URBAN DESIGN COMMISSION APPLICATION

UDC

City of Madison
Planning Division
Madison Municipal Building, Suite 017
215 Martin Luther King, Jr. Blvd.
P.O. Box 2985
Madison, WI 53701-2985
(608) 266-4635

FOR OFFICE USE ONLY:

Date Received 5/18/26 11:17 a.m. Initial Submittal

Paid _____ Revised Submittal

Complete all sections of this application, including the desired meeting date and the action requested. If your project requires both UDC and Land Use application submittals, a completed Land Use Application and accompanying submittal materials are also required to be submitted.

If you need an interpreter, translator, materials in alternate formats or other accommodations to access these forms, please call the Planning Division at (608) 266-4635.

Si necesita interprete, traductor, materiales en diferentes formatos, u otro tipo de ayuda para acceder a estos formularios, por favor llame al (608) 266-4635.

Yog tias koj xav tau ib tug neeg txhais lus, tus neeg txhais ntawv, los sis xav tau cov ntaub ntawv ua lwm hom ntawv los sis lwm cov kev pab kom paub txog cov lus qhia no, thov hu rau Koog Npaj (Planning Division) (608) 266-4635.

1. Project Information

Address (list all addresses on the project site): 2430 S. Park St.; 810 W. Badger Rd; 818 W. Badger Rd, Madison, WI 53713

Title: Park Badger Redevelopment

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

UDC meeting date requested 04/15/2026

New development | Alteration to an existing or previously-approved development

Informational | X Initial Approval | X Final Approval

3. Project Type

X 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)

X Planned Multi-Use Site or Residential Building Complex

Signage

Comprehensive Design Review (CDR)

Modifications of Height, Area, and Setback

Sign Exceptions as noted in Sec. 31.043(3), MGO

Other

Please specify

_____

4. Applicant, Agent, and Property Owner Information

Applicant name Matt Wachter Company City of Madison CDA

Street address 215 Martin Luther King Jr Blvd, #161 City/State/Zip Madison, WI 53703

Telephone 608-266-4675 Email mwachter@cityofmadison.com

Project contact person Jacob Morrison Company Potter Lawson, Inc.

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

Telephone 608-274-2741 Email jacobm@potterlawson.com

Property owner (if not applicant) City of Madison CDA

Street address 215 Martin Luther King Jr Blvd, #161 City/State/Zip Madison, WI 53703

Telephone 608-266-4675 Email housing@cityofmadison.com

URBAN DESIGN COMMISSION APPROVAL PROCESS

UDC

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. A request for an Informational Presentation to the UDC may be requested prior to seeking any approvals to obtain early feedback and direction before undertaking detailed design efforts. 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 Modification 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 that 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

The Urban Design Commission meets virtually via Zoom, typically on the second and fourth Wednesdays of each month at 4:30 p.m. Applicant presentations are strongly encouraged, although not required. Prior to the meeting, each individual speaker is required to complete an online registration form to speak at the meeting. A link to complete the online registration will be provided by staff prior to the meeting. Please note that individual presentations will be limited to a **maximum of three (3) minutes**. The pooling of time may be utilized to provide one speaker more time to present, however the additional time will be based on the number of registrants from the applicant team, i.e. two (2) applicant registrants = six (6) minutes for one (1) speaker.

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. Please note that presentation slides, in a PDF file format, are required to be submitted **the Friday before** the UDC meeting.

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

UDC

The items listed below are minimum 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 an 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, including material and color 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
- ☐ 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)
- ☐ Site Plan showing site amenities, fencing, trash, bike parking, etc. (if applicable)
- ☐ PD text and Letter of Intent (if applicable)
- ☐ Samples of the exterior building materials
- ☐ Proposed sign areas and types (if applicable)

4. Signage Approval *(Comprehensive Design Review (CDR), Sign Modifications, and Sign Exceptions (per Sec. 31.043(3))*

- ☐ Locator Map
- ☐ Letter of Intent (a summary of how the proposed signage is consistent with the CDR or Signage Modifications 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)
- ☐ Illustration of the proposed signage that meets Ch. 31, MGO compared to what is being requested
- ☐ Graphic of the proposed signage as it relates to what the Ch. 31, MGO would permit

5. Required Submittal Materials

☐ **Application Form**

- 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.

☐ **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 Comprehensive Design Review (CDR) or Signage Modification review criteria is required.

☐ **Development Plans** (Refer to checklist on Page 4 for plan details)

☐ **Filing Fee** (Refer to Section 7 (below) for a list of application fees by request type)

☐ **Electronic Submittal**

- Complete electronic submittals must be received prior to the application deadline before an application will be scheduled for a UDC meeting. Late materials will not be accepted. All plans must be legible and scalable when reduced. Individual PDF files of each item submitted should be submitted via email to UDCapplications@cityofmadison.com. The email must include the project address, project name, and applicant name.
- Email Size Limits. Note that an individual email cannot exceed 20MB and it is the responsibility of the applicant to present files in a manner that can be accepted. Applicants who are unable to provide the materials electronically should contact the Planning Division at (608) 266-4635 for assistance.

☐ **Notification to the District Alder**

- Please provide an email to the District Alder notifying them that you are filing this UDC application. Please send this as early in the process as possible and provide a copy of that email with the submitted application.

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 Jessica Vaughn and Jenny Kirchgatter on August 1, 2025.
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.

Name of applicant Matt Wachter Relationship to property CDA Executive Director

Authorizing signature of property owner Matthew Wachter Date 3/13/2026

7. Application Filing Fees

Fee payments are due by the submittal date. Payments received after the submittal deadline may result in the submittal being scheduled for the next application review cycle. Fees may be paid in-person, via US Mail, or City drop box. If mailed, please mail to: *City of Madison Building Inspection, P.O. Box 2984, Madison, WI 53701-2984*. The City's drop box is located outside the Municipal Building at 215 Martin Luther King, Jr. Blvd. on the E Doty Street side of the building. Please make checks payable to *City Treasurer*, and include a completed application form or cover letter indicating the project location and applicant information with all checks mailed or submitted via the City's drop box.

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

☐ Urban Design Districts: $350 *(per §33.24(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 Sign Modifications (of 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

Potter Lawson
Success by Design

February 2, 2026
Updated on May 18, 2026

City of Madison
Urban Design Commission Informational Submittal

Re: Letter of Intent for Proposed Development
Corner of S. Park St and W. Badger Rd.
CDA of Madison w/Alexander Company and Captains LLC.

Dear Commission Members and City Staff,

On behalf of the Madison CDA, Alexander Company and Captains LLC, we are pleased to submit the enclosed materials for a new multi-use development located at the corner of S. South Park St and W. Badger Road. This project site has previously been reviewed at the Master Planning level, and we are now returning as part of the first step to implementing that Master Plan. The site we are seeking to get feedback on in this application is Phase 1 of that Master Plan and does not include the site on Hughes Ave. This phase of the project includes ground floor uses for the new Fire Station #6 and Public Health of Madison and Dane County (PHMDC). On the upper floors are 221 affordable apartments that include 46 units designated for senior residents.

Site Description

The site includes the area of the existing bus transfer station as well as the lots located at 810 West Badger Road and 818 West Badger Road (structures on these lots have already been demolished). The site borders South Park Street on the Front and West Badger on the side.

Zoning and Project Description

The site is currently zoned RM-X and is part of the TOD Overlay as well as being UDC Design District #7.

The project is proposed to be a 6-story building, with a large podium containing the public uses (Fire Station and PHMDC as well as the lobby and access to the upper residential floors. There are two levels of underground parking to accommodate 216 parking stalls as well as mechanical space, and storage areas. The parking will serve both the residential tenants as well as staff for the two ground floor tenants and visitors/patients to the PHMDC The upper floors areas will contain 221 apartments at the quantities listed below. In addition to the apartment spaces there will be a common room for the tenants as well as a game room, gym and individual storage spaces for each apartment. The top floor is designated for Seniors and will also have a common-use dayroom for residents of that floor.

Apartment Mix:

- One Bedroom: 180 units
- Two Bedrooms: 25 units

- Three Bedrooms: 16 units

Note – of these units, 46 are on the 6th floor and are designated as the Senior Resident units.

Architectural Design Description

This new building will be located on a prominent corner near the beltline – making it a part of the "gateway" experience in that area that includes Madison College, the Village on Park Street and the Black Business Hub.

Ground Floor

Architecturally, the building is designed to create a strong street-level presence along South Park Street in support of PHMDC's mission to serve the community. At the ground level, shaded canopies clearly mark the primary entrances: the PHMDC entrance at the corner of South Park Street and West Badger Road, and a separate residential entrance on West Badger Road.

While both entrances share a common architectural language, they are intentionally separated to avoid confusion between uses. This separation is reinforced through physical design elements as well as signage. The residential entrance features a deeper canopy that creates a shaded patio at the entry, helping to reduce the perceived scale of the building and introduce a more personal level of detail.

Planting beds are provided at both entries. At the residential entry, the patio includes space for larger plantings, with an opening in the canopy above to allow sunlight and weather to reach the landscape.

Fire Station

The Fire Station apparatus bay is located on the west side of the building. Although it is a single-story space, it has a height of approx. 26' feet to accommodate vehicle clearances. The primary entry to Fire Station 6 is located at the inside corner where the apparatus bay meets the larger portion of the building facing West Badger Road. The remainder of the Fire Station program is housed within the base of the larger building on the ground floor.

Materials

The primary building materials are brick and ribbed metal panels. Cream-colored brick is used on the residential portions of the building, while red brick distinguishes the Fire Station apparatus bay.

Above the ground floor storefront and entry level, the brickwork is detailed with cast stone accents and a vertically oriented, diagonally laid brick band. Upper-floor windows are framed with brick surrounds that project slightly from the adjacent wall plane, adding depth and shadow. The upper floors are organized into two- or three-story "super stories" to soften the overall perceived height of the building.

At the top of the building, the cornice repeats the use of cast stone accents and diagonally laid vertical brick, creating a clearly defined "top" to the structure.

Green metal panels are used to accent portions of the building and provide a more cost-effective alternative to brick. At the lower two floors, the metal panels feature a ribbed box pattern. Above, the panels transition to a standing-seam system with 12-inch spacing at floors three and four, blending into a wider 16-inch spacing at the fifth and sixth floors. At the top of the metal-clad elevations, a two-foot-tall horizontal band of metal panels, combined with horizontal metal accents, creates a subtle "top" that complements—without competing with—the brick cornice on the remainder of the building.

Balconies

Two balcony types are used throughout the project. Within the brick portions of the building, balconies are partially recessed, with approximately one-third of the balcony set into the building volume and the remaining two-thirds projecting beyond the exterior wall. In the metal panel portions of the building, balconies are fully projecting and hung from the façade.

Not all units include balconies; however, more than 50 percent of the residential units are provided with private outdoor space.

Upper Floors and Outdoor Space

The upper residential floors are arranged in a "Z"-shaped footprint, creating two rooftop podiums above the first floor. The north-facing podium functions primarily as a green roof for stormwater retention and includes limited residential access at balcony-sized areas directly outside the adjacent units.

The south-facing courtyard serves as the primary shared outdoor space for residents and includes areas for cooking, dining, seating, and gathering. Additional portions of the roof are dedicated to green roof areas for stormwater retention, along with smaller balcony-sized outdoor spaces adjacent to individual units.

The main common outdoor space is directly connected to the indoor resident common areas on the second floor and is located adjacent to the building's gym.

Rear Access Road

The rear of the building is served by an east-west driveway that runs the length of the site. This access road provides entry to the underground parking garage. Fire vehicles returning from calls will also use this route to access the rear of the apparatus bay, which includes doors on both sides, allowing vehicles to pull through without needing to reverse into the bays.

The access road also accommodates areas for garbage collection, loading, and short-term parking serving the rear entrance of the PHMDC space.

Finally, a fenced half-court basketball court will be located along the north (rear) side of the building for residents' use.

TOD Design Guidelines:

Design + Building Placement

A. Building Setbacks (Principal Building Façade and Street Corner)

More than 30% of the principal façade on S. Park Street and W. Badger Road are within 20' of the property line. On S. Park St. the ground floor has an angled "bump out" that allows the building to meet this requirement.

B. Entrance Orientation

The "primary building entrance" has been designated as the entry door to the Public Health Clinic (PHMDC) and is located within 20' of the property line. It is located facing S. Park St. near the corner with W. Badger Road. The secondary entrances to the Residential area and to the Fire Station are located further to the west on W. Badger Road. All entrances are marked with overhead canopies, and landscaping. In the case of the secondary entrances, they are also set back from the property line.

C. Min. Number of Stories and Height

The building is 6 stories tall except for the Fire Station apparatus bay which is a single story. As a public safety building the Fire Station is exempt from the 2-story minimum requirement, but it should be noted that the apparatus bay is 26' tall (aprox. 2 stories) due to the interior clearance requirements for the vehicles.

D. Automobile Infrastructure

Nearly all parking is located below the building in the underground garage. There are several stalls located on the ground level outside of the building footprint that serve the PHMDC and Fire station – less than 10 total. All of these stalls are located behind the building and/or apparatus bay and away from the primary and secondary streets.

UDD 7 Design Guidelines

1. Setbacks

The building is setback between 10' and 20' along most of the S. Park Street frontage. The angled "bump-out" on the ground floor follows the property line and provides an upper floor setback to the primary faced plane above. Where it is setback more than 10' we are using that space for ramping and stairs to get to the minimum required first floor elevation that is approx. 4' above grade plane. Along the W. Badger Road façade the building is more typically set back between 10'-12' from the property line. Entrances along this side of the building are setback to allow for the required ramping and stairs for accessibility. The apparatus bay on the far west portion of the building is setback more than 50' to allow space for the vehicles to maneuver and be accessed without crossing the sidewalk.

2. Visual Enhancement of Front Yard Setback

The front yard setback on S. Park Street will have landscaping, bike parking and accessible ramps to the building. In the area of the "bump out" where the building comes closer to the front property line the building uses some wood elements to create a warmer appearance at the ground floor where pedestrian visibility is the closest. In addition to these items the north-east corner of the building (where there are no entrances and the building is furthest from the street) is planned to be a small dog friendly area for residents.

3. Front Façade design and Complimentary Materials

All facades are using a combination of the brick and metal panel that is used on the primary face of the building. In areas where the elevations are less prominent the metal panels are used more often, while the other facades that face the street use brick more prominently and the metal panels as accents.

The apparatus bay uses red brick instead of a cream-colored brick. We felt it was a better decision to treat this area as a more distinct part of the design since it has different design requirements when it comes to the specific vehicles used here and its unique internal uses. Both bricks are the same size and will match in coursing.

4. Architectural Details at Ground Level

In addition to some of the details mentioned above in item #2 the building has been designed with more prominent detailing around the entrances and ground floor windows. In the brick portions of the building is a horizontal brick band with diagonally laid vertical bricks with a cast stone concrete trim band above and below, creating a more traditional break between the ground floor and upper stories. Areas where metal siding are used have a deeper box rib panel that provides more shadow and depth to the façade at ground level. In addition, those areas use some curved elements to provide visual relief and additional detail.

Entry areas all receive additional design in the form of landscaping and canopies that help signal where doors are located.

5. Mechanical Equipment and Green Systems

This building is using a geothermal system as its primary heating and cooling energy source. The building will be 100% electric except for the emergency backup generator. As such all mechanical equipment is either under the building or located on the 6th floor roof far enough from the edge to not be visible from the ground. The rooftop will also have solar panels for additional energy generation.

UDC Informational Review Feedback and Design Response (added 5/18/26)

1. Entrances

The two primary entrances to the building at the ground level have been enhanced with some more detail. At both the corner of Park and Badger (the entrance to the Public Health of Madison and Dane County) and further down along Badger Road (at the entrance to the residential component of the building) we have added several details in order to accent those areas slightly more than the surrounding parts of the building.

Currently each entrance is marked by a canopy, with the residential entry being deeper to create a more private "porch" area between the sidewalk and door. To enhance theses areas we have added uplighting under the canopies (see "Lighting" below), added more plantings and planters along the paths pedestrians will take and at those concrete planters we are using a concrete form-liner to create a more three-dimensional "corrugated" face to those planters that will go beyond just a surface or texture treatment and will create shadow and a different style there as compared to the concrete on the other portions of the project.

2. Fire station Apparatus Bay

The design of the fire station apparatus bay on the west side of the building has been reworked in order to bring the design aesthetic of this section of the building into the same style as the rest of the building. The apparatus bay now uses the same size brick that is used

3. Landscaping

4. Lighting

The building is setback between 10' and 20' along most of the S. Park Street frontage. The angled "bump-out" on the ground floor follows

Project Data

Proposed Zoning	RMX – Regional Mixed-Use
Conditional Use Required	None
Urban Design District	7 – specific to this site
Aldermanic District	District 14 – Ald. Noah Lieberman
Building Use	Mixed Use – Public Health Clinic and Fire Station on the ground floor, Residential on floors 2-6.
Building Height	6 stories
Trash Handling	

	2 Enclosed rooms within building volume. one room to be shared by the Fire Station and Residents and the second to be used for the PHMDC, accessed via rear access road.
Residential Rooms	221
Total Vehicle Parking	216
Residential Bicycle Parking	231
Visitor Bicycle Parking	48 – at exterior, near entrances

Thank you for your time and consideration in reviewing our proposed development. We look forward to your feedback and are excited about bringing affordable housing and valuable public services to the south side of Madison. Please do not hesitate to reach out with any questions about this submittal.

Sincerely,

Jacob Morrison, AIA, NCARB, IIDA, NCIDQ
Principal
Potter Lawson Inc.

Park Badger Redevelopment

City of Madison CDA
812 W Badger Road
Madison, WI 53713

2024.22.02

06/03/2026 - UDC INITIAL/FINAL

Drawing Index

C = Issued for Construction
B = Issued for Bidding
R = Issued for Reference Only

DRAWING INDEX - UDC	
Sheet Number	Sheet Name
T-01	COVER DRAWING
C001	EXISTING CONDITIONS SURVEY
C100	NOTES & LEGEND
C200	DEMOLITION PLAN
C300	DIMENSIONED SITE PLAN
C301	ANNOTATED SITE PLAN
C400	GRADING AND EROSION CONTROL PLAN
C401	DETAILED GRADING PLAN
C500	UTILITY PLAN
C600	DETAILS
L001	TREE PROTECTION & REMOVALS PLAN
L100	SITE LAYOUT AND MATERIALS PLAN
L101	ROOF TERRACE LAYOUT & MATERIALS PLAN & ENLARGEMENT
L200	SITE PLANTING PLAN
L201	PLANTING ENLARGEMENT 1
L202	PLANTING ENLARGEEMENT 2 & 3
L203	OVERALL SITE PLANT SCHEDULE & LANDSCAPE WORKSHEET
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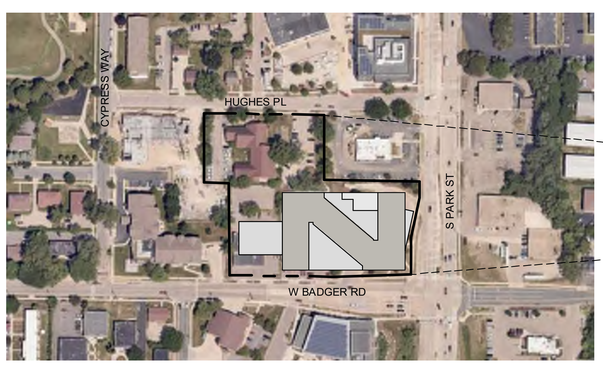
A-2	ARCHITECTURAL SITE PLAN
A-3	PARKING LEVEL 2 - OVERALL
A-4	PARKING LEVEL 1 - OVERALL
A-5	FIRST FLOOR PLAN - OVERALL
A-6	SECOND FLOOR PLAN - OVERALL
A-7	THIRD FLOOR PLAN - OVERALL
A-8	FOURTH FLOOR PLAN - OVERALL
A-9	FIFTH FLOOR PLAN - OVERALL
A-10	SIXTH FLOOR PLAN - OVERALL
A-11	ROOF PLAN - OVERALL
A-12	EXTERIOR ELEVATIONS
A-13	EXTERIOR ELEVATIONS
A-14	COLORED EXTERIOR ELEVATIONS
A-15	COLORED EXTERIOR ELEVATIONS
A-16	EXTERIOR BUILDING MATERIALS
A-17	RENDERINGS
A-18	RENDERINGS

BUILDING INFORMATION			
FLOOR	SQUARE FOOTAGE	PHMDC	FIRE STATION
PARKING - LEVEL 2	53,560 SF		
PARKING - LEVEL 1	53,560 SF		
FIRST FLOOR	68,331 SF	33,041 SF	25,492 SF
SECOND FLOOR	42,058 SF		
THIRD FLOOR	42,022 SF		
FOURTH FLOOR	42,022 SF		
FIFTH FLOOR	42,022 SF		
SIXTH FLOOR	42,022 SF		
TOTAL	385,561 SF	33,041 SF	25,492 SF

UNIT MATRIX				
FLOOR	1 BEDROOM	2 BEDROOM	3 BEDROOM	**TOTAL**
PARKING - LEVEL 2	-	-	-	-
PARKING - LEVEL 1	-	-	-	-
FIRST FLOOR	-	-	-	-
SECOND FLOOR	32	4	4	40
THIRD FLOOR	36	5	4	45
FOURTH FLOOR	36	5	4	45
FIFTH FLOOR	36	5	4	45
SIXTH FLOOR	40	6	0	46
TOTAL	180	25	16	221

PARKING COUNTS		
FLOOR	VEHICLE COUNT	BIKE COUNT
PARKING - LEVEL 2	104	155
PARKING - LEVEL 1	110	62
FIRST FLOOR		52
TOTAL	214	269 INTERIOR + 28 EXTERIOR



NORTH

Architect:
749 University Row Suite 300
Madison, WI 53705
608-274-2741

PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

812 W Badger Road
Madison, WI 53713

2024.22.02

DATE	ISSUANCE/REVISIONS	⚠
12/19/2025	SCHEMATIC DESIGN	1
02/02/2026	UDC INFORMATIONAL	2
03/16/2026	LAND USE APPLICATION	3
06/03/2026	UDC INITIAL/FINAL	5

COVER DRAWING

T-01

5/18/2026 10:17:53 AM

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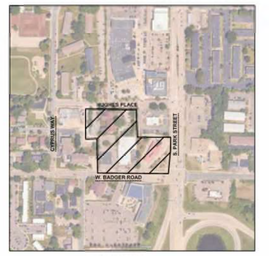
EXISTING CONDITIONS SURVEY

LOT 2 OF CERTIFIED SURVEY MAP No. 16197 AS RECORDED IN VOLUME 119 OF CERTIFIED SURVEY MAPS, ON PAGES 349-354 AS DOCUMENT No. 5882326, DANE COUNTY REGISTER OF DEEDS, AND UNPLATTED LANDS ALL BEING LOCATED IN A PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 07 NORTH, RANGE 09 EAST, CITY OF MADISON, DANE COUNTY, WISCONSIN.



VICINITY MAP
NOT TO SCALE

LEGEND

GOVERNMENT CORNER	FLAG POLE		CONCRETE CURB & GUTTER
1" IRON PIPE FOUND	MAIL BOX		EDGE OF PAVEMENT
¾" REBAR FOUND	POWER POLE		EDGE OF GRAVEL
BENCHMARK	GUY POLE	SAN	SANITARY SEWER
FINISHED FLOOR SHOT LOCATION	TRAFFIC SIGNAL	W	WATER LINE
CHISELED 'X' FOUND	VAULT	ST	STORM SEWER
BOLLARD	TELEPHONE PEDESTAL	FM	FORCE MAIN
MAIL BOX	CABLE PEDESTAL	G	NATURAL GAS
SIGN	TRAFFIC SIGNAL BOX	OH	OVERHEAD LINE
SANITARY MANHOLE	MONITORING WELL	E	UNDERGROUND ELECTRIC
WATER MANHOLE	DECIDUOUS TREE		BUILDING
HYDRANT	CONIFEROUS TREE	875	INDEX CONTOUR
WATER VALVE	HANDICAP PARKING	874	INTERMEDIATE CONTOUR
STORM MANHOLE	PARCEL BOUNDARY		BITUMINOUS PAVEMENT
ROUND CASTED INLET	SECTION LINE		CONCRETE PAVEMENT
SQUARE CASTED INLET	RIGHT-OF-WAY LINE		BRICK PAVEMENT
CURB INLET	PLATTED LOT LINE		GRAVEL
GAS VALVE	CHORD LINE		PAVEMENT STRIPING
ELECTRIC TRANSFORMER	EASEMENT LINE		END OF FLAGGED UTILITIES
LIGHT POLE	LANDSCAPE LIMITS	( )	DENOTES RECORDED AS MEASUREMENTS DEPICTING THE SAME LINE ON THE GROUND AS RETRACED BY THIS SURVEY
YARD LIGHT	FENCE LINE		
ELECTRIC MANHOLE			

NOTES

1. FIELD WORK PERFORMED ON JANUARY 20, 2026
2. BEARINGS FOR THIS SURVEY AND MAP ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE ZONE THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 35 TOWNSHIP 07 NORTH, RANGE 09 EAST, RECORDED AS N89°05'59"W.
3. ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). BENCHMARK IS THE TOP NUT OF A HYDRANT AT THE SOUTHEAST CORNER OF 810 W BADGER ROAD, ELEVATION = 881.80'
4. CONTOUR INTERVAL IS ONE FOOT
5. SUBSURFACE UTILITIES AND FEATURES SHOWN ON THIS MAP HAVE BEEN APPROXIMATED BY LOCATING SURFICIAL FEATURES AND APPURTENANCES, LOCATING DIGGERS HOTLINE FIELD MARKINGS AND BY REFERENCE TO UTILITY RECORDS AND MAPS. DIGGER'S HOTLINE TICKET NOs. 20244911379, 20244911392, 20244911436, 20244911438, 20244911489, 20244911493, 20244911500, 20244911502, 20244911505, 20244911508, 20244911510, 20244911539, 20244911542 AND 20244911551 WITH A CLEAR DATE OF DECEMBER 16, 2024.
6. UTILITY COMPANIES CONTACTED THRU DIGGERS HOTLINE:
   - CHARTER COMMUNICATIONS
   - WISCONSIN DOT SOUTHWEST REGION
   - EXTENET SYSTEMS LLC
   - AT&T
   - LEVEL 3 NOW LUMEN
   - MGE (ELECTRIC AND GAS)
   - WIN, LLC
   - CITY OF MADISON ENGINEERING
   - US SIGNAL
7. BEFORE EXCAVATION, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED. FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS HOTLINE, AT 1.800.242.8511.
8. SITE PLAN RECORDS WERE REQUESTED FROM THE CITY OF MADISON. NO RECORDS WE SUPPLIED FOR THIS SITE.
9. ROADWAY UTILITY RECORD DRAWINGS WERE REQUESTED FROM THE CITY OF MADISON. THE UTILITIES SHOWN REPRESENT FIELD LOCATED UTILITIES IN COMBINATION WITH THE SUPPLIED CITY RECORDS.
10. HUGHES PLACE WAS UNDER CONSTRUCTION AT THE TIME OF FIELD SURVEYWORK BEING PERFORMED, THEREFORE, CONTOURS HAVE NOT BEEN DEPICTED BEYOND THE SOUTH CURB LINE.

LEGAL DESCRIPTION (AS FURNISHED)

(FIRST AMERICAN TITLE INSURANCE COMPANY, FILE No.: NCS-1163603A-MAD, EFFECTIVE DATE: MAY 07, 2024 AT 7:30 A.M., ISSUE DATE: MAY 07, 2024.

TRACT ONE:
PARCEL A:
PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 7 NORTH, RANGE 9 EAST, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, TO-WIT: COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION 35; THENCE NORTH 89°29'27" WEST, 401.34 FEET; THENCE NORTH 00°37'14" WEST, 208.00 FEET TO THE POINT OF BEGINNING; THENCE NORTH 89°29'27" WEST, 133.29 FEET; THENCE NORTH 00°22'32" WEST, 66.00 FEET, THENCE SOUTH 89°29'27" EAST, 133.01 FEET, THENCE SOUTH 00°37'14" EAST, 66.00 FEET TO THE POINT OF BEGINNING.

FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: 818 WEST BADGER ROAD, MADISON, WI
TAX PARCEL NO. 251/0709-352-0315-2

PARCEL B:
PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 7 NORTH, RANGE 9 EAST, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF SAID NORTHWEST 1/4; THENCE NORTH 89°36'24" WEST, 266.70 FEET; THENCE NORTH 89°38'08" WEST, 135.0 FEET TO THE POINT OF BEGINNING; THENCE CONTINUING NORTH 89°38'09" WEST, 134.18 FEET; THENCE NORTH 00°37'29" WEST, 208 FEET; THENCE SOUTH 89°38'09" EAST, 133.29 FEET; THENCE SOUTH 00°52'09" EAST, 208 FEET TO THE POINT OF BEGINNING.

FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: 818 WEST BADGER ROAD, MADISON, WI
TAX PARCEL NO. 251/0709-352-0320-1

TRACT TWO:
LOT TWO (2) OF CERTIFIED SURVEY MAP NO. 16197, RECORDED IN THE OFFICE OF THE REGISTER OF DEEDS FOR DANE COUNTY, WISCONSIN ON JANUARY 13, 2023, IN VOLUME 119 OF CERTIFIED SURVEY MAPS, PAGES 349 THROUGH 354, INCLUSIVE, AS DOCUMENT NO. 5882326; SAID CERTIFIED SURVEY MAP BEING A CONSOLIDATION OF LOT 67 AND PART OF LOT 66 OF FIRST ADDITION TO BURR OAKS, RECORDED IN VOLUME 21 OF PLATS ON PAGES 38 AND 39 AS DOCUMENT NO. 965783, UNPLATTED LANDS DESCRIBED IN A WARRANTY DEED RECORDED ON DECEMBER 28, 2021 AS DOCUMENT NO. 5800862, LANDS DESCRIBED IN A QUIT CLAIM DEED RECORDED ON SEPTEMBER 2, 1999 AS DOCUMENT NO. 3151893, AND LANDS DESCRIBED IN A WARRANTY DEED RECORDED ON DECEMBER 19, 2005 AS DOCUMENT NO. 4144038, ALL LOCATED IN THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER, SECTION 35, TOWN 7 NORTH, RANGE 9 EAST, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN.

FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: 825 HUGHES PLACE AND 810 WEST BADGER ROAD, MADISON WI
TAX PARCEL NO : 251/0709-352-0323-5 (2024 NOT YET ASSESSED), 251/0709-352-0314-4 (UNDERLYING) AND 251/0709-352-0308-7 (UNDERLYING)

TRACT THREE:
PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 OF SECTION 35, TOWNSHIP 7 NORTH, RANGE 9 EAST, IN THE CITY OF MADISON, DANE COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS: COMMENCING AT THE SOUTHEAST CORNER OF THE NORTHWEST 1/4 OF SAID SECTION 35; THENCE NORTH 89° 19' WEST ALONG THE CENTERLINE OF WEST BADGER ROAD FOR A DISTANCE OF 266.7 FEET; THENCE NORTH 00° 19' WEST 286.1 FEET; THENCE SOUTH 89° 19' EAST 266.7 FEET TO THE EAST LINE OF SAID SOUTHEAST 1/4 OF NORTHWEST 1/4; THENCE SOUTH 00° 19' EAST 286.1 FEET ALONG SAID EAST LINE TO THE POINT OF BEGINNING. EXCEPTING THEREFROM THAT PORTION OF LAND CONVEYED IN WARRANTY DEED RECORDED APRIL 13, 1949 IN VOLUME 527, PAGE 268 AS DOCUMENT NO. 779056. ALSO EXCEPTING THEREFROM THAT PORTION OF LAND CONVEYED IN WARRANTY DEED RECORDED JULY 07, 1982 IN VOLUME 3690, PAGE 96 AS DOCUMENT NO. 1745046. FURTHER EXCEPTING THEREFROM THAT PORTION OF LAND CONVEYED IN QUIT CLAIM DEED RECORDED JUNE 18, 1999 AS DOCUMENT NO. 3125316. FURTHER EXCEPTING THEREFROM THAT PORTION OF LAND CONVEYED IN DECLARATION OF CHANCE IN USE TO PUBLIC RIGHT OF WAY RECORDED AUGUST 19, 2010 AS DOCUMENT NO. 4682872.

FOR INFORMATIONAL PURPOSES ONLY:
PROPERTY ADDRESS: 802 WEST BADGER ROAD, MADISON WI
TAX PARCEL NO.: 251/0709-352-0317-8

SURVEYOR'S CERTIFICATE

I, TODD J. BUHR, WISCONSIN PROFESSIONAL LAND SURVEYOR NO. S-2614, HEREBY CERTIFY THAT UNDER THE DIRECTION OF POTTER LAWSON, INC., THIS SURVEY AND MAP HAS BEEN PREPARED AND COMPLIES WITH WISCONSIN ADMINISTRATIVE CODE A-E 7 AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF IN ACCORDANCE WITH THE INFORMATION PROVIDED.

TODD J. BUHR, S-2614
PROFESSIONAL LAND SURVEYOR

DATE

WISCONSIN TODD J. BUHR S-2614 DEFOREST, WI LAND SURVEYOR

north
SCALE IN FEET
30' 0 30'

STORM SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
STM-1	886.98	N	883.93	10"	CCP
		E	883.93	6"	CCP
STM-2	887.97	N	883.47	12"	CCP
		W	884.61	10"	CCP
		S	884.06	6"	CCP
STM-3	888.74	S	882.18	24"	RCP
		W	881.09	30"	RCP
		E	881.08	30"	RCP
STM-4	888.72	S	884.02	12"	RCP
		N	881.03	18"	RCP
		W	880.68	30"	RCP
		E	880.07	30"	RCP
STM-5	886.81	W	879.26	30"	RCP
		NW	873.28	30"	RCP
		E	873.18	42"	RCP
STM-6	885.53	W	873.28	42"	RCP
		E	873.26	42"	RCP
STM-7	881.33	W	872.99	42"	RCP
		S	873.07	12"	RCP
		E	872.97	42"	RCP
STM-8	879.10	N	872.91	42"	RCP
		W	872.86	42"	RCP
STM-9&10	878.93	W	871.82	36"	RCP
		NW	871.95	42"	RCP
		E	871.82	36"	RCP
		SE	871 79	42"	RCP
STM-11	878.64	W	874.99	15"	RCP
		NW	872.09	42"	RCP
		SE	872.07	42"	RCP
STM-12	885.26	W	877.58	24"	RCP
		S	877.34	30"	RCP
		E	877.25	36"	RCP
STM-13	881.58	N	875.72	12"	RCP
		W	875.68	36"	RCP
		S	875.73	18"	RCP
		E	875.55	36"	RCP
STM-14	877.57	NE	873.48	12"	RCP
		NE	873.07	24"	RCP
		W	873.39	12"	RCP
		S	872.88	42"	RCP

STORM SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
STM-15	878.14	W	872.55	36"	RCP
		N	872.52	30"	RCP
		S	872.05	48"	RCP
STM-16	879.29	N	875.38	12"	RCP
		NE	875.38	12"	RCP
		SE	875.38	12"	RCP
		E	875.19	30"	RCP
STM-17	880.03	W	871.06	30"	RCP
		SE	875.55	19"X30"	RCP
		S	874.49	24"	RCP
STM-18	880.39	NW	873.94	19"X30"	RCP
		N	865.43	42"	RCP
		S	873.68	42"	RCP
STM-19	878.17	N	872.42	24"	RCP
		E	872.42	18"	RCP
		SW	871.97	24"	RCP
STM-20	878.35	NE	873.36	24"	RCP
		N	871.80	42"	RCP
		S	871.69	42"	RCP
STM-21	882.41	S	879.50	8"	PVC
STM-22	877.61	N	873.72	24"	RCP
		SW	873.72	24"	RCP
STM-23	878.77	N	874.52	12"	RCP
		S	875.23	12"	RCP
		SW	874.27	18"	RCP
STM-24	878.87	E	874.49	18"	RCP
		W	874.19	18"	RCP
STM-25	877.95	NW	874.95	12"	RCP
		E	874.95	12"	RCP
STM-26	879.73	E	875.84	12"	RCP
		W	875.64	12"	RCP
STM-27	882.63	N	879.05	12"	RCP
STM-28	889.03	NW	886.03	12"	RCP
STM-29	888.69	N	885.49	12"	RCP
		SE	885.51	12"	RCP
STM-30	888.58	N	884.63	12"	RCP
		S	884.63	12"	RCP
STM-31	888.57	N	882.26	6"	PVC
		E	882.37	6"	PVC
STM-32	887.10	NE	882.80	6"	PVC
		SE	882.02	6"	PVC
		SE	882.75	6"	PVC
		E	881.25	12"	RCP
STM-33	879.11	E	882.80	6"	PVC
		S	882.02	6"	PVC

STORM SEWER INLETS

INLET ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
INL-1	888.19	S	882.98	12"	CCP
		N	882.94	12"	CCP
INL-2	876 97	N	872.07	42"	RCP
		SE	872.02	42"	RCP
INL-3	879.34	N	876.81	10"	PVC
INL-4	878.76	S	877.21	8"	CPP
		SW	876.66	10"	PVC
		NE	876.52	12"	RCP
INL-5	878.54	SW	876.20	12"	RCP
INL-6	878.42	W	875.97	12"	RCP
INL-7	877.71	S	875.95	12"	RCP
INL-8	877.74	SE	875.93	12"	RCP
		N	875.83	12"	RCP
INL-9	878.03	S	874.83	6"	PVC
		E	874.65	15"	RCP
		W	874.35	28"	RCP
INL-10	878.69	W	876.27	12"	RCP
INL-11	878.80	E	875.88	12"	RCP
		NW	875.52	12"	RCP
INL-12	877.19	NE	874.10	12"	RCP
		SE	874.10	12"	RCP
INL-13	877 42	NW	873.82	12"	RCP
		E	873.76	12"	RCP
INL-14	876.93	SW	873.77	15"	RCP
INL-15	878.03	S	874.73	12"	RCP
INL-16	877.91	W	874.36	12"	RCP
		N	874.36	12"	RCP
		E	874.36	12"	RCP
		S	873.80	18"	RCP
INL-17	877.92	W	874.37	12"	RCP
INL-18	877.94	E	874.54	12"	RCP
INL-19	880 44	S	877.74	12"	RCP

*DROP PIPE - TOP = INVERT ENTERING STRUCTURE
BOT = INVERT AT BOTTOM OF DROP PIPE

SANITARY SEWER MANHOLES

STRUCT. ID	RIM ELEVATION	INVERT	ELEVATION	PIPE SIZE	PIPE TYPE
SAN-1	888.70	E	880.60	8"	VCP
SAN-2	885 86	W	876.01	8"	VCP
		S	880.22	6"	DI
		S	880.22	6"	DI
		S	878.82	8"	PVC
		S	876.47	8"	PVC
		E	875.99	8"	VCP
SAN-3	879.36	W	872.99	8"	VCP
		N	871.16	8"	PVC
		E	871.03	8"	VCP
SAN-4	880.05	N	869.20	8"	VCP
		W	869.37	8"	VCP
		S	869.17	8"	VCP
SAN-5	878 49	N	865.43	8"	VCP
		S	865.43	8"	VCP
		W	865.41	8"	VCP
SAN-6	885.06	E	872.68	8"	VCP
		W	872.70	8"	VCP
		S	872.72	8"	VCP
SAN-7	879.94	W	870.40	8"	VCP
		N	870.55	6"	VCP
		E	870.29	8"	VCP
SAN-8	878.15	W	866.70	8"	VCP
		S	866.70	8"	VCP
		N	866.67	8"	VCP
SAN-9	878.31	N	869.11	8"	VCP
		S	868.64	8"	VCP
		W	868.61	8"	VCP
SAN-10	877.97	*SW (TOP)	867.23	8"	VCP
		*SW (BOT)	873.32	8"	VCP
		S	865.63	8"	VCP
		N	865.57	8"	VCP

*JSD DOES NOT GUARANTEE THAT THE BENCHMARK ELEVATIONS LISTED ON THIS MAP HAVE NOT BEEN DISTURBED SINCE THE DATE OF THIS SURVEY AND SHOULD BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES.

LINE TABLE

LINE	BEARING	DISTANCE
L1	S00° 14' 13"W	41.51'
L2	N89° 05' 27"W	21.15'
L3	S00° 17' 23"E	33.01'
( )	(N00° 37' 14"W)	
( )	(N00° 52' 09"W	

BENCHMARKS

BENCHMARK	ELEVATION	DESCRIPTION
BM-1	889.11	BURY BOLT ON HYDRANT NORTH OF 825 HUGHES PLACE PARCEL
BM-2	890.33	BURY BOLT ON HYDRANT NORTHWEST OF 825 HUGHES PLACE PARCEL
BM-3	882.48	BURY BOLT ON HYDRANT AT THE NW CORNER OF HUGHES PL AND PARK ST
BM-4	881.80	TOP NUT OF HYDRANT AT SOUTHEAST CORNER OF 810 BADGER ROAD PARCEL

JSD
CREATE THE VISION TELL THE STORY
jsdinc.com
MADISON REGIONAL OFFICE
607 WEST VERONA AVENUE, SUITE 500
VERONA, WISCONSIN 53593
P. 608.848.5060

CLIENT:
POTTER LAWSON, INC.

CLIENT ADDRESS:
749 UNIVERSITY ROW, SUITE 300
MADISON, WI 53705

PROJECT:
S. PARK STREET & W. BADGER ROAD REDEVELOPMENT

PROJECT LOCATION:
MADISON, DANE COUNTY WISCONSIN

MODIFICATIONS:

#	Date:	Description:
1		
2		
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5		
6		
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8		
9		
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11		
12		
13		
14		
15		

Prepared By: SMN 02/05/2026

SHEET TITLE:
EXISTING CONDITIONS SURVEY

SHEET NUMBER:
1 OF 1

PROJECT NO: 24-116003

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File: J:\JSD\Projects\2024\24116003\CIVil\Survey Sheets\24116003 Exist.dwg Layout: 30x42 (3D) User: colton.dalwin Plotted: Mar 12, 2026 - 7:46am XrefS:

GENERAL NOTES

1. REFER TO THE EXISTING CONDITIONS SURVEY FOR EXISTING CONDITIONS NOTES AND LEGENDS.
2. ALL WORK IN THE RIGHT-OF-WAY AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, JURISDICTIONAL SPECIFICATIONS, AND APPROVED BY THE JURISDICTION HAVING AUTHORITY.
3. EXISTING GRADE SPOT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
4. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
5. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.
6. CONTRACTOR SHALL RESTORE ALL BUILDINGS, PAVEMENT, PIPES, SLOPES, AND STRUCTURES DAMAGED BY THE CONTRACTOR TO PRE-EXISTING OR BETTER CONDITIONS.
7. THE RIGHT-OF-WAY IS THE SOLE JURISDICTION OF THE JURISDICTIONAL AUTHORITY AND IS SUBJECT TO CHANGE AT ANY TIME.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF THESE IMPROVEMENTS.
9. ANY REFERENCES TO THE TERMS OR ENTITY ABBREVIATIONS IN THE FOLLOWING NOTES AND SPECIFICATIONS SHALL BE UNDERSTOOD AS FOLLOWS:
   - 9.1. "JURISDICTION" - THE LOCAL GOVERNMENTAL AGENCY (I.E., CITY, VILLAGE, TOWN, COUNTY, STATE, OR UTILITY SERVICE PROVIDER) HAVING AUTHORITY.
   - 9.2. "STATE HIGHWAY SPECIFICATIONS" - STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, CURRENT EDITION AND SUPPLEMENTS.
   - 9.3. "STANDARD SPECIFICATIONS" - STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, CURRENT EDITION AND SUPPLEMENTS.
   - 9.4. WISCONSIN DEPARTMENT OF TRANSPORTATION - "WISDOT"
   - 9.5. WISCONSIN DEPARTMENT OF NATURAL RESOURCES - "WDNR"
   - 9.6. DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES - "DSPS" OR "SPS"

DEMOLITION NOTES

1. THIS PLAN INDICATES ITEMS ON THE PROPERTY INTENDED FOR DEMOLITION BASED ON THE CURRENT SITE DESIGN THAT HAVE BEEN IDENTIFIED BY A REASONABLE OBSERVATION OF THE EXISTING CONDITIONS THROUGH FIELD SURVEY RECONNAISSANCE, "DIGGERS HOTLINE" LOCATION, AND GENERAL "STANDARD OF CARE". THERE MAY BE ADDITIONAL ITEMS THAT CAN NOT BE IDENTIFIED BY A REASONABLE ABOVEGROUND OBSERVATION, OF WHICH THE ENGINEER WOULD HAVE NO KNOWLEDGE OR MAY BE A PART OF ANOTHER DESIGN DISCIPLINE. IT IS THE CONTRACTOR'S/BIDDER'S RESPONSIBILITY TO REVIEW THE PLANS, INSPECT THE SITE, AND PROVIDE THEIR OWN DUE DILIGENCE TO INCLUDE IN THEIR BID WHAT ADDITIONAL ITEMS, IN THEIR OPINION, MAY BE NECESSARY FOR DEMOLITION. ANY ADDITIONAL ITEMS IDENTIFIED BY THE CONTRACTOR/BIDDER SHALL BE IDENTIFIED IN THE BID AND REPORTED TO THE ENGINEER OF RECORD. JSD TAKES NO RESPONSIBILITY FOR ITEMS ON THE PROPERTY THAT COULD NOT BE LOCATED BY A REASONABLE OBSERVATION OF THE PROPERTY OR OF WHICH THEY WOULD HAVE NO KNOWLEDGE.
2. CONTRACTOR SHALL KEEP ALL STREETS AND PRIVATE DRIVES FREE AND CLEAR OF ALL CONSTRUCTION-RELATED DIRT, DUST, AND DEBRIS.
3. ALL TREES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS SPECIFICALLY CALLED OUT FOR PROTECTION. ALL TREES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY. STUMPS MAY BE GROUND TO PROPOSED SUBGRADE IN GRASSED AREAS ONLY UNLESS DIRECTED BY ENGINEER.
4. ALL LIGHT POLES TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY, INCLUDING BASE AND ALL APPURTENANCES. SALVAGE FOR RELOCATION, COORDINATE RELOCATION AND/OR ABANDONMENT OF ALL ELECTRIC LINES WITH ELECTRICAL ENGINEER AND OWNER PRIOR TO DEMOLITION.
5. ABANDONED/REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF OFFSITE UNLESS OTHERWISE NOTED.
6. CONTRACTOR TO REPLACE ALL SIDEWALK AND CURB AND GUTTER ABUTTING THE PROPERTIES THAT WERE DAMAGED BY THE CONSTRUCTION.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO:
   - 7.1. EXAMINE ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED IMMEDIATELY TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
   - 7.2. VERIFY UTILITY ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCIES ARE RESOLVED.
   - 7.3. NOTIFY ALL UTILITIES' OWNERS PRIOR TO THE REMOVAL OF ANY UNDERGROUND UTILITIES.
   - 7.4. NOTIFY THE DESIGN ENGINEER AND LOCAL CONTROLLING MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION.
8. ANY UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR'S SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL COORDINATE PRIVATE UTILITY REMOVAL/ABANDONMENT AND NECESSARY RELOCATION WITH RESPECTIVE UTILITY COMPANY. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES PRIOR TO CONSTRUCTION.
10. ALL DEMOLITION SHALL BE IN ACCORDANCE WITH THE APPROVED JURISDICTION'S RECYCLING PLAN.
11. ANY CONTAMINATED SOILS ENCOUNTERED SHALL BE REMOVED IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS TO AN APPROPRIATE AND APPROVED LANDFILL.
12. ALL EXISTING UTILITIES SHALL BE FIELD LOCATED AND CLEARLY MARKED BY CONTRACTOR PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF ANY DISCREPANCIES OCCUR IN THE LOCATION SHOWN OR PROPOSED IMPROVEMENTS IMPACTING EXISTING UTILITY LINE LOCATION(S). CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING UTILITY LINE OPENINGS (ULO) TO CONFIRM LOCATIONS OR ELEVATIONS, AS REQUESTED BY THE ENGINEER.
13. SEWER ABANDONMENT SHALL BE IN ACCORDANCE WITH SECTION 3.7.24 OF THE STANDARD SPECIFICATIONS AND JURISDICTIONAL SPECIFICATIONS.
14. WATER ABANDONMENT SHALL BE IN ACCORDANCE WITH SECTION 4.14.0 OF THE STANDARD SPECIFICATIONS AND JURISDICTIONAL SPECIFICATIONS.
15. ALL PERIMETER EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO THE START OF DEMOLITION ACTIVITIES. CONTRACTOR SHALL KEEP ALL STREETS AND PAVEMENTS FREE AND CLEAR OF ALL CONSTRUCTION RELATED DIRT, DUST, AND DEBRIS.
16. BUILDING REMOVAL SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR. CONTRACTOR SHALL FOLLOW ALL DEMOLITION REGULATIONS, DISCONNECT ALL UTILITIES, OBTAIN ALL APPLICABLE PERMITS, AND DISPOSE OF ALL BUILDING MATERIALS IN APPROPRIATE AND APPROVED LANDFILLS. DEMOLISHED MATERIALS SHALL NOT BE BURIED ON BURIED ONSITE.
17. CONTRACTOR SHALL REMOVE EXISTING UTILITY PIPE OR PROVIDE PIPE BACKFILLING AFTER REMOVAL OF EXISTING UTILITIES WITHIN BUILDING FOOTPRINT USING "LOW DENSITY CONCRETE/FLOWABLE FILL".
18. RESTORATION OF THE EXISTING ROADWAY RIGHT-OF-WAYS ARE CONSIDERED INCIDENTAL AND SHALL BE PART OF THE COST OF THE UNDERGROUND IMPROVEMENTS, DEMOLITION, AND REMOVAL. THIS INCLUDES CURB AND GUTTER, SIDEWALK, TOPSOIL, SEEDING, AND MULCHING.

CONSTRUCTION SEQUENCING

1. INSTALL PERIMETER SILT FENCE, WATTLES, INLET PROTECTION, AND CONSTRUCTION ENTRANCE.
2. STRIP AND STOCKPILE TOPSOIL AND INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
3. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES.
4. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
5. COMPLETE FINAL GRADING, INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
6. PLACE TOPSOIL AND IMMEDIATELY STABILIZE DISTURBED AREAS WITH EROSION CONTROL MEASURES AS INDICATED ON PLANS.
7. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED ON 70% CONTIGUOUS VEGETATIVE COVER IS ESTABLISHED.

CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM NO. 1 AS NEEDED TO COMPLETE CONSTRUCTION IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS.

PAVING NOTES

1. GENERAL:
   - 1.1. PAVING SHALL CONFORM TO STATE HIGHWAY SPECIFICATIONS, APPLICABLE JURISDICTIONAL SPECIFICATIONS, AND THE GEOTECHNICAL REPORT PREPARED BY CGC INC., PROJECT #C25051-5, ISSUE DATED JUNE 12, 2025. ALL REFERENCES TO THE "GEOTECHNICAL REPORT" SHALL BE UNDERSTOOD AS THE ABOVEMENTIONED REPORT.
   - 1.2. ALL PAVING DIMENSIONS ARE TO FACE OF CURB UNLESS SPECIFIED OTHERWISE.
   - 1.3. ALL SPOT GRADES ARE TO EDGE OF PAVEMENT UNLESS SPECIFIED OTHERWISE.
   - 1.4. SUBFACE PREPARATION - NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
   - 1.5. ANY REQUIRED REPLACEMENT OF PUBLIC CURB AND GUTTER, PAVEMENT, OR SIDEWALK SHALL MATCH EXISTING AND MEET JURISDICTIONAL REQUIREMENTS.
2. CRUSHED AGGREGATE BASE COURSE SPECIFICATIONS:
   - 2.1. THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305 OF THE STATE HIGHWAY SPECIFICATIONS.
   - 2.2. RECLAIMED OR RECYCLED ASPHALT MAY NOT BE USED AS CRUSHED AGGREGATE BASE COURSE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. USE OR ANY OTHER RECYCLED OR BLENDED MATERIAL MUST FIRST BE APPROVED BY ENGINEER OF RECORD.
   - 2.3. DO NOT PLACE BASE ON FROZEN FOUNDATIONS UNLESS THE ENGINEER APPROVES OTHERWISE.
   - 2.4. DO NOT PLACE BASE ON FOUNDATIONS THAT ARE SOFT, SPONGY, OR COVERED BY ICE OR SNOW.
3. CONCRETE PAVING SPECIFICATIONS:
   - 3.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF SECTIONS 405, 415, AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
   - 3.2. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
   - 3.3. CONTRACTOR SHALL PROVIDE A JOINTING PLAN TO ENGINEER IF NOT INCLUDED IN THE PLANS. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF CHP-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 15' ON CENTER.
   - 3.4. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 100' APART.
   - 3.5. PLACE EXPANSION JOINTS IN CURB, GUTTER, OR CURB AND GUTTER CONSTRUCTED NEXT TO ASPHALTIC PAVEMENT OR SURFACING. LOCATE JOINTS EVERYWHERE THAT TANGENT AND RADIAL CURB OR CURB AND GUTTER MEET, ON EACH SIDE OF EVERY INLET 3' FROM THE INLET, BUT NO CLOSER THAN 6' FROM ANOTHER JOINT, AND ON TANGENT ALIGNMENT PLACE BETWEEN 6' AND 200'.
   - 3.6. IF CONSTRUCTING CURB, GUTTER OR CURB AND GUTTER NEXT TO, OR ON, CONCRETE PAVEMENT CONSTRUCTED WITH EXPANSION JOINTS, THEN PLACE EXPANSION JOINTS TO MATCH THE EXPANSION JOINT LOCATIONS IN THE PAVEMENTS.
   - 3.7. FOR CURB AND GUTTER, FORM CONTRACTION JOINTS BY SAWING OR FORMING AN INDUCED PLANE OF WEAKNESS AT LEAST 2" DEEP IN THE CURB, GUTTER, OR CURB AND GUTTER DIRECTLY OPPOSITE CONSTRUCTION OR CONTRACTION JOINTS IN ADJOINING CONCRETE PAVEMENT AND AT THE REQUIRED SPACING IN CURB, GUTTER, OR CURB AND GUTTER ADJOINING ASPHALTIC PAVEMENT. SPACE JOINTS BETWEEN 6' AND APPROXIMATELY 20' APART, AS THE ENGINEER DIRECTS.
   - 3.8. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
   - 3.9. CONTRACTOR SHALL INSTALL TRUNCATED DOME WARNING DETECTION FIELD SHALL BE PLACED AT ALL ADA RAMPS AS SPECIFIED ON PLANS AND IN ACCORDANCE WITH STATE AND FEDERAL REQUIREMENTS.
4. PAVEMENT MARKING SPECIFICATIONS:
   - 4.1. ALL PARKING STALL LINES SHALL BE 4" WIDE, HIGH VISIBILITY YELLOW EPOXY PAINT.
   - 4.2. ALL PAVEMENT MARKINGS INCLUDING STOP BARS, CROSSWALKS, DIRECTIONAL ARROWS, PARKING STALL LINES, ADA STALL MARKINGS, NO PARKING ZONES, AND DROP-OFF/PICK-UP ZONES SHALL BE PAINTED WITH EPOXY PAINT PER SPECIFICATIONS.

UTILITY NOTES

1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGERS HOTLINE" PRIOR TO ANY CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
   - 2.1. EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
   - 2.2. OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
   - 2.3. VERIFYING ALL ELEVATIONS, LOCATIONS, AND SIZES OF SANITARY, WATER, AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
   - 2.4. NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
   - 2.5. NOTIFYING THE DESIGN ENGINEER AND JURISDICTIONAL AUTHORITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
   - 2.6. COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC UTILITIES AND STATE DSPS/SPS AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE JURISDICTIONAL AUTHORITIES.
4. SPECIFICATIONS SHALL COMPLY WITH THE JURISDICTIONAL AUTHORITY'S SPECIAL PROVISIONS.
5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
7. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVERNIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
8. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
9. ALL NON-METALLIC UTILITY PIPES (SANITARY SEWER, STORM SEWER, AND WATER PIPING) SHALL BE INSTALLED IN CONJUNCTION WITH TRACER WIRE AS REQUIRED BY SPS 382.30(1)(IM), SPS 382.36(7)(C)10, AND SPS 382.40(8)(K). COLOR OF TRACER WIRE SHALL BE: SANITARY SEWER - GREEN, STORM SEWER - BROWN, WATER - BLUE, NON-POTABLE WATER - PURPLE.
10. DRY UTILITIES (COMMUNICATION, TELEPHONE, GAS, ELECTRIC, ETC.) ARE SHOWN FOR GENERAL ROUTING ONLY. CONTRACTOR SHALL COORDINATE DESIGN AND FINAL LOCATION WITH APPROPRIATE UTILITY COMPANY.
11. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
12. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE JURISDICTIONAL AUTHORITY'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
13. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE INSTALLED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
14. IN ANY LOCATIONS WHERE BUILDING SEWERS (STORM AND SANITARY) ARE INSTALLED WITH LESS THAN THE MINIMUM COVER AS SPECIFIED IN SPS 382.30(1)(C) OR WATER PIPING 382.40(8)(K), CONTRACTOR SHALL INSTALL INSULATION IN ACCORDANCE WITH SPS 382.30(1")(C)2. FOR PROTECTION FROM FROST.
15. STORM SEWER SPECIFICATIONS:
   - 15.1. PIPE:
     - 15.1.1. REINFORCED CONCRETE PIPE (RCP) - SHALL MEET THE REQUIREMENTS OF ASTM CLASS III (MINIMUM) C76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C443.
     - 15.1.2. HIGH DENSITY DUAL-WALL POLYETHYLENE CORRUGATED PIPE (HDPE) - SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATERTIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M294 TYPE "S".
     - 15.1.3. POLYVINYL CHLORIDE (PVC) - SHALL MEET REQUIREMENTS OF ASTM D3034, SDR 35 FOR PIPE SIZES 8"-15" WITH INTEGRAL BELL TYPE FLEXIBLE ELECTROMETRIC JOINTS. MEETING THE REQUIREMENTS OF ASTM D3212, ASTM 1256 SCHEDULE 40 FOR PIPE DIAMETERS 4"-6", SDR 35 SHALL BE USED FOR DEPTHS 3'-15' AND SDR 26 FOR DEPTHS 15'-25' DEPENDENT ON LOCAL JURISDICTION.
   - 15.2. INLETS AND CATCH BASINS:
     - 15.2.1. INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 3.6.3 AND DETAIL DRAWINGS FILE NO. 28 OR 29 OF THE STANDARD SPECIFICATIONS, OR APPROVED EQUAL WITH A 2"x2" MAXIMUM OPENING.
     - 15.2.2. POLYVINYL CHLORIDE (PVC) INLETS SHALL BE MANUFACTURED BY NYLOPLAST ONLY WHEN SPECIFIED ON PLANS, CONFORMING TO ASTM D1781, ASTM D3212, ASTM F477, AND MANUFACTURER'S REQUIREMENTS. REFER TO PLANS FOR LID OR GRATE SPECIFICATION.
     - 15.2.3. FRAME AND GRATE/LIDS:
       - 15.2.3.1. CURB FRAME AND GRATES SHALL BE NEENAH R-3067 WITH TYPE "K" GRATE OR EQUAL, UNLESS AS SPECIFIED IN THE PLANS.
       - 15.2.3.2. SOLID LID FRAME AND GRATES SHALL BE NEENAH R-1550, HEAVY DUTY NON-ROCKING SOLID LID OR EQUAL, UNLESS AS SPECIFIED IN THE PLANS.
       - 15.2.3.3. GRATE FRAME AND GRATES SHALL BE NEENAH R-1550, HEAVY DUTY WITH A R-2578 GRATE OR EQUAL, UNLESS AS SPECIFIED IN THE PLANS.
     - 15.2.4. MANHOLES:
       - 15.2.4.1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 3.5.0 AND DETAIL DRAWINGS FILE NO. 11 AND/OR 12 OF THE STANDARD SPECIFICATIONS.
       - 15.2.3.2. MANHOLE FRAMES AND COVERS SHALL BE NEENAH R-1550, HEAVY DUTY NON-ROCKING SOLID LID OR EQUAL, UNLESS AS SPECIFIED IN THE PLANS.
   - 15.3. BACKFILL AND BEDDING:
     - 15.3.1. STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS EXTENDED A MINIMUM OF 1' BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5' FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
     - 15.3.2. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS.
   - 15.4. FIELD TILE CONNECTIONS:
     - 15.4.1. ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM SEWER.
16. WATER MAIN & WATER LATERAL SPECIFICATIONS:
   - 16.1. PIPE:
     - 16.1.1. DUCTILE IRON PIPE SHALL BE CLASS 52 CONFORMING TO AWWA C151 AND CHAPTER 8.18.0 OF THE STANDARD SPECIFICATIONS.
     - 16.1.2. POLYVINYL CHLORIDE PRESSURE PIPE (PVC) SHALL BE MANUFACTURED IN ACCORDANCE WITH AWWA C900 DR14 (CLASS 305) FOR SIZES UP TO 4" AND AWWA C900 DR18 (CLASS 235) UP TO 30" WITH INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS.
     - 16.1.3. COPPER TYPE K TUBING SHALL CONFORM TO ASTM DESIGNATION B88 FOR WATER SERVICES LESS THAN 2" IN DIAMETER.
     - 16.1.4. HIGH DENSITY POLYETHYLENE (HDPE) SHALL CONFORM TO THE REQUIREMENTS OF AWWA C901, SDR 9 MINIMUM FOR SIZES UP TO 3" AND TO AWWA C906, SDR 17 MINIMUM FOR SIZES GREATER THAN 3".
   - 16.2. VALVES AND VALVE BOXES:
     - 16.2.1. GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C500 AND CHAPTER 8.27.0 OF THE STANDARD SPECIFICATIONS.
     - 16.2.2. CURB STOPS AND CORPORATION VALVES SHALL BE AWWA C800 AND ASTM B62, AND CONFORM TO ANY LOCAL JURISDICTIONAL REQUIREMENTS.
   - 16.3. WATER SERVICES CONNECTIONS
     - 16.3.1. SERVICES 2" IN DIAMETER OR LESS SHALL USE A TAP SERVICE WITH A CORPORATION STOP AND CURB STOP VALVE WITH SERVICE BOX PER JURISDICTIONAL REQUIREMENTS.
     - 16.3.2. SERVICES GREATER THAN 2" IN DIAMETER SHALL USE A TAPPING SLEEVE OR CUT-IN TEE CONNECTION WITH VALVE OF EQUIVALENT PIPE DIAMETER AND VALVE BOX PER JURISDICTIONAL REQUIREMENTS.
   - 16.4. HYDRANTS:
     - 16.4.1. HYDRANTS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTIONAL AUTHORITIES. THE DISTANCE FROM THE GROUND LINE TO THE CENTERLINE OF THE LOWEST NOZZLE AND THE LOWEST CONNECTION OF THE FIRE DEPARTMENT SHALL BE NO LESS THAN 18" AND NO GREATER THAN 29" (SEE DETAIL).
   - 16.5. JOINT RESTRAINT:
     - 16.5.1. WHERE SPECIFIED, DUCTILE IRON PIPE SHALL INCLUDE MECHANICAL JOINTS CONFORMING TO CHAPTER 4.4.2(B) OF THE STANDARD SPECIFICATIONS. POLYETHYLENE WRAP SHALL BE USED AROUND ALL MECHANICAL CONNECTIONS.
   - 16.6. BEDDING AND COVER MATERIAL:
     - 17.6.1. PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.13.2 OF THE STANDARD SPECIFICATIONS.
     - 17.6.2. BURY DEPTH SHALL CONFORM TO LOCAL JURISDICTION REQUIREMENTS OR DSPS REQUIREMENTS AT A MINIMUM, WHERE THERE IS NO LOCAL JURISDICTION REQUIREMENTS.
   - 17.7. BACKFILL:
     - 17.7.1. BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTERS 2.6.0 AND 4.17.0 OF THE STANDARD SPECIFICATIONS. GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5' BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5' FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
     - 17.7.2. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS.
17. SEPARATION DISTANCES
   - WHERE PRIVATE WATER MAIN OR WATER SERVICES CROSSES A SANITARY SEWER OR SANITARY LATERAL, THE WATER PIPE WITHIN 5 FEET OF THE CROSSING SHALL BE INSTALLED WITH THE FOLLOWING:
     - •• WATER PIPING SHALL BE INSTALLED AT LEAST 18 INCHES ABOVE THE TOP OF SANITARY PIPING
     - •• WATER PIPING SHALL BE INSTALLED AT LEAST 18 INCHES BELOW THE BOTTOM OF SANITARY PIPING.
18. SANITARY SEWER SPECIFICATIONS:
   - 19.1. PIPE:
     - 19.1.1. POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D3212. ASTM 1785 SCHEDULE 40 FOR PIPE DIAMETERS 4"-8", SDR 35 SHALL BE USED FOR DEPTHS **3'-15'** AND SDR 26 FOR DEPTHS **16'-25'** DEPENDENT ON LOCAL JURISDICTION.
     - 19.1.2. CONNECTION TO DISSIMILAR PIPE MATERIALS SHALL CONFORM TO CHAPTER 3.4.2 OF THE STANDARD SPECIFICATIONS. FERNCO COUPLER MAY BE USED WITH APPROVAL OF ENGINEER.
   - 19.2. MANHOLES:
     - 19.2.1. MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 3.5.0 AND DETAIL DRAWINGS FILE NOS. 7, 13 AND 15 OF THE STANDARD SPECIFICATIONS AND ALL SPECIAL PROVISIONS OF THE JURISDICTIONAL AUTHORITIES.
     - 19.2.2. MANHOLES SHALL HAVE INTERNAL CHIMNEY SEALS INSTALLED IN ALL SANITARY MANHOLES IN ACCORDANCE WITH CHAPTER 3.5.4(F) AND DETAIL DRAWING FILE NO. 12A OF THE STANDARD SPECIFICATIONS.
     - 19.2.3. MANHOLES SHALL HAVE ALL EXTERNAL JOINTS WRAPPED WITH 12 MIL WARP OR EQUAL RUBBERIZED JOINT WRAP PER ASTM D923.
     - 19.2.4. MANHOLE FRAMES AND COVERS SHALL BE NEENAH R-1550 HEAVY DUTY WITH NON-ROCKING SOLID LIDS OR EQUAL, UNLESS SPECIFIED IN THE PLANS.
   - 19.3. BEDDING AND COVER MATERIAL:
     - 19.3.1. MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE STANDARD SPECIFICATIONS WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2.(A).
     - 19.3.2. MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO ENSURE ADEQUATE COMPACTION OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."
   - 19.4. BACKFILL:
     - 19.4.1. MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE STANDARD SPECIFICATIONS. GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5' BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5' FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
     - 19.4.2. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE STANDARD SPECIFICATIONS.

SEEDING AND RESTORATION NOTES

1. CONTRACTOR SHALL PROVIDE NOTICE TO THE JURISDICTIONAL AUTHORITIES IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANC

HUGHES PLACE

POLICE DEPARTMENT

MCDONALD'S

SOUTH PARK STREET

BADGER ROAD

EXTENTS OF MAYFLOWER LIFT STATION DEMO (REFER TO PLANS)

EXTENTS OF MAYFLOWER LIFT STATION DEMO (REFER TO PLANS)

CONTRACTOR TO VERIFY IF EXISTING ELECTRIC AND FIBER LINE HAVE BEEN REMOVED OR ABANDONED AND IF THEY CAN BE REMOVED OR ABANDONED

REMOVE EXISTING FENCE

REMOVE EXISTING TREE, TYP.

REMOVE EXISTING LIGHT POLE BASE AND LIGHT, TYP

!CAUTION!! EXISTING STORM SEWER TO REMAIN UNTIL AFTER REMOVAL OF EXISTING LIFT STATION AND INSTALLATION OF NEW ROUTE

REMOVE BUS STOP SHELTERS

REMOVE EXISTING FENCE

REMOVE CONCRETE PAVEMENT AND SIDEWALK

REMOVE CONCRETE SIDEWALK

REMOVE EXISTING TREE, TYP.

REMOVE STORM SEWER, INLETS, AND MANHOLE

!CAUTION!! EXISTING ELECTRIC VAULT AND LINE CROSSING STORM SEWER

north

SCALE IN FEET

20' 0 20'

File: \\JSDFiles\Projects\2026\24-141033\DWG\Civil Sheets\241410330WG-Civil Sheets\241410333 Con Docs.dwg Layout: C200 - Demolition Plan User: cade.hinrichs Plotted: May 15, 2026 - 11:04am XrefS:

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PRELIMINARY
NOT FOR CONSTRUCTION

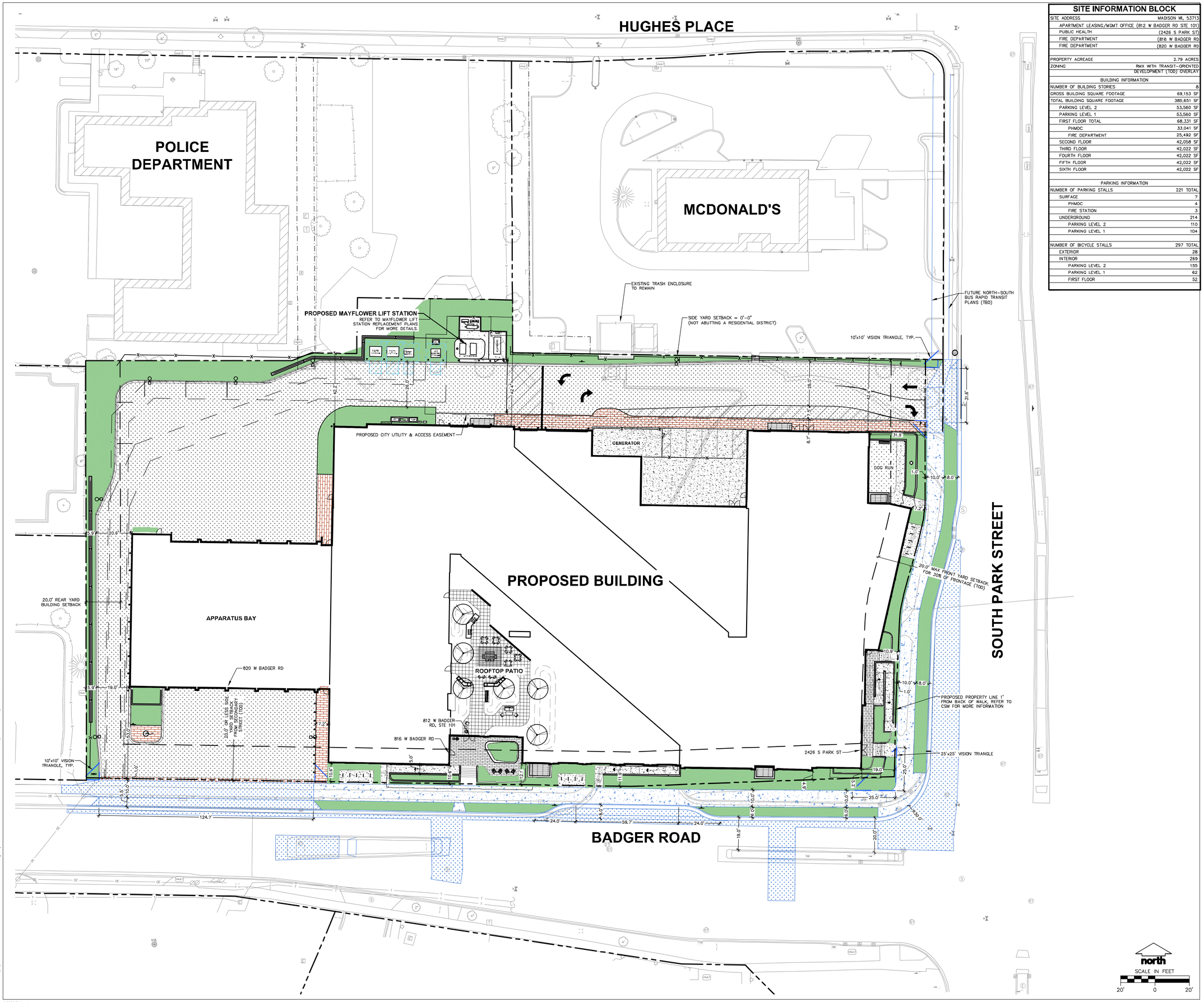
Park Badger Redevelopment
City of Madison CDA

812 W BADGER ROAD
Madison, WI 53713

DATE	ISSUANCE/REVISIONS	
03/16/2026	LAND USE APPLICATION	1
03/27/2026	TIF ISSUANCE	2
06/03/2026	UDC INITIAL/FINAL	3

DEMOLITION PLAN

C200



SITE INFORMATION BLOCK	
SITE ADDRESS	MADISON WI, 53713
APARTMENT LEASING/MGMT OFFICE (812 W BADGER RD STE 101)	
PUBLIC HEALTH	(2426 S PARK ST)
FIRE DEPARTMENT	(816 W BADGER RD)
FIRE DEPARTMENT	(820 W BADGER RD)
PROPERTY ACREAGE	2.79 ACRES
ZONING	RMX WITH TRANSIT-ORIENTED DEVELOPMENT (TOD) OVERLAY
BUILDING INFORMATION	
NUMBER OF BUILDING STORIES	8
GROSS BUILDING SQUARE FOOTAGE	69,153 SF
TOTAL BUILDING SQUARE FOOTAGE	385,651 SF
PARKING LEVEL 2	53,560 SF
PARKING LEVEL 1	53,560 SF
FIRST FLOOR TOTAL	68,331 SF
PHMDC	33,041 SF
FIRE DEPARTMENT	25,492 SF
SECOND FLOOR	42,058 SF
THIRD FLOOR	42,022 SF
FOURTH FLOOR	42,022 SF
FIFTH FLOOR	42,022 SF
SIXTH FLOOR	42,022 SF
PARKING INFORMATION	
NUMBER OF PARKING STALLS	221 TOTAL
SURFACE	7
PHMDC	4
FIRE STATION	3
UNDERGROUND	214
PARKING LEVEL 2	110
PARKING LEVEL 1	104
NUMBER OF BICYCLE STALLS	297 TOTAL
EXTERIOR	28
INTERIOR	269
PARKING LEVEL 2	155
PARKING LEVEL 1	62
FIRST FLOOR	52

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PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

812 W BADGER ROAD
Madison, WI 53713

DATE	ISSUANCE/REVISIONS	
03/16/2026	LAND USE APPLICATION	1
03/27/2026	TID ISSUANCE	2
06/03/2026	UDC INITIAL/FINAL	3

DIMENSIONED SITE PLAN

C300

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HUGHES PLACE

POLICE DEPARTMENT

MCDONALD'S

EXISTING TRASH ENCLOSURE TO REMAIN

FUTURE NORTH-SOUTH BUS RAPID TRANSIT PLANS (TBD)

PROPOSED MAYFLOWER LIFT STATION

10'x10' VISION TRIANGLE, TYP.

