

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 10/1/23 10:26 p.m.

Paid _____

☐ Initial Submittal

☐ 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 intérprete, 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 bhaib lus, tus neeg bhaib ntawv, los sis xav tau cov ntaub ntawv ua hwm hom ntawv los sis hwm cov kev pab kom paub bog 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): 6853 McKee Road - GDP 6728 Mader Road - Lot

Title: Ryan Funeral Homes

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

UDC meeting date requested November 1, 2023

77465

- ☐ New development ☐ Alteration to an existing or previously-approved development
☐ Informational ☐ Initial Approval ☒ Final Approval

3. Project Type

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

Signage

- ☐ Comprehensive Design Review (CDR)
☐ 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 Roman Ryan
Street address 2418 N Sherman Ave
Telephone 608-249-8257

Project contact person Brad Koning
Street address 2501 Parmenter St. Suite 100B
Telephone 608-836-7570

Property owner (if not applicant) Mad Grove LLC c/o Alex Weis
Street address 2248 Deming Way, Ste 200
Telephone 608-833-2929

Company Ryan Funeral Homes
City/State/Zip Madison WI 53704
Email info@RyanFuneralService.com

Company Sketchworks Architecture, LLC
City/State/Zip Middleton WI 53562
Email bkoning@sketchworksarch.com

City/State/Zip Middleton WI 53562
Email aweis@liveseyco.com

URBAN DESIGN DEVELOPMENT PLANS CHECKLIST

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)N/A ☐ **Filing Fee** (Refer to Section 7 (below) for a list of application fees by request type) Joint application with Land Use☒ **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**

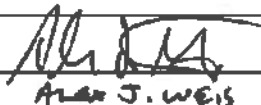
- Please provide an email to the District Alder notifying them that you are filing this UDC application. Please send this as early in the process as possible and provide a copy of that email with the submitted application.

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 on 03.24.2023.
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 Roman RyanRelationship to property Business Owner

Authorizing signature of property owner

Date 07.17.2023ALAN J. WEISS MAB GROVE LLC**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\(3\)\(d\)\(1\)\(o\) 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**



October 02, 2023

City of Madison
Urban Design Commission
Madison Municipal Building Suite. 017
215 Martin Luther King Jr. Blvd.
Madison WI 53701-2985

RE: Urban Design Commission Application
Final Approval Request
6853 McKee Road (GDP) / 6728 Mader Drive (SIP)

Dear Commission members:

Initial approval was granted by the UDC on September 6, 2023 for the Ryan Funeral Home located at 6728 Mader Drive. On behalf of Ryan Funeral Homes, Sketchworks Architecture, LLC is submitting revisions based on the recommendations provided as part of the initial approval. For reference, the recommendations are as follows:

At their September 6, 2023 meeting the UDC recommended "initial approval." This action signifies that the UDC believes the overall concept meets the relevant standards, though modifications to the design should be included before final approval and the issuance of permits. As part of this consideration, UDC discussed the roof mass, forms, and height, and recommend the item return to UDC for final review, subject to meeting the below conditions:

- The project shall return to the Urban Design Commission for Final Approval.
- The building design shall be revised to address the following design issues as noted by the Commission in their discussion, including looking at the windows again, the location of where there is stone versus stucco, and also the proportions and sloping and massing on the roofs.
- The landscape plan shall be revised as follows:
 - To show approximately three times as many perennials along the building foundation on either side of the main entrance.
 - To indicate shredded hardwood mulch versus stone in the planting beds.
 - To show mulch planting beds for the plantings underneath trees.
 - The location of the trees along McKee Road shall be shifted to be further away from the building entry.

Revision Summary:

As a Funeral Home, the owner's desire is to have a residential feel in its materials and details. The design includes similar materials of a high-end mountain style residential home, having natural stone along the base with large, multi-pane windows and hand-laid stucco. Heavy timber accents provide visual interest and depth. These details carry to the interior of the building as well. The roof will be architectural asphalt shingles having hip and gable roof forms, prevalent in this architectural style.

The landscape plan has been revised showing the tree spacing at the main entrance along McKee Road widened to provide greater visibility to the gabled entry element. Hardwood mulch is to be used under all trees and landscape beds. Landscape beds have been added along the eastern edge of the parking lot as recommended. The final recommendation on the landscape plan was to increase the number of perennials along the south building foundation at the main entrance. In addition to the increase in perennials, we have added taller plantings including North Pole arborvitae at the wall areas where windows are not desired due to the functional interior space. Other modifications to the site plan include a sidewalk at the head of the ADA stalls and (2) future EV stalls located adjacent to the bike stalls to the east.

The building design changes recommended by the UDC were carefully considered. Several design options were reviewed with the owner and their selection is presented to the UDC for final approval herein. To address the comments regarding the second floor windows, a horizontal trim board was added that divides the first floor from the second floor. The trim board visually separates the lower windows from the upper. In addition, the number of vertical reveals and control joints in the hand-laid stucco have also been reduced to decrease the visual connection between the windows top to bottom.

The addition of the trim board also provides the ability to visually reduce the overall area of the hand-laid stucco using two colors. The stone veneer was removed between the windows, and focused on both main gable entry forms. Stone veneer was left below the window sills, and at the outside building corners where the stone is aligned with the taller piers of the covered patio and canopies. The horizontal trim board aligns with the soffit of the chapel roof, creating additional depth in the roof and reducing the amount of wall above the chapel window heads as mentioned in general comments by the UDC.

The mix of gable roof style at the main entry with hip roofs are prevalent in mountain style architecture which this building emulates. The design team did look at several options, including dormers, raising the wall height, and modifying the roof edge in order to reduce the overall mass of the chapel roof when viewed in true elevation. We referred to comments made at the informational presentation, where the UDC urged the design team to simplify the roof and eliminate the dormers, timber brackets, and associated details. The roof as shown meets the intent of the initial comments while creating an overall building mass that is in line with of the UDC and Plan Commission, while adhering to the design standards. No building is viewed in true elevation, and the context around this building should be considered. Adjacent to the Chapel, a green space is shown on the approved GDP site plan to the east along McKee Rd. Maintaining a single story adjacent to this green space provides a more human scale, while maintaining a 12' exterior wall and abundant landscape with larger caliper trees at the request of UDC to enhance the streetscape. Although the roof forms did not significantly change, the Ryan's desire to maintain a hip roof at each end of the building does contribute to the reduction of the overall roof mass. The roof slope itself is also shallow and visually does not appear large in scale when viewed from the sidewalk or parking lot as shown in the attached renderings.

**Zoning District:**

The property is currently zoned PD, with a base zoning of (CC-T) Commercial Center - Transitional
Urban Design District - None.

Project Schedule:

The project construction schedule will be as follows:

Pre-Application Meeting	03.31.2023
Development Assistance Team Mtg.	04.13.2023
Alder Notification – District 7	04.19.2023
UDC Meeting – Informational	05.31.2023
Neighborhood Meeting	06.22.2023
UDC Meeting – Initial Approval	09.06.2023
Plan Commission Approval	09.18.2023
Common Council Meeting	10.17.2023
UDC Meeting – Final Approval Requested	11.01.2023
Start Construction (TBD)	11.15.2023
Complete Construction (TBD)	06.01.2024

Project Team:

The key individuals and firms involved in this planning and design process include:

Building Owner:

Ryan Funeral Homes
2418 N. Sherman Ave.
Madison WI 53704
Contact: Roman Ryan
(608) 575-0662

Architect:

Sketchworks Architecture, LLC
2501 Parmenter St. Ste 100B
Middleton, WI 53562
Contact: Brad Koning
(608) 836-7570

Civil Engineer (Lot 2):

Burse Engineering & Surveying, Inc.
2801 International Lane, Suite 101
Madison WI 53704
Contact: Peter Fortlage
(608) 250-9263

Civil Engineer (GDP):

D'onofrio Kottke and Associates, Inc.
7530 Westward Way
Madison WI 53717
Contact: Bruce Hollar
(608) 833-7530

Please feel free to contact us with any questions you may have regarding this request.

Respectfully,

A handwritten signature in black ink that reads "Bradley Koning".

Brad Koning
Sketchworks Architecture, LLC

RYAN FUNERAL HOMES

6728 MADER DRIVE
MADISON, WI 53719

PROJECT DATA

LOCATION:
6853 MCKEE ROAD
MADISON, WI 53719

REGULATING MUNICIPALITIES:
CITY OF MADISON
DANE COUNTY
STATE OF WISCONSIN

BUILDING CODE:
CITY OF MADISON ZONING ORDINANCES
DANE COUNTY ZONING ORDINANCES
WISCONSIN ADMINISTRATIVE CODE
2015 INTERNATIONAL BUILDING CODE
ACCESSIBILITY ANSI A117.1 - 2009

PROJECT DESCRIPTION:
NEW BUILDING CONSISTING OF: 2 STORIES OF CHAPEL AND
FUNERAL PARLOR WITH OFFICES AND STORAGE

OCCUPANCY TYPE:
PRIMARY: A-3
SECONDARY: B, S-1

CONSTRUCTION TYPE: VB

ALLOWABLE BUILDING AREA & HEIGHT:
MAXIMUM HEIGHT ABOVE GRADE PLANE = 60 FEET
(IBC TABLE 504.3)
MAXIMUM STORIES ALLOWED = 2 STORIES
(IBC TABLE 504.4)
MAXIMUM AREA ALLOWED PER FLOOR = 18,000 SF
(IBC TABLE 506.2)
AREA MODIFICATIONS (IBC SECTION 508) = 13,500 SF
TOTAL MAXIMUM ALLOWABLE AREA PER FLOOR = 31,500 SF

ACTUAL BUILDING AREA & HEIGHT:
HEIGHT ABOVE GRADE PLANE = 28 FEET
STORIES ABOVE GRADE PLANE = 2 STORIES
FIRST FLOOR AREA = 7,440 SF
SECOND FLOOR AREA = 2,950 SF

NUMBER OF OCCUPANTS (TABLE 1004.1.2):
A-3 OCC (SEATING) = 1,363 SF/ 7 NET = 126 OCC
A-3 OCC (SOCIAL) = 1,542 SF/ 15 NET = 101 OCC
B OCCUPANCY = 4,535 SF/ 100 GROSS = 46 OCC
S-1 OCCUPANCY = 2,950 SF/ 300 GROSS = 10 OCC
TOTAL OCCUPANTS = 283 OCC

PLUMBING:

SPACE		WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINK
OCCUPANCY	LOAD	MALE	FEMALE	MALE	FEMALE		
A-3	330	1.10	2.20	0.83	0.83	0.03	1
B	15	0.30	0.30	0.19	0.19	0.15	SEE TABLE 403.1
S-1 & S-2	5	0.03	0.03	0.03	0.03	0.00	1
SUBTOTALS	350	1.43	2.53	1.04	1.04	0.15	2.00
REQ'D TOTALS		2	3	2	2	1	2
TOTAL PROVIDED		2	3	2	2	1	1

ALL FIXTURES TO COMPLY WITH ICC A117.1

FIRE CONTROL:

NON-SPRINKLERED BUILDING
PORTABLE FIRE EXTINGUISHERS (IBC SECTION 906.3.1)
HAZARD TYPE = LOW
MAXIMUM AREA = 3,000 SF PER "A"
MAXIMUM DISTANCE (TYPE [A OR B]) = 50 FEET
EXTINGUISHER RATING = 2-A-5-B
NUMBER REQUIRED AT ABOVE RATING = 8

EXITS:

EXIT(S) REQUIRED TO MEET EXIT REQ'T. = 3
EXIT(S) PROVIDED = 3
MIN 60% OF PUBLIC EXTERIOR DOORS TO BE ON ACCESSIBLE ROUTE

ACCESSIBILITY:

FOLLOW IBC 2015 AND ANSI 117.1 (2009)

COMCHECK DESIGN (2015 IECC):

PERIMETER FOUNDATION: R-10 RIGID
WALLS: R-19 BATT
ROOF: R-38 BATT (14" BLOWN)

PROJECT GENERAL NOTES:

- CONTRACTOR SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERING ANY DISCREPANCIES OR CONFLICTING INFORMATION IN THESE DOCUMENTS. CONTRACTOR SHALL CAREFULLY REVIEW AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD AND BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT AND ENGINEER(S) FOR CLARIFICATION.
- DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED EXISTING SITE CONDITIONS AFFECTING THE EXECUTION OF THESE DOCUMENTS (SUCH AS HAZARDOUS MATERIALS, ETC.).
- CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE AND FEDERAL CODES AND REGULATIONS GOVERNING THIS PROJECT.
- JOB SITE SHALL BE BROOM SWEEPED AND CLEAN AT THE END OF EACH DAY. ALL DEBRIS SHALL BE PICKED UP AND DISPOSED OF PROPERLY INTO APPROVED CONTAINER.
- MAINTAIN DESIGNATED EGRESS ROUTES DURING CONSTRUCTION BY KEEPING CLEAR OF CONSTRUCTION DEBRIS AND CLEARLY MARKING THE PATH OF EGRESS TRAVEL.
- ALL MECHANICAL (HVAC), ELECTRICAL, PLUMBING AND FIRE PROTECTION (MEP & FP) DESIGN AND CONSTRUCTION TO BE BY A DESIGN-BUILD DELIVERY METHOD AND ARE SUBSEQUENTLY NOT PART OF THESE DOCUMENTS. IT IS THE MEP CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE GENERAL CONTRACTOR AND WITH THESE DRAWINGS THE FINAL DESIGN, RETROFIT AND INSTALLATION OF THESE SYSTEMS. NOTIFY THE ARCHITECT PRIOR TO MAKING ANY REVISIONS TO THE STRUCTURE OR ARCHITECTURAL FEATURES.
- HVAC CONTRACTOR SHALL SUBMIT PROPER DESIGN DRAWINGS AS NEEDED FOR PLAN APPROVAL AND BUILDING PERMITS.
- WITHIN THIS DOCUMENT "NORTH, SOUTH, EAST, WEST" ARE REFERRED TO AS PROJECT NORTH AND MAY NOT BE TRUE NORTH.
- ALL EXPOSED WOOD AND/OR WOOD IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
- PROVIDE GFI OUTLETS NEAR WATER SOURCES AND AS REQUIRED BY IEC.
- PROVIDE FIRE BLOCKING AND DRAFTSTOPPING THROUGHOUT BUILDING PER IBC CHAPTER 7.
- SUBMIT ALL FIXTURES, APPLIANCES, MATERIALS, SHOP DRAWINGS, PLAN MODIFICATIONS TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- IN SOME CASES THE SELECTION OF SPECIFIC ACCESSORIES, HARDWARE, MATERIALS OR FINISHES MAY NOT BE AVAILABLE AT ISSUANCE OF THESE DRAWINGS. THESE INSTANCES ARE INDICATED WITH "TBD", OR "TO BE DETERMINED". IN THESE SITUATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING APPROPRIATE ALLOWANCES TO COVER THE MATERIAL AND INSTALLATION FOR THAT ELEMENT, BASED ON THE BEST INFORMATION PROVIDED. IF NO INFORMATION IS PROVIDED, ASSUME A MID-RANGE PRODUCT COST TO SATISFY THE INTENT OF THE PROJECT. THE CONTRACTOR SHALL CLEARLY STATE IN THEIR BID PROPOSAL WHAT THE ALLOWANCE VALUE AND UNIT PRICE IS, LISTED SEPARATELY FOR EACH ITEM.
- IF THE CONTRACTOR ELECTS TO NOT PROVIDE A PRICE FOR ANY ELEMENT CONTAINED IN THESE DOCUMENTS, FOR WHATEVER REASON, THE CONTRACTOR SHALL CLEARLY INDICATE THIS EXCLUSION IN THEIR BID PROPOSAL. IF NO EXCLUSION IS MADE, IT IS THE CONTRACTUAL OBLIGATION OF THE CONTRACTOR TO PROVIDE THE ELEMENT IN ACCORDANCE WITH THE GENERAL INTENT OF THE DRAWINGS.
- IN THE EVENT OF CONTRADICTION OF DOCUMENTS, SPECIFICATIONS SHALL TAKE PRECEDENT. IF A CONTRADICTION REMAINS, OR IF THE SPECIFICATION DOES NOT CLARIFY, THEN THE CONTRACTOR SHALL ASSUME THE MOST EXPENSIVE OF THE MATERIALS AND INSTALLATION WHEN COMPARING THE CONTRADICTORY ITEMS.

SHEET INDEX

SHEET NUMBER	SHEET NAME	REVISIONS	
		MARK	DATE
GENERAL			
G001	COVER SHEET		
G002	CONTEXT IMAGES		
CIVIL			
C001	CIVIL DETAILS		
C002	CIVIL DETAILS		
C100	EXISTING CONDITIONS		
C300	EROSION CONTROL PLAN		
C400	CIVIL SITE PLAN		
C500	GRADING PLAN		
C600	UTILITY PLAN		
C700	FIRE ACCESS PLAN		
EXTERIOR ELECTRICAL			
ES101	SITE LIGHTING PLAN		
LANDSCAPE			
L101	LANDSCAPING PLAN		
ARCHITECTURAL			
A101	FIRST FLOOR PLAN		
A102	SECOND FLOOR PLAN		
A104	ROOF PLAN		
A201	EXTERIOR ELEVATIONS		
A202	EXTERIOR ELEVATIONS		
A203	EXTERIOR ELEVATIONS COLOR		
A204	EXTERIOR ELEVATIONS COLOR		
A205	ELEVATION STUDY		
A301	BUILDING SECTIONS		
PRESENTATION			
A901	EXTERIOR RENDERS		

PROJECT LOCATION



BUILDING LOCATION



RYAN FUNERAL HOMES

NEW CONSTRUCTION

6728 MADER DRIVE
MADISON, WI 53719

Project Status

2023.07.14	UDC SUBMITTAL
2023.10.02	UDC SUBMITTAL

PROJ. #:

23026-01

© SKETCHWORKS
ARCHITECTURE 2023

COVER SHEET

G001

PRELIMINARY

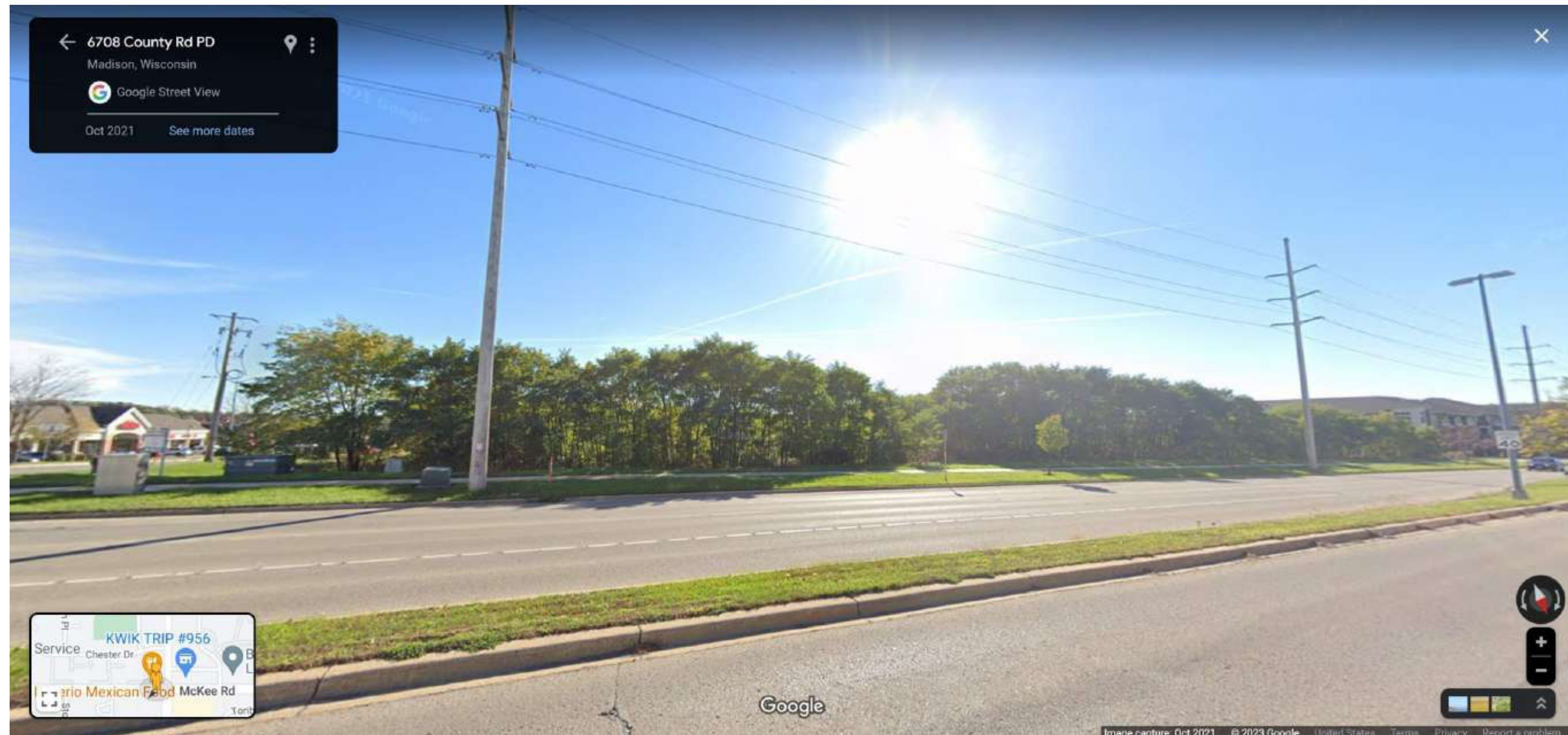
PROJECT CONTACTS:

OWNER:
RYAN FUNERAL HOMES
6728 MADER DRIVE
MADISON, WI 53719

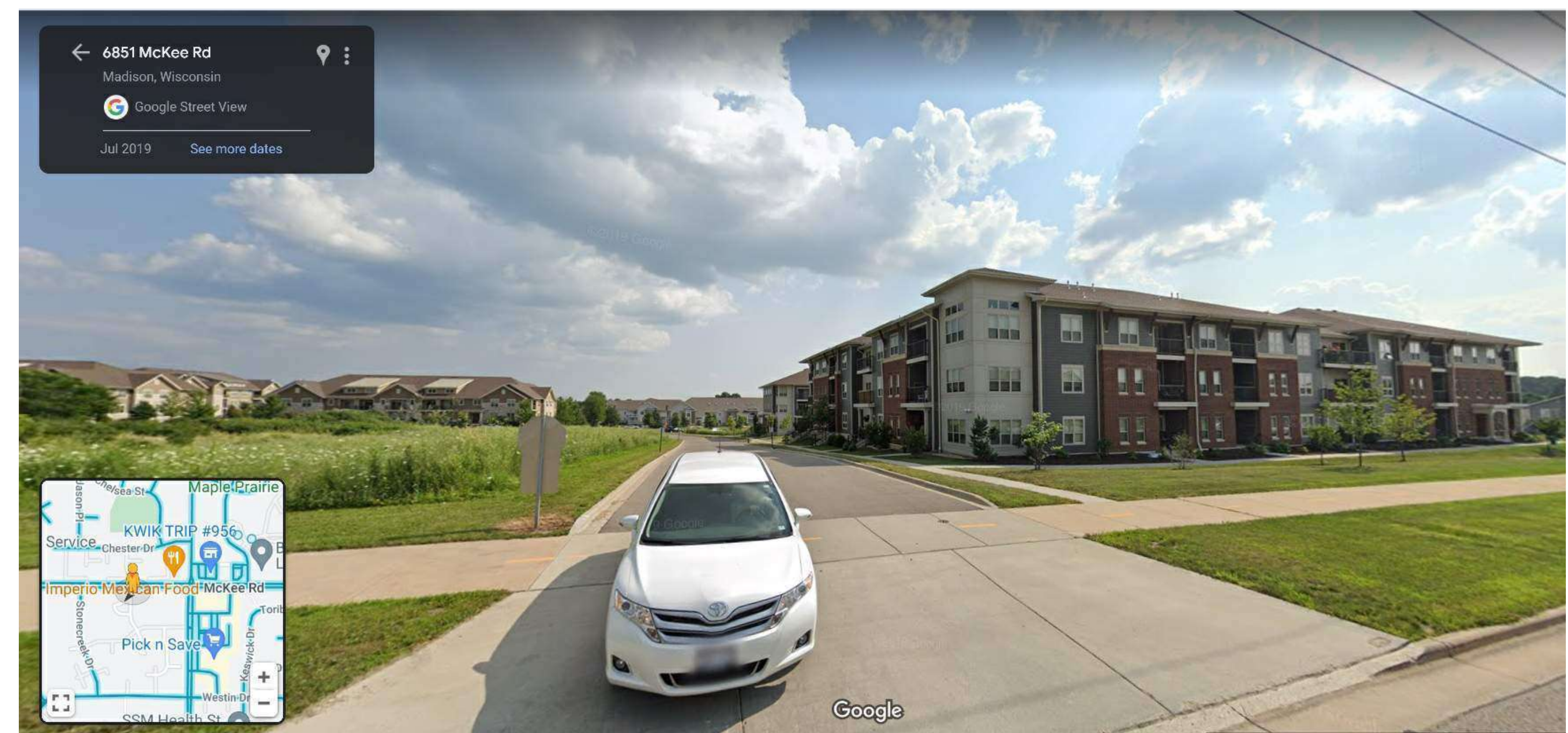
ARCHITECT:
SKETCHWORKS ARCHITECTURE, LLC
2501 PARMENTER STREET, SUITE 100B
MIDDLETON, WI 53562

CONTACT:
ROMAN RYAN (OWNER)

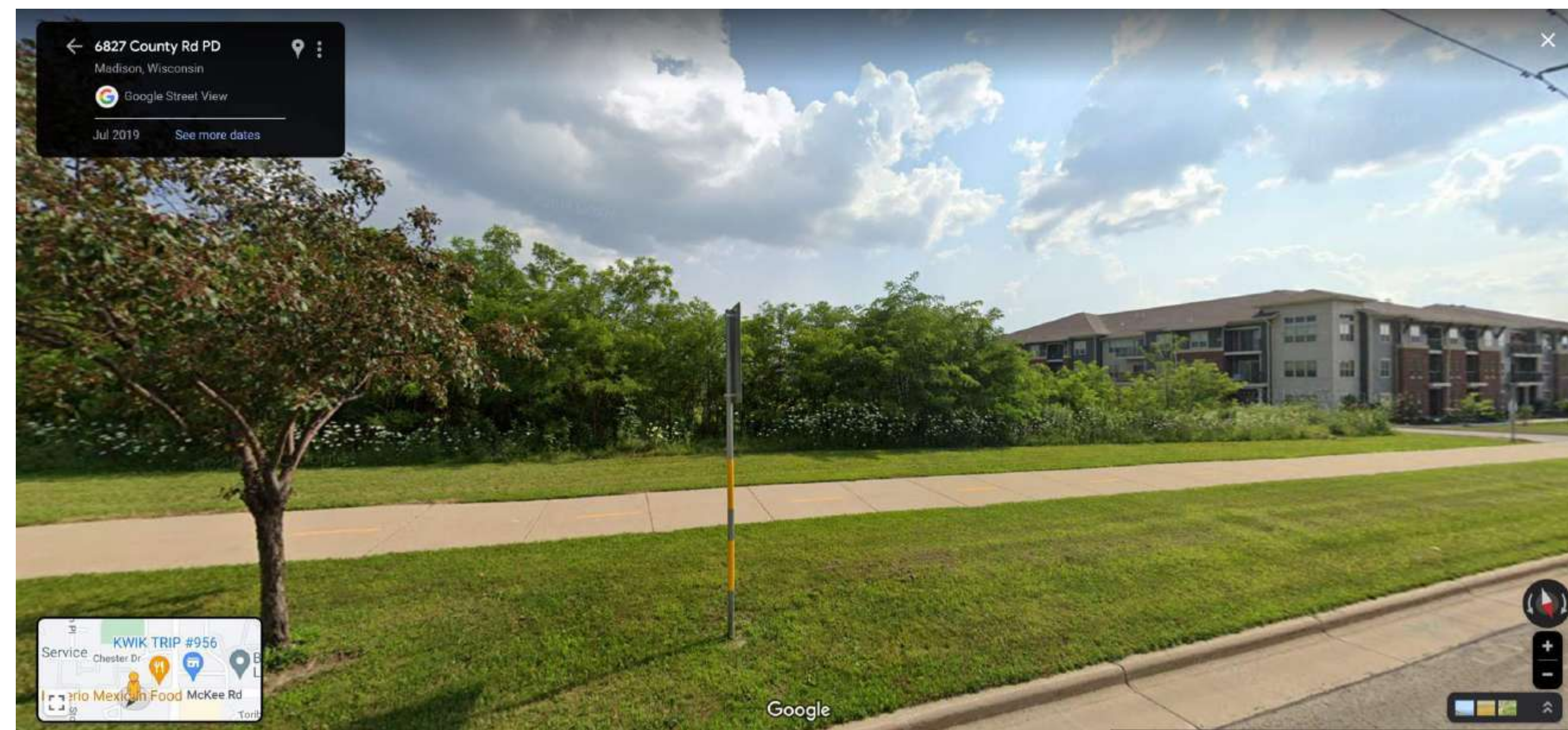
CONTACT:
BRAD KONING (ARCHITECT)
IAN LUECHT (DESIGNER)
608-936-7570



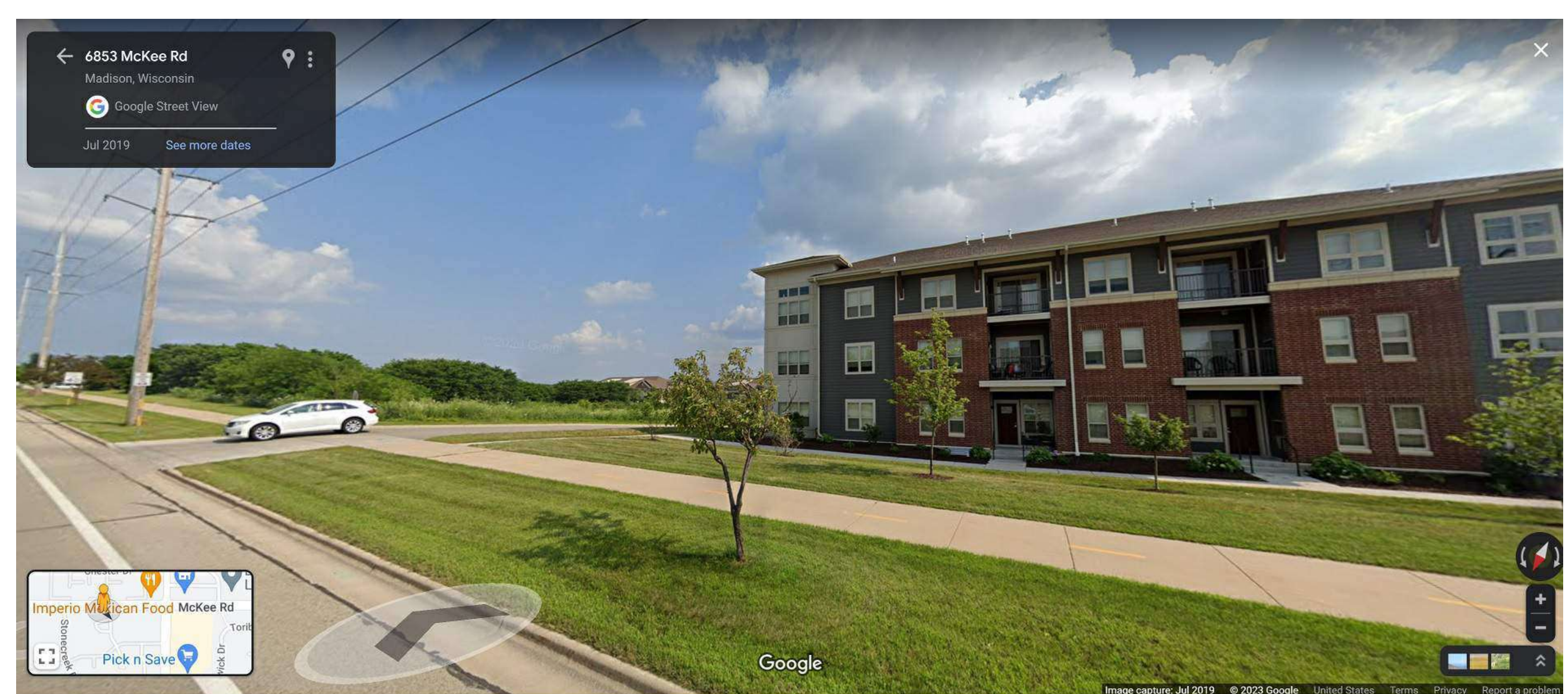
NORTHWEST VIEW - CORNER OF McKEE ROAD AND MAPLE GROVE



