINT



E1003



R1 - recessed can lights

IC22LED_G4_06LM_30K_90CRI_MVOLT_ZT

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

Dedicated LED, Air-Loc® sealed new construction housing with integral light engine
 • Shallow housing allows for fit in 2 x 6 construction • Can be completely covered with insulation • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets
 • LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims • 5 year limited warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 65W BR30 incandescent

PRODUCT SPECIFICATIONS

LED Light Engine LED array integrated to thermally conductive housing provides uninterrupted heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to housing and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR® requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4000K color temperatures available • 90 CRI minimum.

Optical System Computer-optimized reflector design with high reflectance white finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Wide flood distribution (>70°) shipped as standard with optional optic accessories available and sold separately.

Aesthetic Trim Selections Compatible with wide selection of existing Juno trims
 • Shadow free, knife edge design blends seamlessly into ceiling. • Trims are wet location approved for covered ceiling applications.

LED Driver Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) driver that accommodates input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers
 • Universal voltage driver is dimmable with the use of most 0-10V wall box dimmers
 • For a list of compatible dimmers, see [JUNOICLED-DIM](#) • Mounted between the j-box and housing for easy access and cool operation.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels Certified to the high efficacy requirements of California T24 JA8-2016 with select trims • UL listed for U.S. and Canada through-branch wiring, wet locations (covered ceilings) • Union made • UL and cUL.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance.

Product specifications subject to change without notice.

HOUSING FEATURES

Housing Designed for use in IC (insulated ceiling) or non-IC construction

- Aluminum housing sealed for Air-Loc® compliance • Housing is vertically adjustable to accommodate up to a 2" ceiling thickness.

Junction Box Pre-wired junction box provided with (5) 1/2" and (1) 3/4" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 8 #12 branch circuit conductors
 • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

Mounting Frame 22-gauge die-formed galvanized steel mounting frame

- Rough-in section (junction box, mounting frame, housing and bar hangers) fully assembled for ease of installation.

Real Nail 3 Bar Hangers Telescoping Real Nail® 3 system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings

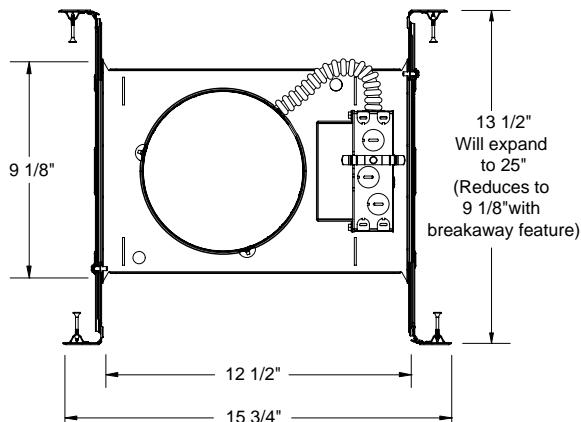
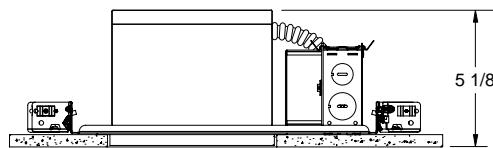
- Includes removable nail for repositioning of fixture in wood joist construction
- Integral T-bar notch and clip for suspended ceilings • Design covered under US Patent D552,969.

6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING

**LENSED TRIMS**

DIMENSIONS



6 7/8" CEILING CUTOUT

ELECTRICAL DATA

Dedicated 120V Only Driver Option

120V

Input Power	8.6W (+/-5%)
Input Current	0.07A
Frequency	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class B (residential)
Minimum starting temp	-25°C

ELECTRICAL DATA

Universal Voltage

120V **277V**

Input Power	8.7W (+/-5%)	8.9W (+/-5%)
Input Current	0.07A	0.04A
Frequency	50/60Hz	50/60Hz
EMI/RFI	FCC Title 47 CFR, Part 15 Class A (commercial)	FCC Title 47 CFR, Part 15 Class A (commercial)
Minimum starting temp	-40°C	-40°C

6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING

IC22LED_G4_06LM_30K_90CRI_MVOLT_ZT

LENSED TRIMS

ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC22LED G4 06LM 27K 90CRI 120 FRPC

Series	Generation	Lumens	Color Temperature	CRI	Voltage	Driver
IC22LED 6" LED New Construction Downlight	G4 Generation 4	06LM 600 Nominal Lumens	27K 2700K	90CRI 90+ CRI	120 120V	FRPC Forward/Reverse Phase Cut
			30K 3000K			MVOLT Multi-Volt (120-277)
			35K 3500K			
			40K 4000K			ZT 0-10V Dimming Driver

Notes: Order 120 with FRPC only, Order MVOLT with ZT only.

Trim/Description

	20 WH	Lensed Albalite Trim - White Trim Ring
	20 PW	Lensed Albalite Trim - Plastic White Trim Ring

	21 WH	Lensed Drop Opal Trim - White Trim Ring
	21 PW	Lensed Drop Opal Trim - Plastic White Trim Ring

	22 WH	Lensed Fresnel Trim - White Trim Ring
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	239 WH ^{1*}	Frosted Lens Trim - White Trim Ring
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	242 WH	Frosted Lens with Clear Center Trim - White Trim Ring
	242 SC	Frosted Lens with Clear Center Trim - Satin Chrome Trim Ring
	242 ABZ	Frosted Lens with Clear Center Trim - Classic Aged Bronze Trim Ring

	243 WH ^{1*}	Decorative Swirled Etched Opal Glass Trim - White Trim Ring
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	2330 WWH ^{1*}	White Baffle Regress Frosted Dome Lens Trim - White Trim Ring
	2330 BWH ^{1*}	Black Baffle Regress Frosted Dome Lens Trim - White Trim Ring

	6101 WH ^{1*}	Lensed Beveled Frame Frosted Dome Lens Trim - White Trim Ring
	6101 SC ^{1*}	Lensed Beveled Frame Frosted Dome Lens Trim - Satin Chrome Trim Ring
	6101 ABZ ^{1*}	Lensed Beveled Frame Frosted Dome Lens Trim - Classic Aged Bronze Trim Ring

Trim Size: 230 - 7 3/8" O.D.; 239, 242, 243 - 7 5/8" O.D.; 6101 - 7 3/4" O.D.; 20, 21, 22 - 8" O.D.

Note: In Canada when insulation is present, Type IC fixtures must be used.

Accessories (ordered separately)

Catalog Number	Description
LEDOPTICG3 MFL	Medium Flood Optic (50")
LEDOPTICG3 NFL	Narrow Flood Optic (37")
LEDOPTICG3 SP	Spot Optic (10")

To order, specify catalog number.

AIR-LOC JUNO IC housings meet IECC Energy Code requirements per ASTM E283.
Air-Loc® rated trims are pre-gasketed for minimum air leakage with IC housings.

UL Listed for use in wet location.

¹ 120V and Multi-Volt: T24 @ 35K and 40K only

*Do not use reflector shipped with trim for LED housing.

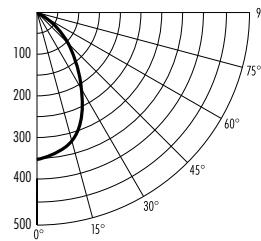
6" IC 600 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC22LED (G4 06LM) RECESSED HOUSING
LENSED TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT10111804R
Catalog No: IC22LED G4 06LM 35K with
239 WH Trim and standard wide flood optic
Luminaire Spacing Criterion: 1.02
Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	353
5	349
15	321
25	264
35	179
45	105
55	62
65	37
75	21
85	4
90	0

Multiplier: 27K - 0.89
30K - 0.94
40K - 1.03

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	37	30	25
5.0'	24	19	16
6.0'	17	13	11
7.0'	13	11	9
8.0'	11	9	7
9.0'	8	7	5
10.0'	6	5	4

INITIAL FOOTCANDLES (One Unit, 8.6W, 70.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	22.1	5.7'
6	9.8	8.5'
8	5.5	11.4'
10	3.5	14.2'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	8114
55	5878
65	4759
75	4342
85	2715

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.