PROPOSED MG&E UTILITY & ACCESS EASEMENT

PROPOSED CITY UTILITY & ACCESS EASEMENT

GENERATOR

DOG RUN

PROPOSED BUILDING

APPARATUS BAY

820 W BADGER RD

ROOFTOP PATIO

812 W BADGER RD, STE 101

816 W BADGER RD

2426 S PARK ST

PROPOSED PROPERTY LINE 1' FROM BACK OF WALK, REFER TO CSM FOR MORE INFORMATION

25'x25' VISION TRIANGLE

SOUTH PARK STREET

BADGER ROAD

north

SCALE IN FEET

20' 0 20'

KEY NOTES

- A1 18" STANDARD CURB AND GUTTER
- A2 18" REJECT CURB AND GUTTER
- A3 3' CURB HEAD TAPER
- B1 HEAVY DUTY CONCRETE
- B2 HEAVY DUTY CONCRETE, BRICK RED COLOR, BRICK STAMPED
- B3 STANDARD CONCRETE, BRICK RED COLOR, BRICK STAMPED
- B4 HEAVY DUTY CONCRETE, 2'X2' JOINTS, RED BRICK COLOR
- B5 STANDARD CONCRETE
- B6 COMMERCIAL ENTRANCE
- B7 ACCESSIBLE RAMP WITH RAIL
- B8 STEPS WITH RAIL
- C1 PAVEMENT MARKING: 4" WIDE, YELLOW
- C2 PAVEMENT MARKING; DIRECTIONAL ARROW, YELLOW
- C3 PAVEMENT MARKING, DIAGONAL HATCH - SWSL/4" AT 45° @ 5'-0" O.C. YELLOW
- C4 PAVEMENT MARKING: 12" WIDE, YELLOW
- D1 TYPE R1-1 STOP SIGN
- D2 TYPE R5-1 DO NOT ENTER SIGN
- D3 NO PARKING FIRE LANE SIGN
- D4 DO NOT ENTER, FIRE DEPARTMENT ACCESS ONLY SIGN
- D5 RIGHT TURN ONLY & ONE WAY
- D6 RIGHT TURN ONLY
- E1 BIKE RACK
- E2 BARRIER GATE (REFER TO ARCHITECTURAL)
- E3 CAST IN PLACE RETAINING WALL (REFER TO STRUCTURAL/ARCHITECTURAL)
- E4 6' TALL HORIZONTAL SLAT ALUMINUM SCREEN FENCE, CATALST RIVERSIDE COASTAL CEDAR EQU. INSTALLED PER MANUFACTURE RECOMMENDATIONS
- E5 FLAG POLE (REFER TO ARCHITECTURAL)
- E6 LIGHT POLE (REFER TO ELECTRICAL)
- E7 CONCRETE BOLLARD, TYP.
- E8 LED LIGHT BOLLARD (REFER TO ELECTRICAL)

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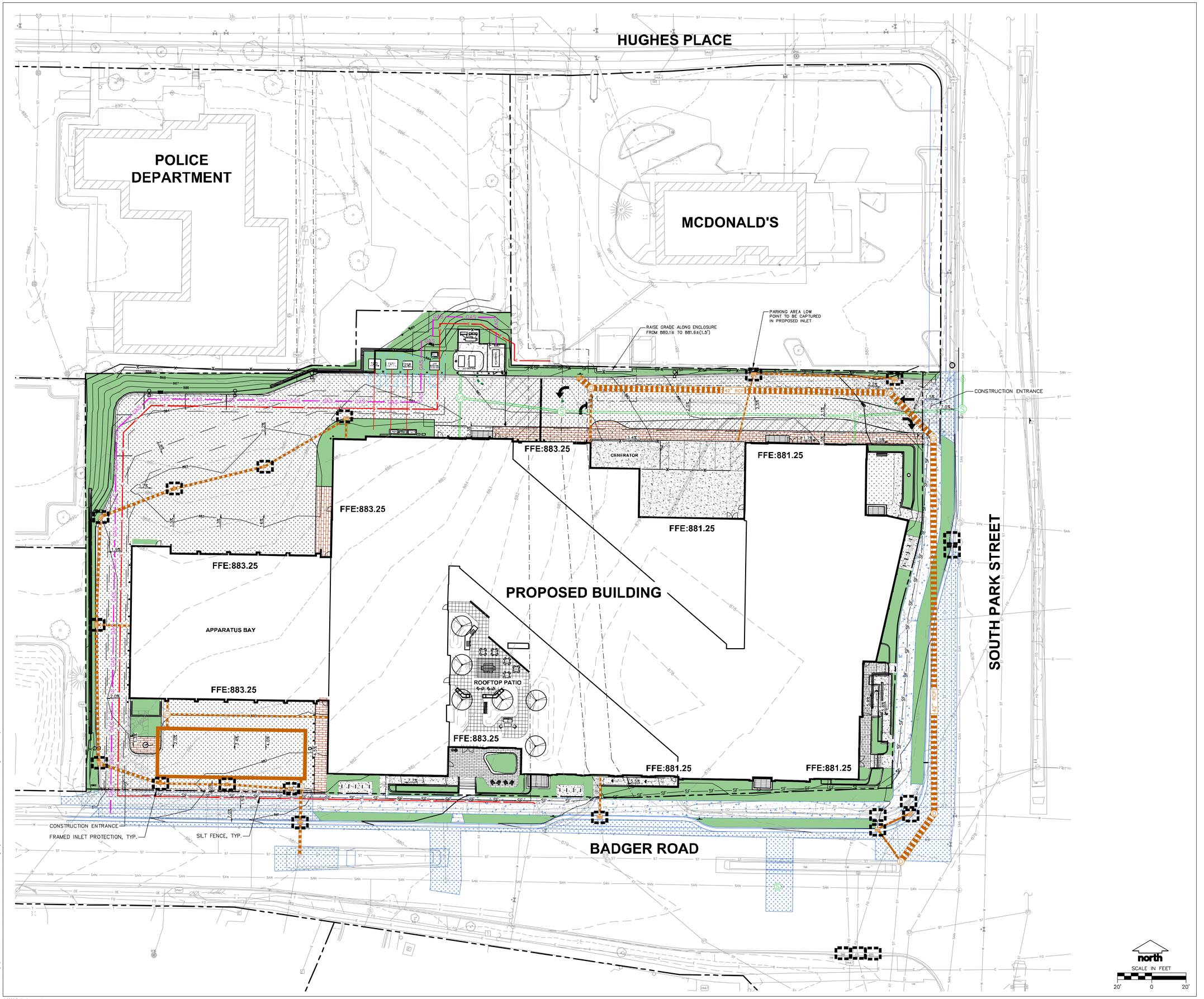
03/16/2026	LAND USE APPLICATION	1
03/27/2026	DD ISSUANCE	2
06/03/2026	UDC INITIAL/FINAL	3

ANNOTATED SITE PLAN

C301



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GRADING AND EROSION CONTROL PLAN

C400

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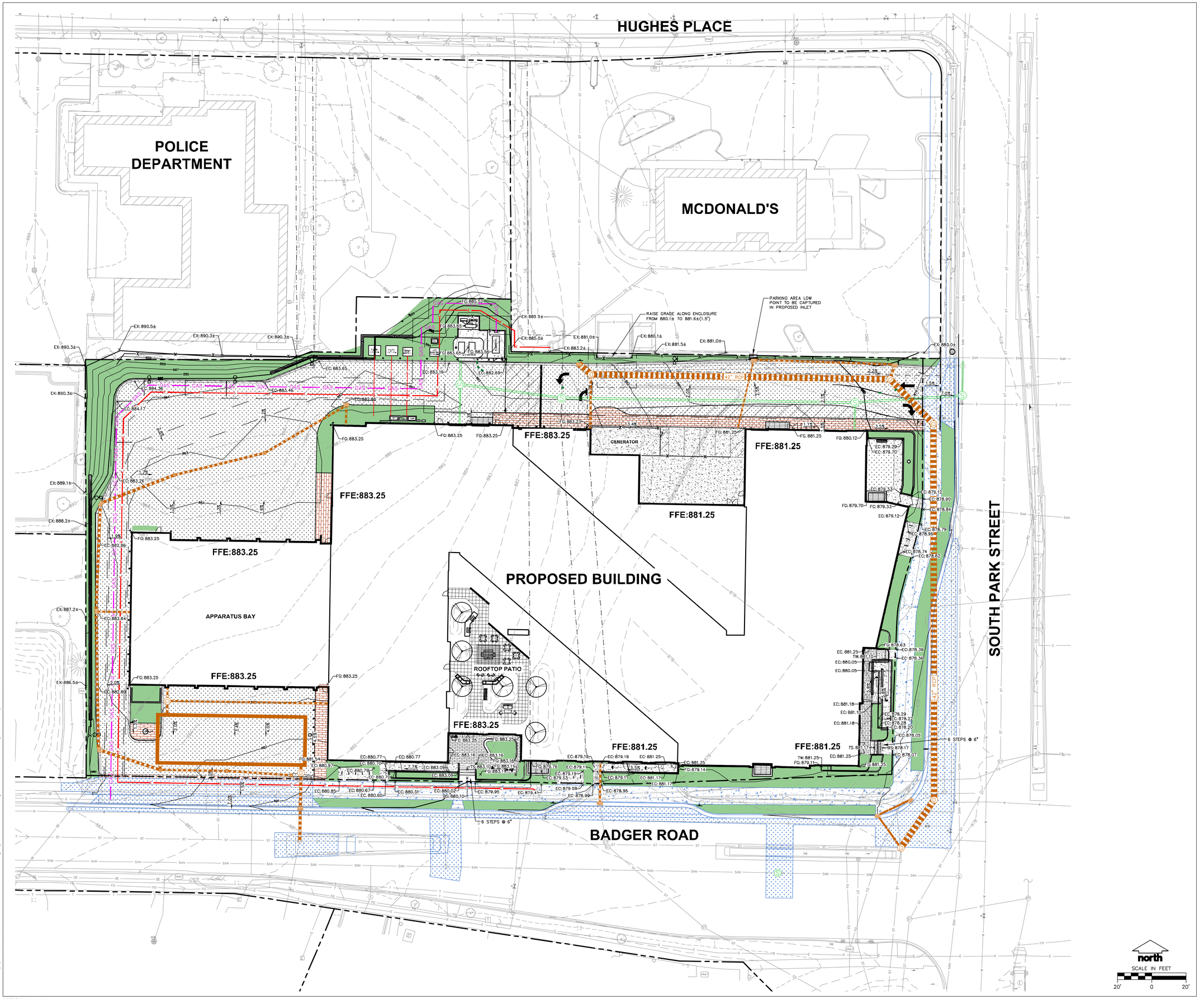

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City of Madison CDA

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DATE	ISSUANCE/REVISIONS	▲
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03/27/2026	DD ISSUANCE	2
06/03/2026	UDC INITIAL/FINAL	3

DETAILED GRADING PLAN

C401

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*REFER TO NOTES BELOW FOR ADDITIONAL STRUCTURE DETAILS

PROPOSED STORM SEWER STRUCTURE TABLE					
LABEL	RIM EL. (FT)	INVERT EL. (FT)	DEPTH (FT)	STRUCTURE DESC.	FRAME & GRATE
STO A-1	880.72	S INV: 877.20 (18") N INV: 877.30 (18")	3.5	2 x 3 INLET	R-3067 TYPE R
STO A-2	881.04	S INV: 877.50 (18") N INV: 877.50 (18")	4.0	48 IN MH (FLAT)	R-1550 SOLID LID
STO B-1	882.37	N INV: 877.58 (18") E INV: 877.68 (12") W INV: 877.68 (18")	4.8	48 IN MH (FLAT)	R-1550 TYPE D
STO B-1.1	881.67	W INV: 877.69 (12") E INV: 877.79 (12")	4.0	48 IN MH (FLAT)	R-1550 TYPE D
STO B-1,2	880.93	W INV: 877.98 (12")	3.0	48 IN MH (FLAT)	R-1550 TYPE D
STO B-2	882.65	E INV: 877.87 (18") N INV: 877.92 (18")	4.8	48 IN MH (FLAT)	R-3067 TYPE R
STO B-3	882.61	S INV: 878.32 (18") N INV: 878.37 (18") E INV: 879.40 (12")	4.3	2 x 3 INLET	R-3067 TYPE R
STO B-4	882.95	S INV: 878.61 (18") E INV: 878.71 (18")	4.3	48 IN MH (FLAT)	R-3067 TYPE R
STO B-5	882.68	W INV: 878.90 (18") E INV: 879.15 (15")	3.8	48 IN MH (FLAT)	R-1550 TYPE D
STO B-6	882.58	W INV: 879.37 (15") NE INV: 879.62 (12")	3.2	48 IN MH (FLAT)	R-1550 TYPE D
STO B-7	882.91	SW INV: 879.84 (12") S INV: 879.94 (12")	3.1	2 x 3 INLET	R-3067 TYPE R
STO C-1	883.05	S INV: 878.32 (15") E INV: 878.57 (12") N INV: 879.85 (12")	4.7	48 IN MH (FLAT)	R-1550 SOLID LID
#2 STO E-1	879.93	S INV: 874.87 (15") W INV: 875.12 (12")	8.1	48 IN MH (FLAT)	R-3067 TYPE R
#3 STO E-2	880.04	E INV: 875.94 (12") S INV: 876.91 (8")	7.1	2 x 3 INLET	R-3067 TYPE R
STO F-1	878.32	S INV: 871.99 (42") N INV: 875.00 (12")	6.3	72 IN MH (FLAT)	R-3067 TYPE R

PROPOSED STORM SEWER PIPE TABLE								
LABEL	FROM	TO	LENGTH	INVERT EL. (FT)	DISCHARGE EL. (FT)	SLOPE	SIZE & MATERIAL
A-1	STO A-1	PUB STM	20'	877.20	877.05	0.77%	18 IN RCP
A-2	STO A-2	STO A-1	20'	877.50	877.30	0.98%	18 IN RCP
A-3	ADS OUTLET	STO A-2	5'	877.50	877.50	0.00%	18 IN RCP
B-1	STO B-1	UND STM	4'	877.58	877.50	1.94%	18 IN HDPE
B-1.1	STO B-1.1	STO B-1	39'	877.69	877.68	0.03%	12 IN HDPE
B-1,2	STO B-1,2	STO B-1,1	38'	877.98	877.79	0.50%	12 IN HDPE
B-2	STO B-2	STO B-1	38'	877.87	877.68	0.50%	18 IN HDPE
B-3	STO B-3	STO B-2	61'	878.32	877.92	0.50%	18 IN HDPE
B-3.1	BUILDING.	STO B-3	20'	880.00	879.40	3.04%	12 IN HDPE
B-4	STO B-4	STO B-3	63'	878.61	878.37	0.37%	18 IN HDPE
B-5	STO B-5	STO B-4	46'	878.90	878.71	0.42%	18 IN HDPE
B-6	STO B-6	STO B-5	54'	879.37	879.15	0.40%	15 IN HDPE
B-7	STO B-7	STO B-6	55'	879.84	879.62	0.40%	12 IN HDPE
B-8	BUILDING	STO B-7	11'	880.00	879.94	0.50%	12 IN HDPE
C-1	STO C-1	UND STM	8'	878.32	878.23	1.00%	15 IN HDPE
C-2	BUILDING	STO C-1	93'	879.50	878.57	1.00%	12 IN HDPE
C-3	BUILDING	STO C-1	7'	880.00	879.85	2.00%	12 IN HDPE
D-1	BUILDING	S-5	32'	877.65	876.86	2.50%	12 IN HDPE
E-1	STO E-1	S-4	9'	874.87	874.78	1.00%	15 IN HDPE
E-2	STO E-2	STO E-1	82'	875.94	875.12	1.00%	12 IN HDPE
E-3	BUILDING	STO E-2	41'	878.00	876.91	2.64%	8 IN HDPE
F-1	BUILDING	STO F-1	23'	875.50	875.00	2.17%	12 IN RCP

NOTES:
- ALL OPEN GRATE STRUCTURES TO RECEIVE FLEXSTORM CATCH IT INLET FILTERS DURING CONSTRUCTION.
- ALL INLETS TO RECEIVE INSTALL FLEXSTORM PURE INLET BASKET WITH OIL AND GREASE POUCH AFTER CONSTRUCTION
- ALL INLETS TO RECEIVE CONCRETE INLET COLLARS.
- INLET RIMS ARE TO FLOWLINE

#1 – INSTALL WEIR PLATE WITH 3" ORFICE AT 897.5 & TOP OF WEIR AT 878.75
#2 – 6–MODULE UPFLO FILTER WITH 3' SUMP BY HYDRO INTERNATIONAL
#3 – 3' SUMP

POLICE DEPARTMENT

8" DUCTILE IRON

12" RCP

GAS AND ELECTRIC SHOWN FOR REFERENCE ONLY, REFER TO MG&E PLANS FOR ROUTING

EXISTING TRASH ENCLOSURE TO REMAIN PROPOSED STORM MAIN 10' FROM TRASH ENCLOSURE.

EXISTING SANITARY FORCE MAIN AND GRAVITY SYSTEM TO REMAIN ACTIVE UNTIL NEW LIFT STATION AND FORCE MAIN ARE OPERATIONAL

SANITARY FORCE MAIN. REFER TO MAYFLOWER LIFT STATION REPLACEMENT PLANS

SANITARY SEWER. REFER TO MAYFLOWER LIFT STATION REPLACEMENT PLANS

THREE (3) SANITARY SEWER MANHOLE CASTINGS TO BE RAISED TO FINAL GRADE AND INTERNAL CHIMNEY SEALS TO BE INSTALLED PER CITY OF MADISON STANDARD DETAIL 5.7.17

8" SANITARY FORCE MAIN

8" SANITARY SERVICE INV: 864.8±

8" SANITARY SERVICE INV: 865.8±

GENERATOR

EXISTING STORM LINE ASSUMED TO BE INACTIVE. CONTRACTOR TO VERIFY AND REMOVE IF CONFLICTING WITH UTILITY CROSSINGS

8" WATER SERVICE

GREEN ROOF 5,300 SF OF LIVEROOF BLUE ROOF RETAIN DEEP (6" SOIL DEPTH - 10" HEIGHT - 62.5 LBS./FT²)

PROPOSED BUILDING

GREEN ROOF 8,530 SF OF LIVEROOF BLUE ROOF RETAIN DEEP (6" SOIL DEPTH - 10" HEIGHT - 62.5 LBS./FT²)

APPARATUS BAY

ROOFTOP PATIO

GREEN ROOF 14,000 SF OF LIVEROOF BLUE ROOF RETAIN STANDARD (4.25" SOIL DEPTH - 8.5" HEIGHT - 41.5 LBS./FT²)

GREEN ROOF 5,530 SF OF 12" AVERAGE SOIL DEPTH

STORMTRAP (CONCRETE SEDIMENT/DETENTION CHAMBER WITH 8" CONCRETE BOTTOM) (86'x28'x5.0')(874.5-879.5)

61' OF 8" PVC SANITARY SERVICE AT 1.04% INV: 871.38

61' OF 8" PVC SANITARY SERVICE AT 1.04% INV: 869.11

REMOVE AND REPLACE EXISTING STRUCTURE WITH A NEW, FIELD POURED STRUCTURE

48" SANITARY DOG HOUSE MANHOLE ON EXISTING MAIN

SOUTH PARK STREET

BADGER ROAD

36" RCP

42" RCP

48" RCP

8" VCP

north

SCALE IN FEET

20' 0 20'

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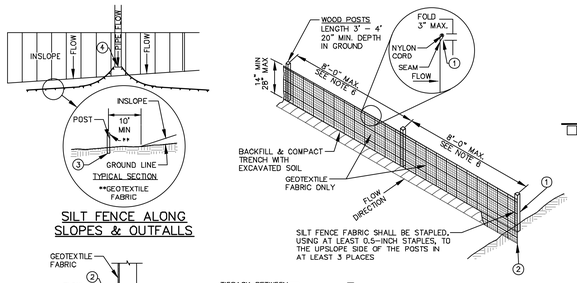
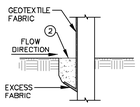
UTILITY PLAN

C500

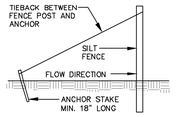


SILT FENCE ALONG SLOPES & OUTFALLS

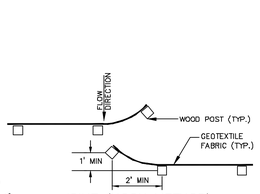


NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

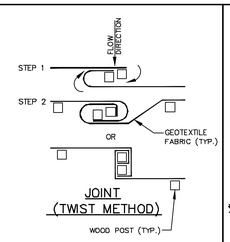
TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN ADDITIONAL SUPPORT REQUIRED)



JOINT (HOOK METHOD)



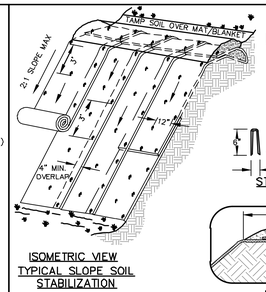
JOINT (TWIST METHOD)

GENERAL NOTES:

1. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
2. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
4. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE.
5. SILT FENCE CONSTRUCTION AND GEOTEXTILE FABRIC SHALL CONFORM TO WDNR TECHNICAL STANDARD 1056.
6. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8-FEET FOR WOVEN & 3-FEET FOR NON-WOVEN)

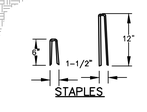
SILT FENCE
N.T.S.

REV. 7-01-2019

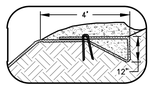


ISOMETRIC VIEW TYPICAL SLOPE SOIL STABILIZATION

NOTE:
MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.



STAPLES



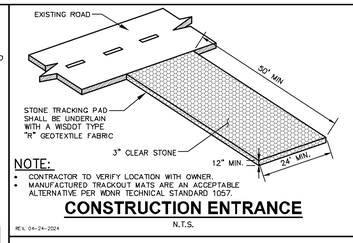
BERM

GENERAL NOTES:

1. EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON-CHANNEL EROSION MAT".
2. ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

EROSION MATTING
N.T.S.

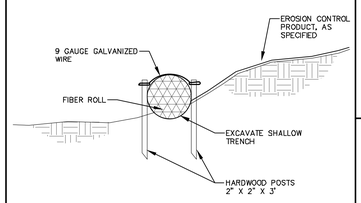
REV. 11-19-2018



NOTE:
- CONTRACTOR TO VERIFY LOCATION WITH OWNER.
- MANUFACTURED TRACKOUT MATS ARE AN ACCEPTABLE ALTERNATIVE PER WDNR TECHNICAL STANDARD 1057.

CONSTRUCTION ENTRANCE
N.T.S.

REV. 04-24-2024

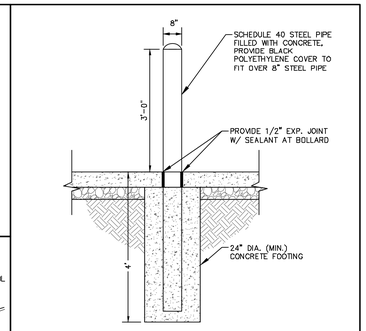


GENERAL NOTES:

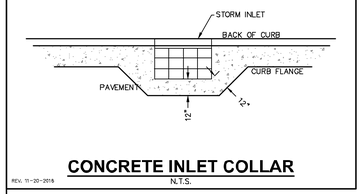
1. EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS.
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2" X 2" POSTS PLACED ON BOTH SIDES OF THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
3. NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 1/8" DIAMETER BRAIDED NYLON ROPE.
4. PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP. PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED.

FIBER SILT SOCK
N.T.S.

REV. 12-7-2018



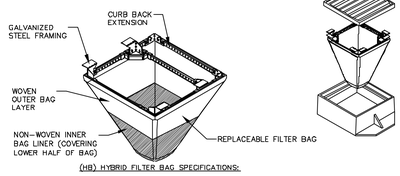
CONCRETE BOLLARD
N.T.S.

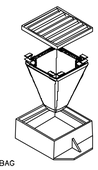


CONCRETE INLET COLLAR
N.T.S.

REV. 11-20-2018

FLEXSTORM INLET FILTERS TO MEET DANE COUNTY EROSION CONTROL STANDARDS





(HB) HYBRID FILTER BAG SPECIFICATIONS:

INSTALLATION INSTRUCTIONS:
1. REMOVE GRATE FROM THE DRAINAGE STRUCTURE
2. CLEAN STONE AND DIRT FROM LEDGE (LIP) OF DRAINAGE STRUCTURE
3. DROP THE INLET FILTER THROUGH THE CLEAR OPENING SUCH THAT THE HANGERS REST FIRMLY ON THE LIP OF THE STRUCTURE
4. REPLACE THE GRATE AND CONFIRM IT IS NOT ELEVATED MORE THAN 1/8"

MAINTENANCE GUIDELINES:
1. EMPTY THE SEDIMENT BAG IF MORE THAN HALF FILLED WITH SEDIMENT AND DEBRIS
2. REMOVE THE GRATE, ENGAGE THE LIFTING POINTS, AND LIFT FILTER FROM THE DRAINAGE STRUCTURE.
3. DISPOSE OF SEDIMENT AND DEBRIS BY THE ENGINEERING OR MAINTENANCE CONTRACT 4. ALTERNATIVELY, AN INDUSTRIAL VACUUM CAN BE USED TO COLLECT SEDIMENT FROM THE FILTER BAG

CATCH-IT INLET FILTER (Temporary Inlet Protection)

Neenah Casting	Inlet Type	Grate Size	Opening Size	Bag Cap (ft³)	Flow Ratings (CFS) HB (Hybrid Bag)	Bypass	ADS P/N
3067	Curb Box	35.25 x 17.75	33.0 x 15.0	4.4	2.0	5.8	62LCBEXTHB
3246A	Curb Box	35.75 x 23.875	33.5 x 21.0	4.2	1.1	3.3	62LCB3624HB
3030	Square/Rect (SQ)	23 x 16	20.5 x 13.5	1.8	0.7	2.2	62MCB2316HB
3067-C	Square/Rect (SQ)	35.25 x 17.75	33 x 15	3.2	1.0	5.2	62LSQ3618HB
R-2501	Round (RD)	~26	~24	2.3	0.8	5.2	62MRD26HB
R-1772-2580	Round (RD)	22.25-23.5	20.5-21	1.5	0.6	4.8	62MRD22HB

INTENDED FOR ALL OPEN GRATES DURING CONSTRUCTION

Woven and Non-Woven Concrete Filter Bag Properties (Minimum Average Roll Values)

PROPERTY	TEST METHOD	WOVEN (OUTER)	NON-WOVEN (INNER)
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
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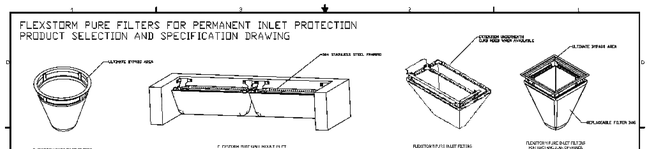
[illegible]	[illegible]	[illegible]	[illegible]

FRAMED INLET PROTECTION
N.T.S.

REV. 7-01-2019

FLEXSTORM PURE FILTERS FOR PERMANENT INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING



For Round Opening with Gasket		Minimum Square Flow Rate (PFR)* Based on Bradford Frame Size With:
Diameter (inches)	Frame Insert Part No.	Minimum 4" Frame Flange
Small: 19.5" - 20.5"	62RSMF	1.5
Medium: 20.5" - 22.5"	62RMFF	3.5
Large: 24.5" - 26.5"	62RLFF	3.5

For Open Throat Curb Inlets - Mounted to Most Concrete Curb Openings	
Curb Opening Size	Replacement Frame P/N
Up to 6 curb opening (17.7 liter)	62FCFMF6
Between 6 and 9 curb openings (17 liter)	62FCFMF9
Between 10 & 12 Curb openings (19 liter)	62FCFMF12

For Rectangular/Square Openings with Gasket		Minimum Square Flow Rate (PFR)* Based on Bradford Frame Size with:
Size (Use Max Opening Size that will fit in Curb Inlet)	Replacement Frame P/N	Continuous Rim
Small: 18" x 18" up to 20.5" x 20.5" (457 mm x 457 mm to 521 mm x 521 mm)	62FSQF	62FSQCR
Medium: 18"x 24" up to 20.5" x 26.5" (457 mm x 610 mm to 521 mm x 673 mm)	62FMF	62FMFCR
Large: 24" x 24" up to 26.5" x 26.5" (610 mm x 610 mm to 673 mm x 673 mm)	62FLF	62FLFCR

CRAFT YOUR ARE FI FILTERPM PART NUMBERS W COMPANYING FRAMP PIN AND BAG P/Ns
1. FROM 19-1 YO 30 =>> 45 YO 60 (MINIMUM CURB INSIDEWALL HEIGHT 6 INCHES)
2. SELECT YOUR BAG PART NUMBER BASED ON APPROPRIATE NEEDS

HEADS-FLOW FILTER BAGS	22" dia (HB)	11.5" dia (HB)	Clean Water Flow Rate (GPM/SqFt)	MIN A.O.S. (microns)
Fits Standard Wovens Bag	FB	FB-1	200	40
Fits Wovens w/ Mini Cats	FXP	FXP-1	200	40
9300 Woven w/ Oil Sheen	FWO	FWO-1	300	40
HC Post Construction Bag	PC	PC-1	160	160
POA PC Bag w/ Mini Cat	PCP	PCP-1	120	300
UL Laser and Leaf Bag	UL	UL-1	High	3.5
UL BOOT Non-Woven Bag	L	IL-1	165	70

1. CREATE YOUR FLEXSTORM PART NUMBER
Frame P/N from Step 1 + Filter Bag P/N from Step 2 =

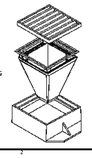
SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL BAG / FRAME SIZE

Nominal Bag/Frame Size	Solids Manager (Quart)	Filtrexx Flow Rate at 50% Max (CFS) TX (Weaver)	PC (Poly Cotton)	IL (Non-Wovens)	* PCO1 Retention (O1)	**PC+ O1 Retention (Dg)	***IX+ O1 Retention (IC)
Small	1.5	1.2	n/a	n/a	.74	.104	.69
Medium	2.1	1.7	1.2	1.1	1.15	.206	.89
Large	3.8	2.7	1.8	1.9	1.73	.262	.89
XL	4.2	3.0	2.4	2.0	1.79	.290	.179
Filtration Efficiency		62%	NA	Same as PC + 2 Dg Layers			
TSS Test (up to 500 psi)		NA	99%	Same as PC + 2 Dg Layers + Addition of #1 STD Bag L w/ size of 155 psi SW 10000.			
TPH Outperformance (up to 500 psi)		NA	90%	Same as PC + 2 Dg Layers + Addition of #1 STD Bag L w/ size of 155 psi SW 10000.			

* PC Filter bag at 50% max water pillow capacity
** PC Filter bag at 50% capacity and MnO4 x diameter at 300% capacity

NOTES:
1. ALL FRAMING IS CONSTRUCTED OF 304 STAINLESS STEEL FOR 25 YEAR SERVICE LIFE RATING
2. TOTAL BYPASS CAPACITY: BYPASS CAPACITY WILL VARY WITH EACH SIZE DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE.
3. UPON ORDERING CONFIRMATION OF THE DOT CALLOUT, PRECAST OR CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL PRINTS MUST BE PROVIDED TO CONFIGURE AND ASSEMBLE YOUR CUSTOMIZED FLEXSTORM INLET FILTER. PART NUMBER ALONE IS NOT SUFFICIENT.
4. FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER INTO LOAD BEARING LIP OF EXISTING OR CONCRETE STRUCTURE
3. REPLACE GRATE



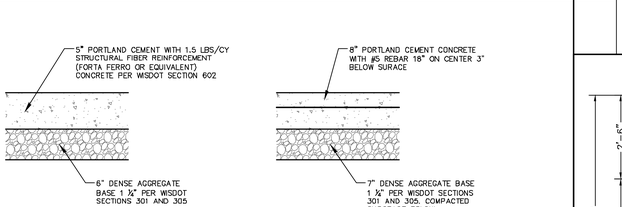
INTENDED FOR ALL OPEN GRATES EXCEPTING PARKING LOT STORMWATER AFTER CONSTRUCTION

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC A DIVISION OF ADS, INC.
WWW.INLETFILTERS.COM
(866) 287-9655 PH
(630) 955-8477 FX
INFO@INLETFILTERS.COM

TITLE:		SHEET NO:	REV:
C		FLEXSTORM_PURE	A
SCALE:		DRAWN BY:	
		EAU	

C			29 Flexstorm HU Specification
REV			

FLEXSTORM CATCH IT

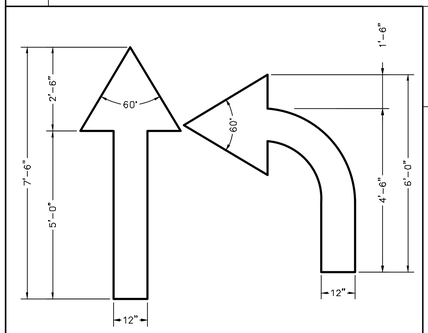


CONCRETE SECTION — HEAVY DUTY CONCRETE SECTION

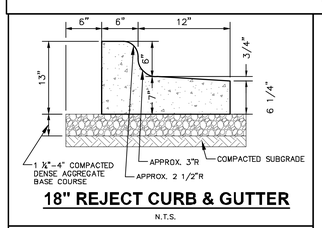
GENERAL NOTES:

1. REFER TO PAVEMENT RECOMMENDATIONS IN THE GEOTECHNICAL INVESTIGATION REPORT, PREPARED BY CGC, INC PROJECT NO. C25051-3 DATED JUNE 12, 2025. IF THERE ARE ANY DISCREPANCIES BETWEEN THIS DETAIL AND THE PAVEMENT RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL INVESTIGATION REPORT, THE GEOTECHNICAL REPORT SHALL GOVERN
2. WSDOT STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, INCLUDING SUPPLEMENTAL SPECIFICATIONS, COMPACTION REQUIREMENTS:
   - BASE COURSE: REFER TO SECTION 301.3.4.2, STANDARD COMPACTION.

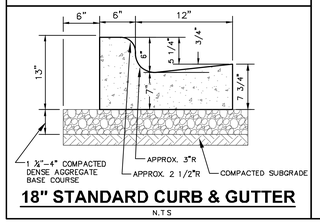
PAVEMENT SECTIONS
N.T.S.



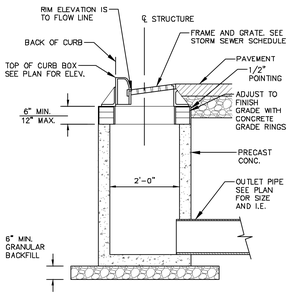
TYPICAL PAVEMENT MARKINGS
N.T.S.



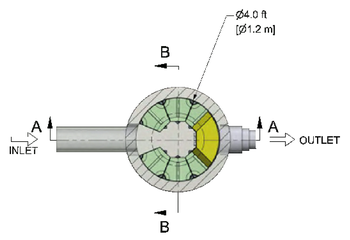
18" REJECT CURB & GUTTER
N.T.S.



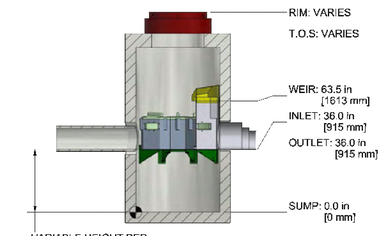
18" STANDARD CURB & GUTTER
N.T.S



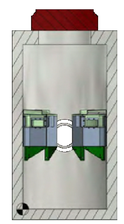
STORM INLET
N.T.S.



SECTION B-B



SECTION A-A



PROJECTION

COMMENTS:
1. STRUCTURE WALL AND SLAB THICKNESSES ARE NOT TO SCALE
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING THE STRUCTURE
3. NOT FOR CONSTURCION CONTACT HYDRO FOR SITE SPECIFIC DRAWING
4. NOT ALL SIZES AVAILABLE IN ALL AREAS
5. SUMP DEPTH AVAILABLE IN 24" (610mm) CPZ, RIBBONS AND 36" (914mm) LONG RIBBONS DEPTH

REVISION HISTORY			
REV	BY	DESCRIPTION	DATE
-	ER	FIRST RELEASE	6/17/2019

DATE:	SCALE:
6/17/2019	NTS
DRAWN BY: ER	CHECKED BY:
APPROVED BY	

TITLE:
UP-FLO FILTER
4ft Manhole

6 MODULES MAX

CAPACITIES:
- Minimum performance: 80% removal. Washington DOE/NJCAT verified at the peak treatment flow.
- Peak treatment flow:
  .033 CFS (0.9 LPS) (15 GPM) per module (Ribbons)
  .022 CFS (0.6 LPS) (10 GPM) per module (Long Ribbons)
  .056 CFS (1.6 LPS) (25 GPM) per module (CPZ)
- Maximum number of ribbon modules per outlet module: 36
- Maximum number of CPZ modules per outlet module: 18 (contract Hydro if more are required)

ADDITIONAL DESIGN INFORMATION:
- Normal operating W.S.E. is 26-30" (660-762mm) above the outlet invert
- Media Types Available: Ribbons, CPZ

Sizing Tool

Hydro International

94 Hutchins Drive
Portland, ME 04102
Tel: +1 (207) 756-6200
Fax: +1 (207) 756-6212
hydro-int.com

ANY WARRANTY GIVEN BY HYDRO INTERNATIONAL WILL APPLY ONLY TO THOSE ITEMS SUPPLIED BY IT. ACCORDINGLY, HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY LOSS OR DAMAGE ARISING FROM THE USE OF ANY INFORMATION OR ADVICE GIVEN, WHETHER ORAL OR WRITTEN, BY HYDRO INTERNATIONAL OR ITS AGENTS. BECAUSE WE CONTINUALLY STRIVE TO IMPROVE OUR PRODUCTS AS PART OF OUR POLICY OF CONTINUOUS DEVELOPMENT AND INVESTMENT, HYDRO INTERNATIONAL RESERVES THE RIGHT TO AMEND THE SPECIFICATION. HYDRO INTERNATIONAL CANNOT ACCEPT LIABILITY FOR ERRORS OR OMISSIONS IN ANY EQUIPMENT, OR ANY PART THEREOF, IF THE EQUIPMENT IS SUBJECT TO CONDITIONS OUTSIDE THE RANGE SPECIFIED BY HYDRO INTERNATIONAL. THE DESIGN OF ANY EQUIPMENT OR PART THEREOF WHICH IS SUPPLIED IN ACCORDANCE WITH BUYER'S INSTRUCTIONS IS ENTIRELY THE RESPONSIBILITY OF BUYER AND HYDRO INTERNATIONAL CANNOT ACCEPT ANY RESPONSIBILITY FOR ANY LOSS OR DAMAGE ARISING FROM THE USE OF SUCH EQUIPMENT OR PART THEREOF FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SUPPLIED. IT MUST NOT BE ASSUMED THAT ANY EQUIPMENT IS SUITABLE FOR USE OTHER THAN THAT WHICH IS SPECIFICALLY CONFIRMED BY HYDRO INTERNATIONAL IN WRITING. ANY DESIGN SUGGESTIONS OR RECOMMENDATIONS MADE BY HYDRO INTERNATIONAL IN RELATION TO THE USE OF ITS EQUIPMENT ARE MADE IN GOOD FAITH BUT WITHOUT KNOWLEDGE OF OR RESPONSIBILITY FOR THE SUITABILITY OF THE DESIGN FOR THE PURPOSE INTENDED BY BUYER. ANY SUCH SUGGESTIONS OR RECOMMENDATIONS SHALL NOT BE CONSTRUED AS AN EXPRESS OR IMPLIED WARRANTY THAT THE USE OF THE EQUIPMENT IN ACCORDANCE WITH SUCH SUGGESTIONS OR RECOMMENDATIONS WILL NOT INFRINGE ANY PATENT. NO PERSON IS AUTHORISED TO GIVE ANY WARRANTY OR ASSUME ANY LIABILITY ON BEHALF OF HYDRO INTERNATIONAL UNLESS SUCH WARRANTY OR LIABILITY IS IN WRITING AND IS EXPRESSLY ACCEPTED BY A DULY AUTHORISED OFFICER OF HYDRO INTERNATIONAL.
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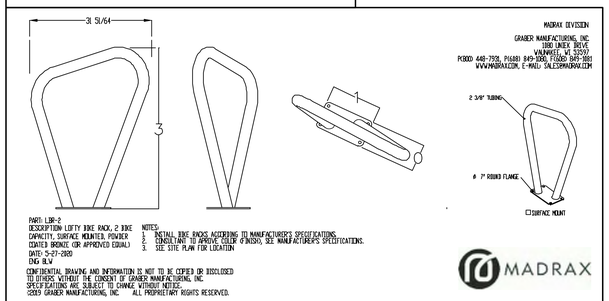
DO NOT SCALE DRAWING	WEIGHT:	MATERIAL:
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.	N/A	
	NEXT ASSEMBLY: 4 MH-1	
TOLERANCES ARE: FRACTIONS ± 1/16	DRAWING NO.: 4 MH-UFF-1	
1-PLACE ± .05	SHEET SIZE: B	SHEET: 1 OF 1
2-PLACE ± .010		REV: -
ANGLES ± 1°		

MADRAX DIVISION
GRABER MANUFACTURING, INC
1880 INDEX DRIVE
MADISON, WI 53707
PO BOX 448-7908, PHONE 849-1000, FAX 849-1001
WWW.MADRAX.COM, E-MAIL: SALES@MADRAX.COM



PART: LBK-2
DESCRIPTION: LOFTY BIKE RACK, 2 BIKE CAPACITY, SURFACE MOUNTED, POWDER COATED BRONZE OR APPROVED EQUAL)
DATE: 5-27-2020
ENG: BLV

NOTES:
1. INSTALL BIKE RACKS ACCRDING TO MANUFACTURER'S SPECIFICATIONS.
2. CONSULTANT TO APPROVE COLOR OF FINISH, SEE MANUFACTURER'S SPECIFICATIONS.
3. SEE SITE PLAN FOR LOCATION

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MADRAX

BIKE RACK DETAIL
N.T.S.

Potter Lawson
Success by Design

JSD
CREATE THE VISION TELL THE STORY
jsdinc.com
MADISON REGIONAL OFFICE
507 WEST VERONA AVENUE, SUITE 500
VERONA, WISCONSIN 53593
P. 608.848.5060

PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

812 W BADGER ROAD
Madison, WI 53713

DATE	ISSUANCE/REVISIONS	
03/16/2026	LAND USE APPLICATION	1
03/27/2026	DD ISSUANCE	2
06/03/2026	UDC INITIAL/FINAL	3

DETAILS

C600

File: J:\JSD\Active\-2025\04\241405\01\WG\Civil Sheets\241405101WGCivil Sheet.dwg, Layout: C600, User: carla.ilenda, Plotted: May 19, 2026 - 1:19pm

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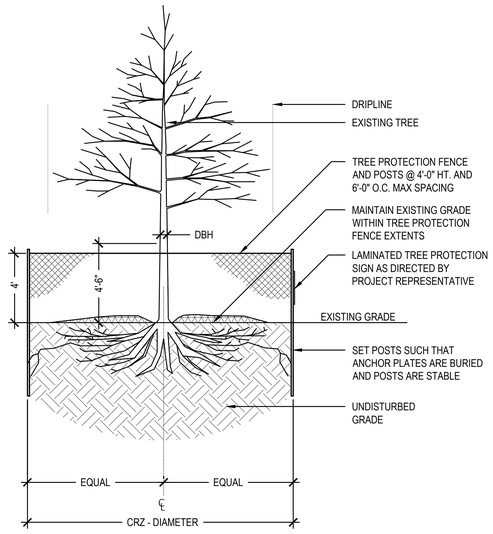


NOTES:

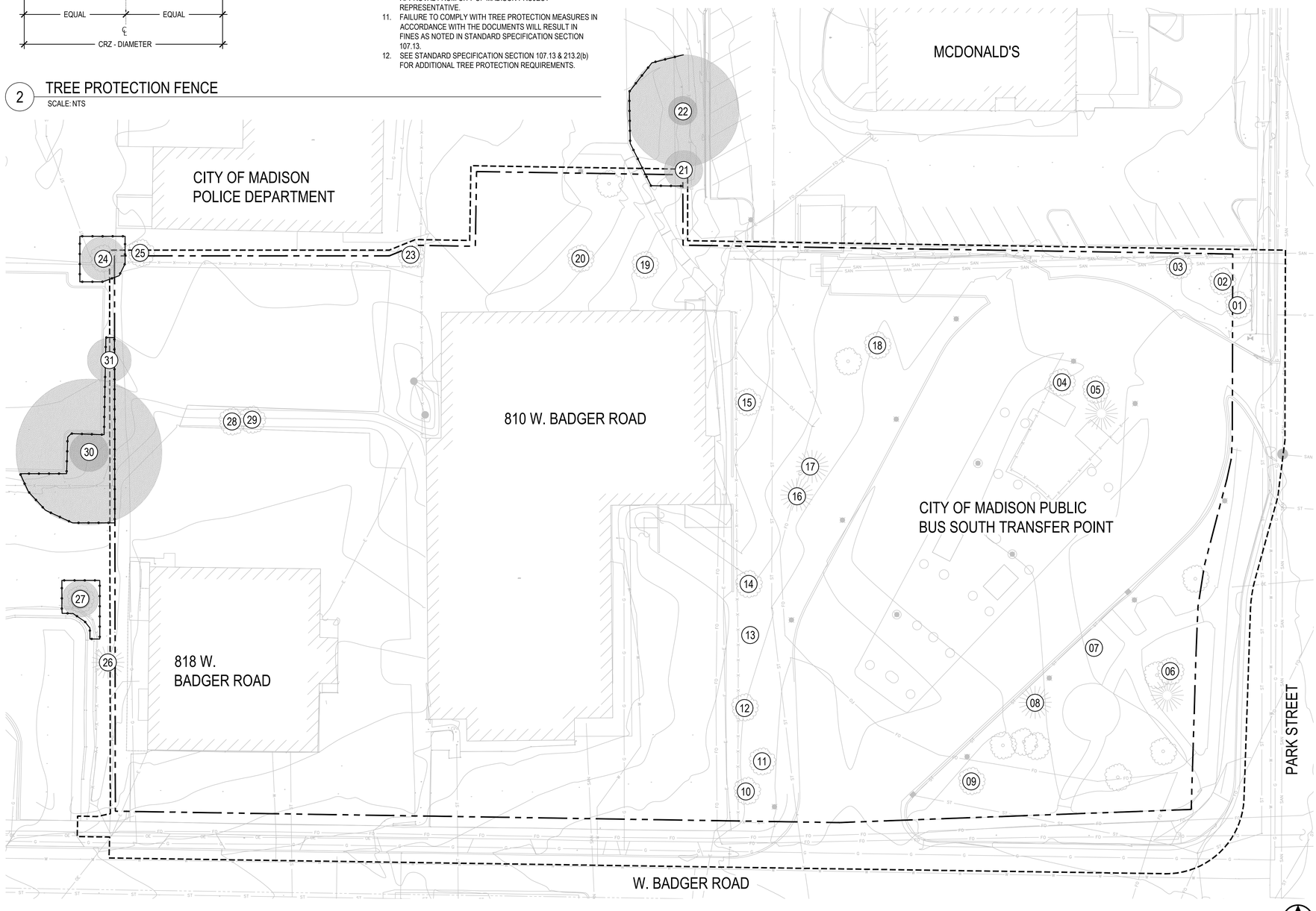
1. DO NOT DRIVE POSTS INTO ANY STRUCTURAL ROOT OR ROOT OVER 1/2" WIDE.
2. TREE PROTECTION FENCE LOCATIONS SHALL BE INSTALLED AS SHOWN ON THE TREE PROTECTION & REMOVALS AND SITE PLANTING PLANS AND ENLARGEMENTS.
3. CALIPER IS MEASURED AT 4'-6" FROM GROUND. (DIAMETER AT BREAST HEIGHT- DBH).
4. THE TREE DRIP LINE IS THE AREA LOCATED DIRECTLY UNDER THE OUTER CIRCUMFERENCE OF THE TREE BRANCHES.
5. CRITICAL ROOT ZONE (CRZ) IS DEFINED BY DBH X 1, EXPRESSED AS A RADIUS IN FEET. FOR EXAMPLE, A 20-INCH TREE WOULD HAVE A CRZ OF 40 TOTAL FEET, 20 FEET IN BOTH DIRECTIONS ALONG THE TERRACE FROM THE TRUNK OF THE TREE.
6. WHEN LOCATED IN THE CITY TERRACE, TREE PROTECTION FENCE SHALL BE PLACED AT THE CRITICAL ROOT ZONE DIAMETER OR THE TREE DRIP LINE, WHICHEVER IS GREATER ALONG THE LENGTH OF THE TERRACE AND FROM THE BACK OF CURB TO BACK OF SIDEWALK.
7. WHEN LOCATED ON PRIVATE PROPERTY, TREE PROTECTION FENCE SHALL BE PLACED AT THE CRITICAL ROOT ZONE DIAMETER OR THE TREE TRIP LINE, WHICHEVER IS GREATER.
8. NO CONSTRUCTION EQUIPMENT, STAGING, ACTIVITY, EXCAVATED MATERIALS OR DEBRIS, OR CONSTRUCTION MATERIALS STORAGE SHALL TAKE PLACE WITHIN TREE PROTECTION ZONES.
9. TREE PROTECTION FENCE SHALL NOT BE MOVED WITHOUT APPROVAL FROM CITY OF MADISON PROJECT REPRESENTATIVE.
10. NO PRUNING SHALL BE ALLOWED ON EXISTING TREES TO REMAIN LOCATED WITHIN THE CITY TERRACE WITHOUT APPROVAL FROM CITY OF MADISON PROJECT REPRESENTATIVE.
11. FAILURE TO COMPLY WITH TREE PROTECTION MEASURES IN ACCORDANCE WITH THE DOCUMENTS WILL RESULT IN FINES AS NOTED IN STANDARD SPECIFICATION SECTION 107.13.
12. SEE STANDARD SPECIFICATION SECTION 107.13 & 213.2(b) FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.

2 TREE PROTECTION FENCE

SCALE: NTS

TREE PROTECTION & REMOVALS INVENTORY

Tree Number	Species	Circumfrence (Inches)	Caliper/DBH (Inches)	Calculated CRZ (Diameter, in Feet)	Root Plate Zone (Diameter, in Feet)	Status
1	Cockspur Hawthorn	16	5.10	12.74	3.40	Remove
2	Red Oak	48	15.29	38.22	10.19	Remove
3	Cockspur Hawthorn	23	7.32	18.31	4.88	Remove
4	White Pine	29	9.24	23.09	6.16	Remove
5	Crab Apple	21	6.69	16.72	4.46	Remove
6	Common Serviceberry	12	3.82	9.55	2.55	Remove
7	Cockspur Hawthorn	16	5.10	12.74	3.40	Remove
8	Norway Spruce	29	9.24	23.09	6.16	Remove
9	Crab Apple	14	4.46	11.15	2.97	Remove
10	Cockspur Hawthorn	14	4.46	11.15	2.97	Remove
11	Honey Locust	47	14.97	37.42	9.98	Remove
12	Cockspur Hawthorn	22	7.01	17.52	4.67	Remove
13	Crab Apple	24	7.64	19.11	5.10	Remove
14	English Oak	57	18.15	45.38	12.10	Remove
15	Red Maple	45	14.33	35.83	9.55	Remove
16	Norway Spruce	32	10.19	25.48	6.79	Remove
17	White Spruce	19	6.05	15.13	4.03	Remove
18	English Oak	52	16.56	41.40	11.04	Remove
19	Bur Oak	98	31.21	78.03	20.81	Remove
20	Bur Oak	133	42.36	105.89	28.24	Remove
21	Black Walnut	21	6.69	16.72	4.46	Remain
22	Black Walnut	59	18.79	46.97	12.53	Remain
23	English Oak	22	7.01	17.52	4.67	Remove
24	Crab Apple	24	7.64	19.11	5.10	Remain
25	Crab Apple	26	8.28	20.70	5.52	Remove
26	White Pine	75	23.89	59.71	15.92	Remove
27	Japanese Tree Lilac	20	6.37	15.92	4.25	Remain
28	Black Walnut	46	14.65	36.62	9.77	Remove
29	Black Walnut	50	15.92	39.81	10.62	Remove
30	Silver Maple	80	25.48	63.69	16.99	Remain
31	Red Maple	24	7.64	19.11	5.10	Remain



1 TREE PROTECTION & REMOVALS PLAN

SCALE: 1" = 20'-0"

0 20' 40'
1" = 20'

NORTH

LEGEND

- PROPERTY LINE / PUBLIC R.O.W.
- LIMITS OF CONSTRUCTION
- TREE PROTECTION FENCE
- TREE CANOPY
- CRITICAL ROOT ZONE (CRZ)
- TREE NUMBER
- ROOT PLATE ZONE (RPZ)

NOTES

1. FIELD VERIFY SURVEY INFORMATION AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
2. CONTACT DIGGER'S HOTLINE (1-800-242-8511 OR 811) TO LOCATE PUBLIC UTILITIES. COORDINATE WITH OWNER AND/OR PRIVATE LOCATOR TO LOCATE PRIVATE UTILITIES INCLUDING IRRIGATION.
3. PROTECT ALL EXISTING FEATURES TO REMAIN INCLUDING BUILDINGS, PAVEMENTS, CURBS, UTILITIES, SIGNS, STRUCTURES, AND LANDSCAPING. REPAIR OR REPLACE DAMAGE CAUSED TO EXISTING FEATURES, WHETHER SHOWN OR NOT, AT CONTRACTOR'S EXPENSE TO MATCH EXISTING CONDITIONS UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS.
4. PROTECT OR RELOCATE ALL BENCHMARKS. INCLUDE ANY RELOCATED BENCHMARKS IN AS-BUILTS.
5. INSTALL TREE PROTECTION FENCING AROUND ALL TREES, SHRUBS, AND PLANTING BEDS TO REMAIN AT MOBILIZATION. AVOID SOIL COMPACTION AND TRAMPLING VEGETATION ALONG THE FENCE LINE. MAINTAIN FENCING THROUGHOUT CONSTRUCTION. DO NOT MOVE FENCING WITHOUT LANDSCAPE ARCHITECT APPROVAL.
6. NO CONSTRUCTION, STAGING, MATERIALS STORAGE, TRENCHING, DISPOSAL OF MATERIALS, OR PARKING IS PERMITTED WITHIN TREE PROTECTION ZONES.
7. TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR OR IMPAIR THE HEALTH OF ANY TREE. PROTECT TREE CANOPIES AND BRANCHES FROM OVERHEAD DAMAGE BY CONSTRUCTION MATERIALS LIFTING OR EQUIPMENT. THIS MAY REQUIRE USING SMALLER EQUIPMENT AND LOADING MATERIAL IN A DESIGNATED SPACE AWAY FROM EXISTING TREES ON AND ADJACENT TO THE CONSTRUCTION SITE.
8. MAINTAIN VEGETATION HEALTH WITHIN TREE PROTECTION ZONES INCLUDING MOWING, WATERING, WEEDING, ETC.
9. TREE HEIGHTS AND CALIPERS ARE APPROXIMATE. CRITICAL ROOT ZONE (CRZ) AND ROOT PROTECTION ZONE (RPZ) LIMITS ARE THEORETICAL AND PROVIDED FOR REFERENCE ONLY. THE CONTRACTOR'S ARBORIST SHALL FIELD VERIFY LIMITS AND RECOMMEND PRESERVATION OR REMOVAL BASED ON FIELD CONDITIONS. OBTAIN LANDSCAPE ARCHITECT APPROVAL PRIOR TO ANY REMOVALS.
10. CRZ AND RPZ AREAS SHOWN OUTSIDE THE CONSTRUCTION LIMITS ARE FOR INFORMATION ONLY IN THE EVENT OF ADDITIONAL UNFORESEEN WORK.
11. REPORT ANY DAMAGE OR INJURY TO EXISTING VEGETATION IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. CONTRACTOR'S ARBORIST SHALL PROVIDE TREATMENT RECOMMENDATIONS AND CARE PLAN. PENALTIES MAY BE ASSESSED BASED ON THE APPRAISED VALUE.
12. AVOID DISTURBANCE TO ELMS BETWEEN APRIL 15 AND OCTOBER 15 TO PREVENT DUTCH ELM DISEASE. IF WORK IS UNAVOIDABLE, CONTRACTOR'S ARBORIST SHALL PROVIDE A TREATMENT PLAN.
13. AVOID DISTURBANCE TO OAKS BETWEEN APRIL 15 AND JULY 1 TO PREVENT OAK WILT. IF WORK IS UNAVOIDABLE, CONTRACTOR'S ARBORIST SHALL PROVIDE A TREATMENT PLAN.
14. PERFORM ALL PRUNING IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300-PART 1, STANDARDS FOR PRUNING.

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PRELIMINARY
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2024.22.02

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TREE PROTECTION & REMOVALS PLAN

L001

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LEGEND

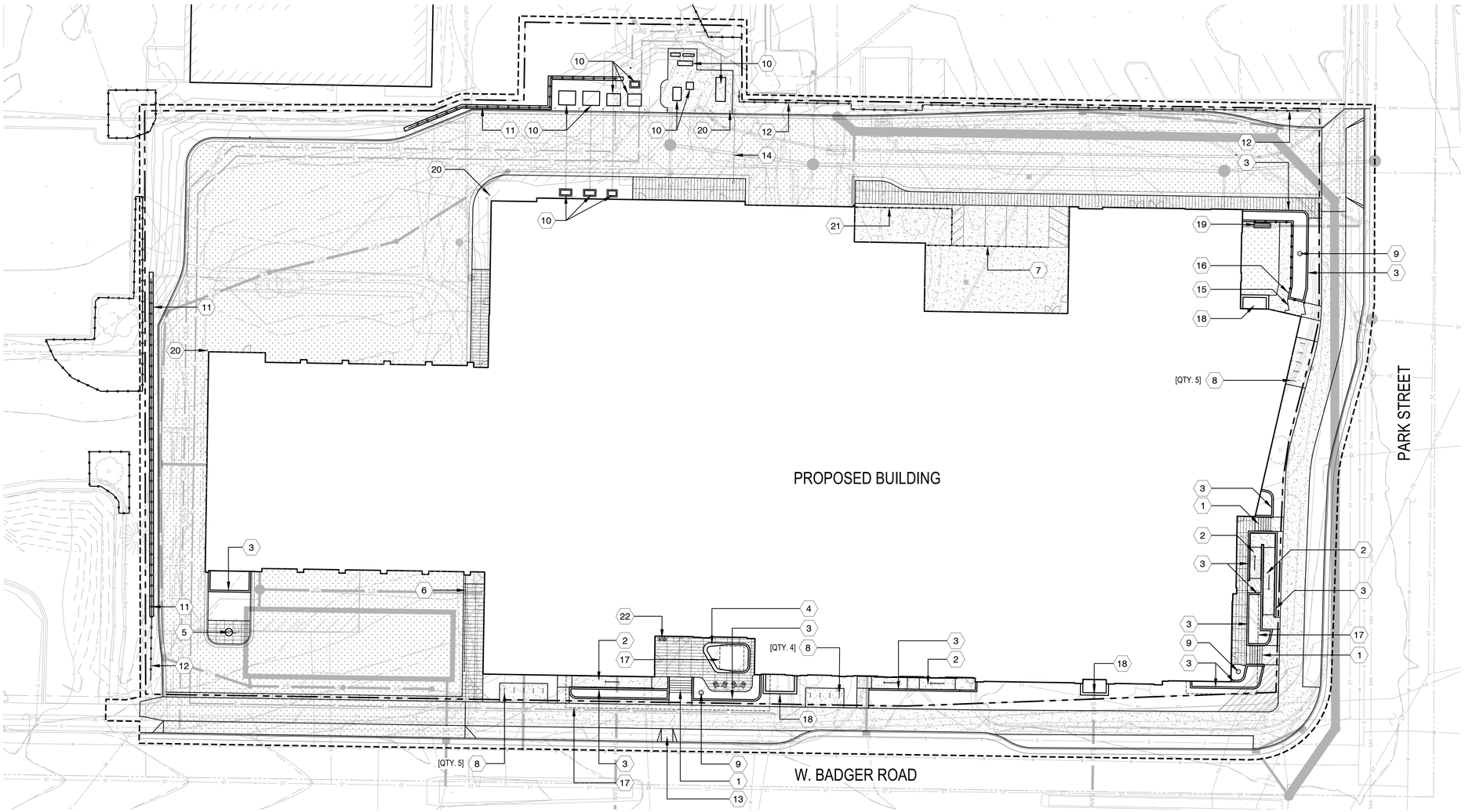
- PROPERTY LINE / PUBLIC R.O.W.
- LIMITS OF CONSTRUCTION
- TREE PROTECTION FENCE
- STANDARD CONCRETE PAVEMENT
- STANDARD COLORED CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- HEAVY DUTY COLORED CONCRETE PAVEMENT BAND
- ARTIFICIAL PET TURF
- MOVEABLE SITE FURNISHINGS - SHOWN FOR REFERENCE ONLY
- VISION TRIANGLE, TYP.

REFERENCE SCHEDULE

1. CONCRETE STAIR WITH HANDRAIL, BOTH SIDES, TYP.
2. CONCRETE RAMP WITH HANDRAIL, BOTH SIDES, TYP.
3. C.I.P. CONCRETE WALL - SEE ARCHITECTURAL PLANS
4. C.I.P. CONCRETE SEAT WALL - OVER STRUCTURE
5. FLAG POLE
6. SPECIALTY GUARDRAIL
7. SPECIALTY SCREEN FENCE
8. BIKE RACK, TYP.
9. PUBLIC ART PIECE - SHOWN FOR REFERENCE ONLY
10. SITE UTILITY - SEE CIVIL PLANS
11. CONCRETE RETAINING WALL & GUARDRAIL - SEE CIVIL PLANS
12. SITE PERIMETER FENCE
13. PEDESTRIAN CURB RAMP - SEE CIVIL PLANS
14. BARRIER ARM GATE - SEE CIVIL
15. DOG RUN FENCE & GATE
16. PET WASTE RECEPTACLE
17. BUILDING CANOPY - SEE ARCHITECTURE PLANS
18. AREA WELL - SEE ARCHITECTURE PLANS
19. 6' BENCH, TYP.
20. UTILITY BOLLARD - SEE CIVIL PLANS
21. UTILITY SCREEN FENCE & GATE - SEE ARCHITECTURE PLANS
22. LITTER & RECYCLING RECEPTACLES

NOTES

1. FIELD VERIFY SURVEY INFORMATION AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
2. CONTACT DIGGER'S HOTLINE (1-800-242-8511 OR 811) TO LOCATE PUBLIC UTILITIES. COORDINATE WITH OWNER AND/OR PRIVATE LOCATOR TO LOCATE PRIVATE UTILITIES INCLUDING IRRIGATION.
3. PROTECT ALL EXISTING FEATURES TO REMAIN INCLUDING BUILDINGS, PAVEMENTS, CURBS, UTILITIES, SIGNS, STRUCTURES, AND LANDSCAPING. REPAIR OR REPLACE DAMAGE CAUSED TO EXISTING FEATURES, WHETHER SHOWN OR NOT, AT CONTRACTOR'S EXPENSE TO MATCH EXISTING CONDITIONS UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS.
4. PROTECT OR RELOCATE ALL BENCHMARKS. INCLUDE ANY RELOCATED BENCHMARKS IN AS-BUILTS.
5. PROVIDE CONSTRUCTION STAKING FOR ALL HORIZONTAL AND VERTICAL ALIGNMENTS.
6. ANY DEVIATION FROM THE LAYOUT AND DIMENSIONS SHOWN ON THE PLANS REQUIRE APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH MODIFICATIONS.
7. SUBMIT CONCRETE PAVING JOINTING PLAN. ANY DEVIATION FROM THE CONCRETE JOINTING LAYOUT AS SHOWN ON THE CONTRACT DRAWINGS WILL REQUIRE REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING WITH MODIFICATIONS.
8. ALL DISTURBED PAVEMENT AREAS SHALL BE RESTORED WITH CONCRETE OR ASPHALT PAVEMENT EITHER TEMPORARILY OR PER THE FINAL PAVEMENT CONDITIONS AS SHOWN ON THE CONTRACT DRAWINGS. GRAVEL, SOIL, OR OTHER BACKFILL MATERIALS ARE NOT ACCEPTABLE.
9. VERIFY LOCATION AND ORIENTATION OF ALL SITE FURNISHINGS AND SIGNAGE WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
10. HANDRAILS SHALL BE INSTALLED ON BOTH SIDES OF ALL RAMPS AND STAIRS.
11. BICYCLE RACKS SHALL BE A MINIMUM OF 2'-0" X 8'-0". PLACEMENT SHALL NOT RESULT IN THE OBSTRUCTION OF A WALKWAY. BICYCLE RACKS SHALL BE SPACED 4'-0" APART AS INDICATED.CONTACT THE CITY OF MADISON PROJECT REPRESENTATIVE NO MORE THAN FIVE BUSINESS DAYS PRIOR TO PERFORMING ANY WORK WITHIN THE RIGHT OF WAY TO CONFIRM RESTORATION SHOWN IN THE CONTRACT DRAWINGS.
12. THE RIGHT OF WAY IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION OF TRAFFIC ENGINEERING AND ENGINEERING DIVISIONS. FORWARD ANY CHANGES PROPOSED BY CITY OFFICIALS TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR TO PROCEEDING.
13. ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY A CITY OF MADISON FORESTRY REPRESENTATIVE BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRE APPROVAL AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVAL(S) REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS WILL REQUIRE A MINIMUM REVIEW PERIOD OF 72 HOURS, WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN THE DEVELOPMENT'S DISTRICT PRIOR TO A STREET TREE REMOVAL PERMIT BEING ISSUED.
14. STREET TREE PROTECTION ZONE FENCING IS REQUIRED. FENCING SHALL BE IN PLACE UPON CONTRACTOR MOBILIZATION OF THE SITE AND MAINTAINED THROUGHOUT ALL PHASES OF PROJECT CONSTRUCTION. THE FENCE SHALL ENCOMPASS THE ENTIRE WIDTH OF THE TERRACE AND EXTEND THE GREATER OF 5 FEET OR 1 FOOT PER 1 INCH OF EXISTING TREE TRUNK DIAMETER AT BREAST HEIGHT (DBH) IN EACH DIRECTION FROM THE OUTSIDE EDGE OF THE TREE TRUNK, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. TREE PROTECTION FENCING SHALL NOT BE MOVED WITHOUT APPROVAL FROM A CITY OF MADISON FORESTRY REPRESENTATIVE.
15. SECTION 107.13(G) OF CITY OF MADISON STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM) ADDRESSES SOIL COMPACTION NEAR STREET TREES AND SHALL BE FOLLOWED BY THE CONTRACTOR. THE STORAGE OF PARKED VEHICLES, CONSTRUCTION EQUIPMENT, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS ON OR AROUND TREES AND ROOTS WITHIN THE TREE PROTECTION ZONE IS PROHIBITED.
16. AS DEFINED BY SECTION 107.13 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION: NO GRADING OR EXCAVATION IS PERMITTED WITHIN THE TREE PROTECTION ZONE. IF EXCAVATION IS NECESSARY, CONTACT CITY OF MADISON FORESTRY AT (608) 266-4816 PRIOR TO EXCAVATION. A CITY OF MADISON FORESTRY REPRESENTATIVE SHALL ASSESS THE IMPACT TO THE TREE AND ITS ROOT SYSTEM PRIOR TO WORK COMMENCING. TREE PROTECTION SPECIFICATIONS CAN BE FOUND ON THE FOLLOWING WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM
17. TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR, OR IMPAIR THE HEALTH OF ANY STREET TREE. OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREE(S). THIS MAY REQUIRE USING SMALLER EQUIPMENT AND LOADING AND UNLOADING MATERIALS IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES (EITHER ABOVE OR BELOW GROUND) SHALL BE REPORTED IMMEDIATELY TO A CITY OF MADISON FORESTRY REPRESENTATIVE AT (608) 266-4816 FOR ASSESSING REMEDIATION AND/OR PENALTIES.
18. STREET TREE PRUNING SHALL BE COORDINATED WITH A CITY OF MADISON FORESTRY REPRESENTATIVE A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT. CONTACT CITY FORESTRY AT (608)266-4816. ALL PRUNING SHALL FOLLOW THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300 - PART 1 STANDARDS FOR PRUNING.
19. ADDITIONAL STREET TREES ARE NEEDED FOR THIS PROJECT. TREE PLANTING SPECIFICATIONS CAN BE FOUND IN SECTION 209 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL STREET TREE PLANTING LOCATIONS AND TREE SPECIES WITHIN THE RIGHT OF WAY SHALL BE DETERMINED BY A CITY OF MADISON FORESTRY REPRESENTATIVE.
20. AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING, CONTACT CITY OF MADISON FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS.
21. MARK LOCATIONS FOR PROPOSED TREE PLANTINGS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTACT A CITY OF MADISON FORESTRY REPRESENTATIVE AT (608) 266-4816 FOR REVIEW. ONCE THE TREE PLANTING LOCATIONS ARE MARKED AND CONFIRMED, EXCAVATE THE TERRACE AREA TO A SUITABLE DEPTH FOR NEW TREE PLANTINGS, APPROXIMATELY 20 INCHES TO 24 INCHES. THE TERRACE SHALL BE EXCAVATED TO A MINIMUM LENGTH OF 20 FEET, BUT THAT MAY BE REDUCED BY THE CONSTRUCTION ENGINEER TO FIT SITE CONSTRAINTS AS NECESSARY. THE WIDTH OF THE TERRACE SHALL ALSO BE EXCAVATED TO AS CLOSE TO THE SIDEWALK/PATH AND CURB AS IS REASONABLE. WHILE PERFORMING THE EXCAVATION, TAKE CARE NOT TO UNDERMINE OR DAMAGE THE ADJACENT CURB OR SIDEWALK. IF DAMAGED DURING THE EXCAVATION PROCESS, THE CONTRACTOR SHALL REPLACE CURB OR SIDEWALK/PATH AT THEIR COST. ONCE THE AREA IS EXCAVATED, BACKFILL THE EXCAVATED AREA WITH REGULAR TOPSOIL AND THE SURFACE SHALL BE RESTORED WITH SEED AND EROSION MAT, ALL OF WHICH WILL BE PAID UNDER THE APPROPRIATE BID ITEMS.
22. ALL WRAPPINGS, WIRE BASKETS, BURLAP, AND OTHER MISCELLANEOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM ALL SHRUB AND TREE ROOT BALLS PRIOR TO INSTALLATION.



1 SITE LAYOUT & MATERIALS PLAN
SCALE: 1" = 20'-0"

0 20' 40'
1" = 20'

NORTH

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LANDSCAPE ARCHITECT
6/3/2026

PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

2430 S Park Street
Madison, WI 53713

2024.22.02

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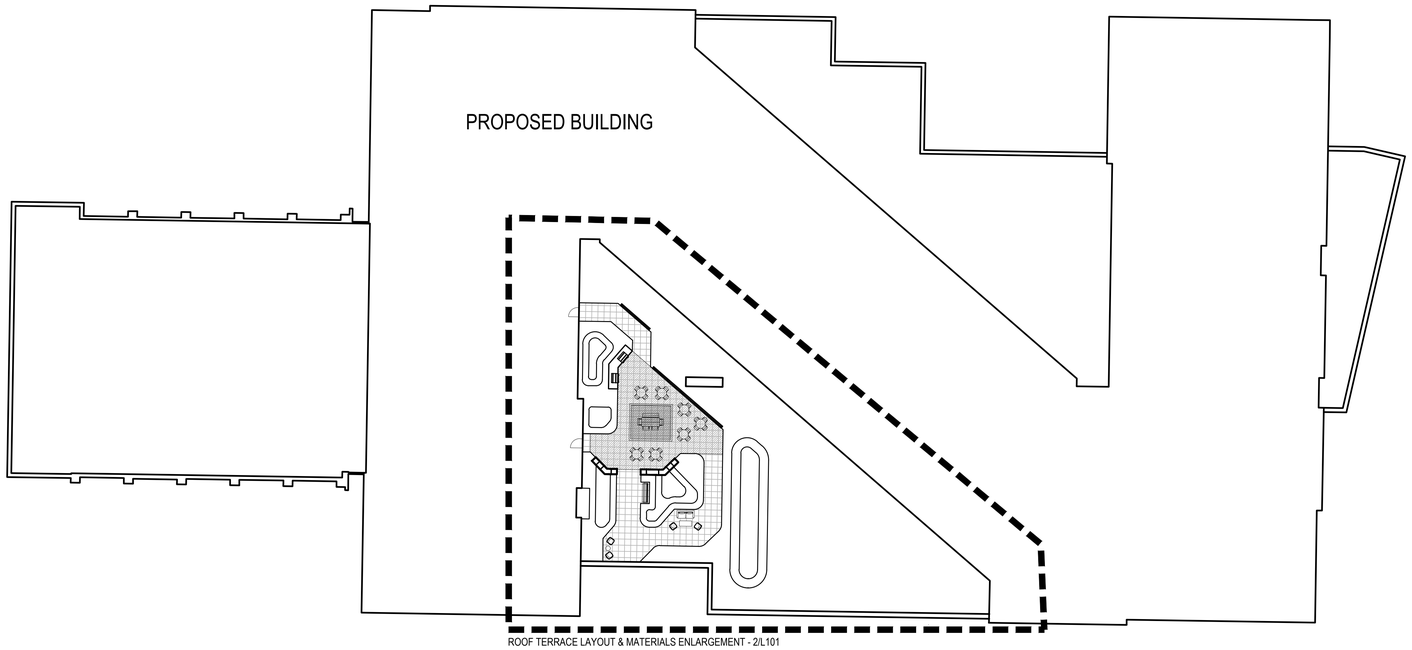
SITE LAYOUT AND MATERIALS PLAN

L100



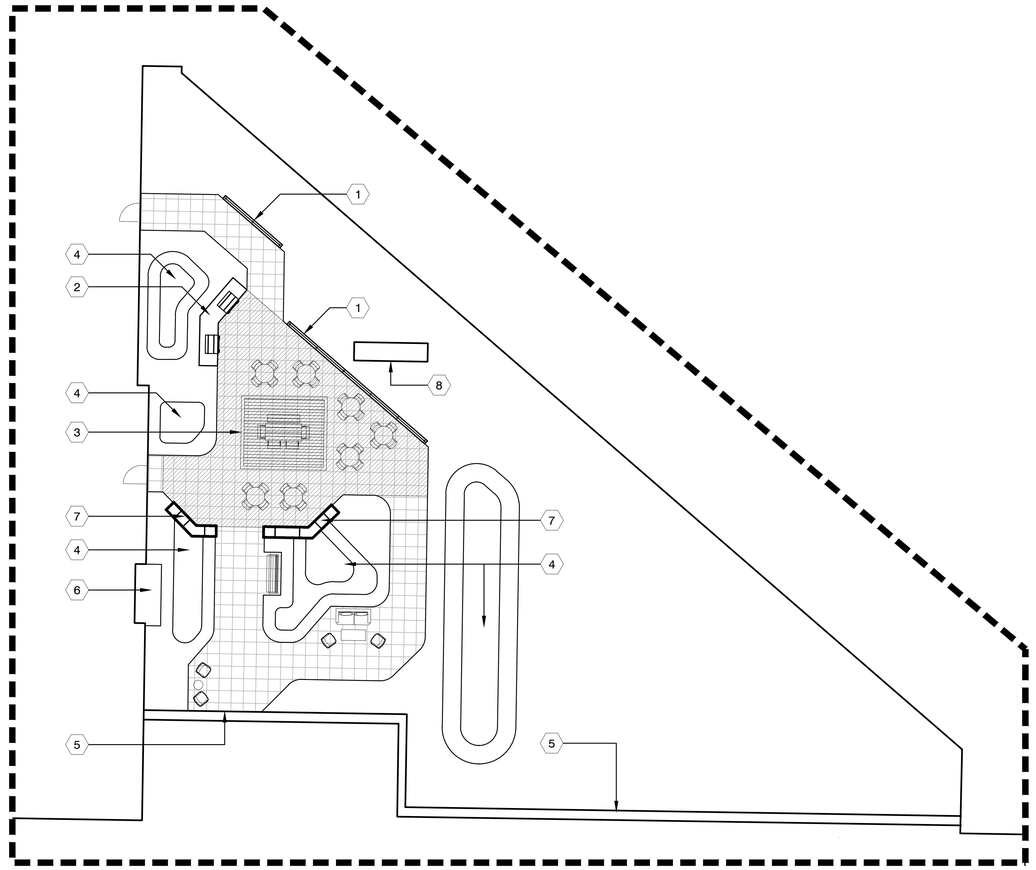
ROOF TERRACE LAYOUT & MATERIALS ENLARGEMENT - 2/L101

1 ROOF TERRACE LAYOUT & MATERIALS PLAN

SCALE: 1" = 20'-0"

0 20' 40'
1" = 20'

NORTH



2 ROOF TERRACE LAYOUT & MATERIALS ENLARGEMENT

SCALE: 1" = 10'-0"

0 10' 20'
1" = 10'

NORTH

LEGEND

- CONCRETE UNIT PAVER ON PEDESTAL - TYPE 1
- CONCRETE UNIT PAVER ON PEDESTAL - TYPE 2
- MOVEABLE SITE FURNISHINGS - SHOWN FOR REFERENCE ONLY

REFERENCE SCHEDULE

1. DECORATIVE METAL SCREEN FENCE - 4'-0" HT.
2. GRILL COUNTER
3. OVERHEAD SHADE STRUCTURE WITH INTEGRATED LIGHTING
4. MOUNDED PLANTING
5. PARAPET WALL WITH GUARDRAIL - SEE ARCHITECTURAL PLANS
6. PRIVATE UNIT PATIOS - SEE ARCHITECTURAL PLANS
7. PRECAST CONCRETE SEAT WALL - 18" HT.
8. MECHANICAL AIR INTAKE - SEE MEP PLANS

NOTES

1. SEE SHEET L100 FOR APPLICABLE NOTES.

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ROOF TERRACE LAYOUT & MATERIALS PLAN & ENLARGEMENT

L101

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LEGEND

- PROPERTY LINE / PUBLIC R.O.W.
- LIMITS OF CONSTRUCTION
- TREE PROTECTION FENCE - 2/L001
- FULL SUN SHRUB & PERENNIAL MIX - 18-24" DEPTH TOPSOIL, SAND, AND COMPOST
- SEEDED BLUEGRASS LAWN - CITY TERRACE RESTORATION
- SODDED BLUEGRASS LAWN
- SEEDED LOW-MOW FESCUE LAWN
- NATIVE VEGETATIVE MAT (NVM)
- STONE MAINTENANCE EDGE
- METAL EDGE - 0/L000
- TREE MULCH RING - TWICE-SHREDDED HARDWOOD BARK MULCH
- SPADED EDGE
- TRENCH EDGE

NOTES

1. FIELD VERIFY SURVEY INFORMATION AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE.
2. CONTACT DIGGER'S HOTLINE (1-800-242-8511 OR 811) TO LOCATE PUBLIC UTILITIES. COORDINATE WITH OWNER AND/OR PRIVATE LOCATOR TO LOCATE PRIVATE UTILITIES INCLUDING IRRIGATION.
3. PROTECT ALL EXISTING FEATURES TO REMAIN INCLUDING BUILDINGS, PAVEMENTS, CURBS, UTILITIES, SIGNS, STRUCTURES, AND LANDSCAPING. REPAIR OR REPLACE DAMAGE CAUSED TO EXISTING FEATURES, WHETHER SHOWN OR NOT, AT CONTRACTOR'S EXPENSE TO MATCH EXISTING CONDITIONS UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS.
4. PROTECT OR RELOCATE ALL BENCHMARKS. INCLUDE ANY RELOCATED BENCHMARKS IN AS-BUILTS.
5. SUBMIT SOIL TESTING REQUIREMENTS IN ACCORDANCE WITH SECTION 32 91 13 - SOIL PREPARATION.
6. VISUALLY INSPECT AND VERIFY THAT THE SPECIFIED TOPSOIL AND PLANTING MIXTURE DEPTHS ARE PRESENT PRIOR TO PLANTING AS OUTLINED IN SECTION 32 91 13 - SOIL PREPARATION.
7. SPACE PLANTINGS PER PLANT SCHEDULE(S) INCLUDED ON THE CONTRACT DRAWINGS.
8. ALL WRAPPINGS, WIRE BASKETS, BURLAP, TWINE/ROPE, POTS, AND OTHER MISCELLANEOUS MATERIAL SHALL BE COMPLETELY REMOVED FROM ALL NURSERY STOCK PRIOR TO INSTALLATION.
9. ROOT FLARE OF ALL TREES MUST BE VISIBLE PRIOR TO AND AFTER PLANTING.
10. ALL EXISTING LAWN AREAS WITHIN AND ADJACENT TO THE PROJECT SITE THAT ARE DISTURBED BY CONSTRUCTION RELATED ACTIVITIES INCLUDING, BUT NOT LIMITED TO, UTILITY TRENCHING, ACCESS, OR MATERIALS STORAGE SHALL BE REPAIRED WITH (INSERT SEED OR SOD OR NATIVE SEED) AS OUTLINED IN SECTION 32 92 00 - TURF AND GRASSES.
11. APPLY MYCORRHIZAL FUNGI TO ALL PLANTING LOCATIONS IN ACCORDANCE WITH SECTION 32 93 00 - PLANTS.
12. ALL PLANTING BEDS SHALL HAVE SHREDDED HARDWOOD BARK MULCH IN ACCORDANCE WITH SECTION 32 93 00 - PLANTS, UNLESS OTHERWISE NOTED.
13. WATER AND MAINTAIN ALL PLANTINGS, SEED AND SOD IMMEDIATELY UPON DELIVERY AND INSTALLATION ON SITE THROUGH THE MAINTENANCE AND WARRANTY PERIODS AND AS OUTLINED IN SECTION 32 92 00 - TURF AND GRASSES AND SECTION 32 93 00 - PLANTS.
14. ALL PROPOSED STREET TREE REMOVALS WITHIN THE RIGHT OF WAY SHALL BE REVIEWED BY A CITY OF MADISON FORESTRY REPRESENTATIVE BEFORE THE PLAN COMMISSION MEETING. STREET TREE REMOVALS REQUIRE APPROVAL AND A TREE REMOVAL PERMIT ISSUED BY CITY FORESTRY. ANY STREET TREE REMOVAL(S) REQUESTED AFTER THE DEVELOPMENT PLAN IS APPROVED BY THE PLAN COMMISSION OR THE BOARD OF PUBLIC WORKS WILL REQUIRE A MINIMUM REVIEW PERIOD OF 72 HOURS, WHICH SHALL INCLUDE THE NOTIFICATION OF THE ALDERPERSON WITHIN THE DEVELOPMENT'S DISTRICT PRIOR TO A STREET TREE REMOVAL PERMIT BEING ISSUED.
15. STREET TREE PROTECTION ZONE FENCING IS REQUIRED. FENCING SHALL BE IN PLACE UPON CONTRACTOR MOBILIZATION OF THE SITE AND MAINTAINED THROUGHOUT ALL PHASES OF PROJECT CONSTRUCTION. THE FENCE SHALL ENCOMPASS THE ENTIRE WIDTH OF THE TERRACE AND EXTEND THE GREATER OF 5 FEET OR 1 FOOT PER 1 INCH OF EXISTING TREE TRUNK DIAMETER AT BREAST HEIGHT (DBH) IN EACH DIRECTION FROM THE OUTSIDE EDGE OF THE TREE TRUNK, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. TREE PROTECTION FENCING SHALL NOT BE MOVED WITHOUT APPROVAL FROM A CITY OF MADISON FORESTRY REPRESENTATIVE.
16. SECTION 107.13(G) OF CITY OF MADISON STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (WEBSITE: HTTPS://WWW.CITYOFMADISON.COM/BUSINESS/PW/SPECS.CFM) ADDRESSES SOIL COMPACTION NEAR STREET TREES AND SHALL BE FOLLOWED BY THE CONTRACTOR. THE STORAGE OF PARKED VEHICLES, CONSTRUCTION EQUIPMENT, BUILDING MATERIALS, REFUSE, EXCAVATED SPOILS OR DUMPING OF POISONOUS MATERIALS ON OR AROUND TREES AND ROOTS WITHIN THE TREE PROTECTION ZONE IS PROHIBITED.
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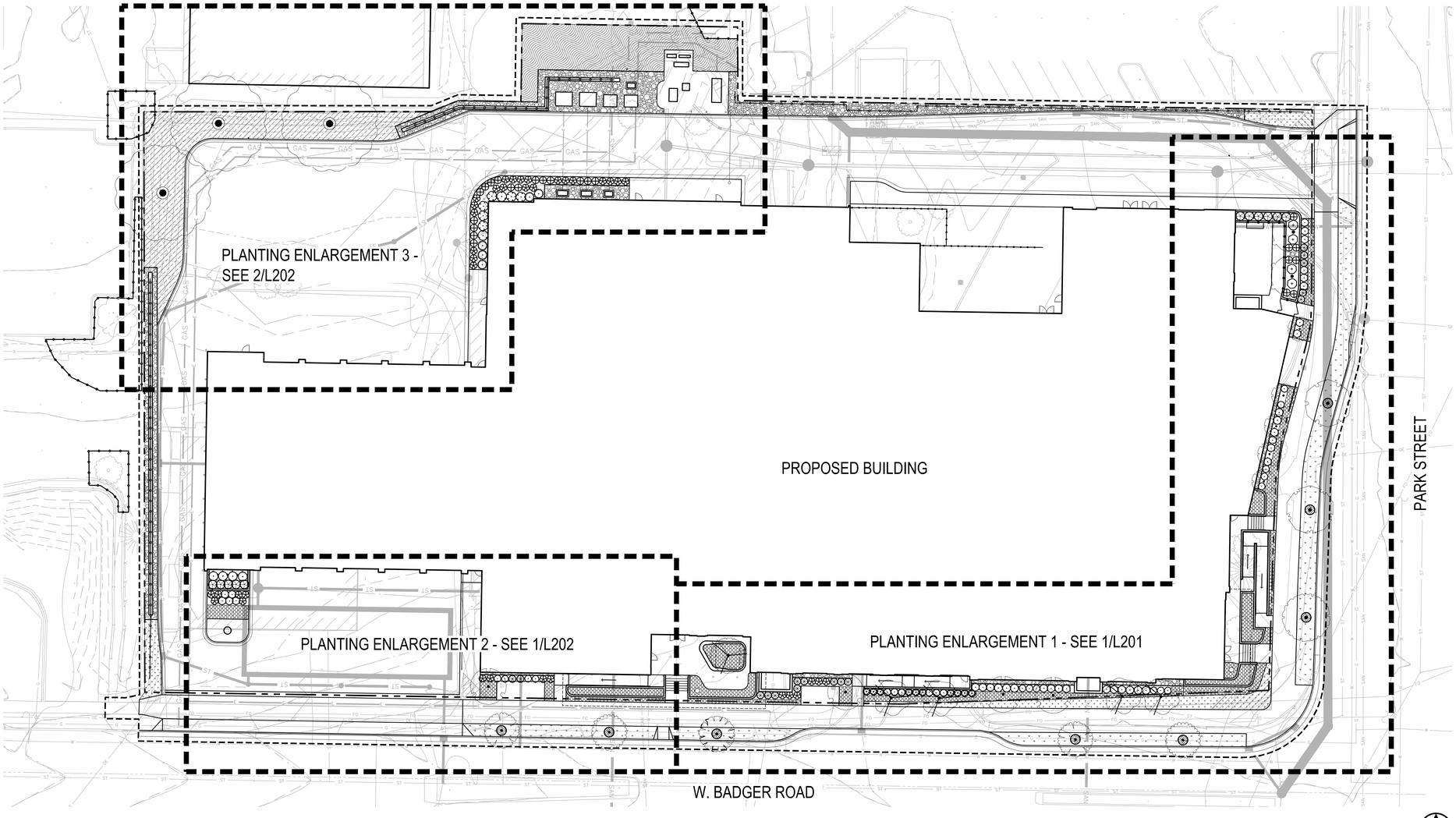
18. TAKE PRECAUTIONS DURING CONSTRUCTION TO NOT DISFIGURE, SCAR, OR IMPAIR THE HEALTH OF ANY STREET TREE. OPERATE EQUIPMENT IN A MANNER AS TO NOT DAMAGE THE BRANCHES OF THE STREET TREE(S). THIS MAY REQUIRE USING SMALLER EQUIPMENT AND LOADING AND UNLOADING MATERIALS IN A DESIGNATED SPACE AWAY FROM TREES ON THE CONSTRUCTION SITE. ANY DAMAGE OR INJURY TO EXISTING STREET TREES (EITHER ABOVE OR BELOW GROUND) SHALL BE REPORTED IMMEDIATELY TO A CITY OF MADISON FORESTRY REPRESENTATIVE AT (608) 266-4816 FOR ASSESSING REMEDIATION AND/OR PENALTIES.
19. STREET TREE PRUNING SHALL BE COORDINATED WITH A CITY OF MADISON FORESTRY REPRESENTATIVE A MINIMUM OF TWO WEEKS PRIOR TO THE START OF CONSTRUCTION FOR THIS PROJECT. CONTACT CITY FORESTRY AT (608)266-4816. ALL PRUNING SHALL FOLLOW THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A300 - PART 1 STANDARDS FOR PRUNING.
20. ADDITIONAL STREET TREES ARE NEEDED FOR THIS PROJECT. TREE PLANTING SPECIFICATIONS CAN BE FOUND IN SECTION 209 OF CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION. ALL STREET TREE PLANTING LOCATIONS AND TREE SPECIES WITHIN THE RIGHT OF WAY SHALL BE DETERMINED BY A CITY OF MADISON FORESTRY REPRESENTATIVE.
21. AT LEAST ONE WEEK PRIOR TO STREET TREE PLANTING, CONTACT CITY OF MADISON FORESTRY AT (608) 266-4816 TO SCHEDULE INSPECTION AND APPROVAL OF NURSERY TREE STOCK AND REVIEW PLANTING SPECIFICATIONS.
22. MARK LOCATIONS FOR PROPOSED TREE PLANTINGS AS INDICATED ON THE CONTRACT DRAWINGS AND CONTACT A CITY OF MADISON FORESTRY REPRESENTATIVE AT (608) 266-4816 FOR REVIEW. ONCE THE TREE PLANTING LOCATIONS ARE MARKED AND CONFIRMED, EXCAVATE THE TERRACE AREA TO A SUITABLE DEPTH FOR NEW TREE PLANTINGS, APPROXIMATELY 20 INCHES TO 24 INCHES. THE TERRACE SHALL BE EXCAVATED TO A MINIMUM LENGTH OF 20 FEET, BUT THAT MAY BE REDUCED BY THE CONSTRUCTION ENGINEER TO FIT SITE CONSTRAINTS AS NECESSARY. THE WIDTH OF THE TERRACE SHALL ALSO BE EXCAVATED TO AS CLOSE TO THE SIDEWALK/PATH AND CURB AS IS REASONABLE. WHILE PERFORMING THE EXCAVATION, TAKE CARE NOT TO UNDERMINE OR DAMAGE THE ADJACENT CURB OR SIDEWALK. IF DAMAGED DURING THE EXCAVATION PROCESS, THE CONTRACTOR SHALL REPLACE CURB OR SIDEWALK/PATH AT THEIR COST. ONCE THE AREA IS EXCAVATED, BACKFILL THE EXCAVATED AREA WITH REGULAR TOPSOIL AND THE SURFACE SHALL BE RESTORED WITH SEED AND EROSION MAT, ALL OF WHICH WILL BE PAID UNDER THE APPROPRIATE BID ITEMS.
23. ALL WRAPPINGS, WIRE BASKETS, BURLAP, AND OTHER MISCELLANEOUS MATERIALS SHALL BE COMPLETELY REMOVED FROM ALL SHRUB AND TREE ROOT BALLS PRIOR TO INSTALLATION.



