City of Oconomowoc
ARCHITECTURAL COMMISSION MEETING

Wednesday, January 8, 2020 @ 5:00 PM @ City Hall, Conf. Room #3

NOTICE: If a person with a disability requires the meeting be accessible or materials at the meeting be in an accessible format, call Diane Coenen, City Clerk, at least 48 hours prior to the meeting at 262-569-2186, or TDD at 262-569-3272 to request adequate accommodations.

AGENDA:

1. Roll Call and Confirmation of appropriate meeting notification.
2. Approve Minutes of December 11, 2019.
3. Elite Collision Repair – Consider/approve a façade update at 156 N. Thompson Street.
4. Lake Country Car Wash – Discuss building plans to be located on the SE corner of WIS 67 and Oconomowoc Parkway, south of Kwik Trip.
5. Blue Ribbon Baseball – Discuss building plans to be located on Blue Ribbon Circle N (Tax Key OCOC0635999008).
6. Reports and comments from the City Planning Department.
7. Reports and comments from the Architectural Commissioners.
8. Adjourn.

Diane Coenen, City Clerk

Members of other City governmental bodies (boards, commission, committees, council, etc.) may attend the above noticed meeting of the Architectural Commission in order to gather information. The only action to be taken at the above noticed meeting will be action by the Architectural Commission. Architectural Commissioners should notify the City Clerk's Office at 262-569-3236 if they are unable to attend.

City of Oconomowoc
Architectural Commission Meeting Minutes
December 11, 2019

Chairman Johnson called the meeting to order at 5:00 pm.

Members Present: Paul Schultz, Kurt Schrang, Kent Johnson, Jeremy Flint and Anne Krogstad
Staff Present: Jason Gallo, Kristi Weber, Sarah Kitsembel and Chris Dehnert

2. Approve the November 13, 2019 Minutes: Motion by Flint to approve the November 13, 2019 minutes; second by Schrang. Motion carried 5-0.

Anne Krogstad excused herself to present the next item.

3. Lake Country Car Wash – Consider/approve Building Plans to be located on the SE corner of WIS 67 and Oconomowoc Parkway, south of Kwik Trip: Weber explained this item was originally approved by the Architectural Commission in September. The applicant recently contacted staff to advise that they made changes to the design and materials of the building. Staff reviewed the new proposal and felt changes from the previously approved plan were substantial and should be reviewed by the commission. Weber showed pictures of the previous submittal which included a tower element, red brick, red dimensional shingles and bumped out walls and then pictures of the new proposal which include a red shingled roof, white clapboard siding with brown trim, wood faux sliding barn doors, a roof cupola, angled "crows peak" gable roof extensions, and a stone base. Weber noted the building size has been reduced to 1000 sf and pay stations are less defined. She also showed pictures of different farm buildings which the applicant used for inspiration and noted a similarity to the recently reviewed (but not approved) Mendel apartments which had a farmhouse style. The applicant also provided an existing conditions map that showed specific buildings along the corridor which they took features from. Weber concluded by showing the previous submittal versus the new one which differ in building mass; said the only signage appears to be a monument sign which may be approved administratively if it meets code; need more information on the dumpster enclosure; and she made no recommendation. Stu LaRose and Anne Krogstad of MSI General said the owner requested the building be changed because they desired to create a building which would make their business stand out. Krogstad showed the inspiration board and conditions map and said they took ideas from the Mendel apartment buildings and old barns. Materials include rustic stone; cottage red shingles; cream color board and batten siding; clapboard siding in the gables and dormers; a small door in the gable end; dark accent trim; wood tone siding in the gable ends; and glass garage door. The dumpster will consist of board and batten siding with dark accent trim and clapboard around the base. LaRose said the design was presented to Peter Bell and their architect for review, and feedback was good with a few changes. LaRose said they wanted to create a design which their client can use in marketing their business. Chris Mullett, owner, requested the former submittal not be considered; said they took inspiration from other businesses in the area that are not in the Pabst Farms development; and they have a meeting coming up to discuss branding for the business. Members questioned Peter Bell's input, and LaRose said Bell was in favor of the updated building style. Jon Kutz of MSI General, added that Bell's architect incorporated the addition of dormers to help break up the expansive roof. Gallo handed out an email from Peter Bell indicating approval of the new design. Members comments included: a white barn in this area has no continuity to nearby buildings; the building is not contextual; building materials are not appropriate; didn't care for the scale of the previous building; no issue with the new design; concern with the white color as it is so different than buildings around it; don't agree with the proposed windows; scale of building and massing is wrong; and smart siding is not a good choice because of the high moisture conditions of a car wash. LaRose believes the building fits in this community.