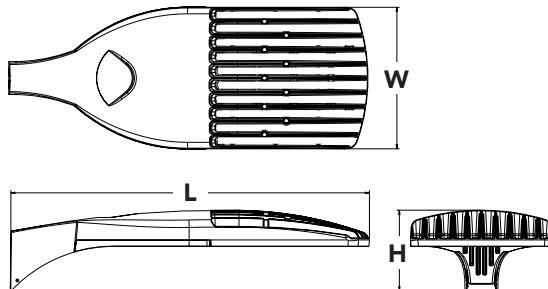
D-Series Size 1 LED Area Luminaire



d"series

Specifications

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



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

DSX1LED	Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Mounting
DSX1 LED	Forward optics	530 530 mA	700 700 mA	30K 3000 K	T1S Type I short	T5S Type V short	MVOLT ⁵
	30C 30 LEDs (one engine)			40K 4000 K	T2S Type II short	T5M Type V medium	120 ⁵
	40C 40 LEDs (two engines)	1000 1000 mA		50K 5000 K	T2M Type II medium	T5W Type V wide	208 ⁵
	60C 60 LEDs (two engines)			AMBPC Amber phosphor converted ³	T3S Type III short	BLC Backlight control ^{2,4}	240 ⁵
	Rotated optics ¹				T3M Type III medium	LCCO Left corner cutoff ^{2,4}	277 ⁵
	60C 60 LEDs (two engines)				T4M Type IV medium	RCCO Right corner cutoff ^{2,4}	347 ⁶
					TFTM Forward throw medium		480 ⁶
					T5VS Type V very short		

Control options	Other options	Finish (required)
Shipped installed	Shipped installed	DDBXD Dark bronze
PER NEMA twist-lock receptacle only (no controls) ⁹	HS House-side shield ¹⁹	DBLXD Black
PER5 Five-wire receptacle only (no controls) ^{9,10}	WTB Utility terminal block ²⁰	DNAXD Natural aluminum
PER7 Seven-wire receptacle only (no controls) ^{9,10}	SF Single fuse (120, 277, 347V) ²¹	DWHXD White
DMG 0-10V dimming driver (no controls) ¹¹	DF Double fuse (208, 240, 480V) ²¹	DBBTXD Textured dark bronze
DCR Dimmable and controllable via ROAM® (no controls) ¹²	L90 Left rotated optics ²²	DBLBXD Textured black
DS Dual switching ^{13,14}	R90 Right rotated optics ²²	DNATXD Textured natural aluminum
PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc ¹⁵	FAO Field adjustable output ¹⁸	DWHGXD Textured white
PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc ¹⁵		
PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ¹⁵		

Accessories <small>Ordered and shipped separately.</small> <ul style="list-style-type: none"> DLL127F 1.5 JU Photocell - SSL twist-lock (120-277V)²⁴ DLL347F 1.5 CUL JU Photocell - SSL twist-lock (347V)²⁴ DLL480F 1.5 CUL JU Photocell - SSL twist-lock (480V)²⁴ DSHORT SBK U Shorting cap²⁴ DSX1HS 30C U House-side shield for 30 LED unit¹⁹ DSX1HS 40C U House-side shield for 40 LED unit¹⁹ DSX1HS 60C U House-side shield for 60 LED unit¹⁹ PUMBA DDBXD U¹ Square and round pole universal mounting bracket (specify finish)²⁵ KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish)⁸ DSX1BS U Bird spikes 	NOTES <ul style="list-style-type: none"> 1 Rotated optics available with 60C only. 2 Not available AMBPC. 3 Only available with 530mA or 700mA. 4 Not available with HS. 5 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options). 6 Not available with single board (300mA) product (30C 350 or 60C 350 mA). Not available with BL30, BL50 or PNMT options. 7 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. 8 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). 9 Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option. 10 If ROAM® 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. 11 DMG option for 347V or 480V requires 1000mA. 12 Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with PIR options, DS, PER5, PER7, BL30, BL50 or PNMT options. Node without integral dimming. 	<small>13 Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH.</small> <small>14 Requires an additional switched circuit.</small> <small>15 PIR and PIR1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see Outdoor Control Technical Guide for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.</small> <small>16 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7 or PNMT options. Not available with PIR1FC3V or PIRH1FC3V.</small> <small>17 Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7, BL30 or BL50. Not available with PIR1FC3V or PIRH1FC3V. Separate on/off required.</small> <small>18 Dimming driver standard. Not available with PER5, PER7, DMG, DCR, DS, BL30, BL50 or PNMT, PIR, PIRH, PIR1FC3V or PIRH1FC3V.</small> <small>19 Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.</small> <small>20 WTB not available with DS.</small> <small>21 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.</small> <small>22 Available with 60 LEDs (60C option) only.</small> <small>23 Also available as a separate accessory; see accessories information.</small> <small>24 Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.</small> <small>25 For retrofit use only.</small>
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For more control options, visit [DTL](#) and [ROAM](#) online.

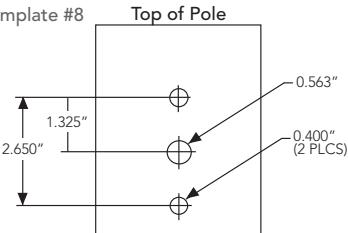


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Drilling

Template #8



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90°*
DM28AS	2 at 180°	DM39AS	3 at 90°*
DM49AS	4 at 90°*	DM32AS	3 at 120°**

Example: SSA 20 4C DM19AS DDBXD

Visit Lithonia Lighting's [POLES CENTRAL](#) to see our wide selection of poles, accessories and educational tools.

*Round pole top must be 3.25" O.D. minimum.

**For round pole mounting (RPA) only.

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

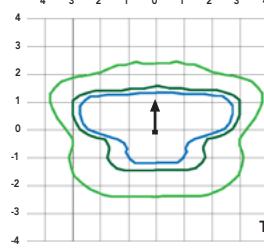
Photometric Diagrams

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

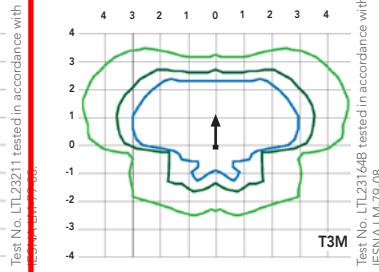
Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').

LEGEND

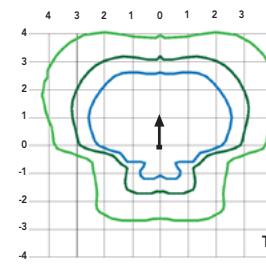
0.1 fc
0.5 fc
1.0 fc



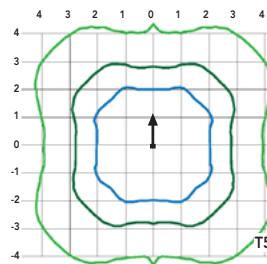
Test No. LTU23231 tested in accordance with IESNA LM-79-08.



Test No. LTU23164B tested in accordance with IESNA LM-79-08.



Test No. LTU23222 tested in accordance with IESNA LM-79-08.



Test No. LTU23271 tested in accordance with IESNA LM-79-08.

S3
(House Shield)

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
10°C	50°F
20°C	68°F
25°C	77°F
30°C	86°F
40°C	104°F

Electrical Load

Number of LEDs	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
30	530	52	0.52	0.30	0.26	0.23	--
	700	68	0.68	0.39	0.34	0.30	0.24
	1000	105	1.03	0.59	0.51	0.45	0.36
40	530	68	0.67	0.39	0.34	0.29	0.23
	700	89	0.89	0.51	0.44	0.38	0.31
	1000	138	1.35	0.78	0.67	0.58	0.47
60	530	99	0.97	0.56	0.48	0.42	0.34
	700	131	1.29	0.74	0.65	0.56	0.45
	1000	209	1.98	1.14	0.99	0.86	0.69
						0.50	

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	25,000	50,000	100,000
DSX1 LED 60C 1000				
Lumen Maintenance Factor	1.0	0.98	0.96	0.91
DSX1 LED 60C 700				
	1.0	0.99	0.99	0.99