SOUTHWEST VIEW - GOLDEN COOPER LANE AND MCKEE ROAD



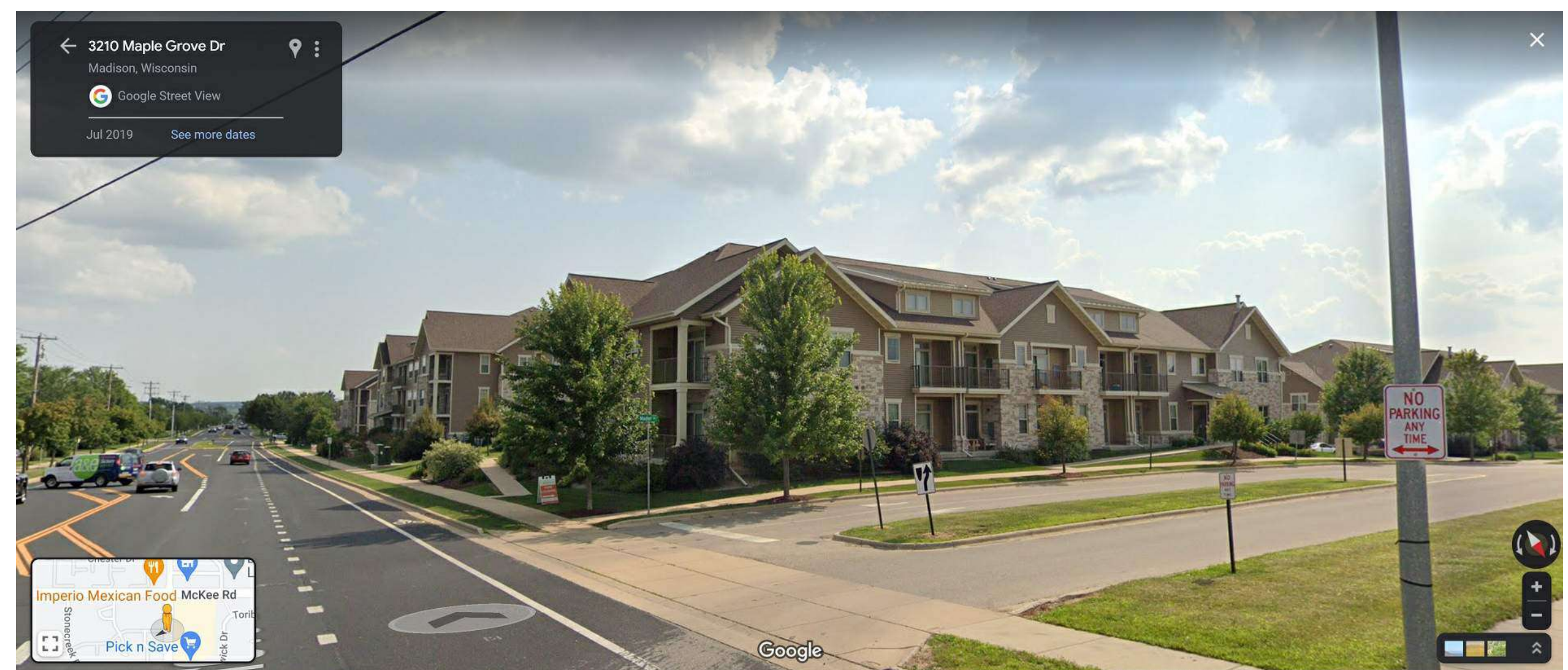
NORTHWEST VIEW OF VACANT PROPERTY



SOUTHEAST VIEW - GOLDEN COOPER LANE AND MCKEE ROAD



NORTH MCKEE ROAD - ACROSS STREET FROM DEVELOPMENT



SOUTHWEST VIEW - MADER DRIVE AND MAPLE GROVE DRIVE

RYAN FUNERAL HOMES

NEW CONSTRUCTION

6728 MADER DRIVE

MADISON, WI 53719

Project Status

2023.04.24	UDC INFO
2023.07.14	UDC SUBMITTAL
2023.10.02	UDC SUBMITTAL

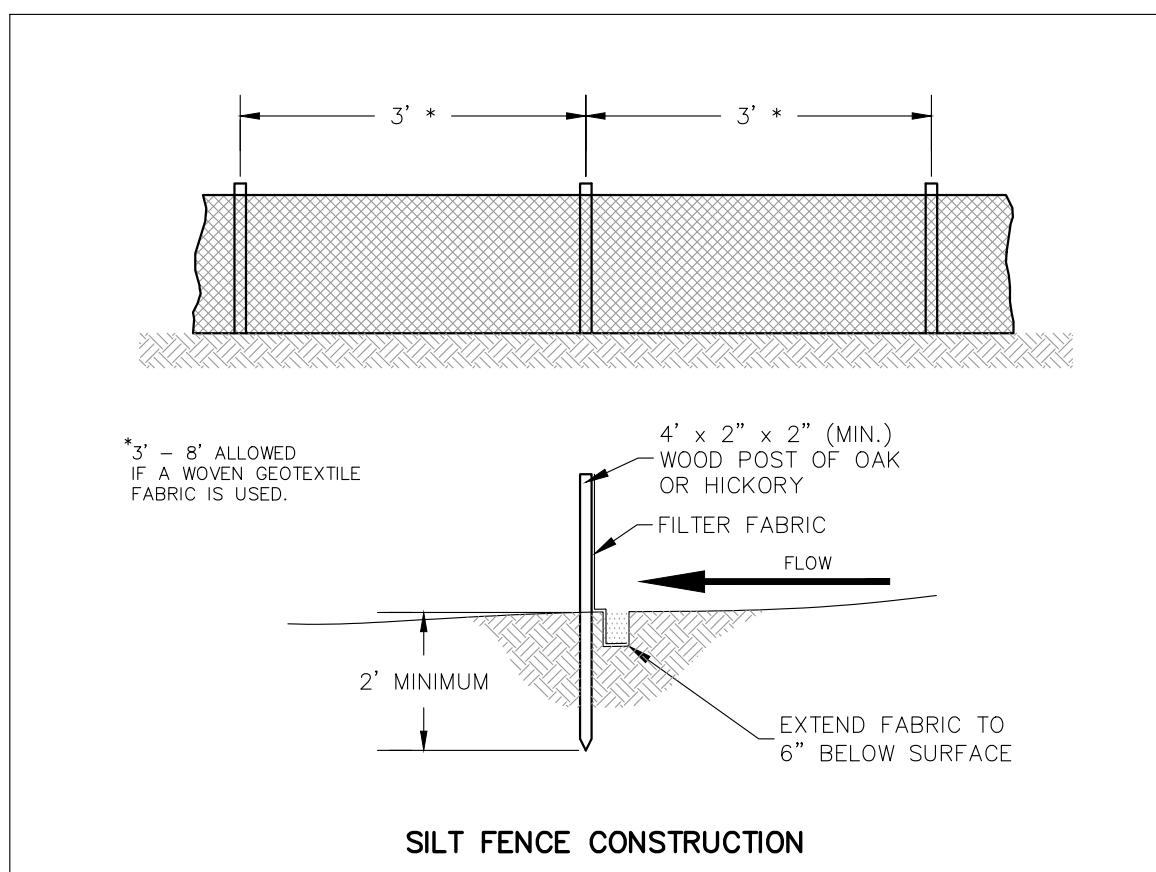
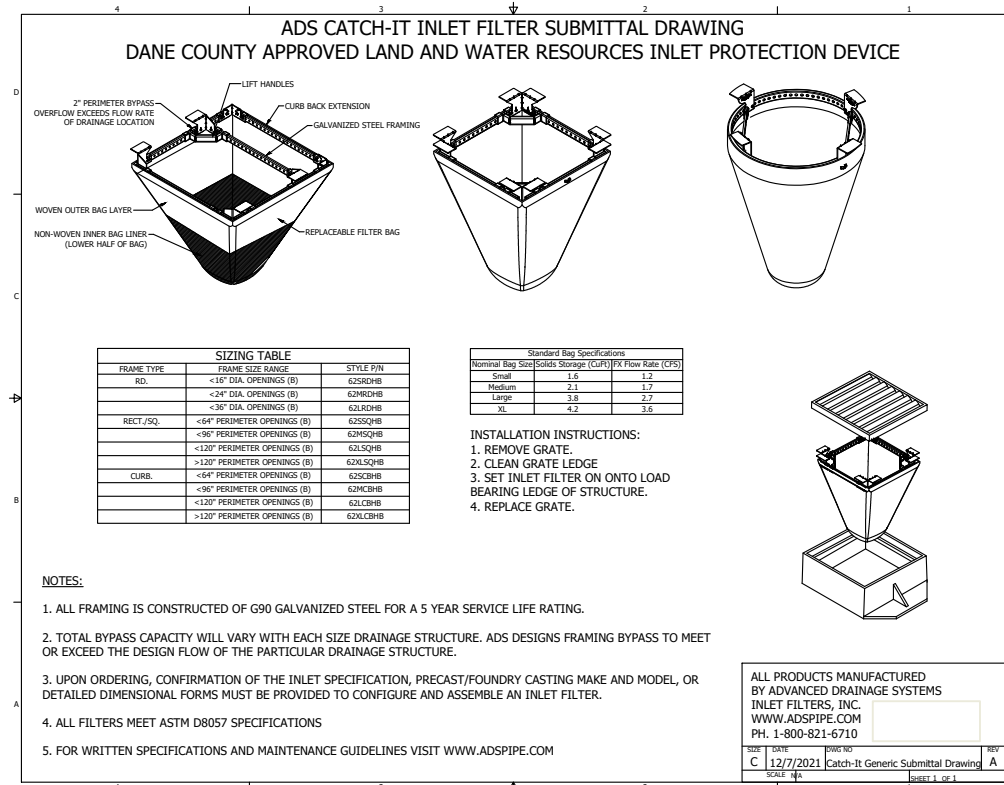
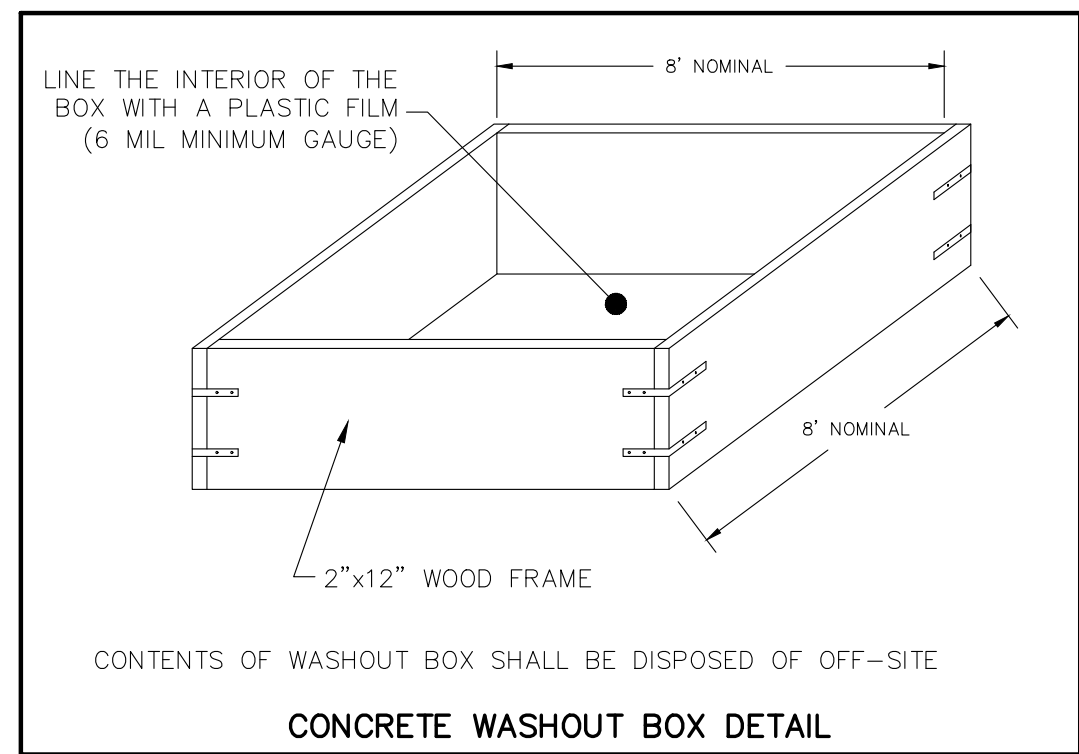
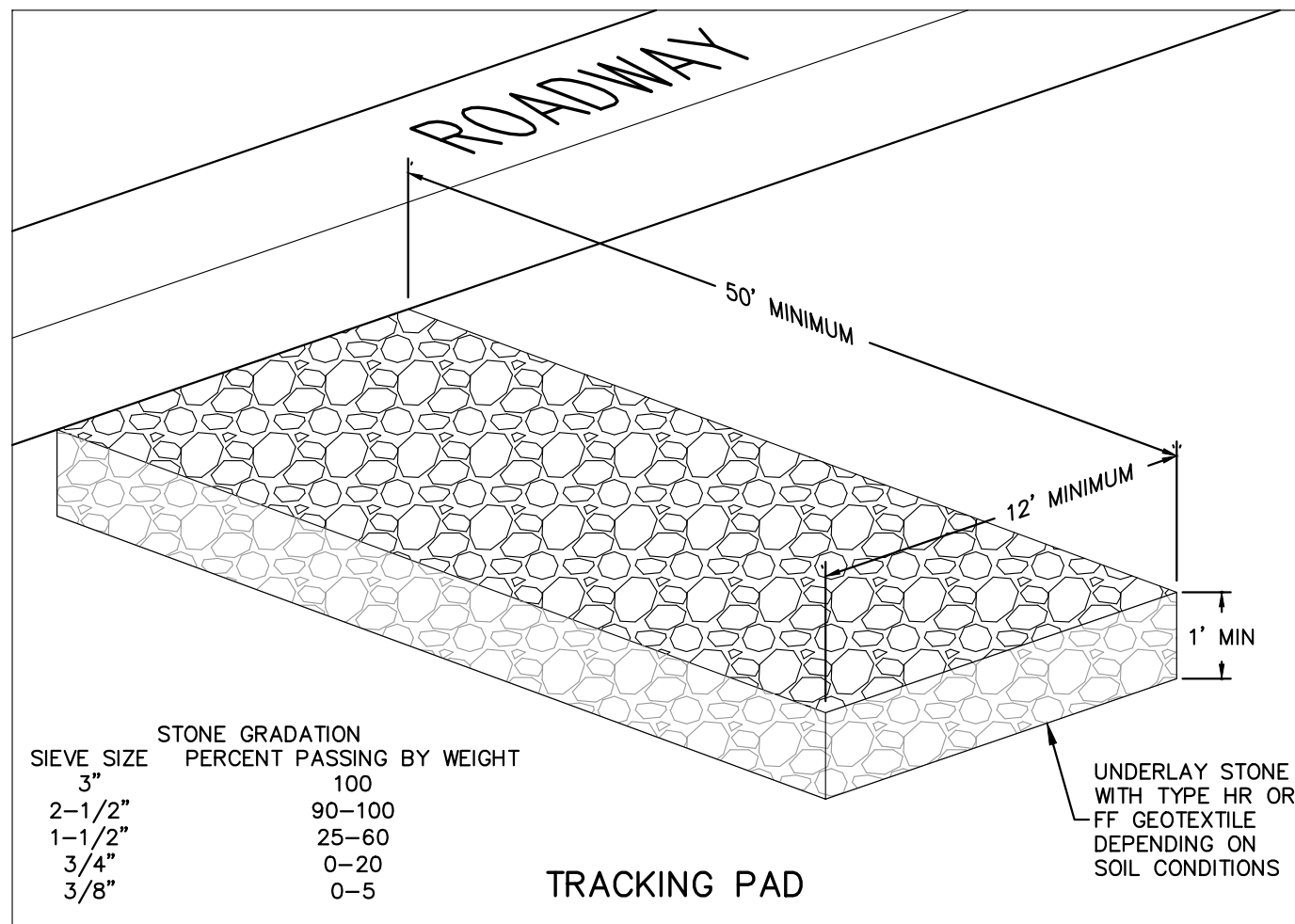
PROJ. #:	23026-01
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CONTEXT IMAGES

G002

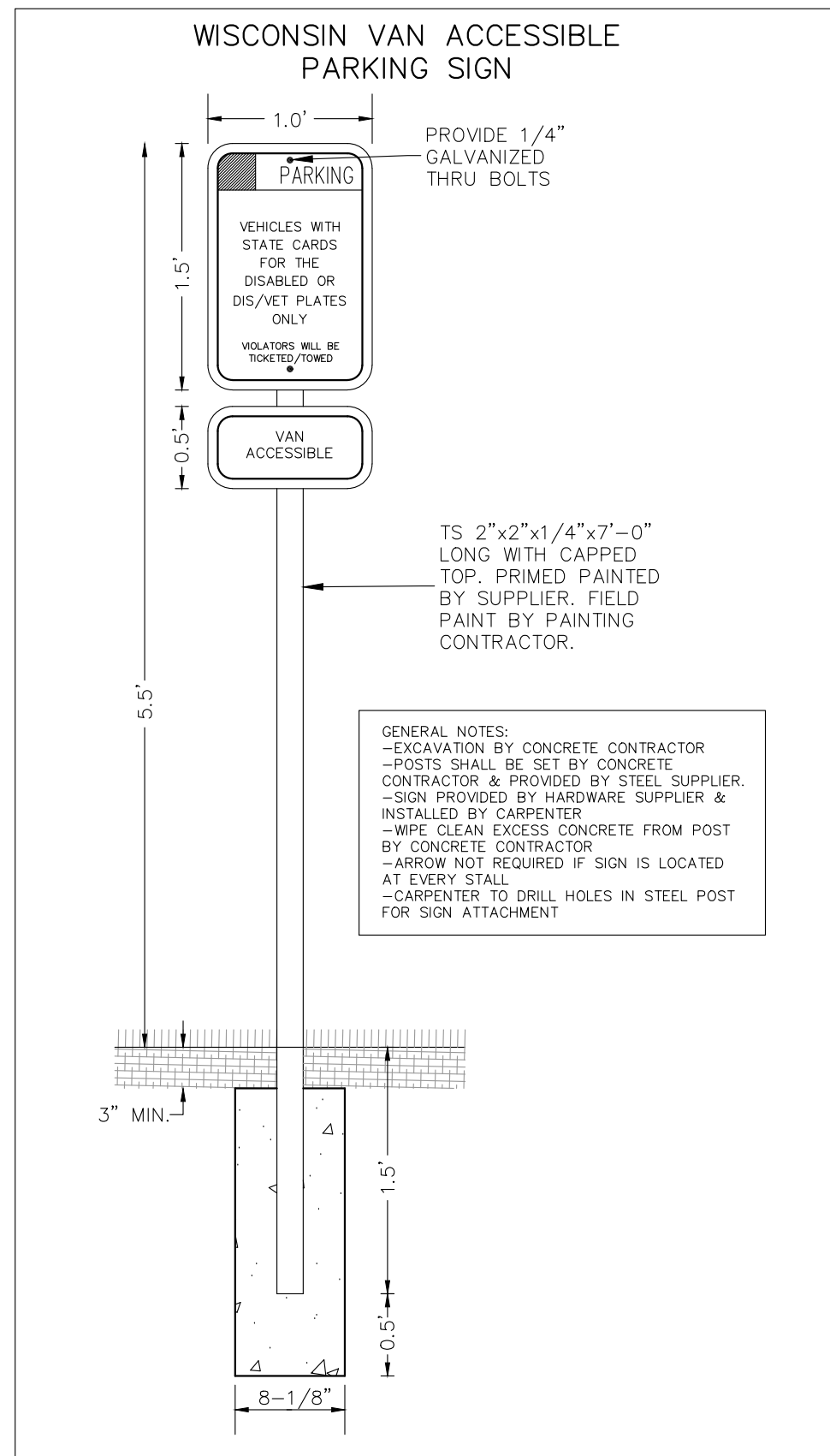
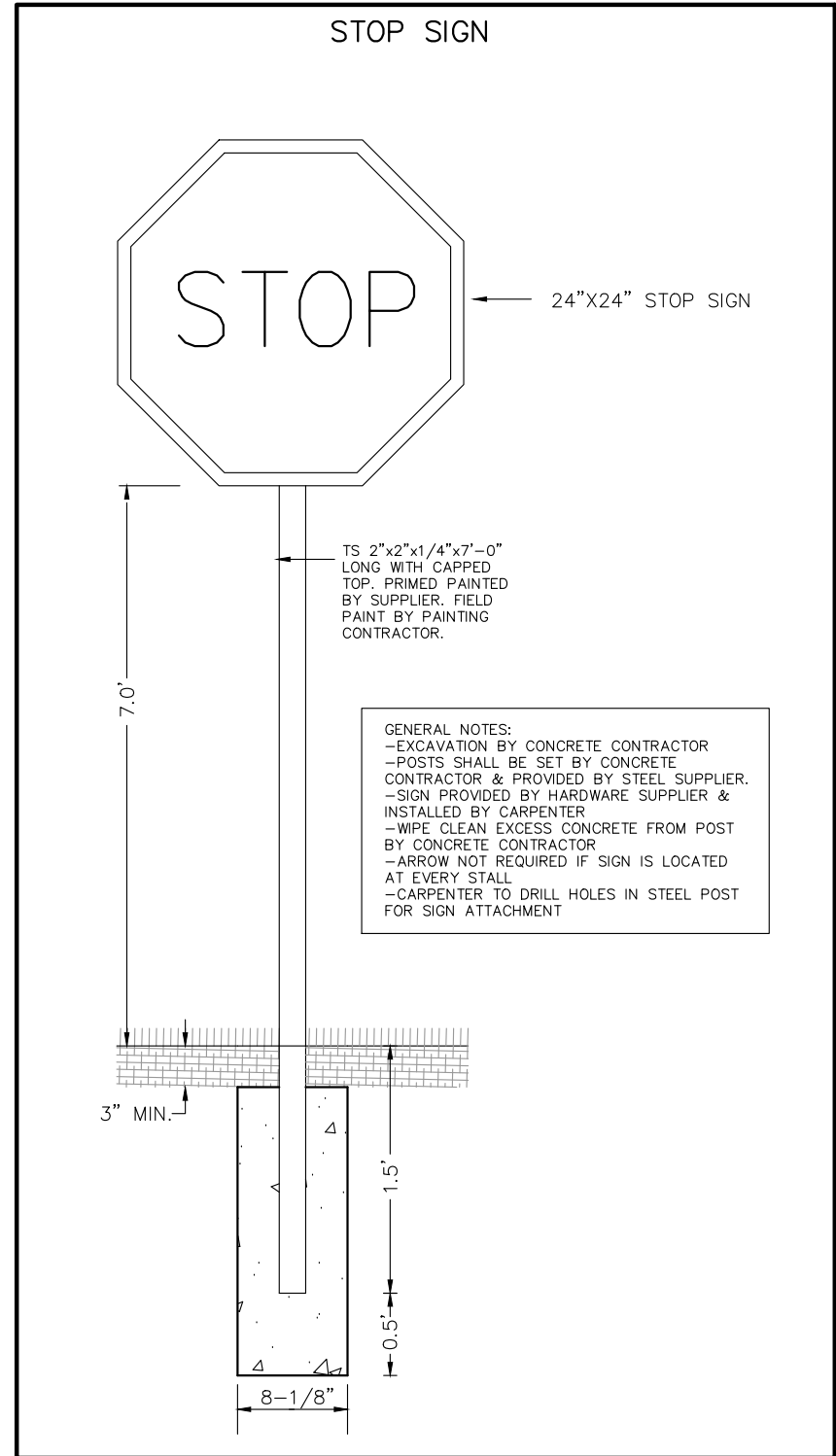
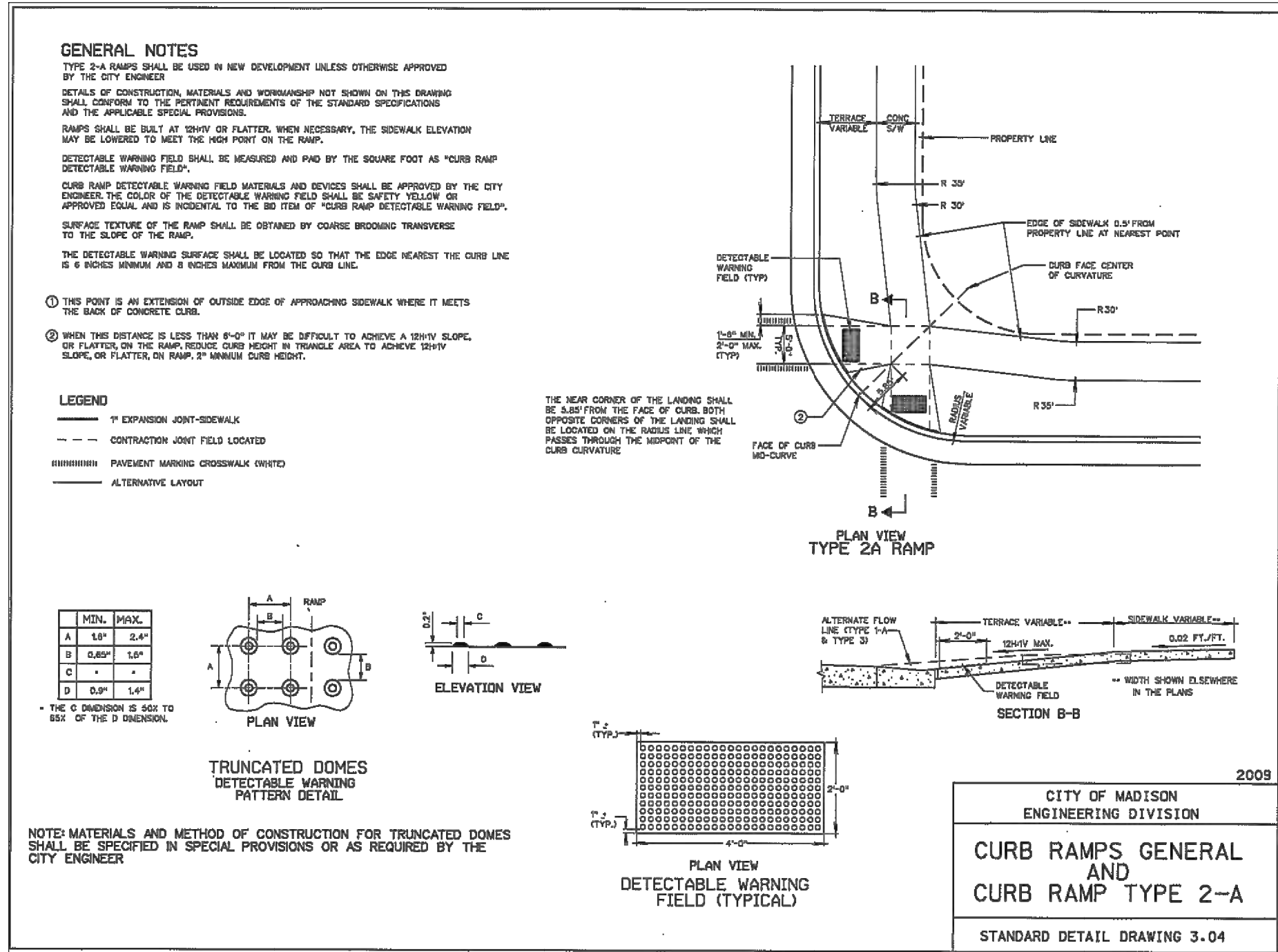
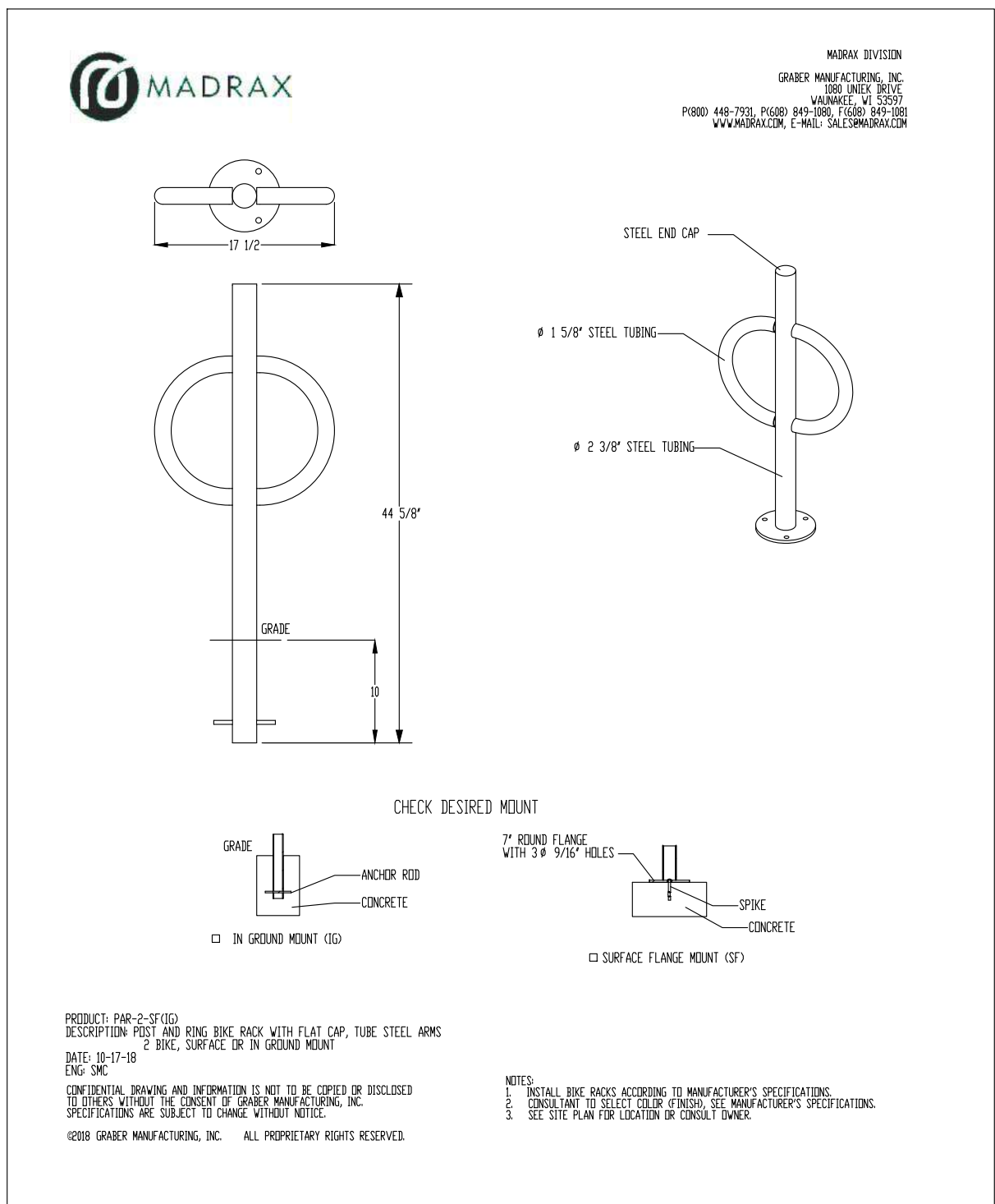
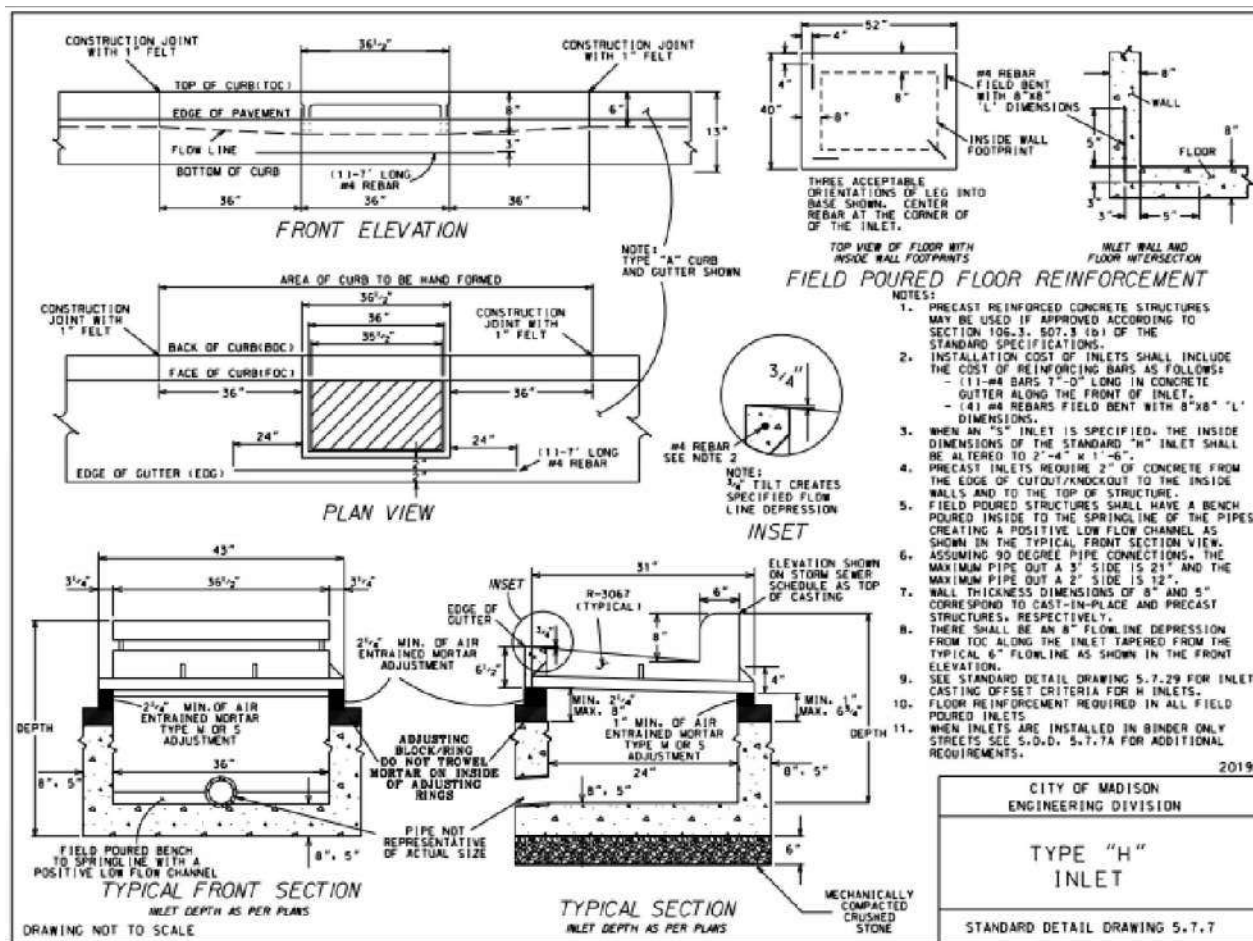
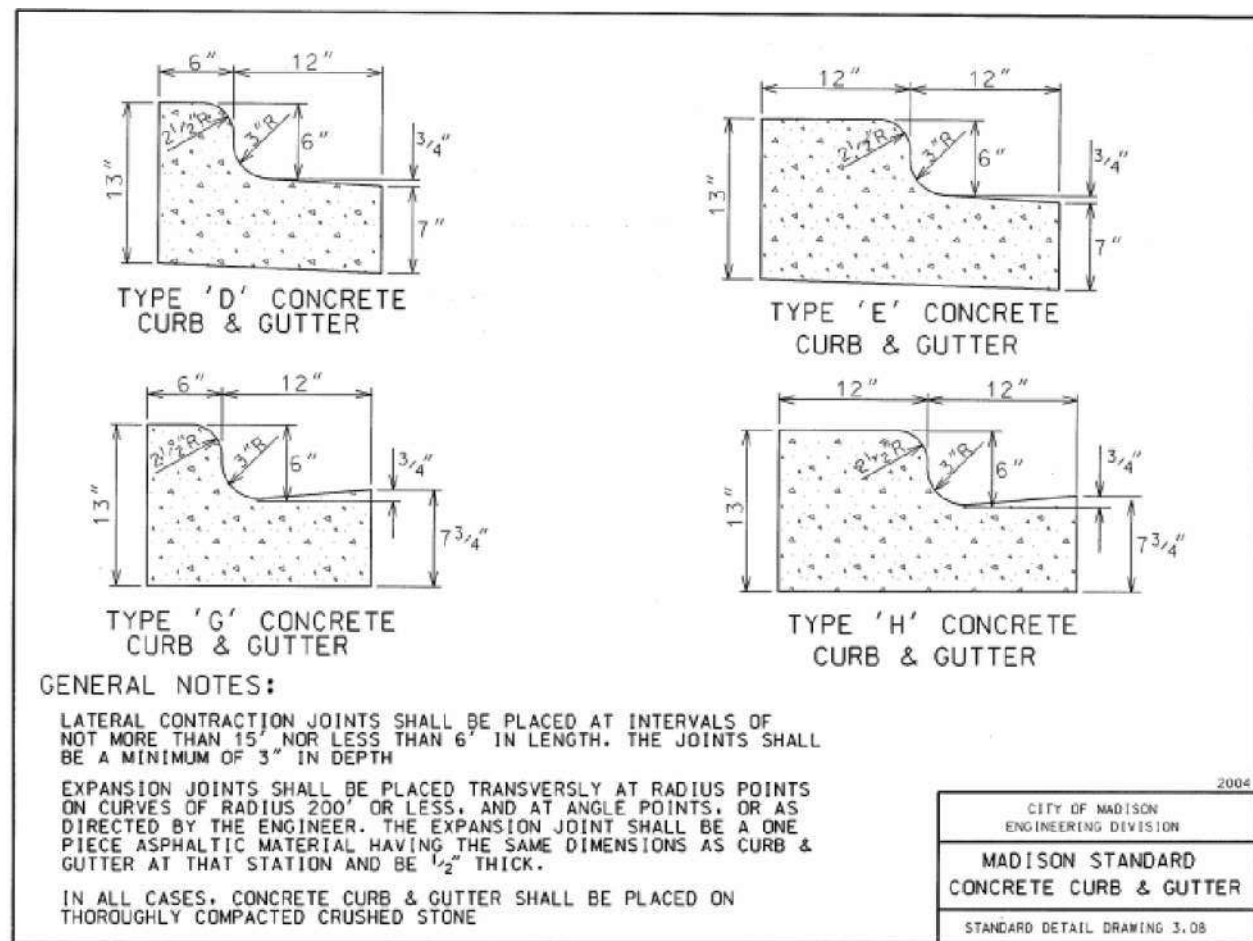
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2801 International Lane, Suite 101
Madison, WI 53704
Phone: 608-250-9263
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e-mail: MBurse@BSE-INC.net
www.bursesurveyengr.com

RYAN FUNERAL HOME OF MADISON
MCKEE ROAD
MADISON, WI

RYAN FUNERAL HOME OF MADISON
2418 SHERMAN AVENUE
MADISON, WI 53704

PROJECT #: BSE2508
PLOT DATE: 09/29/2023

REVISION DATES:

DATE	DESCRIPTION
5/11/2023	
6/21/2023	
7/17/2023	
9/11/2023	
09/29/2023	

ISSUE DATES:

DATE	DESCRIPTION
4/19/2023	
5/11/2023	
6/21/2023	
7/17/2023	
9/11/2023	
09/29/2023	

UDC/PC Submittal

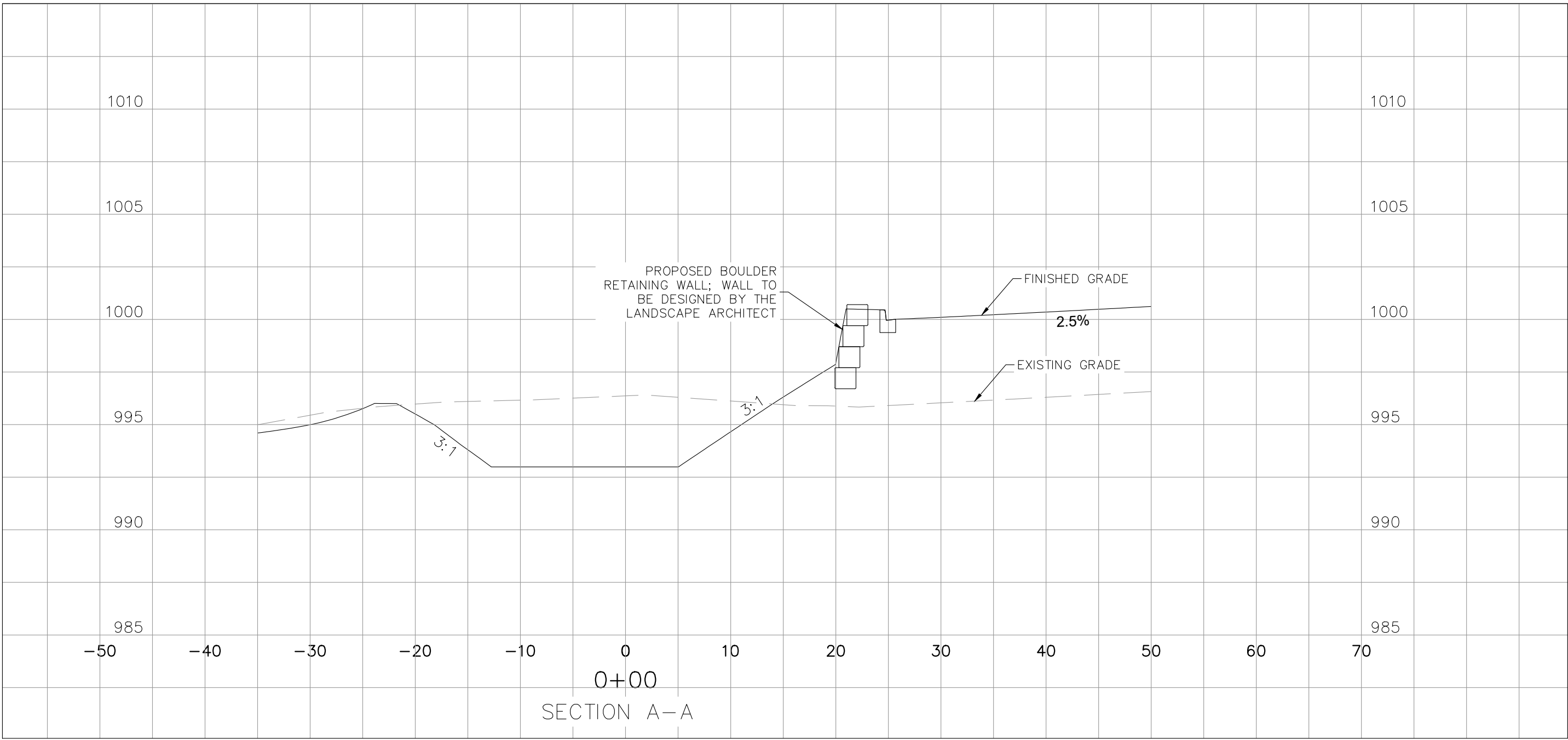
DATE	DESCRIPTION
9/11/2023	
09/29/2023	

CIVIL DETAILS

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www.bursesurveyengr.com



APPROVALS	PROJECT ENG.	MLB	DESIGNED BY	MLB	DRH	CHECKED BY	PDF	MLB

RYAN FUNERAL HOME OF MADISON

MCKEE ROAD
MADISON, WI

RYAN FUNERAL HOME OF MADISON

2418 SHERMAN AVENUE
MADISON, WI 53704

PROJECT #: BSE2508
PLOT DATE: 09/29/2023
REVISION DATES:
5/11/2023
6/21/2023
7/17/2023
9/11/2023
09/29/2023

ISSUE DATES:
4/19/2023
5/11/2023
6/21/2023
UDC/PC Submittal 7/17/2023
9/11/2023
09/29/2023

CIVIL DETAILS
SECTION A-A

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www.bursesurveyengr.com

APPROVALS	PROJECT ENG.	MLB	DESIGNED BY	DRH	TRAINING	DPH	CHECKED BY	PDF	APPROVED	MLB

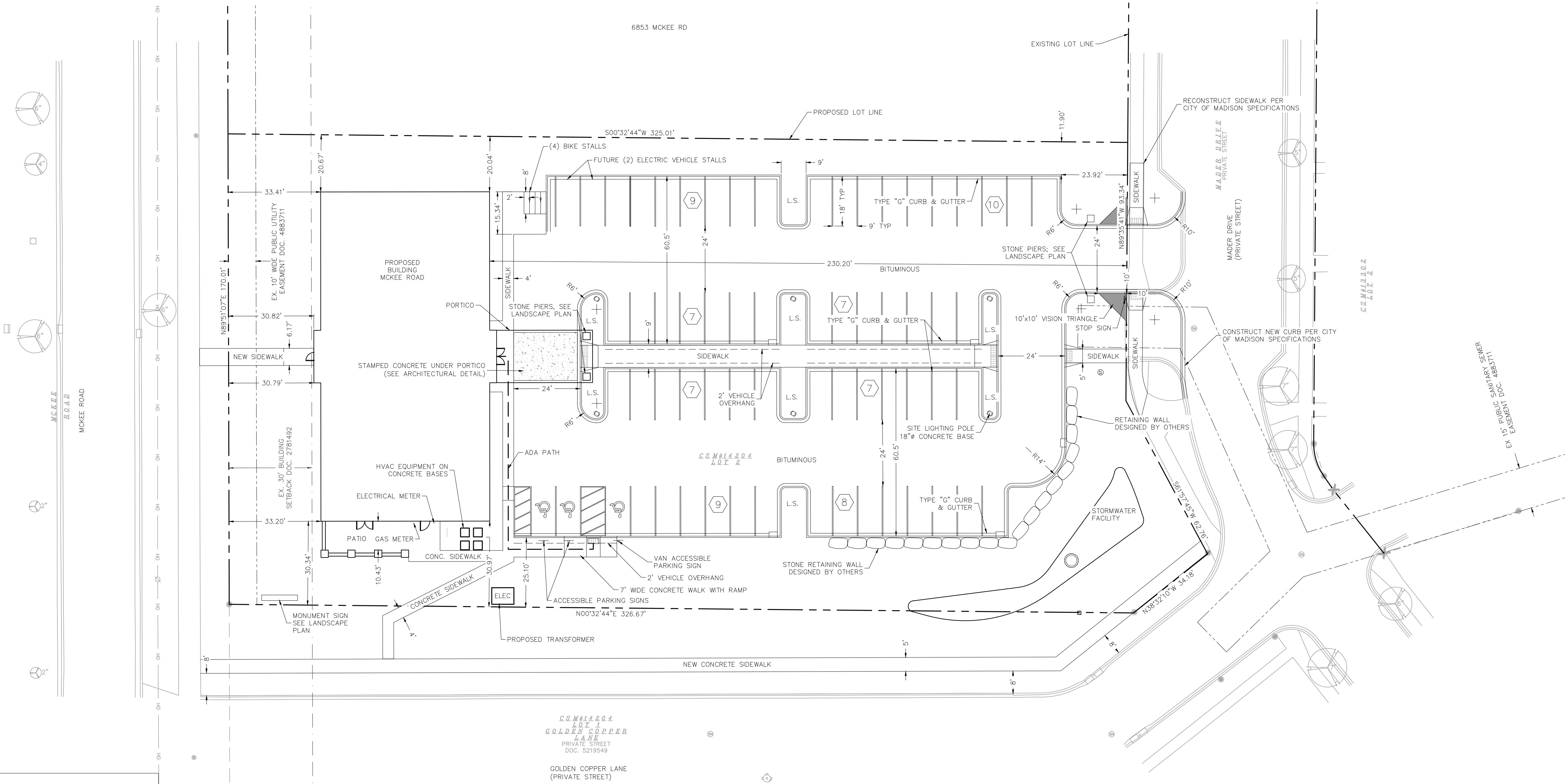
RYAN FUNERAL HOME OF MADISON
MCKEE ROAD
MADISON, WI
RYAN FUNERAL HOME OF MADISON
2418 SHERMAN AVENUE
MADISON, WI 53704

PROJECT #: BSE2508
PLOT DATE: 09/29/2023
REVISION DATES:
5/11/2023
6/21/2023
7/17/2023
9/11/2023
09/29/2023

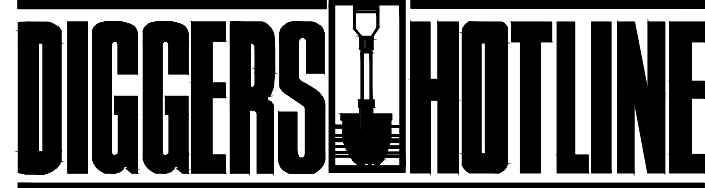
ISSUE DATES:
4/19/2023
5/11/2023
6/21/2023
7/17/2023
9/11/2023
09/29/2023

CIVIL SITE PLAN
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DRAWING NUMBER
C-400

- GENERAL NOTES:
1. THE RIGHT-OF-WAY OF MCKEE ROAD IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF THE CITY.
 2. ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED.
 3. PARKING STALLS = 62 REGULAR STALLS
2 ACCESSIBLE STALLS
64 TOTAL PARKING STALLS
4 BIKE STALLS
 4. CURRENTLY ZONED PD (PLANNED DEVELOPMENT DISTRICT)
 5. PROPOSED IMPERVIOUS AREA = 34,449 SF
 6. PROPOSED LOT AREA = 56,293 SF
 7. PROPOSED ISR = 61.2%



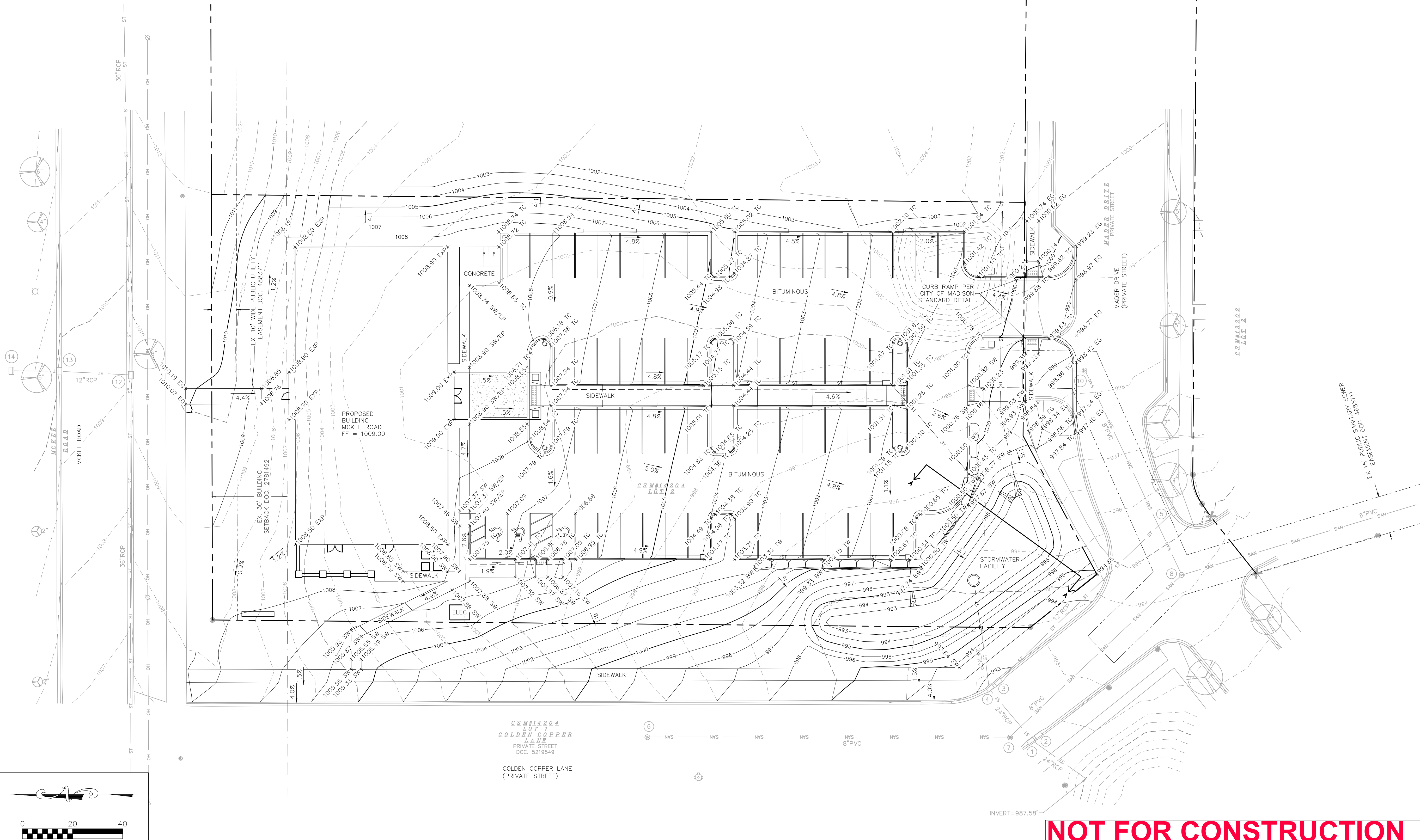
NOT FOR CONSTRUCTION



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www.DiggersHotline.com

GENERAL NOTES:

1. THE RIGHT-OF-WAY OF MCKEE ROAD IS THE SOLE JURISDICTION OF THE CITY OF MADISON AND IS SUBJECT TO CHANGE AT ANY TIME PER THE RECOMMENDATION/PLAN OF THE CITY.



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Fax: 608-250-9266
e-mail: Mburse@BSE-INC.net
www.bursesurveyengr.com

APPROVALS	PROJECT ENG.	MLB	DESIGNED BY	DPH	DRAWN	DPH	CHECKED BY	PDF	APPROVED	MLB

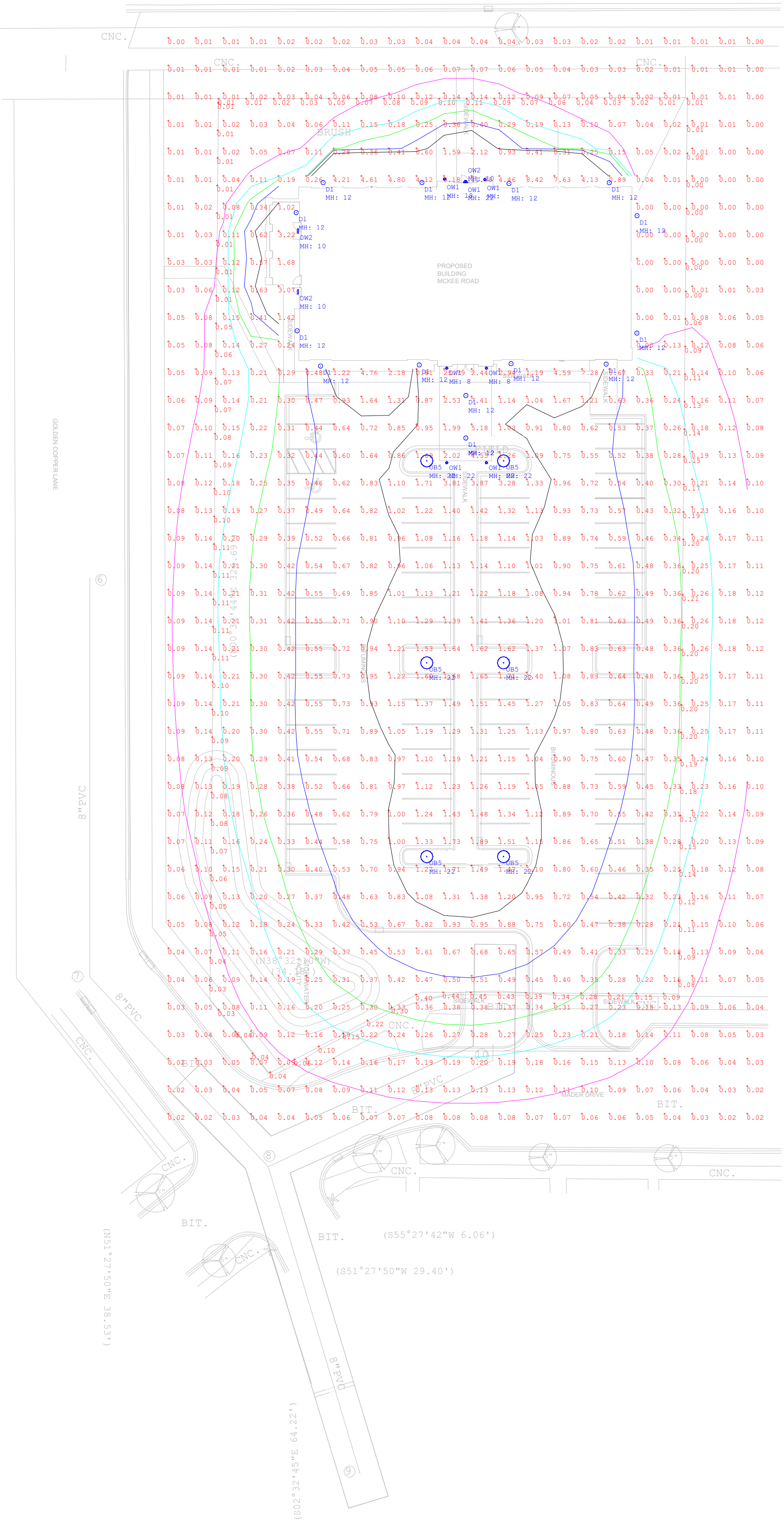
RYAN FUNERAL HOME OF MADISON
MCKEE ROAD
MADISON, WI
RYAN FUNERAL HOME OF MADISON
2418 SHERMAN AVENUE
MADISON, WI 53704

PROJECT #:	BSE2508
PLOT DATE:	09/29/2023
REVISION DATES:	
	5/11/2023
	6/21/2023
	7/17/2023
	9/11/2023
	09/29/2023

ISSUE DATES:	
	4/19/2023
	5/11/2023
	6/21/2023
UDC/PC Submittal	7/17/2023
	9/11/2023
	09/29/2023

GRADING PLAN
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DRAWING NUMBER
C-500

(S64°37'34"E 43.21')
(S58°27'10"E 44.46')
(S55°27'42"E 64.22')



Luminaire Schedule					
Qty	Label	MFG	Description	LLF	Lum. Watts
14	D1	LITHONIA	LDN6 30/15 L08BR MVOLT (driver)	0.950	17.52
6	OB5	US ARCH	PAC18-PT2-PLED-VSQ-W-20LED-700mA-30K-UNV-(finish) + 18' POLE + 2' BASE	0.950	47
6	OW1	LA076	GL-6543-C-CC-R3-(finish)	1.080	28
3	OW2	LITHONIA	WPX0 LED ALO SSW2 MVOLT PE DDBXD (level 3)	0.950	9.2
					Total Watts
					35.04
					188
					168
					46

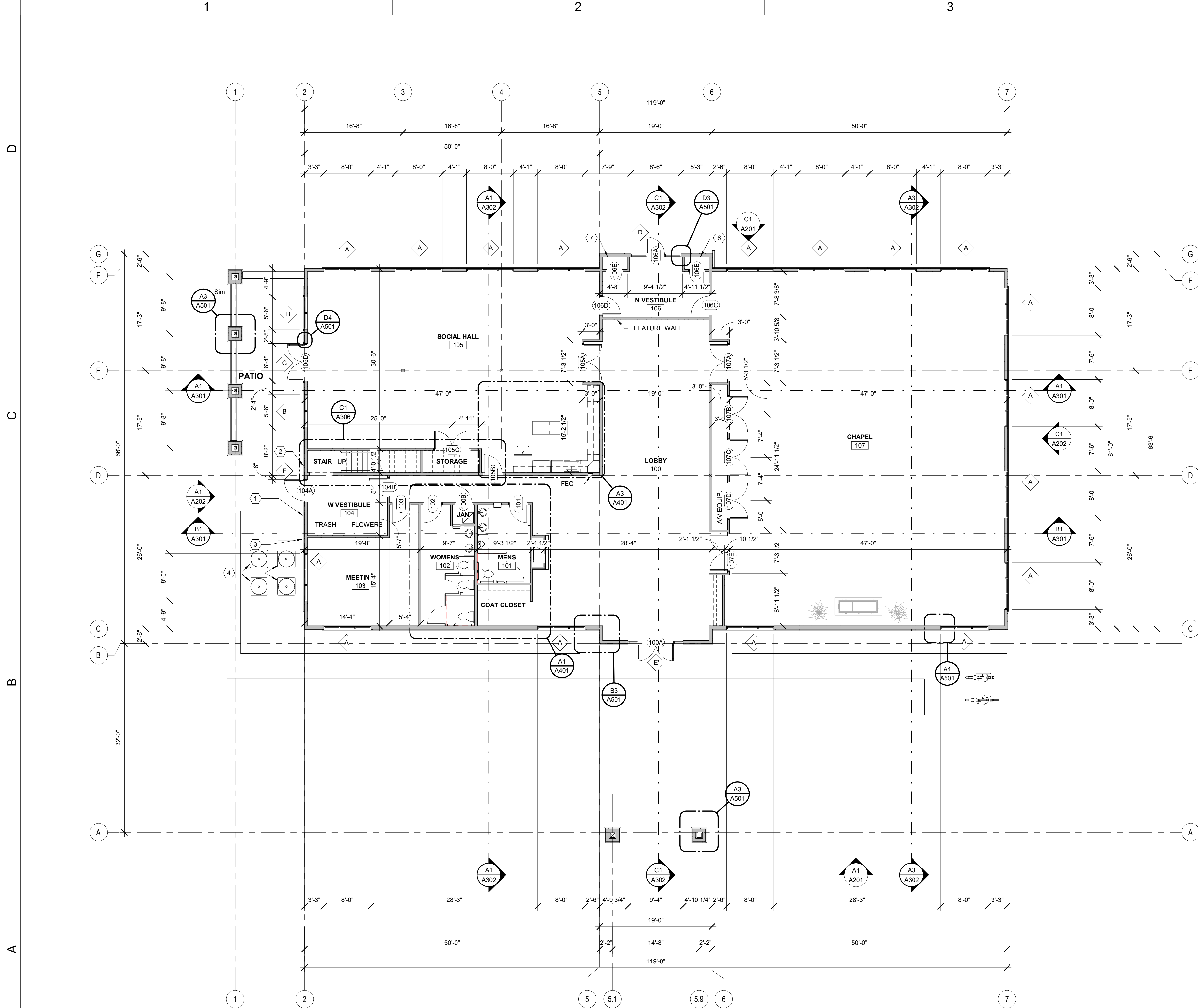
Calculation Summary						
Label	Units	Avg	Max	Min	Max/Min	Avg/Min
Presumed Property Line @ 4FT	Fc	0.11	0.45	0.00	N.A.	N.A.
Parking Lot	Fc	1.04	7.4	0.3	24.67	3.47



#		DATE	COMMENTS
		2023.10.02	UDC SUBMITTAL
REVISIONS			

DRAWN BY : JT	
DATE : 9-25-2023	
SCALE : 1" = 30'	

RYAN FUNERAL HOMES	
MADISON, WI	
SITE LIGHTING LAYOUT	



A1 FIRST FLOOR PLAN
1/8" = 1'-0" (REFERENCE: A1 / A201)

GENERAL PLAN NOTES:

- A. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION IMPROVEMENTS TO BE DESIGN BUILD, UNLESS NOTED OTHERWISE. DESIGNED AS REQUIRED BY CURRENT BUILDING CODES. MEP DESIGN BUILD CONTRACTOR(S) RESPONSIBLE FOR ENSURING CODE COMPLIANT CONSTRUCTION OF NEW SYSTEMS IN TENANT SPACES.
- B. PROVIDE SOUND INSULATION IN ALL DEMISING WALLS AND INTERIOR WALLS, UNLESS NOTED OTHERWISE.
- C. ALL INTERIOR WALLS TO BE **W4A** UNLESS NOTED OTHERWISE.
- D. PROVIDE MOISTURE RESISTANT GWB AT ALL PLUMBING WALLS.
- E. PROVIDE ACCESSIBLE TOILET ROOM FIXTURES AND ACCESSORIES PER MOUNTING HEIGHTS INDICATED ON SHEET A001.
- F. PROVIDE 2x BLOCKING AT ALL GRAB BAR LOCATIONS PER ANSI A117.1 2009
- G. PROVIDE ADA APPROVED THRESHOLDS AT ALL NEW FLOOR TRANSITIONS AND DOORWAYS.
- H. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL, UNLESS NOTED OTHERWISE. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- I. INTERIOR DIMENSIONS ARE TO FACE OF FRAME OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. ALL DIMENSIONS FROM EXISTING WALLS ARE FROM FINISH FACE UNLESS NOTED OTHERWISE.
- J. ALL DOORS WITH A CLOSE PROXIMITY OF A PERPENDICULAR WALL SHALL HAVE A TYPICAL DIMENSION OF 6" FROM FACE OF FRAME TO DOOR OPENING UNLESS NOTED OTHERWISE.
- K. CONTRACTOR SHALL NOTIFY ARCHITECT, ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED STRUCTURAL CONDITIONS OR DISCREPANCIES WITH PROPOSED MODIFICATIONS.
- L. FIRE EXTINGUISHER CABINETS SHALL BE RATED TO MEET THE ASSOCIATED WALL FIRE RATING.
- M. GENERAL CONTRACTOR TO SECURE CONSTRUCTION AREA DURING CONSTRUCTION WORK. SEAL ALL DOORS AS REQUIRED. CONSTRUCT AND MAINTAIN A FLOOR TO CEILING DUST BARRIER, TO PROVIDE SEPARATION FOR DUST, DEBRIS AND SOUND.
- N. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE TO MINIMIZE IMPACT ON EXISTING BUILDING OPERATIONS AND PLANNED EVENTS. CONSTRUCTION SPACE MUST BE CLEAN AND AVAILABLE FOR USE PERIODICALLY PER OWNERS REQUEST. VERIFY SCHEDULED EVENTS WITH OWNER PRIOR TO CONSTRUCTION START AND ARRANGE CONSTRUCTION SCHEDULE TO MEET OWNER'S NEEDS. COORDINATE SYSTEMS AND UTILITY SHUT DOWNS WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
- O. SUBMIT ALL FINISHES TO THE ARCHITECT FOR APPROVAL.

KEYNOTES:

- 1 ELECTRICAL PANEL
- 2 GAS METER
- 3 ELECTRICAL METERS
- 4 CONDENSERS
- 5 LOUVER
- 6 WATER METER ROOM
- 7 SPRINKLER RISER ROOM (TBD)
- 8 ACCESS HATCH TO ATTIC SPACE



RYAN FUNERAL HOMES

NEW CONSTRUCTION
6728 MADER DRIVE
MADISON, WI 53719

Project Status

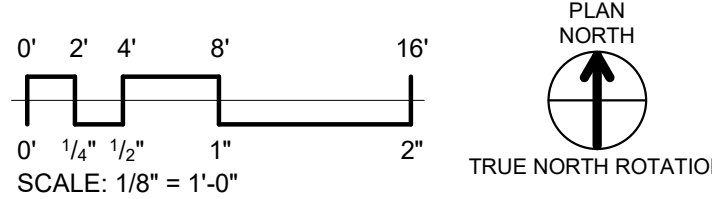
2023.09.28	CD REVIEW
2023.10.02	UDC SUBMITTAL

PROJ. #: 23026-01

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**FIRST FLOOR
PLAN**

A101



PRELIMINARY

GENERAL PLAN NOTES:

- A. MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION IMPROVEMENTS TO BE DESIGN BUILD, UNLESS NOTED OTHERWISE. DESIGNED AS REQUIRED BY CURRENT BUILDING CODES. MEP DESIGN BUILD CONTRACTOR(S) RESPONSIBLE FOR ENSURING CODE COMPLIANT CONSTRUCTION OF NEW SYSTEMS IN TENANT SPACES.
- B. PROVIDE SOUND INSULATION IN ALL DEMISING WALLS AND INTERIOR WALLS, UNLESS NOTED OTHERWISE.
- C. ALL INTERIOR WALLS TO BE W44 UNLESS NOTED OTHERWISE.
- D. PROVIDE MOISTURE RESISTANT GWB AT ALL PLUMBING WALLS.
- E. PROVIDE ACCESSIBLE TOILET ROOM FIXTURES AND ACCESSORIES PER MOUNTING HEIGHTS INDICATED ON SHEET A001.
- F. PROVIDE 2x BLOCKING AT ALL GRAB BAR LOCATIONS PER ANSI A117.1 2009
- G. PROVIDE ADA APPROVED THRESHOLDS AT ALL NEW FLOOR TRANSITIONS AND DOORWAYS.
- H. EXTERIOR DIMENSIONS ARE FROM GRIDLINE TO GRIDLINE, OR TO EDGE OF FOUNDATION WALL UNLESS NOTED OTHERWISE. PLEASE CONTACT ARCHITECT WITH ANY DISCREPANCIES.
- I. INTERIOR DIMENSIONS ARE TO FACE OF FRAME OR COLUMN CENTERLINE UNLESS NOTED OTHERWISE. ALL DIMENSIONS FROM EXISTING WALLS ARE FROM FINISH FACE UNLESS NOTED OTHERWISE.
- J. ALL DOORS WITH A CLOSE PROXIMITY OF A PERPENDICULAR WALL SHALL HAVE A TYPICAL DIMENSION OF 6" FROM FACE OF FRAME TO DOOR OPENING UNLESS NOTED OTHERWISE.
- K. CONTRACTOR SHALL NOTIFY ARCHITECT, ENGINEER AND OWNER IMMEDIATELY UPON DISCOVERING ANY UNANTICIPATED STRUCTURAL CONDITIONS OR DISCREPANCIES WITH PROPOSED MODIFICATIONS.
- L. FIRE EXTINGUISHER CABINETS SHALL BE RATED TO MEET THE ASSOCIATED WALL FIRE RATING.
- M. GENERAL CONTRACTOR TO SECURE CONSTRUCTION AREA DURING CONSTRUCTION WORK. SEAL ALL DOORS AS REQUIRED. CONSTRUCT AND MAINTAIN A FLOOR TO CEILING DUST BARRIER, TO PROVIDE SEPARATION FOR DUST, DEBRIS AND SOUND.
- N. GENERAL CONTRACTOR TO COORDINATE CONSTRUCTION SCHEDULE TO MINIMIZE IMPACT ON EXISTING BUILDING OPERATIONS AND PLANNED EVENTS. CONSTRUCTION SPACE MUST BE CLEAN AND AVAILABLE FOR USE PERIODICALLY PER OWNER REQUEST. VERIFY SCHEDULED EVENTS WITH OWNER PRIOR TO CONSTRUCTION START AND ARRANGE CONSTRUCTION SCHEDULE TO MEET OWNER'S NEEDS. COORDINATE SYSTEMS AND UTILITY SHUT DOWNS WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
- O. SUBMIT ALL FINISHES TO THE ARCHITECT FOR APPROVAL.