Members then gave the following suggestions: if the building is intended to look old, more stone could be added around the gable and other areas; the red roof is okay; there is a double roof shown on the applicant's inspiration handout which the members really liked; the white color is okay if the style of the building appears more like a horse barn; remove the wood faux sliding barn doors; replace the windows with what looks like a double set of barn doors with the upper left half of the doors with dark glass to let in light but gives an appearance that it is open, and the bottom half with an "X" on it, then the next door would have an "X" on the top half and a handle or pull on the bottom half - then put as many as needed on the side elevations to let light into the car wash; make the building the size and shape of an actual barn; add accents around the building that would normally be shown on a barn; the building should be tall enough to allow for an upper level that appears to be a hay loft; add smaller fenestrations (windows) in other areas; and no lap siding-consider nichiha or cement board siding. Gallo clarified that 3 votes would be needed to take any action. Kutz agreed they could add masonry around the building, said they are looking for direction and don't want to necessarily start over. Motion by Flint to postpone a decision on the current application for Lake Country Car Wash; second by Schultz. Kutz was concerned with the timing of the next meeting, and members suggested a special meeting could be held to work through the issues with the design. Motion carried 4-0-1 (Krogstad abstained).

4. Reports and comments from the City Planner: None.

5. Reports and comments from the Architectural Commissioners: None.

6. Adjourn: Motion by Schultz to adjourn at 5:54 pm; second by Schrang. Motion carried 5-0.

Chris Dehnert, Deputy City Clerk

Department of City Planning
Kristi Weber | 262.569.2173
oconomowoc-wi.gov/planning

Architectural Commission Background
January 8th 2020 : 5:00 pm at City Hall in Conference Room #3

Item #3 – Elite Collision Repair; Façade Update

The applicant is requesting approval for a façade update for an auto repair building located at 156 N. Thompson Street. This building is located in the Downtown District zoned MC – Mixed-Use Commercial, and per Section §17.703 of the City's Municipal Code the Architectural Commission shall approve/deny all exterior building changes.

Building Colors

The applicant is proposing to change the existing building color from cream with teal/purple stripe to gray (Mindful Gray SW7016) with a navy (Sea Serpent SW7615) stripe. Planning Staff supports the façade change and appreciates the new Owner's updating the building. Staff noticed that the rendering colors are different from the paint samples submitted. Staff would like the applicant to verify at the meeting which colors will be painted for the façade update.

Recommendation:

Approve the façade update for Elite Collision Repair, 156 N. Thompson Street as submitted.

Item #4 – Lake Country Car Wash; Building Plans - DISCUSSION ONLY

This is a discussion item for an updated and revised set of architectural plans for a car wash to be located on the SE corner of WIS 67 and Oconomowoc Parkway, south of Kwik Trip.

Background

This project's history with the Architectural Commission:

- August 14th 2019 – Discussion Only
- September 11th 2019 – Approved Building Plans
- In October, the project was completely redesigned (size, scale, massing, materials, colors, aesthetics etc.). The overall building footprint has also decreased from 4,315 SF to 3,347 SF (approximately 1,000 SF). Staff reviewed the new plans and determined, per Code, that it was considered a major change. A major change requires re-approval from Architectural Commission, Plan Commission and Common Council, prior to building permit.
- December 11th 2019 – New Request for Approval of new design; Action was postponed
    - The Architectural Commissioners had heavy discussion on building massing, size, scale, articulation, color etc. The building would need to return for further consideration.