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

LEDs	Drive Current (mA)	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					Lumens B U G LPW				
				T1S	5,948	1	0	1	114	6,387	1	0	1	123	6,427	1	0	1	124	3,640	1	0	1
30C (30 LEDs)	530 mA	52 W	T2S	6,132	1	0	1	118	6,585	2	0	2	127	6,626	2	0	2	127	3,813	1	0	1	73
			T2M	5,992	1	0	2	115	6,434	1	0	2	124	6,475	1	0	2	125	3,689	1	0	1	71
			T3S	5,985	1	0	1	115	6,427	1	0	2	124	6,467	1	0	2	124	3,770	1	0	1	73
			T3M	6,039	1	0	2	116	6,485	1	0	2	125	6,525	1	0	2	125	3,752	1	0	1	72
			T4M	6,121	1	0	2	118	6,573	1	0	2	126	6,614	1	0	2	127	3,758	1	0	1	72
			TFTM	6,030	1	0	2	116	6,475	1	0	2	125	6,515	1	0	2	125	3,701	1	0	1	71
			T5VS	6,370	2	0	0	123	6,840	2	0	0	132	6,883	2	0	0	132	3,928	2	0	0	76
			T5S	6,417	2	0	0	123	6,890	2	0	0	133	6,933	2	0	0	133	3,881	2	0	0	75
			T5M	6,428	3	0	1	124	6,902	3	0	1	133	6,945	3	0	1	134	3,930	2	0	1	76
			T5W	6,334	3	0	1	122	6,801	3	0	1	131	6,844	3	0	1	132	3,820	3	0	1	73
			BLC	4,735	1	0	1	91	5,085	1	0	2	98	5,116	1	0	1	98					
			LCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
			RCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
30C (30 LEDs)	700 mA	68 W	T1S	7,554	1	0	1	111	8,112	2	0	2	119	8,163	2	0	2	120	4,561	1	0	1	67
			T2S	7,789	2	0	2	115	8,364	2	0	2	123	8,416	2	0	2	124	4,777	1	0	1	70
			T2M	7,610	1	0	2	112	8,172	2	0	2	120	8,223	2	0	2	121	4,622	1	0	2	68
			T3S	7,601	1	0	2	112	8,162	2	0	2	120	8,213	2	0	2	121	4,724	1	0	1	69
			T3M	7,670	1	0	2	113	8,236	2	0	2	121	8,288	2	0	2	122	4,701	1	0	2	69
			T4M	7,774	1	0	2	114	8,348	2	0	2	123	8,400	2	0	2	124	4,709	1	0	2	69
			TFTM	7,658	1	0	2	113	8,223	1	0	2	121	8,275	1	0	2	122	4,638	1	0	2	68
			T5VS	8,090	2	0	0	119	8,687	3	0	1	128	8,742	3	0	1	129	4,922	2	0	0	72
			T5S	8,150	2	0	0	120	8,751	3	0	0	129	8,806	3	0	0	130	4,863	2	0	0	72
			T5M	8,164	3	0	1	120	8,767	3	0	2	129	8,821	3	0	2	130	4,924	3	0	1	72
			T5W	8,044	3	0	1	118	8,638	3	0	2	127	8,692	3	0	2	128	4,787	3	0	1	70
			BLC	6,028	1	0	2	89	6,473	1	0	2	95	6,514	1	0	2	96					
			LCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93					
			RCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93					
30C (30 LEDs)	1000 mA	105 W	T1S	10,331	2	0	2	98	11,094	2	0	2	106	11,163	2	0	2	106					
			T2S	10,652	2	0	2	101	11,438	2	0	2	109	11,510	2	0	2	110					
			T2M	10,408	2	0	2	99	11,176	2	0	3	106	11,246	2	0	3	107					
			T3S	10,395	2	0	2	99	11,163	2	0	2	106	11,233	2	0	2	107					
			T3M	10,490	2	0	2	100	11,264	2	0	2	107	11,335	2	0	2	108					
			T4M	10,632	2	0	2	101	11,417	2	0	2	109	11,488	2	0	2	109					
			TFTM	10,473	2	0	2	100	11,247	2	0	3	107	11,317	2	0	3	108					
			T5VS	11,064	3	0	1	105	11,881	3	0	1	113	11,955	3	0	1	114					
			T5S	11,145	3	0	1	106	11,968	3	0	1	114	12,043	3	0	1	115					
			T5M	11,165	3	0	2	106	11,989	4	0	2	114	12,064	4	0	2	115					
			T5W	11,001	3	0	2	105	11,813	4	0	2	113	11,887	4	0	2	113					
			BLC	7,960	1	0	2	76	8,548	1	0	2	81	8,601	1	0	2	82					
			LCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80					
			RCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80					

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.

L90 and R90 Rotated Optics

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K (3000 K, 70 CRI)					40K (4000 K, 70 CRI)					50K (5000 K, 70 CRI)					AMPC (Amber Phosphor Converted)				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
530 mA	99 W	99 W	T1S	11,569	2	0	2	117	12,423	2	0	2	125	12,501	2	0	2	126	7,167	2	0	2	72
			T2S	11,928	2	0	2	120	12,809	3	0	3	129	12,889	3	0	3	130	7,507	2	0	2	76
			T2M	11,655	2	0	2	118	12,516	2	0	3	126	12,594	2	0	3	127	7,263	2	0	2	73
			T3S	11,641	2	0	2	118	12,500	2	0	2	126	12,579	2	0	2	127	7,424	2	0	2	75
			T3M	11,747	2	0	2	119	12,614	2	0	2	127	12,693	2	0	2	128	7,387	2	0	2	75
			T4M	11,906	2	0	2	120	12,785	2	0	2	129	12,865	2	0	2	130	7,400	2	0	2	75
			TFTM	11,728	2	0	2	118	12,594	2	0	3	127	12,673	2	0	3	128	7,288	1	0	2	74
			T5VS	12,390	3	0	1	125	13,305	3	0	1	134	13,388	3	0	1	135	7,734	3	0	1	78
			T5S	12,481	3	0	1	126	13,402	3	0	1	135	13,486	3	0	1	136	7,641	3	0	0	77
			T5M	12,503	3	0	2	126	13,426	4	0	2	136	13,510	4	0	2	136	7,737	3	0	2	78
			TSW	12,320	4	0	2	124	13,229	4	0	2	134	13,312	4	0	2	134	7,522	3	0	2	76
			BLC	9,212	1	0	2	93	9,892	1	0	2	100	9,954	1	0	2	101					
			LCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98					
			RCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98					
60C (60 LEDs)	700 mA	131 W	T1S	14,694	2	0	2	112	15,779	3	0	3	120	15,877	3	0	3	121	8,952	2	0	2	68
			T2S	15,150	3	0	3	116	16,269	3	0	3	124	16,370	3	0	3	125	9,377	2	0	2	72
			T2M	14,803	2	0	3	113	15,896	3	0	3	121	15,995	3	0	3	122	9,072	2	0	2	69
			T3S	14,785	2	0	2	113	15,877	3	0	3	121	15,976	3	0	3	122	9,273	2	0	2	71
			T3M	14,919	2	0	2	114	16,021	3	0	3	122	16,121	3	0	3	123	9,227	2	0	2	70
			T4M	15,122	2	0	2	115	16,238	3	0	3	124	16,340	3	0	3	125	9,243	2	0	2	71
			TFTM	14,896	2	0	3	114	15,996	2	0	3	122	16,096	2	0	3	123	9,103	2	0	2	69
			T5VS	15,736	3	0	1	120	16,898	4	0	1	129	17,004	4	0	1	130	9,661	3	0	1	74
			T5S	15,852	3	0	1	121	17,022	4	0	1	130	17,129	4	0	1	131	9,544	3	0	1	73
			T5M	15,880	4	0	2	121	17,052	4	0	2	130	17,159	4	0	2	131	9,665	3	0	2	74
			TSW	15,647	4	0	2	119	16,802	4	0	2	128	16,907	4	0	2	129	9,395	4	0	2	72
			BLC	11,728	1	0	2	90	12,594	1	0	2	96	12,672	3	0	3	97					
			LCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94					
			RCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94					
1000 mA	209 W	209 W	T1S	20,098	3	0	3	96	21,579	3	0	3	103	21,714	3	0	3	104					
			T2S	20,720	3	0	3	99	22,249	3	0	3	106	22,388	3	0	3	107					
			T2M	20,245	3	0	3	97	21,740	3	0	3	104	21,876	3	0	3	105					
			T3S	20,220	3	0	3	97	21,713	3	0	3	104	21,849	3	0	3	105					
			T3M	20,404	3	0	3	98	21,910	3	0	4	105	22,047	3	0	4	105					
			T4M	20,681	3	0	3	99	22,207	3	0	4	106	22,346	3	0	4	107					
			TFTM	20,372	3	0	3	97	21,876	3	0	4	105	22,013	3	0	4	105					
			T5VS	21,521	4	0	1	103	23,110	4	0	1	111	23,254	4	0	1	111					
			T5S	21,679	4	0	1	104	23,280	4	0	1	111	23,425	4	0	1	112					
			T5M	21,717	4	0	2	104	23,321	5	0	3	112	23,466	5	0	3	112					
			TSW	21,399	4	0	3	102	22,979	5	0	3	110	23,122	5	0	3	111					
			BLC	15,487	2	0	2	74	16,630	2	0	2	80	16,734	2	0	3	80					
			LCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78					
			RCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78					

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 ft²) 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) or optional 3000 K (70 minimum CRI) or 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 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L99/100,000 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 or 6kV 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, tool-less entry, 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) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

5-year limited warranty. Complete warranty terms located at 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
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DSX1-LED
Rev. 08/09/16
Page 6 of 6

S4 - landscape accent light

Round Bullet/Square Hood

Accent Lighting

FEATURES

- Unique swivel mount provides superior aiming without loosening over time
- Constructed out of die-cast aluminum with powder coat paint finish for excellent value and rugged service
- Available with a variety of mounting options