HATCH PATTERN KEY:



#KEYNOTES:

- 1 ELECTRICAL PANEL
- 2 GAS METER
- 3 ELECTRICAL METERS
- 4 CONDENSERS
- 5 LOUVER
- 6 WATER METER ROOM
- 7 SPRINKLER RISER ROOM (TBD)
- 8 ACCESS HATCH TO ATTIC SPACE

Sketchworks
architecture llc



RYAN FUNERAL HOMES

NEW CONSTRUCTION

**6728 MADER DRIVE
MADISON, WI 53719**

Project Status

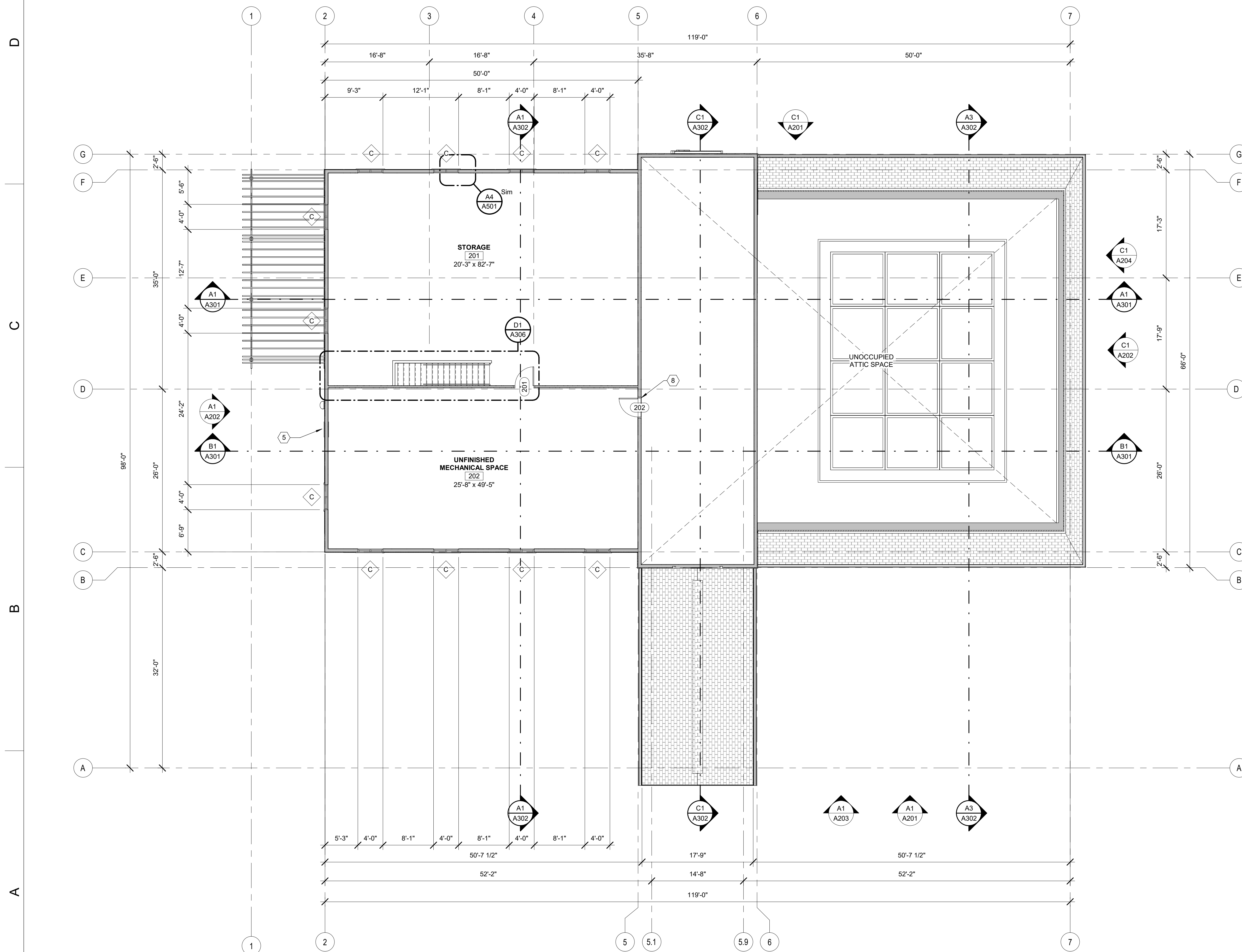
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PROJ. #:	23026-01
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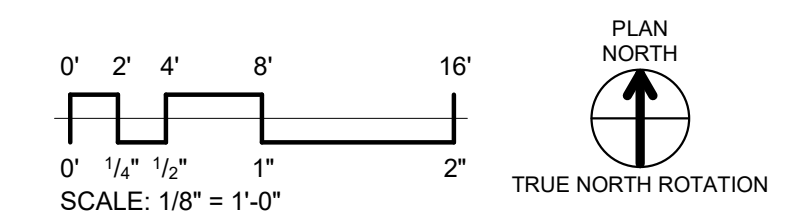
SECOND FLOOR PLAN

A102



A1 SECOND FLOOR

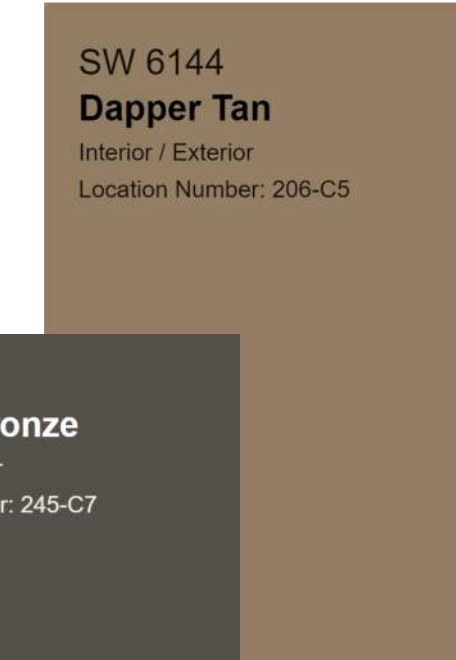
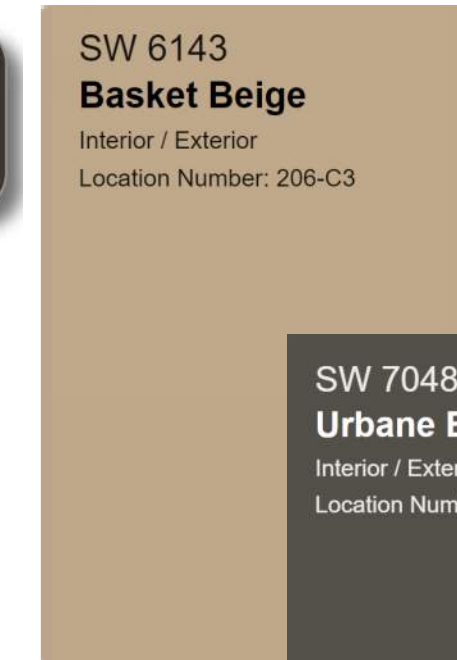
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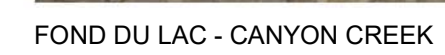
PRELIMINARY



EXTERIOR ELEVATIONS KEYNOTE SCHEDULE							
#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	STUCCO DARK	-	HAND LAID	SW 6144 DAPPER TAN			WINDOW TRIM TO MATCH SW 7048 URBAN BRONZE
2	STUCCO LIGHT	-	HAND LAID	SW 6143 BASKET BEIGE			WINDOW TRIM TO MATCH SW 7048 URBAN BRONZE
3	STONE VENEER	FOND DU LAC STONE	BUILTMORE COLLECTION	CANYON CREEK			
4	ASPHALT SHINGLES	OWENS CORNING	DURATION OR EQUAL	BLACK SABLE			
5	PREFINISHED ALUMINUM FACIA AND GUTTER	NORANDEX OR EQUAL	-	A29 CARBON			
6	PRECAST SILL	CUSTOM CAST STONE OR EQUAL	-	SIENNA	4" NOMINAL		
7	ALUMINUM STOREFRONT SYSTEM	KAWNEER OR EQUAL	451T	BLACK			
8	WOOD TIMBER TRIM	-	- CEDAR	- WALNUT STAIN			



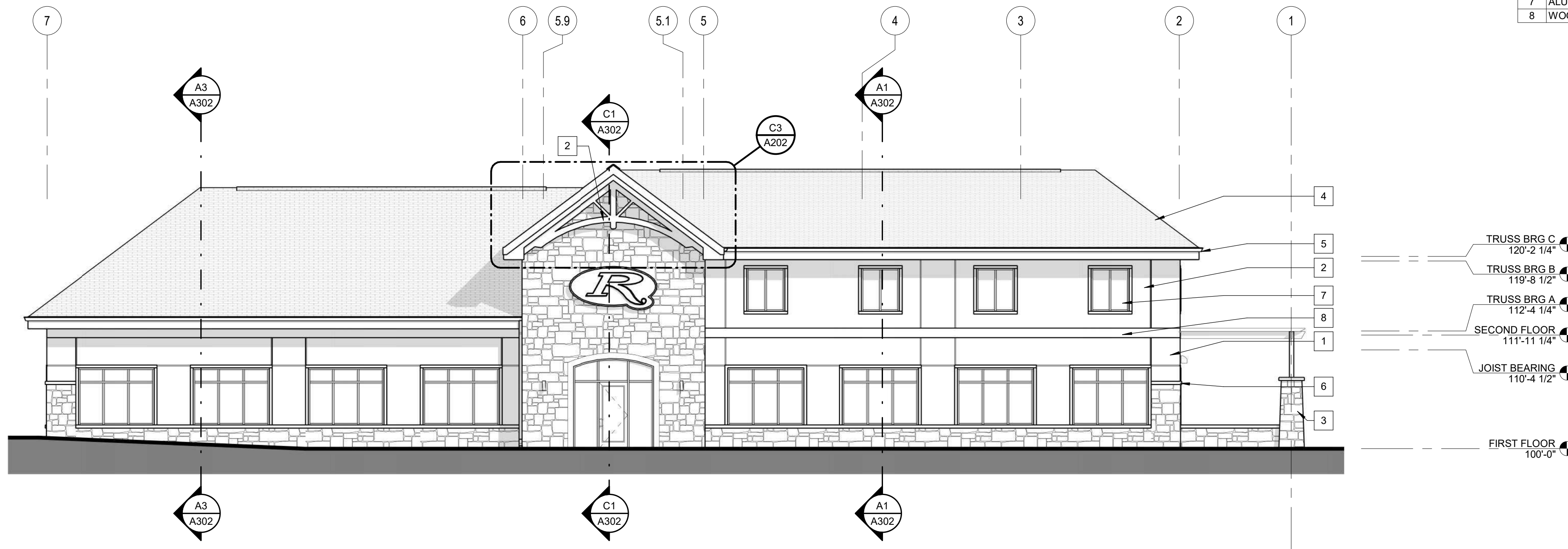
STUCCO TO MATCH: SW 6101 SANDS OF TIME, SW 6102 PORTABELLO



OWENS CORNING - DURATION DESIGNER - BLACK SABLE



EXTERIOR STAIN - WALNUT



C1 NORTH ELEVATION
1/8" = 1'-0" (REFERENCE: A1 / A101)



A1 SOUTH ELEVATION
1/8" = 1'-0" (REFERENCE: A1 / A101)

RYAN FUNERAL HOMES

NEW CONSTRUCTION

6728 MADER DRIVE

MADISON, WI 53719

Project Status

[illegible]

PROJ. #:	23026-01
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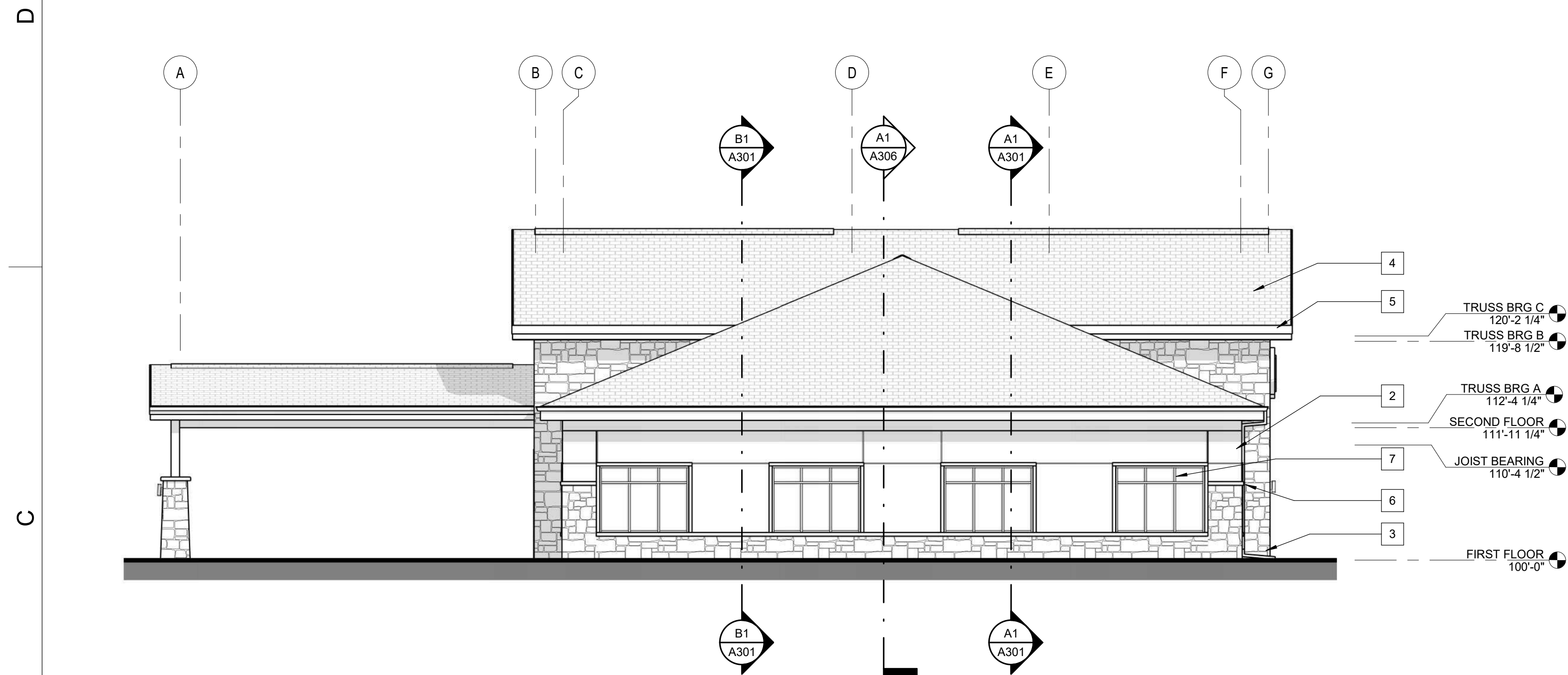
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EXTERIOR ELEVATIONS

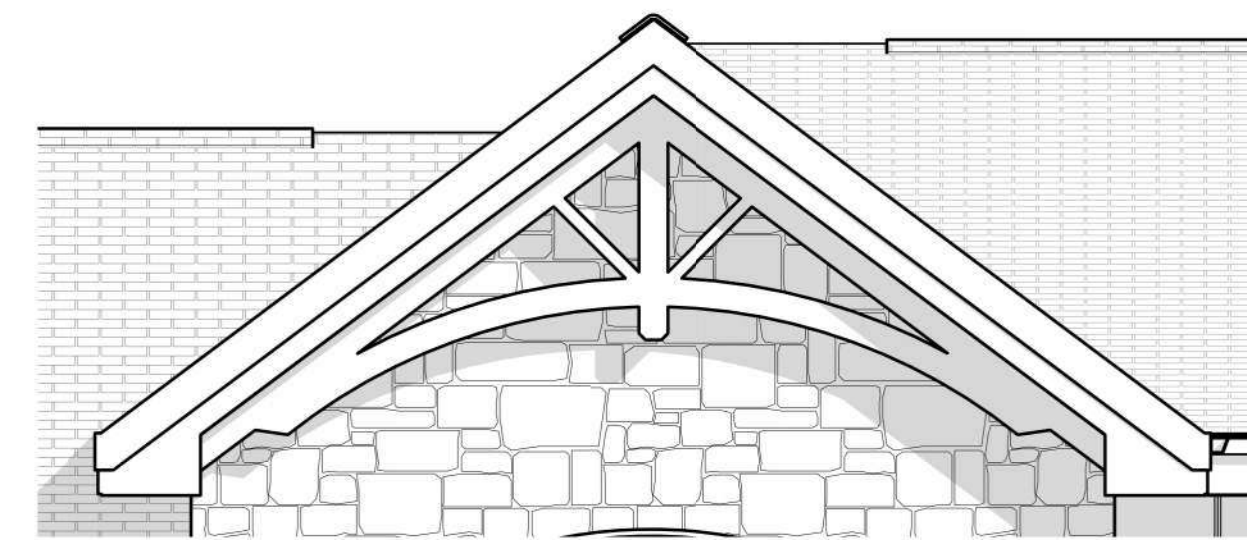
A201

PRELIMINARY

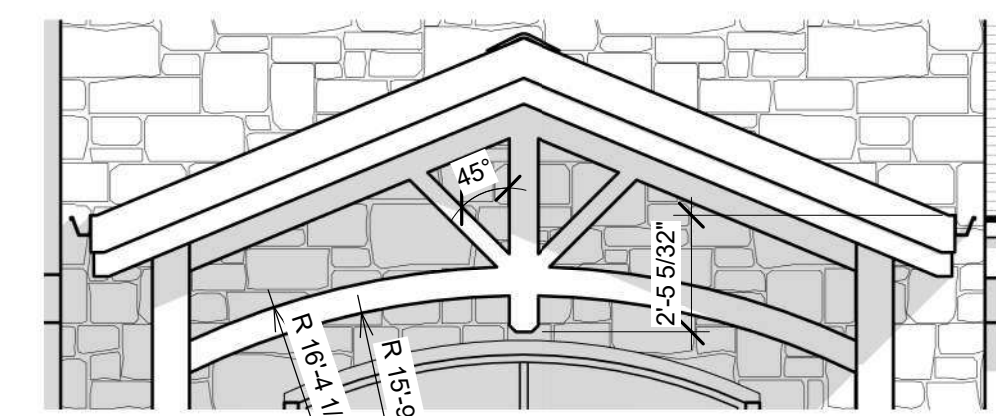
EXTERIOR ELEVATIONS KEYNOTE SCHEDULE							
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2	STUCCO LIGHT	-	HAND LAID	TO MATCH SW6101 SANDS OF TIME			
3	STONE VENEER	FOND DU LAC STONE	BUILTMORE COLLECTION	CANYON CREEK			
4	ASPHALT SHINGLES	OWENS CORNING	DURATION OR EQUAL	BLACK SABLE			
5	REFINISHED ALUMINUM FACIA AND GUTTER	NORANDEX OR EQUAL	-	D4/L1 LINEN			
6	PRECAST SILL	CUSTOM CAST STONE OR EQUAL	-	SIENNA	4" NOMINAL		
7	ALUMINUM STOREFRONT SYSTEM	KAWNEER OR EQUAL	451T	BLACK			
8	WOOD TIMBER TRIM	-	-	-			



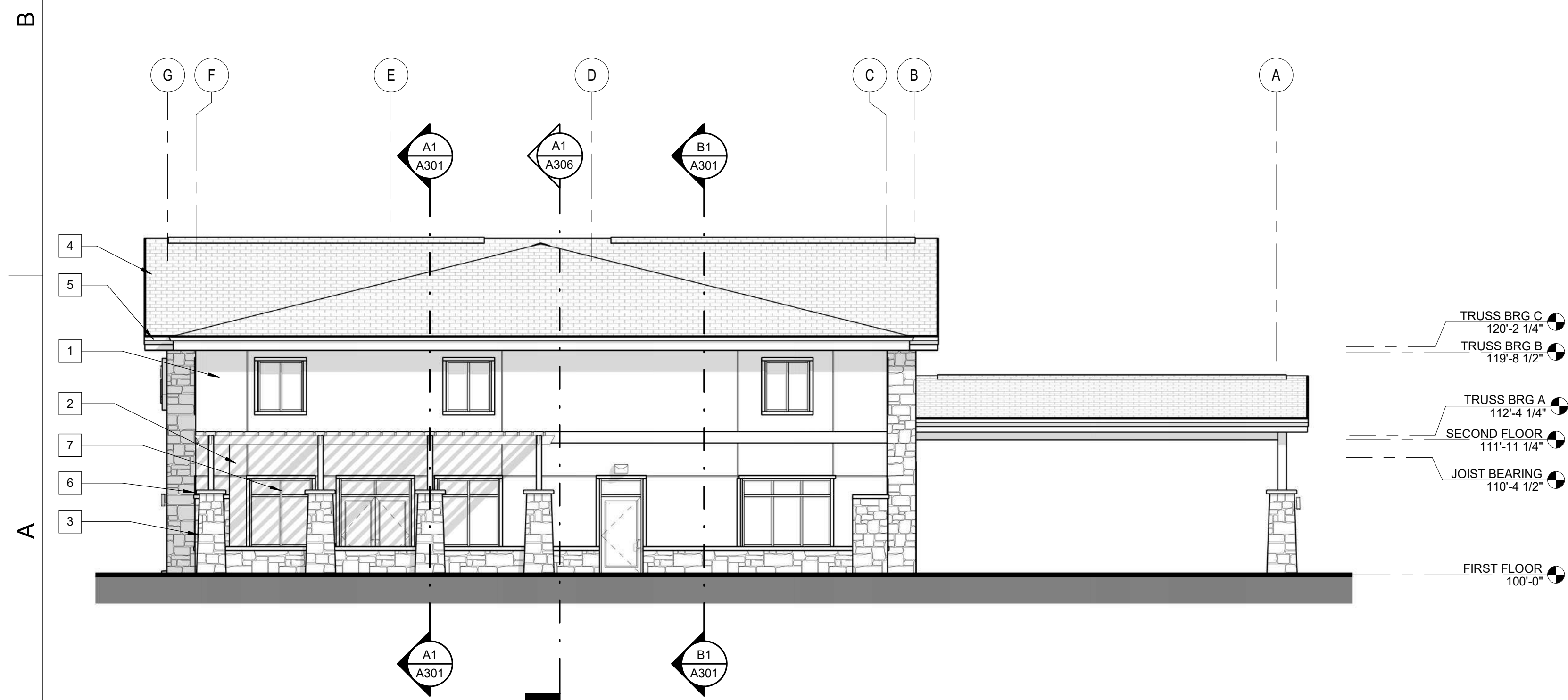
C1 EAST ELEVATION
1/8" = 1'-0" (REFERENCE: A1 / A101)



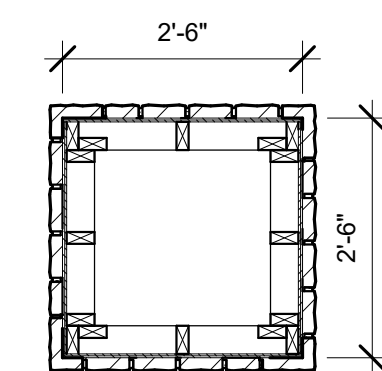
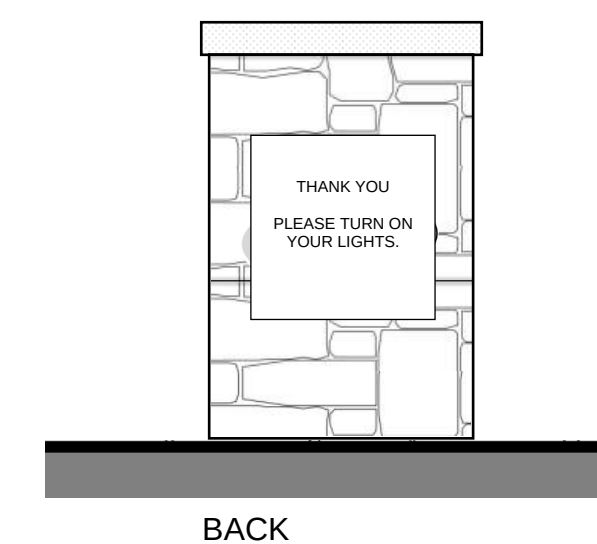
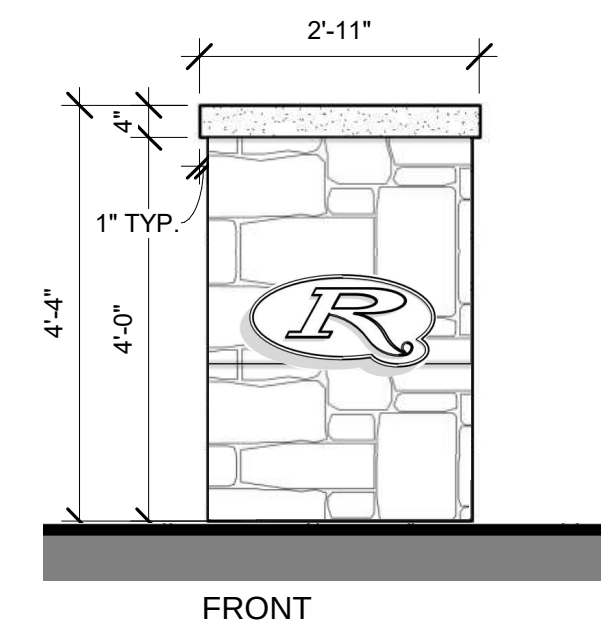
C3 ENLARGED GABLE TRUSS
1/4" = 1'-0" (REFERENCE: C1 / A201)



C4 ENLARGED PORTICO TRUSS
1/4" = 1'-0" (REFERENCE: A1 / A201)

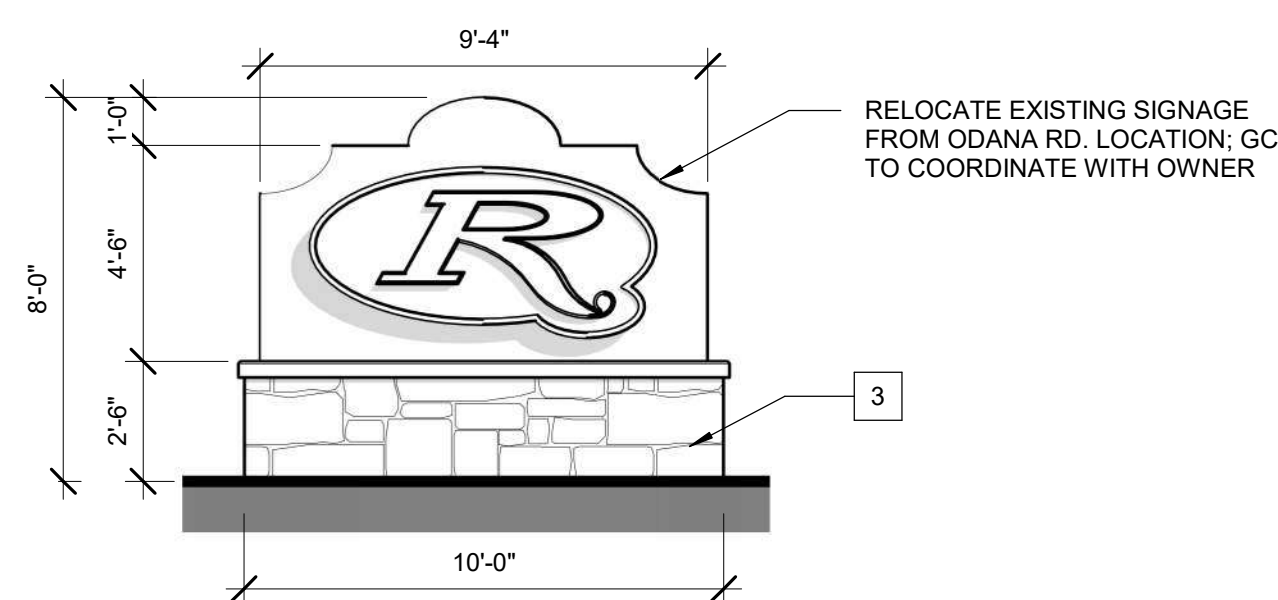


A1 WEST ELEVATION
1/8" = 1'-0" (REFERENCE: A1 / A101)

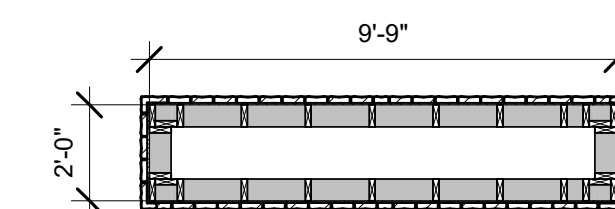


B3 POST SIGN
1/2" = 1'-0" (REFERENCE:

B4 POST SIGN
1/2" = 1'-0" (REFERENCE: A1 / A201)



A3 MONUMENT SIGN
1/4" = 1'-0" (REFERENCE: A1 / A102)



A4 MONUMENT SIGN BASE
1/4" = 1'-0" (REFERENCE: A1 / A201)

RYAN FUNERAL HOMES

NEW CONSTRUCTION

**6728 MADER DRIVE
MADISON, WI 53719**

Project Status

[illegible]

PROJ. #:	23026-01
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ARCHITECTURE 2022

EXTERIOR ELEVATIONS

A202

PRELIMINARY

D

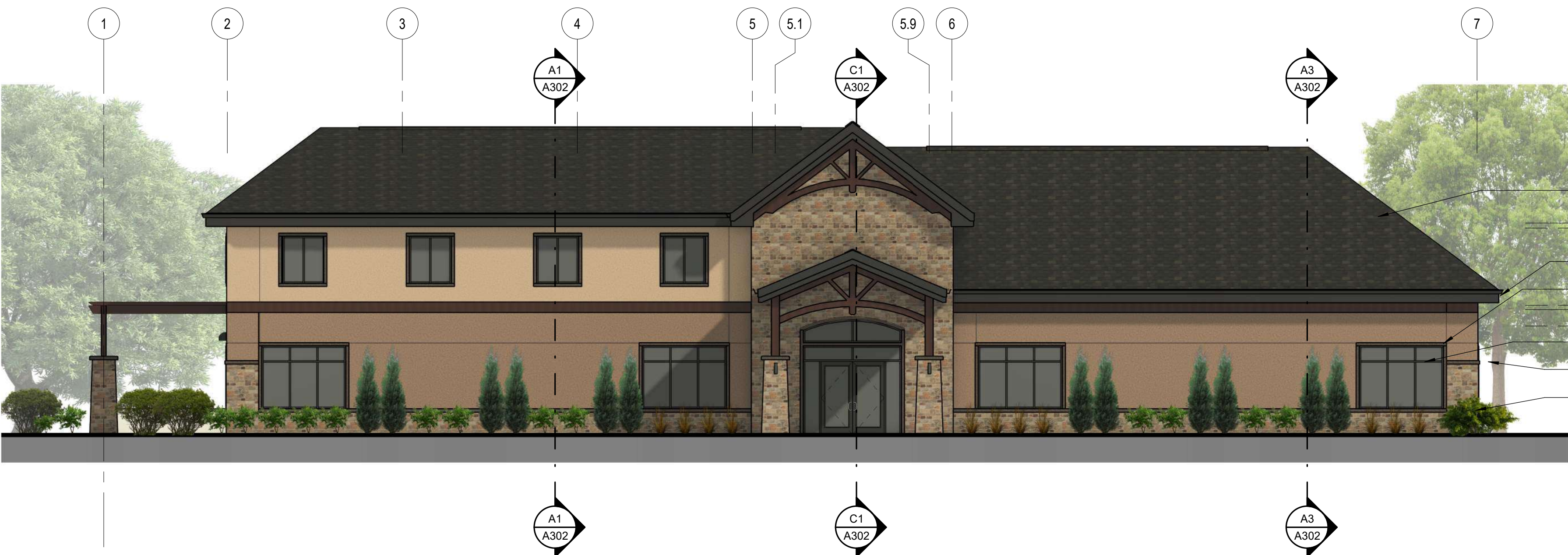
C

B

A

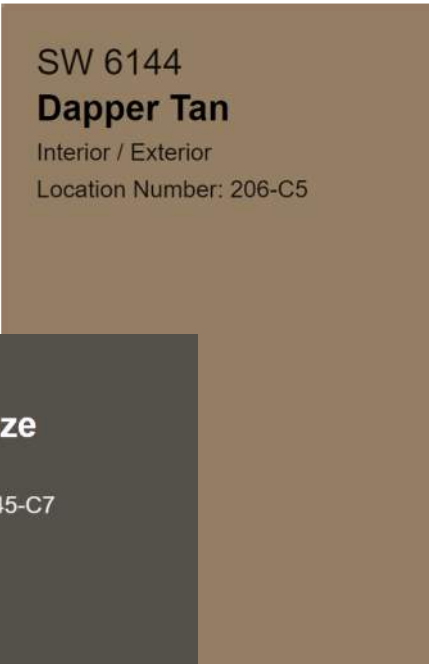
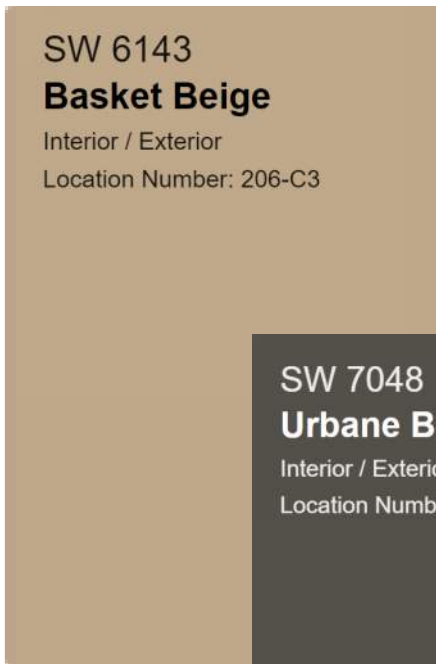


C1 NORTH ELEVATION COLOR
1/8" = 1'-0" (REFERENCE:



A1 SOUTH ELEVATION COLOR
1/8" = 1'-0" (REFERENCE: A1 / A102)

EXTERIOR ELEVATIONS KEYNOTE SCHEDULE							
#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	STUCCO DARK	-	HAND LAID	SW 6144 DAPPER TAN			WINDOW TRIM TO MATCH SW 7048 URBAN BRONZE
2	STUCCO LIGHT	-	HAND LAID	SW 6143 BASKET BEIGE			WINDOW TRIM TO MATCH SW 7048 URBAN BRONZE
3	STONE VENEER	FOND DU LAC STONE	BUILTMORE COLLECTION	CANYON CREEK			
4	ASPHALT SHINGLES	OWENS CORNING	DURATION OR EQUAL	BLACK SABLE			
5	PREFINISHED ALUMINUM FACIA AND GUTTER	NORANDEX OR EQUAL	-	A29 CARBON			
6	PRECAST SILL	CUSTOM CAST STONE OR EQUAL	-	SIENNA	4"	NOMINAL	
7	ALUMINUM STOREFRONT SYSTEM	KAWNEER OR EQUAL	451T	BLACK			
8	WOOD TIMBER TRIM	-	-CEDAR	- WALNUT STAIN			



STUCCO TO MATCH: SW 6101 SANDS OF TIME, SW 6102 PORTABELLO

FOND DU LAC - CANYON CREEK



OWENS CORNING - DURATION DESIGNER - BLACK SABLE



EXTERIOR STAIN - WALNUT

Sketchworks
architecture llc

ECHELON
STRUCTURES LLC

S
SNYDER
& ASSOCIATES

RYAN FUNERAL HOMES
NEW CONSTRUCTION
6728 MADER DRIVE
MADISON, WI 53719

Project Status

2023.09.28	CD REVIEW
2023.10.02	UDC SUBMITTAL

PROJ. #: 23026-01

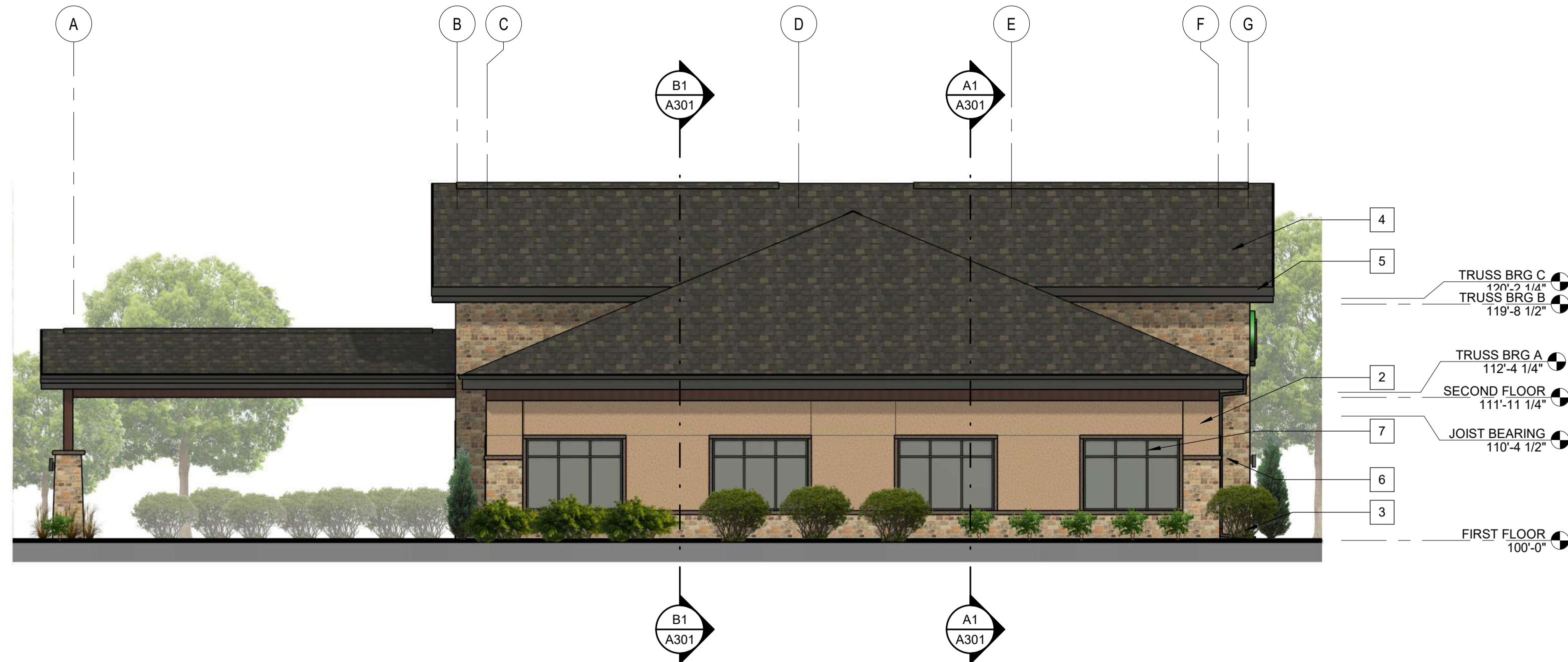
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EXTERIOR
ELEVATIONS
COLOR

A203

PRELIMINARY

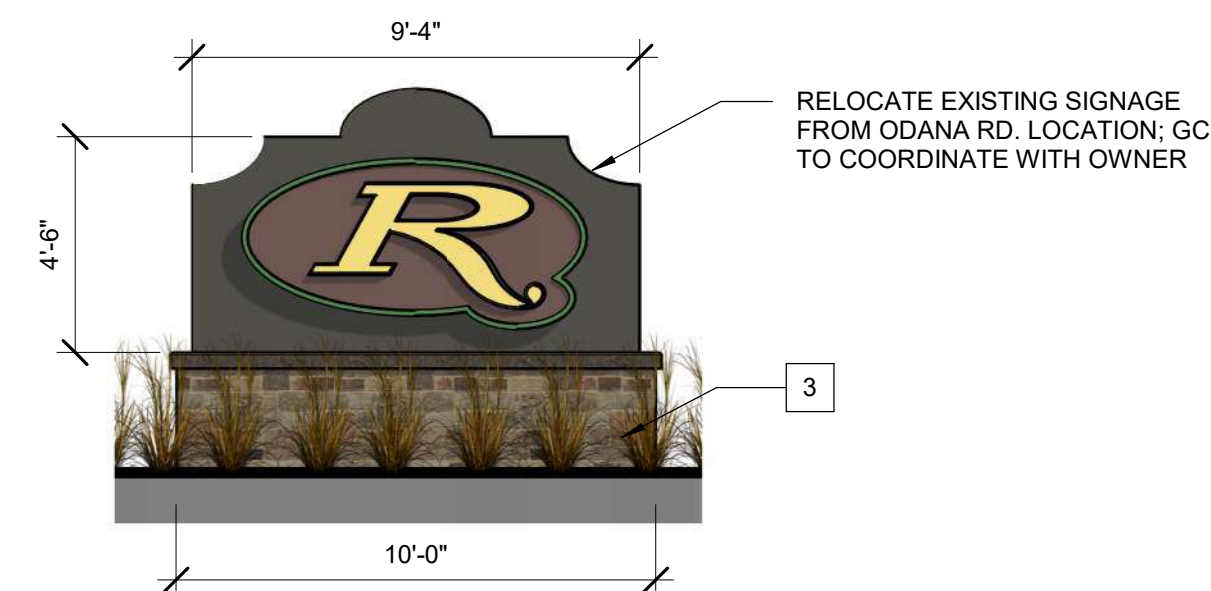
EXTERIOR ELEVATIONS KEYNOTE SCHEDULE							
#	DESCRIPTION	MANUFACTURER	TYPE/STYLE	COLOR	HEIGHT	WIDTH	COMMENTS
1	STUCCO DARK	-	HAND LAID	TO MATCH SW6102 PORTABELLO			
2	STUCCO LIGHT	-	HAND LAID	TO MATCH SW6101 SANDS OF TIME			
3	STONE VENEER	FOND DU LAC STONE	BUILTMORE COLLECTION	CANYON CREEK			
4	ASPHALT SHINGLES	OWENS CORNING	DURATION OR EQUAL	BLACK SABLE			
5	PREFINISHED ALUMINUM FACIA AND GUTTER	NORANDEX OR EQUAL	-	D4/L1 LINEN			
6	PRECAST SILL	CUSTOM CAST STONE OR EQUAL	-	SIENNA	4" NOMINAL		
7	ALUMINUM STOREFRONT SYSTEM	KAWNEER OR EQUAL	451T	BLACK			
8	WOOD TIMBER TRIM	-	-	-			