The applicant has identified the following changes have been made per the feedback from the December 11th 2019 Architectural Commission meeting:

1. The revised building is taller than the previous submittal with the middle portion of the building peak now at 31' 6" A.F.F.
2. The overall scale of the building in considerably larger, in response to the request to better highlight the modern farmhouse architectural style
3. The colors have been adjusted to the more traditional white and red Pabst Farms look as well as a greater differentiation of materials
4. The masonry has been increased by almost 400%, specifically on the north and south elevations
5. The glass and glazing has been adjusted to further represent the modern farmhouse architectural style per comments by the commissioners
6. Overall adjustments to "barn doors", gable treatments, and the cupola were also made.

The applicant is seeking feedback on the architectural design including:

- Massing, scale, four-sided architecture, articulation, materials, colors, rooflines, mechanicals and relationship to surrounding context.

Following the discussion with the Architectural Commission, it is the applicant's intent to come back in the near future for formal approval.

Item #5 – Blue Ribbon Baseball; Building Plans - DISCUSSION ONLY

This is a discussion item for a baseball complex to be located on Blue Ribbon Circle N, at Tax Key OCOC0635999008.

The applicant is seeking feedback on the architectural design including:

- Massing, scale, four-sided architecture, articulation, materials, colors, rooflines, mechanicals and relationship to surrounding context.

Following the discussion with the Architectural Commission, it is the applicant's intent to come back in the near future for formal approval.

RECEIVED
DEC 19 2019
CITY OF OCONOMOWOC
PLANNING DEPARTMENT

Architectural Building Review

Department of City Planning
174 E. Wisconsin Avenue Oconomowoc, WI
www.oconomowoc-wi.gov | 262.569.2166

The following information is required to be included and explained in your submittal. The submittal shall be 12 copies (no larger than 11"x17") and collated:

- ☒ This Application and $75 Application Fee
- ☒ Project Summary / Narrative
- ☐ Overall site and building plan(s)
- ☐ Building elevation(s) to scale with dimensions
  - Identify true elevation markers and overall building height
  - Identify all building materials *(i.e. maker, color specs)*
- ☒ Color renderings of building elevation(s)
- ☐ Dumpster plan(s) and enclosure details *(i.e. colors, materials)*
- ☐ Exterior lighting plan(s) and details
- ☐ Landscaping plan and plant list
- ☒ [Email] All of the above in .pdf format (under 5MB) to Planning Staff
  - Jason Gallo, City Planner: JGallo@oconomowoc-wi.gov | phone: 262-569-2166
  - Kristi Weber, Planner: KWeber@oconomowoc-wi.gov | phone: 262-569-2173
- ☒ [At Meeting] Provide and present all building materials and color samples for project

Name of Applicant requesting the review: Aaron Jungbluth
Applicant's Address *(include city, state and zip code)*: W294 N7854 Camp Whitcomb Rd Hartland WI 53029
Applicant's telephone number: 262 894 6210
Applicant's email address: jungblutheaaron@yahoo.com

Name of Establishment requesting the review: Elite Collision Repair
Address of Establishment *(include city, state and zip code)*: 156 N Thompson St Oconomowoc WI 53066
Name of Establishment's primary contact: Aaron Jungbluth
Primary contact's telephone number: 262 894 6210
Primary contact's email address: jungblutheaaron@yahoo.com

Property Owner of establishment requesting the review: Aaron Jungbluth
Property Owner's Address *(include city, state and zip code)*: W294 N7854 Camp Whitcomb Rd Hartland WI 53029
Property Owner's telephone number: 262 894-6210
Property Owner's email address: jungblutheaaron@yahoo.com

Desired Start Date: 1-15-20 **Anticipated** Completion Date: 2-15-20

Zoning of Property: MC In the **Downtown District**? *(yes/no)* ____ **-OR-** on the **Isthmus**? *(yes/no)* ____
Describe the following *(if needed, attach additional supporting sheets/details)*:

- Roof Pitch / Material(s) / Color(s): ____
- Window Glass / Framing: ____
- Type of HVAC system *(ground units / wall packs / venting on elevations?)* ____

Are there building mechanicals/equipment/lighting on the roof screened? *(yes/no)* ____

As Applicant/Agent/Property Owner, I agree to conform to the approval given by the City Planner/Architectural Commission.