LANDSCAPE

ORDERING INFORMATION (Example)

KLVL202

3L3K

BL

HL

EP17

FIXTURE	ELECTRICAL MODULE		FIXTURE FINISH	FIXTURE OPTIONS	MOUNTING OPTIONS
12 VOLT ALUMINUM	Source	Color Temperature	BL Black	HL Hex Cell Louver ²	EP17 Landscape Light Post Mount
KLVL202^{1*} 10W 3 LEDs, 3000K	3L 3 LEDs	3K 3000K	DB Dark Bronze	PL Prismatic Lens ³	KLV400 Spear Mount ⁵
KLVL206^{1*} 10W, 3 LEDs, 3000K		4K 4000K	GR Verde Green	SL Spread Lens ⁴	KLV405 Surface Mount ⁵
		5K 5000K			KLV415 Extension Module ⁵

KLVL202^{1*} 10W 3 LEDs, 3000K

Source	Color Temperature
3L 3 LEDs	3K 3000K
	4K 4000K
	5K 5000K

FIXTURE FINISH

BL Black

DB Dark Bronze

GR Verde Green

FIXTURE OPTIONS

HL Hex Cell Louver²

PL Prismatic Lens³

SL Spread Lens⁴

MOUNTING OPTIONS

EP17 Landscape Light Post Mount

KLV400 Spear Mount⁵

KLV405 Surface Mount⁵

KLV415 Extension Module⁵

¹ Remote transformer required, purchased separately.

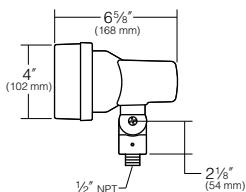
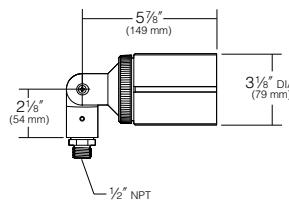
² Inserts behind lens.

³ Replaces standard lens.

⁴ Cannot be used in combination with HL Hex Cell Louver.

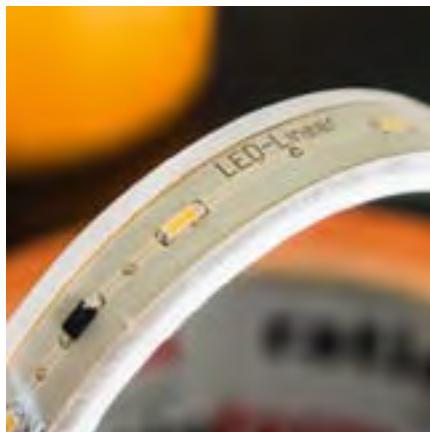
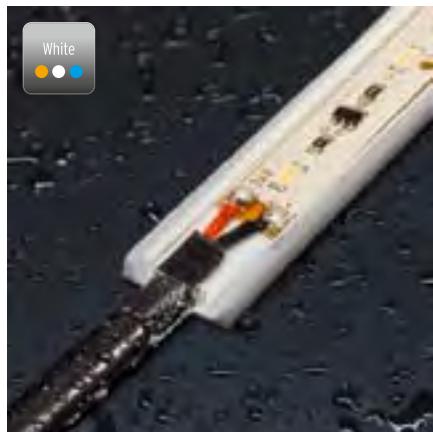
⁵ Specify finish, **BL** - Black, **DB** - Dark Bronze, **GR** - Verde Green.

*Dimmable driver





VarioLED™ Flex ECO LD White IP67



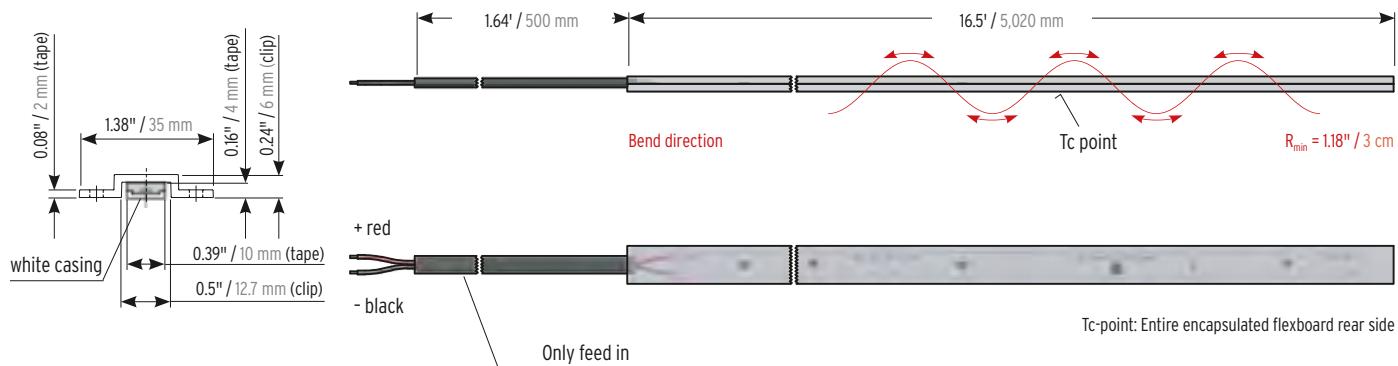
Project name _____

Fixture type _____ Phase _____

Specifier _____ Date _____

- ▶ up to 3.7 W/ft / 12 W/m
- ▶ up to 249 lm/ft / 820 lm/m
- ▶ One Bin Only: 3 MacAdam
- ▶ up to CRI 85

Dimensions & available lengths



Electrical & output data

Step length	4.9" / 6 LED / 125 mm / 6 LED
Voltage	24 Volt (23 V _{min} , 25 V _{max})
Temperature ²	T _{c_min} = -13°F / -25°C, T _{c_max} = 158°F / 70°C
Storage temperature	T _{s_min} = -22°F / -30°C, T _{s_max} = 185°F / 85°C
Ambient temperature	T _{a_min} = -13°F / -25°C, T _{a_max} (Table below)
CRI	85
Ra	20

VarioLED™ Flex HYDRA	LD4	LD12
Power (W/ft / W/m) ¹	1.5 / 5	3.7 / 12
Efficacy (lm/W) @ W850	64	68
max. serial run length (ft / m)	16.4 / 5	13.1 / 4
Current	1 A / 25 mA per Step	2.08 A / 65 mA per Step
max. ambient temperature (T _{a_max})	122°F / 50°C	113°F / 45°C

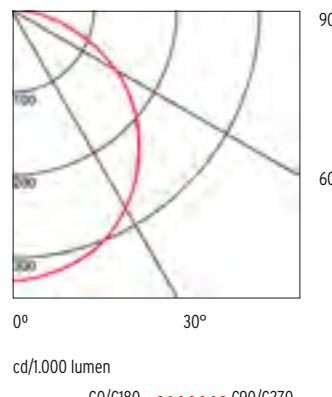
	ONE BIN ONLY		UV protected
	Lifetime		Resistant to solvents
	LM 79 compliant		LM 80 compliant
	Saltwater resistant		Temporary immersion protection

Color temperature LED tape used	Final color temperature delivered for finished fixture	LD4 (low output)	LD12 (high output)
		lumen/feet (lm/ft) ¹	lumen/meter (lm/m) ¹
W822	2200 K	2700 K	87 / 290
W827	2700 K	3300 K	87 / 290
W830	3000 K	3700 K	87 / 290
W835	3500 K	4200 K	90 / 300
W840	4000 K	5800 K	93 / 310
W850	5000 K	9300 K	97 / 320

¹ The given data are typical values. Due to tolerances of the production process and the electrical components, values for light output and electrical power can vary up to 10%.

² The position of the Tc-point is marked on each step of the LED strip. The Tc-point should be measured in thermal equilibrium according to IEC EN 60598-1.

For more details regarding changes, min and max data sheet values and production tolerances please see specification catalogue 2016/2017.



Water & UV resistant flexible linear LED luminaire in polyurethane encapsulation with white casing. 24 V, flexible LED strip with reflective, white surface and a step measurement of 4.9". High quality Japanese LED's with 120° beam angle. Very good color reproduction up to CRI 85 guarantees constant color temperature and light quality at a lifetime of >60,000 hrs (L80/B10). Reel to Reel produced flexible circuit board material with LED Linear™ Tj Away® Technology for optimal heat management. Constant light output and extended lifetime thanks to an integrated circuit (IC) regulation. Protected against electrostatic discharge +/- 2,000 V. Engineered in Germany.