C1 EAST ELEVATION COLOR
1/8" = 1'-0" (REFERENCE: A1 / A102)



A1 WEST ELEVATION COLOR
1/8" = 1'-0" (REFERENCE:



A3 MONUMENT SIGN COLOR
1/4" = 1'-0" (REFERENCE: A1 / A102)

RYAN FUNERAL HOMES

NEW CONSTRUCTION

6728 MADER DRIVE

MADISON, WI 53719

Project Status

[illegible]

PROJ. #:	23026-01
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**EXTERIOR
ELEVATIONS
COLOR**

A204

PRELIMINARY

U



A



MCKEE ROAD - NORTH

RYAN FUNERAL HOMES

NEW CONSTRUCTION

**6728 MADER DRIVE
MADISON, WI 53719**

Project Status	
Project A	On Track
Project B	Delayed
Project C	On Track
Project D	On Track
Project E	On Track
Project F	On Track
Project G	On Track
Project H	On Track
Project I	On Track
Project J	On Track
Project K	On Track
Project L	On Track
Project M	On Track
Project N	On Track
Project O	On Track
Project P	On Track
Project Q	On Track
Project R	On Track
Project S	On Track
Project T	On Track
Project U	On Track
Project V	On Track
Project W	On Track
Project X	On Track
Project Y	On Track
Project Z	On Track

[illegible]

PROJ. #:

23026-01

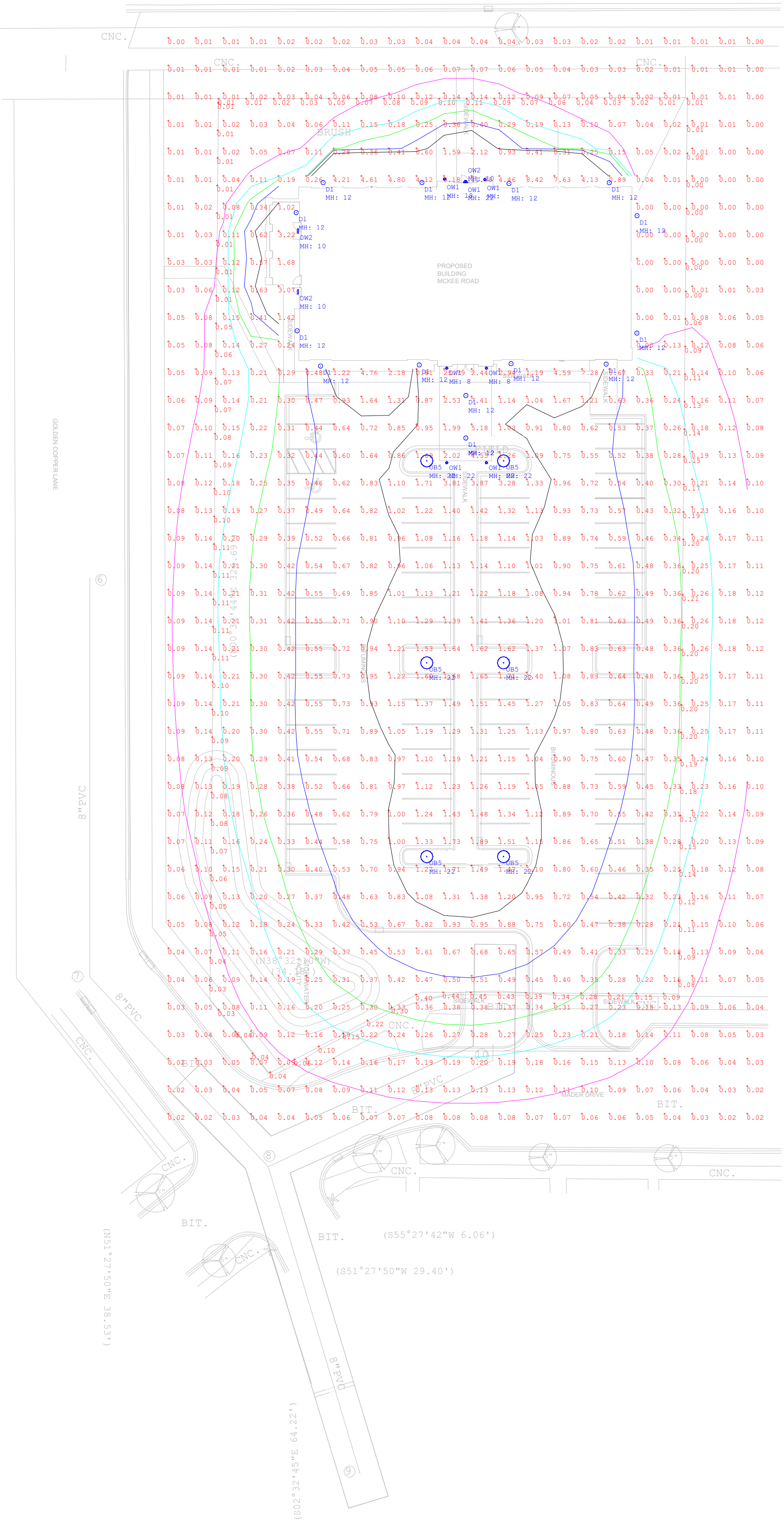
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EXTERIOR RENDERS

A901

PRELIMINARY

(S64°37'34"E 43.21')
(S58°32'10"E 44.46')
(S55°27'42"W 6.06')
(S51°27'50"W 29.40')
(S02°32'43"E 64.22')



Luminaire Schedule					
Qty	Label	MFG	Description	LLF	Lum. Watts
14	D1	LITHONIA	LDN6 30/15 L08BR MVOLT (driver)	0.950	17.52
6	OB5	US ARCH	PAC18-PT2-PLED-VSQ-W-20LED-700mA-30K-UNV-(finish) + 18\" POLE + 2\" BASE	0.950	47
6	OW1	LA076	GL-6543-C-CC-R3-(finish)	1.080	28
3	OW2	LITHONIA	WPX0 LED ALO SWW2 MVOLT PE DDBXD (level 3)	0.950	9.2
					Total Watts
					35.04
					188
					168
					46

Calculation Summary						
Label	Units	Avg	Max	Min	Max/Min	Avg/Min
Presumed Property Line @ 4FT	Fc	0.11	0.45	0.00	N.A.	N.A.
Parking Lot	Fc	1.04	7.4	0.3	24.67	3.47

RYAN FUNERAL HOMES

MADISON, WI

SITE LIGHTING LAYOUT

DRAWN BY : JT

DATE : 9-25-2023

SCALE : 1" = 30'

#	DATE	COMMENTS
REVISIONS		

ENTERPRISE

Lighting & Control



WPX0 LED Wall Pack



Catalog
Number

Notes

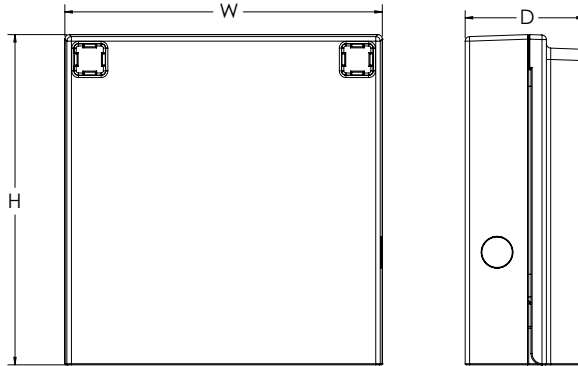
Type

OW-2

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

Specifications

Depth (D): 2"
Height (H): 5.75"
Width (W): 5.5"
Weight: 2.5lbs



Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in four sizes, the WPX family delivers 850 to 9,200 lumens with a wide, uniform distribution.

The WPX0 full cut-off wall pack is an excellent above the door lighting solution. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Standard features such as Adjustable Lumen Output (ALO), color switching and switchable photocell make WPX0 ideal for any application.

Ordering Information

EXAMPLE: WPX0 LED ALO SWW2 MVOLT PE DDBXD

Series	Color Temperature	Voltage	Controls	Finish
WPX0 LED ALO 850 - 1,650 Lumens	SWW2 3000K / 4000K / 5000K	MVOLT 120V - 277V	PE Photocell (On/Off)	DDBXD Dark bronze

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration.

NOTES:

Default out of the box settings: 1,650 Lumens, 4000K, Photocell enabled

FEATURES & SPECIFICATIONS

INTENDED USE

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX0, WPX1, WPX2 and WPX3 are ideal for replacing up to 70W, 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

CONSTRUCTION

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL

Light engine consist of high-efficacy LEDs and LED lumen maintenance of L86/100,000 hours. Color temperature (CCT) can be switched between 3000K, 4000K and 5000K with minimum CRI of 80. Electronic driver ensures system power factor >90% and THD <20%. The luminaire operates on MVOLT (120V - 277V) input.

A module inside the luminaire allows the installer to not only switch between CCTs, but also the adjust the lumen output and switch on and off the photocell (PE).

INSTALLATION

WPX can be mounted directly over a standard electrical junction box. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WPX0 LED
Rev. 10/31/22

Performance Data

Electrical Load

ALO Setting	Input Power (W)	120 V (A)	208 V (A)	240 V (A)	277 V (A)
ALO 4	13.0	0.11	0.06	0.05	0.05
ALO 3	9.2	0.08	0.04	0.04	0.03
ALO 2	7.8	0.07	0.04	0.03	0.03
ALO 1	6.4	0.05	0.03	0.03	0.02

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.93	>0.89	>0.86

Lumen Output

ALO Setting	Color Temperature	Lumen Output
ALO 4	3000K	1,591
	4000K	1,644
	5000K	1,667
ALO 3	3000K	1,164
	4000K	1,191
	5000K	1,225
ALO 2	3000K	974
	4000K	994
	5000K	1,025
ALO 1	3000K	814
	4000K	829
	5000K	859

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.027
5°C	41°F	1.023
10°C	50°F	1.018
15°C	59°F	1.012
20°C	68°F	1.006
25°C	77°F	1.000
30°C	86°F	0.993
35°C	95°F	0.986
40°C	104°F	0.979

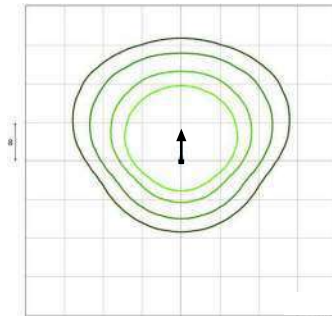
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting [WPX LED](#) homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

LEGEND

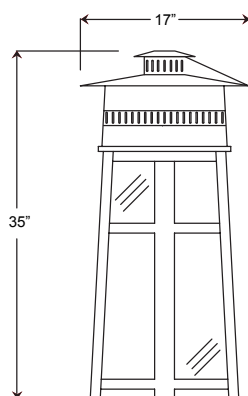
0.1 fc
0.2 fc
0.5 fc
1.0 fc

WPX0 LED ALO4



Switchable Features





Project: _____
 Fixture Type: _____ Quantity: _____
 Customer: **OW-1**

Specifications

Material:

All parts are durable 356 cast aluminum. All hardware provided shall be stainless steel or zinc plated steel.

Lens:

Choice of standard polycarbonate lens or no lens.

Fixture Mounting:

Pendant Mount: Pin mount to tenon. Fits 3" and 4" poles.

Drivers:

Universal voltage 120-277 is standard. 0-10V dimming is standard for LED platforms and 0-10V, TRIAC and ELV dimming to 1% protocols are standard for LED module.

See page 2 table for LED engine and driver specs, voltage and dimming protocols.



Illuminating
ENGINEERING SOCIETY

Electrical:

Approximately 12" of pull wire extends from luminaire. Additional pull wire provided for post mount arms and wall mounts.

Finish:

A polyester powder coat high quality finish is electro-statically applied and baked at 430° for exceptional durability and color retention. Products undergo an intensive five-step cleansing and pretreatment process for maximum paint adhesion.

Marine grade finish provides superior salt, humidity and UV protection. This coating withstands up to 3000 hours of continuous salt spray, comes with a 5-year warranty and is available in either a textured or gloss surface.

Modifications:

Consult factory for custom or modified designs.

LA076 LED

Weight: 33.0 lbs

EPA: 2.4

Catalog Logic

LA076	3	CL	P046LD4	D	T5	40K	- PC	- PA5651	- 72
Luminaire Series	Pendant or Post Mount	Lens	Light Source & Wattage	Dimming	Optics	CCT	Accessories	Mounting Source	Finish

Catalog Number	1	2	3	4	5	6	7	8	9
LA076	3			D					

1	FIXTURE ORIENTATION
3 Pendant	

2	LENS
NL	(No Lens)
CL	(Clear Polycarbonate)
FR	(Frosted Polycarbonate)
PR	(Prismatic Polycarbonate)
SE	(Seeded Acrylic)
WH	(White Opal Polycarbonate)

3	LIGHT SOURCE & WATTAGES
P029LD4	(29 w Platform; 400ma Driver)
P046LD4	(46w Platform; 400ma Driver)
P078LD4	(78w Platform; 400ma Driver)
M016LD	(16w, 2000 lumen, Cree module)
M024LD	(24w, 3000 lumen, Cree module)
M037LD	(37w, 4000 lumen, Cree module)

4	DIMMING
D (Dimming)	
See page 2 table for LED engine and driver specs, voltage and dimming protocols.	

5	OPTICS
Platform	Module
T2 (Type II)	W (T5 Wide Distributor with Dome LED Lens)
T3 (Type III)	N (T5 Narrow Distributor with Flat LED Lens)
T5 (Type V)	

6	COLOR TEMPERATURE (CCT)
Platform	Module
27K (2700K)	27K (2700K)
30K (3000K)	30K (3000K)
35K (3500K)	35K (3500K)
40K (4000K)	40K (4000K)

7	ACCESSORIES
CHC (Clear Glass Chimney)	
CHF (Frosted Glass Chimney)	
HSS90 (90° House Side Shield, polished)	
HSS120 (120° House Side Shield, polished)	
4ST36 (3 Ft, 1 1/4" Ridged Stem & Canopy)	
PEND-CH3 (3 Ft Pendant Chain & Canopy)	
*EMG-LED5 (5w, LED Emergency Driver, remote placement, Cree module only)	
*EMG-LED7 (7w, LED Emergency Driver, remote placement, Cree module only)	
*EMG-LED10 (10w, LED Emergency Driver, remote placement, Cree module only)	
*EMG-LED20HV (20w, High Voltage LED Emergency Driver, remote placement, for use with Platforms and Towers, 78w or less)	
HLMSPC-06 (High-Low Motion Sensor/Photocell; 15' - 30' Sensor Mounting Height)	
HLMSPC-10 (High-Low Motion Sensor/Photocell; 8' - 15' Sensor Mounting Height)	
PC (Button Photo Cell)	
SP (Surge Protector, 10kA & 10kV)	
TLPC (Twist Lock photo cell & receptacle)	
TL (Twist Lock receptacle only)	
TL5 (5-pin Twist Lock receptacle)	
TL7 (7-pin Twist Lock receptacle)	
*For Emergency lumen output data, see Resources section at www.ANPlighting.com .	

8	MOUNTING SOURCE
Post Mount Arms *See Page 3 for Style/Size	Wall Mount Arms *See Page 3 for Style/Size
PA1613	PA8523
PA1753	PA8453
PA2023	WM0413
PA2613	WM1613
PA3213	WM1763
PA5413	WM3003
PA6213	WM3203
PA7913	WM3553
PA8033	WM4513
PA8443	WM5133
	WM5163
	WM5603
Column Mount *See Page 3 for Style/Size	
CM Column Mount	

9

FINISHES

Standard Grade	Marine Grade		Standard Grade	Marine Grade	
40	NA	Raw Unfinished	53	100	Copper Clay
41	101	Black	56	109	Silver
42	102	Forest Green	61	106	Black Verde
43	114	Bright Red	70	118	Painted Chrome
44	107	White	71	105	Painted Copper
45	112	Bright Blue	72	108	Textured Black
46	123	Sunny Yellow	73	125	Matte Black
47	120	Aqua Green	76	121	Textured Architectural Bronze
49	NA	Galvanized	77	127	Textured White
50	111	Navy	78	124	Textured Silver
51	103	Architectural Bronze	10	130	Aspen Green
52	104	Patina Verde	11	131	Cantaloupe
12	133	Lilac	13	132	Putty

Consult factory for additional paint charges and availability

Project: _____

Fixture Type: _____ Quantity: _____

Customer: _____

LED PERFORMANCE

MODULE				
LED Wattage	CCT	Typical Luminous Flux	System Wattage	Typical Efficacy
16W	2700K	2000	19W	125
	3000K	2000	19W	125
	3500K	2000	19W	125
	4000K	2000	19W	125
24W	2700K	3000	28W	125
	3000K	3000	28W	125
	3500K	3000	28W	125
	4000K	3000	28W	125
37W	2700K	4000	43W	108
	3000K	4000	43W	108
	3500K	4000	43W	108
	4000K	4000	43W	108

PLATFORM				
LED Wattage	CCT	Typical Luminous Flux	System Wattage	Typical Efficacy
29W	2700K	2670	30w	89
	3000K	2670	30w	89
	3500K	3209	30w	107
	4000K	3465	30w	116
46W	2700K	4004	46w	87
	3000K	4004	46w	87
	3500K	4814	46w	105
	4000K	5197	46w	115
78W	2700K	7041	80w	88
	3000K	7041	80w	88
	3500K	8464	80w	106
	4000K	9138	80w	114

MODULE SPECIFICATION

- Efficacy 65-125 lumens per watt
- Life: L70 50,000 hours
- Color temp: 2700K,3000K,3500K and 4000K
- CRI: >90

MODULE DRIVER SPECIFICATION

- Input Voltage: 120-277 Volts; 50/60Hz
- Dimmable down to 1%
- 0-10V, TRIAC and ELV dimming protocols are standard.
- Output Current: Constant Current: 440mA to 940mA (model dependent)
- Driver Efficiency > 80%; Power Factor > 0.9
- Integral Surge Protection in conformance to ANSI C62.41 Category A

MODULE LISTINGS

- Fully compliant with the RoHS Directive
- Certifications: CE/UL

PLATFORM SPECIFICATION:

- Efficacy ranges from 80-116 lumens per watt
- Customized lens precisely directs the light
- Operating temperature of -30C to 55C
- Life: L70 is 60,000 hours
- PLATFORM CCT: 2700K, 3000K,3500K, and 4000K
- TOWER CCT: 4000K
- CRI: >70
- Parallel circuitry ensures consistent light output in the event of single LED failure

PLATFORM DRIVER SPECIFICATION:

- Operates at 400mA
- Dimmable down to 10%
- Built in surge protection
- Constant current output 50/60HZ
- Driver Efficiency > 90% power factor above 99%
- 120 – 277 volts
- 0-10V dimming protocol is standard

PLATFORM LISTINGS

- Fully compliant with the RoHS Directive
- Certifications: ETL
- Rated IP65 with an optional IP66 rating

WARRANTY

See www.ANPlighting.com for complete fixture warranty.

- 5 year limited warranty on Modules/Drivers
- 7 year limited warranty* on Platform LED engines
- 5 year limited warranty* on Platform Drivers

*Limited Warranty: A typical year is defined as 4380 hours of operation. Failure defined as more than 10% of the total platform LED's not operating.

Project: _____
 Fixture Type: _____ Quantity: _____
 Customer: _____

POST MOUNTS - See Post Arm Section on Website for Specification Sheets and additional post arms.
 Dimensions are Projection x Height

COLUMN MOUNT



CM / 5 3/4" SQ x 3 1/2" H

WALL MOUNTS - See Wall Mount Section on Website for Specification Sheets and additional wall mount arms.
 Dimensions are Projection x Height.



ACCESSORIES



FEATURES & SPECIFICATIONS

INTENDED USE — Typical applications include corridors, lobbies, conference rooms and private offices.

CONSTRUCTION — Galvanized steel mounting/plaster frame; galvanized steel junction box with bottom-hinged access covers and spring latches. Reflectors are retained by torsion springs.

Vertically adjustable mounting brackets with commercial bar hangers provide 3-3/4" total adjustment.

Two combination 1/2"-3/4" and four 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out). No. 12 AWG conductors, rated for 90°C.

Accommodates 12"-24" joist spacing.

Passive cooling thermal management for 25°C standard; high ambient (40°C) option available. Light engine and drivers are accessible from above or below ceiling.

Max ceiling thickness 1-1/2".

OPTICS — LEDs are binned to a 3-step MacAdam Ellipse; 80 CRI minimum. 90 CRI optional.

LED light source concealed with diffusing optical lens.

General illumination lighting with 1.0 S/MH and 55° cutoff to source and source image.

Self-flanged anodized reflectors in specular, semi-specular, or matte diffuse finishes. Also available in white and black painted reflectors.

A+ CAPABLE LUMINAIRE — This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning when used with Acuity Brands controls products. All configurations of this luminaire are calibrated and tested to meet the Acuity Brands' specifications for chromatic consistency – including color rendering, color fidelity and color temperature tolerance around standard CIE chromaticity coordinates. To learn more about A+ standards, specifications, and testing visit www.acuitybrands.com/aplus.

UGR — UGR is zero for fixtures aimed at nadir with a cut-off equal to or less than 60deg, per CIE 117-1996 Discomfort Glare in Interior Lighting.

ELECTRICAL — Multi-volt (120-277V, 50/60Hz) 0-10V dimming drivers mounted to junction box, 10% or 1% minimum dimming level available.

0-10V dimming fixture requires two (2) additional low-voltage wires to be pulled.

LUMEN MAINTENANCE — 70% lumen maintenance at 60,000 hours. L70/60,000 hours

LISTINGS — Certified to US and Canadian safety standards. Wet location standard (covered ceiling). IP55 rated. ENERGY STAR® certified product. Drivers are RoHS compliant

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

PERFORMANCE DATA

LDN6 3500K AR LSS 80CRI			
Nominal Lumens	Lumens	Wattage	Lm/W
500	527.9	5.8	90.5
750	758.1	8.9	85.1
1000	950.1	10.4	91.0
1500	1514	17.5	86.4
2000	2006	22.5	89.1
2500	2504	28.3	88.6
3000	3021	34.8	86.9
4000	4008	44.3	90.6
5000	4975	57.7	86.3

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.



Catalog Number	
Notes	
Type	D1

LDN6 STATIC WHITE



**6" Open and Wallwash LED
Non-IC
New Construction Downlight**

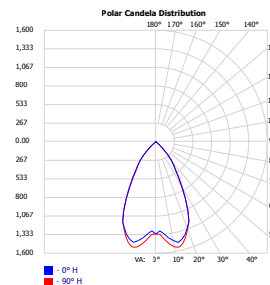


Open Trim

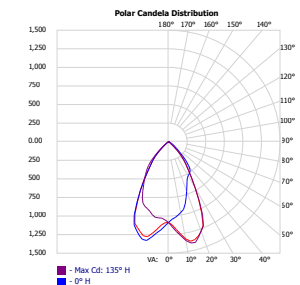


Wallwash Trim

DISTRIBUTIONS



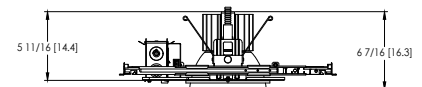
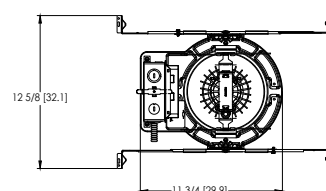
Open



Wallwash

DIMENSIONS

LDN6 500-3000 Lumens



Aperture: Ø 6-1/4" [15.9]
Ceiling Cutout: Ø 7-1/8" [18.1] Self-flanged
Overlap Trim: Ø 7-1/2" [19.1]

See page 4 for other fixture dimensions

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: LDN6 35/15 L06 AR LSS MVOLT EZ10

LDN6							
Series	Color temperature	Lumens ‡	Trim Style	Trim Color	Trim Finish	Flange Color ‡	Voltage
LDN6 6" round	27/ 2700K 30/ 3000K 35/ 3500K 40/ 4000K 50/ 5000K	05 500 lumens 07 750 lumens 10 1000 lumens 15 1500 lumens 20 2000 lumens 25 2500 lumens 30 3000 lumens 40 4000 lumens 50 5000 lumens	L06 Downlight LW6 Wallwash	AR Clear WR ‡ White BR ‡ Black TCPC ‡ Custom painted trim TRALTBD ‡ RAL painted trim	LSS Semi-specular LD Matte diffuse LS Specular	TRW White painted flange TRBL Black painted flange FCPC Custom painted flange only FRALTBD RAL painted flange only	MVOLT Multi-volt 120 120V 277 277V 347 ‡ 347V

Driver	Emergency ‡	Control Input ‡	Options
GZ10 0-10V driver dims to 10%	(blank)	(blank)	HAO ‡ High ambient option (40°C)
GZ1 0-10V driver dims to 1%	EL	JOT	CP ‡ Chicago Plenum
D10 Minimum dimming 10% driver for use with JOT	ELR	NPP16D	RRL___ RELOC®-ready luminaire connectors enable a simple and consistent factory installed option across all ABL luminaire brands. Refer to RRL for complete nomenclature. Available only in RRLA, RRLB, RRLAE, and RRLC12S.
D1 Minimum dimming 1% driver for use with JOT	ELSD	NPP16DER	BAA Buy America(n) Act Compliant
EZ1 0-10V eldoLED driver with smooth and flicker-free deep dimming performance down to 1%	ELRSD	NPS80EZ	90CRI High CRI (90+)
EDAB eldoLED DALI SOLDRIIVE dim to dark	E10WCP	NPS80EZER	SF ‡ Single fuse
	E10WCP	N80	
	E10WCP	NLTAIR2	
	E10WCP	NLTAIRER2	
	E10WRSTAR	NLTAIREM2	

‡ Option Value Ordering Restrictions

Option value	Restriction
Lumens	Overall height varies based on lumen package; refer to dimensional chart.
WR, BR	Not available with finishes.
347	Not available with emergency options.
SF	Must specify voltage 120V or 277V.
TRW, TRBL	Available with clear (AR) reflector only.
EL, ELR, ELSD, ELRSD, E10WCP, E10WCP	12.5" of plenum depth or top access required for battery pack maintenance.
NPP16D, NPP16DER, NPS80EZ, NPS80EZER	Specify voltage. ER for use with generator supply EM power. Will require an emergency hot feed and normal hot feed. See UL 924 Sequence of Operation table.
N80	Fixture begins at 80% light level. Must be specified with NPS80EZ or NPS80EZ ER. Only available with EZ1 drivers.
NLTAIR, NLTAIR2, NLTAIRER2, NLTAIREM2	Not available with CP, NPS80EZ, NPS80EZER, NPP16D, NPP16DER or N80 options. not recommended for metal ceiling installations.
HAO	Fixture height is 6.5" for all lumen packages with HAO.
CP	Must specify voltage for 3000lm and above. 5000lm with marked spacing 24 L x 24 W x 14 H. Not available with emergency battery pack option.
JOT	Must specify D10 or D1 driver. Not available with nLight options. Not available with CP. Not recommended for metal ceiling installation. Not for use with emergency backup power systems other than battery packs.
Reloc® Options	Refer to RRL specification sheet on acuitybrands.com for further details.
RRLAE	Commercial fixtures should disconnect the TSPL before unplugging the RRL so it does not go into discharge mode.
RRLC12S	RRLC12S option is to be used with the OnePass OCU, OCS, OD, OFC and OD for 0-24V integrated single-circuit or 0-10V low voltage controls applications. Not available with integral dimming sensors.
TRALTBD, FRALTBD	RALTBD for pricing only. Replace with applicable RAL number and finish when ready to order. See the RAL BROCHURE for available color options.
TCPC, FCPC	CPC options for pricing only. Custom color chip needs to be sent in to your Customer Resolution specialist before order can be processed. Click HERE for more details
E10WRSTAR	Not available with wet location, EC1, EC6, QDS, CP, 347V, NPS80EZ ER, NLTAIRER2, NLTAIREM2, AL03 & AL04 w/DALI, OR 2000-4500 lumens w/JOT. Top access installation or 17.5" plenum clearance required for roomside installation. Not available with integral test switch

Accessories: Order as separate catalog number.

EAC ISSM 375	Compact interruptible emergency AC power system	SCA6 Sloped Ceiling Adapter. Degree of slope must be specified (5D, 10D, 15D, 20D, 25D, 30D). Ex: SCA6 10D
EAC ISSM 125	Compact interruptible emergency AC power system	
GRA68 JZ	Oversized trim ring with 8" outside diameter	



Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

(Maximum order quantity for design select lead times is 112.)

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime (Minutes)	Lumen Output* @ 120 Lumens/Watt	Other
ILB CP07 2H A	7W	120	840	Storm Shelter / 2 Hour Runtime
ILB CP10 A	10W	90	1200	
ILBLP CP10 HE SD A+	10W	90	1200	Title 20, Self Diagnostic
ILBLP CP15 HE SD A+	15W	90	1800	Title 20, Self Diagnostic
ILB CP20 HE A	20W	90	2400	Title 20
ILB CP20 HE SD A	20W	90	2400	Title 20, Self Diagnostic
ILBHI CP10 HE SD A+	10W	90	1200	347-480V AC Input, Title 20, Self Diagnostic
ILBHI CP15 HE SD A+	15W	90	1800	347-480V AC Input, Title 20, Self Diagnostic

All the above are UL Listed products that are certified for field install external/remote to the fixture.

*Minimum delivered lumen output to assist in product selection for increased fixture mounting height.

The CP10 delivered emergency illumination outperforms legacy 1400 lumen fluorescent emergency ballast.

Please contact us at techsupport@iotaengineering.com for any Emergency Battery related questions.

PHOTOMETRY

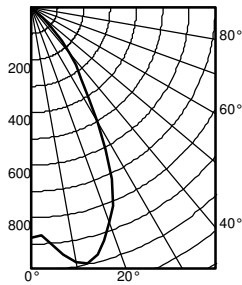
Distribution Curve

Distribution Data

Output Data

Illuminance Data at 30" Above Floor for
a Single Luminaire

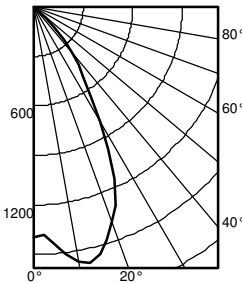
LDN6 35/10 L06AR, input watts: 10.44, delivered lumens: 987.10, LM/W = 94.54, spacing criterion at 0= 1.02, test no. ISF 30716P262.



Ave	Lumens	Zone	Lumens	% Lamp
0	876	0° - 30°	680.7	69.0
5	905	0° - 40°	895.0	90.7
15	971	0° - 60°	986.0	99.9
25	720	0° - 90°	987.0	100.0
35	330	90° - 120°	0.0	0.0
45	110	90° - 130°	0.0	0.0
55	1	90° - 150°	0.0	0.0
65	1	90° - 180°	0.0	0.0
75	0	0° - 180°	987.0	*100.0
85	0			
90	0			

		50% beam - 54.5°		10% beam - 82.2°	
Initial FC					
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	29.0	5.7	14.5	9.6	2.9
10.0	15.6	7.7	7.8	13.1	1.6
12.0	9.7	9.8	4.9	16.6	1.0
14.0	6.6	11.8	3.3	20.1	0.7
16.0	4.8	13.9	2.4	23.6	0.5

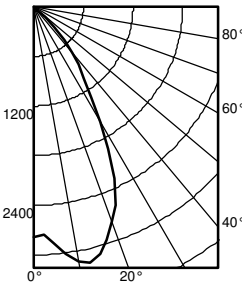
LDN6 35/15 L06AR, input watts: 17.52, delivered lumens: 1572.9, LM/W = 89.77, spacing criterion at 0= 1.02, test no. ISF 30716P265.



Ave	Lumens	Zone	Lumens	% Lamp
0	1396	0° - 30°	1084.6	69.0
5	1442	0° - 40°	1426.2	90.7
15	1547	0° - 60°	1571.3	99.9
25	1147	0° - 90°	1572.9	100.0
35	526	90° - 120°	0.0	0.0
45	176	90° - 130°	0.0	0.0
55	2	90° - 150°	0.0	0.0
65	1	90° - 180°	0.0	0.0
75	1	0° - 180°	1572.9	*100.0
85	0			
90	0			

		50% beam - 54.5°		10% beam - 82.2°	
Initial FC					
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	46.2	5.7	23.1	9.6	4.6
10.0	24.8	7.7	12.4	13.1	2.5
12.0	15.5	9.8	7.7	16.6	1.5
14.0	10.6	11.8	5.3	20.1	1.1
16.0	7.7	13.9	3.8	23.6	0.8

LDN6 35/30 L06AR, input watts: 34.75, delivered lumens: 3138.5, LM/W = 90.31, spacing criterion at 0= 1.02, test no. ISF 30716P274.



Ave	Lumens	Zone	Lumens	% Lamp
0	2786	0° - 30°	2164.3	69.0
5	2877	0° - 40°	2845.9	90.7
15	3087	0° - 60°	3135.3	99.9
25	2289	0° - 90°	3138.5	100.0
35	1049	90° - 120°	0.0	0.0
45	350	90° - 130°	0.0	0.0
55	5	90° - 150°	0.0	0.0
65	2	90° - 180°	0.0	0.0
75	1	0° - 180°	3138.5	*100.0
85	0			
90	0			

		50% beam - 54.5°		10% beam - 82.2°	
Initial FC					
Mounting	Center				
Height	Beam	Diameter	FC	Diameter	FC
8.0	92.1	5.7	46.1	9.6	9.2
10.0	49.5	7.7	24.8	13.1	5.0
12.0	30.9	9.8	15.4	16.6	3.1
14.0	21.1	11.8	10.5	20.1	2.1
16.0	15.3	13.9	7.6	23.6	1.5

HOW TO ESTIMATE DELIVERED LUMENS IN EMERGENCY MODE

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for PS1055CP

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

Notes

- Tested in accordance with IESNA LM-79-08.
- Tested to current IES and NEMA standards under stabilized laboratory conditions.
- CRI: 80 typical.

LUMEN OUTPUT MULTIPLIERS - FINISH

	Clear (AR)	White (WR)	Black (BR)
Specular (LS)	1.0	N/A	N/A
Semi-specular (LSS)	0.950	N/A	N/A
Matte diffuse (LD)	0.85	N/A	N/A
Painted	N/A	0.87	0.73

LUMEN OUTPUT MULTIPLIERS - CRI

80	1.0
90	0.874

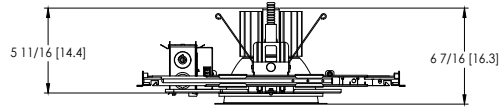
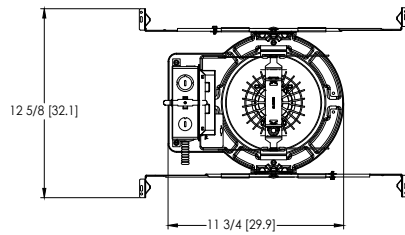
LUMEN OUTPUT MULTIPLIERS - CCT

	2700K	3000K	3500K	4000K	5000K
80CRI	0.950	0.966	1.000	1.025	1.101

LDN6

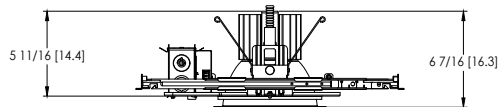
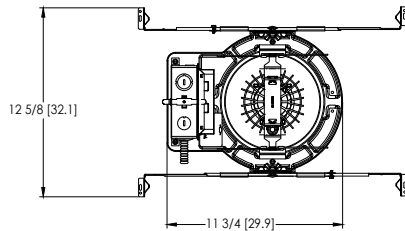
* All dimensions are inches (centimeters) unless otherwise noted.