1 SITE PLANTING PLAN
SCALE: 1" = 20'-0"

0 20' 40'
1" = 20'

NORTH

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1110 S PARK STREET
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PHONE: 608-251-3600

WISCONSIN
Abbie Mollien
LA-873
Madison
Wisconsin
LANDSCAPE ARCHITECT
6/3/2026

PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

2430 S Park Street
Madison, WI 53713

2024.22.02

DATE	ISSUANCE/REVISIONS	⚠
12/19/2025	SCHEMATIC DESIGN	1
02/02/2026	UDC INFORMATIONAL SUBMITTAL	2
03/16/2026	LAND USE APPLICATION	3
06/03/2026	UDC INITIAL / FINAL	4

SITE PLANTING PLAN

L200

PLANT SCHEDULE - PLANTING ENLARGEMENT 1

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT.	SIZE	QTY
DECIDUOUS TREES					
	AG-P	Acer ginnala 'Flame' / Flame Amur Maple SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2"Cal	1
	AX	Aesculus x bushii 'Aaron1' / Mystic Ruby™ Buckeye	B&B	2" Cal	3
	GD-P	Gleditsia triacanthos inermis 'Draves' / Street Keeper® Honey Locust SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
	GC-P	Gymnocladus dioicus 'UMNSynergy' / True North™ Kentucky Coffeetree SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
	QN	Quercus x warei 'Nadler' / Kindred Spirit® Oak	B&B	2"Cal	5
	TA	Tilia americana 'Kromm' / Sweet Street™ American Linden	B&B	2" Cal	2
	UP-P	Ulmus x 'New Horizon' / New Horizon Elm SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
ORNAMENTAL TREES					
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B & B	6' HT (MIN.) UPRIGHT MULTI-STEM	1
	CJ-P	Carpinus caroliniana 'J.N. Upright' / Firespire® American Hornbeam SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
	MA-P	Malus x 'Adirondack' / Adirondack Crabapple SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2"Cal	1
	SR	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B&B	2" Cal	4

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING	QTY
DECIDUOUS SHRUBS						
	Ap	Aronia melanocarpa 'SMNAMPEM' / Low Scape Snowfire™ Black Chokeberry	#3		42" o.c.	10
	Can	Ceanothus americanus / New Jersey Tea	#3	CONT.	36" o.c.	6
	Cs	Clethra alnifolia 'Novacleein' / Summer Sparkler™ Summersweet	#3		42" o.c.	20
	Fgb	Fothergilla gardenii 'Beaver Creek' / Beaver Creek Dwarf Fothergilla	#3	18" HT (MIN.)	36" o.c.	14
	Hps	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	#3	CONT.	48" o.c.	4
	Hkb	Hypericum kalmianum `SMHKBF` / Blues Festival® St. Johnswort	#3	CONT.	30" o.c.	6
	Hl	Hypericum x 'Deppe' / Sunny Boulevard® St. John's Wort	#3		36" o.c.	7
	Sb	Spiraea betulifolia 'Tor' / White Frost™ Birchleaf Spirea	#3	CONT.	30" o.c.	11
	Sf	Spiraea fritschiana `J.N. Select A` TM / Pink-a-licious Fritch Spirea	#2	18" HT (MIN.)	36" o.c.	10
EVERGREEN SHRUBS						
	Bg	Buxus x 'Glencoe' / Chicagoland Green® Boxwood	#3	CONT.	48" o.c.	6

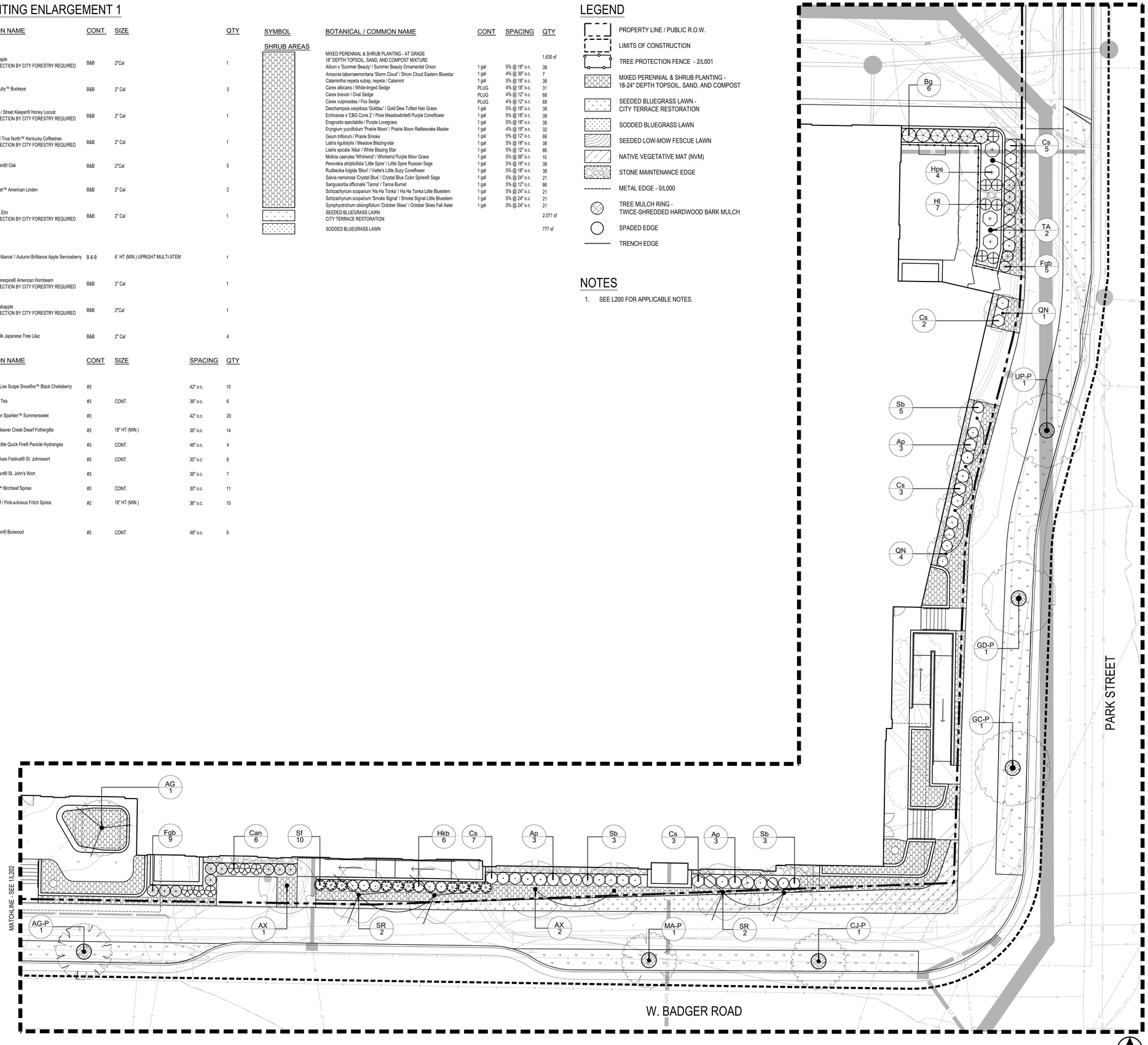
SYMBOL	BOTANICAL / COMMON NAME	CONT	SPACING	QTY
SHRUB AREAS				
	MIXED PERENNIAL & SHRUB PLANTING - AT GRADE 18" DEPTH TOPSOIL, SAND, AND COMPOST MIXTURE			1,630 sf
	Allium x 'Summer Beauty' / Summer Beauty Ornamental Onion	1 gal	5% @ 18" o.c.	38
	Amsonia tabernaemontana 'Storm Cloud' / Strom Cloud Eastern Bluestar	1 gal	4% @ 36" o.c.	7
	Calamintha nepeta subsp. nepeta / Calamint	1 gal	5% @ 18" o.c.	38
	Carex albicans / White-tinged Sedge	PLUG	4% @ 18" o.c.	31
	Carex brevior / Oval Sedge	PLUG	4% @ 12" o.c.	68
	Carex vulpinoidea / Fox Sedge	PLUG	4% @ 12" o.c.	68
	Deschampsia cespitosa 'Goldtau' / Gold Dew Tufted Hair Grass	1 gal	5% @ 18" o.c.	38
	Echinacea x 'CBG Cone 2' / Pixie Meadowbrite® Purple Coneflower	1 gal	5% @ 18" o.c.	38
	Eragrostis spectabilis / Purple Lovegrass	1 gal	5% @ 18" o.c.	38
	Eryngium yuccifolium 'Prairie Moon' / Prairie Moon Rattlesnake Master	1 gal	4% @ 18" o.c.	32
	Geum triflorum / Prairie Smoke	1 gal	5% @ 12" o.c.	86
	Liatris ligulistylis / Meadow Blazing-star	1 gal	5% @ 18" o.c.	38
	Liatris spicata 'Alba' / White Blazing Star	1 gal	5% @ 12" o.c.	86
	Molinia caerulea 'Whirlwind' / Whirlwind Purple Moor Grass	1 gal	5% @ 36" o.c.	10
	Perovskia atriplicifolia 'Little Spire' / Little Spire Russian Sage	1 gal	5% @ 18" o.c.	38
	Rudbeckia fulgida 'Blovi' / Viette's Little Suzy Coneflower	1 gal	5% @ 18" o.c.	38
	Salvia nemorosa 'Crystal Blue' / Crystal Blue Color Spires® Sage	1 gal	5% @ 24" o.c.	21
	Sanguisorba officinalis 'Tanna' / Tanna Burnet	1 gal	5% @ 12" o.c.	86
	Schizachyrium scoparium 'Ha Ha Tonka' / Ha Ha Tonka Little Bluestem	1 gal	5% @ 24" o.c.	21
	Schizachyrium scoparium 'Smoke Signal' / Smoke Signal Little Bluestem	1 gal	5% @ 24" o.c.	21
	Symphyotrichum oblongifolium 'October Skies' / October Skies Fall Aster	1 gal	5% @ 24" o.c.	21
	SEEDED BLUEGRASS LAWN CITY TERRACE RESTORATION			2,071 sf
	SODDED BLUEGRASS LAWN			777 sf

LEGEND

- PROPERTY LINE / PUBLIC R.O.W.
- LIMITS OF CONSTRUCTION
- TREE PROTECTION FENCE - 2/L001
- MIXED PERENNIAL & SHRUB PLANTING - 18-24" DEPTH TOPSOIL, SAND, AND COMPOST
- SEEDED BLUEGRASS LAWN - CITY TERRACE RESTORATION
- SODDED BLUEGRASS LAWN
- SEEDED LOW-MOW FESCUE LAWN
- NATIVE VEGETATIVE MAT (NVM)
- STONE MAINTENANCE EDGE
- METAL EDGE - 0/L000
- TREE MULCH RING - TWICE-SHREDDED HARDWOOD BARK MULCH
- SPADED EDGE
- TRENCH EDGE

NOTES

1. SEE L200 FOR APPLICABLE NOTES.



1 PLANTING ENLARGEMENT 1
SCALE: 1" = 20'-0"

0 10' 20'
1" = 10'

NORTH

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1110 S PARK STREET
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LANDSCAPE ARCHITECT
6/3/2026

PRELIMINARY
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Park Badger Redevelopment
City of Madison CDA

2430 S Park Street
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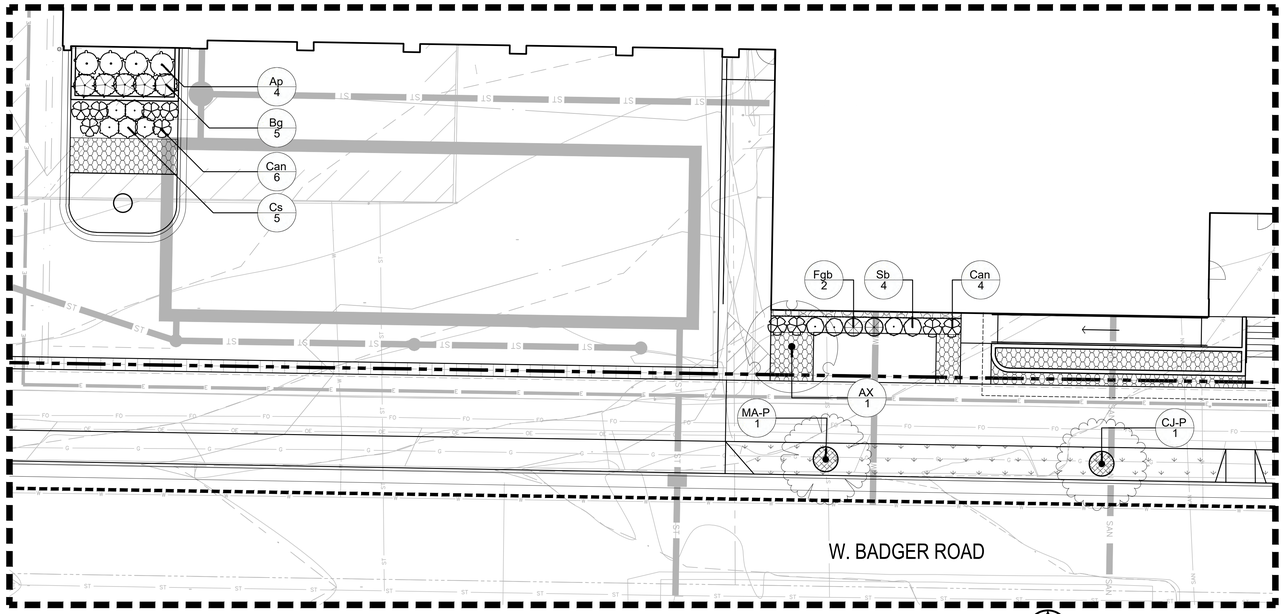
PLANTING ENLARGEMENT 1

L201



MATCHLINE - SEE 1/L201

1 PLANTING ENLARGEMENT 2
SCALE: 1" = 10'-0"

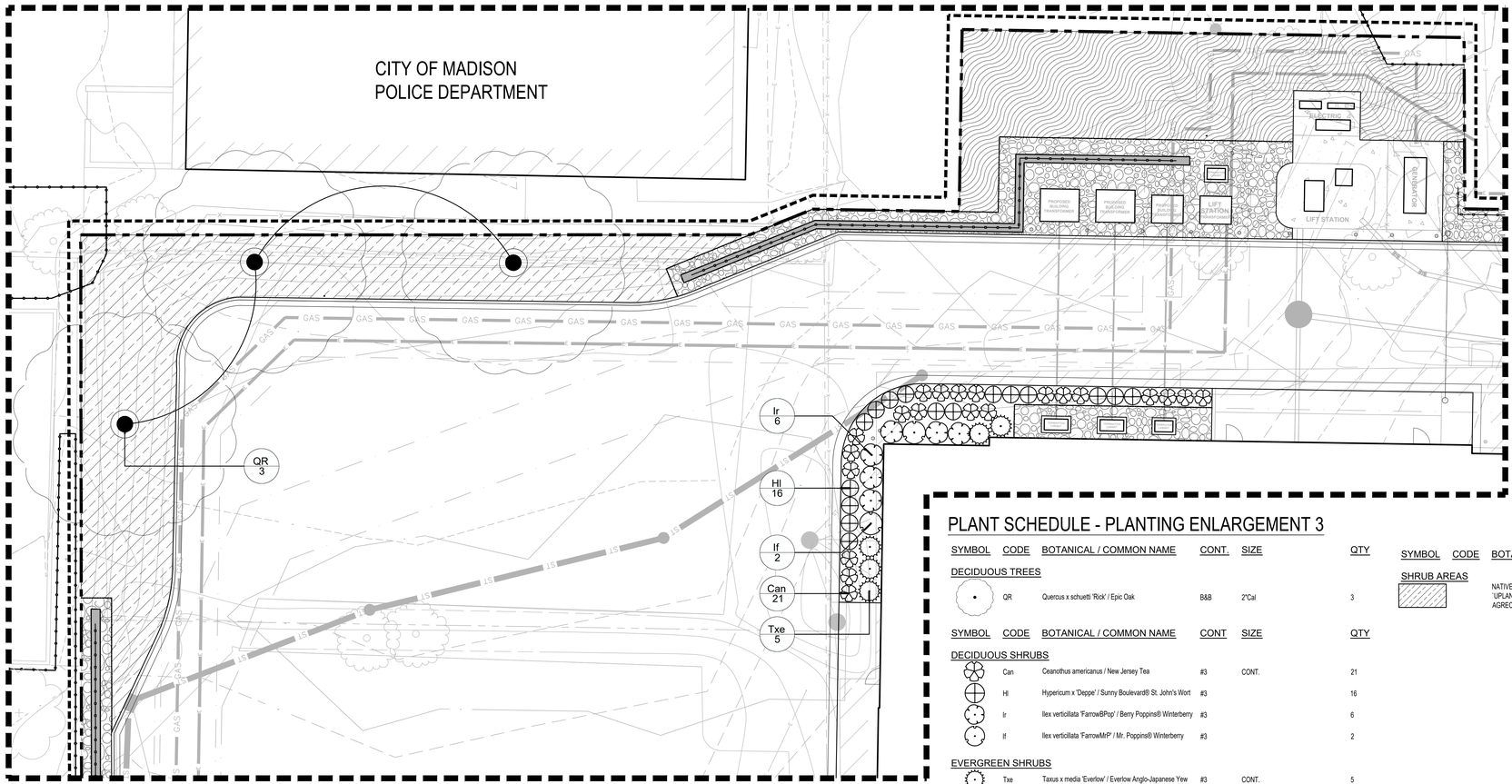
0 10' 20'
1" = 10'

NORTH

PLANT SCHEDULE - PLANTING ENLARGEMENT 2

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT.	SIZE	SPACING	QTY
DECIDUOUS TREES						
	AX	Aesculus x bushii 'Aaron1' / Mystic Ruby™ Buckeye	B&B	2" Cal		1
ORNAMENTAL TREES						
	CJ-P	Carpinus caroliniana 'J.N. Upright' / Firespire® American Hornbeam SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal		1
	MA-P	Malus x 'Adirondack' / Adirondack Crabapple SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2"Cal		1
DECIDUOUS SHRUBS						
	Ap	Aronia melanocarpa 'SMNAMPEM' / Low Scape Snowfire™ Black Chokeberry	#3		42" o.c.	4
	Can	Ceanothus americanus / New Jersey Tea	#3	CONT.	36" o.c.	10
	Cs	Clethra alnifolia 'Novacleein' / Summer Sparkler™ Summersweet	#3		42" o.c.	5
	Fgb	Fothergilla gardenii 'Beaver Creek' / Beaver Creek Dwarf Fothergilla	#3	18" HT (MIN.)	36" o.c.	2
	Sb	Spiraea betulifolia 'Tor' / White Frost™ Birchleaf Spirea	#3	CONT.	30" o.c.	4
EVERGREEN SHRUBS						
	Bg	Buxus x 'Glencoe' / Chicagoland Green® Boxwood	#3	CONT.	48" o.c.	5

SYMBOL	BOTANICAL / COMMON NAME	CONT	SPACING	SPACING	QTY
SHRUB AREAS					
	MIXED PERENNIAL & SHRUB PLANTING - AT GRADE 18" DEPTH TOPSOIL, SAND, AND COMPOST MIXTURE				401 sf
	Allium x 'Summer Beauty' / Summer Beauty Ornamental Onion	1 gal		5% @ 18" o.c.	9
	Amsonia tabernaemontana 'Storm Cloud' / Storm Cloud Eastern Bluestar	1 gal		4% @ 36" o.c.	1
	Calamintha nepeta subsp. nepeta / Calamint	1 gal		5% @ 18" o.c.	9
	Carex albicans / White-tinged Sedge	PLUG		4% @ 18" o.c.	8
	Carex brevior / Oval Sedge	PLUG		4% @ 12" o.c.	15
	Carex vulpinoidea / Fox Sedge	PLUG		4% @ 12" o.c.	15
	Deschampsia cespitosa 'Goldtau' / Gold Dew Tufted Hair Grass	1 gal		5% @ 18" o.c.	9
	Echinacea x 'CBG Cone 2' / Pixie Meadowbrite® Purple Coneflower	1 gal		5% @ 18" o.c.	9
	Eragrostis spectabilis / Purple Lovegrass	1 gal		5% @ 18" o.c.	9
	Eryngium yuccifolium 'Prairie Moon' / Prairie Moon Rattlesnake Master	1 gal		4% @ 18" o.c.	8
	Geum triflorum / Prairie Smoke	1 gal		5% @ 12" o.c.	21
	Liatris ligulistylis / Meadow Blazing-star	1 gal		5% @ 18" o.c.	9
	Liatris spicata 'Alba' / White Blazing Star	1 gal		5% @ 12" o.c.	21
	Molinia caerulea 'Whirlwind' / Whirlwind Purple Moor Grass	1 gal		5% @ 36" o.c.	2
	Perovskia atriplicifolia 'Little Spire' / Little Spire Russian Sage	1 gal		5% @ 18" o.c.	9
	Rudbeckia fulgida 'Blovi' / Viette's Little Suzy Coneflower	1 gal		5% @ 18" o.c.	9
	Salvia nemorosa 'Crystal Blue' / Crystal Blue Color Spires® Sage	1 gal		5% @ 24" o.c.	5
	Sanguisorba officinalis 'Tanna' / Tanna Burnet	1 gal		5% @ 12" o.c.	21
	Schizachyrium scoparium 'Ha Ha Tonka' / Ha Ha Tonka Little Bluestem	1 gal		5% @ 24" o.c.	5
	Schizachyrium scoparium 'Smoke Signal' / Smoke Signal Little Bluestem	1 gal		5% @ 24" o.c.	5
	Symphyotrichum oblongifolium 'October Skies' / October Skies Fall Aster	1 gal		5% @ 24" o.c.	5



2 PLANTING ENLARGEMENT 3
SCALE: 1" = 10'-0"

0 10' 20'
1" = 10'

NORTH

PLANT SCHEDULE - PLANTING ENLARGEMENT 3

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT.	SIZE	QTY
DECIDUOUS TREES					
	QR	Quercus x schuettii 'Rick' / Epic Oak	B&B	2"Cal	3

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	QTY
DECIDUOUS SHRUBS					
	Can	Ceanothus americanus / New Jersey Tea	#3	CONT.	21
	Hl	Hypericum x 'Deppe' / Sunny Boulevard® St. John's Wort	#3		16
	Ir	Ilex verticillata 'FarrowBPop' / Berry Poppins® Winterberry	#3		6
	If	Ilex verticillata 'FarrowMrP' / Mr. Poppins® Winterberry	#3		2
EVERGREEN SHRUBS					
	Txe	Taxus x media 'Everlow' / Everlow Anglo-Japanese Yew	#3	CONT.	5

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SPACING	QTY
SHRUB AREAS					
		NATIVE VEGETATIVE MAT (NVM) 'UPLAND MEADOW' MIX - AVAILABLE FROM AGRECOL			2,278 sf

LEGEND

- PROPERTY LINE / PUBLIC R.O.W.
- LIMITS OF CONSTRUCTION
- TREE PROTECTION FENCE - 2/L001
- MIXED PERENNIAL & SHRUB PLANTING - 18-24" DEPTH TOPSOIL, SAND, AND COMPOST
- SEEDED BLUEGRASS LAWN - CITY TERRACE RESTORATION
- SODDED BLUEGRASS LAWN
- SEEDED LOW-MOW FESCUE LAWN
- NATIVE VEGETATIVE MAT (NVM)
- STONE MAINTENANCE EDGE
- METAL EDGE - 0/L000
- TREE MULCH RING - TWICE-SHREDDED HARDWOOD BARK MULCH
- SPADED EDGE
- TRENCH EDGE

NOTES

1. SEE L200 FOR APPLICABLE NOTES.

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06/03/2026	UDC INITIAL / FINAL	4

PLANTING ENLARGEMENT 2 & 3

L202

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PLANT SCHEDULE - OVERALL SITE

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT.	SIZE	QTY
DECIDUOUS TREES					
	AG-P	Acer ginnala 'Flame' / Flame Amur Maple SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2"Cal	1
	AX	Aesculus x bushii 'Aaron1' / Mystic Ruby™ Buckeye	B&B	2" Cal	4
	GD-P	Gleditsia triacanthos inermis 'Draves' / Street Keeper® Honey Locust SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
	GC-P	Gymnocladus dioicus 'UMNSynergy' / True North™ Kentucky Coffeetree SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
	QR	Quercus x schuettii 'Rick' / Epic Oak	B&B	2"Cal	3
	QN	Quercus x warei 'Nadler' / Kindred Spirit® Oak	B&B	2"Cal	5
	TA	Tilia americana 'Kromm' / Sweet Street™ American Linden	B&B	2" Cal	2
	UP-P	Ulmus x 'New Horizon' / New Horizon Elm SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	1
ORNAMENTAL TREES					
	AG	Amelanchier x grandiflora 'Autumn Brilliance' / Autumn Brilliance Apple Serviceberry	B & B	6' HT (MIN.) UPRIGHT MULTI-STEM	1
	CJ-P	Carpinus caroliniana 'J.N. Upright' / Firespire® American Hornbeam SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2" Cal	2
	MA-P	Malus x 'Adirondack' / Adirondack Crabapple SINGLE, STRAIGHT LEADER, INSPECTION BY CITY FORESTRY REQUIRED	B&B	2"Cal	2
	SR	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B&B	2" Cal	4

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING	QTY
DECIDUOUS SHRUBS						
	Ap	Aronia melanocarpa 'SMNAMPEM' / Low Scape Snowfire™ Black Chokeberry	#3		42" o.c.	14
	Can	Ceanothus americanus / New Jersey Tea	#3	CONT.	36" o.c.	37
	Cs	Clethra alnifolia 'Novaclein' / Summer Sparkler™ Summersweet	#3		42" o.c.	25
	Fgb	Fothergilla gardenii 'Beaver Creek' / Beaver Creek Dwarf Fothergilla	#3	18" HT (MIN.)	36" o.c.	16
	Hps	Hydrangea paniculata 'SMHPLQF' / Little Quick Fire® Panicle Hydrangea	#3	CONT.	48" o.c.	4
	Hkb	Hypericum kalmianum 'SMHKBF' / Blues Festival® St. Johnswort	#3	CONT.	30" o.c.	6
	Hl	Hypericum x 'Deppe' / Sunny Boulevard® St. John's Wort	#3		36" o.c.	23
	Ir	Ilex verticillata 'FarrowBPop' / Berry Poppins® Winterberry	#3		48" o.c.	6
	If	Ilex verticillata 'FarrowMP' / Mr. Poppins® Winterberry	#3		48" o.c.	2
	Sb	Spiraea betulifolia 'Tor' / White Frost™ Birchleaf Spirea	#3	CONT.	30" o.c.	15
	Sf	Spiraea fritschiana 'J.N. Select A' TM / Pink-a-licious Fritch Spirea	#2	18" HT (MIN.)	36" o.c.	10
EVERGREEN SHRUBS						
	Bg	Buxus x 'Glencoe' / Chicagoland Green® Boxwood	#3	CONT.	48" o.c.	11
	Txe	Taxus x media 'Everlow' / Everlow Anglo-Japanese Yew	#3	CONT.	48" o.c.	5

SYMBOL	BOTANICAL / COMMON NAME	CONT	SPACING	SPACING	QTY
SHRUB AREAS					
	MIXED PERENNIAL & SHRUB PLANTING - AT GRADE 18" DEPTH TOPSOIL, SAND, AND COMPOST MIXTURE				9,339 sf
	Allium x 'Summer Beauty' / Summer Beauty Ornamental Onion	1 gal		5% @ 18" o.c.	213
	Amsonia tabernaemontana 'Storm Cloud' / Storm Cloud Eastern Bluestar	1 gal		4% @ 36" o.c.	38
	Calamintha nepeta subsp. nepeta / Calamint	1 gal		5% @ 18" o.c.	213
	Carex albicans / White-tinged Sedge	PLUG		4% @ 18" o.c.	175
	Carex brevior / Oval Sedge	PLUG		4% @ 12" o.c.	385
	Carex vulpinoidea / Fox Sedge	PLUG		4% @ 12" o.c.	385
	Deschampsia cespitosa 'Goldtau' / Gold Dew Tufted Hair Grass	1 gal		5% @ 18" o.c.	213
	Echinacea x 'CBG Cone 2' / Pixie Meadowbrite® Purple Coneflower	1 gal		5% @ 18" o.c.	213
	Eragrostis spectabilis / Purple Lovegrass	1 gal		5% @ 18" o.c.	213
	Eryngium yuccifolium 'Prairie Moon' / Prairie Moon Rattlesnake Master	1 gal		4% @ 18" o.c.	176
	Geum triflorum / Prairie Smoke	1 gal		5% @ 12" o.c.	487
	Liatris ligulistylis / Meadow Blazing-star	1 gal		5% @ 18" o.c.	213
	Liatris spicata 'Alba' / White Blazing Star	1 gal		5% @ 12" o.c.	487
	Molinia caerulea 'Whirlwind' / Whirlwind Purple Moor Grass	1 gal		5% @ 36" o.c.	55
	Perovskia atriplicifolia 'Little Spire' / Little Spire Russian Sage	1 gal		5% @ 18" o.c.	213
	Rudbeckia fulgida 'Blovl' / Viette's Little Suzy Coneflower	1 gal		5% @ 18" o.c.	213
	Salvia nemorosa 'Crystal Blue' / Crystal Blue Color Spires® Sage	1 gal		5% @ 24" o.c.	119
	Sanguisorba officinalis 'Tanna' / Tanna Burnet	1 gal		5% @ 12" o.c.	487
	Schizachyrium scoparium 'Ha Ha Tonka' / Ha Ha Tonka Little Bluestem	1 gal		5% @ 24" o.c.	119
	Schizachyrium scoparium 'Smoke Signal' / Smoke Signal Little Bluestem	1 gal		5% @ 24" o.c.	119
	Symphyotrichum oblongifolium 'October Skies' / October Skies Fall Aster	1 gal		5% @ 24" o.c.	119
	SEEDED BLUEGRASS LAWN CITY TERRACE RESTORATION				2,760 sf
	SODDED BLUEGRASS LAWN				1,462 sf
	SEEDED LOW-MOW FESCUE LAWN				2,085 sf
	NATIVE VEGETATIVE MAT (NVM) 'UPLAND MEADOW' MIX - AVAILABLE FROM AGRECOL				2,278 sf

LANDSCAPE WORKSHEET

City of Madison, WI Landscape Worksheet

18-May-26

Park Badger Redevelpment - City of Madison CDA

Developed Lots	SF	LANDSCAPE POINTS REQUIRED
Total Existing Developed Area	52,420	
5 pts/300 SF for 5 acres	217,800	3,630
1 pts/100 SF for >5 acres	(165,380)	(1,654)
	Landscape Points Required	**1976**

Frontage - S Park St	LF	*Overstory Trees Required	Shrubs Required
Total LF of Street Frontage Between Bldg./Parking & street	202	7	34

1 Overstory Deciduous Tree* & 5 Shrubs for each 30 lineal feet of Lot Frontage.
[*2 Ornamental Trees or 2 Evergreen Trees may be used in place of 1 Overstory Deciduous Tree].

Element	Point Value	Quantity Proposed	Quantity Existing	Points Achieved
Overstory Deciduous Tree **	35	7		245
Ex. Significant Specimen Tree	0			0
Tall Evergreen Tree	35			0
Ornamental Tree	15			0
Upright Evergreen Shrub	10			0
Shrub, Deciduous	3	35		105
Shrub, Evergreen	4	6		24
Ornamental Grass/Perennial	2	453		906
		Development Frontage Total		**1280**

Frontage - Badger Rd	LF	*Overstory Trees Required	Shrubs Required
Total LF of Street Frontage Between Bldg./Parking & street	311	10	52

1 Overstory Deciduous Tree* & 5 Shrubs for each 30 lineal feet of Lot Frontage.
[*2 Ornamental Trees or 2 Evergreen Trees may be used in place of 1 Overstory Deciduous Tree].

Element	Point Value	Quantity Proposed	Quantity Existing	Points Achieved
Overstory Deciduous Tree **	35	6		210
Ex. Significant Specimen Tree	0			0
Tall Evergreen Tree	35			0
Ornamental Tree	15	3		45
Upright Evergreen Shrub	10			0
Shrub, Deciduous	3	78		234
Shrub, Evergreen	4	5		20
Ornamental Grass/Perennial	2	613		1226
		Development Frontage Total		**1735**

General Site, Foundation, Screening

Element	Point Value	Quantity Proposed	Quantity Existing	Points Achieved
Overstory Deciduous Tree	34	3		102
Tall Evergreen Tree	35			0
Ornamental Tree	15			0
Upright Evergreen Shrub	10			0
Shrub, Deciduous	3	45		135
Shrub, Evergreen	4	5		20
Ornamental Grass/Perennial	2			0
Ornamental/Decorative Fence or Wall (4 pts/10 LF)	4			0
		Foundation Plantings Total		**257**

TOTAL LANDSCAPE POINTS PROVIDED	3272

NOTE: * In cases where development frontage landscaping cannot be provided due to site constraints, the zoning administrator may waive the requirement or substitute alternative screening methods for the required landscaping.

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saiki DESIGN
1110 S PARK STREET
MADISON, WI 53715
PHONE: 608-251-3600

WISCONSIN
Abbie Mollien
LA-673
Madison
Wisconsin
LANDSCAPE ARCHITECT
6/3/2026

PRELIMINARY
NOT FOR CONSTRUCTION

Park Badger Redevelopment
City of Madison CDA

2430 S Park Street
Madison, WI 53713

2024.22.02

DATE	ISSUANCE/REVISIONS	
12/19/2025	SCHEMATIC DESIGN	1
02/02/2026	UDC INFORMATIONAL SUBMITTAL	2
03/16/2026	LAND USE APPLICATION	3
06/03/2026	UDC INITIAL / FINAL	4

OVERALL SITE PLANT SCHEDULE & LANDSCAPE WORKSHEET

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VIEW LOOKING NORTH FROM S. PARK ST

VIEW LOOKING NORTHWEST FROM THE INTERSECTION OF S. PARK ST AND W. BADGER RD

VIEW LOOKING WEST FROM THE INTERSECTION OF S. PARK ST AND W. BADGER RD

VIEW LOOKING WEST ON W. BADGER RD

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Park Badger Redevelopment
City of Madison CDA

812 W Badger Road
Madison, WI 53713

2024.22.02

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CONTEXTUAL SITE INFORMATION

A-1

5/18/2026 10:17:53 AM

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*FOR REFERENCE ONLY

1 A-2 ARCHITECTURAL SITE PLAN
1" = 20'-0"

NORTH

0' 8' 16' 32'

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812 W Badger Road
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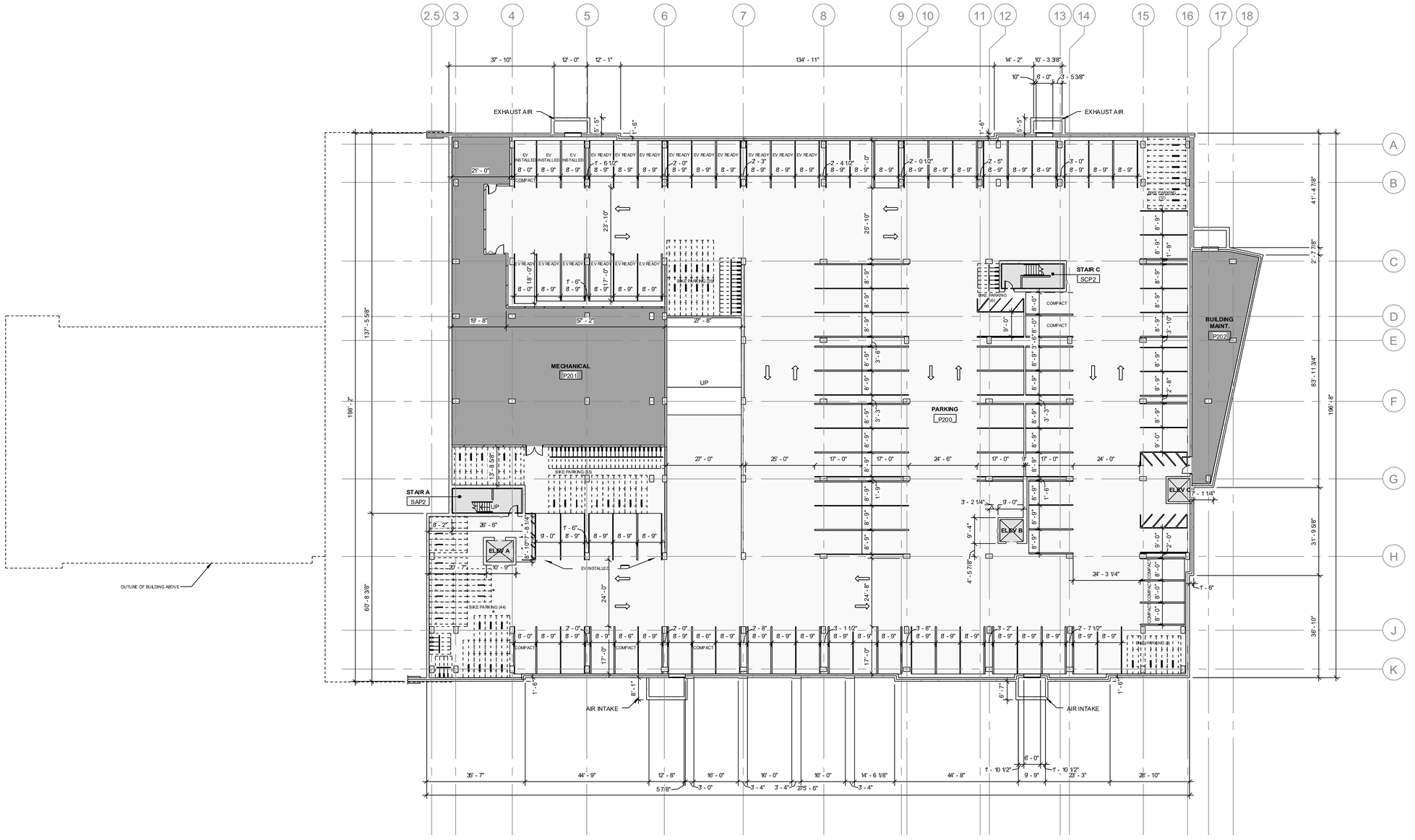
ARCHITECTURAL SITE PLAN

A-2


2.5
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11
12
13
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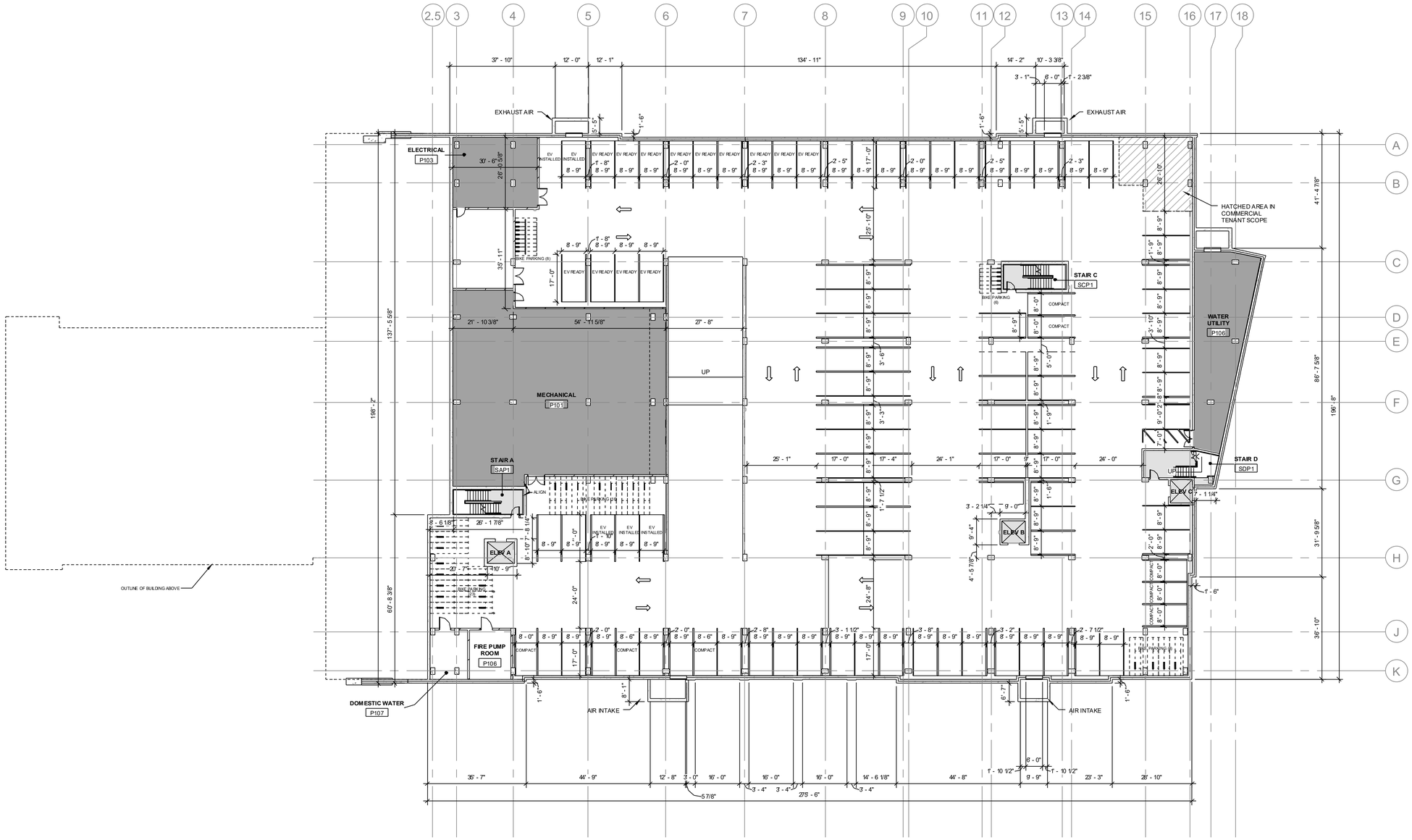
16
17
18
A
B
C
D
E
F
G
H
J
K
37' - 10"
12' - 0"
12' - 1"
134' - 11"
14' - 2"
10' - 3 3/8"
10"
8' - 0"
3' - 5 3/8"
EXHAUST AIR
EXHAUST AIR
5' - 5"
1' - 6"
1' - 6"
5' - 5"
EV INSTALLED
EV READY
8' - 0"
8' - 9"
21' - 0"
COMPACT
2' - 0"
2' - 3"
2' - 4 1/2"
2' - 0 1/2"
2' - 5"
3' - 0"
1' - 6 1/2"
23' - 10"
25' - 10"
EV READY
8' - 9"
8' - 6"
1' - 6"
8' - 0"
8' - 9"
8' - 9"
8' - 9



1 / A-4 PARKING LEVEL 1 - OVERALL

1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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City of Madison CDA

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Madison, WI 53713

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PARKING LEVEL 1 - OVERALL

A-4

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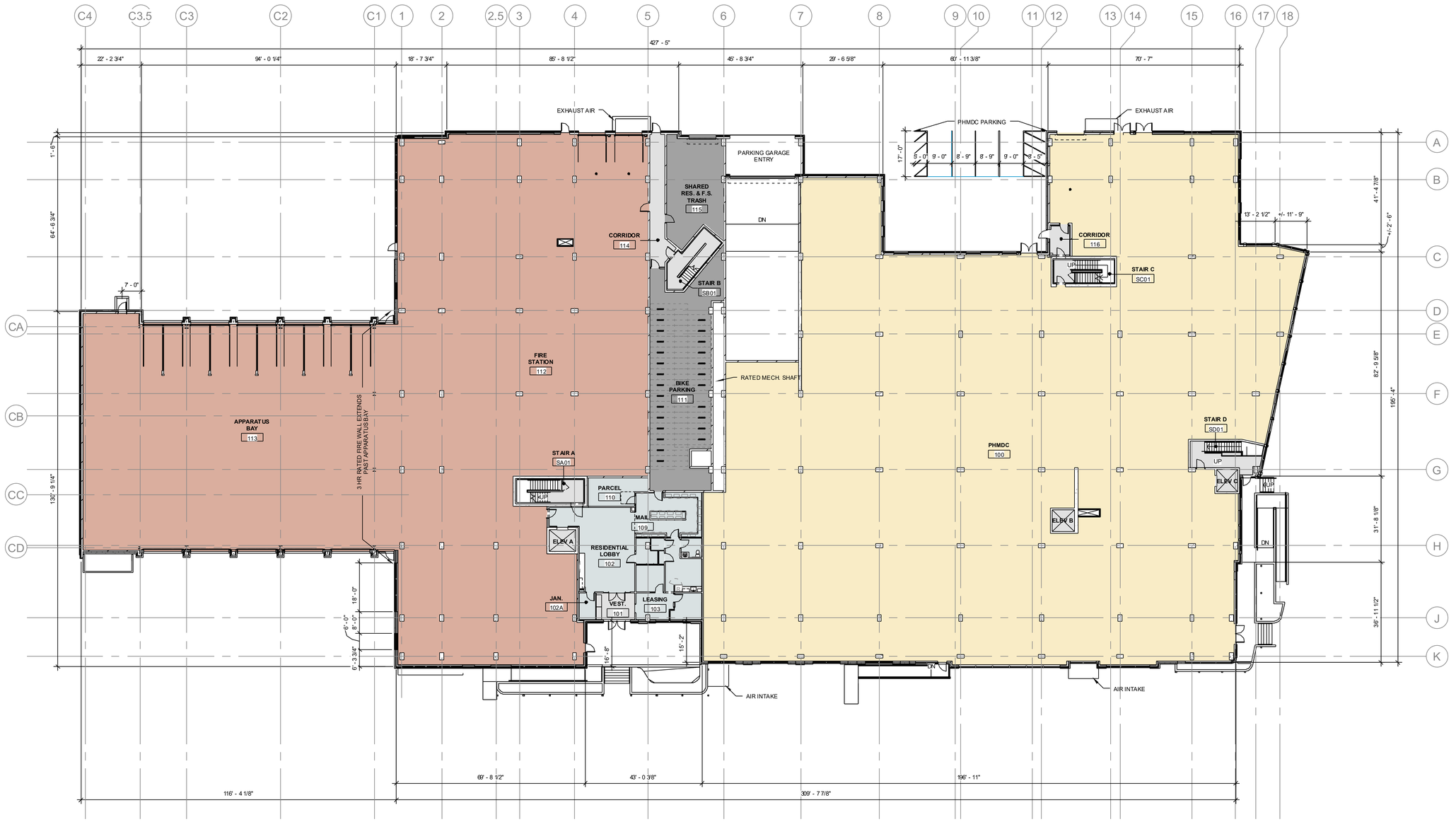

1 / A-5 FIRST FLOOR PLAN - OVERALL

1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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Park Badger Redevelopment
City of Madison CDA

812 W Badger Road
Madison, WI 53713

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FIRST FLOOR PLAN - OVERALL

A-5

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1 A-6 SECOND FLOOR PLAN - OVERALL

1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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City of Madison CDA

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Madison, WI 53713

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SECOND FLOOR PLAN - OVERALL

A-6

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1 / A-7 THIRD FLOOR PLAN - OVERALL
1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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City of Madison CDA

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Madison, WI 53713

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THIRD FLOOR PLAN - OVERALL

A-7

5/18/2026 10:17:59 AM

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1 / A-8 FOURTH FLOOR PLAN - OVERALL

1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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City of Madison CDA

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Madison, WI 53713

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FOURTH FLOOR PLAN - OVERALL

A-8

5/18/2026 10:18:00 AM

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1 A-9 FIFTH FLOOR PLAN - OVERALL
1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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FIFTH FLOOR PLAN - OVERALL

A-9

1 A-10 SIXTH FLOOR PLAN - OVERALL

1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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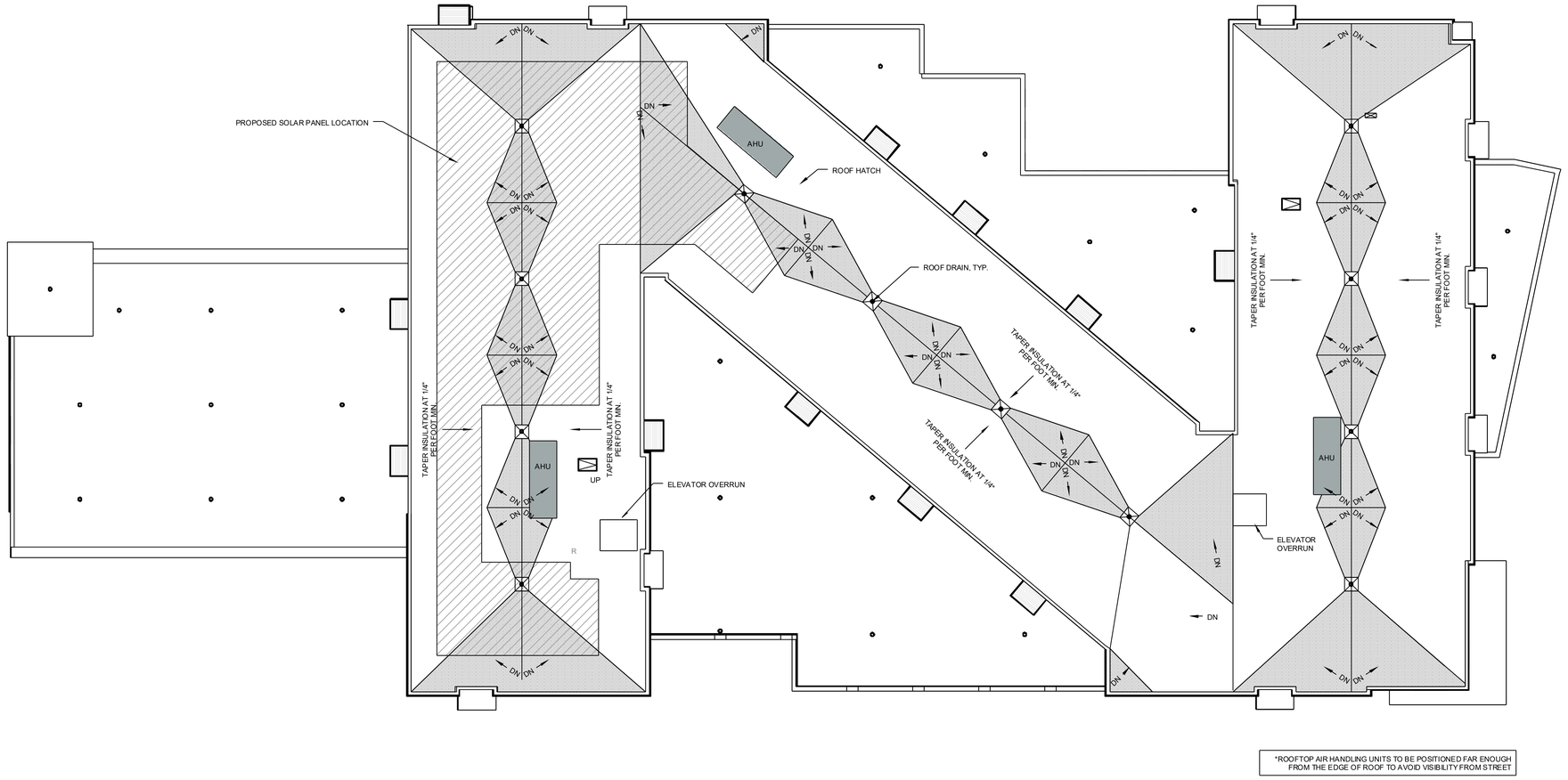
SIXTH FLOOR PLAN - OVERALL

A-10



*ROOFTOP AIR HANDLING UNITS TO BE POSITIONED FAR ENOUGH FROM THE EDGE OF ROOF TO AVOID VISIBILITY FROM STREET

1 A-11 ROOF PLAN - OVERALL
1/16" = 1'-0"

0' 8' 16' 32'

NORTH

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ROOF PLAN - OVERALL

A-11

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1 A-12 NORTH ELEVATION
1/16" = 1'-0"

2 A-12 EAST ELEVATION
1/16" = 1'-0"

3 A-12 SOUTH ELEVATION
1/16" = 1'-0"

KEYNOTES	
3.01	BRICK VENEER TYPE 1: RUNNING BOND
3.02	BRICK VENEER TYPE 1: EVERY OTHER ROW STEPS OUT 3/4"
3.03	BRICK VENEER TYPE 1: ANGLED 30 DEGREES
3.05	BRICK VENEER TYPE 1: STEP TOP AND BOTTOM SOLIDER COURSE 1/2"
3.06	NORMAN BRICK VENEER TYPE 1
3.07	PREMANUFACTURED ALUMINUM AND GLASS SECTIONAL DOOR
3.08	PREFINISHED METAL PANEL TYPE 1
3.09	PREFINISHED METAL PANEL TYPE 2A
3.10	PREFINISHED METAL PANEL TYPE 2B
3.11	PREFINISHED METAL PANEL TYPE 2C
3.12	PREFINISHED ALUMINUM COMPOSITE METAL PANEL
3.13	PREFINISHED ACM WOOD GRAIN PANEL
3.15	PREFINISHED METAL LOUVERS
3.16	PREFINISHED METAL COPING
3.20	CAST STONE SILL
3.21	CAST STONE WALL BASE
3.22	CAST STONE
3.23	ANODIZED ALUMINUM STOREFRONT SYSTEM, GLAZING TO RECEIVE CUSTOM CERAMIC FRIT COATING ON #2 SURFACE
3.24	PREMANUFACTURED PATIO DOOR
3.25	PREMANUFACTURED SIDE OPENING GARAGE DOOR
3.26	PREFINISHED BREAK METAL BAND
3.27	PREMANUFACTURED HIGH SPEED GARAGE DOOR
3.28	METAL GUARDRAIL
3.29	HOLLOW METAL DOOR AND FRAME
3.30	PREMANUFACTURED COILING GARAGE DOOR
3.32	PREFABRICATED HUNG BALCONY
3.33	STEEL FRAMED COVERED PORCH
3.34	ROOF ASSEMBLY WITH PREFINISHED METAL FASCIA
3.35	PREMANUFACTURED SECTIONAL OVERHEAD GARAGE DOOR
3.36	POTENTIAL SIGNAGE LOCATION
3.37	FIBER CEMENT PANEL
3.38	STEEL TUBE COLUMN
3.39	STEEL TUBE BEAM W/ END CAP

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EXTERIOR ELEVATIONS

A-12

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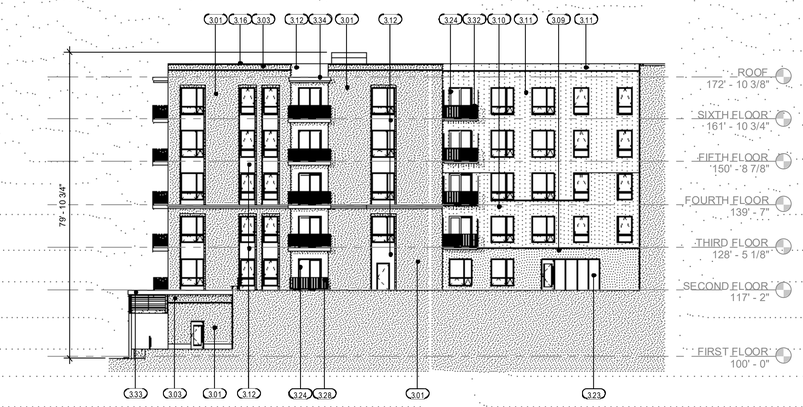
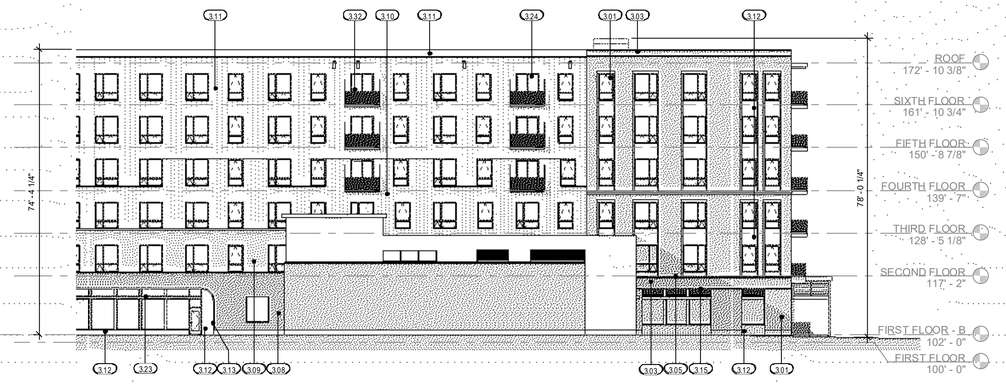


1 A-13 EAST ELEVATION

1/16" = 1'-0"



2 A-13 WEST ELEVATION

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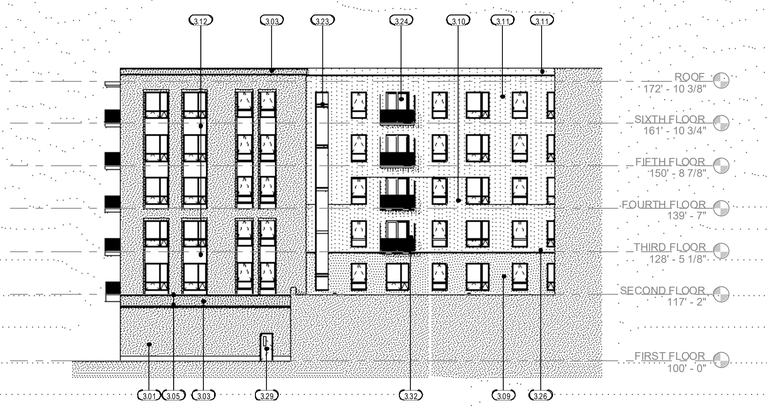
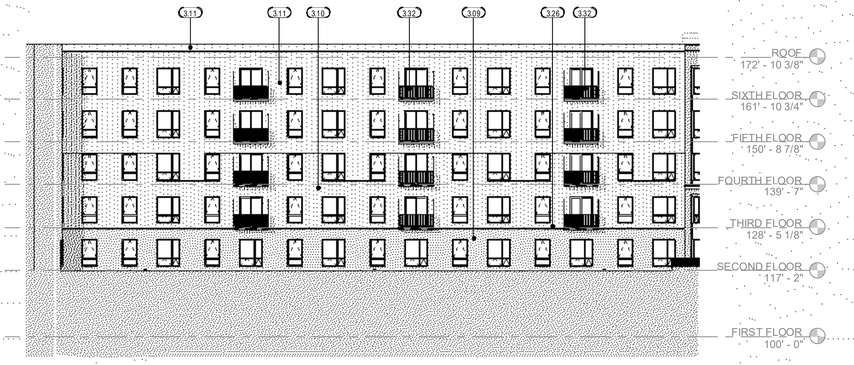


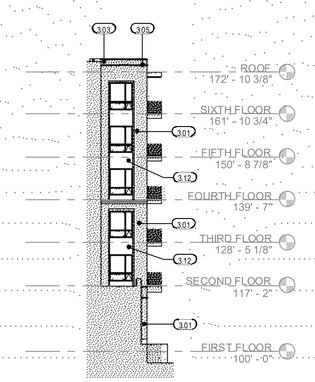
3 A-13 WEST ELEVATION

1/16" = 1'-0"



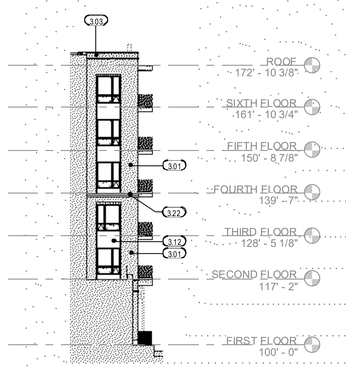
4 A-13 SOUTH CENTRAL WING ELEVATION

1/16" = 1'-0"



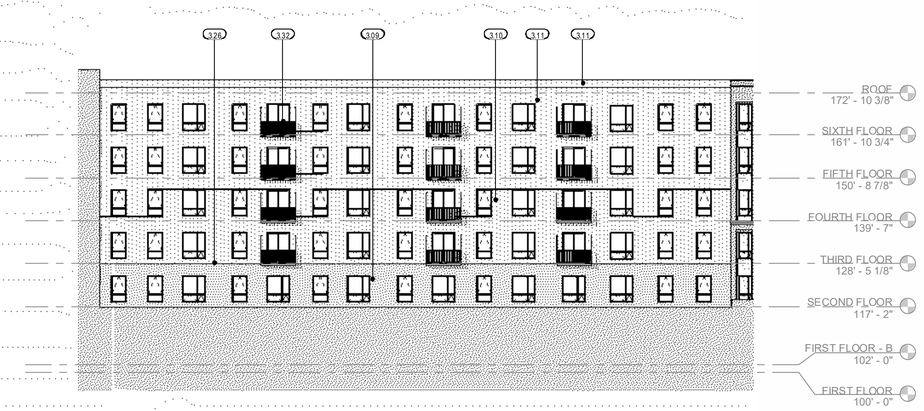
5 A-13 WEST ELEVATION

1/16" = 1'-0"



6 A-13 EAST ELEVATION

1/16" = 1'-0"



7 A-13 NORTH CENTRAL WING ELEVATION

1/16" = 1'-0"

KEYNOTES	
3.01	BRICK VENEER TYPE 1: RUNNING BOND
3.03	BRICK VENEER TYPE 1: ANGLED 30 DEGREES
3.05	BRICK VENEER TYPE 1: STEP TOP AND BOTTOM SOLIDER COURSE 1/2"
3.08	PREFINISHED METAL PANEL TYPE 1
3.09	PREFINISHED METAL PANEL TYPE 2A
3.10	PREFINISHED METAL PANEL TYPE 2B
3.11	PREFINISHED METAL PANEL TYPE 2C
3.12	PREFINISHED ALUMINUM COMPOSITE METAL PANEL
3.13	PREFINISHED ACM WOOD GRAIN PANEL
3.15	PREFINISHED METAL LOUVERS
3.16	PREFINISHED METAL COPING
3.22	CAST STONE
3.23	ANODIZED ALUMINUM STOREFRONT SYSTEM. GLAZING TO RECEIVE CUSTOM CERAMIC FRIT COATING ON #2 SURFACE
3.24	PREMANUFACTURED PATIO DOOR
3.26	PREFINISHED BREAK METAL BAND
3.28	METAL GUARDRAIL
3.29	HOLLOW METAL DOOR AND FRAME
3.32	PREFABRICATED HUNG BALCONY
3.33	STEEL FRAMED COVERED PORCH
3.34	ROOF ASSEMBLY WITH PREFINISHED METAL FASCIA

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Park Badger Redevelopment
City of Madison CDA

812 W Badger Road
Madison, WI 53713

2024.22.02

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EXTERIOR ELEVATIONS

A-13

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1 A-14 NORTH ELEVATION

1/16" = 1'-0"

2 A-14 EAST ELEVATION

1/16" = 1'-0"

3 A-14 SOUTH ELEVATION

1/16" = 1'-0"

KEYNOTES	
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3.37	FIBER CEMENT PANEL
3.38	STEEL TUBE COLUMN
3.39	STEEL TUBE BEAM W/ END CAP

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City of Madison CDA

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COLORED EXTERIOR ELEVATIONS

A-14

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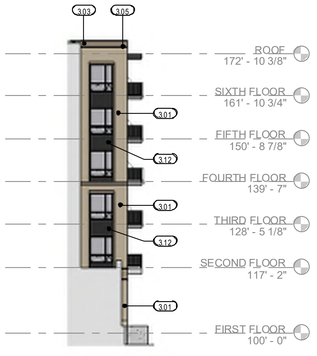
1 A-15 EAST ELEVATION
1/16" = 1'-0"

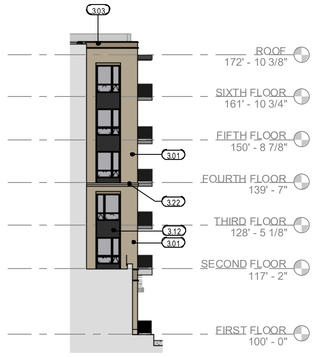
3 A-15 WEST ELEVATION
1/16" = 1'-0"

4 A-15 WEST ELEVATION
1/16" = 1'-0"

6 A-15 SOUTH CENTRAL WING ELEVATION
1/16" = 1'-0"



5 A-15 WEST ELEVATION
1/16" = 1'-0"



2 A-15 EAST ELEVATION
1/16" = 1'-0"

7 A-15 NORTH CENTRAL WING ELEVATION
1/16" = 1'-0"

KEYNOTES	
3.01	BRICK VENEER TYPE 1: RUNNING BOND
3.03	BRICK VENEER TYPE 1: ANGLED 30 DEGREES
3.05	BRICK VENEER TYPE 1: STEP TOP AND BOTTOM SOLIDER COURSE 1/2"
3.08	PREFINISHED METAL PANEL TYPE 1
3.09	PREFINISHED METAL PANEL TYPE 2A
3.10	PREFINISHED METAL PANEL TYPE 2B
3.11	PREFINISHED METAL PANEL TYPE 2C
3.12	PREFINISHED ALUMINUM COMPOSITE METAL PANEL
3.13	PREFINISHED ACM WOOD GRAIN PANEL
3.15	PREFINISHED METAL LOUVERS
3.16	PREFINISHED METAL COPING
3.22	CAST STONE
3.23	ANODIZED ALUMINUM STOREFRONT SYSTEM. GLAZING TO RECEIVE CUSTOM CERAMIC FRIT COATING ON #2 SURFACE
3.24	PREMANUFACTURED PATIO DOOR
3.26	PREFINISHED BREAK METAL BAND
3.28	METAL GUARDRAIL
3.29	HOLLOW METAL DOOR AND FRAME
3.32	PREFABRICATED HUNG BALCONY
3.33	STEEL FRAMED COVERED PORCH
3.34	ROOF ASSEMBLY WITH PREFINISHED METAL FASCIA

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812 W Badger Road
Madison, WI 53713

2024.22.02

DATE	ISSUANCE/REVISIONS	#
12/19/2025	SCHEMATIC DESIGN	1
02/02/2026	UDC INFORMATIONAL	2
03/16/2026	LAND USE APPLICATION	3
06/03/2026	UDC INITIAL/FINAL	5

COLORED EXTERIOR ELEVATIONS

A-15

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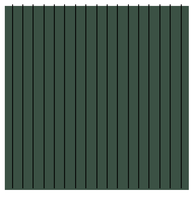
1. Equitone - Linea Black
*or similar

2. Pac Clad - Composite Metal Panel
*or similar

3. Pac Clad - Aluminum Metal Panel (16" spacing)
*or similar

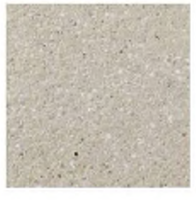
4. Pac Clad - Aluminum Metal Panel (12" spacing)
*or similar



5. Pac Clad - Aluminum Metal Panel (Box Rib 1 - 1 3/8" spacing)
*or similar

6. NOT USED

7. Belden - Brick Veneer
*or similar



8. Cast Stone
*or similar

9. Concrete Planter - Sawtooth Profile
*or similar

10. Pac Clad - Aluminum Accent Storefront Mullions - Wood Grain
*or similar

11. Intus - Aluminum Window Frames
*or similar

12. Kawneer - Aluminum Storefront Mullions
*or similar

**See appendix 1 for Pac Clad color chart

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EXTERIOR BUILDING MATERIALS

A-16

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VIEW LOOKING SOUTHWEST FROM S. PARK ST

VIEW LOOKING NORTHWEST FROM THE INTERSECTION OF S. PARK ST AND W. BADGER RD

VIEW LOOKING AT MAIN COMMERICAL ENTRY AT INTERSECTION OF S. PARK ST AND W. BADGER RD

VIEW LOOKING NORTHEAST FROM W. BADGER RD

VIEW LOOKING AT MAIN RESIDENTIAL ENTRY FROM W. BADGER RD

VIEW LOOKING SOUTHEAST FROM REAR APPARATUS BAY

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RENDERINGS

A-17

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VIEW LOOKING NORTHEAST AT APPARATUS BAY

VIEW LOOKING AT APPARATUS BAY FROM W BADGER RD

DUSK VIEW LOOKING NORTHEAST AT APPARATUS BAY

VIEW LOOKING SOUTHWEST FROM S PARK ST

DUSK VIEW LOOKING COMMERCIAL TENANT ENTRY

VIEW LOOKING AT PARAPET DETAILING

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RENDERINGS

A-18

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Drawing Index

LD100- Cover Sheet
LD101A - Part Site Plan - Lighting
LD101B - Part Site Plan - Lighting
LD102 - Roof terrace Plan - Lighting
LD103 - Luminaire Schedule

GENERAL NOTES

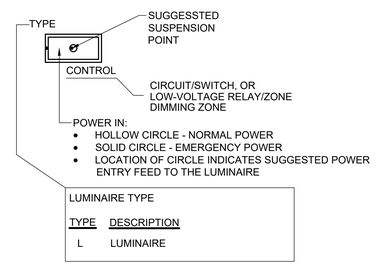
1. ALL THE SHEETS IN THIS DESIGN DEVELOPMENT MANUAL, UNLESS OTHERWISE MENTIONED, TO BE PLOTTED TO 30" X 42" SHEET
2. REFER TO LIGHTING LEGEND ON THE SIDE FOR THE FIXTURE SYMBOL & ABBREVIATION INFORMATION.
3. REFER TO SHEET LD103 FOR LUMINAIRE SCHEDULE
4. ALL DIMENSIONS ARE IN INCHES & FOOT UNLESS OTHERWISE SPECIFIED.
5. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DO NOT SCALE THE DRAWING.
6. ALL THE REFERENCED HEIGHTS ARE FROM FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE, UNLESS OTHERWISE NOTED.
7. FOR ALL THE LINEAR LUMINAIRES, EXACT LENGTH TO BE DERIVED FROM THE ARCHITECTURAL CONDITIONS WITHIN WHICH THEY ARE INSTALLED.
8. PROVISIONS FOR THE REMOTE DRIVER SHALL BE MADE IN THE NEAREST ACCESSIBLE LOCATION FOR EASY MAINTENANCE. DISTANCE OF THE DRIVER FROM THE LUMINAIRE SHALL BE MAINTAINED AS PER MANUFACTURER'S RECOMMENDATIONS
9. RELEVANT SERVICES DRAWINGS ARE TO BE READ SIMULTANEOUSLY AND PROVISION OF CUTOUTS / SLEEVES TO BE PROVIDED AS REQUIRED.
10. ALL MANUFACTURERS CONTAINED WITHIN THIS MANUAL ARE PRESENTED TO DEFINE DESIGN DIRECTION AND PERFORMANCE. ALL FINAL SELECTIONS OF MANUFACTURERS SHALL BE AS SPECIFIED OR EQUAL.