Photo: Alejo Baqué

Please click here to configure your light line online

Order code

VarioLED™ Flex ECO LD White IP67

Your order code	VarioLED Flex ECO	LD__	W8	__	5020	IP67
Order code example	VarioLED Flex ECO	LD4	W8	27	5020	IP67

Variant

LD4	LD4
LD12	LD12

Color rendering

>80	8
-----------	---

Final CCT delivered for finished fixture	Color temperature LED tape used
2700 K	2200 K
3300 K	2700 K
3700 K	3000 K
4200 K	3500 K
5800 K	4000 K
9300 K	5000 K

Length

L = 16.5' (5,020 mm)	5020
----------------------------	------

Ingress protection

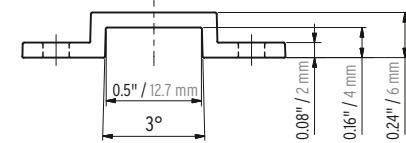
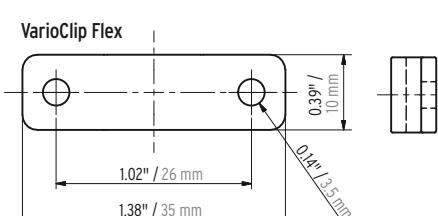
IP67	IP67
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Please choose your accessories

Mounting	Art.-#
<input type="checkbox"/> VarioClip Flex 0.5" / 12.7 mm Clear (Set of 50)	13000115
<input type="checkbox"/> 3M Adhesive tape	182000046

Recommended driver
<input type="checkbox"/> MEAN WELL HLG-100H-24A

Recommended control
<input type="checkbox"/> EldoLED LINEARdrive DC 180D



For further driver options including  [click here](#).

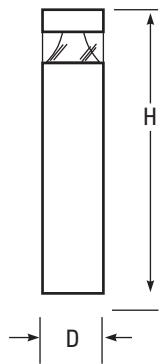


KBR8 LED

LED Specification Bollard

Specifications

8" Round (20.3 cm)
Height: 40" (101.6 cm)
Weight (max): 27 lbs (12.25 kg)



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The KBR8 Bollard is a stylish, fully integrated LED solution for walkways. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 70% in energy savings over comparable 100W metal halide luminaires, the KBR8 Bollard is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: KBR8 LED 16C 700 40K SYM MVOLT DDBXD

KBR8 LED									
Series	LEDs	Drive current	Color temperature	Distribution	Voltage	Control options	Other options	Finish (required)	
KBR8 LED	Asymmetric 12C 12 LEDs ¹	350 350 mA 450 450 mA ^{3,4} 530 530 mA	30K 3000 K 40K 4000 K 50K 5000 K	ASY Asymmetric ¹ SYM Symmetric ²	MVOLT ⁵ 120 ⁵ 208 ⁵ 240 ⁵ 277 ⁵ 347 ⁴	Shipped installed PE Photoelectric cell, button type DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup ⁶	Shipped installed SF Single fuse (120, 277, 347V) ^{4,7} DF Double fuse (208, 240V) ^{4,7} H24 24" overall height H30 30" overall height H36 36" overall height FG Ground-fault festoon outlet L/AB Without anchor bolts (3 bolt base) L/AB4 4 bolt retrofit base without anchor bolts ⁸	DWHXD White DNAXD Natural aluminum DDBXD Dark bronze DBLXD Black DDBTXD Textured dark bronze DBLBXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white	
	Symmetric 16C 16 LEDs ²	700 700 mA	AMBPC Amber phosphor converted AMBLW Amber limited wavelength ^{3,4}						

Accessories

Ordered and shipped separately.

MRAB U Anchor bolts for KBR8 LED⁸

NOTES

- Only available in the 12C, ASY version.
- Only available in the 16C, SYM version.
- Only available with 450 AMBLW version.
- Not available with ELCW.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Not available with 347V. Not available with fusing. Not available with 450 AMBLW.
- Single fuse (SF) requires 120, 277, or 347 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- MRAB U not available with L/AB4 option.

Performance Data

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. Actual performance may differ as a result of end-user environment and application. Actual wattage may differ by +/- 8% when operating between 120-480V +/- 10%.

Light Engines	Drive Current	System Watts	3000 K					4000 K					5000 K					Limited Wavelength Amber				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
Asymmetric 3 Engines (12 LEDs)	350	16	641	40	1	1	1	809	51	1	1	1	870	54	1	1	1					
	530	22	947	43	1	1	1	1,191	54	1	1	1	1,282	58	1	1	1					
	700	31	1,214	40	1	1	1	1,527	51	1	1	1	1,646	55	1	1	1					
	Amber 450	16																324	20	0	1	0
Symmetric 4 Engines (16 LEDs)	350	20	888	44	1	0	0	1,116	56	1	0	0	1,203	60	1	0	0					
	530	28	1,254	45	1	0	0	1,598	57	1	0	1	1,719	61	1	0	1					
	700	39	1,608	41	1	0	1	2,022	52	1	0	1	2,180	56	2	0	1					
	Amber 450	20																374	19	0	0	0

Note: Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97% >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.

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	25,000	50,000	100,000
Lumen Maintenance Factor	1.00	0.98	0.97	0.95

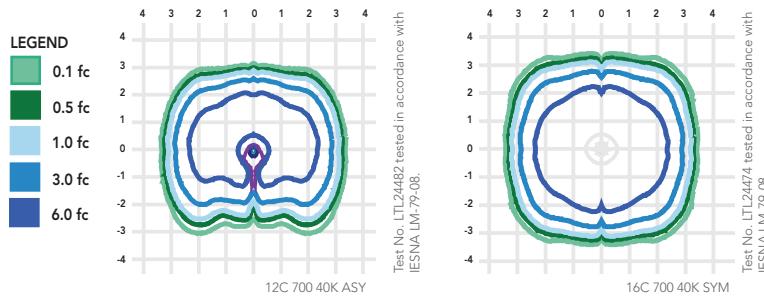
Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)				
			120	208	240	277	347
12C	350	16W	0.158	0.118	0.114	0.109	0.105
	530	22W	0.217	0.146	0.136	0.128	0.118
	700	31W	0.296	0.185	0.168	0.153	0.139
	Amber 450	16W	0.161	0.120	0.115	0.110	0.106
16C	350	20W	0.197	0.137	0.128	0.121	0.114
	530	28W	0.282	0.178	0.162	0.148	0.135
	700	39W	0.385	0.231	0.207	0.185	0.163
	Amber 450	20W	0.199	0.139	0.130	0.123	0.116

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [KBR8 Bollard homepage](#).

Isofootcandle plots for the KB LED Bollards. Distances are in units of mounting height (3').



FEATURES & SPECIFICATIONS

INTENDED USE

The rugged construction and clean lines of the KBA bollard is ideal for illuminating building entryways, walking paths, and pedestrian plazas, as well as any other location requiring a low mounting height light source with fully cutoff illumination.

CONSTRUCTION

One-piece 8-inch round extruded aluminum shaft with thick side walls for extreme durability, a high-impact clear acrylic lens and welded top cap. Die-cast aluminum mounting ring allows for easy leveling even in sloped locations and a full 360-degree rotation for precise alignment during installation. Three 1/2" x 11" anchor bolts with double nuts and washers and 3 3/4" bolt circle template ensure stability. Overall height is 42" standard.

FINISH

Exterior parts are protected by a zinc-infused super durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering for maximum retention of gloss and luster. A tightly controlled multi-stage process ensures a minimum 3-mil thickness for a finish that can withstand the elements without cracking or peeling. Available in both textured and non-textured finishes.

OPTICS

Two fully cutoff optical distributions are available: symmetrical and asymmetrical. IP66 sealed LED light engine provides smoothly graduated illumination without any uplight. Light engines are available in standard 4000 K (>70 CRI) or optional 3000 K (>80 CRI) or 5000 K (67 CRI). Limited-wavelength amber LEDs are also available.

ELECTRICAL

Light engines consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (L95/100,000 hours at 700mA at 25°C). Class 2 electronic drivers are designed for an expected life of 100,000 hours with < 1% failure rate. Electrical components are mounted on a removable power tray.

LISTINGS

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated. Rated for -40°C minimum ambient. Cold-weather emergency battery backup rated for -20°C minimum ambient.

WARRANTY

Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Specifications subject to change without notice.