LDN6 500-3000 Lumens



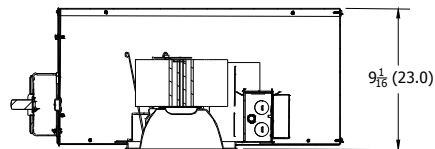
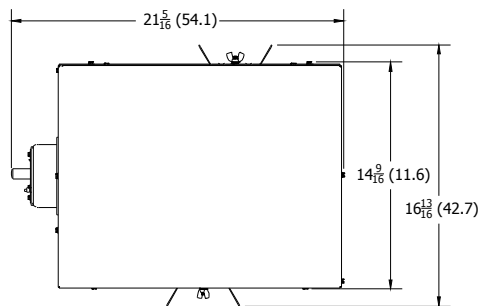
Aperture: $\varnothing$ 6-1/4" [15.9]
Ceiling Cutout: $\varnothing$ 7-1/8" [18.1] Self-flanged
Overlap Trim: $\varnothing$ 7-1/2" [19.1]

LDN6 4000-5000 Lumens



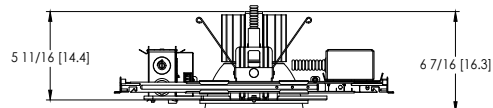
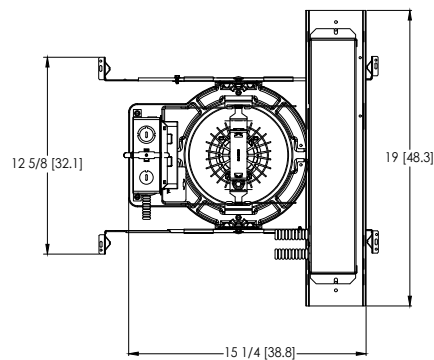
Marked Spacing: 24" x 24" x 10"
Aperture: $\varnothing$ 6-1/4" [15.9]
Ceiling Cutout: $\varnothing$ 7-1/8" [18.1] Self-flanged
Overlap Trim: $\varnothing$ 7-1/2" [19.1]

LDN6 CP



Aperture: 6-1/4 (15.9)
Ceiling Opening: 7-1/8 (18.1)
Overlap Trim: 7-1/2 (19.1)

LDN6 EL



Marked Spacing above 3000lm: 24" x 24" x 10"
Aperture: $\varnothing$ 6-1/4" [15.9]
Ceiling Cutout: $\varnothing$ 7-1/8" [18.1] Self-flanged
Overlap Trim: $\varnothing$ 7-1/2" [19.1]

ADDITIONAL DATA



The Sensor Switch JOT enabled solution offers a wireless, app-free approach to single room lighting control. JOT enabled products use Bluetooth® Low Energy (BLE) technology to enable wireless dimming and switching.

Diagram



LDN6 Series



Sensor Switch
WSXA JOT

- 1. **Power:** Install JOT enabled fixtures and controls as instructed.
- 2. **Pair:** Insert the pairing tool into the pinhole on the wall switch; press and hold any button for 6 seconds.
- 3. **Play:** Once paired, each fixture will individually dim down to 10% brightness. All products will be fully functional.

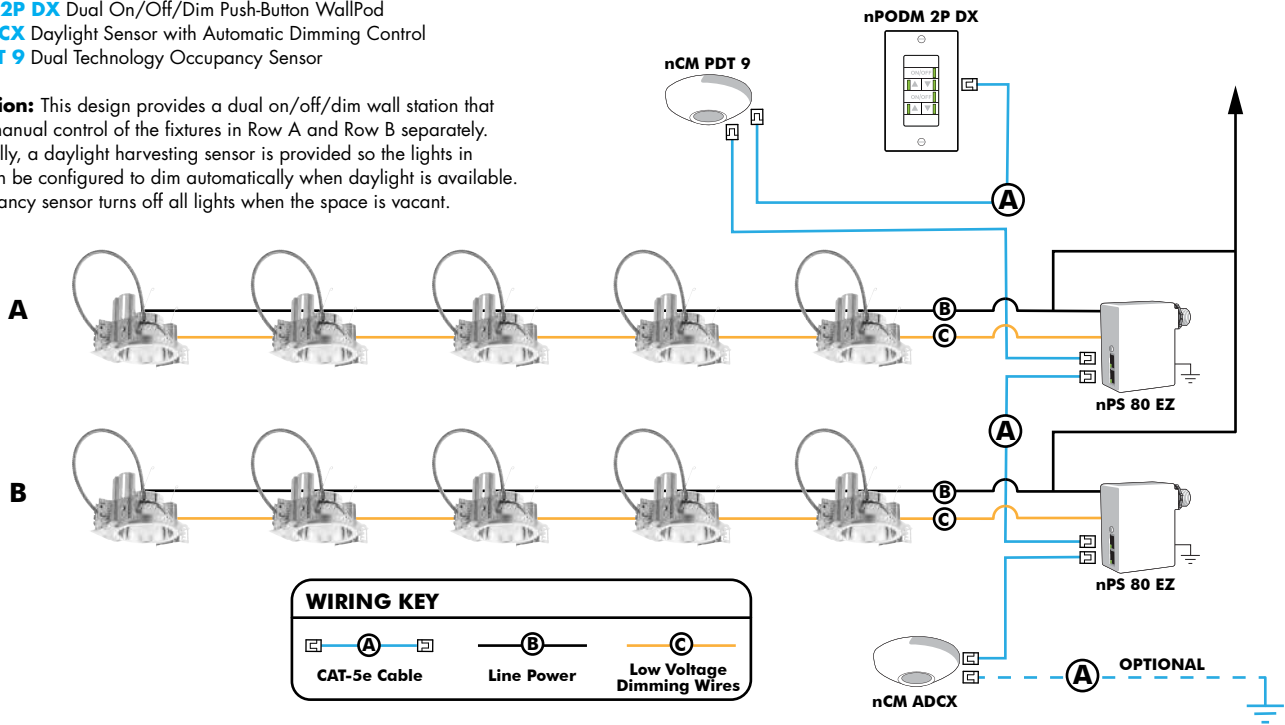
COMPATIBLE 0-10V WALL-MOUNT DIMMERS		
MANUFACTURER	PART NO.	POWER BOOSTER AVAILABLE
Lutron®	Diva® DVTV	
	Diva® DVSCVT	
	Nova T® NTFTV	
	Nova® NFTV	
Leviton®	AWSMT-7DW	CN100
	AWSMG-7DW	PE300
	AMRMG-7DW	
	Leviton Centura Fluorescent Control System	
	IllumaTech® IP7 Series	
Synergy®	ISD BC	RDMFC
	SLD LPCS	
	Digital Equinox (DEQ BC)	
Douglas Lighting Controls	WPC-5721	
Entertainment Technology	Tap Glide TG600FAM120 (120V)	
	Tap Glide Heatsink TGH1500FAM120 (120V)	
	Oasis OA2000FAMU	
Honeywell	EL7315A1019	EL7305A1010 (optional)
	EL7315A1009	
HUNT Dimming	Preset slide: PS-010-IV and PS-010-WH	
	Preset slide: PS-010-3W-IV and PS-010-3W-WH	
	Preset slide, controls FD-010: PS-IFC-010-IV and PS-IFC-010-WH-120/277V	
	Preset slide, controls FD-010: PS-IFC-010-3W-IV and PS-IFC-010-3W-WH-120/277V	
	Remote mounted unit: FD-010	
Lehigh Electronic Products	Solitaire	PBX
PDM Electrical Products	WPC-5721	
Starfield Controls	TR61 with DALI interface port	RT03 DALI.net Router
WattStopper®	LS-4 used with LCD-101 and LCD-103	

EXAMPLE

Group Fixture Control*
*Appiication diagram applies for fixtures with eldoLED drivers only.

- nPS 80 EZ Dimming/Control Pack (qty: 2 required)
- nPODM 2P DX Dual On/Off/Dim Push-Button WallPod
- nCM ADCX Daylight Sensor with Automatic Dimming Control
- nCM PDT 9 Dual Technology Occupancy Sensor

Description: This design provides a dual on/off/dim wall station that enables manual control of the fixtures in Row A and Row B separately. Additionally, a daylight harvesting sensor is provided so the lights in Row B can be configured to dim automatically when daylight is available. An occupancy sensor turns off all lights when the space is vacant.



Choose Wall Controls

nLight offers multiple styles of wall controls - each with varying features and user experience.



Push-Button Wallpod
Traditional tactile buttons and LED user feedback



Graphic Wallpod
Full color touch screen provides a sophisticated look and feel

nLight® Wired Controls Accessories:			
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlight for complete listing of nLight controls.			
WallPod Stations	Model number	Occupancy sensors	Model Number
On/Off	nPODM (Color)	Small motion 360°, ceiling (PIR/dual Tech)	nCM 9 / nCM PDT 9
On/Off & Raise/Lower	nPOD DX (Color)	Large motion 360°, ceiling (PIR/dual tech)	nCM 10 / nCM PDT 10
Graphic Touchscreen	nPOD GFX (Color)	Wide View (PIR/dual tech)	nWV 16 / nWV PDT 16
Photocell controls	Model Number	Wall Switch w/ Raise/Lower (PIR/dual tech)	nWSX LV DX / nWSX PDT LV DX
Dimming	nCM ADCX	Cat-5 cables (plenum rated)	Model Number
		10', CAT5 10FT	CAT5 10FT J1
		15, CAT5 15FT	CAT5 15FT J1

nLight® AIR Control Accessories:	
Order as separate catalog number. Visit www.acuitybrands.com/products/controls/nlightair .	
Wall switches	Model number
On/Off single pole	rPODB [color]
On/Off two pole	rPODB 2P [color]
On/Off & raise/lower single pole	rPODB DX [color]
On/Off & raise/lower two pole	rPODB 2P DX [color]
On/Off & raise/lower single pole	rPODBZ DX WH ¹

Notes

- 1 Can only be ordered with the RES7Z zone control sensor version.

UL924 Sequence of Operation

The below information applies to all nLight AIR devices with an EM option.

- EM devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, EM devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- Only non-emergency rPP20, rLSXR, rSBOR, rSDGR, and nLight AIR luminaires with version 3.4 or later firmware can provide normal power sensing for EM devices. See specification sheets for control devices and luminaires for more information on options that support normal power sensing.

nLight AIR

nLight AIR is the ideal solution for retrofit or new construction spaces where adding communication is cost prohibitive. The integrated nLight AIR rPP20 Power Pack is part of each Lithonia LDN Luminaire. These individually addressable controls offer the ultimate in flexibility during initial setup and for space repurposing.



Simple as 1,2,3

1. Install the nLight® AIR fixtures with embedded smart sensor
2. Install the wireless battery-powered wall switch
3. With CLAIRITY app, pair the fixtures with the wall switch and if desired, customize the sensor settings for the desired outcome



AREA & ROADWAY LIGHTING

Pacifica - PT2 PLED

CONTEMPORARY, ROUND FORM POST TOP LUMINAIRE

PROJECT NAME: _____

PROJECT TYPE: **OB5**

Luminaire

All housing components are all heavy wall cast aluminum alloy (A356 alloy, <0.2% copper). Removable internal heatsink provides direct mounting of the LED modules and thermal control for long life and efficiency. Optical axes through the aperture of housing top. Driver is accessed through filter cap at strut base. All Hardware is stainless steel.

Post Top Mounting

Luminaire fitter mounts over 2-7/8" O.D. x 3.00" tenon. Stainless steel set screws provided for leveling and securing fixture over tenon.

PLED™ Optics

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED refractor. LED optics completely seal each individual emitter to meet an IP66 rating. In asymmetric distributions, a micro-reflector inside the refractor re-directs the house side emitter output towards the street side, maximizing usable light. Optional house side shields are available that cover each individual optic. Refractors are injection molded H12 acrylic. Each LED refractor is sealed to the PCB over an emitter and all refractors are retained by an aluminum frame. Any one Panel, or group of Panels in a luminaire, have the same optical pattern. LED refractors produce standard site/area distributions. Panels are field replaceable and field rotatable in 90° increments. Quick-disconnects are provided above each panel for fast field replacement. All fixture optical options will provide a "U0" no uplight optical package and are dark sky friendly.

Ambience™ Low Luminance Lens

Optional Ambience Lens (AL) provides low luminance reduced glare distributions. Lens diffuses the PLED Optics and provides a more uniform luminance across the aperture reducing glare at all angles. Lens is provided with an aluminum frame and is sealed to the housing with high temp gasketing.

LED Emitters

LED thermal management is designed to maintain LED operating temperature below 90 °C, well below the manufacturers thermal max of 150 °C for long life, high lumen maintenance and color stability. High Power White LED's are driven between 350mA and 875mA for a maximum output of 2.5 Watts nominal. LED's are available in standard Warm White (2700K & 3000K), Neutral White (4000K), and Cool White (5000K). All Standard LED's have a minimum of 70 CRI. Consult Factory for other LED options. Lumen Maintenance of L93 at 100,000 hours (TM-21 calculated at 6x Test Time).

True Amber LED's TRA-True Amber LED's emit light in the amber spectral bandwidth centered on 585-590nm. True Amber has negligible blue light and is suitable for wildlife.

LED Driver

Constant current electronic with a power factor of >.90 and a minimum operating temperature of -40°F/-40°C. Driver(s) is/are UL and cUL recognized. In-line terminal blocks facilitate wiring between the driver and optical arrays. Drivers accept an input of 120-277V, 50/60Hz or 347V-480V, 50/60Hz. 0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection. Luminaire supplied with a separate 20KV surge protector for field installation.

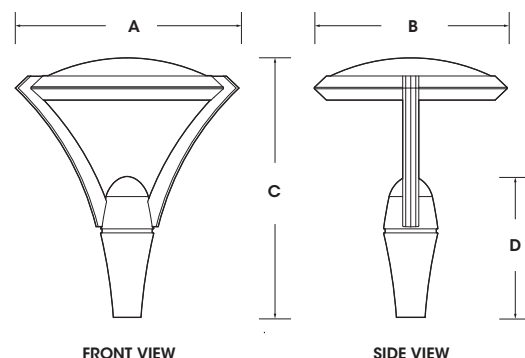
Finish

Super TGIC polyester powder coating is applied onto a metal substrate this has been pretreated with a four-stage process for maximum adhesion and color retention. The top coat is baked at 400° F for maximum hardness and exterior durability.



PAC-PT2

(PAC24-PT2 shown)



Fixture	A	B	C	D
PAC24-PT2	28" 711mm	24" 610mm	32" 813mm	17.5" 445mm
PAC18-PT2	22" 559mm	19" 483mm	25" 635mm	14" 356mm



U.L. Listed for
Wet Location

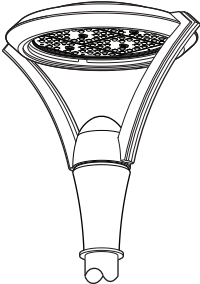
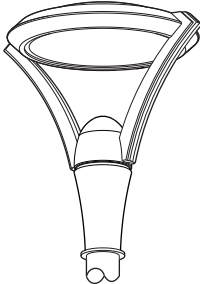
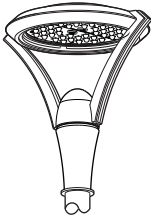
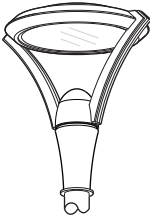


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PAC-PT2 SERIES - PLED

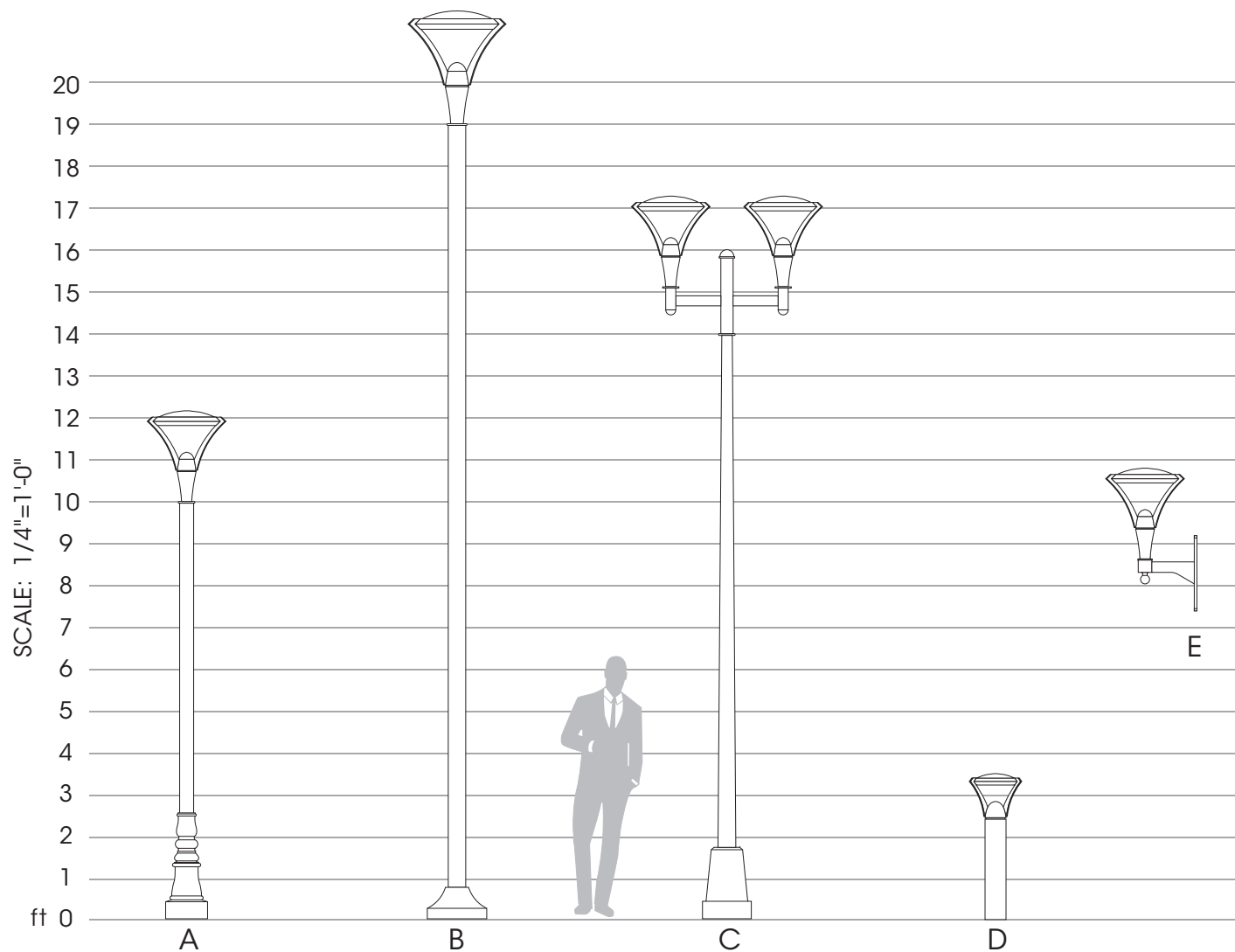
PRODUCT CONFIGURATIONS

EPA & WEIGHT

No Lens	w/ Ambience™ Low Luminance Lens
 PAC24-PT2 Max Weight = 65 lbs Max EPA = 1.26 80 LED Max	 PAC24-PT2-AL Max Weight = 65 lbs Max EPA = 1.26 80 LED Max
 PAC18-PT2 Max Weight = 45 lbs Max EPA = 0.81 48 LED Max	 PAC18-PT2-AL Max Weight = 45 lbs Max EPA = 0.81 48 LED Max

PAC-PT2 SERIES - PLED

SAMPLE ASSEMBLIES

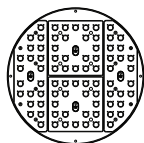


- A. 24-1040-10'/PT/PAC18-PT2/LED/ACCESSORIES/FINISH
- B. RNTS195-11-RBC/PT/PAC24-PT2/LED/ACCESSORIES/FINISH
- C. 25-1035T/XAL-PT-2-180/PAC18-PT2/LED/ACCESSORIES/FINISH
- D. PACB/LED/ACCESSORIES/FINISH
- E. XBY-WM/PAC18-PT2/LED/ACCESSORIES/FINISH

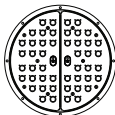
Sample Assemblies show a small offering of the Sun Valley Line of Poles, Bases, Shafts, Arms, & Luminaires. Please visit usalftg.com for the full product offering.

PAC-PT2 SERIES - PLED

PLED™ MODULES



80 LED Module



48 LED Module



36 LED Module



20 LED Module

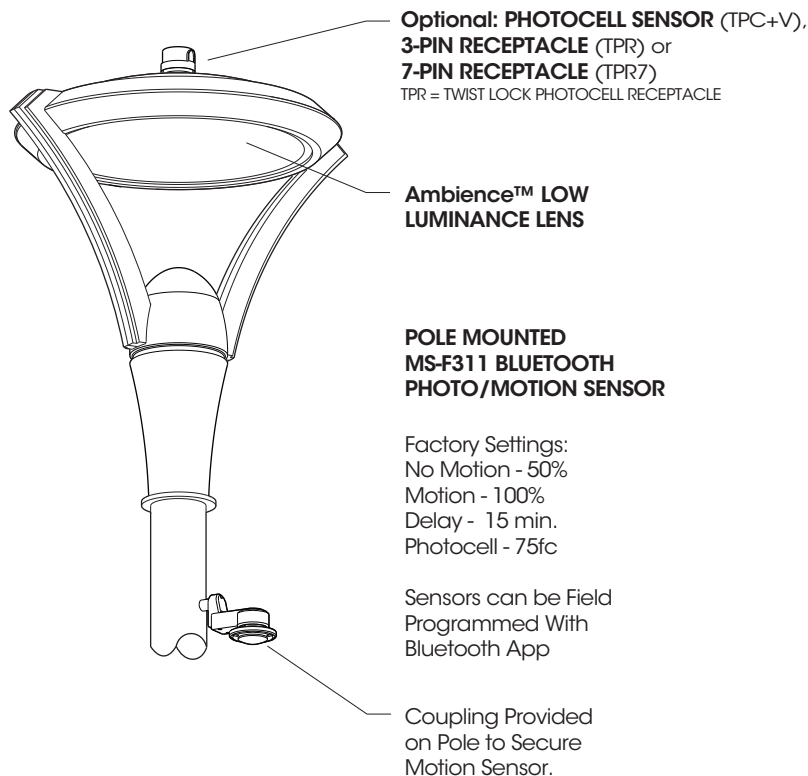
ORDERING INFORMATION

Spec/Order Example: PAC24-PT2/PLED-II/36LED-525mA/27K/UNV/RAL-9005-S/TPR7

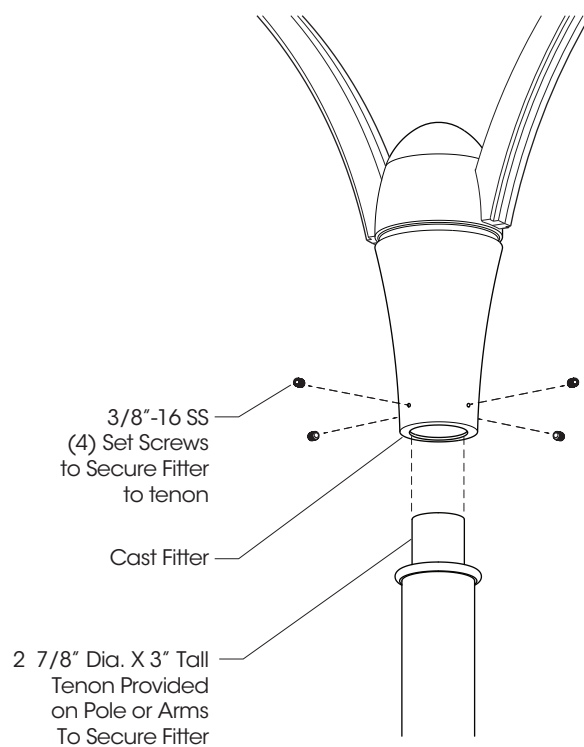
Luminaire	Optics	LED Mode			Voltage	Finish	Options
Luminaire	Optics	LED			Voltage	Finish	Options
	PLED™ Distribution Type	# of LEDs	Drive Current	Color Temp - CCT		Standard Textured Finish	
☐ PAC24-PT2	For NL Options: ☐ PLED-II	☐ 80LED ¹	☐ 875mA	☐ 27K (2700K)	☐ UNV (120-277)	☐ Black RAL-9005-T	☐ Internal House Side Shield incl. LED Count (Example: HS-PLED/48) HS-PLED
☐ PAC18-PT2	☐ PLED-II-FR	☐ 48LED	☐ 700mA	☐ 30K (3000K)	☐ 347	☐ White RAL-9003-T	☐ Twist Lock Receptable Only TPR
	☐ PLED-II-ML	☐ 36LED	☐ 525mA	☐ 40K (4000K)	☐ 480	☐ Grey RAL-7004-T	☐ 7-Pin Twist Lock Receptable Only TPR7
	☐ PLED-III	☐ 20LED ²	☐ 350mA	☐ 50K (5000K)		☐ Dark Bronze RAL-8019-T	☐ High-Low Dimming for Switch by Others/Select Levels 50/100 or 25/100 (Example: HLSW/25) HLSW
	☐ PLED-III-W		☐ 175mA	☐ TRA ³ True Amber		☐ Green RAL-6005-T	☐ Twist Lock Photocell + Voltage (Example: TPC347V) TPC+V
	☐ PLED-IV	NOTES:				Premium Finishes	☐ Photocell + Voltage (Example: PC120V) PC+V
	☐ PLED-IV-FT	1 - 80LED available in PAC24-PT2 only					☐ Single Fuse (Example: DF277V) SF+V
	☐ PLED-V-SQ-N	2 - 20LED available in PAC18-PT2 only				☐ Rust	☐ Double Fuse (Example: DF240V) DF+V
	☐ PLED-V-SQ-M	3 - TRA available in 350mA & 525mA Drive Currents only				☐ Patina Copper PC	☐ Blue-Tooth Programmable Photo/Motion Sensor (Factory - Motion 50/100; Photo 75(c)) MS-F311
	☐ PLED-V-SQ-W	4 - Ambience Lens available in PAC24-PT2 (80LED) and PAC18-PT2 (48LED) only				For smooth finish replace suffix "T" with suffix "S" (Example: RAL-9500-S)	
	Ambience™ Lens Option 4: ☐ AL-ASY ☐ AL-ASY-HS ☐ AL-SYM	Consult factory for other CCT, CRI, & Drive Current options				Consult factor for custom colors	

PAC-PT2 SERIES - PLED

OPTIONS



INSTALLATION DETAIL



High Low Dimming For Switches (HLSW)

The HLSW is a small Electronic Switch which provides High Low Dimming Control through the LED Driver's 0-10V Control. Switching is done by adding a secondary AC Switched Hot Trigger Line to the HLSW in addition to the normal AC Power Line. When the Secondary Trigger Line is powered, the Fixture will go to 100% dimming. With no power to the Trigger, the Fixture will operate at 50% or 25% dimming. Switches for the Trigger Line can be a normal AC Switch/Breaker or Timed Switch/Breaker.

Wireless and Other Fixture Controls

Contact factory for Wireless and other Fixture Controls and recommendations. Most Controls can be integrated and factory installed.

PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LM-80 LUMEN MAINTENANCE

LED LUMEN MAINTENANCE (350mA to 875mA)		
LED Life / Operating Hours	Lumen Depreciation	Lumen Depreciation Scale Factor
60,000	L96	0.96x
100,000 (6X LED Test Hrs)	L93	0.93x
150,000 (Theoretical)	L89	0.90x
200,000 (Theoretical)	L86	0.87x

TM-21 6x Test Time Dictates that L93 > 100,000 Hours.

Lumen Depreciation Calculations Done in Accordance With IESNA TM-21 & LM-80 (25°C Ambient)

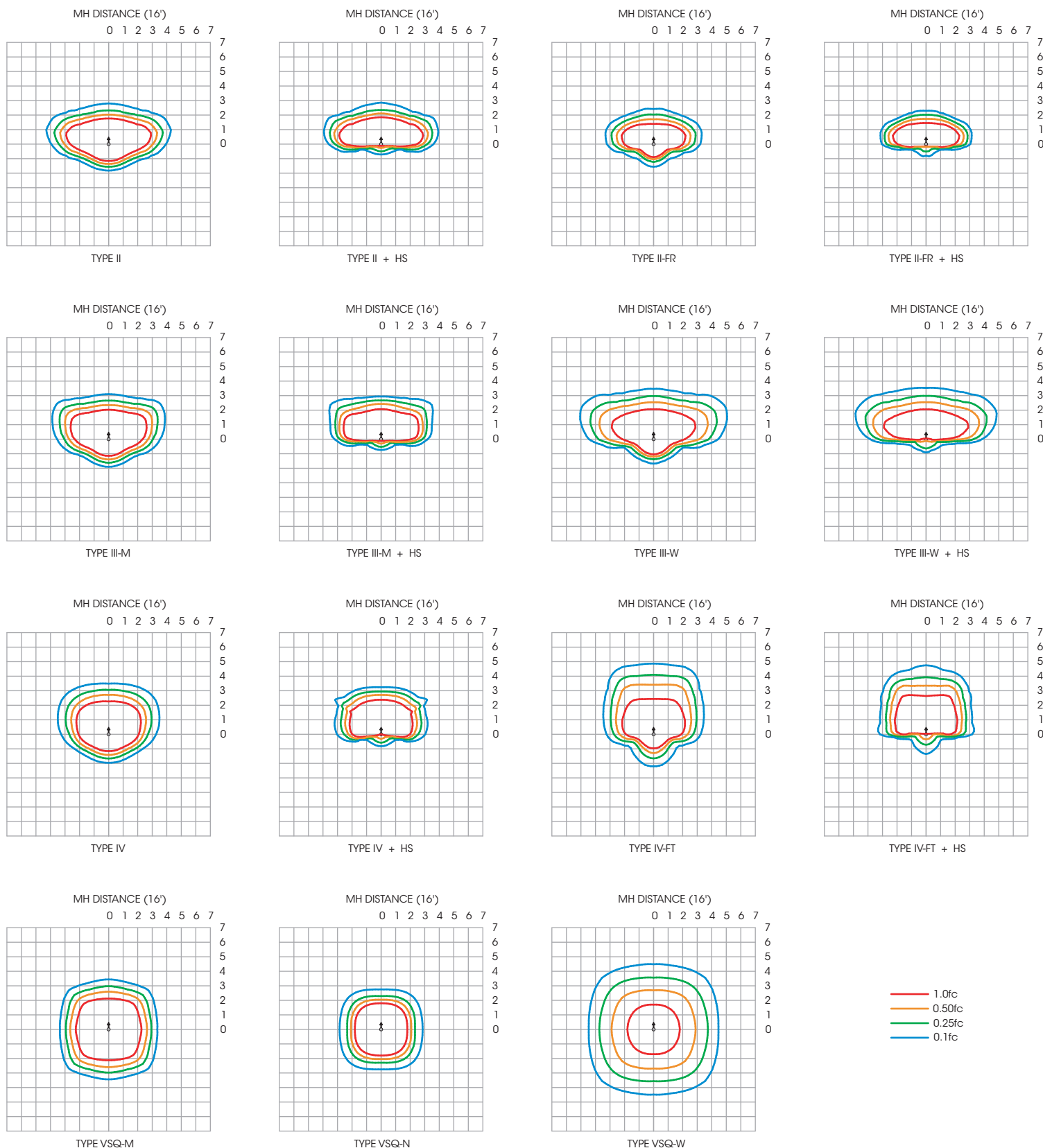
ELECTRICAL DATA GUIDE - AMPERAGE CHART

# of LEDs	mA	System Watts	120V	208V	277V	347V	480V
20	350	23.6	0.20	0.11	0.09	0.07	0.05
20	525	35.5	0.30	0.17	0.13	0.10	0.07
20	700	47.0	0.39	0.23	0.17	0.14	0.10
20	875	58.4	0.49	0.28	0.21	0.17	0.12
36	350	41.3	0.34	0.20	0.15	0.12	0.09
36	525	62.0	0.52	0.30	0.22	0.18	0.13
36	700	82.6	0.69	0.40	0.30	0.24	0.17
36	875	103.1	0.86	0.50	0.37	0.30	0.21
48	175	26.5	0.22	0.13	0.10	0.08	0.06
48	350	53.6	0.45	0.26	0.19	0.15	0.11
48	525	80.7	0.67	0.39	0.29	0.23	0.17
48	700	108.0	0.90	0.52	0.39	0.31	0.23
48	875	134.7	1.12	0.65	0.49	0.39	0.28
80	175	41.9	0.35	0.20	0.15	0.12	0.09
80	350	85.8	0.72	0.41	0.31	0.25	0.18
80	525	129.7	1.08	0.62	0.47	0.37	0.27
80	700	173.5	1.45	0.83	0.63	0.50	0.36
80	875	221.5	1.85	1.06	0.80	0.64	0.46

PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

PAC18-PT-PLED-36LED-700mA-40K - 16 Mounting Height (14' Pole)



PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

PAC18-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
20	350	23.6	II	3152	134	B1-U0-G1	3288	139	B1-U0-G1	3426	145	B1-U0-G1	3563	151	B1-U0-G1	18.2	1096	60	B0-U0-G0
			II-FR	3173	134	B1-U0-G1	3311	140	B1-U0-G1	3449	146	B1-U0-G1	3587	152	B1-U0-G1		1104	61	B0-U0-G0
			III-M	3207	136	B1-U0-G1	3346	142	B1-U0-G1	3486	148	B1-U0-G1	3625	154	B1-U0-G1		1115	61	B0-U0-G0
			III-W	2978	126	B1-U0-G1	3107	132	B1-U0-G1	3237	137	B1-U0-G1	3366	143	B1-U0-G1		1036	57	B0-U0-G1
			IV	3183	135	B1-U0-G1	3321	141	B1-U0-G1	3459	147	B1-U0-G1	3598	152	B1-U0-G1		1107	61	B0-U0-G0
			IV-FT	2899	123	B1-U0-G1	3025	128	B1-U0-G1	3151	134	B1-U0-G1	3277	139	B1-U0-G1		1008	55	B0-U0-G1
			VSQ-N	3327	141	B2-U0-G0	3472	147	B2-U0-G0	3616	153	B2-U0-G0	3761	159	B2-U0-G0		1157	64	B1-U0-G0
			VSQ-M	3262	138	B2-U0-G1	3404	144	B2-U0-G1	3546	150	B2-U0-G1	3688	156	B2-U0-G1		1135	62	B1-U0-G0
			VSQ-W	3184	135	B2-U0-G1	3322	141	B2-U0-G1	3461	147	B3-U0-G1	3600	153	B3-U0-G1		1108	61	B1-U0-G1
			II-HS	2305	98	B0-U0-G1	2405	102	B0-U0-G1	2505	106	B0-U0-G1	2606	110	B0-U0-G1		802	44	B0-U0-G0
			II-FR-HS	2345	99	B0-U0-G0	2447	104	B0-U0-G0	2549	108	B0-U0-G0	2651	112	B0-U0-G0		816	45	B0-U0-G0
			III-M-HS	2332	99	B0-U0-G1	2433	103	B0-U0-G1	2535	107	B0-U0-G1	2636	112	B0-U0-G1		811	45	B0-U0-G0
			III-W-HS	2282	97	B0-U0-G1	2382	101	B0-U0-G1	2481	105	B0-U0-G1	2580	109	B0-U0-G1		794	44	B0-U0-G1
			IV-HS	2409	102	B0-U0-G1	2513	106	B0-U0-G1	2618	111	B0-U0-G1	2722	115	B0-U0-G1		838	46	B0-U0-G0
			IV-FT-HS	2277	96	B0-U0-G1	2376	101	B0-U0-G1	2475	105	B0-U0-G1	2574	109	B0-U0-G1		792	44	B0-U0-G1
20	525	35.5	II	4481	126	B1-U0-G1	4676	132	B1-U0-G1	4871	137	B1-U0-G1	5066	143	B1-U0-G1	27.3	1266	46	B1-U0-G0
			II-FR	4511	127	B1-U0-G1	4707	133	B1-U0-G1	4904	138	B1-U0-G1	5100	144	B1-U0-G1		1275	47	B1-U0-G0
			III-M	4560	128	B1-U0-G1	4758	134	B1-U0-G1	4956	140	B1-U0-G1	5154	145	B1-U0-G1		1288	47	B0-U0-G0
			III-W	4234	119	B1-U0-G2	4418	124	B1-U0-G2	4602	130	B1-U0-G2	4786	135	B1-U0-G2		1196	44	B0-U0-G1
			IV	4525	127	B1-U0-G1	4722	133	B1-U0-G1	4919	139	B1-U0-G1	5116	144	B1-U0-G1		1279	47	B0-U0-G1
			IV-FT	4123	116	B1-U0-G2	4302	121	B1-U0-G2	4481	126	B1-U0-G2	4660	131	B1-U0-G2		1165	43	B0-U0-G1
			VSQ-N	4730	133	B2-U0-G1	4935	139	B2-U0-G1	5141	145	B2-U0-G1	5347	151	B2-U0-G1		1337	49	B1-U0-G0
			VSQ-M	4638	131	B3-U0-G1	4839	136	B3-U0-G1	5041	142	B3-U0-G1	5243	148	B3-U0-G1		1311	48	B1-U0-G0
			VSQ-W	4528	128	B3-U0-G2	4725	133	B3-U0-G2	4921	139	B3-U0-G2	5118	144	B3-U0-G2		1279	47	B1-U0-G1
			II-HS	3278	92	B0-U0-G1	3420	96	B0-U0-G1	3563	100	B0-U0-G1	3705	104	B0-U0-G1		926	34	B0-U0-G0
			II-FR-HS	3334	94	B0-U0-G1	3479	98	B0-U0-G1	3624	102	B0-U0-G1	3768	106	B0-U0-G1		942	35	B0-U0-G0
			III-M-HS	3316	93	B0-U0-G1	3460	97	B0-U0-G1	3604	102	B0-U0-G1	3748	106	B0-U0-G1		937	34	B0-U0-G0
			III-W-HS	3246	91	B0-U0-G1	3387	95	B0-U0-G1	3528	99	B0-U0-G1	3669	103	B0-U0-G2		917	34	B0-U0-G1
			IV-HS	3425	96	B0-U0-G1	3574	101	B0-U0-G1	3722	105	B0-U0-G1	3871	109	B0-U0-G1		968	35	B0-U0-G0
			IV-FT-HS	3237	91	B0-U0-G2	3377	95	B0-U0-G2	3518	99	B0-U0-G2	3659	103	B0-U0-G2		915	34	B0-U0-G1
20	700	47.0	II	5637	120	B1-U0-G1	5882	125	B2-U0-G1	6127	130	B2-U0-G1	6372	136	B2-U0-G2	N/A	N/A		
			II-FR	5674	121	B2-U0-G1	5921	126	B2-U0-G1	6168	131	B2-U0-G1	6414	136	B2-U0-G1				
			III-M	5735	122	B1-U0-G2	5984	127	B1-U0-G2	6234	133	B2-U0-G2	6483	138	B2-U0-G2				
			III-W	5325	113	B1-U0-G2	5556	118	B1-U0-G2	5788	123	B1-U0-G2	6019	128	B1-U0-G2				
			IV	5692	121	B1-U0-G1	5939	126	B1-U0-G2	6187	132	B2-U0-G2	6435	137	B2-U0-G2				
			IV-FT	5185	110	B1-U0-G2	5410	115	B1-U0-G2	5636	120	B1-U0-G2	5861	125	B1-U0-G2				
			VSQ-N	5949	127	B2-U0-G1	6208	132	B2-U0-G1	6466	138	B2-U0-G1	6725	143	B2-U0-G1				
			VSQ-M	5834	124	B3-U0-G1	6088	130	B3-U0-G1	6341	135	B3-U0-G1	6595	140	B3-U0-G1				
			VSQ-W	5694	121	B3-U0-G2	5942	126	B3-U0-G2	6189	132	B3-U0-G2	6437	137	B3-U0-G2				
			II-HS	4122	88	B0-U0-G1	4302	92	B0-U0-G1	4481	95	B0-U0-G1	4660	99	B1-U0-G1				
			II-FR-HS	4193	89	B0-U0-G1	4376	93	B0-U0-G1	4558	97	B0-U0-G1	4740	101	B0-U0-G1				
			III-M-HS	4170	89	B0-U0-G1	4351	93	B0-U0-G2	4533	96	B0-U0-G2	4714	100	B0-U0-G2				
			III-W-HS	4082	87	B0-U0-G2	4259	91	B0-U0-G2	4437	94	B0-U0-G2	4614	98	B0-U0-G2				
			IV-HS	4308	92	B0-U0-G1	4495	96	B0-U0-G1	4682	100	B0-U0-G2	4869	104	B0-U0-G2				
			IV-FT-HS	4071	87	B0-U0-G2	4248	90	B0-U0-G2	4425	94	B0-U0-G2	4602	98	B0-U0-G2				
20	875	58.4	II	6639	114	B2-U0-G2	6928	119	B2-U0-G2	7216	124	B2-U0-G2	7505	129	B2-U0-G2	N/A	N/A		
			II-FR	6683	114	B2-U0-G1	6974	119	B2-U0-G1	7264	124	B2-U0-G1	7555	129	B2-U0-G1				
			III-M	6755	116	B2-U0-G2	7048	121	B2-U0-G2	7342	126	B2-U0-G2	7636	131	B2-U0-G2				
			III-W	6272	107	B1-U0-G2	6545	112	B1-U0-G2	6817	117	B1-U0-G2	7090	121	B1-U0-G2				
			IV	6704	115	B2-U0-G2	6996	120	B2-U0-G2	7287	125	B2-U0-G2	7579	130	B2-U0-G2				
			IV-FT	6107	105	B1-U0-G2	6373	109	B1-U0-G2	6638	114	B1-U0-G2	6904	118	B1-U0-G2				
			VSQ-N	7007	120	B2-U0-G1	7312	125	B2-U0-G1	7617	130	B2-U0-G1	7921	136	B3-U0-G1				
			VSQ-M	6871	118	B3-U0-G1	7170	123	B3-U0-G1	7469	128	B3-U0-G1	7767	133	B3-U0-G2				
			VSQ-W	6707	115	B3-U0-G2	6999	120	B3-U0-G2	7290	125	B3-U0-G2	7582	130	B3-U0-G2				
			II-HS	4855	83	B1-U0-G2	5066	87	B1-U0-G2	5278	90	B1-U0-G2	5489	94	B1-U0-G2				
			II-FR-HS	4939	85	B0-U0-G1	5154	88	B0-U0-G1	5368	92	B0-U0-G1	5583	96	B0-U0-G1				
			III-M-HS	4912	84	B0-U0-G2	5126	88	B0-U0-G2	5339	91	B0-U0-G2	5553	95	B0-U0-G2				
			III-W-HS	4808	82	B0-U0-G2	5017	86	B0-U0-G2	5226	89	B0-U0-G2	5436	93	B0-U0-G2				
			IV-HS	5074	87	B0-U0-G2	5295	91	B0-U0-G2	5515	94	B0-U0-G2	5735	98	B0-U0-G2				
			IV-FT-HS	4795	82	B0-U0-G2	5003	86	B0-U0-G2	5212	89	B0-U0-G2	5420	93	B0-U0-G2				

IES File downloads for this product can be found at www.usalgt.com/downloads/asr.html

PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

PAC18-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
36	350	41.3	II	5529	134	B1-U0-G1	5769	140	B2-U0-G1	6010	146	B2-U0-G1	6250	151	B2-U0-G1	31.8	1923	60	B1-U0-G1
			II-FR	5567	135	B1-U0-G1	5809	141	B2-U0-G1	6051	147	B2-U0-G1	6293	152	B2-U0-G1		1936	61	B1-U0-G0
			III-M	5626	136	B1-U0-G1	5871	142	B1-U0-G2	6115	148	B1-U0-G2	6360	154	B2-U0-G2		1957	62	B1-U0-G1
			III-W	5224	126	B1-U0-G2	5451	132	B1-U0-G2	5678	137	B1-U0-G2	5905	143	B1-U0-G2		1817	57	B1-U0-G1
			IV	5584	135	B1-U0-G1	5826	141	B1-U0-G1	6069	147	B2-U0-G2	6312	153	B2-U0-G2		1942	61	B1-U0-G1
			IV-FT	5086	123	B1-U0-G2	5307	129	B1-U0-G2	5529	134	B1-U0-G2	5750	139	B1-U0-G2		1769	56	B1-U0-G1
			VSQ-N	5837	141	B2-U0-G1	6091	147	B2-U0-G1	6344	154	B2-U0-G1	6598	160	B2-U0-G1		2030	64	B1-U0-G0
			VSQ-M	5723	139	B3-U0-G1	5972	145	B3-U0-G1	6221	151	B3-U0-G1	6469	157	B3-U0-G1		1991	63	B1-U0-G0
			VSQ-W	5586	135	B3-U0-G2	5829	141	B3-U0-G2	6072	147	B3-U0-G2	6315	153	B3-U0-G2		1943	61	B2-U0-G1
			II-HS	4044	98	B0-U0-G1	4220	102	B0-U0-G1	4395	106	B0-U0-G1	4571	111	B1-U0-G1		1407	44	B0-U0-G0
			II-FR-HS	4114	100	B0-U0-G1	4293	104	B0-U0-G1	4471	108	B0-U0-G1	4650	113	B0-U0-G1		1431	45	B0-U0-G0
			III-M-HS	4091	99	B0-U0-G1	4269	103	B0-U0-G2	4447	108	B0-U0-G2	4624	112	B0-U0-G2		1423	45	B0-U0-G0
			III-W-HS	4005	97	B0-U0-G2	4178	101	B0-U0-G2	4353	105	B0-U0-G2	4527	110	B0-U0-G2		1393	44	B0-U0-G1
			IV-HS	4225	102	B0-U0-G1	4409	107	B0-U0-G1	4592	111	B0-U0-G1	4776	116	B0-U0-G2		1470	46	B0-U0-G0
			IV-FT-HS	3994	97	B0-U0-G2	4167	101	B0-U0-G2	4341	105	B0-U0-G2	4515	109	B0-U0-G2		1389	44	B0-U0-G1
36	525	62.0	II	7862	127	B2-U0-G2	8204	132	B2-U0-G2	8545	138	B2-U0-G2	8887	143	B2-U0-G2	47.7	2222	47	B1-U0-G1
			II-FR	7915	128	B2-U0-G1	8259	133	B2-U0-G1	8603	139	B2-U0-G1	8947	144	B2-U0-G1		2237	47	B1-U0-G0
			III-M	7999	129	B2-U0-G2	8347	135	B2-U0-G2	8695	140	B2-U0-G2	9043	146	B2-U0-G2		2261	47	B1-U0-G1
			III-W	7428	120	B1-U0-G2	7751	125	B1-U0-G2	8074	130	B2-U0-G2	8397	135	B2-U0-G2		2099	44	B1-U0-G1
			IV	7939	128	B2-U0-G2	8284	134	B2-U0-G2	8630	139	B2-U0-G2	8975	145	B2-U0-G2		2244	47	B1-U0-G1
			IV-FT	7232	117	B2-U0-G2	7547	122	B2-U0-G2	7861	127	B2-U0-G2	8176	132	B2-U0-G2		2044	43	B1-U0-G1
			VSQ-N	8297	134	B3-U0-G1	8658	140	B3-U0-G1	9019	145	B3-U0-G1	9380	151	B3-U0-G1		2345	49	B1-U0-G0
			VSQ-M	8137	131	B3-U0-G2	8491	137	B3-U0-G2	8844	143	B3-U0-G2	9198	148	B3-U0-G2		2299	48	B2-U0-G1
			VSQ-W	7943	128	B3-U0-G2	8289	134	B3-U0-G2	8634	139	B4-U0-G2	8980	145	B4-U0-G2		2245	47	B2-U0-G1
			II-HS	5750	93	B1-U0-G2	6000	97	B1-U0-G2	6250	101	B1-U0-G2	6500	105	B1-U0-G2		1625	34	B0-U0-G0
			II-FR-HS	5849	94	B1-U0-G1	6103	98	B1-U0-G1	6357	103	B1-U0-G1	6611	107	B1-U0-G1		1653	35	B0-U0-G0
			III-M-HS	5817	94	B0-U0-G2	6069	98	B0-U0-G2	6322	102	B0-U0-G2	6575	106	B0-U0-G2		1644	34	B0-U0-G1
			III-W-HS	5694	92	B0-U0-G2	5941	96	B0-U0-G2	6189	100	B0-U0-G2	6436	104	B0-U0-G2		1609	34	B0-U0-G1
			IV-HS	6008	97	B0-U0-G2	6269	101	B0-U0-G2	6530	105	B0-U0-G2	6791	110	B0-U0-G2		1698	36	B0-U0-G1
			IV-FT-HS	5678	92	B0-U0-G2	5925	96	B0-U0-G2	6172	100	B0-U0-G2	6419	104	B0-U0-G2		1605	34	B0-U0-G1
36	700	82.6	II	9889	120	B2-U0-G2	10319	125	B2-U0-G2	10749	130	B2-U0-G2	11179	135	B2-U0-G2	N/A	N/A		
			II-FR	9955	121	B2-U0-G1	10388	126	B2-U0-G1	10820	131	B2-U0-G1	11253	136	B3-U0-G1				
			III-M	10061	122	B2-U0-G2	10499	127	B2-U0-G2	10936	132	B2-U0-G2	11374	138	B2-U0-G2				
			III-W	9342	113	B2-U0-G3	9748	118	B2-U0-G3	10154	123	B2-U0-G3	10560	128	B2-U0-G3				
			IV	9986	121	B2-U0-G2	10420	126	B2-U0-G2	10854	131	B2-U0-G2	11289	137	B2-U0-G2				
			IV-FT	9096	110	B2-U0-G3	9492	115	B2-U0-G3	9887	120	B2-U0-G3	10283	124	B2-U0-G3				
			VSQ-N	10437	126	B3-U0-G1	10890	132	B3-U0-G1	11344	137	B3-U0-G1	11798	143	B3-U0-G1				
			VSQ-M	10235	124	B3-U0-G2	10680	129	B4-U0-G2	11125	135	B4-U0-G2	11570	140	B4-U0-G2				
			VSQ-W	9990	121	B4-U0-G3	10425	126	B4-U0-G3	10859	131	B4-U0-G3	11294	137	B4-U0-G3				
			II-HS	7232	88	B1-U0-G2	7547	91	B1-U0-G2	7861	95	B1-U0-G2	8175	99	B1-U0-G2				
			II-FR-HS	7356	89	B1-U0-G1	7676	93	B1-U0-G1	7996	97	B1-U0-G1	8315	101	B1-U0-G1				
			III-M-HS	7316	89	B0-U0-G2	7634	92	B1-U0-G2	7952	96	B1-U0-G2	8270	100	B1-U0-G2				
			III-W-HS	7161	87	B0-U0-G2	7472	90	B0-U0-G2	7784	94	B0-U0-G2	8095	98	B1-U0-G2				
			IV-HS	7557	91	B1-U0-G2	7886	95	B1-U0-G2	8214	99	B1-U0-G2	8542	103	B1-U0-G2				
			IV-FT-HS	7142	86	B1-U0-G3	7453	90	B1-U0-G3	7763	94	B1-U0-G3	8074	98	B1-U0-G3				
36	875	103.1	II	11647	113	B2-U0-G2	12154	118	B2-U0-G2	12660	123	B2-U0-G2	13166	128	B2-U0-G2	N/A	N/A		
			II-FR	11725	114	B3-U0-G1	12235	119	B3-U0-G1	12744	124	B3-U0-G1	13254	129	B3-U0-G1				
			III-M	11851	115	B2-U0-G2	12366	120	B2-U0-G2	12881	125	B2-U0-G2	13396	130	B2-U0-G2				
			III-W	11003	107	B2-U0-G3	11482	111	B2-U0-G3	11960	116	B2-U0-G3	12438	121	B2-U0-G3				
			IV	11762	114	B2-U0-G2	12273	119	B2-U0-G2	12784	124	B2-U0-G2	13296	129	B2-U0-G2				
			IV-FT	10715	104	B2-U0-G3	11180	108	B2-U0-G3	11646	113	B2-U0-G3	12112	117	B2-U0-G3				
			VSQ-N	12294	119	B3-U0-G1	12828	124	B3-U0-G1	13363	130	B3-U0-G1	13897	135	B3-U0-G1				
			VSQ-M	12054	117	B4-U0-G2	12578	122	B4-U0-G2	13102	127	B4-U0-G2	13627	132	B4-U0-G2				
			VSQ-W	11767	114	B4-U0-G3	12278	119	B4-U0-G3	12790	124	B4-U0-G3	13302	129	B4-U0-G3				
			II-HS	8518	83	B1-U0-G2	8889	86	B1-U0-G2	9259	90	B1-U0-G2	9629	93	B1-U0-G2				
			II-FR-HS	8665	84	B1-U0-G1	9042	88	B1-U0-G1	9418	91	B1-U0-G1	9795	95	B1-U0-G1				
			III-M-HS	8618	84	B1-U0-G2	8992	87	B1-U0-G2	9367	91	B1-U0-G2	9741	94	B1-U0-G2				
			III-W-HS	8436	82	B1-U0-G2	8802	85	B1-U0-G2	9169	89	B1-U0-G2	9536	92	B1-U0-G3				
			IV-HS	8901	86	B1-U0-G2	9288	90	B1-U0-G2	9675	94	B1-U0-G2	10062	98	B1-U0-G2				
			IV-FT-HS	8413	82	B1-U0-G3	8778	85	B1-U0-G3	9144	89	B1-U0-G3	9510	92	B1-U0-G3				

IES File downloads for this product can be found at www.usalgt.com/downloads/asr.html

PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

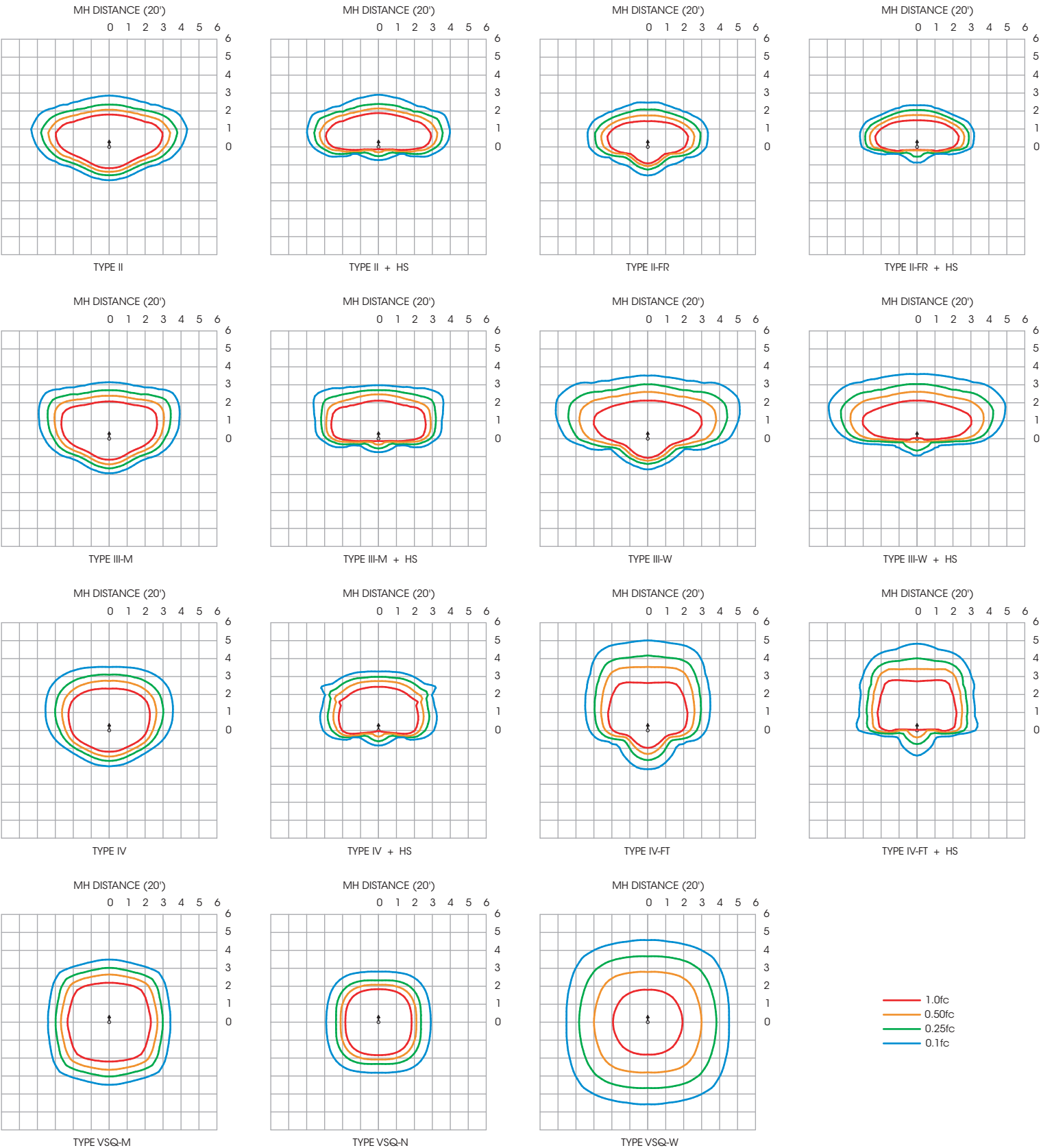
PAC18-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
48	350	53.6	II	7280	136	B2-U0-G2	7596	142	B2-U0-G2	7913	148	B2-U0-G2	8229	154	B2-U0-G2	41.3	2532	61	B1-U0-G1
			II-FR	7329	137	B2-U0-G1	7648	143	B2-U0-G1	7967	149	B2-U0-G1	8285	155	B2-U0-G1		2549	62	B1-U0-G1
			III-M	7407	138	B2-U0-G2	7729	144	B2-U0-G2	8052	150	B2-U0-G2	8374	156	B2-U0-G2		2577	62	B1-U0-G1
			III-W	6878	128	B1-U0-G2	7177	134	B1-U0-G2	7476	139	B1-U0-G2	7775	145	B1-U0-G2		2392	58	B1-U0-G1
			IV	7351	137	B2-U0-G2	7671	143	B2-U0-G2	7991	149	B2-U0-G2	8310	155	B2-U0-G2		2557	62	B1-U0-G1
			IV-FT	6697	125	B1-U0-G2	6988	130	B1-U0-G2	7279	136	B2-U0-G2	7570	141	B2-U0-G2		2329	56	B1-U0-G1
			VSQ-N	7685	143	B2-U0-G1	8019	150	B3-U0-G1	8353	156	B3-U0-G1	8687	162	B3-U0-G1		2673	65	B1-U0-G0
			VSQ-M	7534	141	B3-U0-G1	7862	147	B3-U0-G2	8190	153	B3-U0-G2	8517	159	B3-U0-G2		2621	63	B2-U0-G1
			VSQ-W	7355	137	B3-U0-G2	7674	143	B3-U0-G2	7994	149	B3-U0-G2	8314	155	B3-U0-G2		2558	62	B2-U0-G1
			II-HS	5324	99	B1-U0-G2	5556	104	B1-U0-G2	5787	108	B1-U0-G2	6019	112	B1-U0-G2		1852	45	B0-U0-G1
			II-FR-HS	5416	101	B0-U0-G1	5652	105	B1-U0-G1	5887	110	B1-U0-G1	6123	114	B1-U0-G1		1884	46	B0-U0-G0
			III-M-HS	5386	100	B0-U0-G2	5620	105	B0-U0-G2	5854	109	B0-U0-G2	6089	114	B0-U0-G2		1873	45	B0-U0-G1
			III-W-HS	5272	98	B0-U0-G2	5501	103	B0-U0-G2	5731	107	B0-U0-G2	5960	111	B0-U0-G2		1834	44	B0-U0-G1
			IV-HS	5563	104	B0-U0-G2	5805	108	B0-U0-G2	6047	113	B0-U0-G2	6288	117	B0-U0-G2		1935	47	B0-U0-G1
			IV-FT-HS	5258	98	B0-U0-G2	5487	102	B0-U0-G2	5715	107	B0-U0-G2	5944	111	B0-U0-G2		1829	44	B0-U0-G1
48	525	80.7	II	10351	128	B2-U0-G2	10801	134	B2-U0-G2	11251	139	B2-U0-G2	11701	145	B2-U0-G2	62.1	2925	47	B1-U0-G1
			II-FR	10420	129	B2-U0-G1	10873	135	B2-U0-G1	11326	140	B3-U0-G1	11779	146	B3-U0-G1		2945	47	B1-U0-G1
			III-M	10532	131	B2-U0-G2	10990	136	B2-U0-G2	11448	142	B2-U0-G2	11906	148	B2-U0-G2		2976	48	B1-U0-G1
			III-W	9780	121	B2-U0-G3	10205	126	B2-U0-G3	10630	132	B2-U0-G3	11055	137	B2-U0-G3		2764	45	B1-U0-G1
			IV	10453	130	B2-U0-G2	10907	135	B2-U0-G2	11362	141	B2-U0-G2	11816	146	B2-U0-G2		2954	48	B1-U0-G1
			IV-FT	9522	118	B2-U0-G3	9936	123	B2-U0-G3	10350	128	B2-U0-G3	10764	133	B2-U0-G3		2691	43	B1-U0-G1
			VSQ-N	10925	135	B3-U0-G1	11400	141	B3-U0-G1	11875	147	B3-U0-G1	12350	153	B3-U0-G1		3088	50	B1-U0-G0
			VSQ-M	10713	133	B4-U0-G2	11178	139	B4-U0-G2	11644	144	B4-U0-G2	12110	150	B4-U0-G2		3027	49	B2-U0-G1
			VSQ-W	10459	130	B4-U0-G3	10913	135	B4-U0-G3	11368	141	B4-U0-G3	11823	147	B4-U0-G3		2955	48	B2-U0-G1
			II-HS	7570	94	B1-U0-G2	7900	98	B1-U0-G2	8229	102	B1-U0-G2	8558	106	B1-U0-G2		2139	34	B0-U0-G1
			II-FR-HS	7700	95	B1-U0-G1	8035	100	B1-U0-G1	8370	104	B1-U0-G1	8705	108	B1-U0-G1		2176	35	B0-U0-G0
			III-M-HS	7658	95	B1-U0-G2	7991	99	B1-U0-G2	8324	103	B1-U0-G2	8657	107	B1-U0-G2		2164	35	B0-U0-G1
			III-W-HS	7496	93	B0-U0-G2	7822	97	B0-U0-G2	8148	101	B1-U0-G2	8474	105	B1-U0-G2		2118	34	B0-U0-G1
			IV-HS	7910	98	B1-U0-G2	8254	102	B1-U0-G2	8598	107	B1-U0-G2	8942	111	B1-U0-G2		2235	36	B0-U0-G1
			IV-FT-HS	7476	93	B1-U0-G3	7801	97	B1-U0-G3	8126	101	B1-U0-G3	8451	105	B1-U0-G3		2113	34	B0-U0-G1
48	700	108.0	II	13020	121	B2-U0-G2	13586	126	B2-U0-G2	14152	131	B2-U0-G2	14718	136	B3-U0-G2	N/A	N/A		
			II-FR	13106	121	B3-U0-G1	13676	127	B3-U0-G1	14246	132	B3-U0-G1	14816	137	B3-U0-G2				
			III-M	13247	123	B2-U0-G2	13823	128	B2-U0-G2	14399	133	B2-U0-G2	14975	139	B2-U0-G2				
			III-W	12299	114	B2-U0-G3	12834	119	B2-U0-G3	13369	124	B2-U0-G3	13903	129	B2-U0-G3				
			IV	13147	122	B2-U0-G2	13719	127	B2-U0-G2	14291	132	B2-U0-G2	14862	138	B2-U0-G2				
			IV-FT	11976	111	B2-U0-G3	12497	116	B2-U0-G3	13017	121	B2-U0-G3	13538	125	B2-U0-G3				
			VSQ-N	13741	127	B3-U0-G1	14338	133	B3-U0-G1	14936	138	B3-U0-G1	15533	144	B3-U0-G1				
			VSQ-M	13475	125	B4-U0-G2	14061	130	B4-U0-G2	14647	136	B4-U0-G2	15233	141	B4-U0-G2				
			VSQ-W	13153	122	B4-U0-G3	13725	127	B4-U0-G3	14297	132	B4-U0-G3	14869	138	B4-U0-G3				
			II-HS	9522	88	B1-U0-G2	9936	92	B1-U0-G2	10350	96	B1-U0-G2	10763	100	B1-U0-G2				
			II-FR-HS	9685	90	B1-U0-G1	10106	94	B1-U0-G1	10527	97	B1-U0-G1	10948	101	B1-U0-G1				
			III-M-HS	9632	89	B1-U0-G2	10051	93	B1-U0-G2	10469	97	B1-U0-G2	10888	101	B1-U0-G2				
			III-W-HS	9428	87	B1-U0-G3	9838	91	B1-U0-G3	10248	95	B1-U0-G3	10658	99	B1-U0-G3				
			IV-HS	9950	92	B1-U0-G2	10382	96	B1-U0-G2	10815	100	B1-U0-G2	11247	104	B1-U0-G2				
			IV-FT-HS	9403	87	B1-U0-G3	9812	91	B1-U0-G3	10221	95	B1-U0-G3	10630	98	B1-U0-G3				
48	875	134.7	II	15335	114	B3-U0-G2	16001	119	B3-U0-G3	16668	124	B3-U0-G3	17335	129	B3-U0-G3	N/A	N/A		
			II-FR	15437	115	B3-U0-G2	16108	120	B3-U0-G2	16779	125	B3-U0-G2	17450	130	B3-U0-G2				
			III-M	15602	116	B3-U0-G2	16281	121	B3-U0-G3	16959	126	B3-U0-G3	17637	131	B3-U0-G3				
			III-W	14487	108	B2-U0-G3	15117	112	B2-U0-G3	15746	117	B3-U0-G3	16376	122	B3-U0-G3				
			IV	15485	115	B3-U0-G2	16159	120	B3-U0-G2	16832	125	B3-U0-G3	17505	130	B3-U0-G3				
			IV-FT	14107	105	B2-U0-G3	14720	109	B3-U0-G3	15333	114	B3-U0-G3	15947	118	B3-U0-G3				
			VSQ-N	16186	120	B4-U0-G1	16889	125	B4-U0-G2	17593	131	B4-U0-G2	18297	136	B4-U0-G2				
			VSQ-M	15871	118	B4-U0-G2	16561	123	B4-U0-G2	17251	128	B4-U0-G2	17941	133	B4-U0-G2				
			VSQ-W	15492	115	B4-U0-G3	16166	120	B4-U0-G3	16839	125	B4-U0-G3	17513	130	B5-U0-G3				
			II-HS	11215	83	B1-U0-G2	11703	87	B1-U0-G2	12190	90	B1-U0-G2	12678	94	B1-U0-G2				
			II-FR-HS	11408	85	B1-U0-G2	11904	88	B1-U0-G2	12400	92	B1-U0-G2	12896	96	B1-U0-G2				
			III-M-HS	11346	84	B1-U0-G2	11839	88	B1-U0-G3	12332	92	B1-U0-G3	12826	95	B1-U0-G3				
			III-W-HS	11106	82	B1-U0-G3	11589	86	B1-U0-G3	12072	90	B1-U0-G3	12555	93	B1-U0-G3				
			IV-HS	11719	87	B1-U0-G2	12229	91	B1-U0-G2	12738	95	B1-U0-G2	13248	98	B1-U0-G3				
			IV-FT-HS	11076	82	B1-U0-G3	11557	86	B1-U0-G3	12039	89	B1-U0-G3	12521	93	B1-U0-G3				

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PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

PAC24-PT-PLED-80LED-525mA-40K - 20' Mounting Height (18' Pole)



PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

PAC24-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
36	350	41.3	II	5529	134	B1-U0-G1	5769	140	B2-U0-G1	6010	146	B2-U0-G1	6250	151	B2-U0-G1	31.8	1923	60	B1-U0-G1
			II-FR	5567	135	B1-U0-G1	5809	141	B2-U0-G1	6051	147	B2-U0-G1	6293	152	B2-U0-G1		1936	61	B1-U0-G0
			III-M	5626	136	B1-U0-G1	5871	142	B1-U0-G2	6115	148	B1-U0-G2	6360	154	B2-U0-G2		1957	62	B1-U0-G1
			III-W	5224	126	B1-U0-G2	5451	132	B1-U0-G2	5678	137	B1-U0-G2	5905	143	B1-U0-G2		1817	57	B1-U0-G1
			IV	5584	135	B1-U0-G1	5826	141	B1-U0-G1	6069	147	B2-U0-G2	6312	153	B2-U0-G2		1942	61	B1-U0-G1
			IV-FT	5086	123	B1-U0-G2	5307	129	B1-U0-G2	5529	134	B1-U0-G2	5750	139	B1-U0-G2		1769	56	B1-U0-G1
			VSQ-N	5837	141	B2-U0-G1	6091	147	B2-U0-G1	6344	154	B2-U0-G1	6598	160	B2-U0-G1		2030	64	B1-U0-G0
			VSQ-M	5723	139	B3-U0-G1	5972	145	B3-U0-G1	6221	151	B3-U0-G1	6469	157	B3-U0-G1		1991	63	B1-U0-G0
			VSQ-W	5586	135	B3-U0-G2	5829	141	B3-U0-G2	6072	147	B3-U0-G2	6315	153	B3-U0-G2		1943	61	B2-U0-G1
			II-HS	4044	98	B0-U0-G1	4220	102	B0-U0-G1	4395	106	B0-U0-G1	4571	111	B1-U0-G1		1407	44	B0-U0-G0
			II-FR-HS	4114	100	B0-U0-G1	4293	104	B0-U0-G1	4471	108	B0-U0-G1	4650	113	B0-U0-G1		1431	45	B0-U0-G0
			III-M-HS	4091	99	B0-U0-G1	4269	103	B0-U0-G2	4447	108	B0-U0-G2	4624	112	B0-U0-G2		1423	45	B0-U0-G0
			III-W-HS	4005	97	B0-U0-G2	4178	101	B0-U0-G2	4353	105	B0-U0-G2	4527	110	B0-U0-G2		1393	44	B0-U0-G1
			IV-HS	4225	102	B0-U0-G1	4409	107	B0-U0-G1	4592	111	B0-U0-G1	4776	116	B0-U0-G2		1470	46	B0-U0-G0
			IV-FT-HS	3994	97	B0-U0-G2	4167	101	B0-U0-G2	4341	105	B0-U0-G2	4515	109	B0-U0-G2		1389	44	B0-U0-G1
36	525	62.0	II	7862	127	B2-U0-G2	8204	132	B2-U0-G2	8545	138	B2-U0-G2	8887	143	B2-U0-G2	47.7	2222	47	B1-U0-G1
			II-FR	7915	128	B2-U0-G1	8259	133	B2-U0-G1	8603	139	B2-U0-G1	8947	144	B2-U0-G1		2237	47	B1-U0-G0
			III-M	7999	129	B2-U0-G2	8347	135	B2-U0-G2	8695	140	B2-U0-G2	9043	146	B2-U0-G2		2261	47	B1-U0-G1
			III-W	7428	120	B1-U0-G2	7751	125	B1-U0-G2	8074	130	B2-U0-G2	8397	135	B2-U0-G2		2099	44	B1-U0-G1
			IV	7939	128	B2-U0-G2	8284	134	B2-U0-G2	8630	139	B2-U0-G2	8975	145	B2-U0-G2		2244	47	B1-U0-G1
			IV-FT	7232	117	B2-U0-G2	7547	122	B2-U0-G2	7861	127	B2-U0-G2	8176	132	B2-U0-G2		2044	43	B1-U0-G1
			VSQ-N	8297	134	B3-U0-G1	8658	140	B3-U0-G1	9019	145	B3-U0-G1	9380	151	B3-U0-G1		2345	49	B1-U0-G0
			VSQ-M	8137	131	B3-U0-G2	8491	137	B3-U0-G2	8844	143	B3-U0-G2	9198	148	B3-U0-G2		2299	48	B2-U0-G1
			VSQ-W	7943	128	B3-U0-G2	8289	134	B3-U0-G2	8634	139	B4-U0-G2	8980	145	B4-U0-G2		2245	47	B2-U0-G1
			II-HS	5750	93	B1-U0-G2	6000	97	B1-U0-G2	6250	101	B1-U0-G2	6500	105	B1-U0-G2		1625	34	B0-U0-G0
			II-FR-HS	5849	94	B1-U0-G1	6103	98	B1-U0-G1	6357	103	B1-U0-G1	6611	107	B1-U0-G1		1653	35	B0-U0-G0
			III-M-HS	5817	94	B0-U0-G2	6069	98	B0-U0-G2	6322	102	B0-U0-G2	6575	106	B0-U0-G2		1644	34	B0-U0-G1
			III-W-HS	5694	92	B0-U0-G2	5941	96	B0-U0-G2	6189	100	B0-U0-G2	6436	104	B0-U0-G2		1609	34	B0-U0-G1
			IV-HS	6008	97	B0-U0-G2	6269	101	B0-U0-G2	6530	105	B0-U0-G2	6791	110	B0-U0-G2		1698	36	B0-U0-G1
			IV-FT-HS	5678	92	B0-U0-G2	5925	96	B0-U0-G2	6172	100	B0-U0-G2	6419	104	B0-U0-G2		1605	34	B0-U0-G1
36	700	82.6	II	9889	120	B2-U0-G2	10319	125	B2-U0-G2	10749	130	B2-U0-G2	11179	135	B2-U0-G2	N/A	N/A		
			II-FR	9955	121	B2-U0-G1	10388	126	B2-U0-G1	10820	131	B2-U0-G1	11253	136	B3-U0-G1				
			III-M	10061	122	B2-U0-G2	10499	127	B2-U0-G2	10936	132	B2-U0-G2	11374	138	B2-U0-G2				
			III-W	9342	113	B2-U0-G3	9748	118	B2-U0-G3	10154	123	B2-U0-G3	10560	128	B2-U0-G3				
			IV	9986	121	B2-U0-G2	10420	126	B2-U0-G2	10854	131	B2-U0-G2	11289	137	B2-U0-G2				
			IV-FT	9096	110	B2-U0-G3	9492	115	B2-U0-G3	9887	120	B2-U0-G3	10283	124	B2-U0-G3				
			VSQ-N	10437	126	B3-U0-G1	10890	132	B3-U0-G1	11344	137	B3-U0-G1	11798	143	B3-U0-G1				
			VSQ-M	10235	124	B3-U0-G2	10680	129	B4-U0-G2	11125	135	B4-U0-G2	11570	140	B4-U0-G2				
			VSQ-W	9990	121	B4-U0-G3	10425	126	B4-U0-G3	10859	131	B4-U0-G3	11294	137	B4-U0-G3				
			II-HS	7232	88	B1-U0-G2	7547	91	B1-U0-G2	7861	95	B1-U0-G2	8175	99	B1-U0-G2				
			II-FR-HS	7356	89	B1-U0-G1	7676	93	B1-U0-G1	7996	97	B1-U0-G1	8315	101	B1-U0-G1				
			III-M-HS	7316	89	B0-U0-G2	7634	92	B1-U0-G2	7952	96	B1-U0-G2	8270	100	B1-U0-G2				
			III-W-HS	7161	87	B0-U0-G2	7472	90	B0-U0-G2	7784	94	B0-U0-G2	8095	98	B1-U0-G2				
			IV-HS	7557	91	B1-U0-G2	7886	95	B1-U0-G2	8214	99	B1-U0-G2	8542	103	B1-U0-G2				
			IV-FT-HS	7142	86	B1-U0-G3	7453	90	B1-U0-G3	7763	94	B1-U0-G3	8074	98	B1-U0-G3				
36	875	103.1	II	11647	113	B2-U0-G2	12154	118	B2-U0-G2	12660	123	B2-U0-G2	13166	128	B2-U0-G2	N/A	N/A		
			II-FR	11725	114	B3-U0-G1	12235	119	B3-U0-G1	12744	124	B3-U0-G1	13254	129	B3-U0-G1				
			III-M	11851	115	B2-U0-G2	12366	120	B2-U0-G2	12881	125	B2-U0-G2	13396	130	B2-U0-G2				
			III-W	11003	107	B2-U0-G3	11482	111	B2-U0-G3	11960	116	B2-U0-G3	12438	121	B2-U0-G3				
			IV	11762	114	B2-U0-G2	12273	119	B2-U0-G2	12784	124	B2-U0-G2	13296	129	B2-U0-G2				
			IV-FT	10715	104	B2-U0-G3	11180	108	B2-U0-G3	11646	113	B2-U0-G3	12112	117	B2-U0-G3				
			VSQ-N	12294	119	B3-U0-G1	12828	124	B3-U0-G1	13363	130	B3-U0-G1	13897	135	B3-U0-G1				
			VSQ-M	12054	117	B4-U0-G2	12578	122	B4-U0-G2	13102	127	B4-U0-G2	13627	132	B4-U0-G2				
			VSQ-W	11767	114	B4-U0-G3	12278	119	B4-U0-G3	12790	124	B4-U0-G3	13302	129	B4-U0-G3				
			II-HS	8518	83	B1-U0-G2	8889	86	B1-U0-G2	9259	90	B1-U0-G2	9629	93	B1-U0-G2				
			II-FR-HS	8665	84	B1-U0-G1	9042	88	B1-U0-G1	9418	91	B1-U0-G1	9795	95	B1-U0-G1				
			III-M-HS	8618	84	B1-U0-G2	8992	87	B1-U0-G2	9367	91	B1-U0-G2	9741	94	B1-U0-G2				
			III-W-HS	8436	82	B1-U0-G2	8802	85	B1-U0-G2	9169	89	B1-U0-G2	9536	92	B1-U0-G3				
			IV-HS	8901	86	B1-U0-G2	9288	90	B1-U0-G2	9675	94	B1-U0-G2	10062	98	B1-U0-G2				
			IV-FT-HS	8413	82	B1-U0-G3	8778	85	B1-U0-G3	9144	89	B1-U0-G3	9510	92	B1-U0-G3				

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PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

PAC24-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
48	350	53.6	II	7280	136	B2-U0-G2	7596	142	B2-U0-G2	7913	148	B2-U0-G2	8229	154	B2-U0-G2	41.3	2532	61	B1-U0-G1
			II-FR	7329	137	B2-U0-G1	7648	143	B2-U0-G1	7967	149	B2-U0-G1	8285	155	B2-U0-G1		2549	62	B1-U0-G1
			III-M	7407	138	B2-U0-G2	7729	144	B2-U0-G2	8052	150	B2-U0-G2	8374	156	B2-U0-G2		2577	62	B1-U0-G1
			III-W	6878	128	B1-U0-G2	7177	134	B1-U0-G2	7476	139	B1-U0-G2	7775	145	B1-U0-G2		2392	58	B1-U0-G1
			IV	7351	137	B2-U0-G2	7671	143	B2-U0-G2	7991	149	B2-U0-G2	8310	155	B2-U0-G2		2557	62	B1-U0-G1
			IV-FT	6697	125	B1-U0-G2	6988	130	B1-U0-G2	7279	136	B2-U0-G2	7570	141	B2-U0-G2		2329	56	B1-U0-G1
			VSQ-N	7685	143	B2-U0-G1	8019	150	B3-U0-G1	8353	156	B3-U0-G1	8687	162	B3-U0-G1		2673	65	B1-U0-G0
			VSQ-M	7534	141	B3-U0-G1	7862	147	B3-U0-G2	8190	153	B3-U0-G2	8517	159	B3-U0-G2		2621	63	B2-U0-G1
			VSQ-W	7355	137	B3-U0-G2	7674	143	B3-U0-G2	7994	149	B3-U0-G2	8314	155	B3-U0-G2		2558	62	B2-U0-G1
			II-HS	5324	99	B1-U0-G2	5556	104	B1-U0-G2	5787	108	B1-U0-G2	6019	112	B1-U0-G2		1852	45	B0-U0-G1
			II-FR-HS	5416	101	B0-U0-G1	5652	105	B1-U0-G1	5887	110	B1-U0-G1	6123	114	B1-U0-G1		1884	46	B0-U0-G0
			III-M-HS	5386	100	B0-U0-G2	5620	105	B0-U0-G2	5854	109	B0-U0-G2	6089	114	B0-U0-G2		1873	45	B0-U0-G1
			III-W-HS	5272	98	B0-U0-G2	5501	103	B0-U0-G2	5731	107	B0-U0-G2	5960	111	B0-U0-G2		1834	44	B0-U0-G1
			IV-HS	5563	104	B0-U0-G2	5805	108	B0-U0-G2	6047	113	B0-U0-G2	6288	117	B0-U0-G2		1935	47	B0-U0-G1
			IV-FT-HS	5258	98	B0-U0-G2	5487	102	B0-U0-G2	5715	107	B0-U0-G2	5944	111	B0-U0-G2		1829	44	B0-U0-G1
48	525	80.7	II	10351	128	B2-U0-G2	10801	134	B2-U0-G2	11251	139	B2-U0-G2	11701	145	B2-U0-G2	62.1	2925	47	B1-U0-G1
			II-FR	10420	129	B2-U0-G1	10873	135	B2-U0-G1	11326	140	B3-U0-G1	11779	146	B3-U0-G1		2945	47	B1-U0-G1
			III-M	10532	131	B2-U0-G2	10990	136	B2-U0-G2	11448	142	B2-U0-G2	11906	148	B2-U0-G2		2976	48	B1-U0-G1
			III-W	9780	121	B2-U0-G3	10205	126	B2-U0-G3	10630	132	B2-U0-G3	11055	137	B2-U0-G3		2764	45	B1-U0-G1
			IV	10453	130	B2-U0-G2	10907	135	B2-U0-G2	11362	141	B2-U0-G2	11816	146	B2-U0-G2		2954	48	B1-U0-G1
			IV-FT	9522	118	B2-U0-G3	9936	123	B2-U0-G3	10350	128	B2-U0-G3	10764	133	B2-U0-G3		2691	43	B1-U0-G1
			VSQ-N	10925	135	B3-U0-G1	11400	141	B3-U0-G1	11875	147	B3-U0-G1	12350	153	B3-U0-G1		3088	50	B1-U0-G0
			VSQ-M	10713	133	B4-U0-G2	11178	139	B4-U0-G2	11644	144	B4-U0-G2	12110	150	B4-U0-G2		3027	49	B2-U0-G1
			VSQ-W	10459	130	B4-U0-G3	10913	135	B4-U0-G3	11368	141	B4-U0-G3	11823	147	B4-U0-G3		2955	48	B2-U0-G1
			II-HS	7570	94	B1-U0-G2	7900	98	B1-U0-G2	8229	102	B1-U0-G2	8558	106	B1-U0-G2		2139	34	B0-U0-G1
			II-FR-HS	7700	95	B1-U0-G1	8035	100	B1-U0-G1	8370	104	B1-U0-G1	8705	108	B1-U0-G1		2176	35	B0-U0-G0
			III-M-HS	7658	95	B1-U0-G2	7991	99	B1-U0-G2	8324	103	B1-U0-G2	8657	107	B1-U0-G2		2164	35	B0-U0-G1
			III-W-HS	7496	93	B0-U0-G2	7822	97	B0-U0-G2	8148	101	B1-U0-G2	8474	105	B1-U0-G2		2118	34	B0-U0-G1
			IV-HS	7910	98	B1-U0-G2	8254	102	B1-U0-G2	8598	107	B1-U0-G2	8942	111	B1-U0-G2		2235	36	B0-U0-G1
			IV-FT-HS	7476	93	B1-U0-G3	7801	97	B1-U0-G3	8126	101	B1-U0-G3	8451	105	B1-U0-G3		2113	34	B0-U0-G1
48	700	108.0	II	13020	121	B2-U0-G2	13586	126	B2-U0-G2	14152	131	B2-U0-G2	14718	136	B3-U0-G2	N/A	N/A		
			II-FR	13106	121	B3-U0-G1	13676	127	B3-U0-G1	14246	132	B3-U0-G1	14816	137	B3-U0-G2				
			III-M	13247	123	B2-U0-G2	13823	128	B2-U0-G2	14399	133	B2-U0-G2	14975	139	B2-U0-G2				
			III-W	12299	114	B2-U0-G3	12834	119	B2-U0-G3	13369	124	B2-U0-G3	13903	129	B2-U0-G3				
			IV	13147	122	B2-U0-G2	13719	127	B2-U0-G2	14291	132	B2-U0-G2	14862	138	B2-U0-G2				
			IV-FT	11976	111	B2-U0-G3	12497	116	B2-U0-G3	13017	121	B2-U0-G3	13538	125	B2-U0-G3				
			VSQ-N	13741	127	B3-U0-G1	14338	133	B3-U0-G1	14936	138	B3-U0-G1	15533	144	B3-U0-G1				
			VSQ-M	13475	125	B4-U0-G2	14061	130	B4-U0-G2	14647	136	B4-U0-G2	15233	141	B4-U0-G2				
			VSQ-W	13153	122	B4-U0-G3	13725	127	B4-U0-G3	14297	132	B4-U0-G3	14869	138	B4-U0-G3				
			II-HS	9522	88	B1-U0-G2	9936	92	B1-U0-G2	10350	96	B1-U0-G2	10763	100	B1-U0-G2				
			II-FR-HS	9685	90	B1-U0-G1	10106	94	B1-U0-G1	10527	97	B1-U0-G1	10948	101	B1-U0-G1				
			III-M-HS	9632	89	B1-U0-G2	10051	93	B1-U0-G2	10469	97	B1-U0-G2	10888	101	B1-U0-G2				
			III-W-HS	9428	87	B1-U0-G3	9838	91	B1-U0-G3	10248	95	B1-U0-G3	10658	99	B1-U0-G3				
			IV-HS	9950	92	B1-U0-G2	10382	96	B1-U0-G2	10815	100	B1-U0-G2	11247	104	B1-U0-G2				
			IV-FT-HS	9403	87	B1-U0-G3	9812	91	B1-U0-G3	10221	95	B1-U0-G3	10630	98	B1-U0-G3				
48	875	134.7	II	15335	114	B3-U0-G2	16001	119	B3-U0-G3	16668	124	B3-U0-G3	17335	129	B3-U0-G3	N/A	N/A		
			II-FR	15437	115	B3-U0-G2	16108	120	B3-U0-G2	16779	125	B3-U0-G2	17450	130	B3-U0-G2				
			III-M	15602	116	B3-U0-G2	16281	121	B3-U0-G3	16959	126	B3-U0-G3	17637	131	B3-U0-G3				
			III-W	14487	108	B2-U0-G3	15117	112	B2-U0-G3	15746	117	B3-U0-G3	16376	122	B3-U0-G3				
			IV	15485	115	B3-U0-G2	16159	120	B3-U0-G2	16832	125	B3-U0-G3	17505	130	B3-U0-G3				
			IV-FT	14107	105	B2-U0-G3	14720	109	B3-U0-G3	15333	114	B3-U0-G3	15947	118	B3-U0-G3				
			VSQ-N	16186	120	B4-U0-G1	16889	125	B4-U0-G2	17593	131	B4-U0-G2	18297	136	B4-U0-G2				
			VSQ-M	15871	118	B4-U0-G2	16561	123	B4-U0-G2	17251	128	B4-U0-G2	17941	133	B4-U0-G2				
			VSQ-W	15492	115	B4-U0-G3	16166	120	B4-U0-G3	16839	125	B4-U0-G3	17513	130	B5-U0-G3				
			II-HS	11215	83	B1-U0-G2	11703	87	B1-U0-G2	12190	90	B1-U0-G2	12678	94	B1-U0-G2				
			II-FR-HS	11408	85	B1-U0-G2	11904	88	B1-U0-G2	12400	92	B1-U0-G2	12896	96	B1-U0-G2				
			III-M-HS	11346	84	B1-U0-G2	11839	88	B1-U0-G3	12332	92	B1-U0-G3	12826	95	B1-U0-G3				
			III-W-HS	11106	82	B1-U0-G3	11589	86	B1-U0-G3	12072	90	B1-U0-G3	12555	93	B1-U0-G3				
			IV-HS	11719	87	B1-U0-G2	12229	91	B1-U0-G2	12738	95	B1-U0-G2	13248	98	B1-U0-G3				
			IV-FT-HS	11076	82	B1-U0-G3	11557	86	B1-U0-G3	12039	89	B1-U0-G3	12521	93	B1-U0-G3				

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PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED)

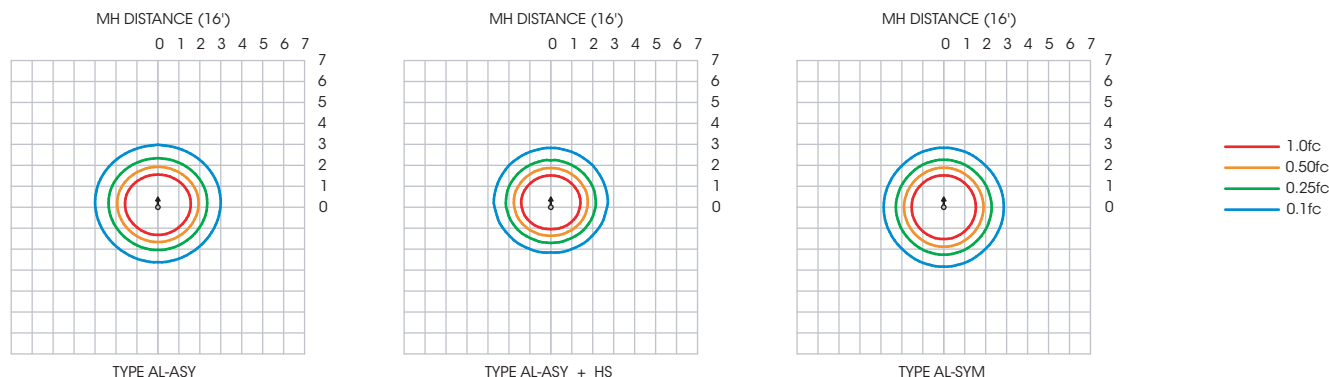
PAC24-PT-PLED																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
80	350	85.8	II	11652	136	B2-U0-G2	12159	142	B2-U0-G2	12665	148	B2-U0-G2	13172	154	B2-U0-G2	66.1	4053	61	B1-U0-G1
			II-FR	11730	137	B3-U0-G1	12240	143	B3-U0-G1	12750	149	B3-U0-G1	13260	155	B3-U0-G1		4080	62	B1-U0-G1
			III-M	11856	138	B2-U0-G2	12371	144	B2-U0-G2	12887	150	B2-U0-G2	13403	156	B2-U0-G2		4124	62	B1-U0-G1
			III-W	11008	128	B2-U0-G3	11487	134	B2-U0-G3	11965	139	B2-U0-G3	12444	145	B2-U0-G3		3829	58	B1-U0-G1
			IV	11767	137	B2-U0-G2	12279	143	B2-U0-G2	12790	149	B2-U0-G2	13302	155	B2-U0-G2		4093	62	B1-U0-G1
			IV-FT	10719	125	B2-U0-G3	11185	130	B2-U0-G3	11651	136	B2-U0-G3	12117	141	B2-U0-G3		3728	56	B1-U0-G2
			VSQ-N	12299	143	B3-U0-G1	12833	150	B3-U0-G1	13368	156	B3-U0-G1	13903	162	B3-U0-G1		4278	65	B2-U0-G0
			VSQ-M	12060	141	B4-U0-G2	12584	147	B4-U0-G2	13109	153	B4-U0-G2	13633	159	B4-U0-G2		4195	63	B2-U0-G1
			VSQ-W	11772	137	B4-U0-G3	12284	143	B4-U0-G3	12796	149	B4-U0-G3	13308	155	B4-U0-G3		4095	62	B3-U0-G1
			II-HS	8522	99	B1-U0-G2	8892	104	B1-U0-G2	9263	108	B1-U0-G2	9633	112	B1-U0-G2		2964	45	B0-U0-G1
			II-FR-HS	8669	101	B1-U0-G1	9046	105	B1-U0-G1	9422	110	B1-U0-G1	9799	114	B1-U0-G1		3015	46	B0-U0-G0
			III-M-HS	8622	100	B1-U0-G2	8997	105	B1-U0-G2	9371	109	B1-U0-G2	9746	114	B1-U0-G2		2999	45	B0-U0-G1
			III-W-HS	8439	98	B1-U0-G2	8806	103	B1-U0-G2	9173	107	B1-U0-G2	9540	111	B1-U0-G3		2935	44	B0-U0-G1
			IV-HS	8905	104	B1-U0-G2	9292	108	B1-U0-G2	9679	113	B1-U0-G2	10066	117	B1-U0-G2		3097	47	B0-U0-G1
			IV-FT-HS	8416	98	B1-U0-G3	8782	102	B1-U0-G3	9148	107	B1-U0-G3	9514	111	B1-U0-G3		2927	44	B0-U0-G1
80	525	129.7	II	16744	129	B3-U0-G3	17472	135	B3-U0-G3	18200	140	B3-U0-G3	18928	146	B3-U0-G3	99.9	4732	47	B1-U0-G1
			II-FR	16857	130	B3-U0-G2	17589	136	B3-U0-G2	18322	141	B3-U0-G2	19055	147	B3-U0-G2		4764	48	B1-U0-G1
			III-M	17037	131	B3-U0-G3	17778	137	B3-U0-G3	18518	143	B3-U0-G3	19259	148	B3-U0-G3		4815	48	B1-U0-G1
			III-W	15819	122	B3-U0-G3	16507	127	B3-U0-G3	17195	133	B3-U0-G3	17882	138	B3-U0-G3		4471	45	B1-U0-G2
			IV	16909	130	B3-U0-G3	17644	136	B3-U0-G3	18379	142	B3-U0-G3	19114	147	B3-U0-G3		4779	48	B1-U0-G1
			IV-FT	15403	119	B3-U0-G3	16073	124	B3-U0-G4	16742	129	B3-U0-G4	17412	134	B3-U0-G4		4353	44	B1-U0-G2
			VSQ-N	17673	136	B4-U0-G2	18441	142	B4-U0-G2	19210	148	B4-U0-G2	19978	154	B4-U0-G2		4994	50	B2-U0-G1
			VSQ-M	17331	134	B4-U0-G2	18084	139	B4-U0-G2	18837	145	B4-U0-G2	19591	151	B4-U0-G2		4898	49	B3-U0-G1
			VSQ-W	16917	130	B5-U0-G3	17652	136	B5-U0-G3	18387	142	B5-U0-G3	19123	147	B5-U0-G3		4781	48	B3-U0-G2
			II-HS	12246	94	B1-U0-G2	12778	99	B1-U0-G2	13311	103	B1-U0-G3	13843	107	B1-U0-G3		3461	35	B0-U0-G1
			II-FR-HS	12457	96	B1-U0-G2	12998	100	B1-U0-G2	13540	104	B1-U0-G2	14081	109	B1-U0-G2		3520	35	B0-U0-G1
			III-M-HS	12389	96	B1-U0-G3	12928	100	B1-U0-G3	13466	104	B1-U0-G3	14005	108	B1-U0-G3		3501	35	B0-U0-G1
			III-W-HS	12127	93	B1-U0-G3	12654	98	B1-U0-G3	13181	102	B1-U0-G3	13708	106	B1-U0-G3		3427	34	B0-U0-G1
			IV-HS	12797	99	B1-U0-G2	13353	103	B1-U0-G3	13909	107	B1-U0-G3	14465	112	B1-U0-G3		3616	36	B0-U0-G1
			IV-FT-HS	12093	93	B1-U0-G3	12619	97	B1-U0-G3	13145	101	B1-U0-G3	13671	105	B1-U0-G3		3418	34	B0-U0-G2
80	700	173.5	II	21195	122	B3-U0-G3	22116	127	B3-U0-G3	23038	133	B3-U0-G3	23960	138	B3-U0-G3	N/A	N/A		
			II-FR	21337	123	B3-U0-G2	22265	128	B3-U0-G2	23193	134	B3-U0-G2	24121	139	B3-U0-G2				
			III-M	21566	124	B3-U0-G3	22504	130	B3-U0-G3	23441	135	B3-U0-G3	24379	141	B3-U0-G4				
			III-W	20024	115	B3-U0-G4	20894	120	B3-U0-G4	21765	125	B3-U0-G4	22636	130	B3-U0-G4				
			IV	21404	123	B3-U0-G3	22335	129	B3-U0-G3	23265	134	B3-U0-G3	24196	139	B3-U0-G3				
			IV-FT	19498	112	B3-U0-G4	20346	117	B3-U0-G4	21193	122	B3-U0-G4	22041	127	B3-U0-G4				
			VSQ-N	22371	129	B4-U0-G2	23343	135	B4-U0-G2	24316	140	B4-U0-G2	25289	146	B4-U0-G2				
			VSQ-M	21937	126	B5-U0-G3	22891	132	B5-U0-G3	23845	137	B5-U0-G3	24799	143	B5-U0-G3				
			VSQ-W	21413	123	B5-U0-G4	22344	129	B5-U0-G4	23275	134	B5-U0-G4	24206	140	B5-U0-G4				
			II-HS	15501	89	B1-U0-G3	16175	93	B1-U0-G3	16849	97	B1-U0-G3	17523	101	B1-U0-G3				
			II-FR-HS	15768	91	B1-U0-G2	16454	95	B1-U0-G2	17139	99	B1-U0-G2	17824	103	B1-U0-G2				
			III-M-HS	15683	90	B1-U0-G3	16365	94	B1-U0-G3	17046	98	B1-U0-G3	17728	102	B1-U0-G4				
			III-W-HS	15350	88	B1-U0-G4	16018	92	B1-U0-G4	16685	96	B1-U0-G4	17353	100	B1-U0-G4				
			IV-HS	16198	93	B1-U0-G3	16902	97	B1-U0-G3	17606	101	B1-U0-G3	18310	106	B1-U0-G3				
			IV-FT-HS	15308	88	B1-U0-G4	15974	92	B1-U0-G4	16639	96	B1-U0-G4	17305	100	B1-U0-G4				
80	875	221.5	II	25400	115	B3-U0-G3	26504	120	B3-U0-G4	27608	125	B3-U0-G4	28713	130	B3-U0-G4	N/A	N/A		
			II-FR	25570	115	B3-U0-G2	26682	120	B3-U0-G2	27794	125	B3-U0-G2	28905	130	B4-U0-G2				
			III-M	25844	117	B3-U0-G4	26967	122	B3-U0-G4	28091	127	B3-U0-G4	29215	132	B3-U0-G4				
			III-W	23996	108	B3-U0-G4	25040	113	B3-U0-G4	26083	118	B3-U0-G4	27126	122	B3-U0-G4				
			IV	25650	116	B3-U0-G4	26765	121	B3-U0-G4	27880	126	B3-U0-G4	28996	131	B3-U0-G4				
			IV-FT	23365	105	B3-U0-G4	24381	110	B3-U0-G5	25397	115	B3-U0-G5	26413	119	B3-U0-G5				
			VSQ-N	26808	121	B5-U0-G2	27974	126	B5-U0-G2	29139	132	B5-U0-G2	30305	137	B5-U0-G2				
			VSQ-M	26289	119	B5-U0-G3	27432	124	B5-U0-G3	28575	129	B5-U0-G3	29718	134	B5-U0-G3				
			VSQ-W	25661	116	B5-U0-G4	26777	121	B5-U0-G4	27893	126	B5-U0-G4	29008	131	B5-U0-G4				
			II-HS	18576	84	B1-U0-G3	19384	88	B1-U0-G3	20191	91	B1-U0-G4	20999	95	B2-U0-G4				
			II-FR-HS	18896	85	B1-U0-G2	19717	89	B1-U0-G2	20539	93	B1-U0-G2	21360	96	B1-U0-G2				
			III-M-HS	18794	85	B1-U0-G4	19611	89	B1-U0-G4	20428	92	B1-U0-G4	21245	96	B1-U0-G4				
			III-W-HS	18395	83	B1-U0-G4	19195	87	B1-U0-G4	19995	90	B1-U0-G4	20795	94	B1-U0-G4				
			IV-HS	19411	88	B1-U0-G4	20255	91	B1-U0-G4	21099	95	B1-U0-G4	21943	99	B1-U0-G4				
			IV-FT-HS	18345	83	B1-U0-G4	19143	86	B1-U0-G4	19940	90	B1-U0-G4	20738	94	B1-U0-G4				

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PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

PAC18-PT-PLED-AL-48LED-525mA-40K - 16' Mounting Height (14' Pole)



PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PLED-AL)

PAC18-PT-PLED-AL																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
48	175	26.5	ASY	2953	111	B1-U0-G1	3081	116	B1-U0-G1	3210	121	B1-U0-G1	3338	126	B1-U0-G1	20.4	1156	57	B1-U0-G1
			SYM	2956	112	B1-U0-G1	3085	116	B1-U0-G1	3213	121	B1-U0-G1	3342	126	B1-U0-G1		1157	57	B1-U0-G0
			ASY-HS	2113	80	B1-U0-G1	2205	83	B1-U0-G1	2297	87	B1-U0-G1	2389	90	B1-U0-G1		827	41	B0-U0-G0
48	350	53.6	ASY	5572	104	B2-U0-G1	5814	108	B2-U0-G1	6057	113	B2-U0-G1	6299	118	B2-U0-G2	41.3	1938	47	B1-U0-G1
			SYM	5578	104	B2-U0-G1	5820	109	B2-U0-G1	6063	113	B2-U0-G1	6306	118	B2-U0-G1		1940	47	B1-U0-G0
			ASY-HS	3987	74	B1-U0-G1	4160	78	B1-U0-G1	4334	81	B1-U0-G1	4508	84	B1-U0-G1		1387	34	B1-U0-G0
48	525	80.7	ASY	7923	98	B2-U0-G2	8268	102	B3-U0-G2	8612	107	B3-U0-G2	8957	111	B3-U0-G2	62.1	2239	36	B1-U0-G1
			SYM	7932	98	B3-U0-G1	8276	103	B3-U0-G1	8622	107	B3-U0-G1	8966	111	B3-U0-G1		2241	36	B1-U0-G1
			ASY-HS	5670	70	B2-U0-G1	5916	73	B2-U0-G1	6163	76	B2-U0-G1	6409	79	B2-U0-G1		1602	26	B1-U0-G1
48	700	108.0	ASY	9968	92	B3-U0-G2	10401	96	B3-U0-G2	10835	100	B3-U0-G2	11268	104	B3-U0-G2	N/A	N/A		
			SYM	9979	92	B3-U0-G1	10413	96	B3-U0-G1	10847	100	B3-U0-G1	11280	104	B3-U0-G1				
			ASY-HS	7133	66	B2-U0-G1	7443	69	B2-U0-G1	7753	72	B2-U0-G1	8063	75	B2-U0-G2				
48	875	134.7	ASY	11734	87	B3-U0-G2	12245	91	B3-U0-G2	12755	95	B3-U0-G3	13265	98	B3-U0-G3	N/A	N/A		
			SYM	11747	87	B3-U0-G1	12258	91	B3-U0-G1	12769	95	B3-U0-G1	13279	99	B3-U0-G1				
			ASY-HS	8397	62	B2-U0-G2	8762	65	B2-U0-G2	9127	68	B2-U0-G2	9492	70	B3-U0-G2				

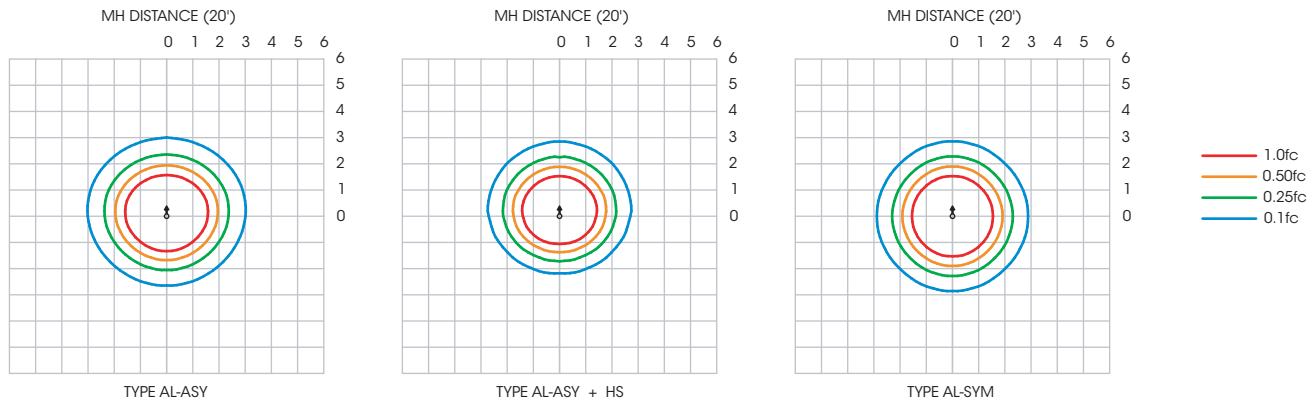
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PAC-PT2 SERIES - PLED

PHOTOMETRIC DATA GUIDE - ISOFOOTCANDLE PLOTS

PAC24-PT-PLED-AL-80LED-525mA-40K - 20' Mounting Height (18' Pole)



PHOTOMETRIC DATA GUIDE - LUMEN TABLES (PAC-PT-PLED-AL)

PAC24-PT-PLED-AL																			
LED Count	Drive Current (mA)	System Watts	Dist'n Type	27K (2700K - 70CRI)			30K (3000K - 70CRI)			40K (4000K - 70CRI)			50K (5000K - 70CRI)			System Watts	TRA (590nm)		
				LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING	LUMENS	LPW	BUG RATING		LUMENS	LPW	BUG RATING
80	175	41.9	ASY	4725	113	B2-U0-G1	4930	118	B2-U0-G1	5136	123	B2-U0-G1	5341	127	B2-U0-G1	32.3	1849	57	B1-U0-G1
			SYM	4730	113	B2-U0-G1	4936	118	B2-U0-G1	5141	123	B2-U0-G1	5347	128	B2-U0-G1		1851	57	B1-U0-G0
			ASY-HS	3381	81	B1-U0-G1	3529	84	B1-U0-G1	3676	88	B1-U0-G1	3822	91	B1-U0-G1		1323	41	B1-U0-G0
80	350	85.8	ASY	8915	104	B3-U0-G2	9303	108	B3-U0-G2	9691	113	B3-U0-G2	10078	117	B3-U0-G2	66.1	3101	47	B1-U0-G1
			SYM	8925	104	B3-U0-G1	9312	109	B3-U0-G1	9700	113	B3-U0-G1	10089	118	B3-U0-G1		3104	47	B1-U0-G1
			ASY-HS	6379	74	B2-U0-G1	6657	78	B2-U0-G1	6934	81	B2-U0-G1	7212	84	B2-U0-G1		2219	34	B1-U0-G1
80	525	129.7	ASY	12677	98	B3-U0-G3	13228	102	B3-U0-G3	13779	106	B3-U0-G3	14331	110	B3-U0-G3	99.9	3583	36	B1-U0-G1
			SYM	12691	98	B3-U0-G1	13242	102	B3-U0-G1	13794	106	B3-U0-G1	14346	111	B3-U0-G1		3587	36	B1-U0-G1
			ASY-HS	9072	70	B2-U0-G2	9466	73	B3-U0-G2	9860	76	B3-U0-G2	10255	79	B3-U0-G2		2564	26	B1-U0-G1
80	700	173.5	ASY	15949	92	B3-U0-G3	16642	96	B3-U0-G3	17335	100	B3-U0-G3	18030	104	B3-U0-G3	N/A	N/A		
			SYM	15967	92	B3-U0-G1	16660	96	B3-U0-G1	17355	100	B3-U0-G1	18049	104	B3-U0-G1				
			ASY-HS	11413	66	B3-U0-G2	11909	69	B3-U0-G2	12405	71	B3-U0-G2	12901	74	B3-U0-G2				
80	875	221.5	ASY	18775	85	B3-U0-G3	19592	88	B3-U0-G3	20408	92	B3-U0-G3	21224	96	B4-U0-G3	N/A	N/A		
			SYM	18796	85	B4-U0-G1	19613	89	B4-U0-G1	20430	92	B4-U0-G2	21247	96	B4-U0-G2				
			ASY-HS	13435	61	B3-U0-G2	14019	63	B3-U0-G2	14603	66	B3-U0-G2	15187	69	B3-U0-G2				

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