OTHER SYMBOLS

NOTE DESIGNATION

1 CONTROL NOTE

LIGHTING LEGEND



WALL SURFACE
MOUNTING LOCATION: WALL

BOLLARD
MOUNTING LOCATION: FLOOR

RECESSED STEP LIGHT
MOUNTING LOCATION: WALL

TREE UPLIGHT
MOUNTING LOCATION: FLOOR

POLE LIGHT
MOUNTING LOCATION: FLOOR

RECESSED DOWNLIGHT
MOUNTING LOCATION: CEILING

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COVER SHEET

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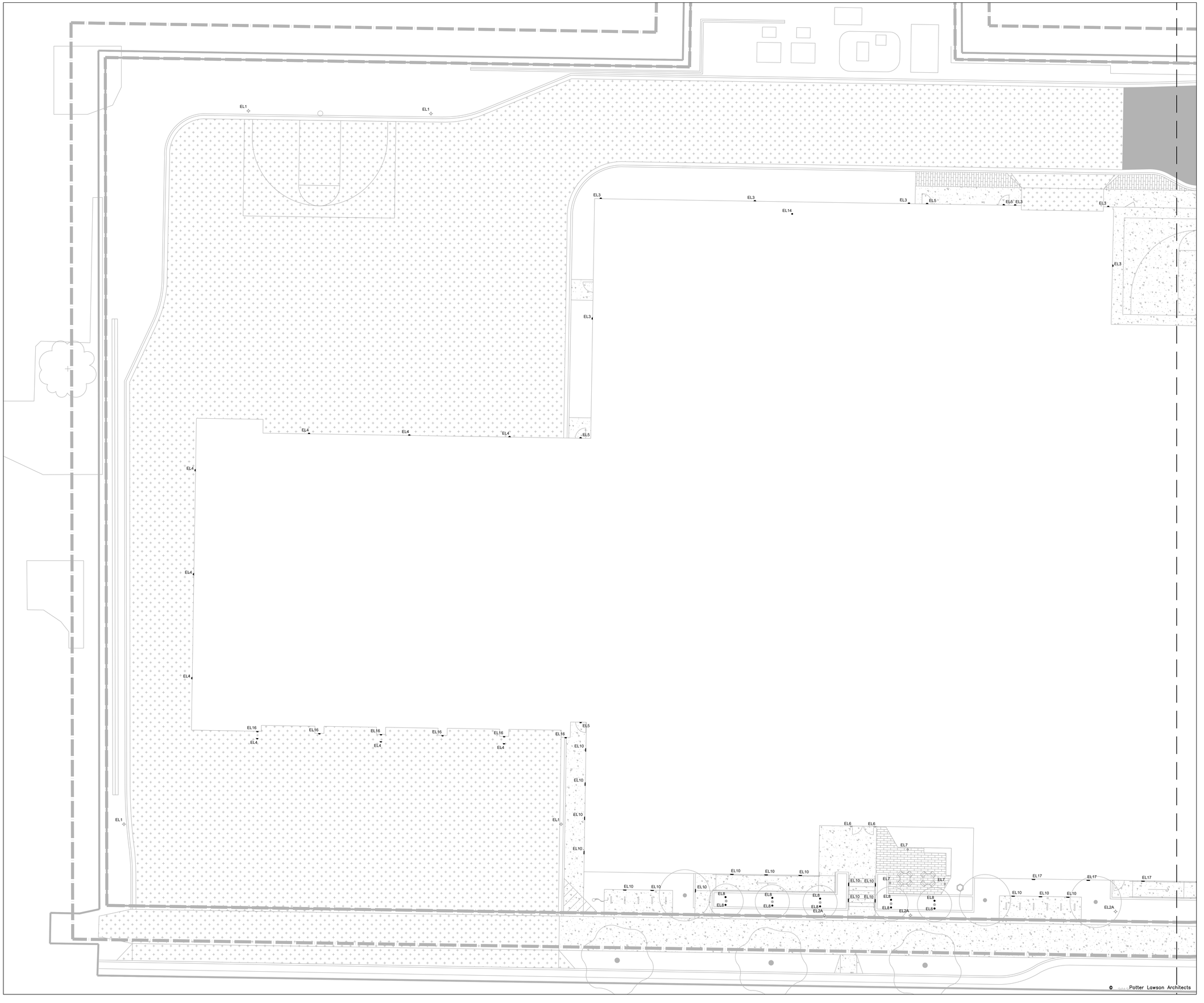

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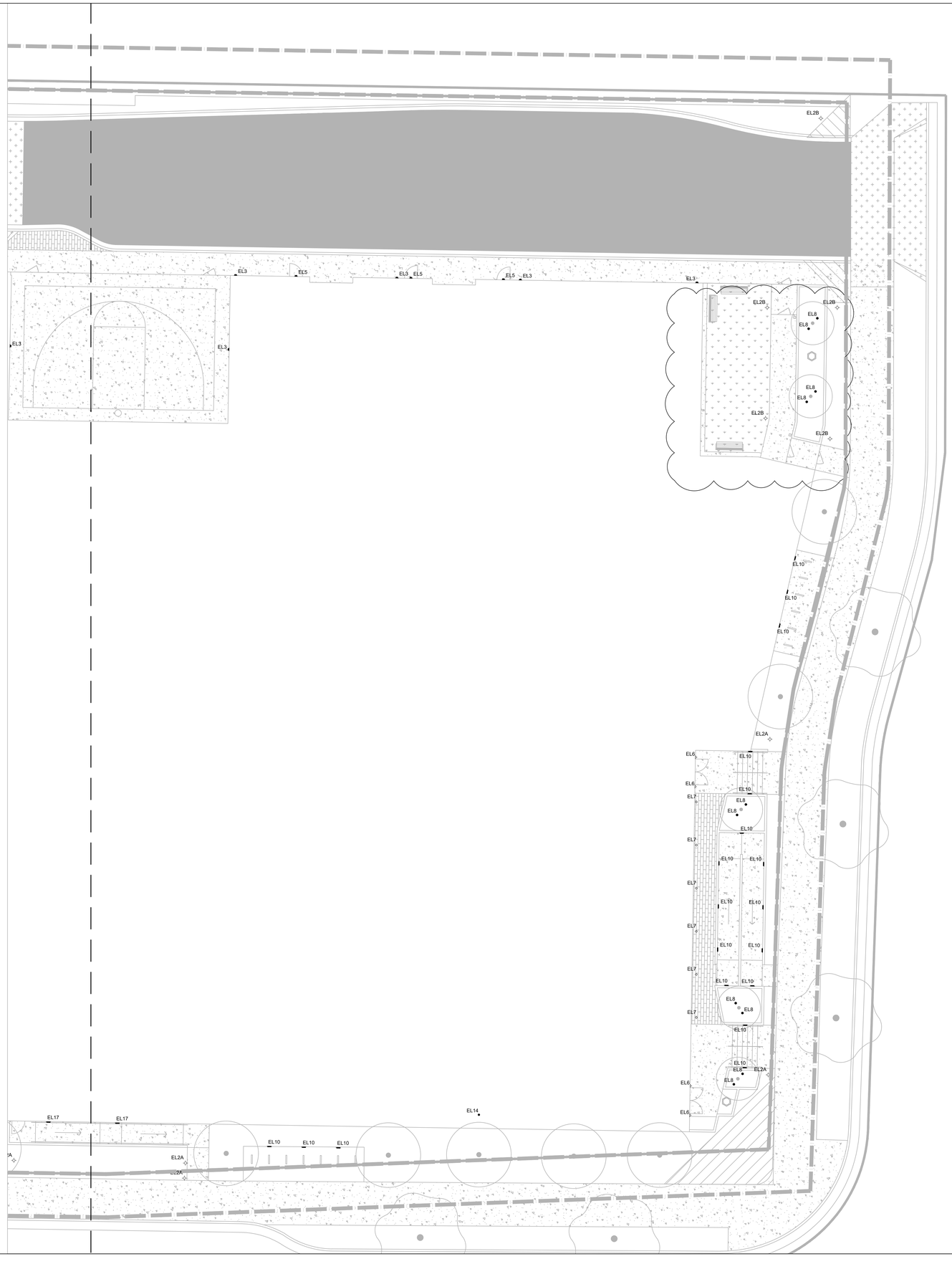
PART SITE PLAN LIGHTING

LD101A



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PART SITE PLAN LIGHTING

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ROOF TERRACE PLAN LIGHTING

LD102

Building Exterior - LUMINAIRE SCHEDULE

Fixture Tag	Product Image	Generic Luminaire Description	Acceptable Quality Reference Manufacturer and Model Series	UDC Compliance Notes
EL-1		24' Pole for site Illumination with full cut-off optics	Garco: OptiForm - OPF Medium with Broze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-2A		12' Pole with Cut-Off Optics Pedestrian Scale with IES Type IV Distribution Pattern	Landscapeforms: Motive Area Light Series with Bronze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-2B		12' Pole with Cut-Off Optics Pedestrian Scale with IES Type V Distribution Pattern	Landscapeforms: Motive Area Light Series with Bronze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-3		Wall mounted Cut-Off Area Light for General Illumination with IES Type II Comfort Distribution Pattern	Garco: Pure Form Wall Sconce - Comfort Optics with Bronze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-4		Wall mounted Cut-Off Area Light for Apparatus Building and Basketball Half-Court with IES Type IV Distribution Pattern	Garco: Pure Form Wall Sconce - Comfort Optics with Bronze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-5		Wall mounted Cut-Off Area Light for Entrance/Exit Pedestrian Doors with Broad Light Distribution Pattern	Isolite: ODLM Downlight Series with 2900K Filter Lens and Bronze Finish	**All light emitted is totally directed onto the grade surface, Dark Sky Compliant**
EL-6		Decorative wall sconce at the main Entry points with 360 Degree Optics Directed Backwards at Wall	Landscapeforms: Motive Wall Light Series with Bronze Finish	**Lamp output is Directed Backwards at Wall and in compliance with MGO 29.36.**
EL-7		35.5" High Landscape Bollard	Landscapeforms: Motive Path Light Series with Bronze Finish	**All light emitted is totally directed onto the Terrace Deck, Dark Sky Compliant**
EL-8		Tree up light	iGuzzini Light Up Orbit Series with Bronze Finish	**Lamp output of 302 Lumens is in compliance with MGO 29.36**
EL-9		Beneath Bench Downward Directed Continuous Encapsulated Flexible Tape Light in Aluminum Channel	PureEdge Lighting: Flex Neon LRF5 Series	**This fixture type is totally Concealed Behind/Beneath Seating Bench Directing light Downwards.**
EL-10		2.52"H x 11.97"W x 2.05"D Linear Step light with Louver	Targetti: ZEDGE Shielded View Series with Bronze Finish	**All light emitted is completely concealed, Cut-off louvered, and totally directed onto the Terrace Deck surface**
EL-11		Surface mounted soffit mounted 9 X 9 Degree Grazing Downlight for Architectural Facade Columns	Ecosense: TROV L50 Graze Series with Glare Control Accessory and Bronze Finish	**All light emitted is completely concealed with Cut-off louver and directed only onto the Architectural Column surface**
EL-12		Residence Balcony with no Overhang Wall Sconce with 60 Degree Optics Directed Backwards at Wall	Sistemalux: Pivot Series - Small with Burnished Bronze Finish	**Lamp output of 363 Lumens is Directed Backwards at Wall and in compliance with MGO 29.36.**
EL-13		Residence Balcony uplighting with Elliptical 10 X 60 Degree Optics Directed Upwards to Underside of Balcony Above	Sistemalux: Pivot Series - Medium with Burnished Bronze Finish	**Lamp output of 596 Lumens is Directed Entirely to Underside of Balcony Above and is thereby completely Shielded Skywardly.**
EL-14		3" Aperture Recessed Downlights: General Purpose Ambient	Focal Point Lighting: ID+ Series Downlight with Warm Diffused Finish Trim	**Recessed in the ceiling, this fixture type is considered to be a Cut-Off luminaire thereby in Compliance with MGO 29.36**
EL-15		Adjustable Ground mounted 10 Degree Accent Up light for Arched Columns and Trees	Ecosense: Rise Series 4 Watt with Honeycomb louver Glare Control Accessory and Bronze Finish	**Lamp output less than 500 Lumens is in compliance with MGO 29.36.**
EL-16		Decorative Wall Sconce with 60 Degree Optics Directed Backwards at Wall	Sistemalux: Pivot Series - Large with Burnished Bronze Finish	**Lamp output of 1023 Lumens is Directed Backwards at Wall and in compliance with MGO 29.36.**

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LUMINAIRE SCHEDULE

LD103

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GARDCO

Site and Area

OptiForm

OPF-M Medium

Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: OPF-M-A08-840-T4M-AR1-240-BL50-L3-BZ

Luminaire	Configuration (nom. lumens)	Color Temperature	Distribution	Mounting	Voltage
OPF-M OptiForm Medium Area	**A08** 13,500 lumens **A09** 17,000 lumens **A10** 20,000 lumens **A11** 23,000 lumens **A12** 26,000 lumens **A13** 30,000 lumens **A14** 32,000 lumens **A15** 34,000 lumens	**827**[1] 80CRI 2700K **830** 80CRI 3000K **840** 80CRI 4000K **727**[1] 70CRI 2700K **730** 70CRI 3000K **740** 70CRI 4000K **750** 70CRI 5000K	**AFR** Autofront row **T2M** Type 2 medium **T3M** Type 3 medium **T4M** Type 4 medium **T4W** Type 4 wide **T5N** Type 5 narrow **T5M** Type 5 medium **T5W** Type 5 wide **LCL** LEED corner optic left **LCR** LEED corner optic right **BLC** Back light control **2RL** Type 2 rotated left 90° **2RR** Type 2 rotated right 270° **3RL** Type 3 rotated left 90° **3RR** Type 3 rotated right 270° **4RL**[1] Type 4 rotated left 90° **4RR**[1] Type 4 rotated right 270°	**AR1**[2,13] Arm mount (standard) **MAR**[3] Mast arm **WAL** Wall mount **MOS**[4] Mounting ordered separately	**120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V **UNV** 120-277V **HVU** 347-480V

Dimming Controls	Sensing	Options (electrical, mechanical, etc)	Finish
The following options include 0-10V Driver		**None** Surge protector 10kV/10kA standard	**Standard textured finish**
none 0-10V dimming driver		**SP2** Surge protector 20kV/10kA (option)	**BK** Black
DLEA[5] Dimming leads externally accessible (controls by others)		**FS1**[11] Single fuse (120, 277, or 347VAC)	**WH** White
FAWS[5,6] Field adjustable wattage selector		**FS2**[11] Double fuse (208, 240, or 480V)	**BZ** Bronze
BL50[5,7,12] Bi-level with motion sensor	**L3** PIR sensor, #3 lens (Required if BL50 is selected)	**PCB**[10,11] Photocontrol button connected to 0-10V driver	**DG** Dark Gray
The following options include SR/DALI Driver	**WIAP sensor options**	**TR5** 5-pin twist lock receptacle connected to 0-10V driver	**MG** Medium Gray
WIAP[5,8] Wireless Interact (includes SR driver and SR receptacle)	**LB** Low (7'-15' mounting height) sensor, black color housing, wireless Interact, integral	**TR7** 7-pin twist lock receptacle connected to D4i compliant driver	**Customer specified**
SRDR[5,8] SR driver connected to Zhaga socket (D4i)	**LW** Low (7'-15' mounting height) sensor, white color housing	**TLP**[11] 7-pin twist lock receptacle connected to D4i compliant driver w/ 3-pin Photocell	**OC** Special optional color or RAL, consult factory
DynaDimmer: Automatic Profile Dimming	**HB** High (15'-40' mounting height) sensor, black color housing	**BAC**[1,14] Meets the requirements of the Buy American Act of 1933 (BAA)	**SC** Special color (must supply color chip, requires factory quote)
CS50[5] Security 50% dimming, 7 hours	**HW** High (15'-40' mounting height) sensor, white color housing		
CM50[5] Median 50% dimming, 8 hours			
CS30[5] Security 30% dimming, 7 hours			
CM30[5] Median 30% dimming, 8 hours			

1. Extended lead time applies. Consult factory for details.
2. Mounts to a square pole with knockout for 4-5" OD round pole.
3. Mounts to a horizontal 2-3/8" OD x 5" Long tenon.
4. Must be ordered with mounting accessory. Photocell option (TR7) must be selected with mounting accessory. See Page 2 for options.
5. Not available with other dimming control options (mutually exclusive).
6. Not available with motion sensor (physical restriction).
7. Must be specified with a motion sensor lens (L2 or L3).
8. Not available with PCB, TR5.
9. Must be specified with a motion sensor LW, LB, HW, HB.
10. Not available in 347, 480, or HVU.
11. Must specify input voltage.
12. Not available with TR7, TLP.
13. OPF-RMB accessory recommended for retrofit applications.
14. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

OPF-M OptiForm medium

Site & area luminaire

Shielding Accessory Kits (order separately)

OPF-M-HIS-2	Internal house side shields. For optic Types T2M, T3M, and T5N. qty 2
OPF-M-HIS-T4-2	Internal house side shield for optic types T4M and T4W. qty 2
OPF-M-HIS-5M/5W-2	Internal house side shield for optic types T5M and T5W. qty 2

Luminaire Accessories (order separately)

Pole Mount Fusing	
FP1[11]	Pole mount single fuse (120V, 277V, or 347V)
FP2[11]	Pole mount double fuse (208V, 240V, or 480V)
FP3[11]	Pole mount double fuse canadian double pull (208V, 240V, or 480V)
Photocell Accessories	
P400S	Shorting cap

Mountings (boxed and shipped separately)

Must choose Mounting Ordered Separately (MOS) selection for mounting option of luminaire. Useful for attachment of arm to pole prior to luminaire installation.
(F) Must specify finish

Standard Arm	
OPF-AR1-(F)[2,13]	Standard arm mount
OPF-AR1-TR7-(F)[2,13]	Standard arm mount with 7-pin (TR7) receptacle
Wall Mount	
OPF-WAL-(F)	Wall mount bracket
OPF-WAL-TR7-(F)	Wall mount with 7-pin (TR7) receptacle
Mast Arm	
OPF-MAR-(F)[3]	Mast arm mount
OPF-MAR-TR7-(F)[3]	Mast arm mount with 7-pin (TR7) receptacle

Mounting Accessories

OPF-RMB	Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications.
OPF-RPA	Round Pole Adapter. Fits to 3"- 3.9" O.D. pole. Painted black.

Pole Top Fitters

(F) Must specify finish

PTF2 - Pole top fitter fits 2 3/8 - 2 1/2" OD x 4" depth tenon	
PTF2-1-90-(F)	1 luminiare at 90°
PTF2-2-90-(F)	2 luminiares at 90°
PTF2-3-90-(F)	3 luminiares at 90°
PTF2-4-90-(F)	4 luminiares at 90°
PTF2-2-180-(F)	2 luminiares at 180°
PTF2-3-120-(F)	3 luminiares at 120°
PTF3 - Pole top fitter fits 3-3 1/2" OD x 6" depth tenon	
PTF3-1-90-(F)	1 luminiare at 90°
PTF3-2-90-(F)	2 luminiares at 90°
PTF3-3-90-(F)	3 luminiares at 90°
PTF3-4-90-(F)	4 luminiares at 90°
PTF3-2-180-(F)	2 luminiares at 180°
PTF3-3-120-(F)	3 luminiares at 120°

Optical Distributions

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 4 Wide

Type 5 Narrow

Type 5 Medium

Type 5 Wide

Autofront Row

Back Light Control

LCL

LCR

OPF-M OptiForm medium

Site & area luminaire

OPF-M Area Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A08	74	T2M	12994	B3-U0-G3	175	13738	B3-U0-G3	185	13738	B3-U0-G3	185
		T3M	12890	B3-U0-G3	173	13628	B3-U0-G3	183	13628	B3-U0-G3	183
		T4M	13064	B2-U0-G2	176	13811	B2-U0-G2	186	13811	B2-U0-G2	186
		T5M	13465	B4-U0-G2	181	14236	B4-U0-G2	191	14236	B4-U0-G2	191
		AFR	13458	B3-U0-G3	181	14228	B3-U0-G3	191	14228	B3-U0-G3	191
		T4W	12438	B2-U0-G3	167	13150	B2-U0-G3	177	13150	B2-U0-G3	177
		T5N	13370	B4-U0-G2	180	14136	B4-U0-G2	190	14136	B4-U0-G2	190
		T5W	12873	B4-U0-G2	173	13610	B4-U0-G2	183	13610	B4-U0-G2	183
		LCL	7070	B1-U0-G2	95	7474	B1-U0-G2	100	7474	B1-U0-G2	100
		LCR	7070	B1-U0-G2	95	7474	B1-U0-G2	100	7474	B1-U0-G2	100
		BLC	9060	B1-U0-G2	122	9579	B1-U0-G2	129	9579	B1-U0-G2	129
A09	93	T2M	16158	B3-U0-G3	174	17083	B3-U0-G3	184	17083	B3-U0-G3	184
		T3M	16029	B3-U0-G3	173	16947	B3-U0-G3	183	16947	B3-U0-G3	183
		T4M	16245	B2-U0-G3	175	17175	B2-U0-G3	185	17175	B2-U0-G3	185
		T5M	16744	B4-U0-G2	180	17703	B4-U0-G2	191	17703	B4-U0-G2	191
		AFR	16736	B3-U0-G3	180	17693	B3-U0-G3	191	17693	B3-U0-G3	191
		T4W	15467	B2-U0-G3	167	16352	B2-U0-G3	176	16352	B2-U0-G3	176
		T5N	16626	B4-U0-G2	179	17578	B4-U0-G2	189	17578	B4-U0-G2	189
		T5W	16008	B4-U0-G3	172	16924	B4-U0-G3	182	16924	B4-U0-G3	182
		LCL	8791	B1-U0-G2	95	9295	B1-U0-G2	100	9295	B1-U0-G2	100
		LCR	8791	B1-U0-G2	95	9295	B1-U0-G2	100	9295	B1-U0-G2	100
		BLC	11266	B1-U0-G2	121	11911	B1-U0-G2	128	11911	B1-U0-G2	128
A10	112	T2M	19256	B3-U0-G3	173	20357	B3-U0-G3	183	20357	B3-U0-G3	183
		T3M	19102	B3-U0-G3	171	20195	B3-U0-G3	181	20195	B3-U0-G3	181
		T4M	19359	B2-U0-G3	174	20467	B3-U0-G3	184	20467	B3-U0-G3	184
		T5M	19954	B4-U0-G2	179	21096	B4-U0-G2	189	21096	B4-U0-G2	189
		AFR	19944	B3-U0-G3	179	21085	B3-U0-G3	189	21085	B3-U0-G3	189
		T4W	18432	B3-U0-G3	165	19487	B3-U0-G3	175	19487	B3-U0-G3	175
		T5N	19813	B4-U0-G2	178	20947	B4-U0-G2	188	20947	B4-U0-G2	188
		T5W	19077	B4-U0-G3	171	20169	B5-U0-G3	181	20169	B5-U0-G3	181
		LCL	10477	B1-U0-G2	94	11076	B2-U0-G2	99	11076	B2-U0-G2	99
		LCR	10477	B1-U0-G2	94	11076	B1-U0-G2	99	11076	B1-U0-G2	99
		BLC	13426	B1-U0-G2	120	14194	B1-U0-G2	127	14194	B1-U0-G2	127
A11	131	T2M	22348	B3-U0-G3	171	23626	B3-U0-G3	180	23626	B3-U0-G3	180
		T3M	22169	B3-U0-G3	169	23438	B3-U0-G3	179	23438	B3-U0-G3	179
		T4M	22468	B3-U0-G3	172	23753	B3-U0-G3	181	23753	B3-U0-G3	181
		T5M	23158	B4-U0-G2	177	24483	B4-U0-G2	187	24483	B4-U0-G2	187
		AFR	23146	B3-U0-G3	177	24471	B3-U0-G3	187	24471	B3-U0-G3	187
		T4W	21392	B3-U0-G4	163	22616	B3-U0-G4	173	22616	B3-U0-G4	173
		T5N	22995	B4-U0-G2	176	24311	B4-U0-G2	186	24311	B4-U0-G2	186
		T5W	22140	B5-U0-G3	169	23407	B5-U0-G3	179	23407	B5-U0-G3	179
		LCL	12159	B2-U0-G2	93	12855	B2-U0-G2	98	12855	B2-U0-G2	98
		LCR	12159	B1-U0-G2	93	12855	B1-U0-G2	98	12855	B1-U0-G2	98
		BLC	15582	B1-U0-G2	119	16474	B1-U0-G3	126	16474	B1-U0-G3	126

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OPF-M Area Optic Lumen values (cont'd)

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A12	150	T2M	25049	B3-U0-G3	167	26482	B3-U0-G3	176	26482	B3-U0-G3	176
		T3M	24849	B3-U0-G3	165	26271	B3-U0-G3	175	26271	B3-U0-G3	175
		T4M	25183	B3-U0-G4	168	26625	B3-U0-G4	177	26625	B3-U0-G4	177
		T5M	25957	B5-U0-G3	173	27443	B5-U0-G3	183	27443	B5-U0-G3	183
		AFR	25944	B3-U0-G3	173	27429	B3-U0-G3	183	27429	B3-U0-G3	183
		T4W	23978	B3-U0-G4	160	25350	B3-U0-G4	169	25350	B3-U0-G4	169
		T5N	25775	B4-U0-G2	172	27250	B4-U0-G2	181	27250	B4-U0-G2	181
		T5W	24816	B5-U0-G3	165	26237	B5-U0-G3	175	26237	B5-U0-G3	175
		LCL	13629	B2-U0-G2	91	14409	B2-U0-G2	96	14409	B2-U0-G2	96
		LCR	13629	B2-U0-G2	91	14409	B2-U0-G2	96	14409	B2-U0-G2	96
		BLC	17465	B1-U0-G3	116	18465	B1-U0-G3	123	18465	B1-U0-G3	123
A13	176	T2M	28766	B3-U0-G3	163	30412	B3-U0-G3	173	30412	B3-U0-G3	173
		T3M	28536	B3-U0-G4	162	30169	B3-U0-G4	171	30169	B3-U0-G4	171
		T4M	28920	B3-U0-G4	164	30575	B3-U0-G4	173	30575	B3-U0-G4	173
		T5M	29809	B5-U0-G3	169	31515	B5-U0-G3	179	31515	B5-U0-G3	179
		AFR	29794	B4-U0-G4	169	31499	B4-U0-G4	179	31499	B4-U0-G4	179
		T4W	27536	B3-U0-G4	156	29111	B3-U0-G4	165	29111	B3-U0-G4	165
		T5N	29599	B5-U0-G3	168	31293	B5-U0-G3	177	31293	B5-U0-G3	177
		T5W	28499	B5-U0-G3	162	30130	B5-U0-G3	171	30130	B5-U0-G3	171
		LCL	15651	B2-U0-G2	89	16547	B2-U0-G2	94	16547	B2-U0-G2	94
		LCR	15651	B2-U0-G2	89	16547	B2-U0-G2	94	16547	B2-U0-G2	94
		BLC	20057	B1-U0-G3	114	21205	B1-U0-G3	120	21205	B1-U0-G3	120
A14	190	T2M	30449	B4-U0-G4	161	32191	B4-U0-G4	170	32191	B4-U0-G4	170
		T3M	30206	B3-U0-G4	159	31934	B3-U0-G4	168	31934	B3-U0-G4	168
		T4M	30612	B3-U0-G4	161	32364	B3-U0-G4	171	32364	B3-U0-G4	171
		T5M	31553	B5-U0-G3	166	33359	B5-U0-G3	176	33359	B5-U0-G3	176
		AFR	31537	B4-U0-G4	166	33342	B4-U0-G4	176	33342	B4-U0-G4	176
		T4W	29147	B3-U0-G4	154	30815	B3-U0-G4	163	30815	B3-U0-G4	163
		T5N	31331	B5-U0-G3	165	33124	B5-U0-G3	175	33124	B5-U0-G3	175
		T5W	30166	B5-U0-G4	159	31892	B5-U0-G4	168	31892	B5-U0-G4	168
		LCL	16567	B2-U0-G2	87	17515	B2-U0-G2	92	17515	B2-U0-G2	92
		LCR	16567	B2-U0-G2	87	17515	B2-U0-G2	92	17515	B2-U0-G2	92
		BLC	21230	B1-U0-G3	112	22445	B1-U0-G3	118	22445	B1-U0-G3	118
A15	202	T2M	31896	B4-U0-G4	158	33721	B4-U0-G4	167	33721	B4-U0-G4	167
		T3M	31641	B3-U0-G4	157	33452	B4-U0-G4	166	33452	B4-U0-G4	166
		T4M	32067	B3-U0-G4	159	33902	B3-U0-G4	168	33902	B3-U0-G4	168
		T5M	33052	B5-U0-G3	164	34944	B5-U0-G3	173	34944	B5-U0-G3	173
		AFR	33035	B4-U0-G4	164	34926	B4-U0-G4	173	34926	B4-U0-G4	173
		T4W	30532	B3-U0-G4	151	32279	B3-U0-G5	160	32279	B3-U0-G5	160
		T5N	32820	B5-U0-G3	163	34698	B5-U0-G3	172	34698	B5-U0-G3	172
		T5W	31600	B5-U0-G4	157	33408	B5-U0-G4	166	33408	B5-U0-G4	166
		LCL	17354	B2-U0-G3	86	18347	B2-U0-G3	91	18347	B2-U0-G3	91
		LCR	17354	B2-U0-G3	86	18347	B2-U0-G3	91	18347	B2-U0-G3	91
		BLC	22239	B1-U0-G3	110	23512	B1-U0-G3	117	23512	B1-U0-G3	117

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Predicted Lumen Depreciation Data

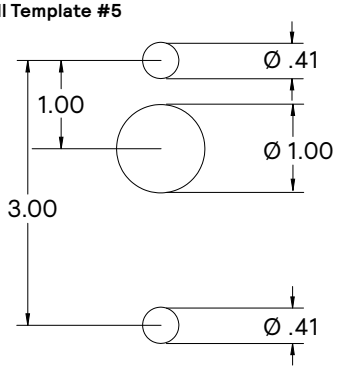
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temp°C	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**>100,000 hours**	**>102,000 hours**	**96%**

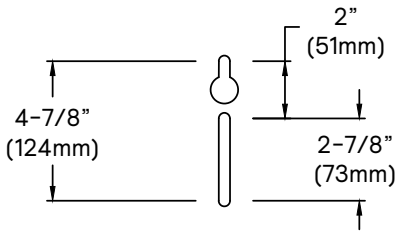
Dimensions

Standard Drill Pattern

Drill Template #5



Standard Arm Mounting Hole Pattern



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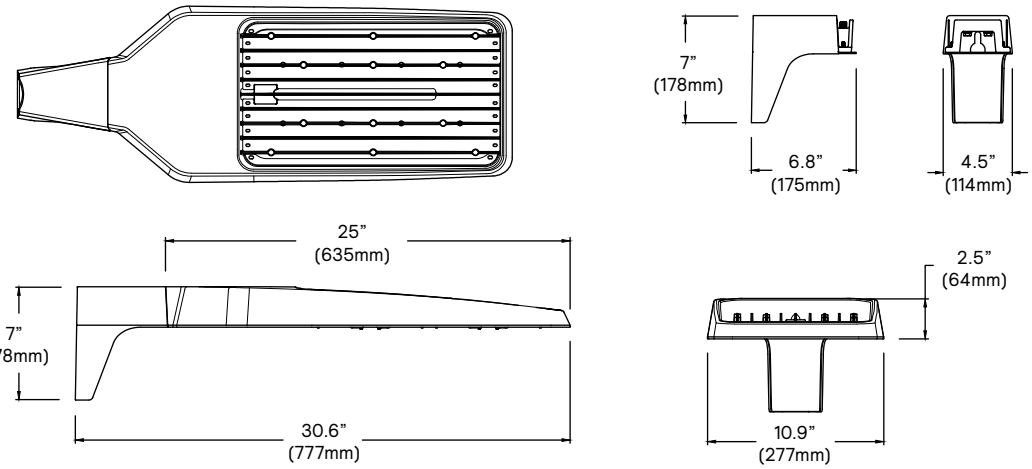
Dimensions

OptiForm Standard Arm

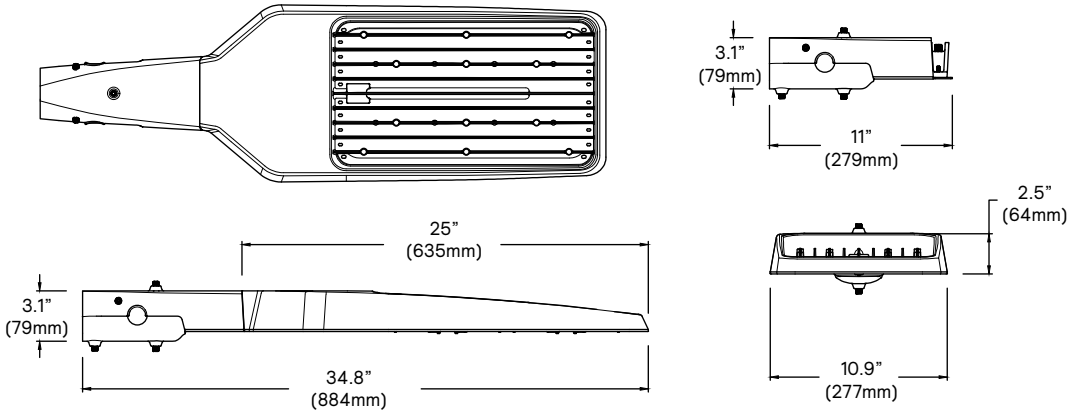
Weight: 13 lb (5.9 kg)

EPA: 0.15 ft² (0.014 m²)



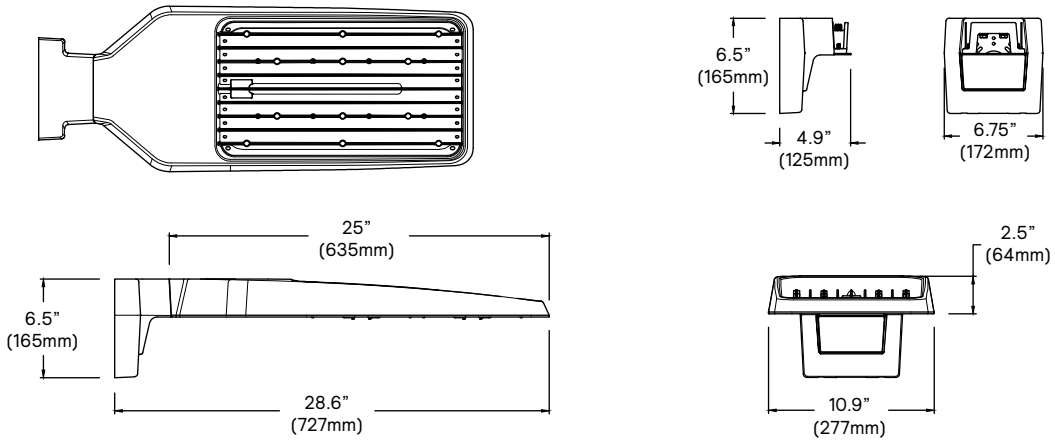
OptiForm Mast Arm

Weight: 14.6 lb (6.6 kg)



OptiForm Wall Mount

Weight: 13.5lb (6.1 kg)



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Specifications

Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detachable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66, tested in accordance to Section 9 of IEC 60598-1. OptiForm carries and impact rating of IK08.

Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 191 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2M, 3M, 4M, 4W, 5, 5M, 5W, AFR, LCL, LCR, and BLC distributions available. Internal shield option mounts to LED optics and is available with Type 2M, 3M, and 4M distributions, including a dedicated BLC and L/R Corner optics to provide the best backlight control possible for stringent requirements around property lines. Types 2M, 3M and 4M when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accomodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

Control options

Dimming Leads Externally Accessible (DLEA): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be specified with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	**6**	80%
2	50%	**7**	85%
3	55%	**8**	90%
4	65%	**9**	95%
5	75%	**10**	100%

Note: Typical value accuracy +/- 5%

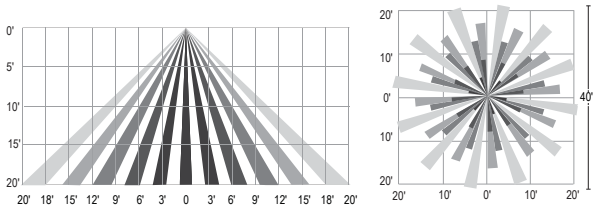
Motion response options

Bi-Level Infrared Motion Response (BL50): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL50 is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (L3): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 is designed for mounting heights 8' to 15'. Lens #3 is designed for higher mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

MR3 Luminaire or remote mount controller with #3 lens



Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming - activated via the Interact App. Sensors IP66 rated.

For more information on Interact Pro visit:

www.interact-lighting.com/interactproscalablesystem

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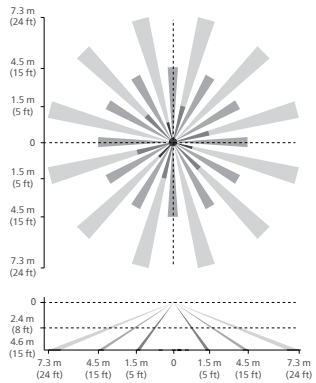
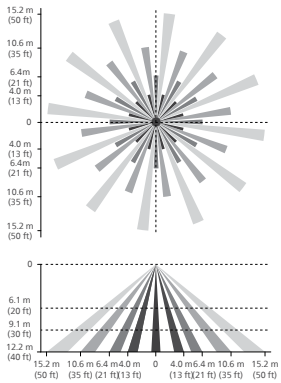
Specifications (cont'd)

LB or LW low sensor



HB or HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

Electrical

Twist-Lock Receptacle (TR7/TLP): Twist-Lock Receptacle with 7 pins enabling dimming with additional functionality (by others) can be used with a twist-lock photoelectric cell or a shorting cap. Dimming Receptacle Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire arm. When specifying receptacle with twist-lock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Twist-Lock Receptacle (TR5/TR7): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Compliant.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

OptiForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

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Motive Area Light

Spec Sheet | AJ500

Motive is a sophisticated family of lights that blurs the line between indoor and outdoor lighting to create out-of-the-ordinary settings. Designed by Justin Champaign, Motive celebrates the beauty of illumination and its interaction with architecture, objects, and space. The luminaires' neutral sculptural form address an array of applications for buildings and grounds, pathways, social spaces, and high-profile areas such as art installations and entrances.

Housing & Materials

A UV stable, impact modified diffused acrylic lens seals to the cast aluminum round luminaire housing. Luminaire mounts to a tenon on the top of pole and is secured with three stainless steel set screws. Top cover is secured by three magni-coated cap screws on top of the luminaire.

Electrical

Internally mounted surge protected 120V through 277V 50/60Hz electronic driver, 0-10V dimming. -40°C start temperature. Available with optional ANSI C136.41 twist lock receptacle Motive area light ships prewired.

Light Engine

Cast aluminum light cartridge with high powered LEDs mounted to a RoHS compliant circuit board delivers indirect lighting in conjunction with the spun aluminum reflector (not available on Lambertian). Replaceable cartridge provides ease of installation and serviceability. Available in 2700K, 3000K, 3500K, and 4000K. >80 CRI across all available color temperatures.

Distributions

Lambertian TIV TV

Warranty

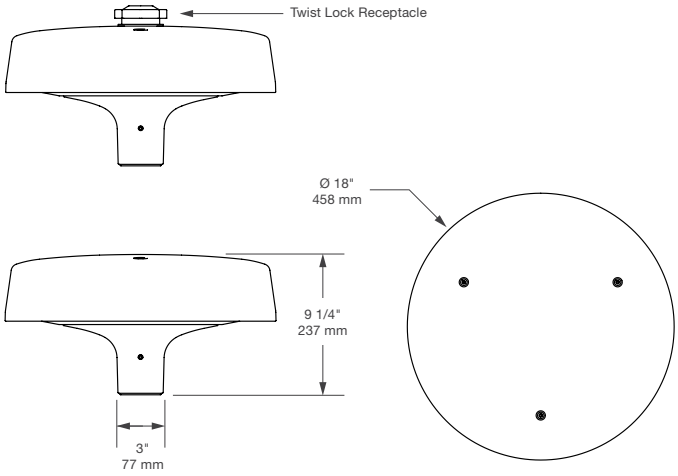
LED lighting products are warranted for six years.

Certification

UL Listed for Wet Location, CE, International Dark Sky Approved, Buy America Compliant, RoHS Compliant

Designed by Justin Champaign

Click here for patent information related to this product.

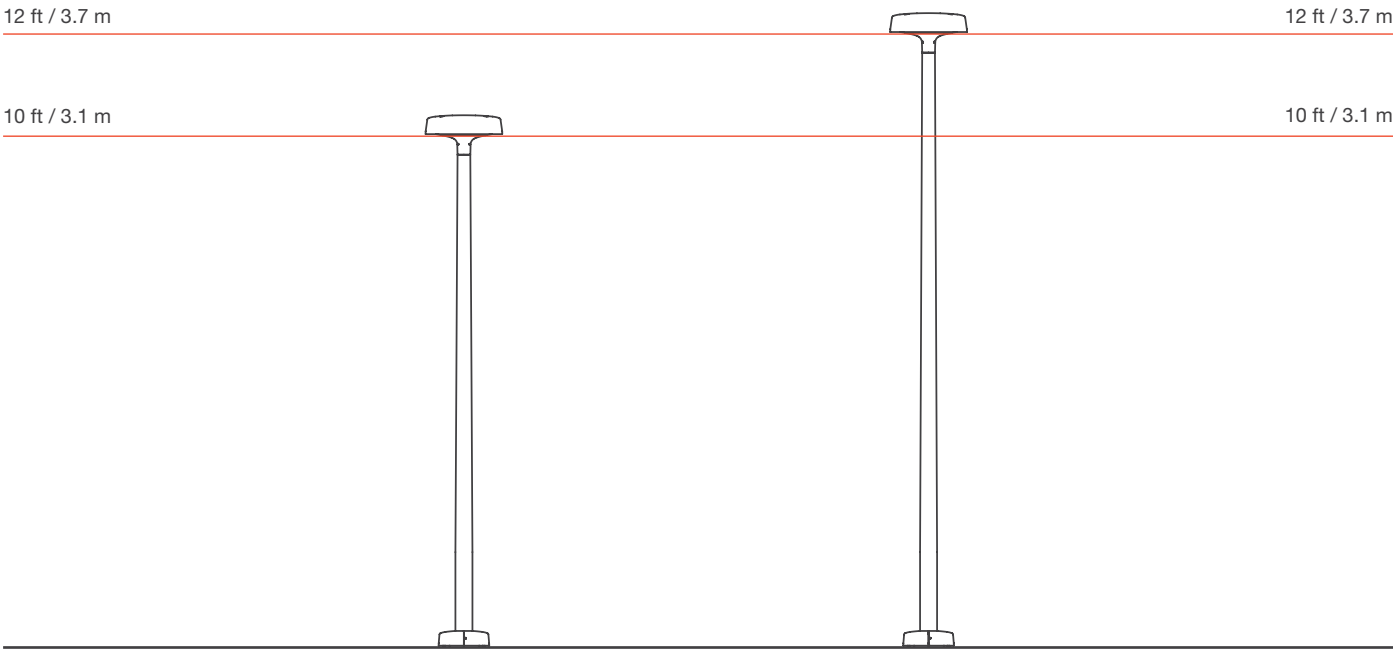


Weight: 27 lbs (luminaire only)
EPA: 0.69 ft^2

TM21 L70(10k): 60,000 hrs
Protection Class: IP66

Motive Area Light

Spec Sheet | AJ500



Pole

Round pole is tapered 4” to 3” and manufactured from seamless 6061 aluminum tubing and heat treated to produce a T6 temper. Nominal wall thickness is 0.125". Flush mounted hand hole cover includes two magni-coated fasteners. Pole is topped with standard dimension 2-3/8" dia x 4" tenon.

Base plate is cast aluminum A356 alloy heat treated to a T6 temper. Base cover is a two-piece cast aluminum cover plate. Pole is mounted at grade with galvanized steel anchor bolts. Template and anchor hardware included.

Model	Distribution Type	Drive Current	Delivered Lumens	System Wattage	BUG Rating
AJ500-T4-40F	Type IV	400mA	1362	16.0	B1-U0-G1
AJ500-T4-60F	Type IV	600mA	1973	24.1	B1-U0-G1
AJ500-T5-80F	Type V	800mA	2761	31.7	B2-U0-G1
AJ500-T5-120F	Type V	1200mA	3987	47.9	B2-U0-G1
AJ500-LB-80F	Lambertian	800mA	2487	31.7	B1-U0-G1

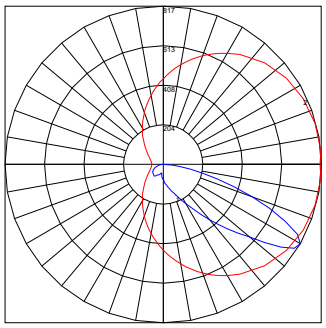
This data is subject to change.

Motive Area Light

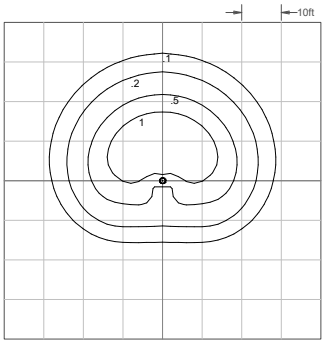
Spec Sheet | AJ500

landscapeforms

AJ500-T4-40F

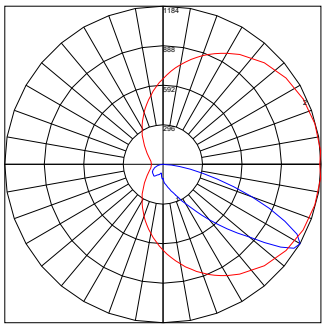


Maximum Candela=816.891
Located at Horizontal Angle=5,
Vertical Angle=6

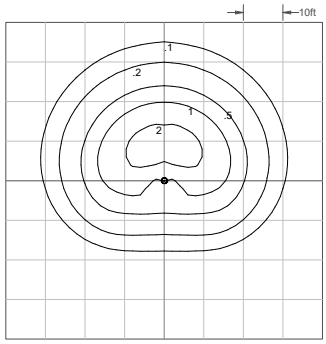


Mounting Height:10ft

AJ500-T4-60F

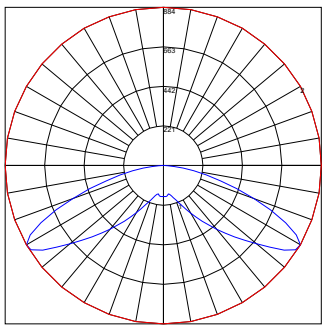


Maximum Candela=1183.9
Located at Horizontal Angle=5,
Vertical Angle=60

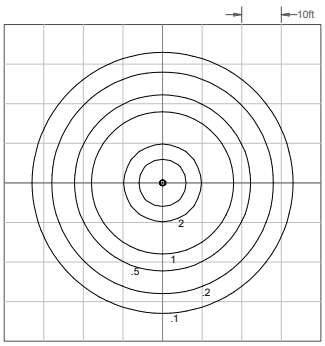


Mounting Height:10ft

AJ500-T5-80F

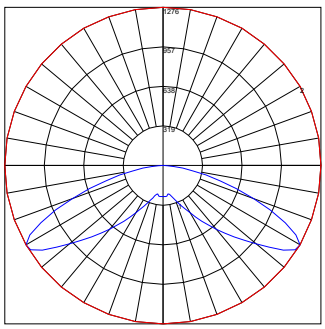


Maximum Candela=884.2
Located at Horizontal Angle=0,
Vertical Angle=60

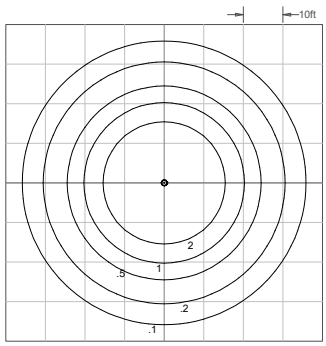


Mounting Height:10ft

AJ500-T5-120F

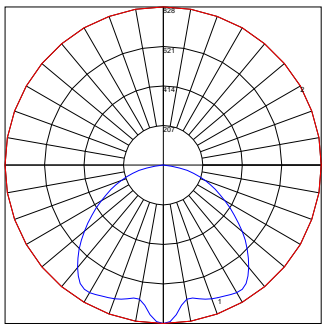


Maximum Candela=1276.4
Located at Horizontal Angle=0,
Vertical Angle=60

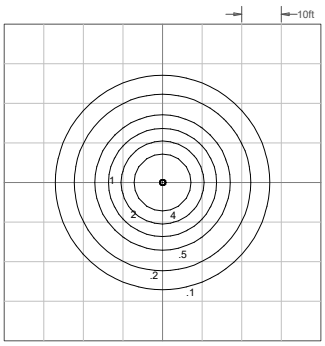


Mounting Height:10ft

AJ500-LB-80F



Maximum Candela=828.2
Located at Horizontal Angle=0,
Vertical Angle=0



Mounting Height:10ft

Motive Area Light

Spec Sheet | AJ500

landscapeforms

Luminaire

Product	Distribution & Drive Current *	Color Temperature **	Input Voltage	Connection	Twist Lock
AJ500 *(Motive Area Light)*	T4-40F *(Type IV, 400mA)*	27K *(2700K)*	UV1 *(100V277V, 50/60 Hz)*	P2 *(Tenon Mount)*	NTW *(No Twist Lock)*
	T4-60F *(Type IV, 600mA)*	30K *(3000K)*			TW1 *(7-pin Twist Lock)*
	T5-80F *(Type V, 800mA)*	35K *(3500K)*			
	T5-120F *(Type V, 1200mA)*	40K *(4000K)*			
	LB-80F *(Lambertian, 800mA)*				

Example: AJ500 – T4 – 40F – 27K – UV1 – P2 – TW1 – Powdercoat
* Type 4 and type 5 available with a diffused lens only; lambertian available with a clear lens only.
** For Dark Sky certification, 3000k or warmer must be selected.

Pole

Lens Height	Pole Part Number	Description	Wall Thickness	Pole Weight
10 ft *(3.1m)*	AJ550-10-01	4" *(101.6mm)* to 3" *(76.2mm)* Tapered Aluminum Pole	0.125" *(3.2mm)*	25.5 lbs
12 ft *(3.7m)*	AJ550-12-01	4" *(101.6mm)* to 3" *(76.2mm)* Tapered Aluminum Pole	0.125" *(3.2mm)*	28.6 lbs

Example: AJ550-12-01

Notes:

Motive Area Light

landscapeforms

Material / Colors Sheet | AJ500

Vivid Series - Powdercoated Metal* (Fine Texture)

CLY (Clay)

LMN (Lemon)

MNG (Mango)

CHL (Chili)

APR (Loll Apple Red)

LFG (Loll Leaf Green)

MSS (Moss)

FOR (Forest)

NVY (Loll Navy Blue)

Neutral Series - Powdercoated Metal*

SIL (Silver Metallic)

MER (Mercury Metallic)

STL (Steel Metallic)

BRZ (Bronze Metallic)

TNM (Titanium Metallic)

BLK (Gloss Black)

WHT (Gloss White)

Architectural Series - Powdercoated Metal* (Fine Texture)

FOG (Fog)

OBD (Obsidian)

MBK (Matte Black)

TER (Terra)

NMG (Nutmeg)

ONX (Onyx)

SAG (Sage)

BLA (Blue Ash)

DSK (Dusk)

Motive Area Light

Material / Colors Sheet | AJ500

landscapeforms

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

* All colors and patterns shown are approximate and may vary from sample and final.

Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.
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GARDCO

Site and Area

OptiForm

OPF-S Small

Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: OPF-S-A01-840-T4M-AR1-120-BL50-L3-BZ

Luminaire

OPF-S

OptiForm Small Area

Configuration (nom. lumens)

Site and Area

A01	7,000 lumens
A02	9,000 lumens
A03	11,000 lumens
A04	15,000 lumens
A05	17,000 lumens
A06	19,000 lumens
A07	20,000 lumens

Precision Plus[16] (T2M, T3M, T4M, T5M only)

P01	2,500 lumens
P02	4,000 lumens
P03	6,500 lumens
P04	9,000 lumens
P05	11,500 lumens
P06	14,000 lumens
P07	16,500 lumens
P08	19,000 lumens
P09	22,000 lumens

Color Temperature

827[1]	80CRI 2700K
830	80CRI 3000K
840	80CRI 4000K
727[1]	70CRI 2700K
730	70CRI 3000K
740	70CRI 4000K
750	70CRI 5000K

Distribution

AFR	Autofront row	**LCL**	LEED corner optic left
T2M	Type 2 medium	**LCR**	LEED corner optic right
T3M	Type 3 medium	**BLC**	Back light control
T4M	Type 4 medium	**2RL**	Type 2 rotated left 90°
T4W	Type 4 wide	**2RR**	Type 2 rotated right 270°
T5N	Type 5 narrow	**3RL**	Type 3 rotated left 90°
T5M	Type 5 medium	**3RR**	Type 3 rotated right 270°
T5W	Type 5 wide	**4RL**[1]	Type 4 rotated left 90°
		4RR[1]	Type 4 rotated right 270°

Mounting

AR1[2,17]	Arm mount (standard)
MAR[3]	Mast arm
WAL	Wall mount
MOS[4]	Mounting ordered separately

Voltage

120	120V
208	208V
240	240V
277	277V
347	347V
480	480V
UNV	120-277V
HVU[16]	347-480V

Dimming Controls

The following options include 0-10V Driver

none	0-10V dimming driver
DLEA[5,10]	Dimming leads externally accessible (controls by others)
FAWS[5,6,10]	Field adjustable wattage selector
BL50[5,7,10]	Bi-level with motion sensor

The following options include SR/DALI Driver

WIAP[5,8,13]	Wireless Interact (includes SR drive and SR receptacle)
SRDR[5,8,13]	SR driver connected to Zhaga socket (D4i)

DynaDimmer: Automatic Profile Dimming

CS50[5,13]	Security 50% dimming, 7 hours
CM50[5,13]	Median 50% dimming, 8 hours
CS30[5,13]	Security 30% dimming, 7 hours
CM30[5,13]	Median 30% dimming, 8 hours

Sensing

L2	PIR sensor, #2 lens (Required if BL50 is selected)

WIAP sensor options

LB	Low (7'-15' mounting height) sensor, black color housing, wireless Interact, integral
LW	Low (7'-15' mounting height) sensor, white color housing
HB	High (15'-40' mounting height) sensor, black color housing
HW	High (15'-40' mounting height) sensor, white color housing

Options (electrical, mechanical, etc)

None	Surge protector 10kV/10kA standard
SP2	Surge protector 20kV/10kA (option)
FS1[11]	Single fuse (120, 277, or 347VAC)
FS2[11]	Double fuse (208, 240, or 480V)
PCB[11,12]	Photocontrol button connected to 0-10V driver
TR5	NEMA Twist-lock 5-pin receptacle connected to 0-10V driver
TR7[13]	7-pin twist lock receptacle connected to D4i compliant driver
TLP[11,13]	7-pin twist lock receptacle connected to D4i compliant driver w/ 3-pin photocell
EHS	Housing machined to accept external house side shield for field install. Must be combined with OPF-S-EHS-1 accessory.
BAC[1,18]	Meets the requirements of the Buy American Act of 1933 (BAA)

Emergency

EM[12,14,15]	Emergency Battery Pack (0-40 °C) Available with precision plus optics P01-P03 only

Finish

Standard textured finish

BK	Black
WH	White
BZ	Bronze
DG	Dark Gray
MG	Medium Gray

Customer specified

OC	Special optional color or RAL, consult factory
SC	Special color (must supply color chip, requires factory quote)

1. Extended leadtime applies. Consult factory for details.
2. Mounts to a square pole with knockout for 4-5" OD round pole.
3. Mounts to a horizontal 2-3/8" OD x 5" Long tenon.
4. Must be ordered with mounting accessory. Photocell option (TR7) must be selected with mounting accessory. See Page 2 for options.
5. Not available with other dimming control options (mutually exclusive).
6. Not available with motion sensor (physical restriction).
7. Must be specified with a motion sensor lens (L2).
8. Not available with PCB, TR5.
9. Must be specified with a motion sensor LW, LB.
10. Not available with TR7, TLP.
11. Must specify input voltage.
12. Not available in HVU [347-480V].
13. UNV [120-277V] only available for lumen packages P03-P09. HVU [347-480V] only available for lumen packages P06-P09 & A04-A07.
14. Not available for lumen packages P04-P09.
15. Not available with Dynadimmer, SRDR, FAWS, FS1, FS2, DLEA, BL50 (physical restriction).
16. Precision Plus Optics (P01-P09) available only with T2M, T3M, T4M, and T5M optical distributions and are non-rotatable.
17. OPF-RMB accessory recommended for retrofit applications.
18. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

OPF-S OptiForm small

Site & area luminaire

Shielding Accessory Kits (order separately)

One shield kit per luminaire

OPF-S-EHS-1*	External house side shield (field installed)
OPF-S-HIS-1**	Internal house side shields. For Area optic types T2M, T3M, and T5N.
OPF-S-HIS-T4-1**	Internal house side shield for Area optic types T4M and T4W, qty 1.
OPF-S-HIS-5M/5W-1**	Internal house side shield for Area optic types T5M and T5W. qty 1

*Must select EHS option on luminiare options section

**Not available for Precision Plus (P01-P09)

Luminaire Accessories (order separately)

Pole Mount Fusing	
FP1	Pole mount single fuse (120V, 277V, or 347V)
FP2	Pole mount double fuse (208V, 240V, or 480V)
FP3	Pole mount double fuse canadian double pull (208V, 240V, or 480V)
Photocell Accessories	
P400S	Shorting cap

Mountings (boxed and shipped separately)

Must choose Mounting Ordered Separately (MOS) selection for mounting option of luminaire. Useful for attachment of arm to pole prior to luminaire installation.

Standard Arm	
OPF-AR1-(F)[2,17]	Standard arm mount
OPF-AR1-TR7-(F)[2,13,17]	Mast arm mount with 7-pin (TR7) receptacle
Wall Mount	
OPF-WAL-(F)	Wall mount bracket
OPF-WAL-TR7-(F)[13]	Wall mount with 7-pin (TR7) receptacle
Mast Arm	
OPF-MAR-(F)[3]	Mast arm mount
OPF-MAR-TR7-(F)[3,13]	Mast arm mount with 7-pin (TR7) receptacle

Mounting Accessories

OPF-RMB	Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications.
OPF-RPA	Round Pole Adapter. Fits to 3"- 3.9" O.D. pole. Painted black.

Pole Top Fitters

PTF2 - Pole top fitter fits 2 3/8 - 2 1/2" OD x 4" depth tenon	
PTF2-1-90-(F)	1 luminiare at 90°
PTF2-2-90-(F)	2 luminiares at 90°
PTF2-3-90-(F)	3 luminiares at 90°
PTF2-4-90-(F)	4 luminiares at 90°
PTF2-2-180-(F)	2 luminiares at 180°
PTF2-3-120-(F)	3 luminiares at 120°
PTF3 - Pole top fitter fits 3-3 1/2" OD x 6" depth tenon	
PTF3-1-90-(F)	1 luminiare at 90°
PTF3-2-90-(F)	2 luminiares at 90°
PTF3-3-90-(F)	3 luminiares at 90°
PTF3-4-90-(F)	4 luminiares at 90°
PTF3-2-180-(F)	2 luminiares at 180°
PTF3-3-120-(F)	3 luminiares at 120°

Optical Distributions

Site and Area Optics

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 4 Wide

Type 5 Narrow

Type 5 Medium

Type 5 Wide

Back Light Control

Autofront Row

LCL

LCR

Precision Plus Optics

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 5 Medium

OPF-S OptiForm small

Site & area luminaire

OPF-S Area Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	42	T2M	6991	B2-U0-G2	167	7391	B2-U0-G2	176	7391	B2-U0-G2	176
		T3M	6935	B2-U0-G2	166	7332	B2-U0-G2	175	7332	B2-U0-G2	175
		T4M	7028	B1-U0-G2	168	7431	B1-U0-G2	177	7431	B1-U0-G2	177
		T5M	7244	B3-U0-G1	173	7659	B3-U0-G1	183	7659	B3-U0-G1	183
		AFR	7241	B2-U0-G2	173	7655	B2-U0-G2	183	7655	B2-U0-G2	183
		T4W	6692	B1-U0-G2	160	7075	B1-U0-G2	169	7075	B1-U0-G2	169
		T5N	7193	B3-U0-G1	172	7605	B3-U0-G1	182	7605	B3-U0-G1	182
		T5W	6926	B3-U0-G2	165	7322	B3-U0-G2	175	7322	B3-U0-G2	175
		LCL	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
		LCR	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
		BLC	4874	B0-U0-G1	116	5153	B0-U0-G1	123	5153	B0-U0-G1	123
A02	54	T2M	8941	B2-U0-G2	165	9452	B2-U0-G2	175	9452	B2-U0-G2	175
		T3M	8869	B2-U0-G2	164	9377	B2-U0-G2	173	9377	B2-U0-G2	173
		T4M	8989	B1-U0-G2	166	9503	B1-U0-G2	176	9503	B1-U0-G2	176
		T5M	9265	B3-U0-G2	171	9795	B3-U0-G2	181	9795	B3-U0-G2	181
		AFR	9260	B2-U0-G2	171	9790	B2-U0-G2	181	9790	B2-U0-G2	181
		T4W	8558	B2-U0-G2	158	9048	B2-U0-G2	167	9048	B2-U0-G2	167
		T5N	9200	B3-U0-G1	170	9726	B3-U0-G1	180	9726	B3-U0-G1	180
		T5W	8858	B3-U0-G2	164	9365	B3-U0-G2	173	9365	B3-U0-G2	173
		LCL	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
		LCR	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
		BLC	6234	B0-U0-G2	115	6591	B0-U0-G2	122	6591	B0-U0-G2	122
A03	54	T2M	10438	B2-U0-G2	164	11035	B2-U0-G2	174	11035	B3-U0-G3	174
		T3M	10354	B2-U0-G2	163	10947	B2-U0-G2	172	10947	B2-U0-G2	172
		T4M	10494	B2-U0-G2	165	11094	B1-U0-G2	174	11094	B2-U0-G2	174
		T5M	10816	B3-U0-G2	170	11435	B3-U0-G2	180	11435	B3-U0-G2	180
		AFR	10811	B3-U0-G3	170	11429	B2-U0-G2	180	11429	B3-U0-G3	180
		T4W	9991	B2-U0-G3	157	10563	B2-U0-G2	166	10563	B2-U0-G3	166
		T5N	10740	B3-U0-G2	169	11355	B3-U0-G1	179	11355	B3-U0-G2	179
		T5W	10341	B4-U0-G2	163	10933	B3-U0-G2	172	10933	B4-U0-G2	172
		LCL	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
		LCR	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
		BLC	7278	B1-U0-G2	114	7694	B0-U0-G2	121	7694	B1-U0-G2	121
A04	91	T2M	14465	B3-U0-G3	160	15293	B3-U0-G3	169	15293	B3-U0-G3	169
		T3M	14350	B3-U0-G3	158	15171	B3-U0-G3	167	15171	B3-U0-G3	167
		T4M	14543	B2-U0-G2	160	15375	B2-U0-G2	170	15375	B2-U0-G2	170
		T5M	14990	B4-U0-G2	165	15848	B4-U0-G2	175	15848	B4-U0-G2	175
		AFR	14982	B3-U0-G3	165	15840	B3-U0-G3	175	15840	B3-U0-G3	175
		T4W	13847	B2-U0-G3	153	14639	B2-U0-G3	161	14639	B2-U0-G3	161
		T5N	14884	B4-U0-G2	164	15736	B4-U0-G2	174	15736	B4-U0-G2	174
		T5W	14331	B4-U0-G3	158	15151	B4-U0-G3	167	15151	B4-U0-G3	167
		LCL	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
		LCR	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
		BLC	10086	B1-U0-G2	111	10663	B1-U0-G2	118	10663	B1-U0-G2	118

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Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A05	104	T2M	16226	B3-U0-G3	156	17155	B3-U0-G3	164	17155	B3-U0-G3	164
		T3M	16096	B3-U0-G3	154	17018	B3-U0-G3	163	17018	B3-U0-G3	163
		T4M	16313	B2-U0-G3	156	17247	B2-U0-G3	165	17247	B2-U0-G3	165
		T5M	16814	B4-U0-G2	161	17777	B4-U0-G2	170	17777	B4-U0-G2	170
		AFR	16806	B3-U0-G3	161	17768	B3-U0-G3	170	17768	B3-U0-G3	170
		T4W	15532	B3-U0-G3	149	16421	B3-U0-G3	157	16421	B3-U0-G3	157
		T5N	16696	B4-U0-G2	160	17652	B4-U0-G2	169	17652	B4-U0-G2	169
		T5W	16075	B4-U0-G3	154	16995	B4-U0-G3	163	16995	B4-U0-G3	163
		LCL	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
		LCR	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
		BLC	11314	B1-U0-G2	108	11961	B1-U0-G2	115	11961	B1-U0-G2	115
A06	122	T2M	18441	B3-U0-G3	151	19496	B3-U0-G3	160	19496	B3-U0-G3	160
		T3M	18294	B3-U0-G3	150	19341	B3-U0-G3	158	19341	B3-U0-G3	158
		T4M	18540	B3-U0-G3	152	19601	B3-U0-G3	160	19601	B3-U0-G3	160
		T5M	19110	B4-U0-G2	156	20203	B4-U0-G2	165	20203	B4-U0-G2	165
		AFR	19100	B3-U0-G3	156	20193	B3-U0-G3	165	20193	B3-U0-G3	165
		T4W	17652	B3-U0-G3	144	18662	B3-U0-G3	153	18662	B3-U0-G3	153
		T5N	18975	B4-U0-G2	155	20061	B4-U0-G2	164	20061	B4-U0-G2	164
		T5W	18270	B5-U0-G3	150	19315	B5-U0-G3	158	19315	B5-U0-G3	158
		LCL	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
		LCR	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
		BLC	12858	B1-U0-G2	105	13594	B1-U0-G2	111	13594	B1-U0-G2	111
A07	136	T2M	16776	B3-U0-G3	123	20034	B3-U0-G3	147	21181	B3-U0-G3	156
		T3M	16642	B3-U0-G3	122	19874	B3-U0-G3	146	21012	B3-U0-G3	154
		T4M	16866	B2-U0-G3	124	20142	B3-U0-G3	148	21294	B3-U0-G3	156
		T5M	17384	B4-U0-G2	128	20761	B4-U0-G2	152	21949	B4-U0-G2	161
		AFR	17375	B3-U0-G3	128	20750	B3-U0-G3	152	21938	B3-U0-G3	161
		T4W	16058	B3-U0-G3	118	19178	B3-U0-G3	141	20275	B3-U0-G3	149
		T5N	17262	B4-U0-G2	127	20615	B4-U0-G2	151	21794	B4-U0-G2	160
		T5W	16620	B4-U0-G3	122	19848	B5-U0-G3	146	20984	B5-U0-G3	154
		LCL	9127	B1-U0-G2	67	10900	B2-U0-G2	80	11524	B2-U0-G2	85
		LCR	9127	B1-U0-G2	67	10900	B2-U0-G2	80	11524	B2-U0-G2	85
		BLC	11697	B1-U0-G2	86	13969	B1-U0-G2	103	14768	B1-U0-G2	108

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OPF-S Precision Plus Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P01	15	T2M	2691	B1-U0-G1	182	2845	B1-U0-G1	192	2845	B1-U0-G1	192
		T3M	2718	B1-U0-G1	184	2874	B1-U0-G1	194	2874	B1-U0-G1	194
		T4M	2665	B1-U0-G1	180	2817	B1-U0-G1	190	2817	B1-U0-G1	190
		T5M	2610	B2-U0-G1	176	2759	B2-U0-G1	186	2759	B2-U0-G1	186
P02	23	T2M	4022	B1-U0-G1	178	4252	B1-U0-G1	189	4252	B1-U0-G1	189
		T3M	4062	B1-U0-G1	180	4295	B1-U0-G1	191	4295	B1-U0-G1	191
		T4M	3983	B1-U0-G1	177	4211	B1-U0-G1	187	4211	B1-U0-G1	187
		T5M	3900	B2-U0-G1	173	4124	B2-U0-G1	183	4124	B2-U0-G1	183
P03	38	T2M	6465	B2-U0-G2	169	6835	B2-U0-G2	179	6835	B2-U0-G2	179
		T3M	6530	B2-U0-G2	171	6904	B2-U0-G2	181	6904	B2-U0-G2	181
		T4M	6402	B1-U0-G2	168	6768	B1-U0-G2	177	6768	B1-U0-G2	177
		T5M	6269	B3-U0-G2	164	6629	B3-U0-G2	174	6629	B3-U0-G2	174
P04	53	T2M	8759	B2-U0-G2	165	9261	B2-U0-G2	174	9261	B2-U0-G2	174
		T3M	8848	B2-U0-G2	166	9355	B2-U0-G2	176	9355	B2-U0-G2	176
		T4M	8674	B2-U0-G2	163	9171	B2-U0-G2	172	9171	B2-U0-G2	172
		T5M	8495	B3-U0-G2	160	8982	B3-U0-G2	169	8982	B3-U0-G2	169
P05	66	T2M	11253	B2-U0-G2	172	11898	B2-U0-G2	182	11898	B2-U0-G2	182
		T3M	11366	B3-U0-G3	173	12018	B3-U0-G3	183	12018	B3-U0-G3	183
		T4M	11143	B2-U0-G3	170	11782	B2-U0-G3	180	11782	B2-U0-G3	180
		T5M	10913	B3-U0-G2	167	11539	B3-U0-G2	176	11539	B3-U0-G2	176
P06	76	T2M	13987	B3-U0-G3	183	14788	B3-U0-G3	194	14788	B3-U0-G3	194
		T3M	14128	B3-U0-G3	185	14937	B3-U0-G3	196	14937	B3-U0-G3	196
		T4M	13850	B2-U0-G3	182	14644	B2-U0-G3	192	14644	B2-U0-G3	192
		T5M	13564	B4-U0-G3	178	14342	B4-U0-G3	188	14342	B4-U0-G3	188
P07	94	T2M	15850	B3-U0-G3	168	16758	B3-U0-G3	178	16758	B3-U0-G3	178
		T3M	16010	B3-U0-G3	170	16927	B3-U0-G3	180	16927	B3-U0-G3	180
		T4M	15696	B3-U0-G3	167	16595	B3-U0-G3	176	16595	B3-U0-G3	176
		T5M	15372	B4-U0-G3	163	16253	B4-U0-G3	172	16253	B4-U0-G3	172
P08	113	T2M	19800	B3-U0-G3	176	20934	B3-U0-G3	186	20934	B3-U0-G3	186
		T3M	19999	B3-U0-G3	178	21145	B3-U0-G3	188	21145	B3-U0-G3	188
		T4M	19607	B3-U0-G3	174	20730	B3-U0-G3	184	20730	B3-U0-G3	184
		T5M	19202	B4-U0-G3	171	20302	B4-U0-G3	180	20302	B4-U0-G3	180
P09	133	T2M	21655	B3-U0-G3	163	22896	B3-U0-G3	172	22896	B3-U0-G3	172
		T3M	21874	B3-U0-G3	164	23127	B3-U0-G3	174	23127	B3-U0-G3	174
		T4M	21444	B3-U0-G4	161	22673	B3-U0-G4	171	22673	B3-U0-G4	171
		T5M	21002	B4-U0-G3	158	22205	B4-U0-G3	167	22205	B4-U0-G3	167

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LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
OPF-S-PXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
OPF-S-PXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
OPF-S-PXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
OPF-S-PXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

Predicted Lumen Depreciation Data

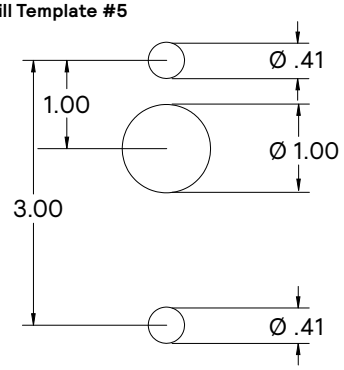
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temp°C	Lumen Package	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	A06-A07	>77,000 hours	>77,000 hours	90%
25°C	All others	>100,000 hours	>100,000 hours	96%

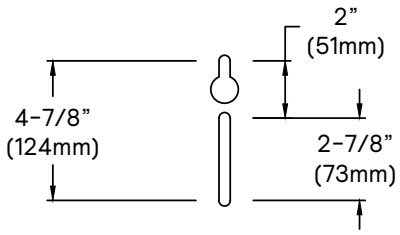
Dimensions

Standard Drill Pattern

Drill Template #5



Standard Arm Mounting Hole Pattern



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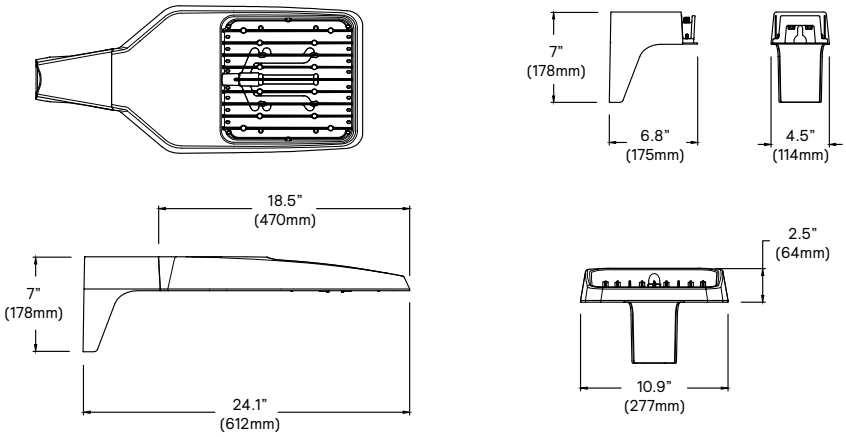
Dimensions

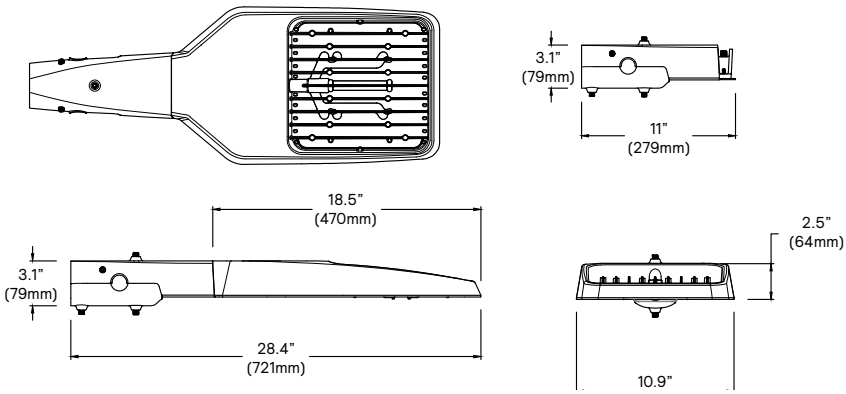
OptiForm Standard Arm

Weight: 11 lb (5.0 kg)
EPA: 0.2 ft² (0.018 m²)



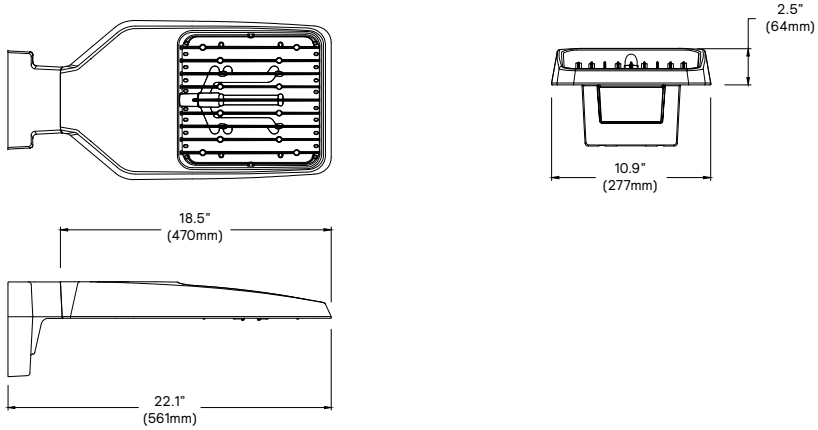
OptiForm Mast Arm

Weight: 12.6 lb (5.7 kg)

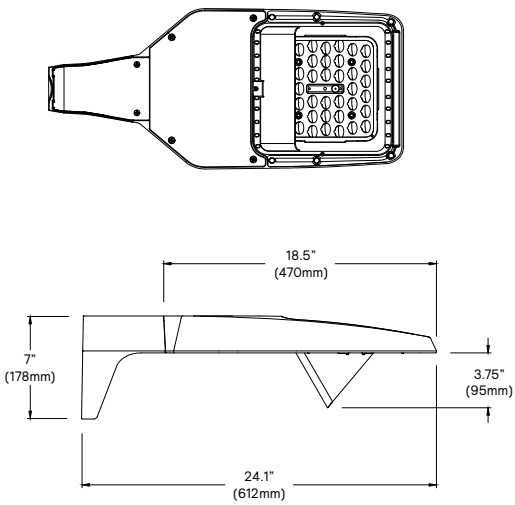


OptiForm Wall Mount

Weight: 11.5 lb (5.2 kg)



OptiForm External Housing Shield



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Site & area luminaire

Specifications

Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detatchable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1. OptiForm carries and impact rating of IK08.

Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 182 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Site and Area optical distributions include Types 2 Medium, 3 Medium, 4 Medium, 4 Wide, 5 Narrow, 5 Medium, 5 Wide, and Auto Front Row. LEED Corner Left, LEED Corner Right, and Backlight Control distributions also available to provide excellent cutoff to meet the most stringent requirements at property lines. Optional internal shields mount to LED optics and are available with Type 2M, 3M, and 4M distributions. Types 2M and 3M can be rotated at 90° or 270° when specified, and are factory set only. Site and Area optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Precision Plus optical distributions include Types 2, 3, 4 and 5 and are designed to illuminate pedestrian scale applications by providing lower glare, while still achieving desired distribution, optimized spacing, and excellent uniformity. Optics are made of optical grade polymer refractor lenses and shall be performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accomodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

Control options

Dimming Leads Externally Accessible (DLEA): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	**6**	80%
2	50%	**7**	85%
3	55%	**8**	90%
4	65%	**9**	95%
5	75%	**10**	100%

Note: Typical value accuracy +/- 5%

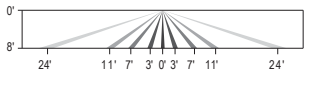
Motion response options

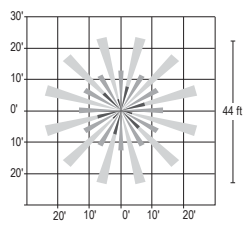
Bi-Level Infrared Motion Response (BL50): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (L2): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 is designed for mounting heights 8' to 15'. Lens #3 is designed for higher mounting heights up to 20' with a 40' diameter coverage area.
See charts for approximate detection patterns:

Luminaire with #2 lens





OPF-S OptiForm small

Site & area luminaire

Specifications (cont'd)

Electrical

Twist-Lock Receptacle (TR5/TR7): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

OptiForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

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Motive Area Light

Spec Sheet | AJ500

Motive is a sophisticated family of lights that blurs the line between indoor and outdoor lighting to create out-of-the-ordinary settings. Designed by Justin Champaign, Motive celebrates the beauty of illumination and its interaction with architecture, objects, and space. The luminaires' neutral sculptural form address an array of applications for buildings and grounds, pathways, social spaces, and high-profile areas such as art installations and entrances.

Housing & Materials

A UV stable, impact modified diffused acrylic lens seals to the cast aluminum round luminaire housing. Luminaire mounts to a tenon on the top of pole and is secured with three stainless steel set screws. Top cover is secured by three magni-coated cap screws on top of the luminaire.

Electrical

Internally mounted surge protected 120V through 277V 50/60Hz electronic driver, 0-10V dimming. -40°C start temperature. Available with optional ANSI C136.41 twist lock receptacle Motive area light ships prewired.

Light Engine

Cast aluminum light cartridge with high powered LEDs mounted to a RoHS compliant circuit board delivers indirect lighting in conjunction with the spun aluminum reflector (not available on Lambertian). Replaceable cartridge provides ease of installation and serviceability. Available in 2700K, 3000K, 3500K, and 4000K. >80 CRI across all available color temperatures.

Distributions

Lambertian TIV TV

Warranty

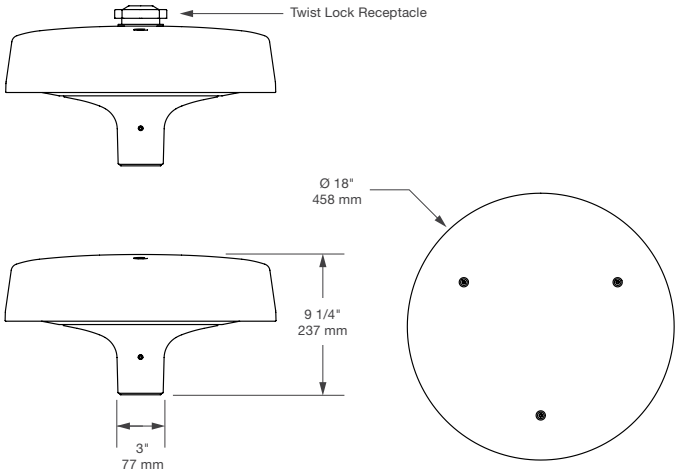
LED lighting products are warranted for six years.