**d²series**

D-Series Size 2

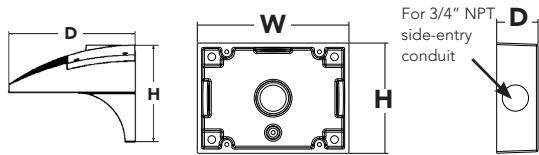
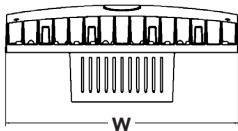
LED Wall Luminaire



Specifications

Luminaire

Width:	18-1/2" (47.0 cm)	Weight:	21 lbs (9.5 kg)
Depth:	10" (25.4 cm)		
Height:	7-5/8" (19.4 cm)		



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: DSXW2 LED 30C 700 40K T3M MVOLT DDBTXD

DSXW2 LED							
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW2 LED	20C 20 LEDs (two engines) 30C 30 LEDs (three engines)	350 350 mA 700 700 mA	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYDF Asymmetric diffuse	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ²	Shipped included (blank) Surface mounting bracket Shipped separately ³ BBW Surface-mounted back box (for conduit entry)	Shipped installed PE Photoelectric cell, button type ⁴ PER NEMA twist-lock receptacle only (no controls) DMG 0-10V dimming driver (no controls) DCR Dimmable and controllable via ROAM [®] (no controls) ⁵ PIRH 180° motion/ambient light sensor, 15-30' mtg ht ⁶ PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁷ PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁷

Other Options		Finish (required)					
Shipped installed	Shipped separately ⁹	DDBXD	Dark bronze	DSSXD	Sandstone	DWHGXD	Textured white
SF Single fuse (120, 277, 347V) ⁸	BSW Bird-deterrent spikes	DBLXD	Black	DDBTXD	Textured dark bronze	DSSTXD	Textured sandstone
DF Double fuse (208, 240, 480V) ⁸	WG Wire guard	DNAXD	Natural aluminum	DBLBXD	Textured black		
HS House-side shield ³	VG Vandal guard	DWHXD	White	DNATXD	Textured natural aluminum		
SPD Separate surge protection ⁹							

Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

A+ 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 interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM[®] 2 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 background¹

To learn more about A+, visit 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](#)

Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ¹⁰
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ¹⁰
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ¹⁰
DSHORT SBK U	Shorting cap ¹⁰
DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW2WG U	Wire guard accessory
DSXW2VG U	Vandal guard accessory
DSXW2BBW	Back box accessory
DBBXD U	(specify finish)

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Available with 30 LED/700mA options only (DSXW2 LED 30C 700). DMG option not available.
- Also available as a separate accessory; see Accessories information.
- Photocontrol (PE) requires 120, 208, 240 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- Specifies a ROAM® enabled luminaire with 0-10V dimming capability; PER option required. Not available with 347V, 480V or PIRH. Additional hardware and services required for ROAM® deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net.
- Specifies the Sensor Switch SBGR-6-ODP control; see [Outdoor Control Technical Guide](#) for details. Includes ambient light sensor. Not available with "PE" option (button type photocell) or DCR. Dimming driver standard. Separate on/off required.
- PIR and PIRH1FC3V specify the SensorSwitch SBGR-10-ODP control; PIRH and PIRH1FC3V specify the SensorSwitch SBGR-6-ODP control; see [Motion Sensor Guide](#) for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- See the electrical section on page 2 for more details.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

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

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.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
20C (20 LEDs)	350 mA	25W	T2S	2,783	1	0	1	111	2,989	1	0	1	120	3,007	1	0	1	120	1,720	1	0	1	69
			T2M	2,708	1	0	1	108	2,908	1	0	1	116	2,926	1	0	1	117	1,673	1	0	1	67
			T3S	2,748	1	0	1	110	2,951	1	0	1	118	2,970	1	0	1	119	1,698	0	0	1	68
			T3M	2,793	1	0	1	112	2,999	1	0	1	120	3,018	1	0	1	121	1,726	1	0	1	69
			T4M	2,756	1	0	1	110	2,959	1	0	1	118	2,978	1	0	1	119	1,703	0	0	1	68
			TFTM	2,754	1	0	1	110	2,957	1	0	1	118	2,975	1	0	1	119	1,701	0	0	1	68
	530 mA	36W	T2S	4,029	1	0	1	112	4,327	1	0	1	120	4,354	1	0	1	121	1,698	0	0	1	68
			T2M	3,920	1	0	1	109	4,210	1	0	1	117	4,236	1	0	1	118	1,726	1	0	1	69
			T3S	3,979	1	0	1	111	4,272	1	0	1	119	4,299	1	0	1	119	1,720	1	0	1	69
			T3M	4,044	1	0	1	112	4,342	1	0	2	121	4,369	1	0	2	121	1,701	0	0	1	68
	700 mA	47W	T4M	3,990	1	0	1	111	4,284	1	0	1	119	4,311	1	0	1	120	1,703	0	0	1	68
			TFTM	3,986	1	0	1	111	4,281	1	0	1	119	4,307	1	0	1	120	1,673	1	0	1	67
			T2S	5,130	1	0	1	109	5,509	1	0	1	117	5,544	1	0	1	118	2,473	1	0	1	69
			T2M	4,991	1	0	1	106	5,360	1	0	1	114	5,393	1	0	2	115	2,406	1	0	1	67
			T3S	5,066	1	0	1	108	5,440	1	0	1	116	5,474	1	0	1	116	2,442	1	0	1	68
			T3M	5,148	1	0	2	110	5,528	1	0	2	118	5,563	1	0	2	118	2,482	1	0	1	69
	1000 mA	74W	T4M	5,080	1	0	1	108	5,455	1	0	1	116	5,489	1	0	2	117	2,449	1	0	1	68
			TFTM	5,076	1	0	1	108	5,450	1	0	1	116	5,484	1	0	2	117	2,447	1	0	1	68
			T2S	7,148	1	0	1	97	7,675	1	0	1	104	7,723	1	0	1	104	3,060	1	0	1	65
			T2M	6,954	1	0	2	94	7,467	1	0	2	101	7,514	2	0	2	102	2,977	1	0	1	63
			T3S	7,058	1	0	1	95	7,579	1	0	1	102	7,626	1	0	2	103	3,021	1	0	1	64
			T3M	7,173	1	0	2	97	7,702	1	0	2	104	7,750	1	0	2	105	3,070	1	0	1	65
	30C (30 LEDs)	54W	T4M	7,077	1	0	2	96	7,599	1	0	2	103	7,647	1	0	2	103	3,029	1	0	1	64
			TFTM	7,071	1	0	2	96	7,593	1	0	2	103	7,641	1	0	2	103	3,027	1	0	1	64
			T2S	4,160	1	0	1	116	4,467	1	0	1	124	4,495	1	0	1	125	2,573	1	0	1	103
			T2M	4,047	1	0	1	112	4,346	1	0	1	121	4,373	1	0	1	121	2,503	1	0	1	100
			T3S	4,107	1	0	1	114	4,411	1	0	1	123	4,438	1	0	1	123	2,541	1	0	1	102
			T3M	4,174	1	0	1	116	4,482	1	0	2	125	4,511	1	0	2	125	2,582	1	0	1	103
			T4M	4,119	1	0	1	114	4,423	1	0	1	123	4,450	1	0	1	124	2,547	1	0	1	102
			TFTM	4,115	1	0	1	114	4,419	1	0	1	123	4,447	1	0	1	124	2,545	1	0	1	102
	700 mA	71W	T2S	6,001	1	0	1	111	6,444	1	0	1	119	6,485	1	0	1	120	2,573	1	0	1	71
			T2M	5,839	1	0	1	108	6,270	1	0	2	116	6,309	1	0	2	117	2,503	1	0	1	70
			T3S	5,926	1	0	1	110	6,363	1	0	1	118	6,403	1	0	1	119	2,541	1	0	1	71
			T3M	6,022	1	0	2	112	6,467	1	0	2	120	6,507	1	0	2	121	2,582	1	0	1	72
			T4M	5,942	1	0	1	110	6,381	1	0	2	118	6,420	1	0	2	119	2,547	1	0	1	71
			TFTM	5,937	1	0	1	110	6,375	1	0	2	118	6,415	1	0	2	119	2,545	1	0	1	71
	1000 mA	109W	T2S	7,609	1	0	1	107	8,170	1	0	1	115	8,221	2	0	2	116	3,696	1	0	1	68
			T2M	7,402	1	0	2	104	7,949	2	0	2	112	7,999	2	0	2	113	3,596	1	0	1	67
			T3S	7,513	1	0	1	106	8,068	1	0	2	114	8,118	1	0	2	114	3,649	1	0	1	68
			T3M	7,635	1	0	2	108	8,199	1	0	2	115	8,250	2	0	3	116	3,709	1	0	2	69
			T4M	7,533	1	0	2	106	8,089	1	0	2	114	8,140	1	0	2	115	3,659	1	0	1	68
			TFTM	7,527	1	0	2	106	8,083	1	0	2	114	8,133	1	0	2	115	3,656	1	0	1	68
			T2S	10,468	2	0	2	96	11,241	2	0	2	103	11,311	2	0	2	104	4,559	1	0	1	64
			T2M	10,184	2	0	2	93	10,936	2	0	2	100	11,004	2	0	2	101	4,436	1	0	2	62
			T3S	10,336	1	0	2	95	11,099	1	0	2	102	11,169	2	0	2	102	4,502	1	0	1	63
			T3M	10,505	2	0	3	96	11,280	2	0	3	103	11,351	2	0	3	104	4,575	1	0	2	64
			T4M	10,364	1	0	2	95	11,129	1	0	2	102	11,199	2	0	2	103	4,514	1	0	2	64
			TFTM	10,356	1	0	2	95	11,120	2	0	2	102	11,190	2	0	2	103	4,510	1	0	1	64

Note:

Available with phosphor-converted amber LED's (nomenclature AMBPC). These LED's produce light with 97%+ >530 nm. Output can be calculated by applying a 0.7 factor to 4000 K lumen values and photometric files.



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	1.02
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

Electrical Load

LEDs	Drive Current (mA)	System Watts	Current (A)					
			120V	208V	240V	277V	347V	480V
20C	350	25 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	-	-
	1000	74 W	0.68	0.39	0.34	0.29	-	-
30C	350	36 W	0.33	0.19	0.17	0.14	-	-
	530	54 W	0.50	0.29	0.25	0.22	-	-
	700	71 W	0.66	0.38	0.33	0.28	0.23	0.16
	1000	109 W	1.01	0.58	0.50	0.44	-	-

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW2 LED 30C 1000** platform 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).

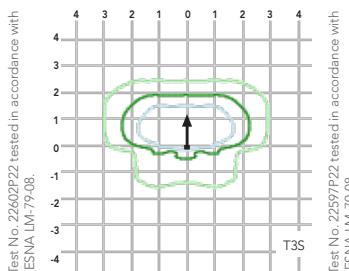
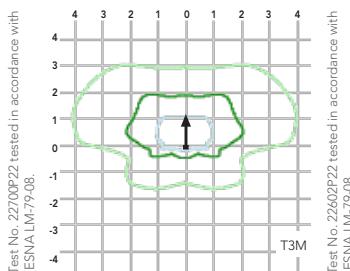
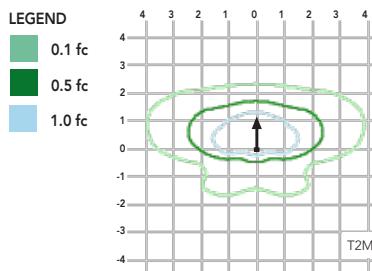
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.92	0.87

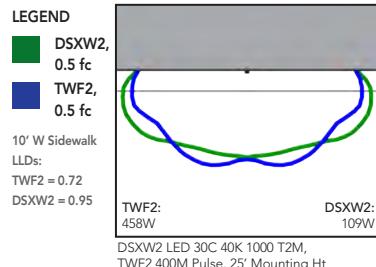
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [D-Series Wall Size 2 homepage](#).

Isofootcandle plots for the DSXW2 LED 30C 1000 40K. Distances are in units of mounting height (25').



Distribution overlay comparison to 400W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 2 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

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 textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). Class 1 electronic drivers have a power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

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

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at 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.



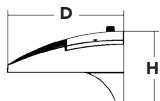
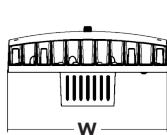
D-Series Size 1 LED Wall Luminaires



d²series

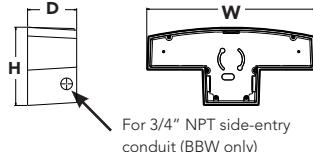
Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		



Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	BBW	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	ELCW	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Catalog
Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSXW1 LED							
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options
DSXW1 LED	10C 10 LEDs (one engine) 20C 20 LEDs (two engines)	350 350 mA 530 530 mA 700 700 mA 1000 1000 mA (1 A)	30K 3000 K 40K 4000 K 50K 5000 K AMBPC Amber phosphor converted	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium TFTM Forward Throw Medium ASYDF Asymmetric diffuse	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ²	Shipped included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ³	Shipped installed PE Photoelectric cell, button type ⁴ DMG 0-10V dimming driver (no controls) PIR 180° motion/ambient light sensor, <15' mtg ht ⁵ PIRH 180° motion/ambient light sensor, 15-30' mtg ht ⁵ PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ³ PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁵ ELCW Emergency battery backup (includes external component enclosure) ⁶

Other Options	Finish (required)
Shipped installed	Shipped separately ⁸
SF Single fuse (120, 277 or 347V) ⁷	BSW Bird-deterrent spikes
DF Double fuse (208, 240 or 480V) ⁷	WG Wire guard
HS House-side shield ⁸	VG Vandal guard
SPD Separate surge protection ⁹	DDL Diffused drop lens
DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

DSXWHS U	House-side shield (one per light engine)
DSXWBSW U	Bird-deterrent spikes
DSXW1WG U	Wire guard accessory
DSXW1VG U	Vandal guard accessory

NOTES

- 1 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- 2 Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- 3 Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- 4 Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- 5 PIR and PIR1FC3V specifies the [Sensor Switch SBRG-10-ODP](#) control; PIRH specifies the [Sensor Switch SBRG-6-ODP](#) control; see [Motion Sensor Guide](#) for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSXW1 LED 20C 1000).
- 6 Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com
- 7 Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- 8 Also available as a separate accessory; see Accessories information.
- 9 See the electrical section on page 3 for more details.

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.