Certification

UL Listed for Wet Location, CE, International Dark Sky Approved, Buy America Compliant, RoHS Compliant

Designed by Justin Champaign

Click here for patent information related to this product.

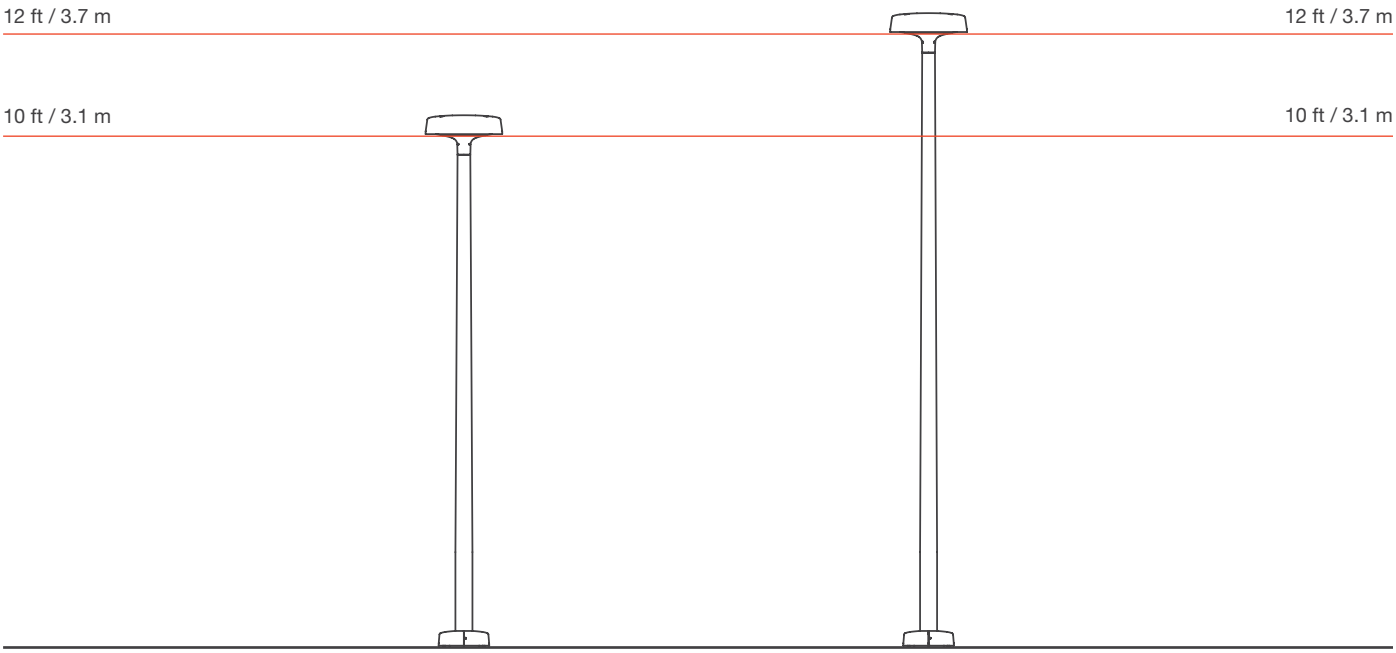


Weight: 27 lbs (luminaire only)
EPA: 0.69 ft^2

TM21 L70(10k): 60,000 hrs
Protection Class: IP66

Motive Area Light

Spec Sheet | AJ500



Pole

Round pole is tapered 4” to 3” and manufactured from seamless 6061 aluminum tubing and heat treated to produce a T6 temper. Nominal wall thickness is 0.125". Flush mounted hand hole cover includes two magni-coated fasteners. Pole is topped with standard dimension 2-3/8" dia x 4" tenon.

Base plate is cast aluminum A356 alloy heat treated to a T6 temper. Base cover is a two-piece cast aluminum cover plate. Pole is mounted at grade with galvanized steel anchor bolts. Template and anchor hardware included.

Model	Distribution Type	Drive Current	Delivered Lumens	System Wattage	BUG Rating
AJ500-T4-40F	Type IV	400mA	1362	16.0	B1-U0-G1
AJ500-T4-60F	Type IV	600mA	1973	24.1	B1-U0-G1
AJ500-T5-80F	Type V	800mA	2761	31.7	B2-U0-G1
AJ500-T5-120F	Type V	1200mA	3987	47.9	B2-U0-G1
AJ500-LB-80F	Lambertian	800mA	2487	31.7	B1-U0-G1

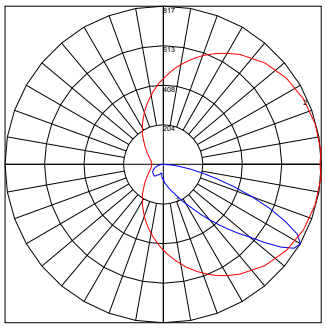
This data is subject to change.

Motive Area Light

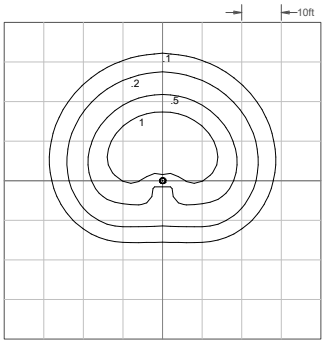
Spec Sheet | AJ500

landscapeforms

AJ500-T4-40F

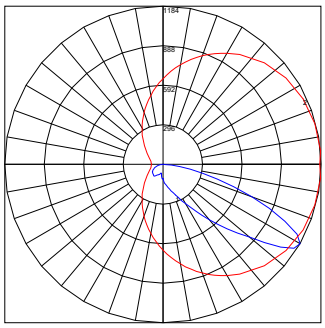


Maximum Candela=816.891
Located at Horizontal Angle=5,
Vertical Angle=6

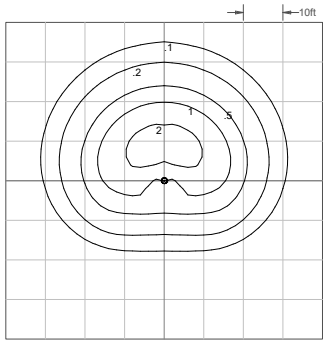


Mounting Height:10ft

AJ500-T4-60F

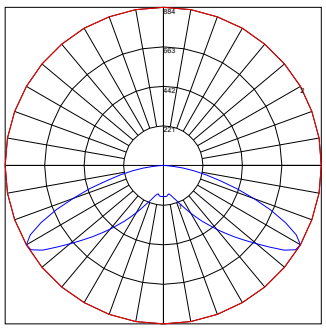


Maximum Candela=1183.9
Located at Horizontal Angle=5,
Vertical Angle=60

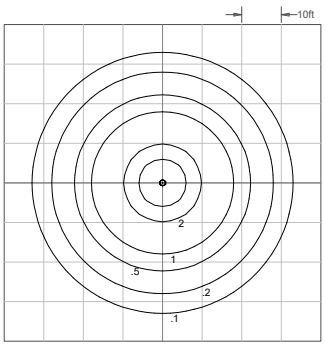


Mounting Height:10ft

AJ500-T5-80F

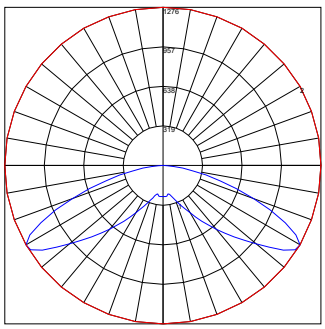


Maximum Candela=884.2
Located at Horizontal Angle=0,
Vertical Angle=60

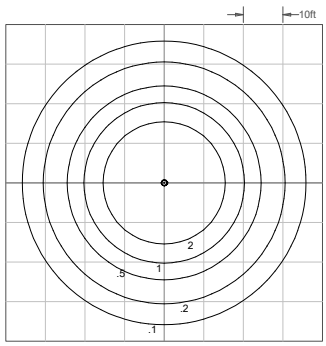


Mounting Height:10ft

AJ500-T5-120F

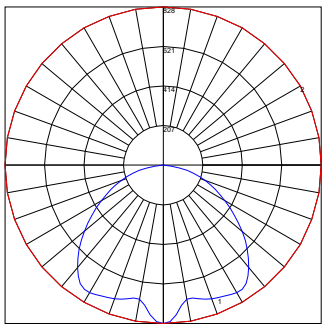


Maximum Candela=1276.4
Located at Horizontal Angle=0,
Vertical Angle=60

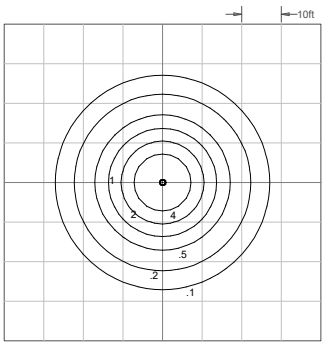


Mounting Height:10ft

AJ500-LB-80F



Maximum Candela=828.2
Located at Horizontal Angle=0,
Vertical Angle=0



Mounting Height:10ft

Motive Area Light

Spec Sheet | AJ500

landscapeforms

Luminaire

Product	Distribution & Drive Current *	Color Temperature **	Input Voltage	Connection	Twist Lock
AJ500 *(Motive Area Light)*	T4-40F *(Type IV, 400mA)*	27K *(2700K)*	UV1 *(100V277V, 50/60 Hz)*	P2 *(Tenon Mount)*	NTW *(No Twist Lock)*
	T4-60F *(Type IV, 600mA)*	30K *(3000K)*			TW1 *(7-pin Twist Lock)*
	T5-80F *(Type V, 800mA)*	35K *(3500K)*			
	T5-120F *(Type V, 1200mA)*	40K *(4000K)*			
	LB-80F *(Lambertian, 800mA)*				

Example: AJ500 – T4 – 40F – 27K – UV1 – P2 – TW1 – Powdercoat
* Type 4 and type 5 available with a diffused lens only; lambertian available with a clear lens only.
** For Dark Sky certification, 3000k or warmer must be selected.

Pole

Lens Height	Pole Part Number	Description	Wall Thickness	Pole Weight
10 ft *(3.1m)*	AJ550-10-01	4" *(101.6mm)* to 3" *(76.2mm)* Tapered Aluminum Pole	0.125" *(3.2mm)*	25.5 lbs
12 ft *(3.7m)*	AJ550-12-01	4" *(101.6mm)* to 3" *(76.2mm)* Tapered Aluminum Pole	0.125" *(3.2mm)*	28.6 lbs

Example: AJ550-12-01

Notes:

Motive Area Light

landscapeforms

Material / Colors Sheet | AJ500

Vivid Series - Powdercoated Metal* (Fine Texture)

CLY (Clay)

LMN (Lemon)

MNG (Mango)

CHL (Chili)

APR (Loll Apple Red)

LFG (Loll Leaf Green)

MSS (Moss)

FOR (Forest)

NVY (Loll Navy Blue)

Neutral Series - Powdercoated Metal*

SIL (Silver Metallic)

MER (Mercury Metallic)

STL (Steel Metallic)

BRZ (Bronze Metallic)

TNM (Titanium Metallic)

BLK (Gloss Black)

WHT (Gloss White)

Architectural Series - Powdercoated Metal* (Fine Texture)

FOG (Fog)

OBD (Obsidian)

MBK (Matte Black)

TER (Terra)

NMG (Nutmeg)

ONX (Onyx)

SAG (Sage)

BLA (Blue Ash)

DSK (Dusk)

Motive Area Light

Material / Colors Sheet | AJ500

landscapeforms

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

* All colors and patterns shown are approximate and may vary from sample and final.

Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.
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GARDCO

Site and Area

OptiForm

OPF-S Small

Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

example: OPF-S-A01-840-T4M-AR1-120-BL50-L3-BZ

Luminaire

OPF-S

OptiForm Small Area

Configuration (nom. lumens)

Site and Area

A01	7,000 lumens
A02	9,000 lumens
A03	11,000 lumens
A04	15,000 lumens
A05	17,000 lumens
A06	19,000 lumens
A07	20,000 lumens

Precision Plus[16] (T2M, T3M, T4M, T5M only)

P01	2,500 lumens
P02	4,000 lumens
P03	6,500 lumens
P04	9,000 lumens
P05	11,500 lumens
P06	14,000 lumens
P07	16,500 lumens
P08	19,000 lumens
P09	22,000 lumens

Color Temperature

827[1]	80CRI 2700K
830	80CRI 3000K
840	80CRI 4000K
727[1]	70CRI 2700K
730	70CRI 3000K
740	70CRI 4000K
750	70CRI 5000K

Distribution

AFR	Autofront row	**LCL**	LEED corner optic left
T2M	Type 2 medium	**LCR**	LEED corner optic right
T3M	Type 3 medium	**BLC**	Back light control
T4M	Type 4 medium	**2RL**	Type 2 rotated left 90°
T4W	Type 4 wide	**2RR**	Type 2 rotated right 270°
T5N	Type 5 narrow	**3RL**	Type 3 rotated left 90°
T5M	Type 5 medium	**3RR**	Type 3 rotated right 270°
T5W	Type 5 wide	**4RL**[1]	Type 4 rotated left 90°
		4RR[1]	Type 4 rotated right 270°

Mounting

AR1[2,17]	Arm mount (standard)
MAR[3]	Mast arm
WAL	Wall mount
MOS[4]	Mounting ordered separately

Voltage

120	120V
208	208V
240	240V
277	277V
347	347V
480	480V
UNV	120-277V
HVU[16]	347-480V

Dimming Controls

The following options include 0-10V Driver

none	0-10V dimming driver
DLEA[5,10]	Dimming leads externally accessible (controls by others)
FAWS[5,6,10]	Field adjustable wattage selector
BL50[5,7,10]	Bi-level with motion sensor

The following options include SR/DALI Driver

WIAP[5,8,13]	Wireless Interact (includes SR drive and SR receptacle)
SRDR[5,8,13]	SR driver connected to Zhaga socket (D4i)

DynaDimmer: Automatic Profile Dimming

CS50[5,13]	Security 50% dimming, 7 hours
CM50[5,13]	Median 50% dimming, 8 hours
CS30[5,13]	Security 30% dimming, 7 hours
CM30[5,13]	Median 30% dimming, 8 hours

Sensing

L2	PIR sensor, #2 lens (Required if BL50 is selected)

WIAP sensor options

LB	Low (7'-15' mounting height) sensor, black color housing, wireless Interact, integral
LW	Low (7'-15' mounting height) sensor, white color housing
HB	High (15'-40' mounting height) sensor, black color housing
HW	High (15'-40' mounting height) sensor, white color housing

Options (electrical, mechanical, etc)

None	Surge protector 10kV/10kA standard
SP2	Surge protector 20kV/10kA (option)
FS1[11]	Single fuse (120, 277, or 347VAC)
FS2[11]	Double fuse (208, 240, or 480V)
PCB[11,12]	Photocontrol button connected to 0-10V driver
TR5	NEMA Twist-lock 5-pin receptacle connected to 0-10V driver
TR7[13]	7-pin twist lock receptacle connected to D4i compliant driver
TLP[11,13]	7-pin twist lock receptacle connected to D4i compliant driver w/ 3-pin photocell
EHS	Housing machined to accept external house side shield for field install. Must be combined with OPF-S-EHS-1 accessory.
BAC[1,18]	Meets the requirements of the Buy American Act of 1933 (BAA)

Emergency

EM[12,14,15]	Emergency Battery Pack (0-40 °C) Available with precision plus optics P01-P03 only

Finish

Standard textured finish

BK	Black
WH	White
BZ	Bronze
DG	Dark Gray
MG	Medium Gray

Customer specified

OC	Special optional color or RAL, consult factory
SC	Special color (must supply color chip, requires factory quote)

1. Extended leadtime applies. Consult factory for details.
2. Mounts to a square pole with knockout for 4-5" OD round pole.
3. Mounts to a horizontal 2-3/8" OD x 5" Long tenon.
4. Must be ordered with mounting accessory. Photocell option (TR7) must be selected with mounting accessory. See Page 2 for options.
5. Not available with other dimming control options (mutually exclusive).
6. Not available with motion sensor (physical restriction).
7. Must be specified with a motion sensor lens (L2).
8. Not available with PCB, TR5.
9. Must be specified with a motion sensor LW, LB.
10. Not available with TR7, TLP.
11. Must specify input voltage.
12. Not available in HVU [347-480V].
13. UNV [120-277V] only available for lumen packages P03-P09. HVU [347-480V] only available for lumen packages P06-P09 & A04-A07.
14. Not available for lumen packages P04-P09.
15. Not available with Dynadimmer, SRDR, FAWS, FS1, FS2, DLEA, BL50 (physical restriction).
16. Precision Plus Optics (P01-P09) available only with T2M, T3M, T4M, and T5M optical distributions and are non-rotatable.
17. OPF-RMB accessory recommended for retrofit applications.
18. Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

OPF-S OptiForm small

Site & area luminaire

Shielding Accessory Kits (order separately)

One shield kit per luminaire

OPF-S-EHS-1*	External house side shield (field installed)
OPF-S-HIS-1**	Internal house side shields. For Area optic types T2M, T3M, and T5N.
OPF-S-HIS-T4-1**	Internal house side shield for Area optic types T4M and T4W, qty 1.
OPF-S-HIS-5M/5W-1**	Internal house side shield for Area optic types T5M and T5W. qty 1

*Must select EHS option on luminiare options section

**Not available for Precision Plus (P01-P09)

Luminaire Accessories (order separately)

Pole Mount Fusing	
FP1	Pole mount single fuse (120V, 277V, or 347V)
FP2	Pole mount double fuse (208V, 240V, or 480V)
FP3	Pole mount double fuse canadian double pull (208V, 240V, or 480V)
Photocell Accessories	
P400S	Shorting cap

Mountings (boxed and shipped separately)

Must choose Mounting Ordered Separately (MOS) selection for mounting option of luminaire. Useful for attachment of arm to pole prior to luminaire installation.

Standard Arm	
OPF-AR1-(F)[2,17]	Standard arm mount
OPF-AR1-TR7-(F)[2,13,17]	Mast arm mount with 7-pin (TR7) receptacle
Wall Mount	
OPF-WAL-(F)	Wall mount bracket
OPF-WAL-TR7-(F)[13]	Wall mount with 7-pin (TR7) receptacle
Mast Arm	
OPF-MAR-(F)[3]	Mast arm mount
OPF-MAR-TR7-(F)[3,13]	Mast arm mount with 7-pin (TR7) receptacle

Mounting Accessories

OPF-RMB	Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications.
OPF-RPA	Round Pole Adapter. Fits to 3"- 3.9" O.D. pole. Painted black.

Pole Top Fitters

PTF2 - Pole top fitter fits 2 3/8 - 2 1/2" OD x 4" depth tenon	
PTF2-1-90-(F)	1 luminiare at 90°
PTF2-2-90-(F)	2 luminiares at 90°
PTF2-3-90-(F)	3 luminiares at 90°
PTF2-4-90-(F)	4 luminiares at 90°
PTF2-2-180-(F)	2 luminiares at 180°
PTF2-3-120-(F)	3 luminiares at 120°
PTF3 - Pole top fitter fits 3-3 1/2" OD x 6" depth tenon	
PTF3-1-90-(F)	1 luminiare at 90°
PTF3-2-90-(F)	2 luminiares at 90°
PTF3-3-90-(F)	3 luminiares at 90°
PTF3-4-90-(F)	4 luminiares at 90°
PTF3-2-180-(F)	2 luminiares at 180°
PTF3-3-120-(F)	3 luminiares at 120°

Optical Distributions

Site and Area Optics

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 4 Wide

Type 5 Narrow

Type 5 Medium

Type 5 Wide

Back Light Control

Autofront Row

LCL

LCR

Precision Plus Optics

Type 2 Medium

Type 3 Medium

Type 4 Medium

Type 5 Medium

OPF-S OptiForm small

Site & area luminaire

OPF-S Area Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	42	T2M	6991	B2-U0-G2	167	7391	B2-U0-G2	176	7391	B2-U0-G2	176
		T3M	6935	B2-U0-G2	166	7332	B2-U0-G2	175	7332	B2-U0-G2	175
		T4M	7028	B1-U0-G2	168	7431	B1-U0-G2	177	7431	B1-U0-G2	177
		T5M	7244	B3-U0-G1	173	7659	B3-U0-G1	183	7659	B3-U0-G1	183
		AFR	7241	B2-U0-G2	173	7655	B2-U0-G2	183	7655	B2-U0-G2	183
		T4W	6692	B1-U0-G2	160	7075	B1-U0-G2	169	7075	B1-U0-G2	169
		T5N	7193	B3-U0-G1	172	7605	B3-U0-G1	182	7605	B3-U0-G1	182
		T5W	6926	B3-U0-G2	165	7322	B3-U0-G2	175	7322	B3-U0-G2	175
		LCL	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
		LCR	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
		BLC	4874	B0-U0-G1	116	5153	B0-U0-G1	123	5153	B0-U0-G1	123
A02	54	T2M	8941	B2-U0-G2	165	9452	B2-U0-G2	175	9452	B2-U0-G2	175
		T3M	8869	B2-U0-G2	164	9377	B2-U0-G2	173	9377	B2-U0-G2	173
		T4M	8989	B1-U0-G2	166	9503	B1-U0-G2	176	9503	B1-U0-G2	176
		T5M	9265	B3-U0-G2	171	9795	B3-U0-G2	181	9795	B3-U0-G2	181
		AFR	9260	B2-U0-G2	171	9790	B2-U0-G2	181	9790	B2-U0-G2	181
		T4W	8558	B2-U0-G2	158	9048	B2-U0-G2	167	9048	B2-U0-G2	167
		T5N	9200	B3-U0-G1	170	9726	B3-U0-G1	180	9726	B3-U0-G1	180
		T5W	8858	B3-U0-G2	164	9365	B3-U0-G2	173	9365	B3-U0-G2	173
		LCL	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
		LCR	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
		BLC	6234	B0-U0-G2	115	6591	B0-U0-G2	122	6591	B0-U0-G2	122
A03	54	T2M	10438	B2-U0-G2	164	11035	B2-U0-G2	174	11035	B3-U0-G3	174
		T3M	10354	B2-U0-G2	163	10947	B2-U0-G2	172	10947	B2-U0-G2	172
		T4M	10494	B2-U0-G2	165	11094	B1-U0-G2	174	11094	B2-U0-G2	174
		T5M	10816	B3-U0-G2	170	11435	B3-U0-G2	180	11435	B3-U0-G2	180
		AFR	10811	B3-U0-G3	170	11429	B2-U0-G2	180	11429	B3-U0-G3	180
		T4W	9991	B2-U0-G3	157	10563	B2-U0-G2	166	10563	B2-U0-G3	166
		T5N	10740	B3-U0-G2	169	11355	B3-U0-G1	179	11355	B3-U0-G2	179
		T5W	10341	B4-U0-G2	163	10933	B3-U0-G2	172	10933	B4-U0-G2	172
		LCL	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
		LCR	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
		BLC	7278	B1-U0-G2	114	7694	B0-U0-G2	121	7694	B1-U0-G2	121
A04	91	T2M	14465	B3-U0-G3	160	15293	B3-U0-G3	169	15293	B3-U0-G3	169
		T3M	14350	B3-U0-G3	158	15171	B3-U0-G3	167	15171	B3-U0-G3	167
		T4M	14543	B2-U0-G2	160	15375	B2-U0-G2	170	15375	B2-U0-G2	170
		T5M	14990	B4-U0-G2	165	15848	B4-U0-G2	175	15848	B4-U0-G2	175
		AFR	14982	B3-U0-G3	165	15840	B3-U0-G3	175	15840	B3-U0-G3	175
		T4W	13847	B2-U0-G3	153	14639	B2-U0-G3	161	14639	B2-U0-G3	161
		T5N	14884	B4-U0-G2	164	15736	B4-U0-G2	174	15736	B4-U0-G2	174
		T5W	14331	B4-U0-G3	158	15151	B4-U0-G3	167	15151	B4-U0-G3	167
		LCL	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
		LCR	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
		BLC	10086	B1-U0-G2	111	10663	B1-U0-G2	118	10663	B1-U0-G2	118

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Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A05	104	T2M	16226	B3-U0-G3	156	17155	B3-U0-G3	164	17155	B3-U0-G3	164
		T3M	16096	B3-U0-G3	154	17018	B3-U0-G3	163	17018	B3-U0-G3	163
		T4M	16313	B2-U0-G3	156	17247	B2-U0-G3	165	17247	B2-U0-G3	165
		T5M	16814	B4-U0-G2	161	17777	B4-U0-G2	170	17777	B4-U0-G2	170
		AFR	16806	B3-U0-G3	161	17768	B3-U0-G3	170	17768	B3-U0-G3	170
		T4W	15532	B3-U0-G3	149	16421	B3-U0-G3	157	16421	B3-U0-G3	157
		T5N	16696	B4-U0-G2	160	17652	B4-U0-G2	169	17652	B4-U0-G2	169
		T5W	16075	B4-U0-G3	154	16995	B4-U0-G3	163	16995	B4-U0-G3	163
		LCL	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
		LCR	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
		BLC	11314	B1-U0-G2	108	11961	B1-U0-G2	115	11961	B1-U0-G2	115
A06	122	T2M	18441	B3-U0-G3	151	19496	B3-U0-G3	160	19496	B3-U0-G3	160
		T3M	18294	B3-U0-G3	150	19341	B3-U0-G3	158	19341	B3-U0-G3	158
		T4M	18540	B3-U0-G3	152	19601	B3-U0-G3	160	19601	B3-U0-G3	160
		T5M	19110	B4-U0-G2	156	20203	B4-U0-G2	165	20203	B4-U0-G2	165
		AFR	19100	B3-U0-G3	156	20193	B3-U0-G3	165	20193	B3-U0-G3	165
		T4W	17652	B3-U0-G3	144	18662	B3-U0-G3	153	18662	B3-U0-G3	153
		T5N	18975	B4-U0-G2	155	20061	B4-U0-G2	164	20061	B4-U0-G2	164
		T5W	18270	B5-U0-G3	150	19315	B5-U0-G3	158	19315	B5-U0-G3	158
		LCL	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
		LCR	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
		BLC	12858	B1-U0-G2	105	13594	B1-U0-G2	111	13594	B1-U0-G2	111
A07	136	T2M	16776	B3-U0-G3	123	20034	B3-U0-G3	147	21181	B3-U0-G3	156
		T3M	16642	B3-U0-G3	122	19874	B3-U0-G3	146	21012	B3-U0-G3	154
		T4M	16866	B2-U0-G3	124	20142	B3-U0-G3	148	21294	B3-U0-G3	156
		T5M	17384	B4-U0-G2	128	20761	B4-U0-G2	152	21949	B4-U0-G2	161
		AFR	17375	B3-U0-G3	128	20750	B3-U0-G3	152	21938	B3-U0-G3	161
		T4W	16058	B3-U0-G3	118	19178	B3-U0-G3	141	20275	B3-U0-G3	149
		T5N	17262	B4-U0-G2	127	20615	B4-U0-G2	151	21794	B4-U0-G2	160
		T5W	16620	B4-U0-G3	122	19848	B5-U0-G3	146	20984	B5-U0-G3	154
		LCL	9127	B1-U0-G2	67	10900	B2-U0-G2	80	11524	B2-U0-G2	85
		LCR	9127	B1-U0-G2	67	10900	B2-U0-G2	80	11524	B2-U0-G2	85
		BLC	11697	B1-U0-G2	86	13969	B1-U0-G2	103	14768	B1-U0-G2	108

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OPF-S Precision Plus Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI 3000K			70 CRI 4000K			70 CRI 5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P01	15	T2M	2691	B1-U0-G1	182	2845	B1-U0-G1	192	2845	B1-U0-G1	192
		T3M	2718	B1-U0-G1	184	2874	B1-U0-G1	194	2874	B1-U0-G1	194
		T4M	2665	B1-U0-G1	180	2817	B1-U0-G1	190	2817	B1-U0-G1	190
		T5M	2610	B2-U0-G1	176	2759	B2-U0-G1	186	2759	B2-U0-G1	186
P02	23	T2M	4022	B1-U0-G1	178	4252	B1-U0-G1	189	4252	B1-U0-G1	189
		T3M	4062	B1-U0-G1	180	4295	B1-U0-G1	191	4295	B1-U0-G1	191
		T4M	3983	B1-U0-G1	177	4211	B1-U0-G1	187	4211	B1-U0-G1	187
		T5M	3900	B2-U0-G1	173	4124	B2-U0-G1	183	4124	B2-U0-G1	183
P03	38	T2M	6465	B2-U0-G2	169	6835	B2-U0-G2	179	6835	B2-U0-G2	179
		T3M	6530	B2-U0-G2	171	6904	B2-U0-G2	181	6904	B2-U0-G2	181
		T4M	6402	B1-U0-G2	168	6768	B1-U0-G2	177	6768	B1-U0-G2	177
		T5M	6269	B3-U0-G2	164	6629	B3-U0-G2	174	6629	B3-U0-G2	174
P04	53	T2M	8759	B2-U0-G2	165	9261	B2-U0-G2	174	9261	B2-U0-G2	174
		T3M	8848	B2-U0-G2	166	9355	B2-U0-G2	176	9355	B2-U0-G2	176
		T4M	8674	B2-U0-G2	163	9171	B2-U0-G2	172	9171	B2-U0-G2	172
		T5M	8495	B3-U0-G2	160	8982	B3-U0-G2	169	8982	B3-U0-G2	169
P05	66	T2M	11253	B2-U0-G2	172	11898	B2-U0-G2	182	11898	B2-U0-G2	182
		T3M	11366	B3-U0-G3	173	12018	B3-U0-G3	183	12018	B3-U0-G3	183
		T4M	11143	B2-U0-G3	170	11782	B2-U0-G3	180	11782	B2-U0-G3	180
		T5M	10913	B3-U0-G2	167	11539	B3-U0-G2	176	11539	B3-U0-G2	176
P06	76	T2M	13987	B3-U0-G3	183	14788	B3-U0-G3	194	14788	B3-U0-G3	194
		T3M	14128	B3-U0-G3	185	14937	B3-U0-G3	196	14937	B3-U0-G3	196
		T4M	13850	B2-U0-G3	182	14644	B2-U0-G3	192	14644	B2-U0-G3	192
		T5M	13564	B4-U0-G3	178	14342	B4-U0-G3	188	14342	B4-U0-G3	188
P07	94	T2M	15850	B3-U0-G3	168	16758	B3-U0-G3	178	16758	B3-U0-G3	178
		T3M	16010	B3-U0-G3	170	16927	B3-U0-G3	180	16927	B3-U0-G3	180
		T4M	15696	B3-U0-G3	167	16595	B3-U0-G3	176	16595	B3-U0-G3	176
		T5M	15372	B4-U0-G3	163	16253	B4-U0-G3	172	16253	B4-U0-G3	172
P08	113	T2M	19800	B3-U0-G3	176	20934	B3-U0-G3	186	20934	B3-U0-G3	186
		T3M	19999	B3-U0-G3	178	21145	B3-U0-G3	188	21145	B3-U0-G3	188
		T4M	19607	B3-U0-G3	174	20730	B3-U0-G3	184	20730	B3-U0-G3	184
		T5M	19202	B4-U0-G3	171	20302	B4-U0-G3	180	20302	B4-U0-G3	180
P09	133	T2M	21655	B3-U0-G3	163	22896	B3-U0-G3	172	22896	B3-U0-G3	172
		T3M	21874	B3-U0-G3	164	23127	B3-U0-G3	174	23127	B3-U0-G3	174
		T4M	21444	B3-U0-G4	161	22673	B3-U0-G4	171	22673	B3-U0-G4	171
		T5M	21002	B4-U0-G3	158	22205	B4-U0-G3	167	22205	B4-U0-G3	167

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LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
OPF-S-PXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
OPF-S-PXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
OPF-S-PXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
OPF-S-PXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

Predicted Lumen Depreciation Data

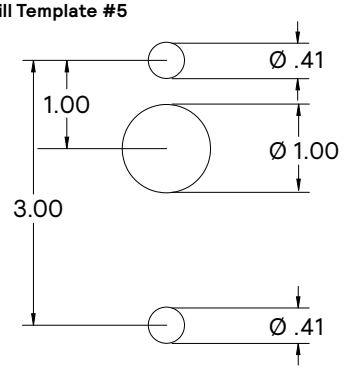
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temp°C	Lumen Package	Calculated L_{70} Hours	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	A06-A07	>77,000 hours	>77,000 hours	90%
25°C	All others	>100,000 hours	>100,000 hours	96%

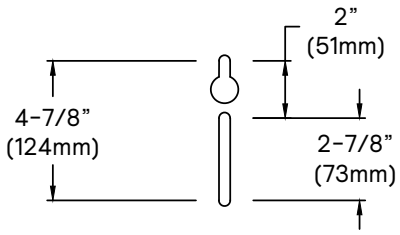
Dimensions

Standard Drill Pattern

Drill Template #5



Standard Arm Mounting Hole Pattern



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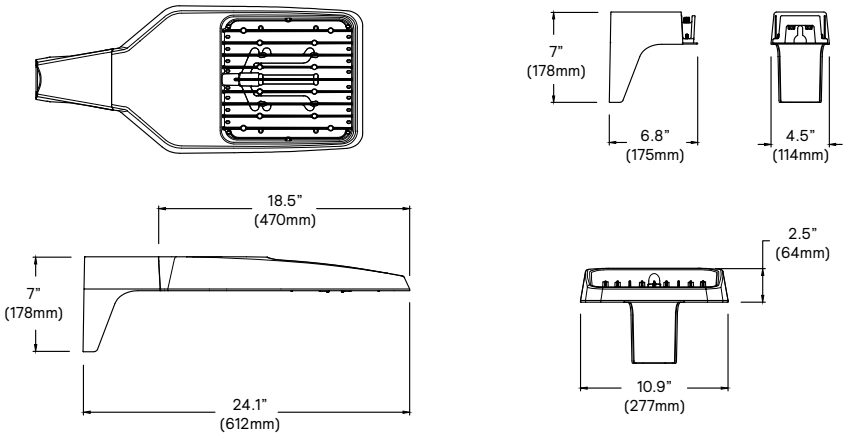
Dimensions

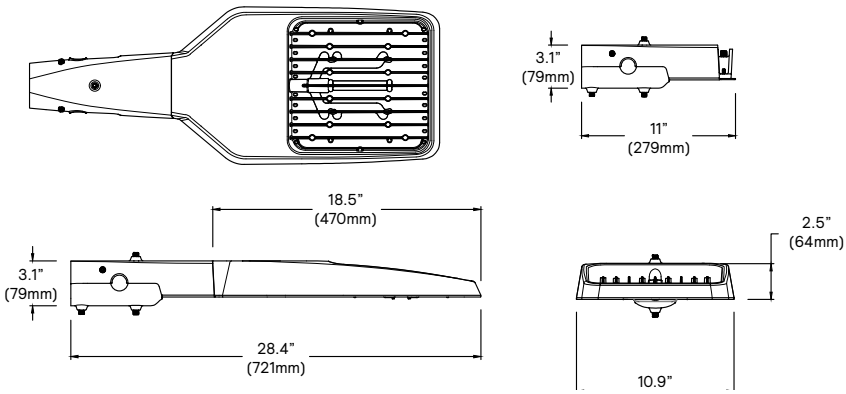
OptiForm Standard Arm

Weight: 11 lb (5.0 kg)
EPA: 0.2 ft² (0.018 m²)



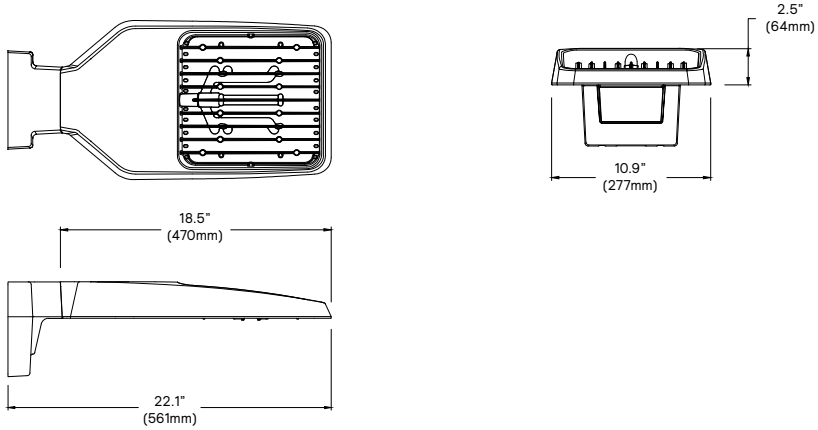
OptiForm Mast Arm

Weight: 12.6 lb (5.7 kg)

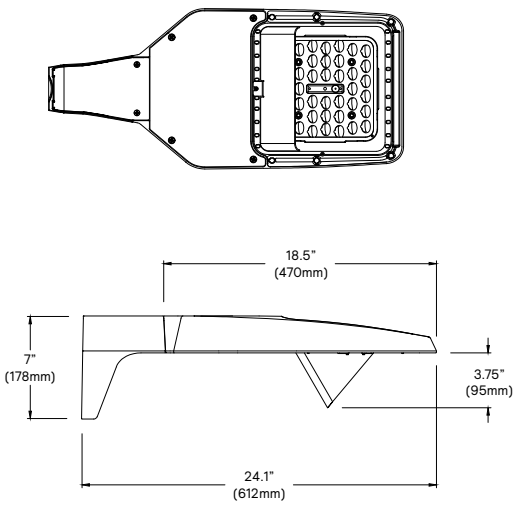


OptiForm Wall Mount

Weight: 11.5 lb (5.2 kg)



OptiForm External Housing Shield



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Site & area luminaire

Specifications

Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detatchable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1. OptiForm carries and impact rating of IK08.

Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 182 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Site and Area optical distributions include Types 2 Medium, 3 Medium, 4 Medium, 4 Wide, 5 Narrow, 5 Medium, 5 Wide, and Auto Front Row. LEED Corner Left, LEED Corner Right, and Backlight Control distributions also available to provide excellent cutoff to meet the most stringent requirements at property lines. Optional internal shields mount to LED optics and are available with Type 2M, 3M, and 4M distributions. Types 2M and 3M can be rotated at 90° or 270° when specified, and are factory set only. Site and Area optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Precision Plus optical distributions include Types 2, 3, 4 and 5 and are designed to illuminate pedestrian scale applications by providing lower glare, while still achieving desired distribution, optimized spacing, and excellent uniformity. Optics are made of optical grade polymer refractor lenses and shall be performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accomodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

Control options

Dimming Leads Externally Accessible (DLEA): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	**6**	80%
2	50%	**7**	85%
3	55%	**8**	90%
4	65%	**9**	95%
5	75%	**10**	100%

Note: Typical value accuracy +/- 5%

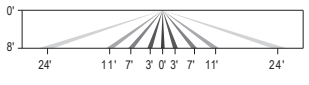
Motion response options

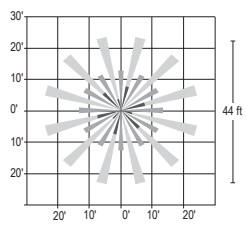
Bi-Level Infrared Motion Response (BL50): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (L2): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 is designed for mounting heights 8' to 15'. Lens #3 is designed for higher mounting heights up to 20' with a 40' diameter coverage area.
See charts for approximate detection patterns:

Luminaire with #2 lens





OPF-S OptiForm small

Site & area luminaire

Specifications (cont'd)

Electrical

Twist-Lock Receptacle (TR5/TR7): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

OptiForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

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GARDCO

Wall Mount

PureForm

LED wall sconce

Gardco PureForm LED wall sconce PWS with precision and comfort optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 30,000 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

Example: PWS-P-A02-740-4-UNV-DALI-WIAPLW-DG

Prefix	Catalog Code	Lumens Selection	CCT/CRI	Distribution	Shielding	Voltage
PWS PureForm wall sconce	**P**[1] Precision optics	**2 boards** / **4 boards** **A01** 2000 / **A07** 14000 **A02** 4000 / **A08** 16000 **A03** 6000 / **A09** 18000 **A04** 8000 / **A10** 20000 **A05** 10000 / **A11** 22000 **A06** 12000 / **A12** 26000 **A13** 30000	**730** 70CRI, 3000K **740** 70CRI, 4000K **750** 70CRI, 5000K **830** 80CRI, 3000K **840** 80CRI, 4000K **827**[3] 80CRI, 2700K (ETOr)	**2** Precision optic type 2 **3** Precision optic type 3 **4** Precision optic type 4 **BLC**[3] Back light control (ETOr)	**None** – **EHS** External house side shield, black (Housing machined to accept external house side shield for field install)	**120** 120V **208** 208V **240** 240V **277** 277V **UNV** 120-277V **347** 347V **480** 480V **HVU** 347-480V
	C[2] Comfort optics	**A01** 2000 / **A04** 8000 **A02** 4000 / **A05** 10000 **A03** 6000	**830** 80CRI, 3000K **840** 80CRI, 4000K **750** 70CRI, 5000K (ETOr) **827**[3] 80CRI, 2700K (ETOr) **Amber**[3] Direct Amber FWC (ETOr)	**2** Comfort optic type 2 **3** Comfort optic type 3 **4** Comfort optic type 4		

Driver type	Dimming Controls (only one may be selected)	Lighting controls	Options	Finish
0-10V (only one may be selected) **010V** 0-10V	**None** – **DLEA** Dimming leads externally accessible (controls by others) **FAWS**[6] Field adjustable wattage selector **BL50L2** PIR motion response dim to 50% L2 lens **(precision only)** **BL50L3** PIR motion response dim to 50% L3 lens **(precision only)** **BL50MW**[3] Microwave motion sensor factory set at 50% dimming **(comfort only)**	**None** – **PCB**[5] Photocontrol button (only available in 120-277V)	**None** – **Emergency (only available in UNV)** **EM** Emergency battery backup (0°C to +40°C/32°F to +104°F) **EMC** Emergency battery pack, cold rated (-20°C to +40°C/-4°F to +104°F) **ER100**[7] UL924 Listed Emergency relay **(only available in precision and DALI)** **Fusing** **F1**[5] Single Fuse (120V, 277V, or 347V) **F2**[5] Double Fuse (208V, 240V, or 480V) **F3**[5,6] Double Fuse Canadian double pole (208V, 240V, or 480V) **Surge Protection** **Blank** SP1 Surge Protector 10kV / 10kA (standard) **SP2** Surge Protector 20kV/10kA **Buy America**[3] **BAC** Meets the requirements of the Buy American Act of 1933 (BAA)	**Standard textured** **BK** Black **WH** White **BZ** Bronze **DG** Dark gray **MG** Medium gray **Customer specified** **OC** Optional color (specify optional color or RAL, contact factory) **SC** Special color (must supply color chip, requires factory quote)
DALI (only one may be selected) **DALI** SR/ DALI	**None** – **CS50** Security 50 % dimming, 7 hours **CM50** Median 50 % dimming, 8 hours **CS30** Security 30 % dimming, 7 hours **CM30** Median 30 % dimming, 8 hours **SRDR** SR driver connected to Zhaga socket D4i **WIAPLW**[4] Wireless Interact outdoor low mounting (7-15'), white housing **WIAPLB**[4] Wireless Interact outdoor low mounting (7-15'), black housing **WIAPHW**[4] Wireless Interact outdoor high mounting (15-40'), white housing **WIAPHB**[4] Wireless Interact outdoor high mounting (15-40'), black housing			

1. **Precision optics:**
   BLC only available in **A01-A06** with an alternative 40LED board
   UNV DALI only available in **A02-A13**
   HVU 0-10V only available in **A02-A13**
   HVU DALI only available in **A06-A13**
   BL50L2/L3 only available in **A01-A12**
   EM/EMC and ER100 only available in **A01-A09**
   ER100 only available with **DALI**
2. **Comfort optics:**
   Amber only available in **A01-A03**
   DALI only available in **UNV**
   BL50MW only available in **UNV (347V as ETOr)**
   WIAP/SRDR only available **A01-A03**
   EM only available in **A01-A02**
   EMC only available in **A01-A04**
3. Extended lead times apply. Contact factory for details.
4. WIAP comes standard with a Zhaga receptacle.
5. Must specify input voltage (for ref. PCB, F1, F2, F3).
6. Not available with Emergency.
7. Not compatible with CS50, CM50, CS30, CM50

BAA

DARKSKY APPROVED
Reduces light pollution
Certified by DarkSky.org
Only available in 3000K.

DLC LISTED PREMIUM

DLC LISTED

c UL us

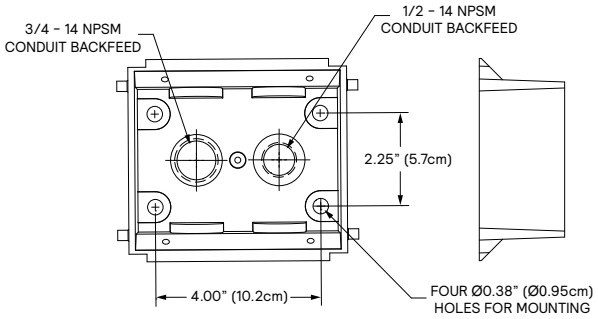
PWS PureForm LED wall sconce

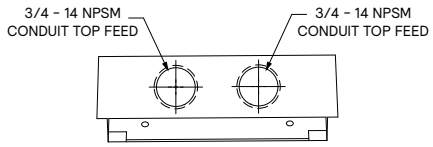
Wall mount

PureForm PWS Accessories (ordered separately)

Mounting Accessories

PWS-WS-G2	Wall mounted box for surface conduit painted black





Luminaire Weights	
PureForm LED wall sconces PWS	**Weight**
Luminare	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs

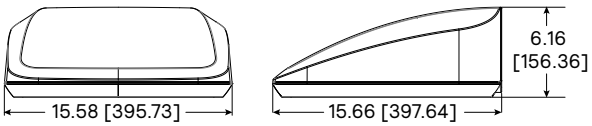
Controls Accessories

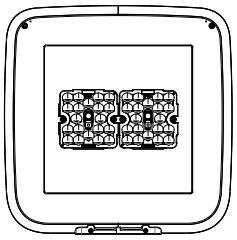
IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).
FSIR-100	Wireless remote programming tool for BL50

PWS PureForm LED wall sconce

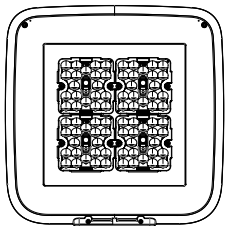
Wall mount

2-board Standard Configuration 2 board (A01–A06)

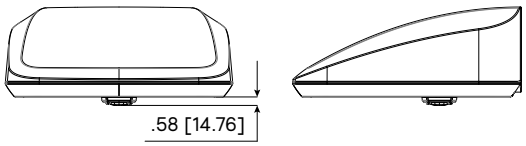


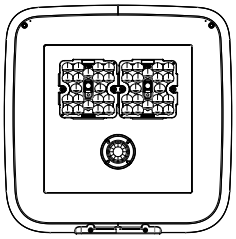


4-board Standard Configuration (A07–A13)

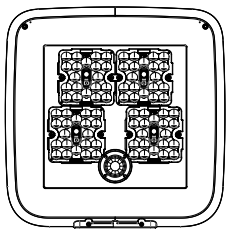


2-board with Motion Sensor

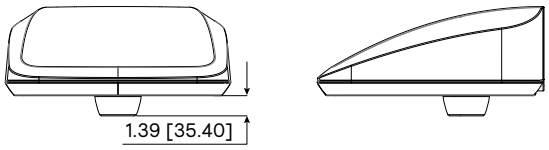


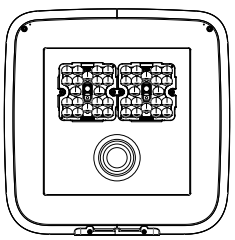


4-board with Motion Sensor

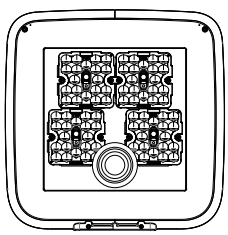


2-board with Wireless Interact Outdoor Sensor





4-board with Wireless Interact Outdoor Sensor



PWS PureForm LED wall sconce

Wall mount

PureForm PWS precision optics lumen values

Perf. Package	System Watts	Dist. Type	3000K			4000K			5000K			3000K			4000K		
			70 CRI									80 CRI					
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	15	2	2676	B1-U0-G1	183	2722	B1-U0-G1	186	2668	B1-U0-G1	183	2331	B1-U0-G1	160	2471	B1-U0-G1	169
		3	2718	B1-U0-G1	186	2765	B1-U0-G1	189	2709	B1-U0-G1	186	2367	B1-U0-G1	162	2510	B1-U0-G1	172
		4	2573	B1-U0-G1	176	2617	B1-U0-G1	179	2565	B1-U0-G1	176	2241	B1-U0-G1	154	2376	B1-U0-G1	163
A02	22	2	4071	B1-U0-G1	183	4141	B1-U0-G1	187	4058	B1-U0-G1	183	3545	B1-U0-G1	160	3759	B1-U0-G1	169
		3	4134	B1-U0-G1	186	4205	B1-U0-G1	189	4121	B1-U0-G1	186	3601	B1-U0-G1	162	3818	B1-U0-G1	172
		4	3914	B1-U0-G1	176	3981	B1-U0-G1	179	3902	B1-U0-G1	176	3409	B1-U0-G1	154	3615	B1-U0-G1	163
A03	34	2	6136	B2-U0-G2	178	6241	B2-U0-G2	181	6116	B2-U0-G2	178	5344	B1-U0-G1	155	5666	B2-U0-G2	165
		3	6231	B2-U0-G2	181	6338	B2-U0-G2	184	6212	B2-U0-G2	181	5427	B2-U0-G2	158	5755	B2-U0-G2	167
		4	5899	B1-U0-G2	172	6001	B1-U0-G2	174	5881	B1-U0-G2	171	5138	B1-U0-G1	149	5448	B1-U0-G2	158
A04	47	2	8226	B2-U0-G2	175	8368	B2-U0-G2	178	8200	B2-U0-G2	175	7164	B2-U0-G2	152	7597	B2-U0-G2	162
		3	8354	B2-U0-G2	178	8498	B2-U0-G2	181	8328	B2-U0-G2	177	7276	B2-U0-G2	155	7715	B2-U0-G2	164
		4	7909	B2-U0-G2	168	8045	B2-U0-G2	171	7884	B2-U0-G2	168	6888	B1-U0-G2	147	7304	B2-U0-G2	155
A05	60	2	10396	B2-U0-G2	174	10575	B2-U0-G2	177	10364	B2-U0-G2	173	9055	B2-U0-G2	151	9601	B2-U0-G2	160
		3	10558	B3-U0-G3	176	10740	B3-U0-G3	179	10525	B3-U0-G3	176	9196	B2-U0-G2	154	9751	B3-U0-G3	163
		4	9996	B2-U0-G2	167	10168	B2-U0-G2	170	9965	B2-U0-G2	166	8706	B2-U0-G2	145	9232	B2-U0-G2	154
A06	74	2	12543	B3-U0-G3	170	12759	B3-U0-G3	173	12504	B3-U0-G3	169	10924	B2-U0-G2	148	11584	B3-U0-G3	157
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		4	12060	B2-U0-G2	163	12268	B2-U0-G2	166	12022	B2-U0-G2	163	10504	B2-U0-G2	142	11138	B2-U0-G2	151
A07	79	2	14378	B3-U0-G3	183	14625	B3-U0-G3	187	14333	B3-U0-G3	183	12522	B3-U0-G3	160	13278	B3-U0-G3	169
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		4	13824	B2-U0-G2	176	14062	B3-U0-G3	179	13781	B2-U0-G2	176	12040	B2-U0-G2	154	12767	B2-U0-G2	163
A08	92	2	16591	B3-U0-G3	181	16876	B3-U0-G3	184	16539	B3-U0-G3	181	14449	B3-U0-G3	158	15322	B3-U0-G3	168
		3	16849	B3-U0-G3	184	17139	B3-U0-G3	187	16797	B3-U0-G3	184	14675	B3-U0-G3	160	15561	B3-U0-G3	170
		4	15952	B3-U0-G3	174	16226	B3-U0-G3	177	15902	B3-U0-G3	174	13893	B3-U0-G3	152	14732	B3-U0-G3	161
A09	103	2	18285	B3-U0-G3	178	18600	B3-U0-G3	182	18228	B3-U0-G3	178	15925	B3-U0-G3	155	16887	B3-U0-G3	165
		3	18570	B3-U0-G3	181	18890	B3-U0-G3	184	18512	B3-U0-G3	181	16173	B3-U0-G3	158	17150	B3-U0-G3	167
		4	17581	B3-U0-G3	172	17883	B3-U0-G3	175	17526	B3-U0-G3	171	15312	B3-U0-G3	149	16236	B3-U0-G3	158
A10	114	2	20123	B3-U0-G3	177	20470	B3-U0-G3	180	20060	B3-U0-G3	176	17526	B3-U0-G3	154	18585	B3-U0-G3	163
		3	20437	B3-U0-G3	180	20789	B3-U0-G3	183	20373	B3-U0-G3	179	17800	B3-U0-G3	156	18874	B3-U0-G3	166
		4	19349	B3-U0-G3	170	19682	B3-U0-G3	173	19288	B3-U0-G3	170	16852	B3-U0-G3	148	17869	B3-U0-G3	157
A11	135	2	23365	B3-U0-G3	173	23767	B3-U0-G3	176	23292	B3-U0-G3	173	20350	B3-U0-G3	151	21578	B3-U0-G3	160
		3	23729	B3-U0-G3	176	24138	B3-U0-G3	179	23655	B3-U0-G3	176	20667	B3-U0-G3	153	21915	B3-U0-G3	163
		4	22465	B3-U0-G4	167	22852	B3-U0-G4	170	22395	B3-U0-G4	166	19566	B3-U0-G3	145	20747	B3-U0-G3	154
A12	156	2	26277	B3-U0-G3	169	26729	B3-U0-G3	172	26195	B3-U0-G3	168	22886	B3-U0-G3	147	24268	B3-U0-G3	156
		3	26687	B4-U0-G4	171	27146	B4-U0-G4	174	26603	B4-U0-G4	171	23243	B3-U0-G3	149	24646	B4-U0-G4	158
		4	25265	B3-U0-G4	162	25700	B3-U0-G4	165	25186	B3-U0-G4	162	22005	B3-U0-G4	141	23333	B3-U0-G4	150
A13	190	2	30622	B4-U0-G4	161	31149	B4-U0-G4	164	30526	B4-U0-G4	161	26670	B3-U0-G3	141	28281	B4-U0-G4	149
		3	31100	B4-U0-G4	164	31635	B4-U0-G4	167	31002	B4-U0-G4	163	27086	B4-U0-G4	143	28722	B4-U0-G4	151
		4	29443	B3-U0-G4	155	29950	B3-U0-G4	158	29351	B3-U0-G4	155	25643	B3-U0-G4	135	27192	B3-U0-G4	143

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

PWS PureForm LED wall sconce

Wall mount

PureForm PWS comfort optics lumen values

Perf. Package	System Watts	Dist. Type	2700K			3000K			4000K			5000K		
			80 CRI			80 CRI			80 CRI			70 CRI		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	21	2	1969	B1-U0-G1	94	2040	B1-U0-G1	98	2122	B1-U0-G1	102	2228	B1-U0-G1	107
		3	2202	B1-U0-G1	105	2282	B1-U0-G1	109	2373	B1-U0-G1	114	2492	B1-U0-G1	119
		4	2287	B1-U0-G1	109	2370	B2-U0-G1	113	2464	B2-U0-G1	118	2588	B2-U0-G1	124
A02	30	2	2806	B1-U0-G1	94	2908	B1-U0-G1	97	3024	B1-U0-G1	101	3176	B1-U0-G1	106
		3	3139	B1-U0-G1	105	3253	B1-U0-G1	108	3383	B2-U0-G2	113	3553	B2-U0-G2	118
		4	3260	B2-U0-G1	109	3378	B2-U0-G1	113	3513	B2-U0-G1	117	3690	B2-U0-G1	123
A03	51	2	4927	B2-U0-G2	97	5106	B2-U0-G2	100	5310	B2-U0-G2	104	5576	B2-U0-G2	109
		3	5512	B2-U0-G2	108	5712	B2-U0-G2	112	5940	B2-U0-G2	116	6237	B2-U0-G2	122
		4	5724	B3-U0-G2	112	5932	B3-U0-G2	116	6169	B3-U0-G2	121	6477	B3-U0-G2	127
A04	75	2	6970	B2-U0-G2	93	7223	B3-U0-G3	96	7512	B3-U0-G3	100	7888	B3-U0-G3	105
		3	7797	B3-U0-G3	104	8080	B3-U0-G3	108	8403	B3-U0-G3	112	8823	B3-U0-G3	118
		4	8097	B3-U0-G2	108	8391	B3-U0-G2	112	8727	B3-U0-G2	117	9163	B3-U0-G2	122
A05	95	2	8545	B3-U0-G3	90	8855	B3-U0-G3	94	9209	B3-U0-G3	97	9669	B3-U0-G3	102
		3	9558	B3-U0-G3	101	9905	B3-U0-G3	105	10301	B3-U0-G3	109	10816	B3-U0-G3	114
		4	9926	B3-U0-G2	105	10287	B3-U0-G2	109	10698	B3-U0-G2	113	11233	B3-U0-G3	119

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

Lumen values for emergency mode

Perf. Package	System Watts	Dist. Type	3000K			4000K			5000K			3000K			4000K		
			70 CRI			70 CRI			70 CRI			80 CRI			80 CRI		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
PWS-P-10W20LED-XXX-EM	10	2	1911	B1-U0-G1	191	1944	B1-U0-G1	194	1905	B1-U0-G1	191	1664	B1-U0-G1	166	1765	B1-U0-G1	177
		3	1941	B1-U0-G1	194	1974	B1-U0-G1	197	1934	B1-U0-G1	193	1690	B1-U0-G1	169	1792	B1-U0-G1	179
		4	1837	B1-U0-G1	184	1869	B1-U0-G1	187	1831	B1-U0-G1	183	1600	B1-U0-G1	160	1697	B1-U0-G1	170
PWS-P-20W20LED-XXX-EMC	22	2	4071	B1-U0-G1	183	4141	B1-U0-G1	187	4058	B1-U0-G1	183	3545	B1-U0-G1	160	3759	B1-U0-G1	169
		3	4134	B1-U0-G1	186	4205	B1-U0-G1	189	4121	B1-U0-G1	186	3601	B1-U0-G1	162	3818	B1-U0-G1	172
		4	3914	B1-U0-G1	176	3981	B1-U0-G1	179	3902	B1-U0-G1	176	3409	B1-U0-G1	154	3615	B1-U0-G1	163

Predicted lumen depreciation data for precision light engine

Ambient Temperature °C	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**>102,000 hours**	**>93%**

Predicted lumen depreciation data for comfort light engine

Ambient Temperature °C	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**>42,000 hours**	**>88%**

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

PWS PureForm LED wall sconce

Wall mount

Precision optical distributions

Based on 20' mounting height

Type 2

Type 3

Type 4

BLC
(ETOr)

Comfort optical distributions

Based on 20' mounting height

Comfort Type 2

Comfort Type 3

Comfort Type 4

PWS PureForm LED wall sconce

Wall mount

Specifications

Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Light engine

Precision light engine: LED PCBA made of 20 LEDs (2 board & 4 board) populated on aluminum metal core board for optimal thermal dissipation ensuring longer LED lifespan. Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21.

Comfort light engine: Light guide technology provides low-glare, uniform illumination. Composed of LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K+/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K and Amber (>590nm) with extended lead times. Contact factory for details. LED light engine is rated IP65 in accordance to Section 9 of IEC 60598-1.

Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

Control options

0-10V dimming: Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance mounted on top of the luminaire arm. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest of 10 output positions. Consult factory for specific dimming settings for each position. Cannot be used with other control options ormotion response.

Automatic Profile Dimming (CS/CM): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Ensure the luminaire is connected to a common external timer or a photocell as the driver needs to turn OFF & ON to calibrate its internal clock.If the input power stays on permanently, the driver won't dim. Cannot be used with other dimming control options.

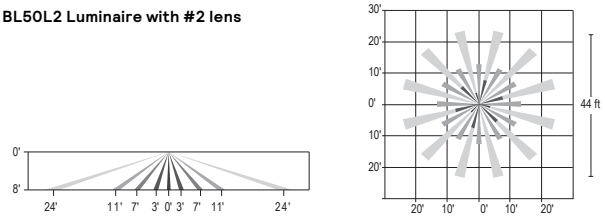
Emergency Battery Backup / Cold Rated (EM/EMC): Emergency battery pack included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. EM is suitable for use in ambient temperature conditions from 0°C (32°F) to 50°C (122°F) available on A01 to A05 and upto 40°C (104°F) available on A06 to A09 precision engine and 0°C (32°F) to 40°C (100°F) available on A01 and A02 in comfort engine only. EMC is cold weather rated for use in ambient temperature conditions from -20°C (-4°F) to 40°C (104°F) available in both precision & comfort light engine. EMC not available in A05 comfort engine. The system is designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120V-277V, or 'UNV' only.

Motion response options

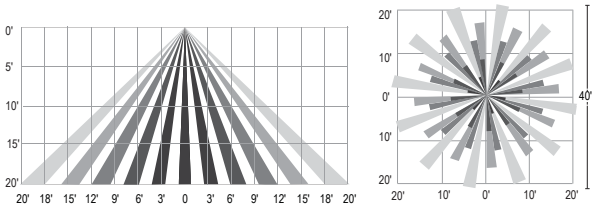
Bi-Level Infrared Motion Response (BL50): In the Precision light engine the Passive Infrared (PIR) motion response module is mounted integral to luminaire. The factory pre-programs the sensor to 50% dimming when not ordered with other control options.

Infrared Motion Response Lens (L2/L3): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (L2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (L3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

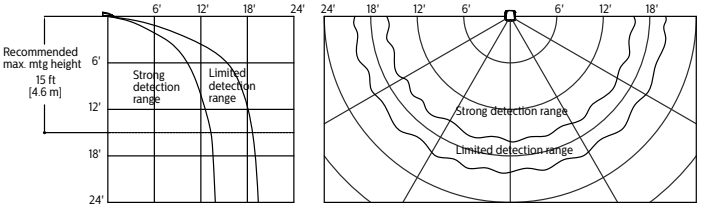
BL50L2 Luminaire with #2 lens



BL50L3 Luminaire with #3 lens



Bi-Level Infrared Motion Response (BL50MW): In the comfort light engine, the high frequency (5.8GHz +/-75MHz microwave ISM wave band with <0.5 mW transmitting power) microwave motion sensor is mounted integral to the luminaire. This bi-level motion sensor is designed to detect motion through the light engine so it can be used inside the luminaire without any protruded components allowing energy savings and meeting code requirements without compromising comfort and aesthetics. The factory pre-programs the sensor to 50% dimming when not ordered with other control options.



BL50 is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/ light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

PWS PureForm LED wall sconce

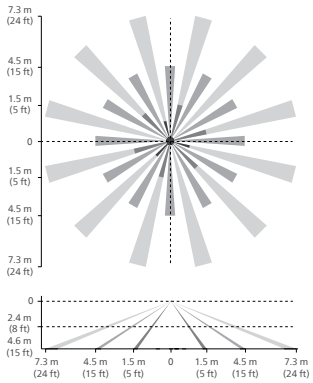
Wall mount

Specifications (cont'd)

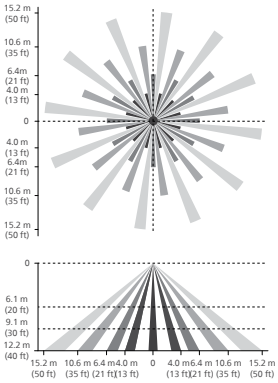
Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming - activated via the Interact App. Sensors IP66 rated.

For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

LW low sensor



HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

Electrical

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR)drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Warranty

PureForm luminaires feature a 5-year limited warranty.
See signify.com/warranties for complete details and exclusions.

Buy America Compliant

Failure to properly select the “BAC” suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the “Buy America” domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

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GARDCO

Wall Mount

PureForm

LED wall sconce

Gardco PureForm LED wall sconce PWS with precision and comfort optics offers a sleek, low profile design that will complement a range of architectural styles. PureForm wall sconce provides up to 30,000 lumens to accommodate multiple mounting heights, and is available with Type 2, 3, 4, as well as our back light control optics. A full range of control options is available for additional energy savings. Optional emergency battery backup option is available for path-of-egress and is integral to the luminaire.

Project:

Location:

Cat.No:

Type:

Lamps: Qty:

Notes:

Ordering guide

Example: PWS-P-A02-740-4-UNV-DALI-WIAPLW-DG

Prefix	Catalog Code	Lumens Selection	CCT/CRI	Distribution	Shielding	Voltage
PWS PureForm wall sconce	**P**[1] Precision optics	**2 boards** / **4 boards** **A01** 2000 / **A07** 14000 **A02** 4000 / **A08** 16000 **A03** 6000 / **A09** 18000 **A04** 8000 / **A10** 20000 **A05** 10000 / **A11** 22000 **A06** 12000 / **A12** 26000 **A13** 30000	**730** 70CRI, 3000K **740** 70CRI, 4000K **750** 70CRI, 5000K **830** 80CRI, 3000K **840** 80CRI, 4000K **827**[3] 80CRI, 2700K (ETOr)	**2** Precision optic type 2 **3** Precision optic type 3 **4** Precision optic type 4 **BLC**[3] Back light control (ETOr)	**None** – **EHS** External house side shield, black (Housing machined to accept external house side shield for field install)	**120** 120V **208** 208V **240** 240V **277** 277V **UNV** 120-277V **347** 347V **480** 480V **HVU** 347-480V
	C[2] Comfort optics	**A01** 2000 / **A04** 8000 **A02** 4000 / **A05** 10000 **A03** 6000	**830** 80CRI, 3000K **840** 80CRI, 4000K **750** 70CRI, 5000K (ETOr) **827**[3] 80CRI, 2700K (ETOr) **Amber**[3] Direct Amber FWC (ETOr)	**2** Comfort optic type 2 **3** Comfort optic type 3 **4** Comfort optic type 4		

Driver type	Dimming Controls (only one may be selected)	Lighting controls	Options	Finish
0-10V (only one may be selected) **010V** 0-10V	**None** – **DLEA** Dimming leads externally accessible (controls by others) **FAWS**[6] Field adjustable wattage selector **BL50L2** PIR motion response dim to 50% L2 lens **(precision only)** **BL50L3** PIR motion response dim to 50% L3 lens **(precision only)** **BL50MW**[3] Microwave motion sensor factory set at 50% dimming **(comfort only)**	**None** – **PCB**[5] Photocontrol button (only available in 120-277V)	**None** – **Emergency (only available in UNV)** **EM** Emergency battery backup (0°C to +40°C/32°F to +104°F) **EMC** Emergency battery pack, cold rated (-20°C to +40°C/-4°F to +104°F) **ER100**[7] UL924 Listed Emergency relay **(only available in precision and DALI)** **Fusing** **F1**[5] Single Fuse (120V, 277V, or 347V) **F2**[5] Double Fuse (208V, 240V, or 480V) **F3**[5,6] Double Fuse Canadian double pole (208V, 240V, or 480V) **Surge Protection** **Blank** SP1 Surge Protector 10kV / 10kA (standard) **SP2** Surge Protector 20kV/10kA **Buy America**[3] **BAC** Meets the requirements of the Buy American Act of 1933 (BAA)	**Standard textured** **BK** Black **WH** White **BZ** Bronze **DG** Dark gray **MG** Medium gray **Customer specified** **OC** Optional color (specify optional color or RAL, contact factory) **SC** Special color (must supply color chip, requires factory quote)
DALI (only one may be selected) **DALI** SR/ DALI	**None** – **CS50** Security 50 % dimming, 7 hours **CM50** Median 50 % dimming, 8 hours **CS30** Security 30 % dimming, 7 hours **CM30** Median 30 % dimming, 8 hours **SRDR** SR driver connected to Zhaga socket D4i **WIAPLW**[4] Wireless Interact outdoor low mounting (7-15'), white housing **WIAPLB**[4] Wireless Interact outdoor low mounting (7-15'), black housing **WIAPHW**[4] Wireless Interact outdoor high mounting (15-40'), white housing **WIAPHB**[4] Wireless Interact outdoor high mounting (15-40'), black housing			

1. **Precision optics:**
   BLC only available in **A01-A06** with an alternative 40LED board
   UNV DALI only available in **A02-A13**
   HVU 0-10V only available in **A02-A13**
   HVU DALI only available in **A06-A13**
   BL50L2/L3 only available in **A01-A12**
   EM/EMC and ER100 only available in **A01-A09**
   ER100 only available with **DALI**
2. **Comfort optics:**
   Amber only available in **A01-A03**
   DALI only available in **UNV**
   BL50MW only available in **UNV (347V as ETOr)**
   WIAP/SRDR only available **A01-A03**
   EM only available in **A01-A02**
   EMC only available in **A01-A04**
3. Extended lead times apply. Contact factory for details.
4. WIAP comes standard with a Zhaga receptacle.
5. Must specify input voltage (for ref. PCB, F1, F2, F3).
6. Not available with Emergency.
7. Not compatible with CS50, CM50, CS30, CM50

BAA

DARKSKY APPROVED
Reduces light pollution
Certified by DarkSky.org
Only available in 3000K.

DLC LISTED PREMIUM

DLC LISTED

c UL us

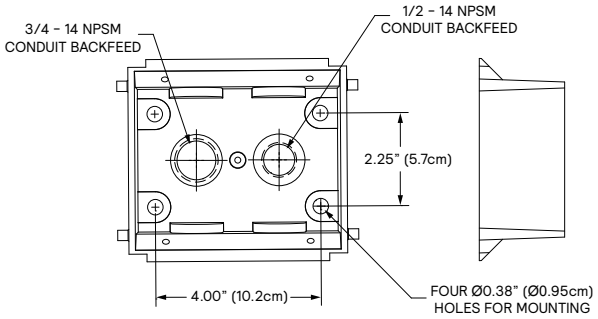
PWS PureForm LED wall sconce

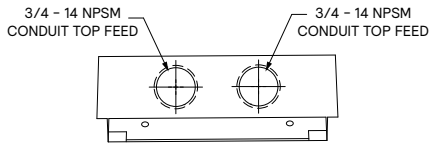
Wall mount

PureForm PWS Accessories (ordered separately)

Mounting Accessories

PWS-WS-G2	Wall mounted box for surface conduit painted black





Luminaire Weights	
PureForm LED wall sconces PWS	**Weight**
Luminare	24 lbs
Luminaire - EBPC (EM battery pack)	27 lbs

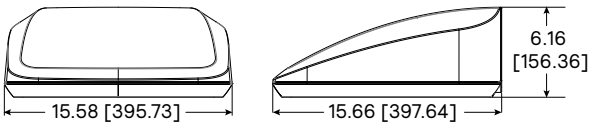
Controls Accessories

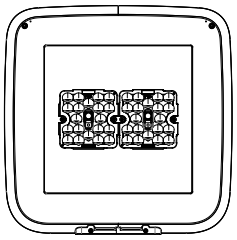
IRT9015	Handheld remote for grouping and configuration of Wireless Interact WIAP (at least 1 required per site or use the Interact Pro App).
FSIR-100	Wireless remote programming tool for BL50

PWS PureForm LED wall sconce

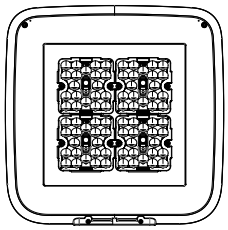
Wall mount

2-board Standard Configuration 2 board (A01–A06)

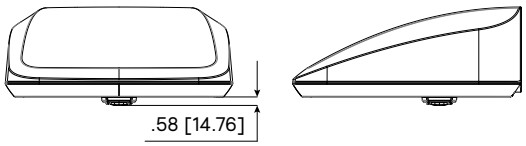


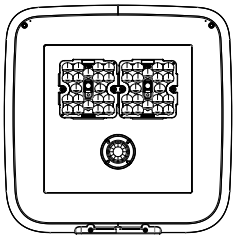


4-board Standard Configuration (A07–A13)

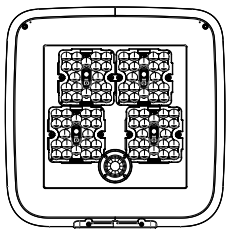


2-board with Motion Sensor

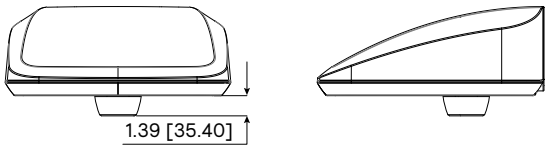


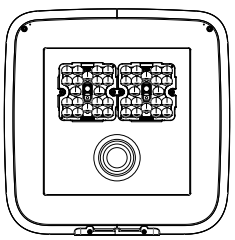


4-board with Motion Sensor

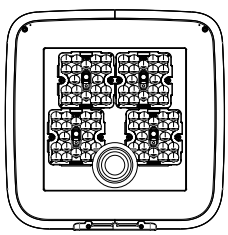


2-board with Wireless Interact Outdoor Sensor





4-board with Wireless Interact Outdoor Sensor



PWS PureForm LED wall sconce

Wall mount

PureForm PWS precision optics lumen values

Perf. Package	System Watts	Dist. Type	3000K			4000K			5000K			3000K			4000K		
			70 CRI									80 CRI					
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	15	2	2676	B1-U0-G1	183	2722	B1-U0-G1	186	2668	B1-U0-G1	183	2331	B1-U0-G1	160	2471	B1-U0-G1	169
		3	2718	B1-U0-G1	186	2765	B1-U0-G1	189	2709	B1-U0-G1	186	2367	B1-U0-G1	162	2510	B1-U0-G1	172
		4	2573	B1-U0-G1	176	2617	B1-U0-G1	179	2565	B1-U0-G1	176	2241	B1-U0-G1	154	2376	B1-U0-G1	163
A02	22	2	4071	B1-U0-G1	183	4141	B1-U0-G1	187	4058	B1-U0-G1	183	3545	B1-U0-G1	160	3759	B1-U0-G1	169
		3	4134	B1-U0-G1	186	4205	B1-U0-G1	189	4121	B1-U0-G1	186	3601	B1-U0-G1	162	3818	B1-U0-G1	172
		4	3914	B1-U0-G1	176	3981	B1-U0-G1	179	3902	B1-U0-G1	176	3409	B1-U0-G1	154	3615	B1-U0-G1	163
A03	34	2	6136	B2-U0-G2	178	6241	B2-U0-G2	181	6116	B2-U0-G2	178	5344	B1-U0-G1	155	5666	B2-U0-G2	165
		3	6231	B2-U0-G2	181	6338	B2-U0-G2	184	6212	B2-U0-G2	181	5427	B2-U0-G2	158	5755	B2-U0-G2	167
		4	5899	B1-U0-G2	172	6001	B1-U0-G2	174	5881	B1-U0-G2	171	5138	B1-U0-G1	149	5448	B1-U0-G2	158
A04	47	2	8226	B2-U0-G2	175	8368	B2-U0-G2	178	8200	B2-U0-G2	175	7164	B2-U0-G2	152	7597	B2-U0-G2	162
		3	8354	B2-U0-G2	178	8498	B2-U0-G2	181	8328	B2-U0-G2	177	7276	B2-U0-G2	155	7715	B2-U0-G2	164
		4	7909	B2-U0-G2	168	8045	B2-U0-G2	171	7884	B2-U0-G2	168	6888	B1-U0-G2	147	7304	B2-U0-G2	155
A05	60	2	10396	B2-U0-G2	174	10575	B2-U0-G2	177	10364	B2-U0-G2	173	9055	B2-U0-G2	151	9601	B2-U0-G2	160
		3	10558	B3-U0-G3	176	10740	B3-U0-G3	179	10525	B3-U0-G3	176	9196	B2-U0-G2	154	9751	B3-U0-G3	163
		4	9996	B2-U0-G2	167	10168	B2-U0-G2	170	9965	B2-U0-G2	166	8706	B2-U0-G2	145	9232	B2-U0-G2	154
A06	74	2	12543	B3-U0-G3	170	12759	B3-U0-G3	173	12504	B3-U0-G3	169	10924	B2-U0-G2	148	11584	B3-U0-G3	157
		3	12739	B3-U0-G3	172	12958	B3-U0-G3	175	12699	B3-U0-G3	172	11095	B3-U0-G3	150	11764	B3-U0-G3	159
		4	12060	B2-U0-G2	163	12268	B2-U0-G2	166	12022	B2-U0-G2	163	10504	B2-U0-G2	142	11138	B2-U0-G2	151
A07	79	2	14378	B3-U0-G3	183	14625	B3-U0-G3	187	14333	B3-U0-G3	183	12522	B3-U0-G3	160	13278	B3-U0-G3	169
		3	14602	B3-U0-G3	186	14854	B3-U0-G3	190	14556	B3-U0-G3	186	12718	B3-U0-G3	162	13486	B3-U0-G3	172
		4	13824	B2-U0-G2	176	14062	B3-U0-G3	179	13781	B2-U0-G2	176	12040	B2-U0-G2	154	12767	B2-U0-G2	163
A08	92	2	16591	B3-U0-G3	181	16876	B3-U0-G3	184	16539	B3-U0-G3	181	14449	B3-U0-G3	158	15322	B3-U0-G3	168
		3	16849	B3-U0-G3	184	17139	B3-U0-G3	187	16797	B3-U0-G3	184	14675	B3-U0-G3	160	15561	B3-U0-G3	170
		4	15952	B3-U0-G3	174	16226	B3-U0-G3	177	15902	B3-U0-G3	174	13893	B3-U0-G3	152	14732	B3-U0-G3	161
A09	103	2	18285	B3-U0-G3	178	18600	B3-U0-G3	182	18228	B3-U0-G3	178	15925	B3-U0-G3	155	16887	B3-U0-G3	165
		3	18570	B3-U0-G3	181	18890	B3-U0-G3	184	18512	B3-U0-G3	181	16173	B3-U0-G3	158	17150	B3-U0-G3	167
		4	17581	B3-U0-G3	172	17883	B3-U0-G3	175	17526	B3-U0-G3	171	15312	B3-U0-G3	149	16236	B3-U0-G3	158
A10	114	2	20123	B3-U0-G3	177	20470	B3-U0-G3	180	20060	B3-U0-G3	176	17526	B3-U0-G3	154	18585	B3-U0-G3	163
		3	20437	B3-U0-G3	180	20789	B3-U0-G3	183	20373	B3-U0-G3	179	17800	B3-U0-G3	156	18874	B3-U0-G3	166
		4	19349	B3-U0-G3	170	19682	B3-U0-G3	173	19288	B3-U0-G3	170	16852	B3-U0-G3	148	17869	B3-U0-G3	157
A11	135	2	23365	B3-U0-G3	173	23767	B3-U0-G3	176	23292	B3-U0-G3	173	20350	B3-U0-G3	151	21578	B3-U0-G3	160
		3	23729	B3-U0-G3	176	24138	B3-U0-G3	179	23655	B3-U0-G3	176	20667	B3-U0-G3	153	21915	B3-U0-G3	163
		4	22465	B3-U0-G4	167	22852	B3-U0-G4	170	22395	B3-U0-G4	166	19566	B3-U0-G3	145	20747	B3-U0-G3	154
A12	156	2	26277	B3-U0-G3	169	26729	B3-U0-G3	172	26195	B3-U0-G3	168	22886	B3-U0-G3	147	24268	B3-U0-G3	156
		3	26687	B4-U0-G4	171	27146	B4-U0-G4	174	26603	B4-U0-G4	171	23243	B3-U0-G3	149	24646	B4-U0-G4	158
		4	25265	B3-U0-G4	162	25700	B3-U0-G4	165	25186	B3-U0-G4	162	22005	B3-U0-G4	141	23333	B3-U0-G4	150
A13	190	2	30622	B4-U0-G4	161	31149	B4-U0-G4	164	30526	B4-U0-G4	161	26670	B3-U0-G3	141	28281	B4-U0-G4	149
		3	31100	B4-U0-G4	164	31635	B4-U0-G4	167	31002	B4-U0-G4	163	27086	B4-U0-G4	143	28722	B4-U0-G4	151
		4	29443	B3-U0-G4	155	29950	B3-U0-G4	158	29351	B3-U0-G4	155	25643	B3-U0-G4	135	27192	B3-U0-G4	143

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

PWS PureForm LED wall sconce

Wall mount

PureForm PWS comfort optics lumen values

Perf. Package	System Watts	Dist. Type	2700K			3000K			4000K			5000K		
			80 CRI			80 CRI			80 CRI			70 CRI		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	21	2	1969	B1-U0-G1	94	2040	B1-U0-G1	98	2122	B1-U0-G1	102	2228	B1-U0-G1	107
		3	2202	B1-U0-G1	105	2282	B1-U0-G1	109	2373	B1-U0-G1	114	2492	B1-U0-G1	119
		4	2287	B1-U0-G1	109	2370	B2-U0-G1	113	2464	B2-U0-G1	118	2588	B2-U0-G1	124
A02	30	2	2806	B1-U0-G1	94	2908	B1-U0-G1	97	3024	B1-U0-G1	101	3176	B1-U0-G1	106
		3	3139	B1-U0-G1	105	3253	B1-U0-G1	108	3383	B2-U0-G2	113	3553	B2-U0-G2	118
		4	3260	B2-U0-G1	109	3378	B2-U0-G1	113	3513	B2-U0-G1	117	3690	B2-U0-G1	123
A03	51	2	4927	B2-U0-G2	97	5106	B2-U0-G2	100	5310	B2-U0-G2	104	5576	B2-U0-G2	109
		3	5512	B2-U0-G2	108	5712	B2-U0-G2	112	5940	B2-U0-G2	116	6237	B2-U0-G2	122
		4	5724	B3-U0-G2	112	5932	B3-U0-G2	116	6169	B3-U0-G2	121	6477	B3-U0-G2	127
A04	75	2	6970	B2-U0-G2	93	7223	B3-U0-G3	96	7512	B3-U0-G3	100	7888	B3-U0-G3	105
		3	7797	B3-U0-G3	104	8080	B3-U0-G3	108	8403	B3-U0-G3	112	8823	B3-U0-G3	118
		4	8097	B3-U0-G2	108	8391	B3-U0-G2	112	8727	B3-U0-G2	117	9163	B3-U0-G2	122
A05	95	2	8545	B3-U0-G3	90	8855	B3-U0-G3	94	9209	B3-U0-G3	97	9669	B3-U0-G3	102
		3	9558	B3-U0-G3	101	9905	B3-U0-G3	105	10301	B3-U0-G3	109	10816	B3-U0-G3	114
		4	9926	B3-U0-G2	105	10287	B3-U0-G2	109	10698	B3-U0-G2	113	11233	B3-U0-G3	119

Values from photometric tests performed in accordance with IESNA LM-79 and are representative of the configurations shown. Actual performance may vary due to installation and environmental variables, LED and driver tolerances, and field measurement considerations. It is highly recommended to confirm performance with a photometric layout.

NOTE: Some data may be scaled based on tests of similar (but not identical) luminaires. Contact factory for configurations not shown.

Lumen values for emergency mode

Perf. Package	System Watts	Dist. Type	3000K			4000K			5000K			3000K			4000K		
			70 CRI			70 CRI			70 CRI			80 CRI			80 CRI		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
PWS-P-10W20LED-XXX-EM	10	2	1911	B1-U0-G1	191	1944	B1-U0-G1	194	1905	B1-U0-G1	191	1664	B1-U0-G1	166	1765	B1-U0-G1	177
		3	1941	B1-U0-G1	194	1974	B1-U0-G1	197	1934	B1-U0-G1	193	1690	B1-U0-G1	169	1792	B1-U0-G1	179
		4	1837	B1-U0-G1	184	1869	B1-U0-G1	187	1831	B1-U0-G1	183	1600	B1-U0-G1	160	1697	B1-U0-G1	170
PWS-P-20W20LED-XXX-EMC	22	2	4071	B1-U0-G1	183	4141	B1-U0-G1	187	4058	B1-U0-G1	183	3545	B1-U0-G1	160	3759	B1-U0-G1	169
		3	4134	B1-U0-G1	186	4205	B1-U0-G1	189	4121	B1-U0-G1	186	3601	B1-U0-G1	162	3818	B1-U0-G1	172
		4	3914	B1-U0-G1	176	3981	B1-U0-G1	179	3902	B1-U0-G1	176	3409	B1-U0-G1	154	3615	B1-U0-G1	163

Predicted lumen depreciation data for precision light engine

Ambient Temperature °C	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**>102,000 hours**	**>93%**

Predicted lumen depreciation data for comfort light engine

Ambient Temperature °C	L_{70} per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	**>42,000 hours**	**>88%**

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

PWS PureForm LED wall sconce

Wall mount

Precision optical distributions

Based on 20' mounting height

Type 2

Type 3

Type 4

BLC
(ETOr)

Comfort optical distributions

Based on 20' mounting height

Comfort Type 2

Comfort Type 3

Comfort Type 4

PWS PureForm LED wall sconce

Wall mount

Specifications

Housing

Main body housing and door frame made of low copper die cast aluminum alloy for a high resistance to corrosion. Door hinges secured by aircraft cable to allow access to driver or other electronic components for servicing. The door frame acts as the main heat transfer component and it is optimized to allowing the main housing to have no fins, giving the freedom to have a clean minimalist aesthetic design while allowing it to house emergency battery backup equipment and various other options. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Light engine

Precision light engine: LED PCBA made of 20 LEDs (2 board & 4 board) populated on aluminum metal core board for optimal thermal dissipation ensuring longer LED lifespan. Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21.

Comfort light engine: Light guide technology provides low-glare, uniform illumination. Composed of LEDs strategically positioned on the edge of the optical plate. Light engine luminous opening size optimized to best achieve a balance between lumen output and optical performance with the need to provide visual comfort. Light engine frame ensures contact with housing to provide heat conduction and sealing against the elements. Light engine is RoHS compliant. Standard color temperatures: 3000K +/- 130K, 4000K+/- 130K, 5000K +/- 225K. Minimum CRI of 70. Also available in 2700K and Amber (>590nm) with extended lead times. Contact factory for details. LED light engine is rated IP65 in accordance to Section 9 of IEC 60598-1.

Optical systems

Type 2, 3, and 4 distributions available. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Luminaire ships fully assembled, ready to install.

Control options

0-10V dimming: Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance mounted on top of the luminaire arm. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program.

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest of 10 output positions. Consult factory for specific dimming settings for each position. Cannot be used with other control options ormotion response.

Automatic Profile Dimming (CS/CM): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 2, or 3 hours before depending of the duration of dimming. Ensure the luminaire is connected to a common external timer or a photocell as the driver needs to turn OFF & ON to calibrate its internal clock.If the input power stays on permanently, the driver won't dim. Cannot be used with other dimming control options.

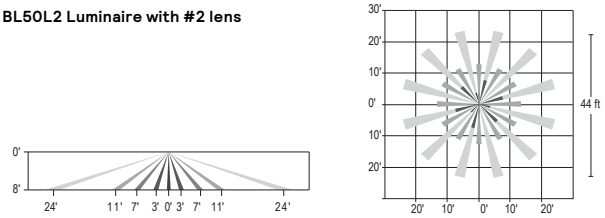
Emergency Battery Backup / Cold Rated (EM/EMC): Emergency battery pack included integral to the luminaire, allowing for a consistent look between emergency and non-emergency luminaires. EM is suitable for use in ambient temperature conditions from 0°C (32°F) to 50°C (122°F) available on A01 to A05 and upto 40°C (104°F) available on A06 to A09 precision engine and 0°C (32°F) to 40°C (100°F) available on A01 and A02 in comfort engine only. EMC is cold weather rated for use in ambient temperature conditions from -20°C (-4°F) to 40°C (104°F) available in both precision & comfort light engine. EMC not available in A05 comfort engine. The system is designed to have a secondary driver with relay to immediately detect AC power loss to power luminaire for a minimum of 90 minutes from the time power is lost. Available with 120V-277V, or 'UNV' only.

Motion response options

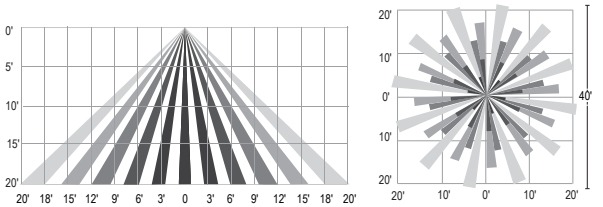
Bi-Level Infrared Motion Response (BL50): In the Precision light engine the Passive Infrared (PIR) motion response module is mounted integral to luminaire. The factory pre-programs the sensor to 50% dimming when not ordered with other control options.

Infrared Motion Response Lens (L2/L3): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 (L2) is designed for lower mounting heights up to 8' with larger coverage areas up to 44' diameter coverage area. Lens #3 (L3) is designed for mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

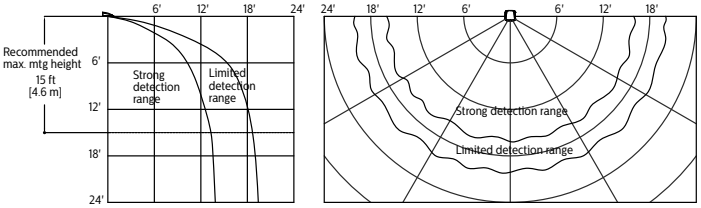
BL50L2 Luminaire with #2 lens



BL50L3 Luminaire with #3 lens



Bi-Level Infrared Motion Response (BL50MW): In the comfort light engine, the high frequency (5.8GHz +/-75MHz microwave ISM wave band with <0.5 mW transmitting power) microwave motion sensor is mounted integral to the luminaire. This bi-level motion sensor is designed to detect motion through the light engine so it can be used inside the luminaire without any protruded components allowing energy savings and meeting code requirements without compromising comfort and aesthetics. The factory pre-programs the sensor to 50% dimming when not ordered with other control options.



BL50 is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/ light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

PWS PureForm LED wall sconce

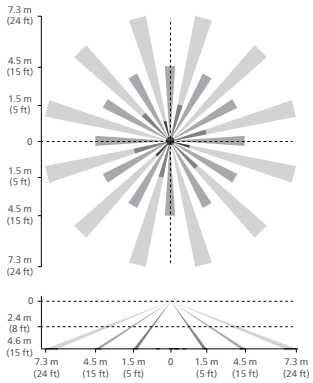
Wall mount

Specifications (cont'd)

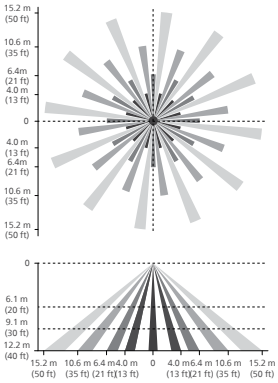
Outdoor Interact (WIAP): Connected sensor with integral occupancy and daylight sensing, supports wireless mesh connectivity. Sensor works in the standalone mode when configured without a gateway. When used with a gateway you are able to access additional functionalities such as energy monitoring, scheduling and BMS integration. Interact offers an App, a portal and a broad portfolio of Interact-ready Indoor and Outdoor luminaires, lamps and retrofit kits all working on the same system. The App provides flexibility to choose between a standalone or gateway mode. Setup with the gateway requires wired Internet access to the gateway. WIAP includes SR driver and SR receptacle. Daylight harvesting supported through dimming - activated via the Interact App. Sensors IP66 rated.

For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

LW low sensor



HW high sensor



Note: The beam patterns shown are intended solely as a general guide and are not to scale. Sensing capabilities and coverage area depend on many factors including the size, speed and direction of travel of persons and vehicles; sensor mounting height; environmental and site conditions; etc.

Electrical

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR)drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Each luminaire is provided as standard with surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA. Optional 20kV is available for additional protection.

Listings

UL/cUL listed to the UL 1598 standard, suitable for wet locations when mounted downward facing. Also listed for damp locations when inverted upward facing when mounted in covered ceiling application. Suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most PureForm PWS configurations are qualified under Premium DesignLights Consortium® category. Consult DLC Qualified Products list for more details. CCTs 3000K and warmer are IDA Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. The surface treatment achieves a minimum of 1000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Warranty

PureForm luminaires feature a 5-year limited warranty.
See signify.com/warranties for complete details and exclusions.

Buy America Compliant

Failure to properly select the “BAC” suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the “Buy America” domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.

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ODLM

Mullion Mount Outdoor Emergency Egress Light

DATE:

PROJECT

COMMENTS:

FEATURES

- Very low profile extruded aluminum housing and mount bracket blend seamlessly with structural metal frames
- Remote power supply for 10W and 20W EM and AC model single fixtures
- Certified IP66 housing withstands multi direction water spray and fine dust ingress
- Universal side or top mount
- Wide lighting distribution designed for entrance walkways
- 10W or 20W emergency power models
- Option for 20W models to operate for 2 hours in emergency mode
- Standard CCT 5000K, with 2900K, 3200K and 3800K options available
- 10W version with 546 lumen output
- 20W version with 1155 lumen output

ORDERING INFORMATION *ODLM-10-AC-BA-MBB*

1. SERIES		2. VA RATING		3. OPERATION		4. HOUSING COLOR			
ODLM	-		-		-		-		-
		10 10 Watt **20** 20 Watt		**AC** AC Only **EM** Battery Backup		**BA** Brushed Aluminum **BK** Black **BZ** Bronze **WH** White			

5. MOUNTING		6. OPTIONS	
	-		
MMT Mullion Mount Top **MMR** Mullion Mount Rear		**BLANK = NO OPTION** **SD** Self-Diagnostics **C1** Dual Circuit (120V)[1] **C2** Dual Circuit (277V)[1] **EB** 2 Hour Runtime **2900K** 2900K Lens Filter **3200K** 3200K Lens Filter **3800K** 3800K Lens Filter	**NL120** Nightlight (120V Non SD Version) **NL277** Nightlight (277V Non SD Version) **NLX** Nightlight (SD Version) **2BR** 2" Mount Bracket Height **5BR** 5" Mount Bracket Height

ORDERING NOTES

1. Only available with AC operation.

SPECIFICATIONS

CONSTRUCTION

- Extruded aluminum lamp housing 2" diameter, with gasketed mount bracket only
- Waterproof compression seal for universal wall or top mount
- Gasketed, molded end caps and sealed acrylic lens
- Stainless steel hardware

ELECTRONICS

- Line latch circuit prevents unwanted emergency activation at installation.
- Low Voltage Disconnect prevents deep battery discharge.

TEMPERATURE RATING

- **EM:** Backup Battery: -4°F to 104°F
- **AC:** No Backup Battery: -4°F to 104°F

APPROVALS

- UL 924
- NFPA 101 Life Safety Code
- IP66
- BAA Compliant

WARRANTY

Isolite offers a 5-year limited warranty. For further details, refer to General Warranty and Obligations in the Isolite manual or on our website. Lamps not warranted.

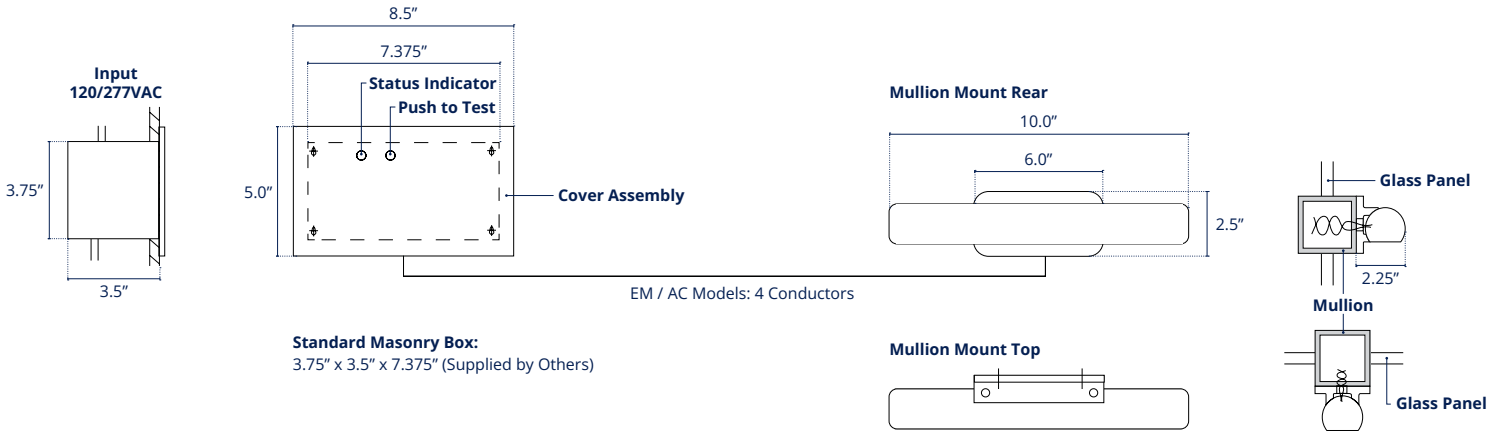
ODLM

Mullion Mount Outdoor Emergency Egress Light

MOUNTING DIMENSIONS

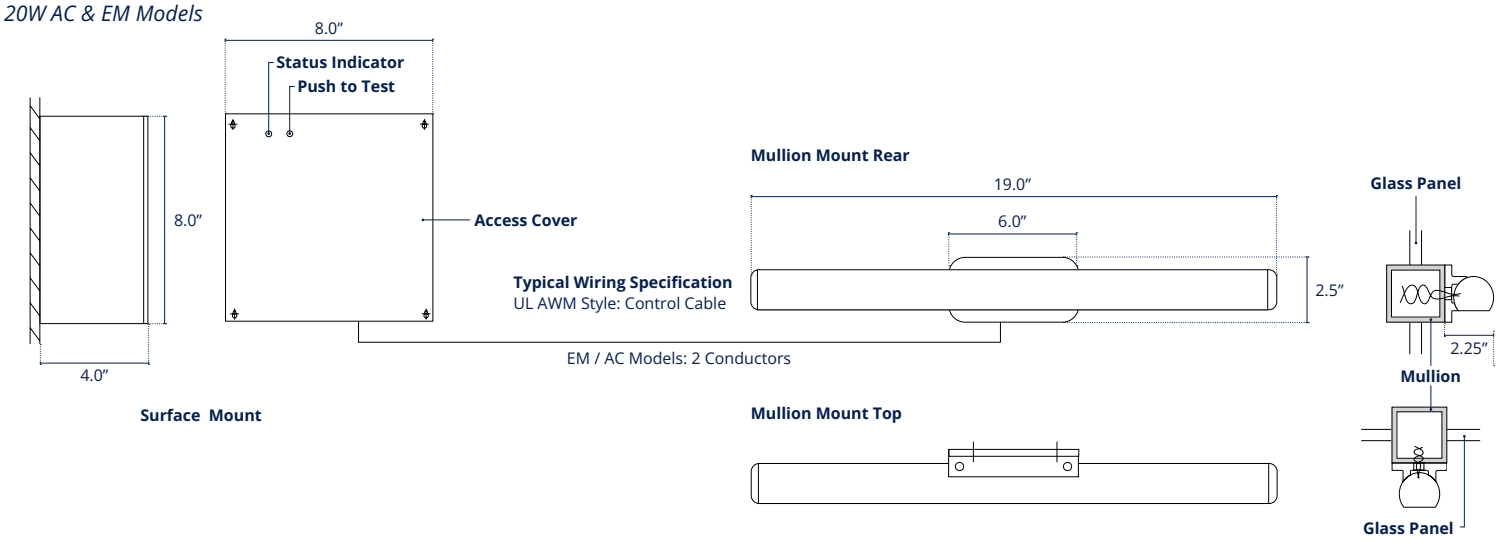
Remote Power Supply

10W AC & EM Models



Remote Power Supply

20W AC & EM Models



WIRING LENGTH

MAXIMUM WIRING LENGTH FROM POWER SUPPLY TO FIXTURE		
WIRING SIZE AWG	LENGTH (FT)	
	10W UNIT	20W UNIT
#22	20	
#20	40	12
#18	60	25
#16	100	50
#14	160	75
#12	250	125

20W SPACING CHART

MOUNTING HEIGHT	SPACING
7′	26′
8′	30′
9′	36′
10′	38′
11′	40′
12′	42′
13′	44′
14′	70′
16′	64′
18′	56′
20′	48′
22′	44′
24′	36′
26′	26′

SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.
CONTACT ISOLITE FOR UP TO DATE DETAILS.

Motive Wall Mount Light

Spec Sheet | AJ200

Motive is a sophisticated family of lights that blurs the line between indoor and outdoor lighting to create out-of-the-ordinary settings. Designed by Justin Champaign, Motive celebrates the beauty of illumination and its interaction with architecture, objects, and space. The luminaires' neutral sculptural form address an array of applications for buildings and grounds, pathways, social spaces, and high-profile areas such as art installations and entrances.

Housing & Materials

A UV stable, impact modified diffused acrylic lens seals to the cast aluminum round luminaire housing. Luminaire mounts to standard junction box (by others) with included wall mount plate and gasket. The luminaire's cast lid is secured with three socket head set screws. All hardware is magni-coated.

Electrical

Internally mounted surge protected 120V through 277V 50/60Hz electronic driver. -40°C start temperature., leading edge and trailing edge phase-cut dimmable. Motive path light ships prewired.

Light Engine

Cast aluminum light cartridge features high powered LEDs mounted to a RoHS compliant circuit board delivering indirect lighting. Motive Wall Mount Light can be configured with a short Type V (Lambertian) distribution. The replaceable cartridge provides ease of installation and serviceability. Available in 2700K, 3000K, 3500K, and 4000K. >80 CRI across all available color temperatures.

Distribution

Lambertian

Warranty

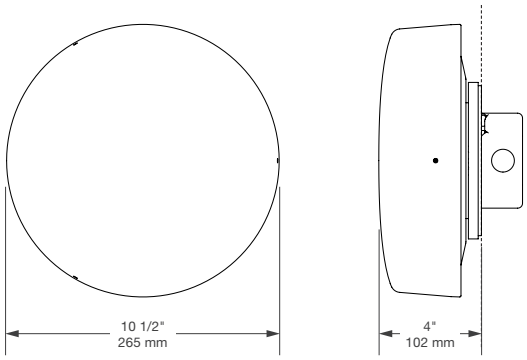
LED lighting products are warranted for six years.

Certification

UL Listed for Wet Location, CE, Buy America Compliant, RoHS Compliant

Designed by Justin Champaign

Click here for patent information related to this product.



Weight: 7 lbs

TM21 L70(10k): 60,000 hrs
Protection Class: IP66

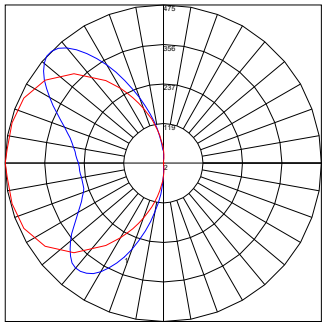
Motive Wall Mount Light

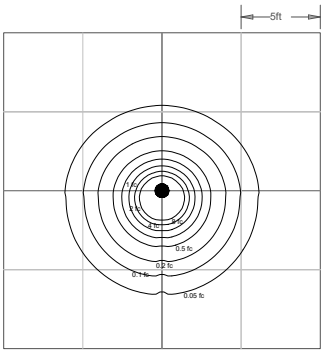
Spec Sheet | AJ200

Model	Distribution Type	Drive Current	Delivered Lumens	System Wattage	BUG Rating
AJ200-LB-70F	Lambertian	700mA	1795	18.4	N/A

This data is subject to change.

AJ200-LB-70F





Maximum Candela=474.6
Located at Horizontal Angle=180,
Vertical Angle=132.5

Luminaire

Product	Color Temperature	Input Voltage
AJ200 *(Wall Mount Light)*	27K *(2700K)* 30K *(3000K)* 35K *(3500K)* 40K *(4000K)*	UV1 *(100V-277V, 50/60 Hz)*

Example: AJ200 – 27K – UV1 – Powdercoat

Notes:

Motive Wall Mount Light

landscapeforms®

Material / Colors Sheet | AJ200

Vivid Series - Powdercoated Metal* (Fine Texture)

CLY (Clay)

LMN (Lemon)

MNG (Mango)

CHL (Chili)

APR (Loll Apple Red)

LFG (Loll Leaf Green)

MSS (Moss)

FOR (Forest)

NVY (Loll Navy Blue)

Neutral Series - Powdercoated Metal*

SIL (Silver Metallic)

MER (Mercury Metallic)

STL (Steel Metallic)

BRZ (Bronze Metallic)

TNM (Titanium Metallic)

BLK (Gloss Black)

WHT (Gloss White)

Architectural Series - Powdercoated Metal* (Fine Texture)

FOG (Fog)

OBD (Obsidian)

MBK (Matte Black)

TER (Terra)

NMG (Nutmeg)

ONX (Onyx)

SAG (Sage)

BLA (Blue Ash)

DSK (Dusk)

Motive Wall Mount Light

Material / Colors Sheet | AJ200

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

* All colors and patterns shown are approximate and may vary from sample and final.

Visit landscapeforms.com for more information. Specifications are subject to change without notice. Landscape Forms supports the Landscape Architecture Foundation at the Second Century level.
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Motive Path Light

Spec Sheet | AJ100

Motive is a sophisticated family of lights that blurs the line between indoor and outdoor lighting to create out-of-the-ordinary settings. Designed by Justin Champaign, Motive celebrates the beauty of illumination and its interaction with architecture, objects, and space. The luminaires' neutral sculptural form address an array of applications for buildings and grounds, pathways, social spaces, and high-profile areas such as art installations and entrances.

Housing & Materials

A UV stable, impact modified diffused acrylic lens seals to the cast aluminum round luminaire housing. Luminaire mounts via a cast aluminum hub bolted directly to the top of cast aluminum pole. The luminaire's cast lid is secured with three socket head set screws. All hardware is magni-coated.

Electrical

Internally mounted surge protected 120V through 277V 50/60Hz electronic driver. -40°C start temperature., leading edge and trailing edge phase-cut dimmable. Motive path light ships prewired.

Light Engine

Cast aluminum light cartridge features high powered LEDs mounted to a RoHS compliant circuit board delivering indirect lighting in conjunction with semi-specular aluminum reflector. Motive Path Light can be configured with a Type IV or Type V distribution. The replaceable cartridge provides ease of installation and serviceability. Available in 2700K, 3000K, 3500K, and 4000K. >80 CRI across all available color temperatures.

Distributions

TIV

TV

Warranty

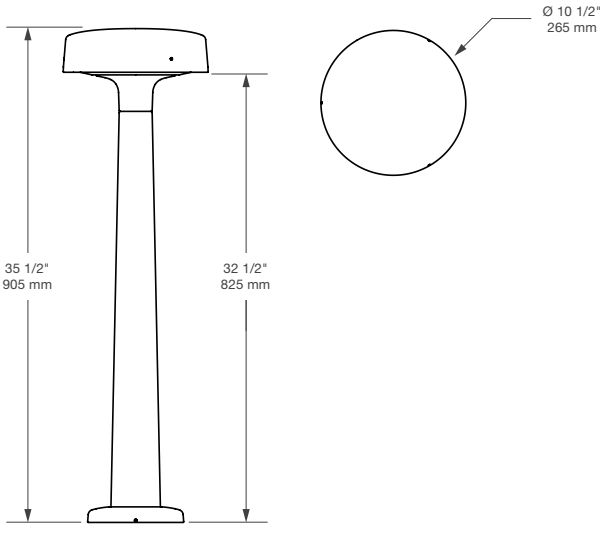
LED lighting products are warranted for six years.

Certification

UL Listed for Wet Location, CE, International Dark Sky Approved, Buy America Compliant, RoHS Compliant

Designed by Justin Champaign

Click here for patent information related to this product.



Weight: 16 lbs

TM21 L70(10k): 60,000 hrs
Protection Class: IP66

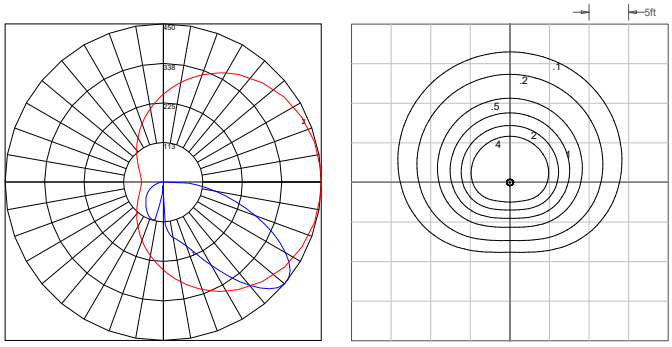
Motive Path Light

Spec Sheet | AJ100

Model	Distribution Type	Drive Current	Delivered Lumens	System Wattage	Bug Rating
AJ100-T4-40F	Type IV	400mA	1023	10.9	B0-U0-G1
AJ100-T5-40F	Type V	400mA	1011	10.3	B1-U0-G1

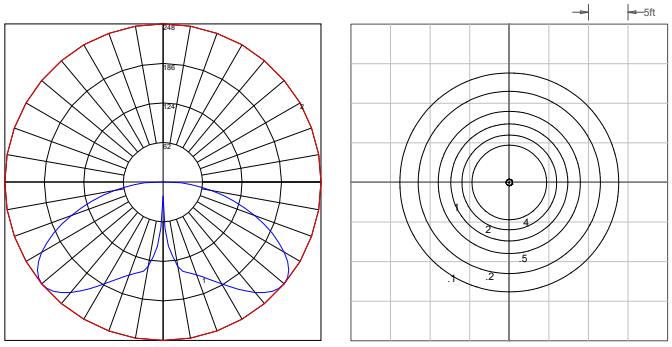
This data is subject to change.

AJ100-T4-40F



Maximum Candela=450.4
Located at Horizontal Angle=0,
Vertical Angle=50

AJ100-T5-40F



Maximum Candela=247.5
Located at Horizontal Angle=0,
Vertical Angle=50

Luminaire

Product	Distribution & Drive Current	Color Temperature *	Input Voltage
AJ100 *(Motive Path Light)*	T4 *(Type IV)* T5 *(Type V)*	27K *(2700K)* 30K *(3000K)* 35K *(3500K)* 40K *(4000K)*	UV1 *(100V-277V, 50/60 Hz)*

Example: AJ100 – T4 – 27K – UV1 – Powdercoat
* For Dark Sky certification, 3000k or warmer must be selected.

Notes:

Motive Path Light

Material / Colors Sheet | AJ100

Vivid Series - Powdercoated Metal* (Fine Texture)

CLY (Clay)

LMN (Lemon)

MNG (Mango)

CHL (Chili)

APR (Loll Apple Red)

LFG (Loll Leaf Green)

MSS (Moss)

FOR (Forest)

NVY (Loll Navy Blue)

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MER (Mercury Metallic)

STL (Steel Metallic)

BRZ (Bronze Metallic)

TNM (Titanium Metallic)

BLK (Gloss Black)

WHT (Gloss White)

Architectural Series - Powdercoated Metal* (Fine Texture)

FOG (Fog)

OBD (Obsidian)

MBK (Matte Black)

TER (Terra)

NMG (Nutmeg)

ONX (Onyx)

SAG (Sage)

BLA (Blue Ash)

DSK (Dusk)

Motive Path Light

Material / Colors Sheet | AJ100

landscapeforms

Powdercoated Metal

Powdercoated Metal Pangard II® Polyester Powdercoat is a hard, yet flexible, finish that resists rusting, chipping, peeling and fading. In addition to colors shown, a wide selection of optional and custom colors may be specified for an upcharge.

* All colors and patterns shown are approximate and may vary from sample and final.

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Light Up Orbit

Flush mounted

Collection of compact exterior luminaires for architectural lighting. Rugged stainless steel construction, with tempered glass lens, these luminaires are designed to perform in extreme conditions. This serie is available in 3 sizes, that can be installed for all in-ground application. Complete range of optic distributions for accent lighting, effects lighting and markers.

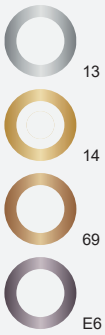
Luminaire characteristics:	**Power input:** 1W to 5.5W (fixture wattage) **Lumens:** 7lm to 541lm (for 3000K, 80CRI) **Luminaire efficacy:** Up to 106lm/W
Source:	LUXEON LED module (LM-80) 2700K: 80CRI, 3000K: 80CRI, 3500K: 80CRI, 4000K: 80CRI.
Lumen maintenance:	ILUF28: 90% of initial lumens at 100 000 hours (L90) ILUF50: 80% of initial lumens at 99 000 hours (L80) ILUF80: 80% of initial lumens at 99 000 hours (L80)
Optics:	Spot, medium, flood, wide flood with Opti Beam technology (comfort versions delivered with an integrated hex cell louver). Wall washer, diffuse, elliptical or light blade.
Material:	Body and frame : AISI 304 stainless steel Diffuser: 6 to 8 mm extra-clear or opal sodium-calcium tempered glass. Optics: PMMA lens or PE film for diffuse optic, clear, black or metalized polycarbonate reflector
Mounting:	Ground recessed installation using polypropylene back box with AISI 304 stainless steel ring (to be ordered separately). Supplied with 6ft (1.8m) long outdoor rated power cable. 12" of gravel is required below the luminaire to allow proper drainage.
Electrical:	High efficiency LED driver, rated at 50 000 hours. See remote LED driver options on page 3-9.
Finish:	Stainless steel, gold/brass, bronze and burnished chrome.
Weight:	ILUF28: 0.42lb (0.19kg) ILUF50: 1.30lb (0.59kg) ILUF80: 3.15lb (1.43kg)
Load capacity:	4 409lb (2 000kg)
Glass surface temperature:	104°F (40°C)
Operating temperature:	ILUF28: -13 to 95°F (-25 to 35°C) ILUF50: -13 to 122°F (-25 to 50°C) ILUF80: -4 to 95°F (-20 to 35°C)
Warranty:	5 year limited warranty
Ratings:	ILUF28: IK09, IP66, IP68* ILUF50: IK07, IP66, IP68* ILUF80: IK09, IP66, IP68* * Complete immersion for 10 minutes, not suitable for use in swimming pools or fountains.
Certification:	cULus listed for wet location.

ORDERING INFO

-REM

PRODUCT CODE

MODEL	OUTPUT	LED	OPTIC	VOLTAGE	FINISH
28 1" (28mm)	**BO** Base output	**827** 2700K, 80CRI	**BL** [2 3] Light blade	**REM** Remote	**13** Stainless steel
50 2" (50mm)	**MO** [1 2] Medium output	**830** 3000K, 80CRI	**SP** [1 2 4] Spot - 28mm (14°) - 50mm (8°) - 80mm (8°)		**14** Gold / brass
80 3" (80mm)	**HO** [1] High output	**835** 3500K, 80CRI	**SH** [1 2] Spot Comfort - 50mm (8°) - 80mm (8°)		**69** Bronze
		840 4000K, 80CRI	**MD** [3 4] Medium - 28mm (22°) - 50mm (24°)		**E6** Burnished chrome
			MH [3] Medium Comfort - 50mm (24°)		
			FL [2] Flood - 80mm (30°)		
			FH [2] Flood comfort - 80mm (28°)		
			WF [2 3] Wide flood - 50mm (42°) - 80mm (50°)		
			WH [2 3] Wide flood comfort - 50mm (40°) - 80mm (42°)		
			EL [1 2] Elliptical - 50mm (68°/12°) - 80mm (78°/10°)		
			DI [1 2 4] Diffuse		
			WW [1 2] Wall washer		



Select remote driver on page 3

1 Available for **50** model.
2 Available for **80** model.
3 Available for **50** model with base output (**BO**).
4 Available for **28** model.
* Back box outer ring finish will match the fixture body finish.

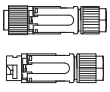
MOUNTING ACCESSORIES
(TO BE ORDERED SEPARATELY)

- ☐ **IX489-XX -** Polypropylene recessed back box for in-ground installation for **ILUF28** Ø5⁵⁄₁₆" x 4⁵⁄₁₆" (Ø135 x 109mm)
- ☐ **IX490-XX -** Polypropylene recessed back box for in-ground installation for **ILUF50** Ø6½" x 4¹⁵⁄₁₆" (Ø165 x 125mm)
- ☐ **IX491-XX -** Polypropylene recessed back box for in-ground installation for **ILUF80** Ø7⁵⁄₁₆" x 4¾" (Ø186 x 120mm)

- ☐ **9583 -** Suction cup for fixture removal

WATERPROOF IP68 FIELD CONNECTOR
For 0.25" - 0.375" (5-9.5mm) cable, 2x 16-24 AWG conductors

- ☐ **9015-9016-KIT -** Female and male connector.



WIRING ACCESSORIES
(TO BE ORDERED SEPARATELY)

- ☐ **9581-02 -** Black watertight connectors (x4), rated IP68

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REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

-REM
PRODUCT CODE

Outdoor rated drivers

Driver box model	Min-max units								
	ILUF28	ILUF50				ILUF80			
	BO (1W*) SP, FL, DI	BO (1W*) BL, SP, SH, EL, DI, WW	BO (3.8W*) MD, MH, WF, WH	MO (1.4W*) SP, SH, EL, DI	HO (2W*) SP, SH, EL, DI	BO (2.9W / 3W*) BL, WW	BO (3.8W*) SP, SH, FL, FH, WF, WH, EL, DI	MO (4.2W*) BL, WW	MO (5.5W*) SP, SH, FL, FH, WF, WH, EL, DI
4548-0350-006-120-D10	2-5	2-5							
4548-0350-012-120-LTE	3-10	3-10	1-2			1-3	1-2		
4549-0350-019-UNV-ED10	1-17	1-17	1-4			1-5	1-4		
4549-0350-019-UNV-SD10	1-17	1-17	1-4			1-5	1-4		
4548-0500-020-UNV-D10				6-12				2-4	2-3
4548-0500-025-120-LTE				6-15				2-5	2-4
4549-0500-027-UNV-ED10				1-17				1-5	1-4
4549-0500-027-UNV-SD10				1-17				1-5	1-4
4548-0700-004-120-LTE					1				
4548-0700-007-UNV-D10					2-3				
4548-0700-020-UNV-D10					4-8				
4549-0700-030-UNV-ED10					1-12				
4549-0700-030-UNV-SD10					1-12				

Indoor rated drivers

Driver box model	Min-max units								
	ILUF28	ILUF50				ILUF80			
	BO (1W*) SP, FL, DI	BO (1W*) BL, SP, SH, EL, DI, WW	BO (3.8W*) MD, MH, WF, WH	MO (1.4W*) SP, SH, EL, DI	HO (2W*) SP, SH, EL, DI	BO (2.9W / 3W*) BL, WW	BO (3.8W*) SP, SH, FL, FH, WF, WH, EL, DI	MO (4.2W*) BL, WW	MO (5.5W*) SP, SH, FL, FH, WF, WH, EL, DI
4444-0350-006-120-D10	2-5	2-5							
4444-0350-012-120-LTE	3-10	3-10	1-2			1-3	1-2		
4443-0350-013-UNV-D2**	6-12	6-12							
4450-0350-019-UNV-D10	3-16	3-16	1-4			2-5	1-4		
4450-0350-019-UNV-ED10	1-17	1-17	1-4			1-5	1-4		
4450-0350-019-UNV-SD10	1-17	1-17	1-4			1-5	1-4		
4450-0500-027-UNV-ED10				1-17				1-5	1-4
4450-0500-027-UNV-SD10				1-17	1			1-5	1-4
4444-0700-004-120-LTE					1				
4444-0700-007-UNV-D10					2-3				
4443-0700-020-UNV-D2**					4-8				
4450-0700-030-UNV-ED10					1-12				
4450-0700-030-UNV-SD10					1-12				

* Wattage requirement for one (1) fixture (remote fixture only).
** Legacy pricing letter required to order any LUTRON products.

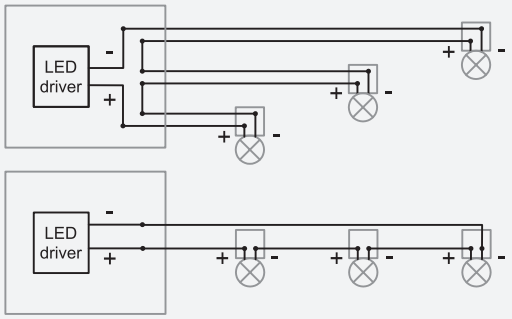
DRIVER BOX MODEL DESCRIPTION

DIMENSION	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4443 5" x 4" x 3" (127 x 102 x 76mm) **4444** 6" x 4" x 3" (152 x 102 x 76mm) **4450** 8" x 8" x 4" (203 x 203 x 102mm) **4548** 6" x 4.5" x 3" (152 x 114 x 76mm) **4549** 14.5" x 5" x 3.5" (368 x 127 x 89mm)	**0350** 350mA **0500** 500mA **0700** 700mA	**006 to 030** 6W to 30W	**120** 120V **UNV** 120-277V	**D10** 0-10V Max distance: 9m (30ft)* (down to 10%) **D2** Lutron Hi Lume® 1% EcoSystem™ (Soft-on, Fade to Black) Max distance: 9m (30ft)* (down to 1%) **ED10** 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)* (down to 1%) **SD10** 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)* (down to 0.1%) **LTE** Leading edge and trailing edge (ELV and TRIAC) Max distance: 100m (330ft)* (down to 15%)

*Max distance cable calculated for 16AWG cable. Contact customer service for longer remote distance.

WIRING DIAGRAMS

Multiple luminaires must be connected in series
(home run or fixture chain)



FAMILY OVERVIEW

1" (28mm)

Spot (14°)

Medium (22°)

Diffuse

2" (50mm)

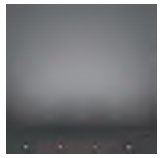
Light blade

Spot (8°)*

Medium (24°)*

Wide flood (42°)*

Elliptical


Wall washer

Diffuse

3" (80mm)

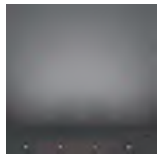
Light blade

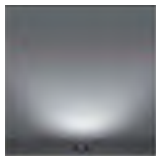
Spot (8°)*

Flood (30°)*

Wide flood (50°)*

Elliptical

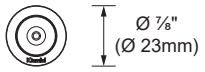

Wall washer


Diffuse

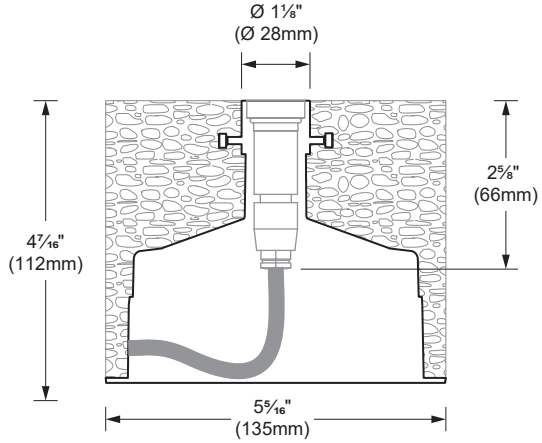
* Optics also offered in Comfort version with honeycomb louver. See photometric information (page 7-11).

DIMENSIONS

1" (28mm)

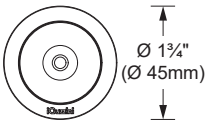


TOP VIEW

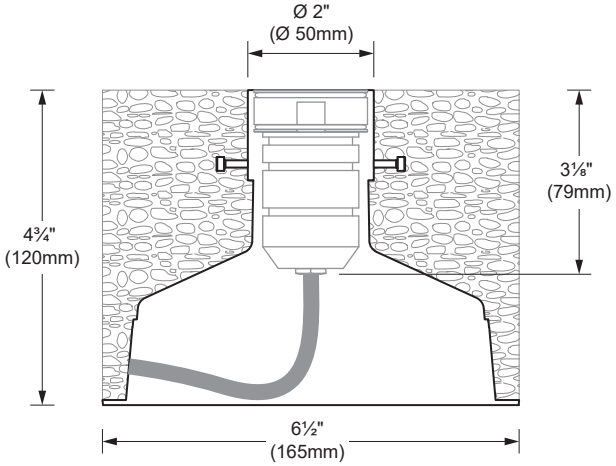


SECTION VIEW

2" (50mm)

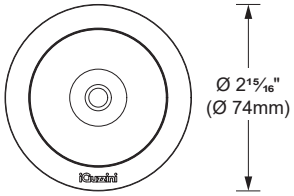


TOP VIEW

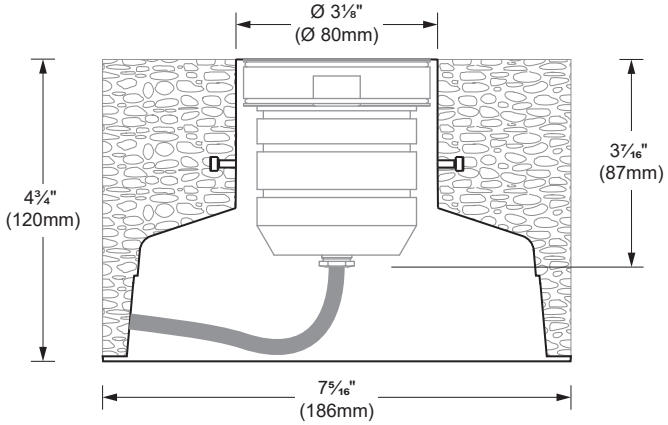


SECTION VIEW

3" (80mm)



TOP VIEW

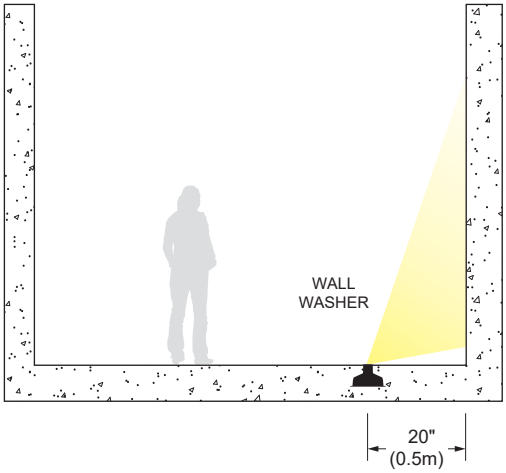


SECTION VIEW

WALL WASHER INSTALLATION

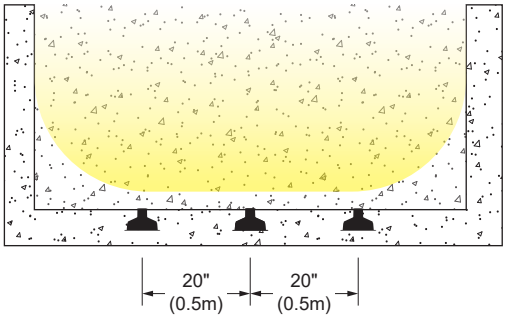
SUGGESTED SURFACE DISTANCE

2" (50mm) / 3" (80mm)



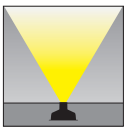
SUGGESTED SPACING FOR UNIFORM DISTRIBUTION

2" (50mm) / 3" (80mm)



PHOTOMETRIC DATA

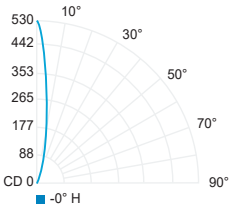
1" (28mm)



CCT (K)	CRI	OUTPUT	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	80	BO	1W	Spot 14°	53	53	522	ILUF28-BO-830-SP
				Medium 22°	56	56	352	ILUF28-BO-830-MD
				Diffuse	7	7	2	ILUF28-BO-830-DI

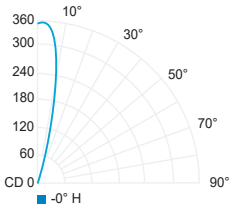
*For products that uses a remote led driver, total system wattage will varies according to the efficacy of the remote led driver selected. For this reason, the load and efficacy values given in the table above refers to the led source only and does not include the led driver consumption.

Spot 14° BO (3000K, 80CRI)



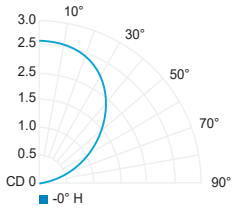
	Center beam fc	Beam width ft
12ft	3.63	2.8
10ft	5.22	2.3
8ft	8.16	1.9
6ft	14.5	1.4
4ft	32.6	0.9
2ft	131	0.5

Medium 22° BO (3000K, 80CRI)



	Center beam fc	Beam width ft
12ft	2.43	4.7
10ft	3.50	3.9
8ft	5.47	3.1
6ft	9.72	2.3
4ft	21.9	1.6
2ft	87.5	0.8

Diffuse BO (3000K, 80CRI)



	Center beam fc	Beam width ft
12ft	0.02	33.9
10ft	0.03	28.3
8ft	0.04	22.6
6ft	0.07	17.0
4ft	0.16	11.3
2ft	0.65	5.70

CCT options	2700K	3000K	3500K	4000K
CRI options	80CRI	80CRI	80CRI	80CRI
Multiplier	**0.97**	**1**	**1.04**	**1.13**

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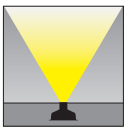
PHOTOMETRIC DATA

2" (50mm)



CCT (K)	CRI	OUTPUT	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	80	BO	1W	Light blade	9	9	117	ILUF50-BO-830-BL
				Spot 8°	79	79	1 765	ILUF50-BO-830-SP
				Spot comfort 8°	59	59	1 518	ILUF50-BO-830-SH
			3.8W	Medium 24°	338	88	1 660	ILUF50-BO-830-MD
				Medium comfort 24°	272	71	1 601	ILUF50-BO-830-MH
				Wide flood 42°	357	93	780	ILUF50-BO-830-WF
				Wide flood comfort 40°	240	63	585	ILUF50-BO-830-WH
			1W	Elliptical 68° / 12°	86	86	242	ILUF50-BO-830-EL
				Diffuse	17	17	6	ILUF50-BO-830-DI
				Wall washer	33	33	44	ILUF50-BO-830-WW
		MO	1.4W	Spot 8°	109	77	2 444	ILUF50-MO-830-SP
				Spot comfort 8°	82	58	2 101	ILUF50-MO-830-SH
				Elliptical 68° / 12°	119	85	335	ILUF50-MO-830-EL
				Diffuse	23	16	8	ILUF50-MO-830-DI
		HO	2W	Spot 8°	146	73	3 259	ILUF50-HO-830-SP
				Spot comfort 8°	110	55	2 802	ILUF50-HO-830-SH
				Elliptical 68° / 12°	158	79	447	ILUF50-HO-830-EL
				Diffuse	30	15	10	ILUF50-HO-830-DI

*For products that uses a remote led driver, total system wattage will varies according to the efficacy of the remote led driver selected. For this reason, the load and efficacy values given in the table above refers to the led source only and does not include the led driver consumption.

CCT options	2700K	3000K	3500K	4000K
CRI options	80CRI	80CRI	80CRI	80CRI
Multiplier	**0.97**	**1**	**1.04**	**1.13**

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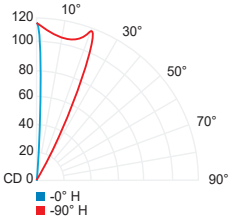
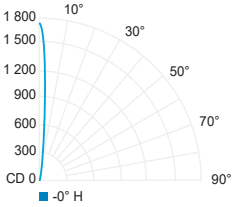
2" (50mm)

Light blade BO (3000K, 80CRI)



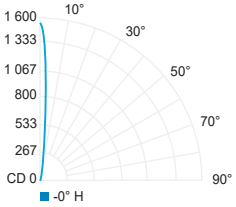
	Center beam fc	Beam width ft	
12ft	0.80	1.1	11.7
10ft	1.15	0.9	9.7
8ft	1.79	0.7	7.8
6ft	3.19	0.5	5.8
4ft	7.17	0.4	3.9
2ft	28.7	0.2	1.9

Spot 8° BO (3000K, 80CRI)



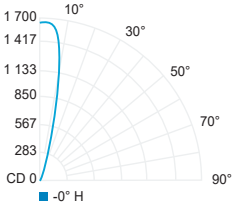
	Center beam fc	Beam width ft
12ft	12.3	1.6
10ft	17.7	1.3
8ft	27.6	1.1
6ft	49.0	0.8
4ft	110	0.5
2ft	441	0.3

Spot comfort 8° BO (3000K, 80CRI)



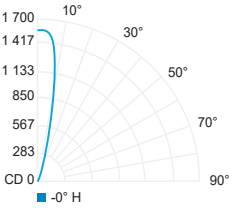
	Center beam fc	Beam width ft
12ft	10.5	1.6
10ft	15.2	1.3
8ft	23.7	1.1
6ft	42.2	0.8
4ft	94.9	0.5
2ft	380	0.3

Medium 24° BO (3000K, 80CRI)



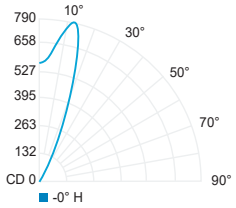
	Center beam fc	Beam width ft
12ft	11.5	5.2
10ft	16.5	4.4
8ft	25.8	3.5
6ft	45.9	2.6
4ft	103	1.7
2ft	413	0.9

Medium comfort 24° BO (3000K, 80CRI)



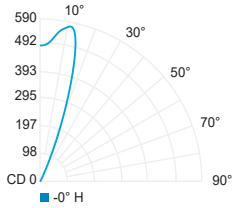
	Center beam fc	Beam width ft
12ft	11.0	4.8
10ft	15.8	4.0
8ft	24.7	3.2
6ft	43.9	2.4
4ft	98.8	1.6
2ft	395	0.8

Wide flood 42° BO (3000K, 80CRI)



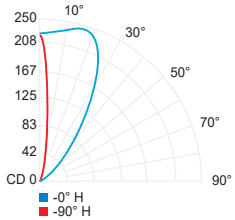
	Center beam fc	Beam width ft
12ft	3.96	8.1
10ft	5.70	6.7
8ft	8.91	5.4
6ft	15.8	4.0
4ft	35.6	2.7
2ft	143	1.3

Wide flood comfort 40° BO (3000K, 80CRI)



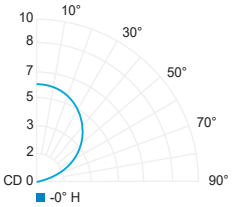
	Center beam fc	Beam width ft
12ft	3.41	7.3
10ft	4.91	6.1
8ft	7.67	4.9
6ft	13.6	3.7
4ft	30.7	2.4
2ft	123	1.2

Elliptical 68° / 12° BO (3000K, 80CRI)



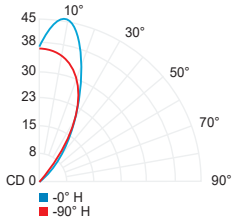
	Center beam fc	Beam width ft	
12ft	1.57	16.4	2.3
10ft	2.26	13.7	1.9
8ft	3.54	10.9	1.5
6ft	6.29	8.2	1.2
4ft	14.2	5.5	0.8
2ft	56.6	2.7	0.4

Diffuse BO (3000K, 80CRI)



	Center beam fc	Beam width ft
12ft	0.04	35.7
10ft	0.06	29.8
8ft	0.09	23.8
6ft	0.17	17.9
4ft	0.37	11.9
2ft	1.49	6.0

Wall washer BO (3000K, 80CRI)



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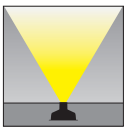
PHOTOMETRIC DATA

3" (80mm)



CCT (K)	CRI	OUTPUT	LOAD (W)*	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	80	BO	2.9W	Light blade	31	10	897	ILUF80-BO-830-BL
			4W	Spot 8°	406	106	8 515	ILUF80-BO-830-SP
				Spot comfort 8°	310	81	7 533	ILUF80-BO-830-SH
				Flood 30°	379	99	1 421	ILUF80-BO-830-FL
				Flood comfort 28°	268	70	1 129	ILUF80-BO-830-FH
				Wide flood 50°	365	96	583	ILUF80-BO-830-WF
				Wide flood comfort 42°	230	60	523	ILUF80-BO-830-WH
				Elliptical 78° / 10°	393	103	1 108	ILUF80-BO-830-EL
				Diffuse	66	17	22	ILUF80-BO-830-DI
			3W	Wall washer	164	54	196	ILUF80-BO-830-WW
		MO	4.2W	Light blade	41	9	1 197	ILUF80-MO-830-BL
			5.5W	Spot 8°	541	98	11 353	ILUF80-MO-830-SP
				Spot comfort 8°	413	75	10 044	ILUF80-MO-830-SH
				Flood 30°	497	90	1 865	ILUF80-MO-830-MD
				Flood comfort 28°	352	64	1 482	ILUF80-MO-830-FH
				Wide flood 50°	357	93	766	ILUF80-MO-830-WF
				Wide flood comfort 42°	302	54	686	ILUF80-MO-830-WH
				Elliptical 78° / 10°	524	95	1 477	ILUF80-MO-830-EL
			5.4W	Diffuse	87	16	29	ILUF80-MO-830-DI
			4.2W	Wall washer	218	51	261	ILUF80-MO-830-WW

*For products that uses a remote led driver, total system wattage will varies according to the efficacy of the remote led driver selected. For this reason, the load and efficacy values given in the table above refers to the led source only and does not include the led driver consumption.

CCT options	2700K	3000K	3500K	4000K
CRI options	80CRI	80CRI	80CRI	80CRI
Multiplier	**0.97**	**1**	**1.04**	**1.13**

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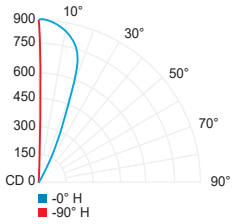
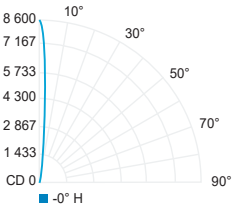
3" (80mm)

Light blade BO (3000K, 80CRI)



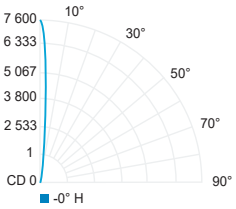
	Center beam fc	Beam width ft	
12ft	6.14	9.5	0.5
10ft	8.84	7.9	0.4
8ft	13.8	6.3	0.4
6ft	24.6	4.8	0.3
4ft	55.3	3.2	0.2
2ft	221	1.6	0.1

Spot 8° BO (3000K, 80CRI)



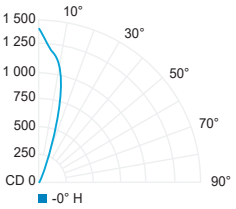
	Center beam fc	Beam width ft
12ft	59.1	1.9
10ft	85.2	1.5
8ft	133	1.2
6ft	237	0.9
4ft	332	0.6
2ft	2 129	0.3

Spot comfort 8° BO (3000K, 80CRI)



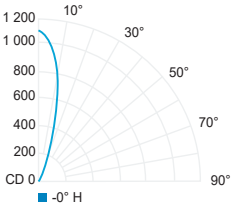
	Center beam fc	Beam width ft
12ft	52.3	1.8
10ft	75.3	1.5
8ft	118	1.2
6ft	209	0.9
4ft	171	0.6
2ft	1 883	0.3

Flood 30° BO (3000K, 80CRI)



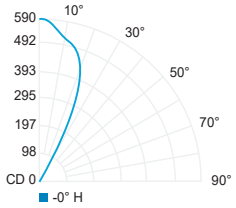
	Center beam fc	Beam width ft
12ft	9.87	6.6
10ft	14.2	5.5
8ft	22.2	4.4
6ft	39.5	3.3
4ft	88.8	2.2
2ft	355	1.1

Flood comfort 28° BO (3000K, 80CRI)



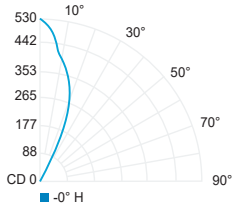
	Center beam fc	Beam width ft
12ft	7.84	6.1
10ft	11.3	5.0
8ft	17.6	4.0
6ft	31.4	3.0
4ft	70.6	2.0
2ft	282	1.0

Wide flood 50° BO (3000K, 80CRI)



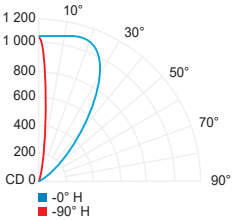
	Center beam fc	Beam width ft
12ft	4.05	11.3
10ft	5.84	9.4
8ft	9.12	7.5
6ft	16.2	5.7
4ft	36.8	3.6
2ft	146	1.9

Wide flood comfort 42° BO (3000K, 80CRI)



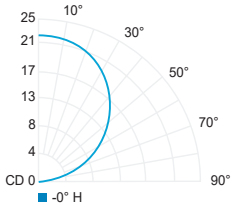
	Center beam fc	Beam width ft
12ft	3.62	8.8
10ft	5.22	7.4
8ft	8.15	5.9
6ft	14.5	4.4
4ft	32.6	2.9
2ft	130	1.5

Elliptical 78° / 10° BO (3000K, 80CRI)



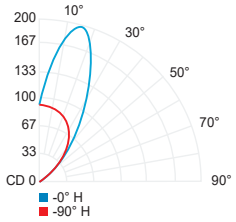
	Center beam fc	Beam width ft	
12ft	7.43	19.3	2.3
10ft	10.7	16.1	1.9
8ft	16.7	12.8	1.5
6ft	29.7	9.6	1.2
4ft	66.9	6.4	0.8
2ft	267	3.2	0.4

Diffuse BO (3000K, 80CRI)



	Center beam fc	Beam width ft
12ft	0.16	38.1
10ft	0.22	31.7
8ft	0.35	25.4
6ft	0.62	19.0
4ft	1.40	12.7
2ft	5.60	6.3

Wall washer BO (3000K, 80CRI)



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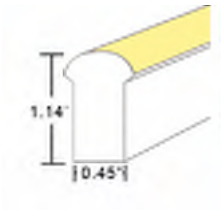
LLI ARCHITECTURAL LIGHTING

PROJECT	SPECIFIER
SKU	
QUANTITY	DATE

LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

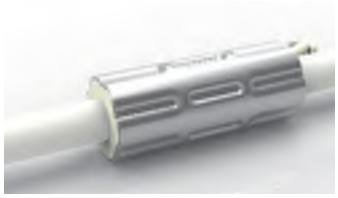


3 YEAR LIMITED WARRANTY

TECHNICAL INFORMATION

NOTE: All data has +/- 5% tolerance.

WATTAGE	3.1W per foot
BEND ORIENTATION	Side bend
IP RATING	IP65 - wet locations; not suitable for submersion, limited protection against harsh environments. Meets ETL 1598 standard.
HOUSING MATERIAL	PVC
OUTPUT	2200K - 104 lm/ft 2700K - 128 lm/ft 3000K - 128 lm/ft 3500K - 128 lm/ft 4000K - 128 lm/ft 5700K - 128 lm/ft
INPUT VOLTAGE	120VAC
CRI	80+
SEGMENT LENGTH	Every 3.28", not field-cuttable
DIMMABLE	Yes, compatible with ELV reverse phase dimmers
MAXIMUM RUN	65ft max. run for individual section. 130ft max. run for two (2) 65ft sections joined by jumper cable. See pages 2-3. One (1) fuse box required per run, LLI-NAC-65-ETLBOX-12IN-120V
DIMENSIONS	0.45" W x 1.14" H (11.5mm x 29mm)
MINIMUM BEND	4.72" diameter
INSTALLATION TEMP.	4°F to 120°F
OPERATING TEMP.	-4°F to 120°F
WARRANTY	3 year limited

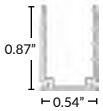


ANTI-WICKING FERRULE

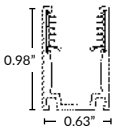
Standard on all LED Neon power cables.
Located 4.5" from the connector.
Protects against water ingress and circuit board corrosion.
H 0.47" x W 1.18"

MOUNTING CLIP OPTIONS (SOLD SEPARATELY)

More options and channels available (page 6-8). Recommended 2 clips per 12" of Neon.



Mounting Clip
Part Number: LLI-ND-MCL-1.5IN
1.38" L x 0.87" H x 0.54" W



Silicone Grip Mounting Clip
Part Number: LLI-ND-MCL-SG-0.8IN
0.80" L x 0.98" H x 0.63" W

NOTE: Neon sections may be mounted end-to-end on the non-power feed end to create the appearance of longer runs. End-to-end Neon sections must have a 0.5" to 1" gap to allow for expansion/contraction. A dark spot may be visible at <20ft viewing distance.

PART NUMBER BUILDER / ORDERING GUIDE

Example part number: LLI-N3.1W-65-DSP-30K-120V-96in

SERIES		IP RATING		TYPE		CCT		VOLTAGE		LENGTH
LLI-N3.1W	-	65	-	DSP	-		-	120V	-	

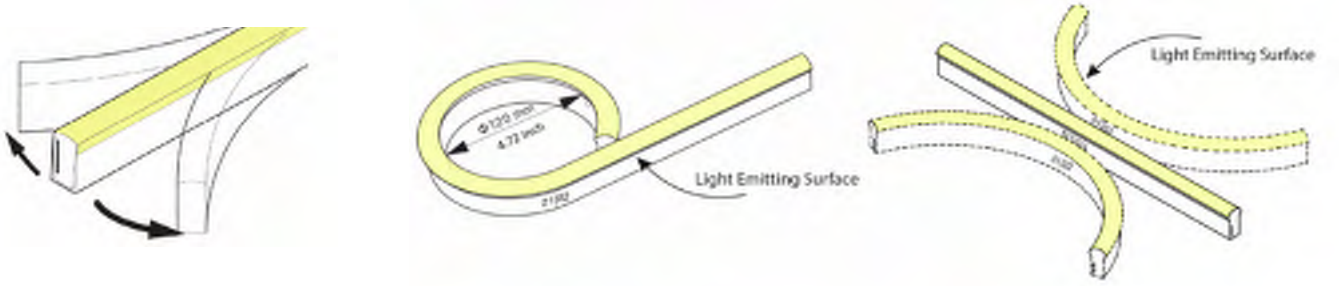
22K - 104 lm/ft
27K - 128 lm/ft
30K - 128 lm/ft
35K - 128 lm/ft
40K - 128 lm/ft
57K - 128 lm/ft

(enter length in inches, up to 780")

LINE VOLTAGE STATIC WHITE LED NEON - 120V

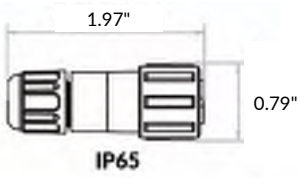
Dome Profile / Side Bending / PVC

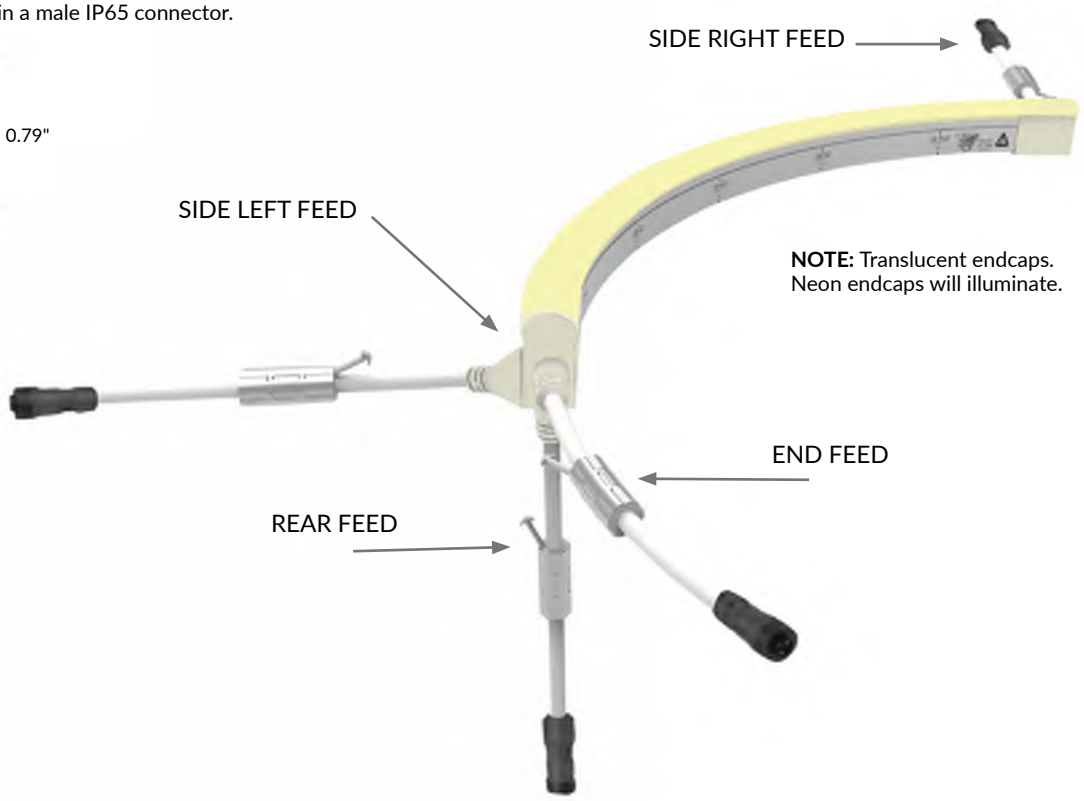
ORIENTATION & MINIMUM BEND DIAMETER



POWER FEED ORIENTATION GUIDE

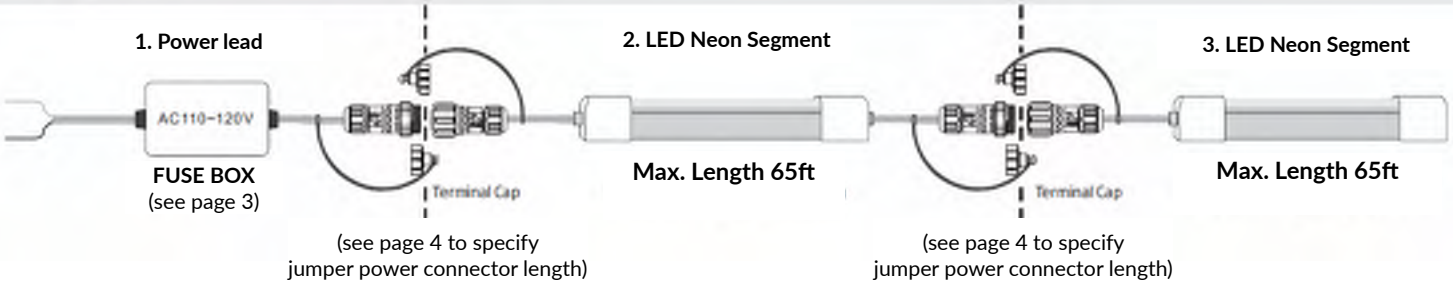
All power feeds terminate in a male IP65 connector.





STANDARD LAYOUT

ETL Certified (Standard UL 1598, CSA C22.2#250.0)



LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

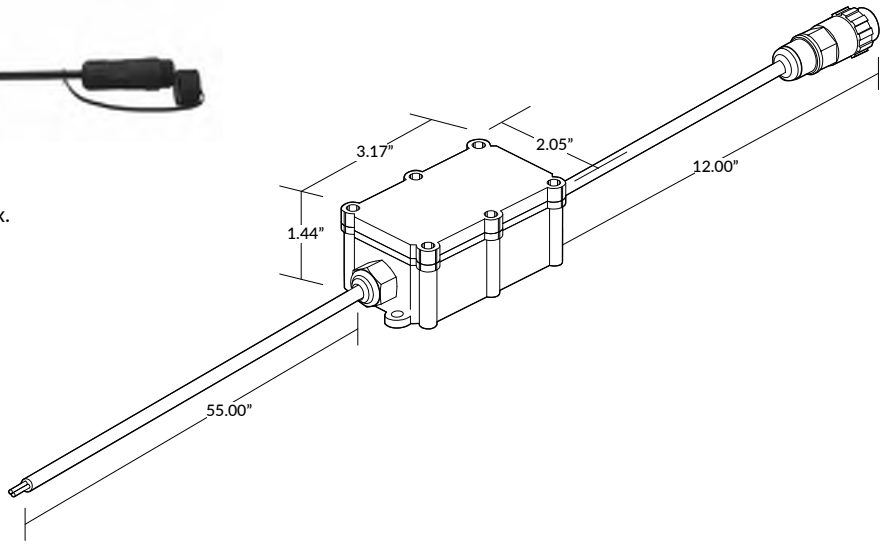
POWER FEED & TERMINATION OPTIONS (IP65)

Fuse Box

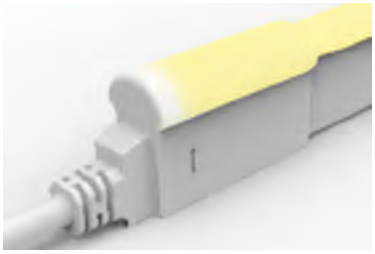
(required for every Neon section)

18AWG. 55" cable length before box; 12" cable length after box.
Box must be accessible for fuse replacement.

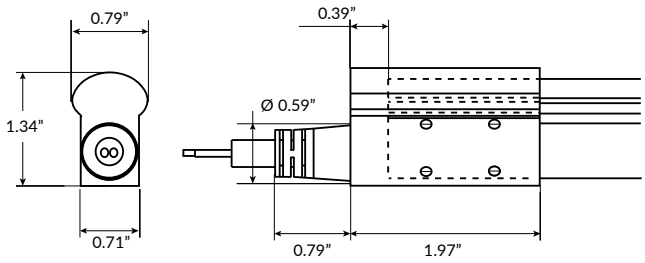
Do not open fuse box during installation or during use.



SERIES	LENGTH	INPUT
LLI-NAC-65-ETLBOX	12IN	120V



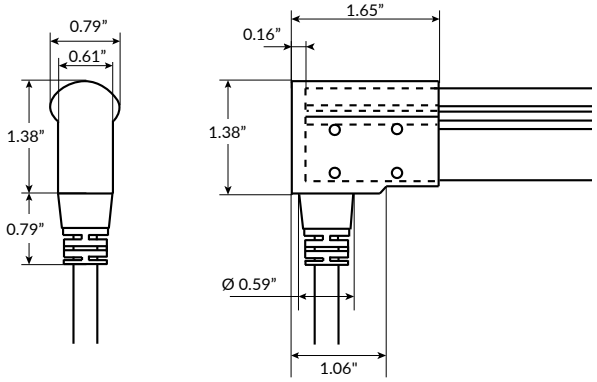
End Power Feed



SERIES	SIDE	LENGTH	INPUT
LLI-ND-65-PWR2	EF		120V

39IN
118IN
196IN
393IN

Rear Power Feed



SERIES	SIDE	LENGTH	INPUT
LLI-ND-65-PWR2	RF		120V

39IN
118IN
196IN
393IN

LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

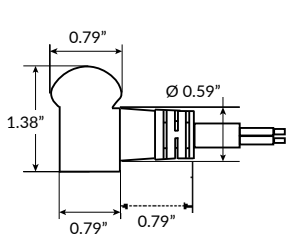
POWER FEED & TERMINATION OPTIONS (IP65)

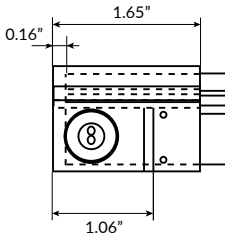
Side Right Power Feed

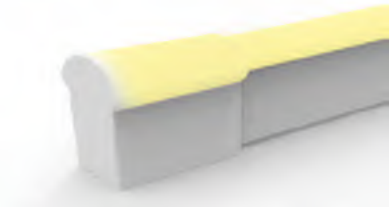
SERIES	SIDE	LENGTH	INPUT
LLI-ND-65-PWR2	SR		120V
		39IN 118IN 196IN 393IN	

Side Left Power Feed

SERIES	SIDE	LENGTH	INPUT
LLI-ND-65-PWR2	SL		120V
		39IN 118IN 196IN 393IN	



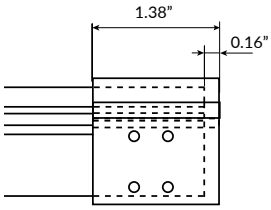


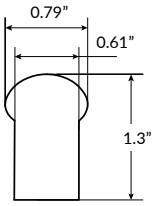


End Cap

SERIES

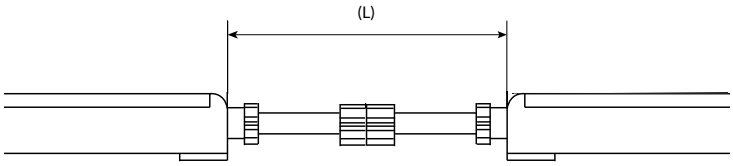
LLI-ND-65-EC-120V





Jumper Power Connector

SERIES	SIDE	LENGTH (L)
LLI-ND-65-CON2		
	SR SL EF RF	12IN 39IN 118IN 196IN 393IN



LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

OVERALL LENGTH / CUT POINT GUIDE

Dimension tolerance of ± 1/8".
This product expands and contracts in varying ambient temperatures. If butting Neon end-to-end, add 1/2" to 1" gap between sections for expansion.

SIDE FEED AND REAR FEED LED NEON

3.6"	6.9"	10.2"	13.4"	16.7"	20.0"	23.3"	26.6"	29.8"	33.1"	36.4"	39.7"
43.0"	46.2"	49.5"	52.8"	56.1"	59.4"	62.6"	65.9"	69.2"	72.5"	75.8"	79.0"
82.3"	85.6"	88.9"	92.2"	95.4"	98.7"	102.0"	105.3"	108.6"	111.8"	115.1"	118.4"
121.7"	125.0"	128.2"	131.5"	134.8"	138.1"	141.4"	144.6"	147.9"	151.2"	154.5"	157.8"
161.0"	164.3"	167.6"	170.9"	174.2"	177.4"	180.7"	184.0"	187.3"	190.6"	193.8"	197.1"
200.4"	203.7"	207.0"	210.2"	213.5"	216.8"	220.1"	223.4"	226.6"	229.9"	233.2"	236.5"
239.8"	243.0"	246.3"	249.6"	252.9"	256.2"	259.4"	262.7"	266.0"	269.3"	272.6"	275.8"
279.1"	282.4"	285.7"	289.0"	292.2"	295.5"	298.8"	302.1"	305.4"	308.6"	311.9"	315.2"
318.5"	321.8"	325.0"	328.3"	331.6"	334.9"	338.2"	341.4"	344.7"	348.0"	351.3"	354.6"
357.8"	361.1"	364.4"	367.7"	371.0"	374.2"	377.5"	380.8"	384.1"	387.4"	390.6"	393.9"
397.2"	400.5"	403.8"	407.0"	410.3"	413.6"	416.9"	420.2"	423.4"	426.7"	430.0"	433.3"
436.6"	439.8"	443.1"	446.4"	449.7"	453.0"	456.2"	459.5"	462.8"	466.1"	469.4"	472.6"
475.9"	479.2"	482.5"	485.8"	489.0"	492.3"	495.6"	498.9"	502.2"	505.4"	508.7"	512.0"
515.3"	518.6"	521.8"	525.1"	528.4"	531.7"	535.0"	538.2"	541.5"	544.8"	548.1"	551.4"
554.6"	557.9"	561.2"	564.5"	567.8"	571.0"	574.3"	577.6"	580.9"	584.2"	587.4"	590.7"
594.0"	597.3"	600.6"	603.8"	607.1"	610.4"	613.7"	617.0"	620.2"	623.5"	626.8"	630.1"
633.4"	636.6"	639.9"	643.2"	646.5"	649.8"	653.0"	656.3"	659.6"	662.9"	666.2"	669.4"
672.7"	676.0"	679.3"	682.6"	685.8"	689.1"	692.4"	695.7"	699.0"	702.2"	705.5"	708.8"
712.1"	715.4"	718.6"	721.9"	725.2"	728.5"	731.8"	735.0"	738.3"	741.6"	744.9"	748.2"
751.4"	754.7"	758.0"	761.3"	764.6"	767.8"	771.1"	774.4"	777.7"			

END FEED LED NEON

Measurement does not include area required for routing power wire. Add 1.5" distance account for routing end feed power wire.