LEDs	Drive Current (mA)	System Watts	Dist. Type	30K					40K					50K					AMBER				
				Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
10C (10 LEDs)	350mA	14W	T2S	1,415	0	0	1	101	1,520	0	0	1	109	1,529	0	0	1	109	894	0	0	1	64
			T2M	1,349	0	0	1	96	1,449	0	0	1	104	1,458	0	0	1	104	852	0	0	1	61
			T3S	1,400	0	0	1	100	1,503	0	0	1	107	1,512	0	0	1	108	884	0	0	1	63
			T3M	1,386	0	0	1	99	1,488	0	0	1	106	1,497	0	0	1	107	876	0	0	1	63
			T4M	1,358	0	0	1	97	1,458	0	0	1	104	1,467	0	0	1	105	858	0	0	1	61
			TFTM	1,411	0	0	1	101	1,515	0	0	1	108	1,525	0	0	1	109	892	0	0	1	64
	530 mA	20W	ASYDF	1,262	0	0	1	90	1,355	1	0	1	97	1,363	1	0	1	97	797	0	0	1	57
			T2S	2,054	1	0	1	103	2,205	1	0	1	110	2,219	1	0	1	111	1,264	0	0	1	63
			T2M	1,957	1	0	1	98	2,102	1	0	1	105	2,115	1	0	1	106	1,205	0	0	1	60
			T3S	2,031	0	0	1	102	2,181	0	0	1	109	2,195	0	0	1	110	1,250	0	0	1	63
(20 LEDs)	700 mA	27W	T3M	2,010	1	0	1	101	2,159	1	0	1	108	2,172	1	0	1	109	1,237	0	0	1	62
			T4M	1,970	1	0	1	99	2,115	1	0	1	106	2,128	0	0	1	106	1,212	0	0	1	61
			TFTM	2,047	0	0	1	102	2,198	0	0	1	110	2,212	0	0	1	111	1,260	0	0	1	63
			ASYDF	1,830	1	0	1	92	1,966	1	0	1	98	1,978	1	0	1	99	1,127	0	0	1	56
			T2S	2,623	1	0	1	97	2,816	1	0	1	104	2,834	1	0	1	105	1,544	0	0	1	57
	1000 mA	40W	T2M	2,499	1	0	1	93	2,684	1	0	1	99	2,701	1	0	1	100	1,472	0	0	1	55
			T3S	2,593	1	0	1	96	2,785	1	0	1	103	2,802	1	0	1	104	1,527	0	0	1	57
			T3M	2,567	1	0	1	95	2,757	1	0	1	102	2,774	1	0	1	103	1,512	0	0	1	56
			T4M	2,515	1	0	1	93	2,701	1	0	1	100	2,718	1	0	1	101	1,481	0	0	1	55
			TFTM	2,614	1	0	1	97	2,807	1	0	1	104	2,825	1	0	1	105	1,539	0	0	1	57
	350mA	24W	ASYDF	2,337	1	0	1	87	2,510	1	0	1	93	2,526	1	0	1	94	1,376	0	0	1	51
			T2S	3,685	1	0	1	92	3,957	1	0	1	99	3,982	1	0	1	100	2,235	1	0	1	58
			T2M	3,512	1	0	1	88	3,771	1	0	1	94	3,795	1	0	1	95	2,130	1	0	2	55
			T3S	3,644	1	0	1	91	3,913	1	0	1	98	3,938	1	0	1	98	2,210	1	0	2	57
			T3M	3,607	1	0	1	90	3,874	1	0	1	97	3,898	1	0	1	97	2,187	1	0	2	56
			T4M	3,534	1	0	1	88	3,795	1	0	1	95	3,819	1	0	1	95	2,143	1	0	2	55
20C (20 LEDs)	530 mA	36W	TFTM	3,674	1	0	1	92	3,945	1	0	1	99	3,969	1	0	1	99	2,228	1	0	2	57
			ASYDF	3,284	1	0	1	82	3,527	1	0	1	88	3,549	1	0	1	89	1,991	1	0	2	51
			T2S	2,820	1	0	1	118	3,028	1	0	1	126	3,047	1	0	1	127	1,777	1	0	1	74
			T2M	2,688	1	0	1	112	2,886	1	0	1	120	2,904	1	0	1	121	1,693	1	0	1	71
			T3S	2,789	1	0	1	116	2,995	1	0	2	125	3,013	1	0	2	126	1,757	0	0	1	73
	700 mA	47W	T3M	2,761	1	0	1	115	2,964	1	0	2	124	2,983	1	0	2	124	1,739	1	0	1	72
			T4M	2,705	1	0	1	113	2,904	1	0	2	121	2,922	1	0	2	122	1,704	1	0	1	71
			TFTM	2,811	1	0	1	117	3,019	1	0	2	126	3,038	1	0	2	127	1,771	0	0	1	74
			ASYDF	2,513	1	0	1	105	2,699	1	0	2	112	2,716	1	0	2	113	1,584	1	0	1	66
			T2S	4,079	1	0	1	113	4,380	1	0	1	122	4,408	1	0	1	122	2,504	1	0	1	70
	1000 mA	74W	T2M	3,887	1	0	1	108	4,174	1	0	1	116	4,200	1	0	1	117	2,387	1	0	1	66
			T3S	4,034	1	0	1	112	4,332	1	0	1	120	4,359	1	0	1	121	2,477	1	0	1	69
			T3M	3,993	1	0	1	111	4,288	1	0	1	119	4,315	1	0	1	120	2,451	1	0	2	68
			T4M	3,912	1	0	2	109	4,201	1	0	2	117	4,227	1	0	1	117	2,402	1	0	1	67
			TFTM	4,066	1	0	1	113	4,367	1	0	1	121	4,394	1	0	1	122	2,496	1	0	1	69
	1000 mA	74W	ASYDF	3,635	1	0	2	101	3,904	1	0	2	108	3,928	1	0	2	109	2,232	1	0	1	62
			T2S	5,188	1	0	1	110	5,571	1	0	1	119	5,606	1	0	1	119	3,065	1	0	1	65
			T2M	4,945	1	0	1	105	5,310	1	0	1	113	5,343	1	0	1	114	2,921	1	0	1	62
			T3S	5,131	1	0	1	109	5,510	1	0	2	117	5,544	1	0	2	118	3,031	1	0	1	64
			T3M	5,079	1	0	2	108	5,454	1	0	2	116	5,488	1	0	2	117	3,000	1	0	1	64
	350mA	47W	T4M	4,976	1	0	2	106	5,343	1	0	2	114	5,377	1	0	2	114	2,939	1	0	1	63
			TFTM	5,172	1	0	2	110	5,554	1	0	2	118	5,589	1	0	2	119	3,055	1	0	1	65
			ASYDF	4,624	1	0	2	98	4,966	1	0	2	106	4,997	1	0	2	106	2,732	1	0	1	58
			T2S	7,205	1	0	1	97	7,736	1	0	1	105	7,785	1	0	1	105	4,429	1	0	1	61
			T2M	6,866	1	0	2	93	7,373	1	0	2	100	7,419	1	0	2	100	4,221	1	0	2	58
	1000 mA	74W	T3S	7,124	1	0	2	96	7,650	1	0	2	103	7,698	1	0	2	104	4,380	1	0	2	60
			T3M	7,052	1	0	2	95	7,736	1	0	2	105	7,620	1	0	2	103	4,335	1	0	2	59
			T4M	6,910	1	0	2	93	7,420	1	0	2	100	7,466	1	0	2	101	4,248	1	0	2	58
			TFTM	7,182	1	0	2	97	7,712	1	0	2	104	7,760	1	0	2	105	4,415	1	0	2	60
			ASYDF	6,421	1	0	2	87	6,895	2	0	2	93	6,938	2	0	2	94	3,947	1	0	2	54

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
10°C	50°F
20°C	68°F
25°C	77°F
30°C	86°F
40°C	104°F

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **DSXW1 LED 20C 1000** platform 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).

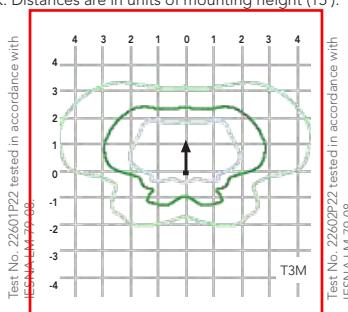
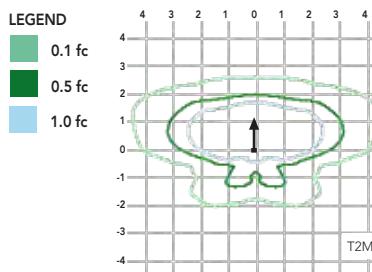
To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.95	0.93	0.88

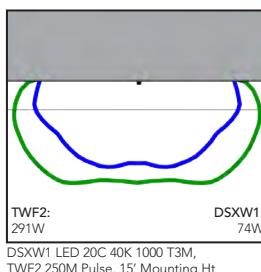
Photometric Diagrams

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

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



Options and Accessories



T3M (left), ASYDF (right) lenses



HS - House-side shields



BSW - Bird-deterrent spikes



WG - Wire guard



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-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. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

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 textured and non-textured finishes.

OPTICS

Precision-molded proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L88/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANSI/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

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

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Complete warranty terms located at 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.

W3 - Inset step light

Recessed wall luminaire

Housing: Constructed of die cast and extruded aluminum with integral wiring compartment. Mounting tabs provided. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: One piece die cast aluminum faceplate, 1/8" thick. Clear tempered glass with translucent white ceramic coating. Faceplate is secured by two (2) socket head, stainless steel, captive screws threaded into stainless steel inserts in the housing casting. Continuous high temperature O-ring gasket for weather tight operation.

Electrical: 6.7 W LED luminaire, 8.5 total system watts, -30°C start temperature. Integral 120 V through 277 V electronic LED driver, 0-10V dimming. The LED and driver are mounted on a removable plate for easy replacement. Standard LED color temperature is 3000K (available in 4000K; add suffix K4). Through Wiring: Maximum four (4) No. 12 AWG conductors (plus ground) suitable for 75°C . Provided with 1/2" NPT threaded conduit entries.

Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

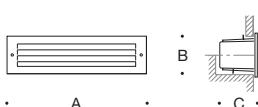
Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. These luminaires are available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

UL listed for US and Canadian Standards, suitable for wet locations and for installation within 3 feet of ground. Type non-IC. Protection class: IP64.

Luminaire Lumens: 10

Tested in accordance with LM-79-08

Type:
BEGA Product:
Project:
Voltage:
Color:
Options:
Modified:



		Lamps	A	B	C
22196	ADA	6.7 W LED	9 1/2	2 1/2	4 1/4



W5 - Wall Mounted Downlight

Wall luminaires with directed light in one direction

Housing: One Piece, die cast aluminum housing with a one piece, die cast aluminum mounting plate. The mounting plate is supplied with a flat plate that mounts directly to a standard, recessed 4" octagonal wiring box. Die castings are marine grade, copper free ($\leq 0.3\%$ copper content) A360.0 aluminum alloy.

Enclosure: Clear tempered glass diffuser. Provided reflector made of pure anodized aluminum. Housing is secured to the mounting plate with two (2) mechanically captive, stainless steel set screws.

Electrical: 6.5W LED luminaire, 8.6 total system watts, -30°C start temperature. Integral 120V through 277V electronic LED driver, 0-10V dimming. LED module(s) are available from factory for easy replacement. Standard LED color temperature is 3000K with an 85 CRI. Available in 4000K (85 CRI); add suffix K4 to order

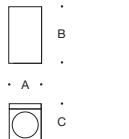
Note: Due to the dynamic nature of LED technology, LED luminaire data on this sheet is subject to change at the discretion of BEGA-US. For the most current technical data, please refer to www.bega-us.com.

Finish: All BEGA standard finishes are polyester powder coat with minimum 3 mil thickness. Available in four standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order.

CSA certified to U.S. and Canadian standards, suitable for wet locations.
Protection class IP64

Weight: 3.5 lbs.

Luminaire Lumens: 173
Tested in accordance with LM-79-08



One-sided light distribution		A	B	C
Lamp	33580	6.5W LED	4 3/8	7 1/2