4.5"	7.7"	11.0"	14.3"	17.6"	20.9"	24.1"	27.4"	30.7"	34.0"	37.3"	40.5"
43.8"	47.1"	50.4"	53.7"	56.9"	60.2"	63.5"	66.8"	70.1"	73.3"	76.6"	79.9"
83.2"	86.5"	89.7"	93.0"	96.3"	99.6"	102.9"	106.1"	109.4"	112.7"	116.0"	119.3"
122.5"	125.8"	129.1"	132.4"	135.7"	138.9"	142.2"	145.5"	148.8"	152.1"	155.3"	158.6"
161.9"	165.2"	168.5"	171.7"	175.0"	178.3"	181.6"	184.9"	188.1"	191.4"	194.7"	198.0"
201.3"	204.5"	207.8"	211.1"	214.4"	217.7"	220.9"	224.2"	227.5"	230.8"	234.1"	237.3"
240.6"	243.9"	247.2"	250.5"	253.7"	257.0"	260.3"	263.6"	266.9"	270.1"	273.4"	276.7"
280.0"	283.3"	286.5"	289.8"	293.1"	296.4"	299.7"	302.9"	306.2"	309.5"	312.8"	316.1"
319.3"	322.6"	325.9"	329.2"	332.5"	335.7"	339.0"	342.3"	345.6"	348.9"	352.1"	355.4"
358.7"	362.0"	365.3"	368.5"	371.8"	375.1"	378.4"	381.7"	384.9"	388.2"	391.5"	394.8"
398.1"	401.3"	404.6"	407.9"	411.2"	414.5"	417.7"	421.0"	424.3"	427.6"	430.9"	434.1"
437.4"	440.7"	444.0"	447.3"	450.5"	453.8"	457.1"	460.4"	463.7"	466.9"	470.2"	473.5"
476.8"	480.1"	483.3"	486.6"	489.9"	493.2"	496.5"	499.7"	503.0"	506.3"	509.6"	512.9"
516.1"	519.4"	522.7"	526.0"	529.3"	532.5"	535.8"	539.1"	542.4"	545.7"	548.9"	552.2"
555.5"	558.8"	562.1"	565.3"	568.6"	571.9"	575.2"	578.5"	581.7"	585.0"	588.3"	591.6"
594.9"	598.1"	601.4"	604.7"	608.0"	611.3"	614.5"	617.8"	621.1"	624.4"	627.7"	630.9"
634.2"	637.5"	640.8"	644.1"	647.3"	650.6"	653.9"	657.2"	660.5"	663.7"	667.0"	670.3"
673.6"	676.9"	680.1"	683.4"	686.7"	690.0"	693.3"	696.5"	699.8"	703.1"	706.4"	709.7"
712.9"	716.2"	719.5"	722.8"	726.1"	729.3"	732.6"	735.9"	739.2"	742.5"	745.7"	749.0"
752.3"	755.6"	758.9"	762.1"	765.4"	768.7"	772.0"	775.3"	778.5"			

LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

MOUNTING CHANNELS

NOTE: Leave a 0.5” to 1” gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

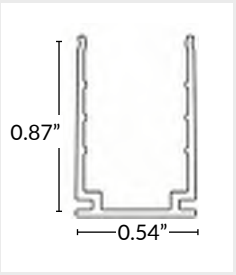
ALUMINUM MOUNTING CHANNEL

Silver anodized finish

Mounting Clip
Recommended 2 clips every 12”
Part Number: LLI-ND-MCL-1.5IN
Dimensions: 1.5” L x 0.87” H x 0.54” W

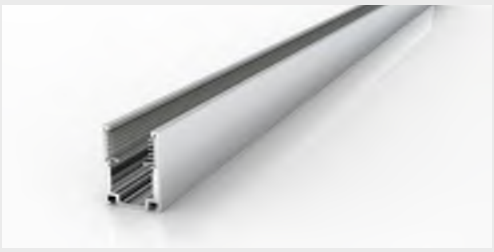
20” Mounting Channel
Part Number: LLI-ND-EXT-20IN
Dimensions: 20” L x 0.87” H x 0.54” W

39” Mounting Channel
Part Number: LLI-ND-EXT-39IN
Dimensions: 39” L x 0.87” H x 0.54” W



SILICONE GRIP ALUMINUM MOUNTING CHANNEL

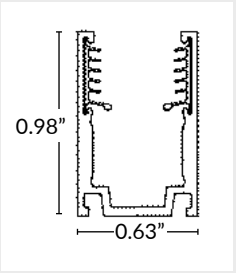
Recommended for ceiling and wall applications
Silver anodized finish



Mounting Clip
Recommended 2 clips every 12”
Part Number: LLI-ND-MCL-SG-1.5IN
Dimensions: 1.5” L x 0.98” H x 0.63” W

20” Mounting Channel
Part Number: LLI-ND-EXT-SG-20IN
Dimensions: 20” L x 0.98” H x 0.63” W

39” Mounting Channel
Part Number: LLI-ND-EXT-SG-39IN
Dimensions: 39.4” L x 0.98” H x 0.63” W



FLEXIBLE STAINLESS STEEL MOUNTING CHANNEL

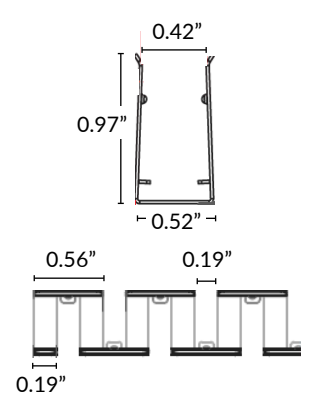
Silver anodized finish

4” Mounting Channel
Part Number: LLI-ND-EXT-F-4IN
Dimensions: 4” L x 0.97” H x 0.52” W

12” Mounting Channel
Part Number: LLI-ND-EXT-F-12IN
Dimensions: 12” L x 0.97” H x 0.52” W

20” Mounting Channel
Part Number: LLI-ND-EXT-F-20IN
Dimensions: 20” L x 0.97” H x 0.52” W

35” Mounting Channel
Part Number: LLI-ND-EXT-F-35IN
Dimensions: 35” L x 0.97” H x 0.52” W

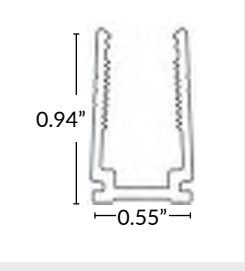


PLASTIC MOUNTING CHANNEL

White finish

20” Mounting Channel
Part Number: LLI-NS-EXT-P-20IN
Dimensions: 20” L x 0.94” H x 0.55” W

39” Mounting Channel
Part Number: LLI-NS-EXT-P-39IN
Dimensions: 39.4” L x 0.94” H x 0.55” W



LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

MOUNTING CHANNELS (CONTINUED)

NOTE: Leave a 0.5” to 1” gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

REINFORCED PLASTIC MOUNTING CHANNEL

Clear plastic

1.5” Mounting Clip

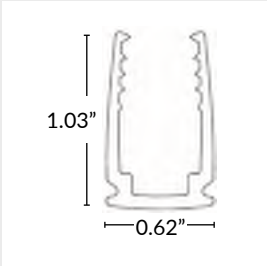
Part Number: LLI-ND-EXT-CP-1.5IN
Dimensions: 1.5” L x 1.03” H x 0.62” W

20” Mounting Channel

Part Number: LLI-ND-EXT-CP-20IN
Dimensions: 20” L x 1.03” H x 0.62” W

39” Mounting Channel

Part Number: LLI-ND-EXT-CP-39IN
Dimensions: 39.4” L x 1.03” H x 0.62” W



RECESSED ALUMINUM MOUNTING CHANNEL

Silver anodized finish

0.8” Mounting Clip

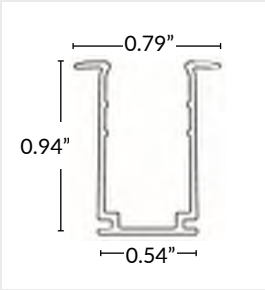
Part Number: LLI-ND-EXT-R-0.8IN
Dimensions: 0.8” L x 0.94” H x 0.79” W

20” Mounting Channel

Part Number: LLI-ND-EXT-R-20IN
Dimensions: 20” L x 0.94” H x 0.79” W

39” Mounting Channel

Part Number: LLI-ND-EXT-R-39IN
Dimensions: 39.4” L x 0.94” H x 0.79” W



RECESSED ALUMINUM MOUNTING CHANNEL WITH SILICONE GRIP

Recommended for ceiling and wall applications
Silver anodized finish

0.8” Mounting Clip

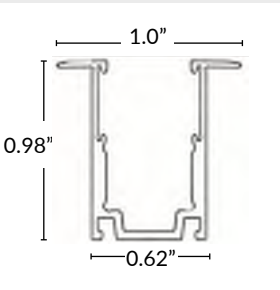
Part Number: LLI-ND-MCL-RSG-0.8IN
Dimensions: 0.8” L x 0.98” H x 1.0” W

20” Mounting Channel

Part Number: LLI-ND-EXT-RSG-20IN
Dimensions: 20” L x 0.98” H x 1.0” W

39” Mounting Channel

Part Number: LLI-ND-EXT-RSG-39IN
Dimensions: 39.4” L x 0.98” H x 1.0” W



BENDABLE SERRATED ALUMINUM MOUNTING CHANNEL

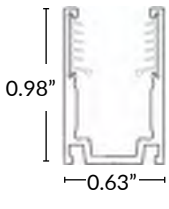
Silver anodized finish

20” Mounting Channel

Part Number: LLI-ND-EXT-BS-20IN
Dimensions: 20” L x 0.98” H x 0.63” W

39” Mounting Channel

Part Number: LLI-ND-EXT-BS-39IN
Dimensions: 39.4” L x 0.98” H x 0.63” W



LINE VOLTAGE STATIC WHITE LED NEON - 120V

Dome Profile / Side Bending / PVC

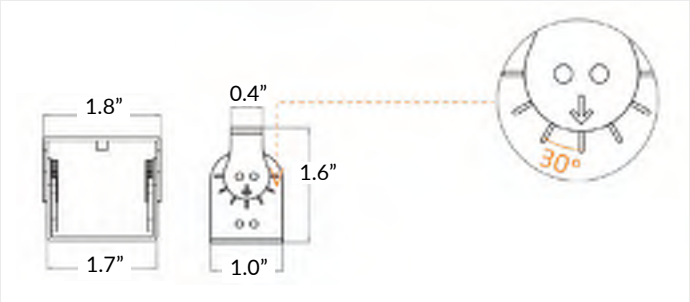
MOUNTING CHANNELS (CONTINUED)

NOTE: Leave a 0.5” to 1” gap between Neon power feed and mounting channel, to avoid undue stress on power feed cables.

ADJUSTABLE MOUNTING BRACKET

Recommended 3 brackets for every 39” channel
Adjusts in 15° increments, notches every 30°

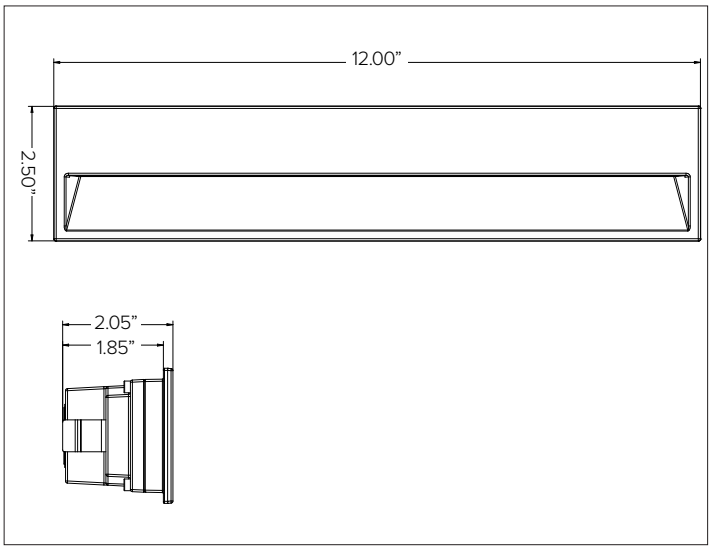
Part Number: LLI-ND-MCL-ADJ
Dimensions: 1” L x 1.6” H x 1.8” W



ZEDGE LINE

Recessed Direct View Linear Line Voltage Steplight

Shown in Ferrite Grey finish.



CONCEPT

Recessed LED steplight for indoor and outdoor applications.
Designed in collaboration with Gensler as Product Design Consultant.

MECHANICAL CHARACTERISTICS

Housing	2.50”H x 12.00”W x 2.05”D
Materials	Die-cast anodized aluminum body and external powder coated frame.
Finish	Textured finish. Ferrite Dark Grey · Heritage Brown · Bronze Black · White · Sandstone Grey
Power Connection	Pre-wired with 6” lead for direct line voltage and dimming connection.
Mounting	To be completed with installation back box for flush or semi-flush installations
BUG	B0–U0–G0
Weight	1.54lbs
Protection	IP66
Impact	IK10

CERTIFICATIONS

cULus Wet Location Listed.
Tested in accordance with LM-79-08.
Compliant for California installations.
RoHS3 EU 215/863

WARRANTY

5 year limited warranty

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Integrated 4/1 smart driver (Non-dimmable / 0-10V / Reverse Phase / Forward Phase). Dimmable to <10% via 0-10V or <15% via Phase.
Wattage	9W
Voltage	Universal Voltage 120-277V AC 50/60Hz
Operating Temp.	-25°C / +35°C

SOURCE

LED High efficiency Board.

TM30	***CCT (Nominal)***	***CRI***	***Rf***	***Rg***	***SDCM***
	2700K	80	83	97.3	2
	3000K	80	82.9	97	2
	3500K	80	83.6	96.5	2
	4000K	80	84	95.7	2

Ra90 available upon request

OPTIC

Polycarbonate opal lens for uniform optical distribution on the floor and excellent visual comfort.

Beam		***88°x48°***
Delivered Lumens	***2700K***	230Lm
	3000K	245Lm
	3500K	251Lm
	4000K	257Lm
Efficacy		31Lm/W max. Refer to photometric graphs for specific values.
Lifetime		L95/B10 30,000hrs at max TA +25°C L91/B10 50,000hrs at max TA +25°C
Photobiological Classification		Low risk photobiological safety RG1

ZEDGE LINE

SPECIFICATION INFORMATION

ZEL	41						/	
1	2	3	4	5	6	7		8
						OPTIONAL		REQUIRED

Ex: ZEL41FWFEL230 / 1E3447

1 - PRODUCT CODE	2 - DRIVER	3 - FACEPLATE	4 - FINISH	5 - WATTAGE	6 - KELVIN	7 - OPTIONAL
ZEL — ZEDGE LINE	**41** — 4/1 Smart Dimming *(Non-Dimming / 0-10V / Reverse Phase / Forward Phase)*	**FW** — Floor Washer	**FE** — Ferrite Dark Grey **HB** — Heritage Brown **BZ** — Bronze **WT** — White **BT** — Black **SG** — Sandstone Grey **RAL** — Custom RAL	**L2** — 9W	**27** — 2700K **30** — 3000K **35** — 3500K **40** — 4000K	**MG**[A] — Marine Grade

8 - INSTALLATION
Installation Box *See section for details*

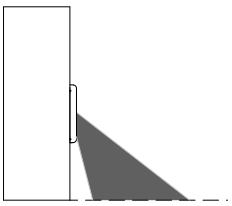
[A] Marine Grade is recommended for use in environments with occasional exposure to salt air, reclaimed water, fertilizers, chemical cleaners, or frequent pressure washing (steam) cleaning. Fixture housing complete with marine grade cataphoresis suitable for use in marine grade environments. Not to be in direct contact with salt or corrosive agents for extended periods of time.

For applicable quick ship items, see model configurations listed below. Lead time for quick ship fixtures is 1-2 weeks from processed PO date. Consult factory for quantities of over 20pcs to confirm lead time.

QS **QSZEL41FWFEL230 + 1E3447**

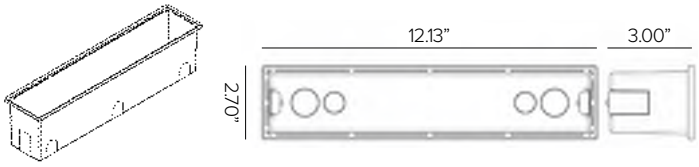
FACEPLATE STYLE

(FW) FLOOR WASHER



ZEDGE LINE

8 – INSTALLATION (REQUIRED)

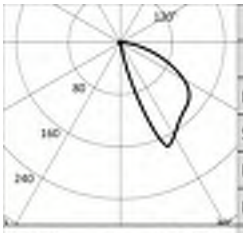


PVC installation back box for flush or semi-flush installations, black finish. ¾” and ½” knock-outs made for EMT connectors and conduit entry. Suitable for concrete pour, drywall, or stucco applications.

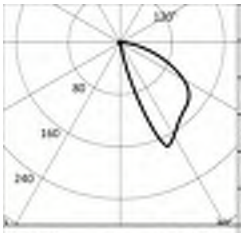
Part No. **1E3447**

ZEDGE LINE

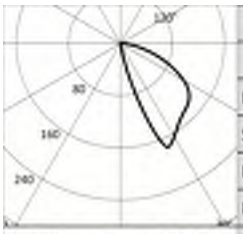
PHOTOMETRY



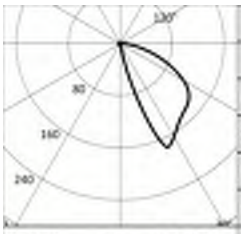
2700K		H(m)	D1(m)	D2(m)	Emax(lx)
Ra80			48°	88°	
Fixture Power	9W	1	1.90	2.12	155
Source Flux	1175lm	2	3.80	4.25	39
Fixture Flux	230lm	3	5.70	6.37	17
Efficacy	26lm/W	4	7.60	8.49	10
TS1128 Imax=174cd/klm	Imax 204cd	5	9.50	10.61	6



3000K		H(m)	D1(m)	D2(m)	Emax(lx)
Ra80			48°	88°	
Fixture Power	9W	1	1.90	2.12	165
Source Flux	1250lm	2	3.80	4.25	41
Fixture Flux	245lm	3	5.70	6.37	18
Efficacy	27lm/W	4	7.60	8.49	10
TS1128 Imax=174cd/klm	Imax 217cd	5	9.50	10.61	7

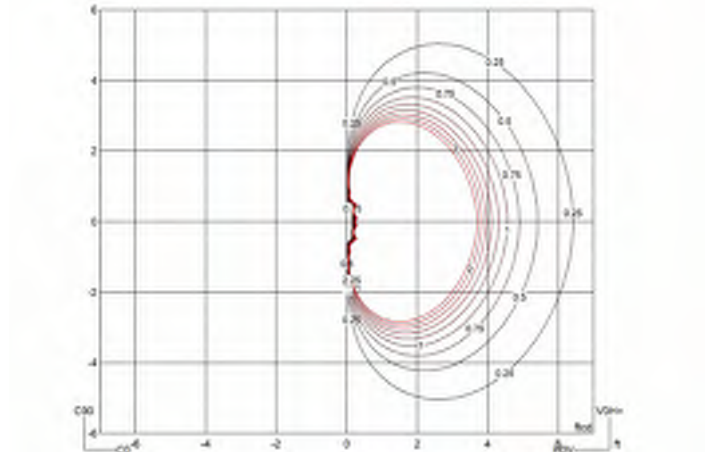


3500K		H(m)	D1(m)	D2(m)	Emax(lx)
Ra80			48°	88°	
Fixture Power	9W	1	1.90	2.12	169
Source Flux	1280lm	2	3.80	4.25	42
Fixture Flux	251lm	3	5.70	6.37	19
Efficacy	31lm/W	4	7.60	8.49	11
TS1128 Imax=174cd/klm	Imax 222cd	5	9.50	10.61	7



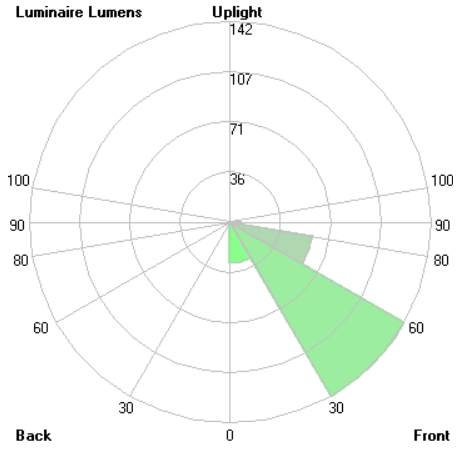
4000K		H(m)	D1(m)	D2(m)	Emax(lx)
Ra80			48°	88°	
Fixture Power	9W	1	1.90	2.12	173
Source Flux	1310lm	2	3.80	4.25	43
Fixture Flux	257lm	3	5.70	6.37	19
Efficacy	29lm/W	4	7.60	8.49	11
TS1128 Imax=174cd/klm	Imax 228cd	5	9.50	10.61	7

ISOLUX DIAGRAM



MOUNTING HEIGHT = 18”

LCS GRAPH



B0-U0-G0

DATE	PROJECT	FIRM	TYPE

THE L50 INCLUDES PATENTED OPTICAL DESIGN THAT DELIVERS THE WIDEST RANGE OF BEAM ANGLE OPTIONS FOR PRECISE COVE, WALL GRAZING, WALL WASHING OR LINE OF LIGHT APPLICATIONS. EXCLUSIVE FLIP TO FLAT™ HINGE DESIGN PROVIDES FLEXIBILITY WHEN MANAGING SMALL COVE DETAILS. TROV OFFERS SMOOTH, FLICKER FREE DIMMING DOWN TO 0%.

FEATURES :

- DIM TO 0%, ELV REVERSE PHASE
- 24 BEAM ANGLES
- MULTI-VOLT
- FLIP TO FLAT™
- 6 CCT OPTIONS
- 80+ AND 90+ CRI OPTIONS
- IP54 INTERIOR AND IP66 EXTERIOR OPTIONS

MODEL/ SIZE	INTERIOR/ EXTERIOR	LENGTH	POWER	CCT	CRI	VOLTAGE	OPTICS
L50	I E	12″ 48″	02 04 06 08 10 12	**WHITE CCT** 27 30 35 40 **MONO COLOR**	80 90*	MULT (120-277V)	**GRAZING** 9 x 9 9 x 17 9 x 29 9 x 59 15 x 15 15 x 23 15 x 35 15 x 65 **COVE** 120** Asym **LINE OF LIGHT** LOL **WASHING** 25 x 25 25 x 33 25 x 45 25 x 75 39 x 9 55 x 25 40 x40 40 x 48 40 x 60 40 x 90 45 x 15 70 x 40 70 x 70
ON DEMAND SHIPPING							
BUILD TO ORDER SHIPPING				22 BL GR**** 50 AM RD***	Blank for color		

EXAMPLE: L50-I-48-10-27-90-MULT-15x65

*90 CRI not available in 2200K or 5000K **120 is only available with Exterior option. See L35 spec sheet for interior cove options. ***Red is not available in 12W or 10W. ****Green is not available in 12W.

PERFORMANCE	WATTS	OPTIC	LUMEN OUTPUT	EFFICACY
	2W	9˚x 29˚	158 lm/LF (519 lm/m)	79 lm/W
	4W	9˚x 29˚	389 lm/LF (1277 lm/m)	97 lm/W
	6W	9˚x 29˚	620 lm/LF (2035 lm/m)	103 lm/W
	8W	9˚x 29˚	864 lm/LF (2833 lm/m)	108 lm/W
	10W	9˚x 29˚	1046 lm/LF (3432 lm/m)	105 lm/W
	12W	9˚x 29˚	1217 lm/LF (3990 lm/m)	101 lm/W

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX 80+, 90+

COLOR CONSISTENCY 2-STEP MACADAM ELLIPSE

LUMEN DEPRECIATION / RATED LIFE

WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
2W-12W	>150,000	>70,000	>50,000	>25,000

*CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

* CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

ELECTRICAL

POWER CONSUMPTION 2W*/LF (6.6W/M) ; 4W/LF (13.2W/M) ; 6W/LF (19.8W/M) ; 8W/LF (26.4W/M) ; 10W/LF (33W/M) ; 12W/FL (39.6W/M)
* 3W/LF (9.9W/M) at 220V -277V

MAX FIXTURE RUN LENGTH

	2W/LF		4W/LF		6W/LF		8W/LF		10W/LF		12W/LF	
Volts	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'	Max Run all 1'	Max Run all 4'
120	214	214	186	186	152	152	114	114	91	91	76	76
220	374	392	340	340	277	277	209	209	95	167	95	139
277	374	494	374	428	349	349	263	263	95	190	95	175

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/resources for the most updated information.

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FREEDOM TO CREATE™

DATE	PROJECT	FIRM	TYPE

	POWER FACTOR	4W, 6W, 8W, 10W, 12W >0.9, 2W<0.9
	OPERATING VOLTAGE	MULTIVOLT: 110-277VAC, 50/60 Hz
	DRIVER	INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS
	STARTUP TEMPERATURE	-40˚F TO 122˚F (-40˚C TO 50˚C)
	OPERATING TEMPERATURE	-40˚F TO 122˚F (-40˚C TO 50˚C)
	STORAGE TEMPERATURE	-40˚F TO 176˚F (-40˚C TO 80˚C)
CONTROL	**DIMMING**	110-277VAC, ELV TYPE 0.07%-100%, REVERSE PHASE, TRAILING EDGE ETC control systems require 0-10V control using Ecosense LDCM. TROV will not work with ETC phase dimmers.
PHYSICAL	**DIMENSIONS**	W 1.6" x H 2" x L 12"/48" ; (41.6mm x 50.5mm x 304.7mm/1201mm)
	HOUSING /LENS	EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS; PLASTIC ENDCAPS RUBBER OVERMOLD FOR CABLE ASSEMBLY
	WEIGHT	1.52LBS / 0.69KG (1FT) ; 4.95LBS / 2.25KG (4FT)
	CONNECTORS	INTEGRAL MALE/ FEMALE CONNECTORS
	ENVIRONMENT	INDOOR • ETL CERTIFIED FOR DRY/DAMP LOCATIONS IP54 OUTDOOR • ETL CERTIFIED FOR WET LOCATIONS IP66 IMPACT RATED TO IK10 Not intended to be used in water features such as waterfalls, fountains, etc.
	BEAM ANGLE	GRAZING, WASHING, COVE, ASYMMETRIC, LINE OF LIGHT
	MOUNTING OPTIONS	INTEGRAL MOUNTING AND ADJUSTABLE AIMING FROM 0˚-180˚ IN 15˚ INCREMENTS
FIXTURE RATING & CERTIFICATIONS	**ETL CERTIFIED** **RoHS COMPLIANT** **RCM CERTIFIED**	Title 24 JA8-2016 *90 CRI models only
LIMITED WARRANTY	**5 YEARS**	

WIRING OPTIONS (MVOLT): 110-277VAC

Power Cable Assembly, TROV, Leader/Jumper, 10 foot **CBL-3P-L-UNV-10***
Power Cable Assembly, TROV, Leader/Jumper, 50 foot **CBL-3P-L-UNV-50***
Power Cable Assembly, TROV, Jumper, 5 foot **CBL-3P-L-UNV-05****
Power Cable Assembly, TROV, Jumper, 1 foot **CBL-3P-L-UNV-01****
Power Cable Assembly, TROV, Adjustable Jumper, 0" to 7" **CBL-3P-L-UNV-ADJ**
Power Cable Assembly, TROV, Male and Female terminator caps **CBL-3P-L-UNV-CAPS**

*Two (2) terminators are included with the 10' and 50' power cable. One Leader need per circuit/fixture run. Cables are not plenum rated.
** If using the 5' or 1' power cable assembly as a leader to power a run, one set of CBL-3P-L-UNV-CAPS will also be needed per cable.

0-10V CONTROL OPTIONS

100-120VAC / 277VAC Linear Dimming Control Module 0-10V - Plenum Rated **LDCM-PL-120-277-010V-GR**
All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Mounting

Mounting Track and Clips Set, 48 Inch Track, 8 Clips ..... **MNT-L-TRKCLIP-48** ..... 48" track and clips set will work with one 48" fixture or four 12" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track and Clips Set, 12 Inch Track, 2 Clips ..... **MNT-L-TRKCLIP-12** ..... 12" track will not work with 48" fixtures. (FOR INTERIOR USE ONLY)
Mounting Track Clip, TROV, Set of 2 ..... **MNT-L-CLIP** ..... Clips needed = 12" fixtures need 1 set of 2 and 48" fixture needs 2 sets of 2.
90 Degree L bracket, TROV, Set of 2 ..... **MNT-L-LBKT** ..... L-Brackets needed = 12" fixtures need 1 set of 2 and 48" fixture needs 1 set of 2.
Angle Locking Clip, TROV, Pack of 10 ..... **MNT-L-ANGLOCK** ..... Angle Locks needed = 12" fixtures need 1 and 48" fixtures need 2. (Must order separately)
Mounting, Fine Adjustment Bracket, TROV ..... **MNT-L-FAB** ..... Fine Adjustment Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment Bracket is highly recommended for Grazing Optics.
Mounting, Fine Adjustment L-Bracket, TROV ..... **MNT-L-LFAB** ..... Fine Adjustment L-Brackets needed = 12" fixtures need 1 and 48" fixtures need 2.
*Fine Adjustment L-Bracket is recommended for Asymetric Optics when aiming is needed.

Snap-on Lenses

Snap-on Lens, Frosted, 12 inch, L50 ..... **LENS-L50-FROST-12**
Snap-on Lens, Frosted, 48 inch, L50 ..... **LENS-L50-FROST-48**
Snap-on Lens, Clear, 12 inch, L50 ..... **LENS-L50-CLEAR-12**
Snap-on Lens, Clear, 48 inch, L50 ..... **LENS-L50-CLEAR-48**

Snap-on Lenses need = One 12" lens is needed per 12" fixture and one 48" lens is needed per 48" fixture. Snap on Lenses will not work with the asymmetric fixture. Clear lenses can be used to hold colored filters to customize the output color of any TROV fixture, except the ASYM. Color filters supplied by others.

Wall Mount Arm

Wall Mount Arm, 6 inch, TROV **WMA-L-CA-06**
Wall Mount Arm, 12 inch, TROV **WMA-L-CA-12**
Wall Mount Arm, 18 inch, TROV **WMA-L-CA-18**
Wall Mount Arm, 24 inch, TROV **WMA-L-CA-24**
Wall Mount Arm End Plate Set, TROV, Includes Left and Right ..... **WMA-L-END**
Wall Mount Arm Joiner Plate, TROV ..... **WMA-L-JNR**

Wall Mount Arms needed = For individual fixture installations two arms and one end set will be needed per fixture. For continuous run installation one end set will be needed per run. Each end set contains one left and one right end plate. One joining set will be needed per joint. One arm per fixture will be needed plus one extra arm to complete the run. For example: A 10ft run made with two 4ft and two 1ft fixtures will contain; 1 x WMA-L-END, 3 x WMA-L-JNR, and 5 x WMA-L-CA-12. Leader cables are not included with wall mount arms, end sets, or joiners sets.

ECOSENSE LIGHTING INC.
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SUITE 103
LOS ANGELES, CA 90012

SUPPORT@ECOSENSELIGHTING.COM

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FREEDOM TO CREATE™

DATE	PROJECT	FIRM	TYPE

Louvers

Louver, Asymmetric, 12 inch, L50 ..... LV-L50-ASYM-12
Louver, Asymmetric, 48 inch, L50 ..... LV-L50-ASYM-48
Louver, Symmetric, 12 inch, L50 ..... LV-L50-SYM-12
Louver, Symmetric, 48 inch, L50 ..... LV-L50-SYM-48
Louver, Honeycomb, 12 inch, L50 ..... LV-L50-HCOMB-12
Louver, Honeycomb, 48 inch, L50 ..... LV-L50-HCOMB-48

Louvers Needed = One 12" louver is needed per 12" fixture and one 48" louver is needed per 48" fixture. 48" louver is made up of four 12" louvers.
Louvers cannot be used with the asymmetric fixture

OPTIONAL ACCESSORIES

Masking Plates

Masking Plate, 3 inch high, 12 inch, L50 & L35 ..... MP-L50-3H-12
Masking Plate, 3 inch high, 48 inch, L50 & L35 ..... MP-L50-3H-48

Masking Plates needed = One 12" plate is needed per 12" fixture and one 48" plate is needed per 48" fixture.

Landscape Stake

Landscape Stake, 6 inch, TROV, Set of 2 ..... LS-L-STK-06
Landscape Stake, 12 inch, TROV, Set of 2 ..... LS-L-STK-12
Landscape Stake, 18 inch, TROV, Set of 2 ..... LS-L-STK-18

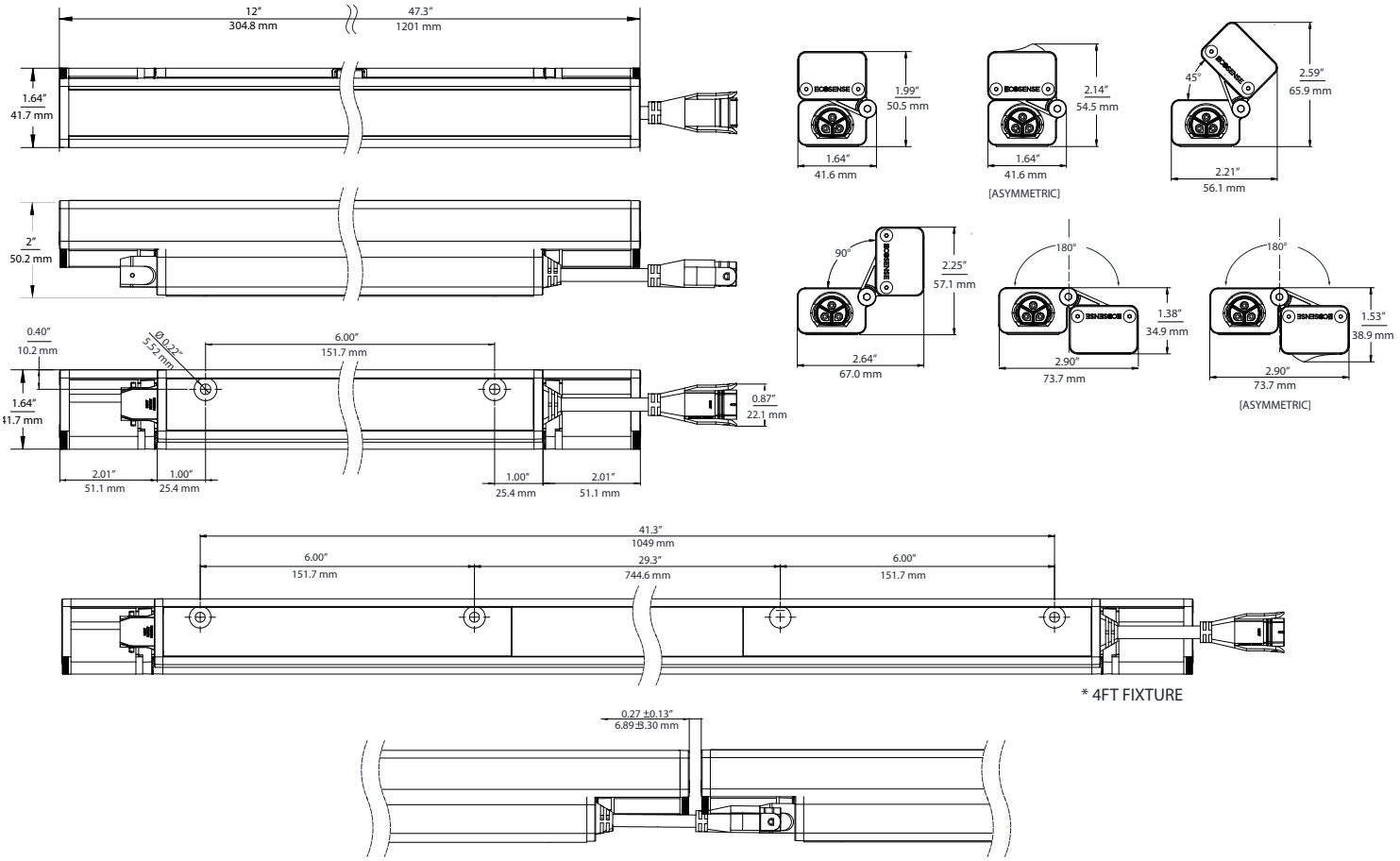
Landscape Stakes needed = 12" and 48" fixtures both need one set of 2.

Wire Box

Conduit Connection, Wire Box, TROV, Interior Only, L50 .....CC-L-WIREBOX

Wire box can be used instead of a leader cable to start a run. 1/2" conduit fitting can attach directly to the box on one end and the fixture to the other.

DIMENSIONS + MOUNTING



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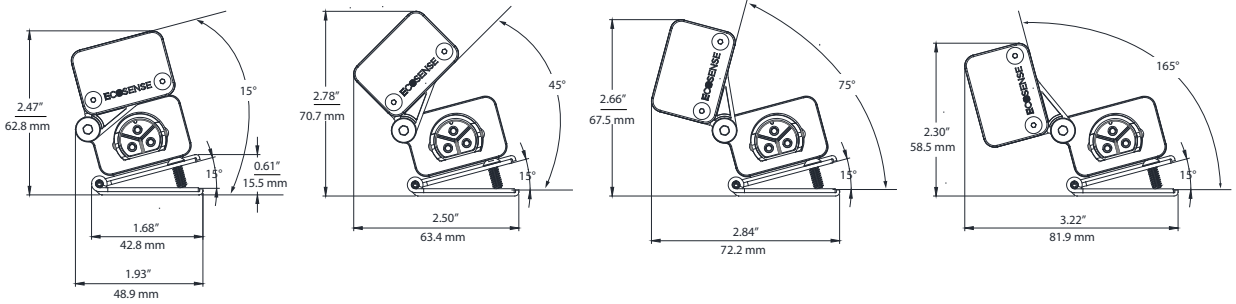
FREEDOM TO CREATE™

DATE	PROJECT	FIRM	TYPE

Fine Adjustable Bracket:



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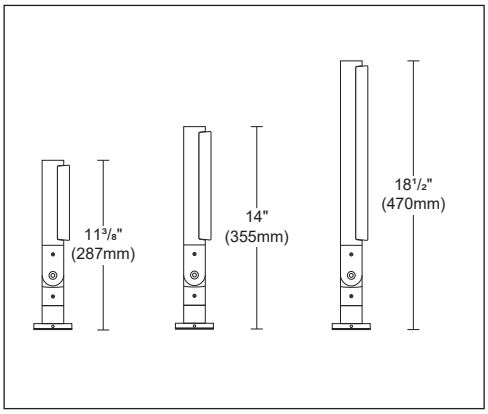
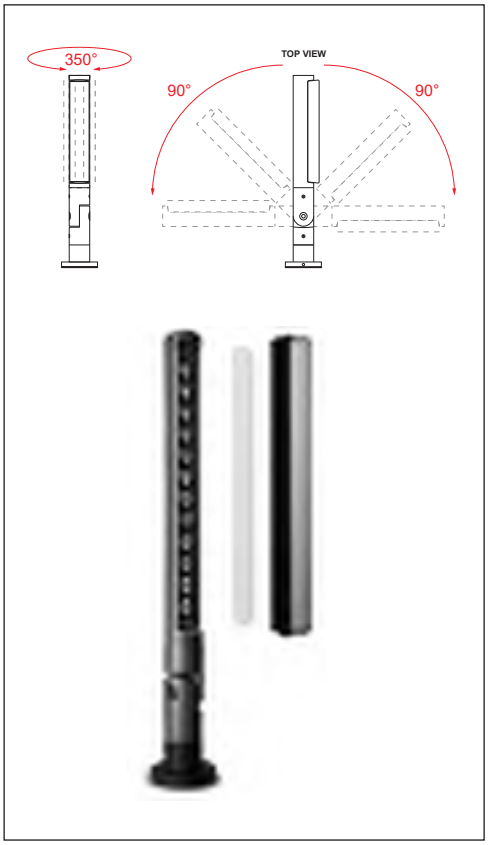
FREEDOM TO CREATE™





Luminaire characteristics

SIZE	TOTAL INPUT	OPTIC	LUMEN (lm)*	EFFICACY (lm/W)*	MAX CANDELA (cd)*
SMALL	14W	Spot 10°	573	41	10 261
		Flood 32°	470	34	1 453
		Wide flood 60°	363	26	495
		Elliptical 60° x 10°	430	31	2 379
MEDIUM	24.5W	Spot 10°	940	38	17 094
		Flood 32°	799	33	2 608
		Wide flood 60°	596	24	820
		Elliptical 60° x 10°	692	28	3 997
LARGE	34W	Spot 10°	1705	51	42 206
		Flood 32°	1418	42	4 730
		Wide flood 60°	1023	30	1 450
		Elliptical 60° x 10°	1218	38	7 633

*For 3000K, 90CRI

Source:
White LED
2700K: 90CRI,
3000K: 90CRI,
4000K: 80CRI.

Lumen maintenance:
80% of initial lumens at 70 000 hours (L80 B10)
T77°F (25°C)
80% of initial lumens at 50 000 hours (L80 B10)
T104°F (40°C) (LM-80)

Optics:
Spot, flood, wide flood and elliptical. Optics are achieve with filters already install in fixture. See effect on page 2 and codes for extra filters. Optical filter are easily interchangeable and can be ordered separately.

Material:
Body: die-cast aluminum
Diffuser: 1/16" (2mm) clear toughened glass
Hardware: stainless steel screws

Mounting:
Surface mounted. Optional canopy for standard octagonal junction box installation.
Soil. Optional stake to be ordered separately.
Pole mounted. Optional flange to be ordered separately
Supplied with 5m of CMP outdoor suitable 2/22AWG cable.

Electrical:
High efficiency dimmable remote LED driver, rated at 50 000 hours. 120V/277V. See remote power supply options on page 3.

Dimming:
Leading (Triac) and trailing edge(ELV), down to 15% and 0-10V down to 0.1% (120-277V). See dimming options on page 3.

Temperature of operation:
-4°F to 122°F (-20°C to 50°C)

Finish:
Standard finish
24

Premium finishes
01 07 09 14 20

Anthracite gray painted finish. Double powder paint coat in 3 steps process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions. See page 2 for other premium finishes available (white, green, black, gray & burnish bronze)

Weight:
Small: 2.86lb (1.3kg)
Medium: 3.30lb (1.5kg)
Large: 3.99lb (1.81kg)

Warranty:
5 year limited warranty.

Ratings:
IP66, IK07

Certification:
cULus for wet location.

Due to continuous improvements, the information herein may be changed without notice
SISTEMALUX
9320 Boul. St-Laurent, suite 100, Montréal (Québec) Canada H2N 1N7, P.: 514.523.1339 F.: 514.525.6107 www.sistemalux.com

ORDERING INFO

CLICK HERE

CONFIGURE

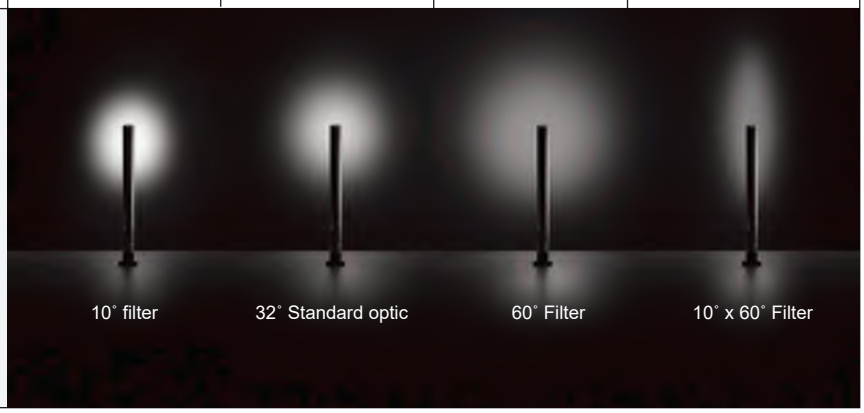
-REM
PRODUCT CODE

MODEL	LED	OPTIC[1]	MOUNTING	VOLTAGE	FINISH
S1751 Small 4 LED **S1761** Medium 7 LED **S1771** Large 12 LED	**H** 2700K, 90CRI **W** 3000K, 90CRI **N** 4000K, 80CRI	**SP** Spot (10°) **FL** Flood (32°) **WF** Wide flood (60°) **ELL** Elliptical (60° x 10°)	**FW** Surface, pole or soil mounting, no junction box **JB** Surface mounting, with junction box	**REM** Remote	**24** Anthracite gray *PREMIUM* **01** White **07** Green **09** Black **14** Gray **20** Burnished bronze

1 Optics are achieve with filters already install in fixture. See effect below and codes for extra filters.

EXTRA OPTICAL FILTER (To be ordered seperately)

MODEL	SPOT 10˚	FLOOD 32˚	WIDE FLOOD 60˚	ELLIPTICAL 60˚ X 10˚
SMALL S1751	S1752	STANDARD OPTIC INCLUDED	S1753	S1754
MEDIUM S1761	S1762	STANDARD OPTIC INCLUDED	S1763	S1764
LARGE S1771	S1772	STANDARD OPTIC INCLUDED	S1773	S1774

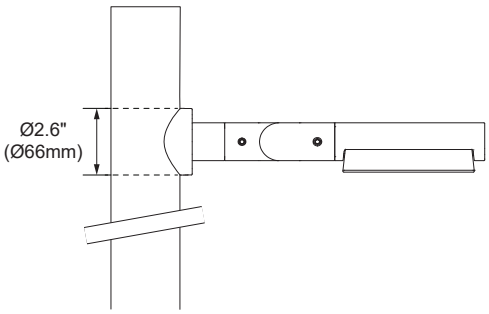


POLE MOUNTING

FLANGE FOR POLE INSTALLATION

Pole Ø: 2⅜" (60mm) or 3" (76mm)

	Dimensions	Length	Weight
☐ **S1758**	Ø2.6" x 0.75" (Ø66mm x 19mm)	2⅜" (60mm)	0.11lb (0.05kg)



POLE INFORMATIONS

POLE Ø2⅜" (Ø60mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

HEIGHT: _____ FT

MODEL: Straight

INSTALLATION: Anchor bolts

MATERIAL:
☐ Aluminum
☐ Galvanized steel

POLE Ø3" (Ø76mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

FINISH [1]:
☐ 01 - White (RAL9016)
☐ 07 - Green (RAL6028)
☐ 09 - Black (RAL9005)
☐ 14 - Aluminium gray (RAL9006)
☐ 20 - Burnished bronze (RAL8019)
☐ 24 - Anthracite gray (RAL7022)
☐ Custom RAL _____

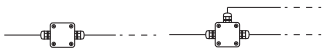
MODELS	EPA
SMALL 4 LED	0.030ft² (0,009 m²)
MEDIUM 7 LED	0.043ft² (0,016m²)
LARGE 12 LED	0.57ft² (0,021m²)

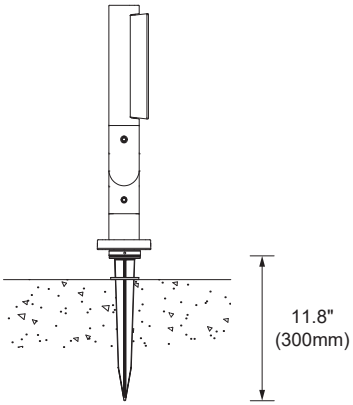
1 We provide RAL numbers that are similar, but we cannot guarantee an exact color match.
For a more accurate color and gloss match, please contact customer service for a sample chip.

STAKE IN POLYPROPYLENE

2" of the upper part stay out of the ground

	Dimensions	Length	Weight
☐ **S1768**	Ø2.6" x 11.8" (Ø66mm x 300mm)	11.8" (300mm)	0.11lb (0.05kg)

☐ **4543-00** Wet location junction box 



REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

-REM
PRODUCT CODE

Outdoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4548-0850-035-120-LTE	2	1	1
4549-0850-040-UNV-D10	1-3	1-2	1
4549-0850-046-UNV-ED10	1-3	1-2	1
4549-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4549-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

Indoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4445-0850-035-120-LTE	2	1	1
4450-0850-040-UNV-D10	1-3	1-2	1
4450-0850-046-UNV-ED10	1-3	1-2	1
4450-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4448-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

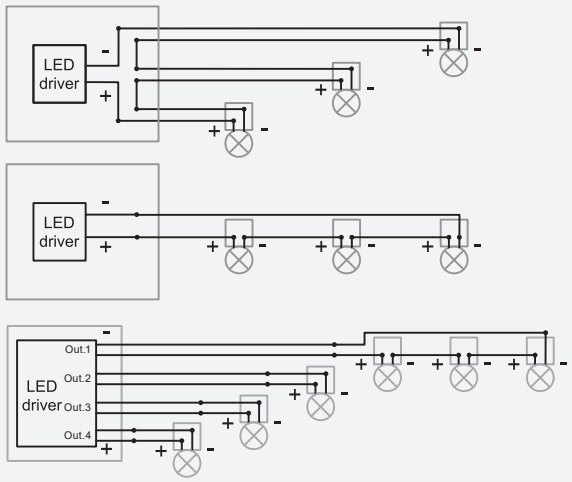
*Represent LED source wattage for one (1) fixture.

Driver code example

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4445 6" x 6" x 3" (152 x 152 x 76mm) **4448** 10" x 8" x 4" (254 x 203x 101mm) **4450** 8" x 8" x 4" (203 x 203x 101mm) **4548** 6" x 4.5" x 3" (152 x 114 x 76mm) **4549** 14.5" x 5" x 3.5" (368 x 127 x 89mm)	**0850** 850 mA	**035 to 100**	**120** 120V **UNV** 120-277V	**LTE** Leading edge and trailing edge (ELV and TRIAC) Max distance: 9m (30ft)[1] Down to 15%) **D10** 0-10V Max distance: 100m (330ft)[1] (down to 0.1%) **ED10** 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)[1] (down to 1%) **SD10** 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)[1] (down to 0.1%)

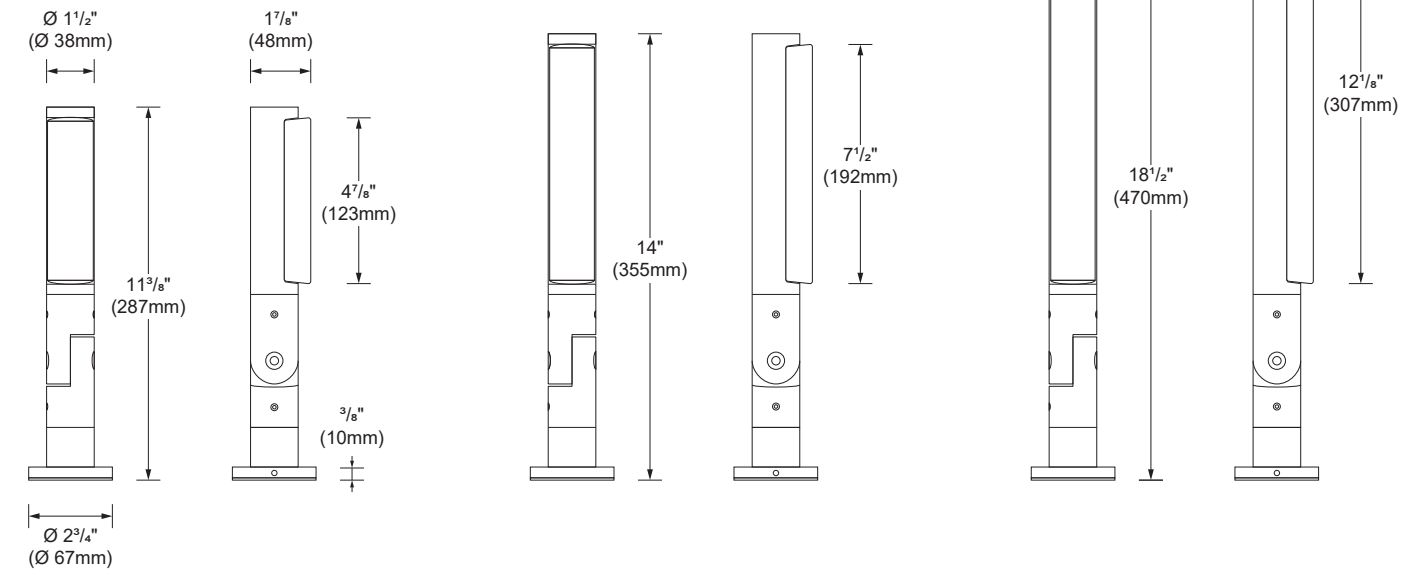
[1] Max distance cable calculated for 16AWG cable at full load. Contact customer service for longer remote distance.

WIRING DIAGRAMS
Fixture must be connected in series.

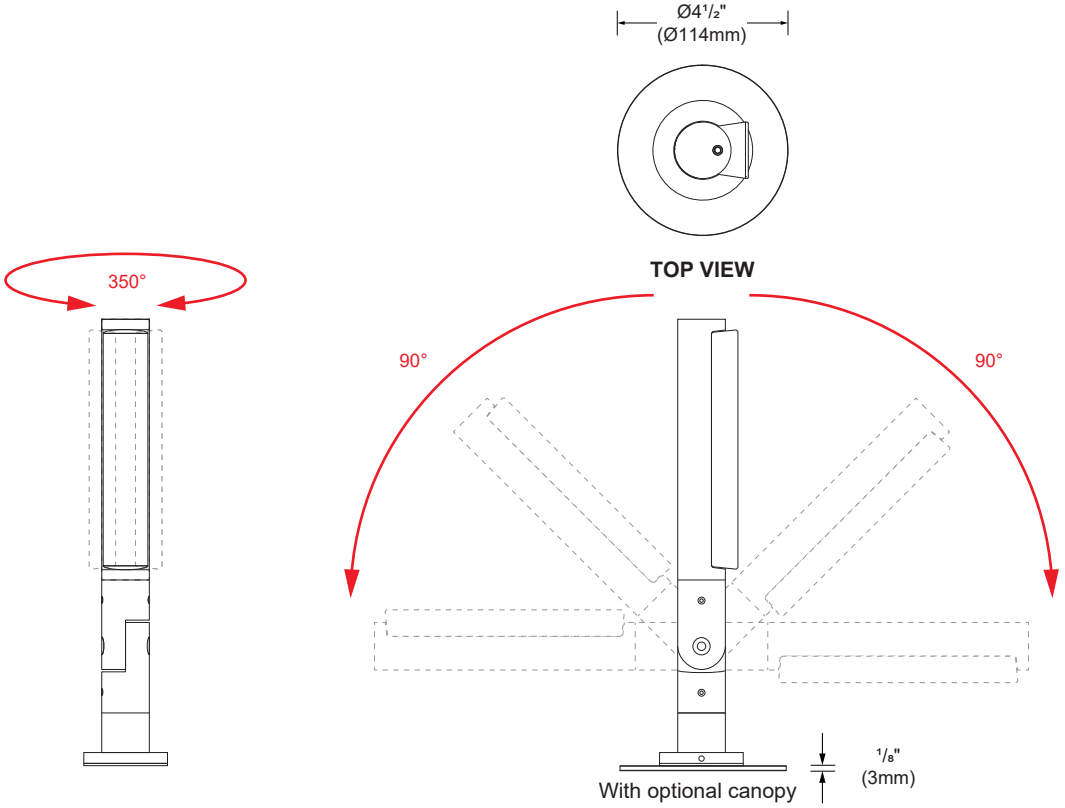


DIMENSIONS

Small S1751	Medium S1761	Large S1771



FRONT VIEW **SIDE VIEW** **FRONT VIEW** **SIDE VIEW** **FRONT VIEW** **SIDE VIEW**



TOP VIEW

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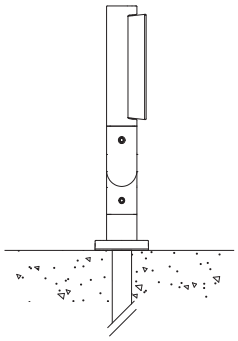
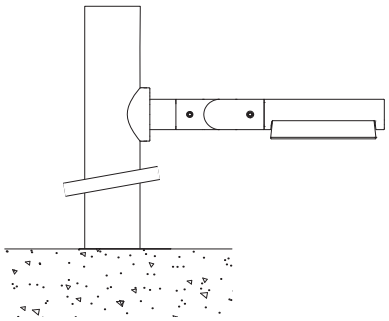
MOUNTING OPTIONS

SURFACE



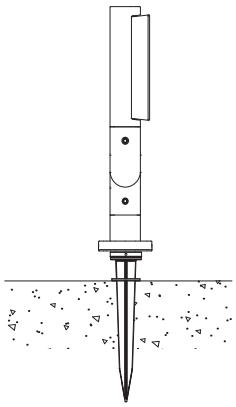
FW-REM - Fixture whip to remote power supply. Installed directly to surface with recessed pipe, exposed cable or electrical conduit.

POLE



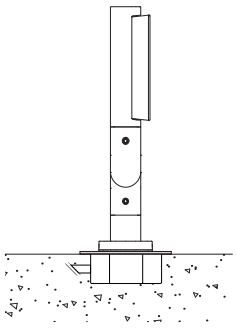
FW-REM - Mounting on pole with a die-cast aluminium flange suitable only for 2 3/8" (60mm)/ 3" (76mm) poles.

SOIL



FW-REM - Mounting on stake. 2" of the upper part stay out of the ground.

SURFACE ON JUNCTION BOX



JB-REM - 4" junction box with remote power supply. Mounting adapter plate for standard octagonal junction box installation.

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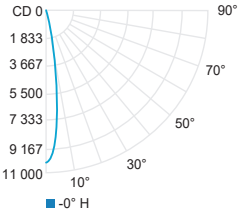
PHOTOMETRIC DATA

SMALL

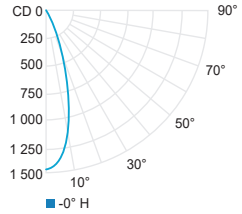
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	14W	Spot 10°	573	41	10 261	S1751W-SP
			Flood 32°	470	34	1 453	S1751W-FL
			Wide flood 60°	363	26	495	S1751W-WF
			Elliptical 60° x 10°	430	31	2 379	S1751W-ELL

Spot 10° (3000K, 90CRI)



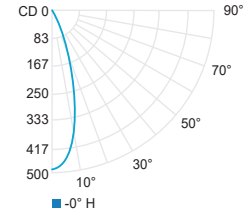
	Center beam fc	Beam width ft
2ft	2 562	0.4
4ft	640	0.9
6ft	285	1.3
8ft	160	1.7
10ft	102	2.1
12ft	71.2	2.6

Flood 32° (3000K, 90CRI)



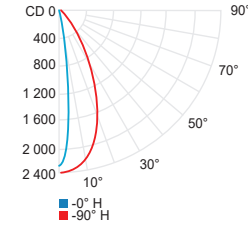
	Center beam fc	Beam width ft
2ft	363	0.4
4ft	90.8	0.9
6ft	40.4	1.3
8ft	22.7	1.7
10ft	14.5	2.1
12ft	10.1	2.6

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	124	2.0
4ft	31	4.1
6ft	13.8	6.1
8ft	7.74	8.1
10ft	4.96	10.1
12ft	3.44	12.2

Elliptical 60° x 10° (3000K, 90CRI)

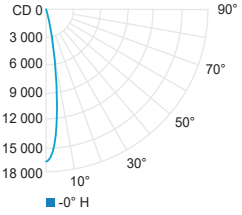


	Center beam fc	Beam width ft
2ft	363	1.2
4ft	90.8	2.3
6ft	40.4	3.5
8ft	22.7	4.7
10ft	14.5	5.8
12ft	10.1	7.0

MEDIUM

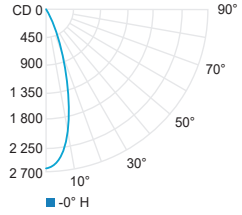
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	24.5W	Spot 10°	940	38	17 094	S1761W-SP
			Flood 32°	799	33	2 608	S1761W-FL
			Wide flood 60°	596	24	820	S1761W-WF
			Elliptical 60° x 10°	692	28	3 997	S1761W-ELL

Spot 10° (3000K, 90CRI)



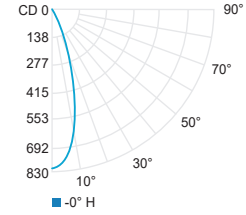
	Center beam fc	Beam width ft
2ft	4 267	0.4
4ft	1 067	0.8
6ft	474	1.3
8ft	267	1.7
10ft	171	2.1
12ft	119	2.5

Flood 32° (3000K, 90CRI)



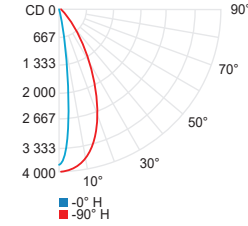
	Center beam fc	Beam width ft
2ft	652	1.1
4ft	163	2.3
6ft	72.5	3.4
8ft	40.8	4.5
10ft	26.1	5.7
12ft	18.1	6.8

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	205	2.0
4ft	51.3	4.0
6ft	22.8	6.0
8ft	12.8	8.0
10ft	8.20	10.0
12ft	5.69	12.1

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	991	0.3
4ft	248	0.7
6ft	110	1.0
8ft	62.0	1.3
10ft	39.7	1.7
12ft	27.5	2.0

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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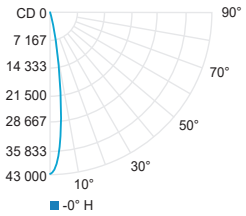
PHOTOMETRIC DATA

LARGE

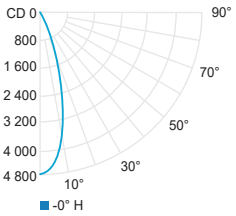
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	34W	Spot 10°	1 705	51	42 206	S1771W-SP
			Flood 32°	1 418	42	4 730	S1771W-FL
			Wide flood 60°	1 023	30	1 450	S1771W-WF
			Elliptical 60° x 10°	1 218	36	7 633	S1771W-ELL

Spot 10° (3000K, 90CRI)



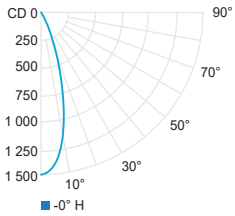
	Center beam fc	Beam width ft
2ft	10 531	0.4
4ft	2 633	0.7
6ft	1 170	1.1
8ft	658	1.4
10ft	421	1.8
12ft	293	2.2

Flood 32° (3000K, 90CRI)



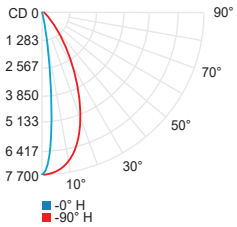
	Center beam fc	Beam width ft
2ft	1 183	1.1
4ft	296	2.2
6ft	131	3.4
8ft	73.9	4.5
10ft	47.3	5.6
12ft	32.9	6.7

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	363	2.0
4ft	90.7	4.0
6ft	40.3	5.9
8ft	22.7	7.9
10ft	14.5	9.9
12ft	10.1	11.9

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	1 898	0.3
4ft	475	0.6
6ft	211	0.9
8ft	119	1.3
10ft	75.9	1.6
12ft	52.7	1.9

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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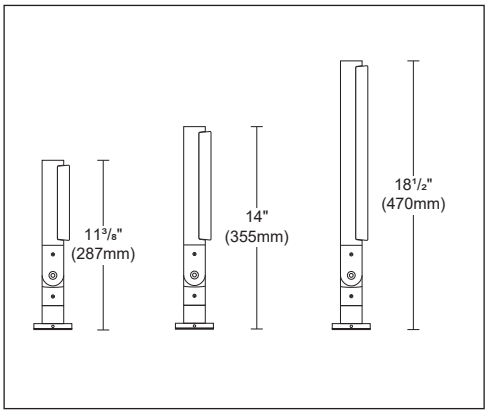

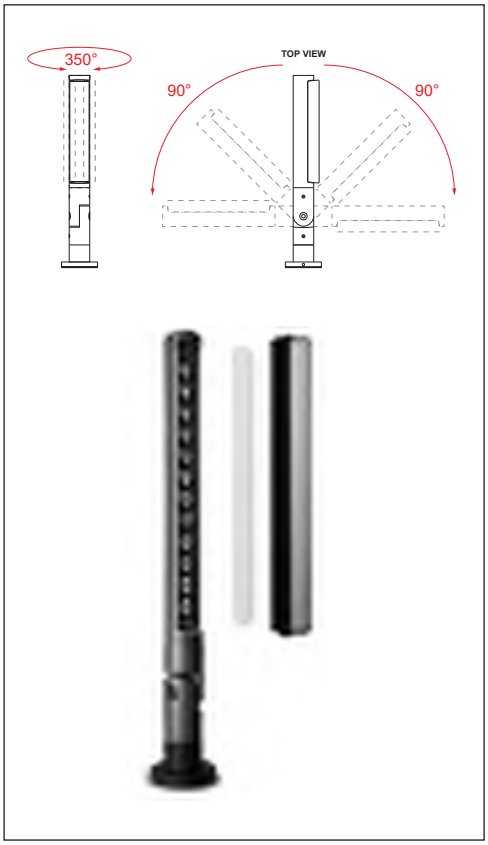

Luminaire characteristics

SIZE	TOTAL INPUT	OPTIC	LUMEN (lm)*	EFFICACY (lm/W)*	MAX CANDELA (cd)*
SMALL	14W	Spot 10°	573	41	10 261
		Flood 32°	470	34	1 453
		Wide flood 60°	363	26	495
		Elliptical 60° x 10°	430	31	2 379
MEDIUM	24.5W	Spot 10°	940	38	17 094
		Flood 32°	799	33	2 608
		Wide flood 60°	596	24	820
		Elliptical 60° x 10°	692	28	3 997
LARGE	34W	Spot 10°	1705	51	42 206
		Flood 32°	1418	42	4 730
		Wide flood 60°	1023	30	1 450
		Elliptical 60° x 10°	1218	38	7 633

*For 3000K, 90CRI

Source:
White LED
2700K: 90CRI,
3000K: 90CRI,
4000K: 80CRI.

Lumen maintenance:
80% of initial lumens at 70 000 hours (L80 B10)
T77°F (25°C)
80% of initial lumens at 50 000 hours (L80 B10)
T104°F (40°C) (LM-80)

Optics:
Spot, flood, wide flood and elliptical. Optics are achieve with filters already install in fixture. See effect on page 2 and codes for extra filters. Optical filter are easily interchangeable and can be ordered separately.

Material:
Body: die-cast aluminum
Diffuser: 1/16" (2mm) clear toughened glass
Hardware: stainless steel screws

Mounting:
Surface mounted. Optional canopy for standard octagonal junction box installation.
Soil. Optional stake to be ordered separately.
Pole mounted. Optional flange to be ordered separately
Supplied with 5m of CMP outdoor suitable 2/22AWG cable.

Electrical:
High efficiency dimmable remote LED driver, rated at 50 000 hours. 120V/277V. See remote power supply options on page 3.

Dimming:
Leading (Triac) and trailing edge(ELV), down to 15% and 0-10V down to 0.1% (120-277V). See dimming options on page 3.

Temperature of operation:
-4°F to 122°F (-20°C to 50°C)

Finish:
Standard finish
24

Premium finishes
01 07 09 14 20

Anthracite gray painted finish. Double powder paint coat in 3 steps process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions. See page 2 for other premium finishes available (white, green, black, gray & burnish bronze)

Weight:
Small: 2.86lb (1.3kg)
Medium: 3.30lb (1.5kg)
Large: 3.99lb (1.81kg)

Warranty:
5 year limited warranty.

Ratings:
IP66, IK07

Certification:
cULus for wet location.

Due to continuous improvements, the information herein may be changed without notice
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ORDERING INFO

CLICK HERE

CONFIGURE

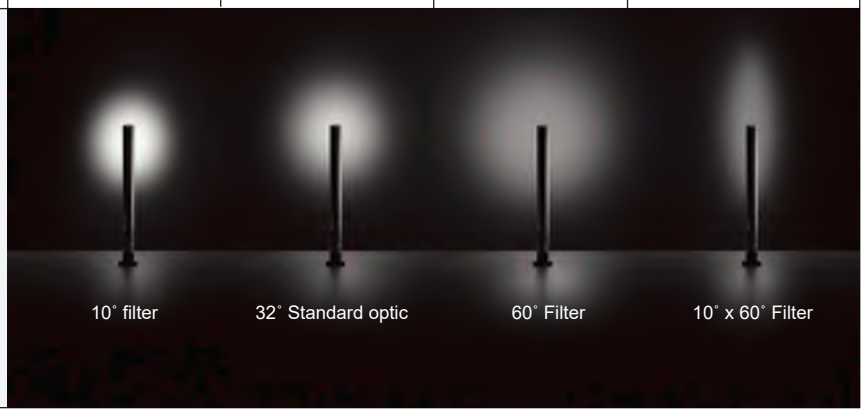
-REM
PRODUCT CODE

MODEL	LED	OPTIC[1]	MOUNTING	VOLTAGE	FINISH
S1751 Small 4 LED **S1761** Medium 7 LED **S1771** Large 12 LED	**H** 2700K, 90CRI **W** 3000K, 90CRI **N** 4000K, 80CRI	**SP** Spot (10°) **FL** Flood (32°) **WF** Wide flood (60°) **ELL** Elliptical (60° x 10°)	**FW** Surface, pole or soil mounting, no junction box **JB** Surface mounting, with junction box	**REM** Remote	**24** Anthracite gray *PREMIUM* **01** White **07** Green **09** Black **14** Gray **20** Burnished bronze

1 Optics are achieve with filters already install in fixture. See effect below and codes for extra filters.

EXTRA OPTICAL FILTER (To be ordered seperately)

MODEL	SPOT 10˚	FLOOD 32˚	WIDE FLOOD 60˚	ELLIPTICAL 60˚ X 10˚
SMALL S1751	S1752	STANDARD OPTIC INCLUDED	S1753	S1754
MEDIUM S1761	S1762	STANDARD OPTIC INCLUDED	S1763	S1764
LARGE S1771	S1772	STANDARD OPTIC INCLUDED	S1773	S1774

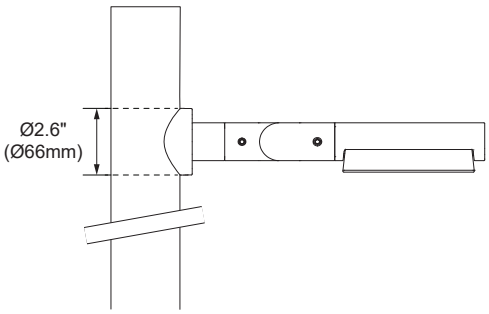


POLE MOUNTING

FLANGE FOR POLE INSTALLATION

Pole Ø: 2⅜" (60mm) or 3" (76mm)

	Dimensions	Length	Weight
☐ **S1758**	Ø2.6" x 0.75" (Ø66mm x 19mm)	2⅜" (60mm)	0.11lb (0.05kg)



POLE INFORMATIONS

POLE Ø2⅜" (Ø60mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

HEIGHT: _____ FT

MODEL: Straight

INSTALLATION: Anchor bolts

MATERIAL:
☐ Aluminum
☐ Galvanized steel

POLE Ø3" (Ø76mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

FINISH [1]:
☐ 01 - White (RAL9016)
☐ 07 - Green (RAL6028)
☐ 09 - Black (RAL9005)
☐ 14 - Aluminium gray (RAL9006)
☐ 20 - Burnished bronze (RAL8019)
☐ 24 - Anthracite gray (RAL7022)
☐ Custom RAL _____

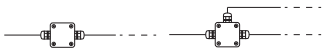
MODELS	EPA
SMALL 4 LED	0.030ft² (0,009 m²)
MEDIUM 7 LED	0.043ft² (0,016m²)
LARGE 12 LED	0.57ft² (0,021m²)

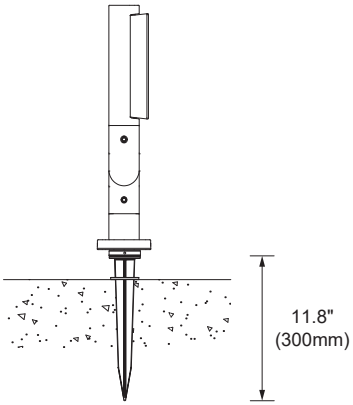
1 We provide RAL numbers that are similar, but we cannot guarantee an exact color match.
For a more accurate color and gloss match, please contact customer service for a sample chip.

STAKE IN POLYPROPYLENE

2" of the upper part stay out of the ground

	Dimensions	Length	Weight
☐ **S1768**	Ø2.6" x 11.8" (Ø66mm x 300mm)	11.8" (300mm)	0.11lb (0.05kg)

☐ **4543-00** Wet location junction box 



REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

-REM
PRODUCT CODE

Outdoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4548-0850-035-120-LTE	2	1	1
4549-0850-040-UNV-D10	1-3	1-2	1
4549-0850-046-UNV-ED10	1-3	1-2	1
4549-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4549-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

Indoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4445-0850-035-120-LTE	2	1	1
4450-0850-040-UNV-D10	1-3	1-2	1
4450-0850-046-UNV-ED10	1-3	1-2	1
4450-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4448-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

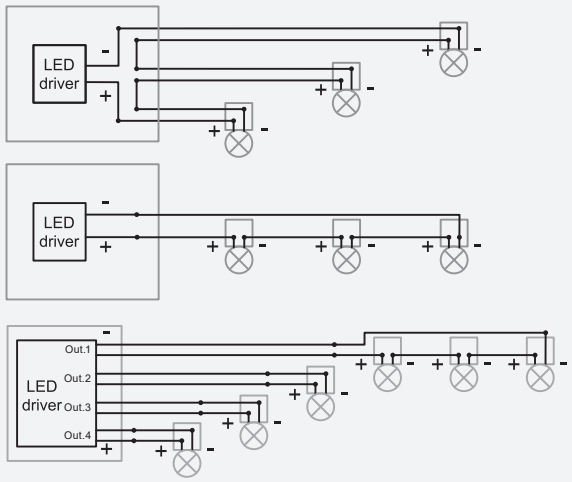
*Represent LED source wattage for one (1) fixture.

Driver code example

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4445 6" x 6" x 3" (152 x 152 x 76mm) **4448** 10" x 8" x 4" (254 x 203x 101mm) **4450** 8" x 8" x 4" (203 x 203x 101mm) **4548** 6" x 4.5" x 3" (152 x 114 x 76mm) **4549** 14.5" x 5" x 3.5" (368 x 127 x 89mm)	**0850** 850 mA	**035 to 100**	**120** 120V **UNV** 120-277V	**LTE** Leading edge and trailing edge (ELV and TRIAC) Max distance: 9m (30ft)[1] Down to 15%) **D10** 0-10V Max distance: 100m (330ft)[1] (down to 0.1%) **ED10** 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)[1] (down to 1%) **SD10** 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)[1] (down to 0.1%)

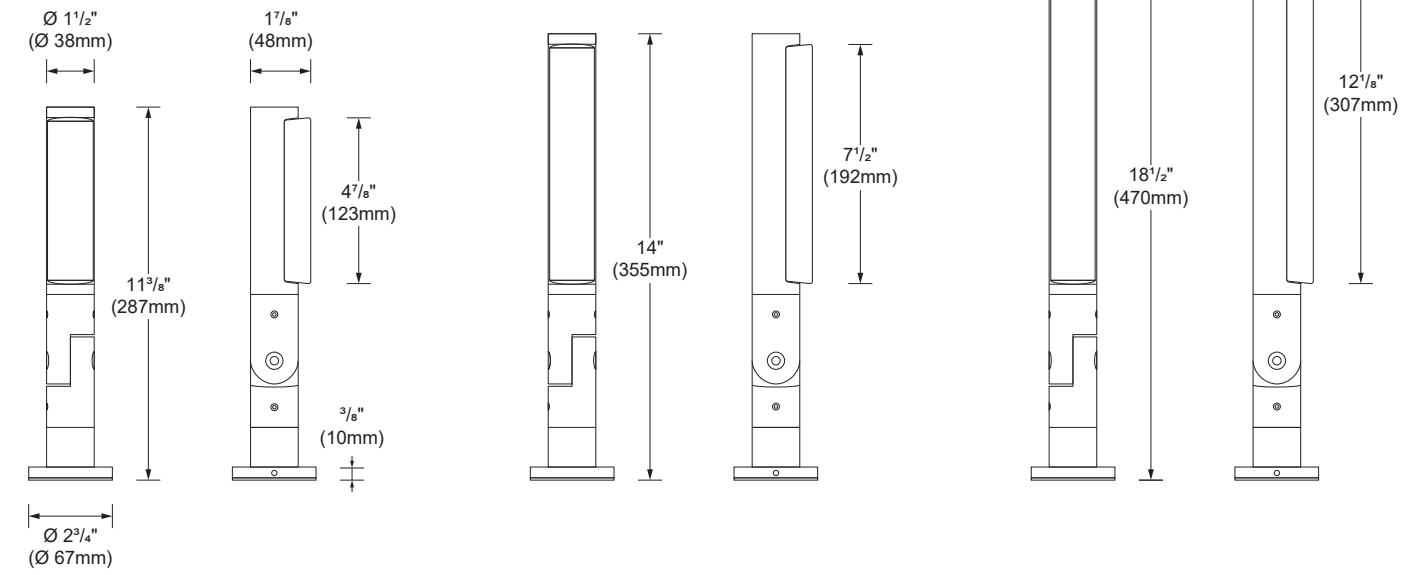
[1] Max distance cable calculated for 16AWG cable at full load. Contact customer service for longer remote distance.

WIRING DIAGRAMS
Fixture must be connected in series.

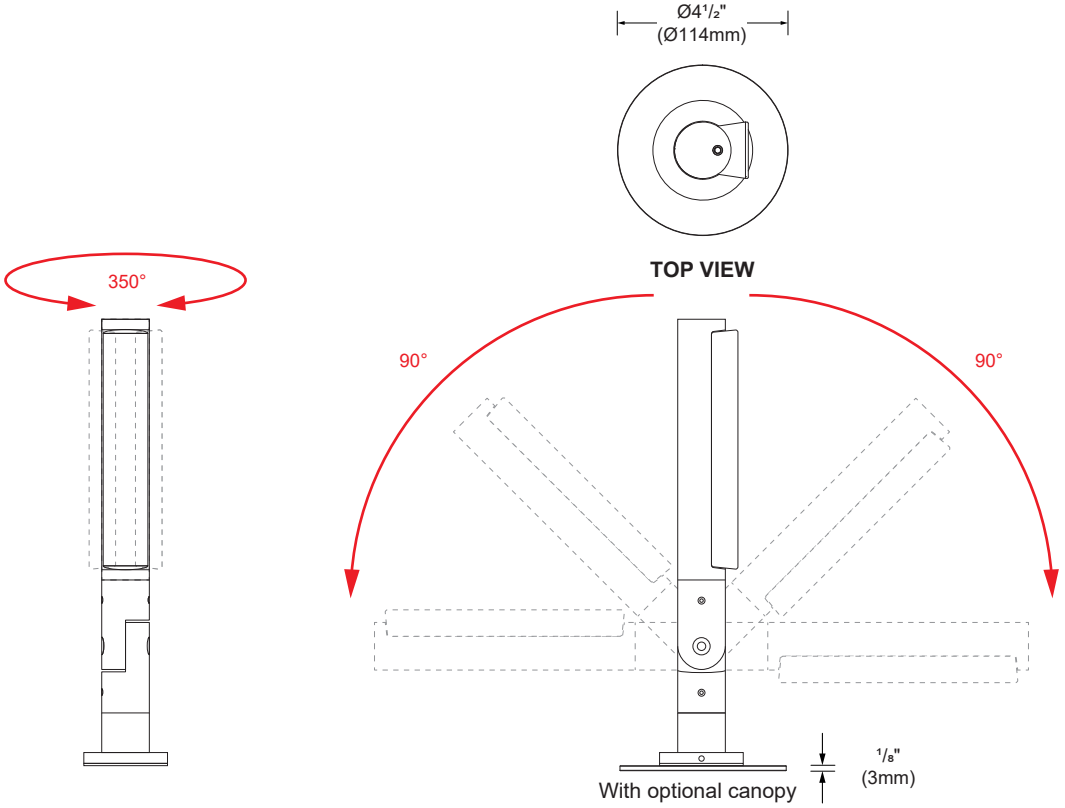


DIMENSIONS

Small S1751	Medium S1761	Large S1771



FRONT VIEW **SIDE VIEW** **FRONT VIEW** **SIDE VIEW** **FRONT VIEW** **SIDE VIEW**



TOP VIEW

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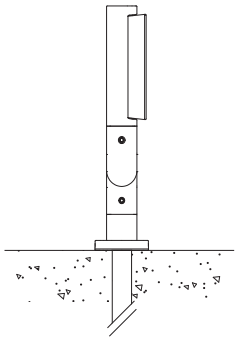
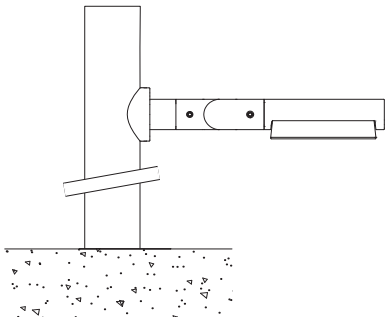
MOUNTING OPTIONS

SURFACE



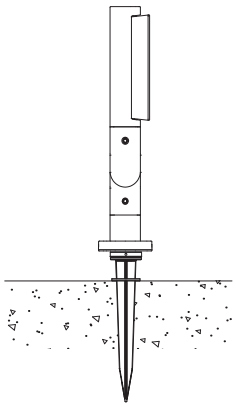
FW-REM - Fixture whip to remote power supply. Installed directly to surface with recessed pipe, exposed cable or electrical conduit.

POLE



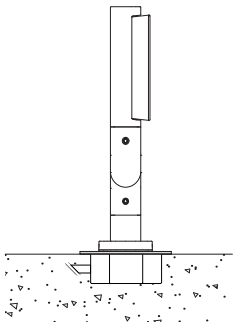
FW-REM - Mounting on pole with a die-cast aluminium flange suitable only for 2 3/8" (60mm)/ 3" (76mm) poles.

SOIL



FW-REM - Mounting on stake. 2" of the upper part stay out of the ground.

SURFACE ON JUNCTION BOX



JB-REM - 4" junction box with remote power supply. Mounting adapter plate for standard octagonal junction box installation.

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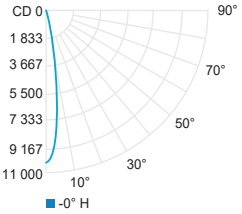
PHOTOMETRIC DATA

SMALL

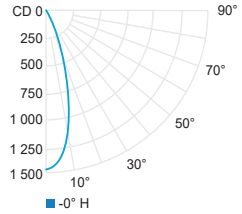
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	14W	Spot 10°	573	41	10 261	S1751W-SP
			Flood 32°	470	34	1 453	S1751W-FL
			Wide flood 60°	363	26	495	S1751W-WF
			Elliptical 60° x 10°	430	31	2 379	S1751W-ELL

Spot 10° (3000K, 90CRI)



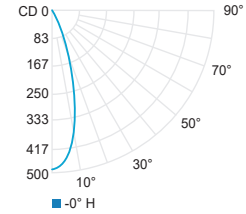
	Center beam fc	Beam width ft
2ft	2 562	0.4
4ft	640	0.9
6ft	285	1.3
8ft	160	1.7
10ft	102	2.1
12ft	71.2	2.6

Flood 32° (3000K, 90CRI)



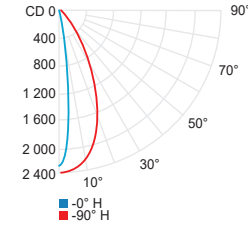
	Center beam fc	Beam width ft
2ft	363	0.4
4ft	90.8	0.9
6ft	40.4	1.3
8ft	22.7	1.7
10ft	14.5	2.1
12ft	10.1	2.6

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	124	2.0
4ft	31	4.1
6ft	13.8	6.1
8ft	7.74	8.1
10ft	4.96	10.1
12ft	3.44	12.2

Elliptical 60° x 10° (3000K, 90CRI)

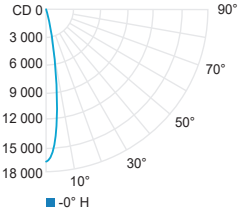


	Center beam fc	Beam width ft
2ft	363	1.2
4ft	90.8	2.3
6ft	40.4	3.5
8ft	22.7	4.7
10ft	14.5	5.8
12ft	10.1	7.0

MEDIUM

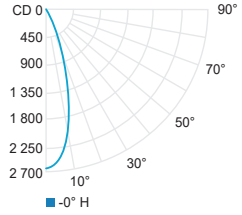
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	24.5W	Spot 10°	940	38	17 094	S1761W-SP
			Flood 32°	799	33	2 608	S1761W-FL
			Wide flood 60°	596	24	820	S1761W-WF
			Elliptical 60° x 10°	692	28	3 997	S1761W-ELL

Spot 10° (3000K, 90CRI)



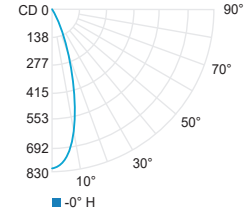
	Center beam fc	Beam width ft
2ft	4 267	0.4
4ft	1 067	0.8
6ft	474	1.3
8ft	267	1.7
10ft	171	2.1
12ft	119	2.5

Flood 32° (3000K, 90CRI)



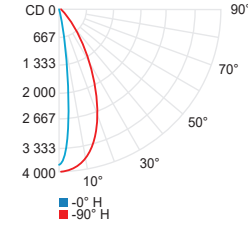
	Center beam fc	Beam width ft
2ft	652	1.1
4ft	163	2.3
6ft	72.5	3.4
8ft	40.8	4.5
10ft	26.1	5.7
12ft	18.1	6.8

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	205	2.0
4ft	51.3	4.0
6ft	22.8	6.0
8ft	12.8	8.0
10ft	8.20	10.0
12ft	5.69	12.1

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	991	0.3
4ft	248	0.7
6ft	110	1.0
8ft	62.0	1.3
10ft	39.7	1.7
12ft	27.5	2.0

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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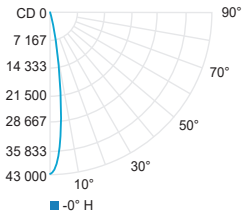
PHOTOMETRIC DATA

LARGE

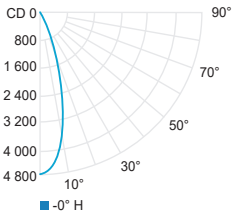
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	34W	Spot 10°	1 705	51	42 206	S1771W-SP
			Flood 32°	1 418	42	4 730	S1771W-FL
			Wide flood 60°	1 023	30	1 450	S1771W-WF
			Elliptical 60° x 10°	1 218	36	7 633	S1771W-ELL

Spot 10° (3000K, 90CRI)



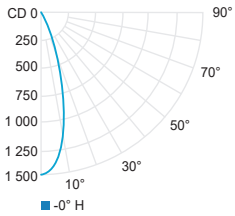
	Center beam fc	Beam width ft
2ft	10 531	0.4
4ft	2 633	0.7
6ft	1 170	1.1
8ft	658	1.4
10ft	421	1.8
12ft	293	2.2

Flood 32° (3000K, 90CRI)



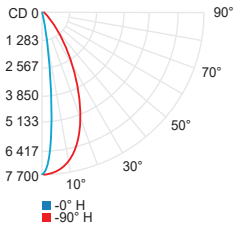
	Center beam fc	Beam width ft
2ft	1 183	1.1
4ft	296	2.2
6ft	131	3.4
8ft	73.9	4.5
10ft	47.3	5.6
12ft	32.9	6.7

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	363	2.0
4ft	90.7	4.0
6ft	40.3	5.9
8ft	22.7	7.9
10ft	14.5	9.9
12ft	10.1	11.9

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	1 898	0.3
4ft	475	0.6
6ft	211	0.9
8ft	119	1.3
10ft	75.9	1.6
12ft	52.7	1.9

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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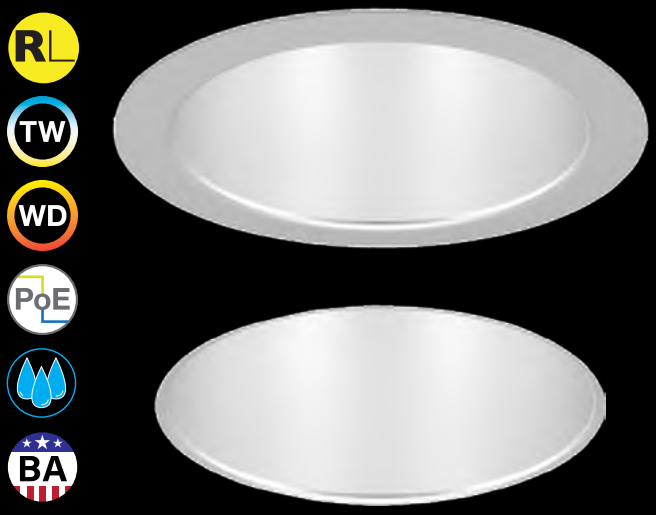
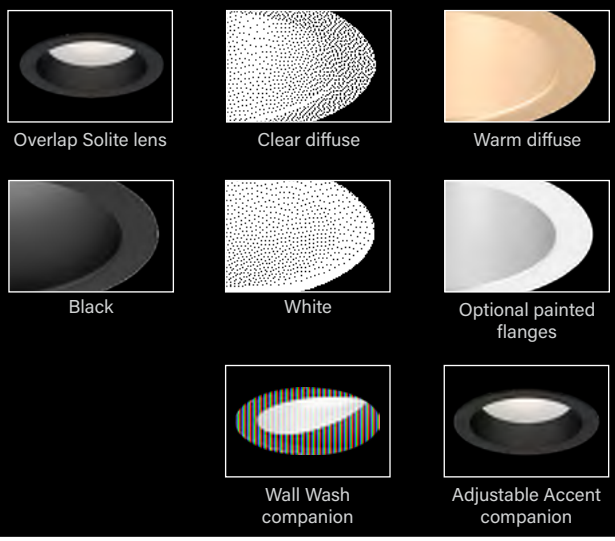
ID+ 3.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS

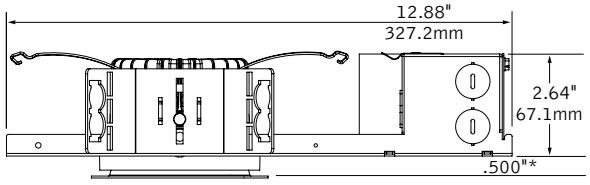
FOCAL POINT®





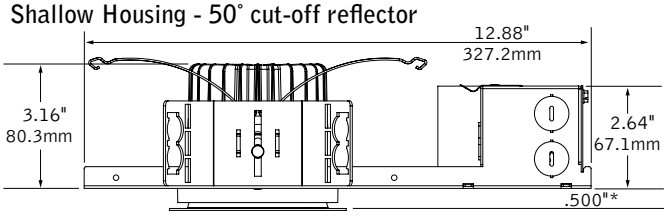
DIMENSIONAL DATA

Very Shallow Housing - 60˚ and 75˚ cut-off reflectors

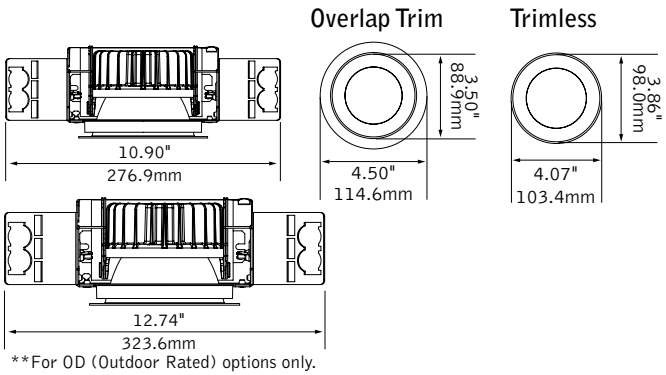


Housing height with DALI, Lutron & LZ1 drivers is 3.0"

Shallow Housing - 50˚ cut-off reflector



*Field adjustability of ceiling thickness from 0.5" - 1.5"



**For OD (Outdoor Rated) options only.

FEATURES

Less than 2.64" low profile housing available.

50˚, 60˚ and 75˚ cut-off reflector options available.

25˚ to 90˚ beam spreads support accent lighting, task lighting and general illumination.

Solite lens with die-cast trim allows for a coordinated aesthetic with ID+ 3.5" Adjustable Accent and delivers 70˚ or 90˚ beam spread options.

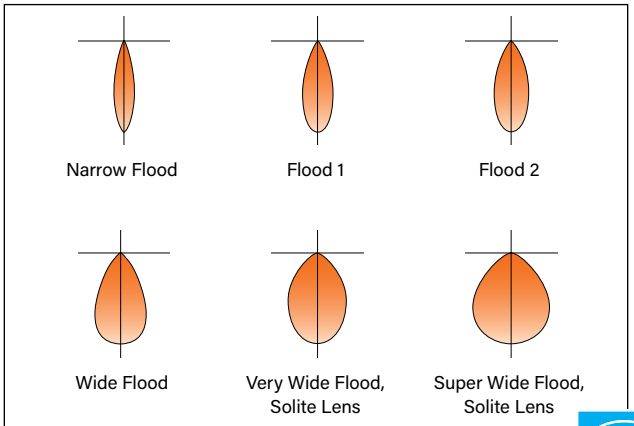
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Available with The Naturals, a series of finishes that exude biophilic beauty.

DISTRIBUTIONS

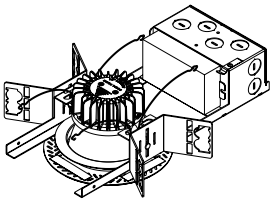


Based on Overlap Trim, Tall Cone except Solite Lens versions, Clear Diffuse. Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data. Visit energystar.gov for model specifics.

ENERGY STAR

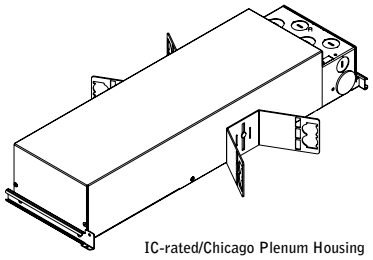
fixture: project:

STANDARD WHITE HOUSING DETAILS



T-Rated Housing
60˚ & 75˚ - L x W x H
12.88" x 10.90" x 2.64"
DALI, Lutron & LZ1 height = 3.0"

50˚ - L x W x H
12.88" x 10.90" x 3.09"



IC-rated/Chicago Plenum Housing
60˚, 50˚ & 75˚ - L x W x H
20.19" x 10.9" x 3.53"

3.5" ROUND DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread | Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT	50˚	Overlap	25° | 0.42	37° | 0.62	44° | 0.72	59° | 0.89	67° | 1.02	
		Trimless	26° | 0.54	37° | 0.62	44° | 0.76	58° | 0.87	-	-
DNS	60˚	Overlap	24° | 0.42	34° | 0.67	47° | 0.81	54° | 0.87	65° | 0.99	
		Trimless	25° | 0.42	37° | 0.63	45° | 0.75	56° | 0.92	-	-
DSS	75˚	Overlap	-	-	-	-	73° | 1.07	91° | 1.26
		Trimless	-	-	-	-	74° | 1.07	91° | 1.24

3.5" ROUND DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

STANDARD WHITE				
CCT	**Lumen Output**	**Delivered Lumens**	**System Watts**	**LPW**
3500K, 80CRI	700L	721	8	90
	900L	919	10	94
	1100L	1112	12	96
	1300L	1298	16	83
	1500L	1484	17	85
	1700L	1682	19	86
	1900L	1909	22	87
	2100L	2144	25	86

QS 5/10 DAY* Options in orange qualify for the Quickship program. All options 5-day up to 200 pieces except Emergency Battery 10-day only.

Focal Point LLC reserves the right to change specifications for product improvement without notification.

STANDARD WHITE

HOUSING ORDERING

Housing Series — FLC3D
- ID+ 3.5" Round — FLC3D

Trim Type
- Round Overlap — RO
- Round Trimless — RT

Color Options
- Standard White, 80 & 90 CRI — SW
- High 97 CRI — HC

Lumen Output
- 700 Lumen (Not available with Lutron or LFP) — 700L
- 900 Lumen (Not available with LFP) — 900L
- 1100 Lumen — 1100L
- 1300 Lumen — 1300L
- 1500 Lumen — 1500L
- 1700 Lumen — 1700L
- 1900 Lumen — 1900L
- 2100 Lumen — 2100L

Voltage
- 120/277 Volt — UNV
  (IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)
- 120V — 120
- 277V — 277
- Low Voltage — LV
  (IC-rated housing: SW - 1700lm max., HC - 1500lm max. T-rated & TW housings: SW - 1100lm max., HC - 900lm max.)

Control System & Dimming Level
- 0-10V <1% Dimming — LZ1
- 0-10V - 1% Dimming — L11
- 0-10V - 10% Dimming — LD1
- Low Voltage, PoE Compatible — LVN
  (No driver. Not available with EMR. LV voltage only.)
- Forward Phase (120V only) — LFP
- Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming — LH1
- DALI <1% Dimming — DZ1
- DALI - 1% Dimming — D11

Housing Type
- IC-Rated / Airtight — IC
- Thermally Protected, Non-IC / Airtight — T
- Thermally Protected, Non-IC Wood — TW
  (Trimless only. Wood kit required)

Factory Options
- Bar Hangers — BH
- Chicago Plenum — CP
- Emergency Battery - Remote test switch* — EMR
  (Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)
- Outdoor Rated** — OD
  (LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 5.)

TRIM & LED MODULE

Aperture — LC3
- 3.5" Round Reflector — LC3

Trim Type
- Round Overlap — RO
- Round Die-Cast Overlap (DSS only) — RDO
- Round Trimless — RT
- Round Die-Cast Trimless (DSS only) — RDT

Color Options
- Standard White, 80 & 90 CRI — SW
- High 97 CRI — HC

Lumen Output
- 700 Lumen (Not available with Lutron or LFP) — 700L
- 900 Lumen (Not available with LFP) — 900L
- 1100 Lumen — 1100L
- 1300 Lumen — 1300L
- 1500 Lumen — 1500L
- 1700 Lumen — 1700L
- 1900 Lumen — 1900L
- 2100 Lumen — 2100L

Color Temperature
(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)
- 2700K, 80/90/97+ CRI — _27K
- 3000K, 80/90/97+ CRI — _30K
- 3500K, 80/90/97+ CRI — _35K
- 4000K, 80/90/97+ CRI — _40K

Optic
- Tall Cone with 50˚ cut-off — DNT
- Short Cone with 60˚ cut-off — DNS
- Super Short Cone with Solite Lens 75˚ cut-off — DSS
  (Die-cast trims only. VWFL or SWFL only.)

Distribution
- Narrow Flood — NFL
- Flood 1 — FL1
- Flood 2 — FL2
- Wide Flood — WFL
- Very Wide Flood (Overlap all optics. Trimless DSS only.) — VWFL
- Super Wide Flood (DSS only) — SWFL

Finish
(See finishes page for The Naturals options available on DSS optic only.)
- Clear Diffuse — CD
- Warm Diffuse — WD
- Black — BK
- White — WH

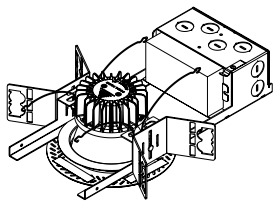
Optional Flange Finish
(Overlap CD & WD finish only) (For matching finishes leave blank)
- Black Painted — BP
- White Painted — WP

ACCESSORIES

- Trimless Wood Ceiling Installation Kit — LC3-WOOD-KIT
  (One kit recommended per 10 downlights)

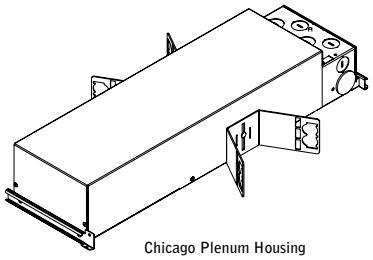
fixture: project:

WARM DIM HOUSING DETAILS



T-Rated Housing
60˚ & 75˚ - L x W x H
12.88" x 10.90" x 2.64"
DALI, Lutron & LZ1 height = 3.0"

50˚ - L x W x H
12.88" x 10.90" x 3.09"



Chicago Plenum Housing
60˚, 50˚ & 75˚ - L x W x H
20.19" x 10.9" x 3.53"

3.5" ROUND DOWNLIGHT OPTICS

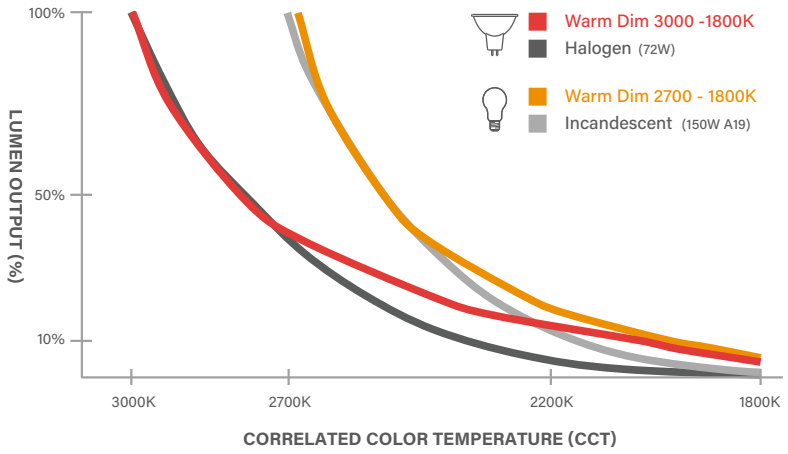
Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread | Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT	50˚	Overlap	25° | 0.42	37° | 0.62	44° | 0.72	59° | 0.89	67° | 1.02	
		Trimless	26° | 0.54	37° | 0.62	44° | 0.76	58° | 0.87	-	-
DNS	60˚	Overlap	24° | 0.42	34° | 0.67	47° | 0.81	54° | 0.87	65° | 0.99	
		Trimless	25° | 0.42	37° | 0.63	45° | 0.75	56° | 0.92	-	-
DSS	75˚	Overlap	-	-	-	-	73° | 1.07	91° | 1.26
		Trimless	-	-	-	-	74° | 1.07	91° | 1.24

3.5" ROUND DOWNLIGHT PERFORMANCE TABLE

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

WARM DIM				
CCT Range	**Lumen Output**	**Delivered Lumens**	**System Watts**	**LPW**
2700 - 1800K	1500L	1524	25	61
3000 - 1800K	1500L	1555	25	61

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



Focal Point LLC reserves the right to change specifications for product improvement without notification.

WARM DIM HOUSING ORDERING

Housing Series — **FLC3D**
ID+ 3.5" Round — FLC3D

Trim Type
Round Overlap — RO
Round Trimless — RT

Color Options — **WDM**
Warm Dim — WDM

Lumen Output — **1500L**
1500 Lumen — 1500L

Voltage
120V — 120
277V — 277

Control System & Dimming Level
0-10V <1% Dimming — LZ1
0-10V - 1% Dimming — L11
0-10V - 10% Dimming — LD1
Forward Phase (120V only) — LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming — LH1
DALI <1% Dimming — DZ1
DALI - 1% Dimming — D11

Housing Type
Thermally Protected, Non-IC / Airtight — T
Thermally Protected, Non-IC Wood — TW
(Trimless only. Wood kit required)

Factory Options
Bar Hangers — BH
Chicago Plenum — CP
Outdoor Rated ** — OD
(LD1 driver and T-rated housing only. Not available with CP. See dimming performance table on page 5.)

TRIM & LED MODULE

Aperture — **LC3**
3.5" Round Reflector — LC3

Trim Type
Round Overlap — RO
Round Die-Cast Overlap (DSS only) — RDO
Round Trimless — RT
Round Die-Cast Trimless (DSS only) — RDT

Color Options — **WDM**
Warm Dim — WDM

Lumen Output — **1500L**
1500 Lumen — 1500L

Color Temperature
Warm Dim: 2700-1800K, 90+ CRI — 92718W
Warm Dim: 3000-1800K, 90+ CRI — 93018W

Optic
Tall Cone with 50˚ cut-off — DNT
Short Cone with 60˚ cut-off — DNS
Super Short Cone with Solite Lens 75˚ cut-off — DSS
(Die-cast trims only)

Distribution
Narrow Flood — NFL
Flood 1 — FL1
Flood 2 — FL2
Wide Flood — WFL
Very Wide Flood (Overlap all optics. Trimless DSS only.) — VWFL
Super Wide Flood (DSS only) — SWFL

Finish
(See finishes page for The Naturals options available on DSS optic only.)
Clear Diffuse — CD
Warm Diffuse — WD
Black — BK
White — WH

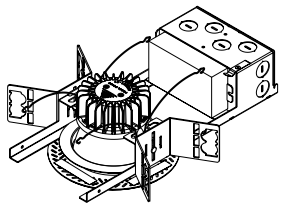
Optional Flange Finish
(Overlap CD & WD finish only) (For matching finishes leave blank)
Black Painted — BP
White Painted — WP

ACCESSORIES

Trimless Wood Ceiling Installation Kit — LC3-WOOD-KIT
(One kit recommended per 10 downlights)

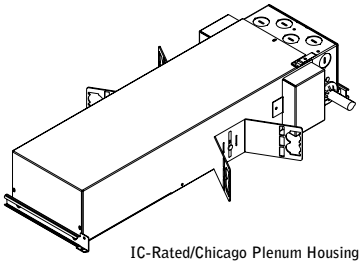
fixture: project:

TUNABLE WHITE HOUSING DETAILS



T-Rated Housing
L x W x H
12.88" x 10.90" x 3.60"

DZ1 = 12.88" x 10.90" x 3.00"



IC-Rated/Chicago Plenum Housing
L x W x H
20.19" x 10.9" x 3.53"

3.5" ROUND DOWNLIGHT OPTICS

Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread | Spacing Criteria					
			NFL	FL1	FL2	WFL	VWFL	SWFL
DNT	50˚	Overlap	25° | 0.42	37° | 0.62	44° | 0.72	59° | 0.89	67° | 1.02	
		Trimless	26° | 0.54	37° | 0.62	44° | 0.76	58° | 0.87	-	-
DNS	60˚	Overlap	24° | 0.42	34° | 0.67	47° | 0.81	54° | 0.87	65° | 0.99	
		Trimless	25° | 0.42	37° | 0.63	45° | 0.75	56° | 0.92	-	-
DSS	75˚	Overlap	-	-	-	-	73° | 1.07	91° | 1.26
		Trimless	-	-	-	-	74° | 1.07	91° | 1.24

3.5" ROUND DOWNLIGHT PERFORMANCE TABLES

Based on Overlap, Tall Cone, Wide Flood, Clear Diffuse. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE				
CCT	**Lumen Output**	**Delivered Lumens**	**System Watts**	**LPW**
2700K (2700-5000K & 2700-6500K)	700L	700	13	53
	900L	906	17	54
	1100L	1095	20	54
	1300L	1306	25	53
1800K (1800-4000K)	700L	701	20	36
	900L	898	25	37

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to ehnance spaces, mood, and alertness.

DAYLIGHT RANGE

Sunrise/Sunset | Mid Morning/Afternoon | Noon

1800K 6500K

Focal Point LLC reserves the right to change specifications for product improvement without notification.

TUNABLE WHITE

HOUSING ORDERING

Housing Series — FLC3D
ID+ 3.5" Round — FLC3D

Trim Type
Round Overlap — RO
Round Trimless — RT

Color Options
Tunable White: 1800-4000K — 1840T
(900L max. T-rated housings only.)
Tunable White: 2700-5000K — 2750T
Tunable White: 2700-6500K — 2765T

Lumen Output
700 Lumen — 700L
900 Lumen — 900L
1100 Lumen — 1100L
1300 Lumen — 1300L

Voltage
120/277 Volt — UNV
(2705T & 2765T only. IC housing only.)
120V — 120
277V — 277
Low Voltage — LV
(2705T & 2765T only. IC housing only.)

Control System & Dimming Level
0-10V <1% Dimming — LZ1
DALI <1% Dimming — DZ1
(Default driver offers DT6 control. It requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8. Extended lead time apply.)
Low Voltage, PoE Compatible — LVN
(No driver. Not available with EMR. LV voltage only.)

Housing Type
IC-Rated / Airtight — IC
(700L only. 2750T or 2765T only.)
Thermally Protected, Non-IC / Airtight — T
Thermally Protected, Non-IC Wood — TW
(Trimless only. Wood kit required)

Factory Options
Bar Hangers — BH
Chicago Plenum — CP
(2750T & 2765T: 1100L max. 1840T: 700L only.)
Emergency Battery - Remote test switch — EMR
(Overlap trim only. Not available with CP or IC-rated housing. Above ceiling access required.)

TRIM & LED MODULE

Aperture — LC3
3.5" Round Reflector — LC3

Trim Type
Round Overlap — RO
Round Die-Cast Overlap (DSS only) — RDO
Round Trimless — RT
Round Die-Cast Trimless (DSS only) — RDT

Color Options
(Trim & housing must match)
Tunable White: 1800-4000K — 1840T
Tunable White: 2700-5000K — 2750T
Tunable White: 2700-6500K — 2765T

Lumen Output
(Trim & housing must match)
700 Lumen — 700L
900 Lumen — 900L
1100 Lumen — 1100L
1300 Lumen — 1300L

Color Temperature
Tunable White: 1800-4000K, 90+ CRI — 91840T
Tunable White: 2700-5000K, 90+ CRI — 92750T
Tunable White: 2700-6500K, 90+ CRI — 92765T

Optic
Tall Cone with 50˚ cut-off — DNT
Short Cone with 60˚ cut-off — DNS
Super Short Cone with Solite Lens 75˚ cut-off — DSS
(Die-cast trims only)

Distribution
Narrow Flood — NFL
Flood 1 — FL1
Flood 2 — FL2
Wide Flood — WFL
Very Wide Flood — VWFL
(Overlap all optics. Trimless DSS only.)
Super Wide Flood (DSS only) — SWFL

Finish
(See finishes page for The Naturals options available on DSS optic only.)
Clear Diffuse — CD
Warm Diffuse — WD
Black — BK
White — WH

Optional Flange Finish
(Overlap CD & WD finish only) (For matching finishes leave blank)
Black Painted — BP
White Painted — WP

ACCESSORIES

Trimless Wood Ceiling Installation Kit — LC3-WOOD-KIT
(One kit recommended per 10 downlights)

HOUSING SPECIFICATIONS

Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 1⁄2" emt. Order bar hangers as an accessory. Die–cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1⁄2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. Trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Emergency

Above ceilng access required. Overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height — Clear Diffuse & White: 22.5ft. Black & Warm Diffuse: 15.3ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

Outdoor Rated (OD) Driver Dimming Performance table

Lumen Output	Minimum Dimming Level
700L	20%
900L	16%
1100L	13%
1300L	10%
1500L	10%
1700L	10%
1900L	10%
2100L	10%

Lumen Maintenance

Reported: L70 at >55,000 hours
L90 at >55,000 hours

Calculated: L70 at 204,000 hours
L90 at 59,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

Reliability

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

Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20˚C to +40˚C.

TRIM & LED SPECIFICATIONS

LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Aluminum heat sink provides appropriate thermal management.

Aesthetics

Parabolic reflector cone ensures glare free optics. DNT & DNS reflector is .050 spun aluminum. DSS reflector is die-cast aluminum. Trims are self-flanged. Non-painted trim matches reflector finish. Painted flange may also be specified. The Naturals: 100% low VOC vinyl available with DSS only.

Optics

50-degree, 60-degree or 75-degree cut–off to light source and its image.

Finishes

FOCAL POINT®

STANDARD FINISHES

WHITE WH

BLACK BK

CLEAR DIFFUSE CD

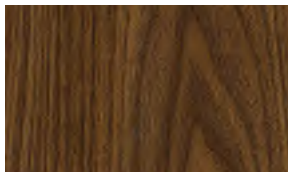
WARM DIFFUSE WD

THE NATURALS (25% SCALE) - Available with Super Short Cone (DSS) only

LIGHT OAK LOK

GRAY ELM GRE

CHESTNUT CHT


WALNUT WLT

WOVEN LINEN WLN

Color Lumen Multipliers

CRI	STANDARD WHITE CCT				WARM DIM CCT RANGES		TUNABLE WHITE CCT RANGES		
	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K
80+	0.92	0.98	1.00	1.01	-	-	-	-	-
90+	0.79	0.83	0.82	0.84	1.02	1.04	1.00	1.00	1.00
97	0.67	0.72	0.73	0.76	-	-	-	-	-

Distribution Lumen Multipliers

Trim Type	Optic	Distribution	Multiplier
Round Trimless [RT]	Tall Cone with 50˚ cut-off [DNT]	Narrow Flood [NFL]	1.12
		Flood 1 [FL1]	0.92
		Flood 2 [FL2]	1.06
		Wide Flood [WFL]	0.92
	Short Cone with 60˚ cut-off [DNS]	Narrow Flood [NFL]	0.99
		Flood 1 [FL1]	0.96
		Flood 2 [FL2]	0.92
		Wide Flood [WFL]	0.95
Round Overlap [RO]	Tall Cone with 50˚ cut-off [DNT]	Narrow Flood [NFL]	0.97
		Flood 1 [FL1]	0.94
		Flood 2 [FL2]	1.09
		Wide Flood [WFL]	1.02
		Very Wide Flood [VWFL]	1.02
	Short Cone with 60˚ cut-off [DNS]	Narrow Flood [NFL]	0.98
		Flood 1 [FL1]	1.17
		Flood 2 [FL2]	1.11
		Wide Flood [WFL]	1.09
		Very Wide Flood [VWFL]	1.07
Round Die-Cast Trimless [RDT]	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Very Wide Flood [VWFL]	1.00
		Super Wide Flood [SWFL]	0.95
Round Die-Cast Overlap [RDO]	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Very Wide Flood [VWFL]	0.96
		Super Wide Flood [SWFL]	0.90

Color Lumen Multipliers

Trim Type	Optic	Color	Multiplier
Round Trimless [RT] and Round Overlap [RO]	Tall Cone with 50˚ cut-off [DNT]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.92
		White [WH]	1.09
		Black [BK]	0.46
	Short Cone with 60˚ cut-off [DNS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.96
		White [WH]	1.12
		Black [BK]	0.62
Round Die-Cast Trimless [RDT] -and- Round Die-Cast Overlap [RDO]	Super Short Cone with Solite Lens with 75˚ cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.97
		White [WH]	1.16
		Black [BK]	0.86

How To Use Lumen Multipliers

Formula:
(Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

Example:
LC3-RO-SW-1100L-935K-DNS-FL1-WH
(1100) x (0.81) x (1.17) x (1.12) ≈ 1167lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive applicationof three multipliers. Refer to IES files for most accurate photometric information.

DATE	PROJECT	FIRM	TYPE

RISE IS A SYSTEM OF BEAUTIFULLY DESIGNED OUTDOOR RATED LUMINAIRES THAT PROVIDE EFFICIENT AND POWERFUL LIGHT USING THE LATEST IN LED TECHNOLOGY. RISE F080 SINGLE IS A POWERFUL AND COMPACT LED LIGHT FIXTURE, DELIVERING UP TO 1170 LUMENS, THAT CAN BE USED IN SPOT, ACCENT, LANDSCAPE AND FLOODLIGHT APPLICATIONS. ITS UNIQUE MACRO™ LOCK FEATURE ALLOWS FOR FULL 180 DEGREE TILT AND 360 DEGREE PAN AIMABILITY USING ONLY ONE TWIST.

FEATURES :

- POWERFUL CBCP
- EXTREMELY COMPACT
- POWERFUL OUTPUT UP TO 1170 LUMENS
- MACRO™ LOCK - 180° TILT AND 360° PAN
- 12 UNIQUE BEAM ANGLES
- MULTIVOLT (110 V-277 V)
- 8 CCTS: 2200K THROUGH 6500K
- 80+ AND 90+ CRI
- DIMMABLE TO 5%
- IP66 RATED

FIXTURE MODEL F080	**FIXTURE CONFIG.**	**POWER/ LUMEN OUTPUT***	**CCT/ COLOR**	**CRI**	**BEAM ANGLE**	**FINISHES**	**ACCESSORIES**	**WIRING AND MOUNTING**
F080 **ON DEMAND SHIPPING**	1R - Single Round	LO - Low Output MO - Medium Output HO - High Output	27 - 2700K 30 - 3000K 35 - 3500K 40 - 4000K	8 - 80 9 - 90*	05 - Laser Spot (5°) 10 - Very Narrow Spot (10°) 15 - Narrow Spot (15°) 20 - Spot (20°) 40 - Flood (40°) 60 - Medium Flood (60°) 70 - Wide Flood (70°) 90 - Very Wide Flood (90°) E1 - Elliptical 1 (15°x60°) E2 - Elliptical 2 (30°x60°) E3 - Elliptical 3 (60°x15°) E4 - Elliptical 4 (60°x30°)	K - Black Z - Bronze S - Silver	X - No Accessory H - Half Snoot F - Full Snoot	A - 19" Flying Leads - Internal Cable IC; Bottom Exit; 1/2"NPT **UL/CE Listed** B* - 10' External Cable Side Exit; Surface Mount **UL Listed** C* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT **UL Listed** D* - 10' External Cable Side Exit; Surface Mount **CE Listed** E* - 10' External Cable Bottom Exit; Surface Mount - 1/2" NPT **CE Listed**
BUILD TO ORDER SHIPPING **EXAMPLE:** F080-1R-LO-22-8-05-S-X-A		*2200K and 2500K not available in 40°, 60°, 70° and 90°	22 - 2200K 25 - 2500K 50 - 5000K 65 - 6500K RD - Red GR - Green BL - Blue AM - Amber	X - For RD, GR, BL, AM *90 CRI not available in 2200K, 2500K, 5000K, and 6500K		W - White C - Custom* *Provide RAL #		

PERFORMANCE	WATTS	POWER	LUMEN OUTPUT 5°	LUMEN OUTPUT 40°	EFFICACY 5°	EFFICACY 40°	CBCP 5°	CBCP 40°
*SEE PHOTOMETARY CHART FOR LUMEN DATA	4	Low Output	309	429	76	107	21,991	705
	7.5	Medium Output	531	761	71	101	37,824	1,251
	11.5	High Output	744	1,120	65	99	53,048	1,874

ALL LUMEN DATA IS FROM 4000K 80CRI FIXTURES. PLEASE SEE PHOTOMETRY SPEC SHEET FOR ADDITIONAL LUMEN DATA.

COLOR RENDERING INDEX 80+, 90+

COLOR CONSISTENCY 3-STEP MACADAM ELLIPSE

LUMEN DEPRECIATION

WATTS	L70 @ 25C	L70 @ 50C	L90 @ 25C	L90 @ 50C
LOW	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
MEDIUM	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**	>60,500* >(109,000)**
HIGH	>60,500* >(181,000)**	>36,300*	>60,500* >(69,800)**	>33,200*

* ENERGY STAR REPORTED TESTING HOURS TO DATE. CALCULATIONS FOR LED FIXTURES ARE BASED ON MEASUREMENTS THAT COMPLY WITH IES LM-80 TESTING PROCEDURES AND IES TM-21 CALCULATOR

** ESTIMATED HOURS

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

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LOS ANGELES, CA 90012

SUPPORT@ECOSENSELIGHTING.COM

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VISIT **ECOSENSE**LIGHTING.COM FOR THE MOST CURRENT SPECIFICATIONS.
FOR A LIST OF PATENTS VISIT **ECOSENSE**LIGHTING.COM/IP-PORTFOLIO/

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DATE	PROJECT	FIRM	TYPE

ELECTRICAL	**WATTAGE**	LOW OUTPUT = 4W; MEDIUM OUTPUT = 7.5W; HIGH OUTPUT = 11.5W
	POWER FACTOR	>0.9 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO)
	THD	<0.2 for 120 V (HO, MO, LO), 230 V (HO, MO), 277 V (HO)
	OPERATING VOLTAGE	MULTIVOLT: 110-277 VAC, 50/60 Hz
	DRIVER	INTEGRAL TO FIXTURE; DE-RATED POWER AND SYNCHRONOUS START-UP AT FULL BRIGHTNESS
	STARTUP TEMPERATURE	-40 ˚F TO 122 ˚F (-40 ˚C TO 50 ˚C)
	OPERATING TEMPERATURE	-40 ˚F TO 122 ˚F (-40 ˚C TO 50 ˚C)
	STORAGE TEMPERATURE	-40 ˚F TO 176 ˚F (-40 ˚C TO 80 ˚C)
	SURGE PROTECTION	SURGE PROTECTION DEVICES WITH A MINIMUM DISCHARGE CURRENT RATING OF 20kA, THAT MEET UL1449, CSA C22.2 No. 269.1, AND IEC TR 62066, SHOULD BE INSTALLED ON EACH BRANCH CIRCUIT.
CONTROL	**DIMMING**	110-277 VAC, ELV TYPE, REVERSE PHASE, TRAILING EDGE
PHYSICAL	**DIMENSIONS**	W 3.15" x H 7.6" x L 2.49" ; (80 mm x 194.1 mm x 63.25 mm)
	HOUSING/LENS	EXTRUDED ALUMINUM; UV STABILIZED POLYCARBONATE; STAINLESS STEEL FASTENERS
	WEIGHT	2.0 LBS ; (0.9 KG)
	ENVIRONMENT	OUTDOOR • UL CERTIFIED FOR **MARINE GRADE** • WET LOCATIONS • IP66 IMPACT RATED TO IK10 MEETS 3G ANSI C136.31 VIBRATION STANDARD FOR BRIDGE APPLICATIONS
	MOUNTING OPTIONS	A - FLYING LEADS - INTERNAL CABLE IC; BOTTOM EXIT; 1/2" NPT ; UL/ CE RATED B - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; UL LISTED SURFACE MOUNT PLATE INCLUDED C - EXTERNAL CABLE BOTTOM EXIT; 1/2" NPT ; UL LISTED SURFACE MOUNT PLATE INCLUDED D - EXTERNAL CABLE SIDE EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED E - EXTERNAL CABLE BOTTOM EXIT; SURFACE MOUNT ; CE LISTED SURFACE MOUNT PLATE INCLUDED
	WIRING	LENGTH OF FLYING LEADS 19" (482.6 mm) LENGTH OF EXTERNAL CABLE 10' (3.05 m)
	TOOLS	2.5 mm HEX KEY AND PHILLIPS #0 SCREWDRIVER FOR INTERCHANGEABLE LENS + SNOOTS 4 mm HEX KEY FOR AIMING 5 mm HEX KEY FOR MAIN TILT ARM
	WIND LOAD (EPA)	EFFECTIVE PROJECTED AREA 0.14 ft²
	CORROSION RESISTANT	RISE HAS A HIGH-PERFORMING, CORROSION-RESISTANT FINISH THAT USES HIGH DURABILITY TRIGLYCIDYL ISOCYANURATE (TGIC) POWDER COATINGS SPECIFICALLY DESIGNED FOR NATATORIUMS AND EXTERIOR WEATHER EXPOSURE. THIS FINISH HAS BEEN TESTED AND APPROVED TO **MARINE GRADE** CORROSION RESISTANCE STANDARD IN UL1598A, ASTM B117 SALT FOG TEST FOR 200 HOURS.
FIXTURE RATING & CERTIFICATIONS	**CE, UL CERTIFIED** **RoHS COMPLIANT, IK10**	CE · UL CERTIFIED MARINE · RoHS COMPLIANT · IK10
LIMITED WARRANTY	**5 YEARS**	

0-10V CONTROL OPTIONS

100-120 VAC / 277 VAC Linear Dimming Control Module 0-10 V - Plenum Rated **LDCM-PL-120-277-010V-GR**

All products come standard with ELV dimming capabilities. 0-10V Control options required for operation at 0-10V.

OPTIONAL ACCESSORIES

Snoots

Round Half Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... **F080-RH-(K,Z,S,W,C)**

Round Full Snoot, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... **F080-RF-(K,Z,S,W,C)**

Interchangeble Lens

If inner optic = 5°,
Desired angle .....order the following spread lens

5 Degree **F080-LENS-05**
10 Degree **F080-LENS-10**
15 Degree **F080-LENS-15**
20 Degree **F080-LENS-20**
40 Degree **F080-LENS-40**
60 Degree **F080-LENS-60**
80 Degree **F080-LENS-80**
15x60 or 60x15 Degree **F080-LENS-E1E3**

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/downloads/rise for the most updated information.

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30x60 or 60x30 ..... F080-LENS-E2E4
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 80, 15x60 or 60x15, 30x60 or 60x30) F080-LENS-FULLSET

If inner optic = 40°,
Desired angle .....Order the following spread lens
5 Degree ..... NOT SUPPORTED
10 Degree ..... NOT SUPPORTED
15 Degree ..... NOT SUPPORTED
20 Degree ..... NOT SUPPORTED
40 Degree F080-LENS-10
60 Degree F080-LENS-40
70 Degree F080-LENS-60
90 Degree F080-LENS-80
15x60 or 60x15 Degree ..... NOT SUPPORTED
30x60 or 60x30 Degree ..... NOT SUPPORTED
Full Set of Beam Angle Lens Degree (5, 10, 15, 20, 40, 60, 70, 90, 15X60 or 60X15, 30X60 or 60X30) F080-LENS-FULLSET

Honeycomb Louver
Honeycomb Louver F080..... F080-LV-HComb

Color Filters
Red F080-FILTER-RED
Blue F080-FILTER-BLUE
Green F080-FILTER-GREEN
Amber F080-FILTER-AMBER

F080 Wall Mount Arm (for use only with Wiring Option C – External Cable Bottom Exit - Not for use with multi-up fixtures)
Wall Mount Arm, 6 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-WMA-06-(K,Z,S,W,C)
Wall Mount Arm, 12 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-WMA-12-(K,Z,S,W,C)
Wall Mount Arm, 18 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-WMA-18-(K,Z,S,W,C)
Wall Mount Arm, 24 inch, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) ..... F080-WMA-24-(K,Z,S,W,C)

Ground Stake (for use only with Wiring Option C or E for wiring to remote junction box – External Cable Bottom Exit - Not for use with Multi-up fixtures)
Landscape Stake, 12 in, Black (for use with F080 Single Head only, not for use with multi-fixture units) F080-LS-1S-STK-12

Perma Post (for use only with Wiring Option A, C, or E - For use with Single and Multi-up Fixtures)
Perma Post and Cap - 19" x 2-3/4", Black, Post and Cap with 1.2" NPT female thread.....RISE-PERMA-POST-19

Slip Fitter (Not for use with Wiring Option A, C or E - For use with Single and Multi-up fixtures)
Slip Fitter, 2-3/8" post, 1/2" NPT female threads, Color Finish (K=Black, Z=Bronze, S=Silver, W=White, C=Custom) .....RISE-SLIP-FITTER-(K,Z,S,W,C)

Canopy Plate (Not for use with Option B or D - External Cable Side Exit)
Canopy Plate, 4" Dia Round J-Box Cover, 1/2" NPT female thread (K=Black, Z=Bronze, S=Silver, W=White, C=Custom).....RISE-CANOPY-04-(K,Z,S,W,C)

Junction Box Cover (Not for use with Option B or D - External Cable Side Exit)
Junction Box Cover, 2x4, Single 1/2" NPT female thread, Silver Grey.....RISE-JBC-RABR14

Tree Strap (Not for use with Option B or D - External Cable Side Exit)
Tree mount with strap and junction box and cover, 72" strap for 21" diameter trees, Bronze.....RISE-TMS-TB-VIS3

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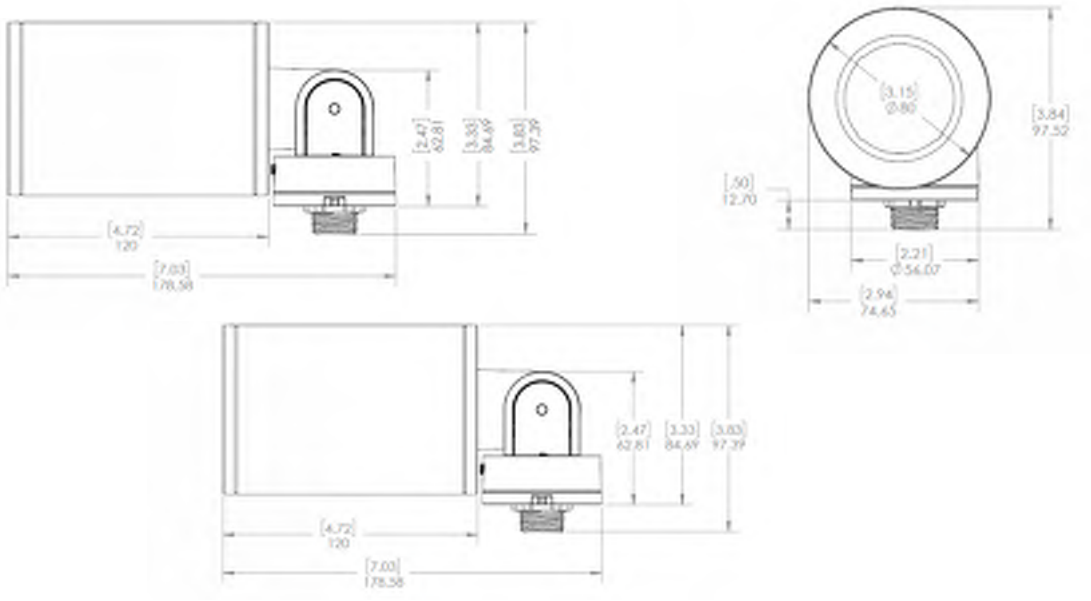
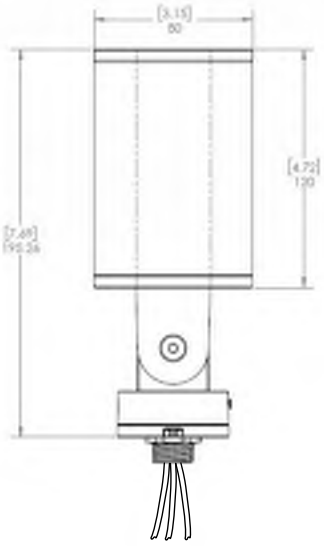
DATE	PROJECT	FIRM	TYPE

DIMENSIONS



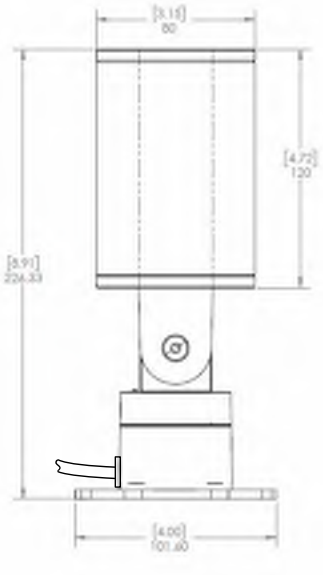
WIRING GUIDE

Flying Leads - Internal Cable
(UL Listed or CE Listed)



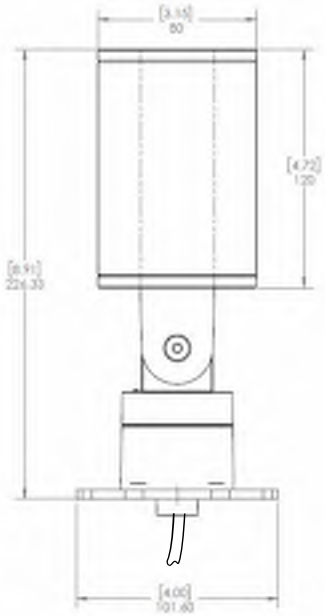
- For use with standard junction boxes
- 1/2” NPT Taper, Cable Length is 19”
- Compatible with EcoSense Canopy junction Box Cover
- 18 AWG Stranded Copper Cable - 3 Conductors

External Cable Side Exit
(UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the side of the base
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10’ (3.05 m)

External Cable Bottom Exit
(UL Listed or CE Listed)



- For use when external, exterior rated cable is required to run to remote junction box or mains
- Cable exits the bottom for use with various accessories such as Wall Mount Arm and Ground Stake
- 1/2” NPT taper for mounting
- Comes with a Surface Mount Plate, for mounting direct to surface
- Cable Length is 10’ (3.05 m)

NOTE: Information on this Spec Sheet is subject to change, please visit ecosenselighting.com/rise for the most updated information.

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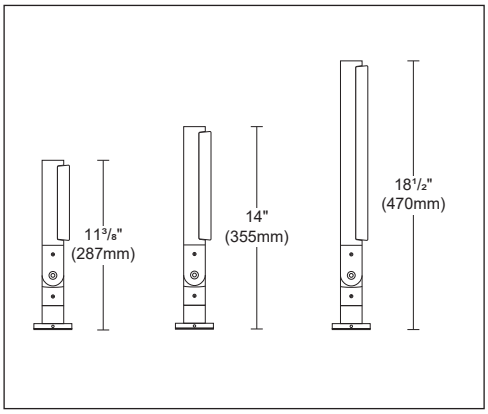

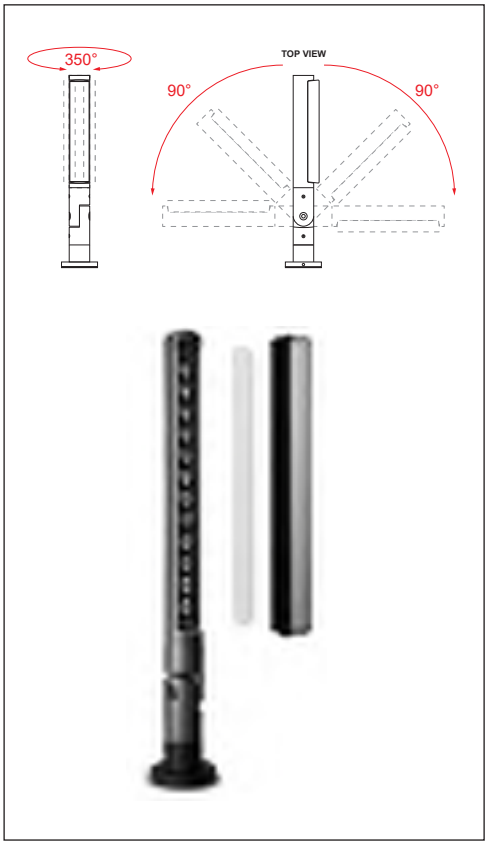

Luminaire characteristics

SIZE	TOTAL INPUT	OPTIC	LUMEN (lm)*	EFFICACY (lm/W)*	MAX CANDELA (cd)*
SMALL	14W	Spot 10°	573	41	10 261
		Flood 32°	470	34	1 453
		Wide flood 60°	363	26	495
		Elliptical 60° x 10°	430	31	2 379
MEDIUM	24.5W	Spot 10°	940	38	17 094
		Flood 32°	799	33	2 608
		Wide flood 60°	596	24	820
		Elliptical 60° x 10°	692	28	3 997
LARGE	34W	Spot 10°	1705	51	42 206
		Flood 32°	1418	42	4 730
		Wide flood 60°	1023	30	1 450
		Elliptical 60° x 10°	1218	38	7 633

*For 3000K, 90CRI

Source:
White LED
2700K: 90CRI,
3000K: 90CRI,
4000K: 80CRI.

Lumen maintenance:
80% of initial lumens at 70 000 hours (L80 B10)
T77°F (25°C)
80% of initial lumens at 50 000 hours (L80 B10)
T104°F (40°C) (LM-80)

Optics:
Spot, flood, wide flood and elliptical. Optics are achieve with filters already install in fixture. See effect on page 2 and codes for extra filters. Optical filter are easily interchangeable and can be ordered separately.

Material:
Body: die-cast aluminum
Diffuser: 1/16" (2mm) clear toughened glass
Hardware: stainless steel screws

Mounting:
Surface mounted. Optional canopy for standard octagonal junction box installation.
Soil. Optional stake to be ordered separately.
Pole mounted. Optional flange to be ordered separately
Supplied with 5m of CMP outdoor suitable 2/22AWG cable.

Electrical:
High efficiency dimmable remote LED driver, rated at 50 000 hours. 120V/277V. See remote power supply options on page 3.

Dimming:
Leading (Triac) and trailing edge(ELV), down to 15% and 0-10V down to 0.1% (120-277V). See dimming options on page 3.

Temperature of operation:
-4°F to 122°F (-20°C to 50°C)

Finish:
Standard finish
24

Premium finishes
01 07 09 14 20

Anthracite gray painted finish. Double powder paint coat in 3 steps process: surface treatment containing ceramic nano particles (Bonderite). Epoxy primer paint. Polyester powder paint with high resistance against UV rays and harsh weather conditions. See page 2 for other premium finishes available (white, green, black, gray & burnish bronze)

Weight:
Small: 2.86lb (1.3kg)
Medium: 3.30lb (1.5kg)
Large: 3.99lb (1.81kg)

Warranty:
5 year limited warranty.

Ratings:
IP66, IK07

Certification:
cULus for wet location.

Due to continuous improvements, the information herein may be changed without notice
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ORDERING INFO

CLICK HERE

CONFIGURE

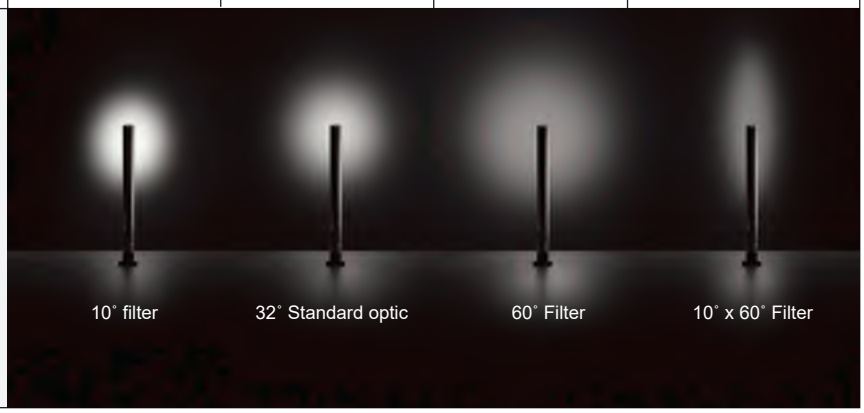
-REM
PRODUCT CODE

MODEL	LED	OPTIC[1]	MOUNTING	VOLTAGE	FINISH
S1751 Small 4 LED **S1761** Medium 7 LED **S1771** Large 12 LED	**H** 2700K, 90CRI **W** 3000K, 90CRI **N** 4000K, 80CRI	**SP** Spot (10°) **FL** Flood (32°) **WF** Wide flood (60°) **ELL** Elliptical (60° x 10°)	**FW** Surface, pole or soil mounting, no junction box **JB** Surface mounting, with junction box	**REM** Remote	**24** Anthracite gray *PREMIUM* **01** White **07** Green **09** Black **14** Gray **20** Burnished bronze

1 Optics are achieve with filters already install in fixture. See effect below and codes for extra filters.

EXTRA OPTICAL FILTER (To be ordered seperately)

MODEL	SPOT 10˚	FLOOD 32˚	WIDE FLOOD 60˚	ELLIPTICAL 60˚ X 10˚
SMALL S1751	S1752	STANDARD OPTIC INCLUDED	S1753	S1754
MEDIUM S1761	S1762	STANDARD OPTIC INCLUDED	S1763	S1764
LARGE S1771	S1772	STANDARD OPTIC INCLUDED	S1773	S1774

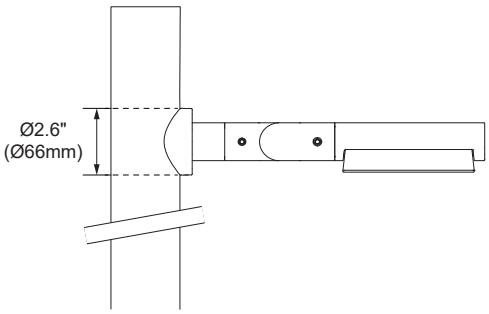


POLE MOUNTING

FLANGE FOR POLE INSTALLATION

Pole Ø: 2⅜" (60mm) or 3" (76mm)

	Dimensions	Length	Weight
☐ **S1758**	Ø2.6" x 0.75" (Ø66mm x 19mm)	2⅜" (60mm)	0.11lb (0.05kg)



POLE INFORMATIONS

POLE Ø2⅜" (Ø60mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

HEIGHT: _____ FT

MODEL: Straight

INSTALLATION: Anchor bolts

MATERIAL:
☐ Aluminum
☐ Galvanized steel

POLE Ø3" (Ø76mm)

☐ SUPPLIED BY OTHER
CONTACT FACTORY FOR POLE DETAILS

FINISH [1]:
☐ 01 - White (RAL9016)
☐ 07 - Green (RAL6028)
☐ 09 - Black (RAL9005)
☐ 14 - Aluminium gray (RAL9006)
☐ 20 - Burnished bronze (RAL8019)
☐ 24 - Anthracite gray (RAL7022)
☐ Custom RAL _____

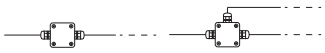
MODELS	EPA
SMALL 4 LED	0.030ft² (0,009 m²)
MEDIUM 7 LED	0.043ft² (0,016m²)
LARGE 12 LED	0.57ft² (0,021m²)

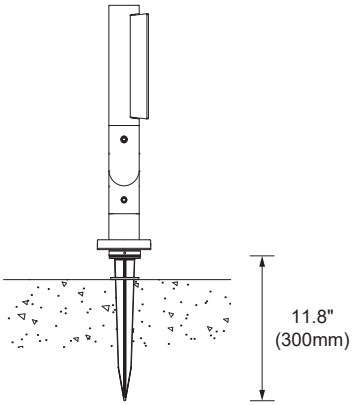
1 We provide RAL numbers that are similar, but we cannot guarantee an exact color match.
For a more accurate color and gloss match, please contact customer service for a sample chip.

STAKE IN POLYPROPYLENE

2" of the upper part stay out of the ground

	Dimensions	Length	Weight
☐ **S1768**	Ø2.6" x 11.8" (Ø66mm x 300mm)	11.8" (300mm)	0.11lb (0.05kg)

☐ **4543-00** Wet location junction box 



REMOTE LED DRIVER OPTIONS (TO BE ORDERED SEPARATELY)

-REM
PRODUCT CODE

Outdoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4548-0850-035-120-LTE	2	1	1
4549-0850-040-UNV-D10	1-3	1-2	1
4549-0850-046-UNV-ED10	1-3	1-2	1
4549-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4549-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

Indoor rated drivers

Driver box model	Min-max units		
	S1751 10.6W*	**S1761 18.3W***	**S1771 30.6W***
4445-0850-035-120-LTE	2	1	1
4450-0850-040-UNV-D10	1-3	1-2	1
4450-0850-046-UNV-ED10	1-3	1-2	1
4450-0850-050-UNV-SD10 2 LED outputs	1-4 (max 2 per output)	1-2 (1 per output)	1
4448-0850-100-UNV-SD10 4 LED outputs	1-9 (max 4 per output)	1-4 (max 1 per output)	1-3 (max 1 per output)

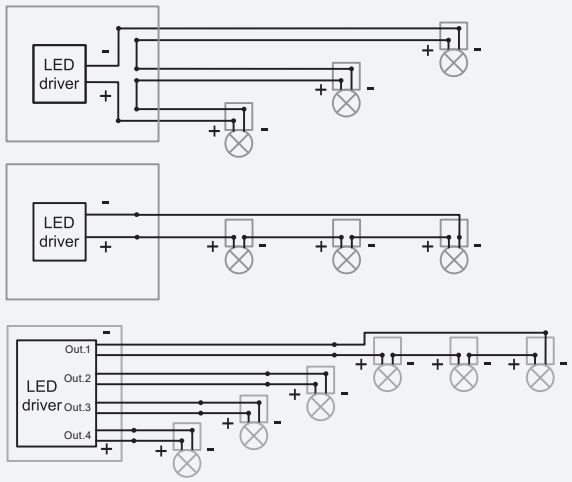
*Represent LED source wattage for one (1) fixture.

Driver code example

MODEL	CONSTANT CURRENT	WATTAGE	VOLTAGE	DIMMING PROTOCOL
4445 6" x 6" x 3" (152 x 152 x 76mm) **4448** 10" x 8" x 4" (254 x 203x 101mm) **4450** 8" x 8" x 4" (203 x 203x 101mm) **4548** 6" x 4.5" x 3" (152 x 114 x 76mm) **4549** 14.5" x 5" x 3.5" (368 x 127 x 89mm)	**0850** 850 mA	**035 to 100**	**120** 120V **UNV** 120-277V	**LTE** Leading edge and trailing edge (ELV and TRIAC) Max distance: 9m (30ft)[1] Down to 15%) **D10** 0-10V Max distance: 100m (330ft)[1] (down to 0.1%) **ED10** 0-10V ELDOLED ECOdrive Max distance: 36m (118ft)[1] (down to 1%) **SD10** 0-10V ELDOLED SOLOdrive Max distance: 36m (118ft)[1] (down to 0.1%)

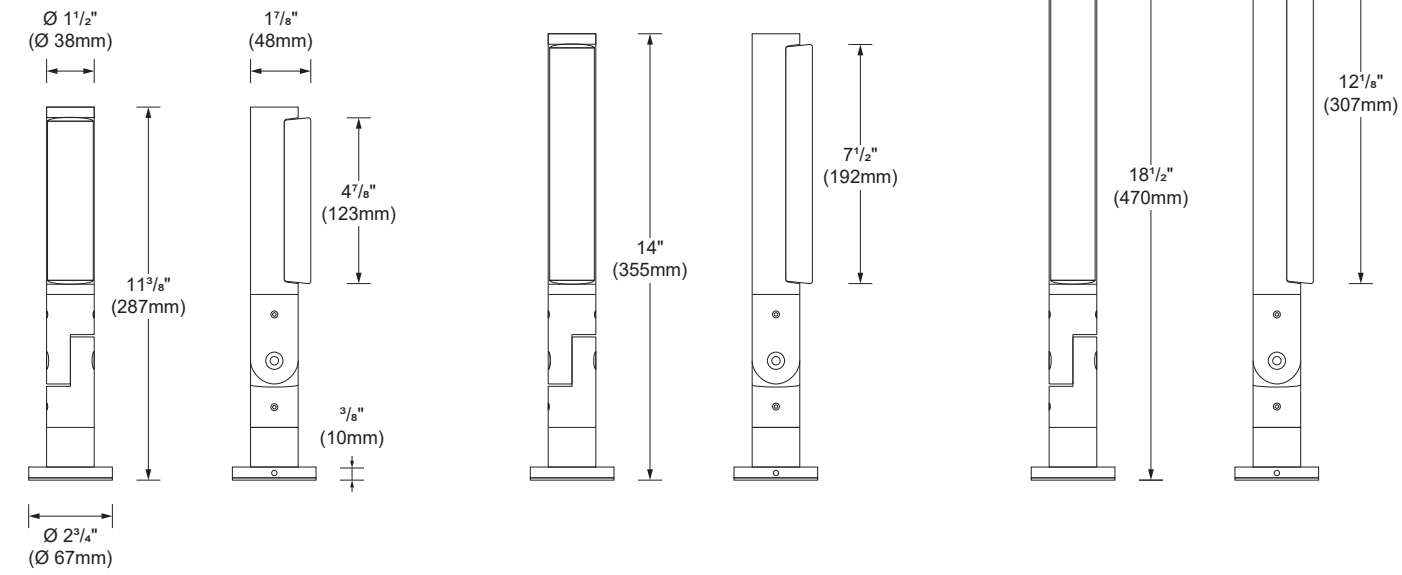
[1] Max distance cable calculated for 16AWG cable at full load. Contact customer service for longer remote distance.

WIRING DIAGRAMS
Fixture must be connected in series.

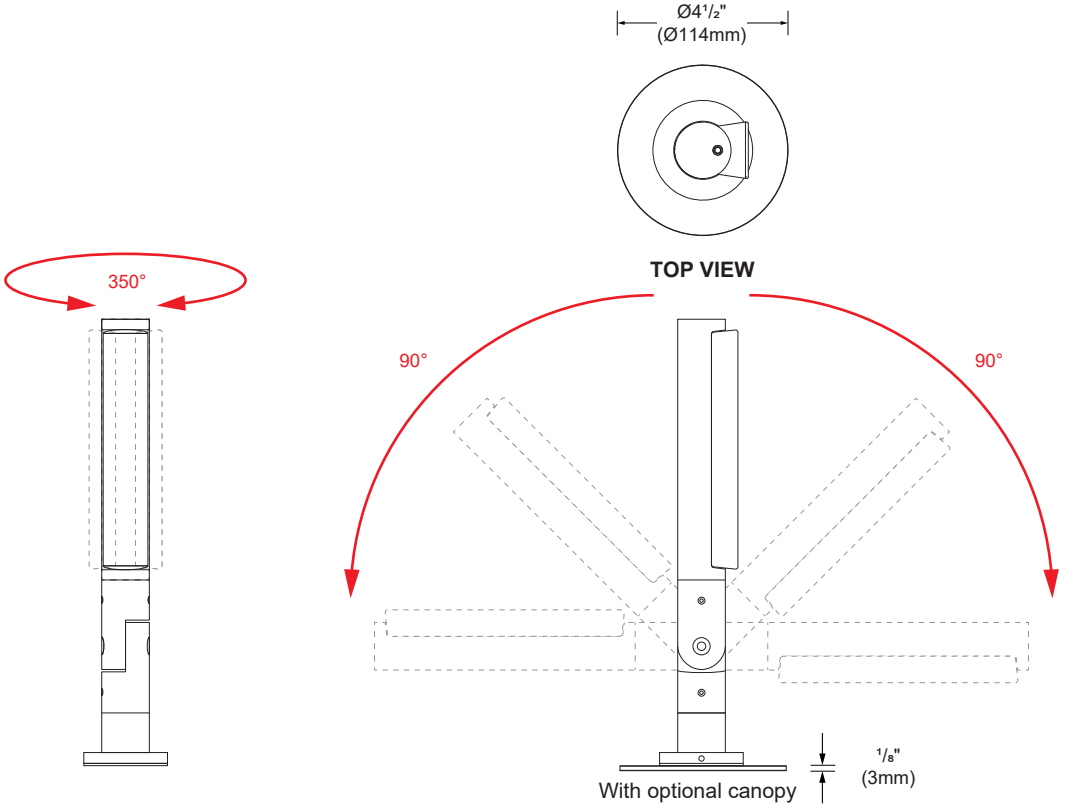


DIMENSIONS

Small S1751	Medium S1761	Large S1771



FRONT VIEW **SIDE VIEW** **FRONT VIEW** **SIDE VIEW** **FRONT VIEW** **SIDE VIEW**



TOP VIEW

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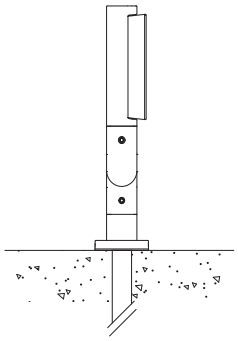
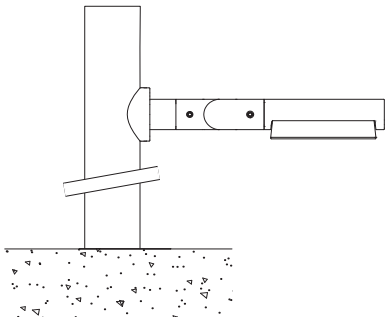
MOUNTING OPTIONS

SURFACE



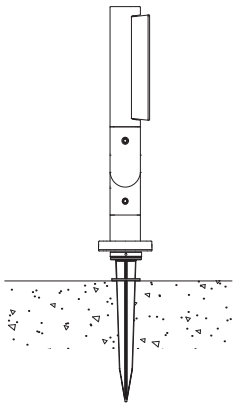
FW-REM - Fixture whip to remote power supply. Installed directly to surface with recessed pipe, exposed cable or electrical conduit.

POLE



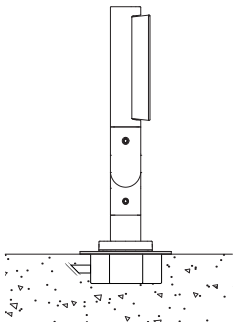
FW-REM - Mounting on pole with a die-cast aluminium flange suitable only for 2 3/8" (60mm)/ 3" (76mm) poles.

SOIL



FW-REM - Mounting on stake. 2" of the upper part stay out of the ground.

SURFACE ON JUNCTION BOX



JB-REM - 4" junction box with remote power supply. Mounting adapter plate for standard octagonal junction box installation.

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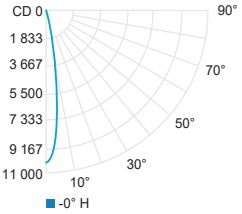
PHOTOMETRIC DATA

SMALL

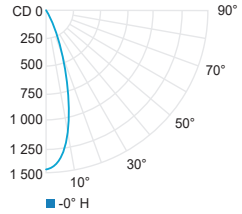
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	14W	Spot 10°	573	41	10 261	S1751W-SP
			Flood 32°	470	34	1 453	S1751W-FL
			Wide flood 60°	363	26	495	S1751W-WF
			Elliptical 60° x 10°	430	31	2 379	S1751W-ELL

Spot 10° (3000K, 90CRI)



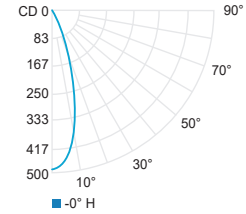
	Center beam fc	Beam width ft
2ft	2 562	0.4
4ft	640	0.9
6ft	285	1.3
8ft	160	1.7
10ft	102	2.1
12ft	71.2	2.6

Flood 32° (3000K, 90CRI)



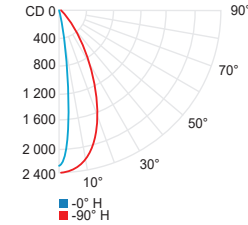
	Center beam fc	Beam width ft
2ft	363	0.4
4ft	90.8	0.9
6ft	40.4	1.3
8ft	22.7	1.7
10ft	14.5	2.1
12ft	10.1	2.6

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	124	2.0
4ft	31	4.1
6ft	13.8	6.1
8ft	7.74	8.1
10ft	4.96	10.1
12ft	3.44	12.2

Elliptical 60° x 10° (3000K, 90CRI)

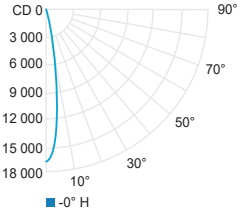


	Center beam fc	Beam width ft
2ft	363	1.2
4ft	90.8	2.3
6ft	40.4	3.5
8ft	22.7	4.7
10ft	14.5	5.8
12ft	10.1	7.0

MEDIUM

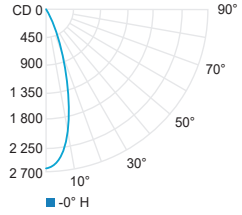
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	24.5W	Spot 10°	940	38	17 094	S1761W-SP
			Flood 32°	799	33	2 608	S1761W-FL
			Wide flood 60°	596	24	820	S1761W-WF
			Elliptical 60° x 10°	692	28	3 997	S1761W-ELL

Spot 10° (3000K, 90CRI)



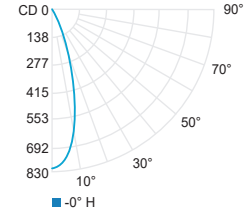
	Center beam fc	Beam width ft
2ft	4 267	0.4
4ft	1 067	0.8
6ft	474	1.3
8ft	267	1.7
10ft	171	2.1
12ft	119	2.5

Flood 32° (3000K, 90CRI)



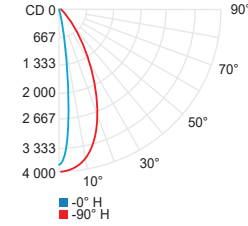
	Center beam fc	Beam width ft
2ft	652	1.1
4ft	163	2.3
6ft	72.5	3.4
8ft	40.8	4.5
10ft	26.1	5.7
12ft	18.1	6.8

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	205	2.0
4ft	51.3	4.0
6ft	22.8	6.0
8ft	12.8	8.0
10ft	8.20	10.0
12ft	5.69	12.1

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	991	0.3
4ft	248	0.7
6ft	110	1.0
8ft	62.0	1.3
10ft	39.7	1.7
12ft	27.5	2.0

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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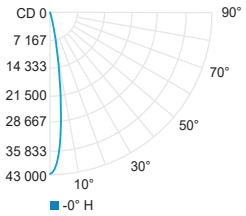
PHOTOMETRIC DATA

LARGE

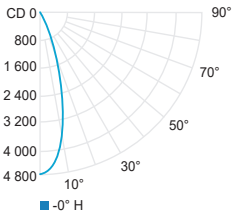
CCT (K)	CRI	LOAD* (W)	OPTIC	LUMENS (lm)	EFFICACY (lm / W)	MAX CANDELA (cd)	MODELS
3000K	90	34W	Spot 10°	1 705	51	42 206	S1771W-SP
			Flood 32°	1 418	42	4 730	S1771W-FL
			Wide flood 60°	1 023	30	1 450	S1771W-WF
			Elliptical 60° x 10°	1 218	36	7 633	S1771W-ELL

Spot 10° (3000K, 90CRI)



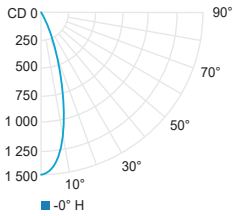
	Center beam fc	Beam width ft
2ft	10 531	0.4
4ft	2 633	0.7
6ft	1 170	1.1
8ft	658	1.4
10ft	421	1.8
12ft	293	2.2

Flood 32° (3000K, 90CRI)



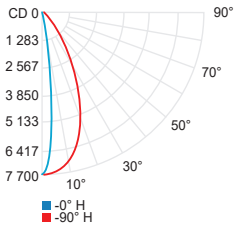
	Center beam fc	Beam width ft
2ft	1 183	1.1
4ft	296	2.2
6ft	131	3.4
8ft	73.9	4.5
10ft	47.3	5.6
12ft	32.9	6.7

Wide flood 60° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	363	2.0
4ft	90.7	4.0
6ft	40.3	5.9
8ft	22.7	7.9
10ft	14.5	9.9
12ft	10.1	11.9

Elliptical 60° x 10° (3000K, 90CRI)



	Center beam fc	Beam width ft
2ft	1 898	0.3
4ft	475	0.6
6ft	211	0.9
8ft	119	1.3
10ft	75.9	1.6
12ft	52.7	1.9

CCT options	2700K	3000K	4000K
CRI options	90CRI	90CRI	80CRI
Multiplier	**0.94**	**1**	**1.05**

*For products that use a remote LED driver, total system wattage will vary according to the efficacy of the remote LED driver selected.
Use multiplier table for other CCT and CRI output data. Efficacy based on IESNA LM-79 test reports.

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