Signature ____ **Date** 12-4-19

AWNINGS TO BE REMOVED

colors used
(faded in top view for
better viewing of building

SW 7016
Mindful Gray

NU 06

SW 7615
Sea Serpent

NU 08

SW 7016
Mindful Gray

244-C2

Nurturer NU 06
LRV: 48

SHERWIN-WILLIAMS COLORSNAP® | COLOR ID

INVITE THEM IN.

This is you. This is your Color ID. The colors in this palette are perfectly coordinated, allowing you to mix and match with confidence.

NURTURER

Want to see how this color will look in your space? Download the **ColorSnap® Visualizer app** at **getcolorsnap.com**.

sherwin-williams.com

©2019 The Sherwin-Williams Company

Samples approximate the actual paint color.

Try different color combinations using the cutout below to create a look that's all your own.

1018-37672 CS 8/19

SW 7615
Sea Serpent

234-C7

Nurturer NU 08
LRV: 7

SHERWIN-WILLIAMS COLORSNAP® | COLOR ID

INVITE THEM IN.

This is you. This is your Color ID. The colors in this palette are perfectly coordinated, allowing you to mix and match with confidence.

NURTURER

Want to see how this color will look in your space? Download the **ColorSnap® Visualizer app** at **getcolorsnap.com**.

sherwin-williams.com

©2019 The Sherwin-Williams Company

Samples approximate the actual paint color.

Try different color combinations using the cutout below to create a look that's all your own.

1018-37698 CS 2/19

RECEIVED
JAN 02 2020
CITY OF OCONOMOWOC
PLANNING DEPARTMENT

Department of City Planning
174 E. Wisconsin Avenue Oconomowoc, WI
www.oconomowoc-wi.gov | 262.569.2166

Architectural Building Review

The following information is required to be included and explained in your submittal. The submittal shall be 12 copies (no larger than 11"x17") and collated:

- This Application and $75 Application Fee
- Project Summary / Narrative
- Overall site and building plan(s)
- Building elevation(s) to scale with dimensions
  - Identify true elevation markers and overall building height
  - Identify all building materials *(i.e. maker, color specs)*
- Color renderings of building elevation(s)
- Dumpster plan(s) and enclosure details *(i.e. colors, materials)*
- Exterior lighting plan(s) and details
- Landscaping plan and plant list
- [Email] All of the above in .pdf format (under 5MB) to Planning Staff
  - Jason Gallo, City Planner: JGallo@oconomowoc-wi.gov | phone: 262-569-2166
  - Kristi Weber, Planner: KWeber@oconomowoc-wi.gov | phone: 262-569-2173
- ☐ [At Meeting] Provide and present all building materials and color samples for project

Name of Applicant requesting the review: Stu LaRose & Anne Krogstad - MSI General
Applicant's Address *(include city, state and zip code)*: W215 E. Wisconsin Ave. Nashotah, WI 53058
Applicant's telephone number: Stu L. (262) 563-5368 & Anne K. (262) 563-5340
Applicant's email address: stu@msigeneral.com & anne@msigeneral.com

Name of Establishment requesting the review: LCCW Investments
Address of Establishment *(include city, state and zip code)*: Approx. 1600 Summit Avenue, Dividing Lot 2 of prior CSM 11156
Name of Establishment's primary contact: Chris Mullett
Primary contact's telephone number: (262) 309-5659
Primary contact's email address: cwm.mullett@gmail.com

Property Owner of establishment requesting the review: _____
Property Owner's Address *(include city, state and zip code)*: 935 Emerald Drive, Hartford, WI 53027
Property Owner's telephone number: (414) 559-2132
Property Owner's email address: williamloepfe@hotmail.com

Desired Start Date: February 2020 **Anticipated** Completion Date: June 2020

Zoning of Property: _____ In the **Downtown District**? *(yes/no)* No **-OR-** on the **Isthmus**? *(yes/no)* No
Describe the following *(if needed, attach additional supporting sheets/details)*:

- Roof Pitch / Material(s) / Color(s): Architectural shingles 8:12 pitch
- Window Glass / Framing: Vinyl windows - 1" Low E glass
- Type of HVAC system *(ground units / wall packs / venting on elevations?)* Unit heaters within building volume

Are there building mechanicals/equipment/lighting on the roof screened? *(yes/no)* No

As Applicant/Agent/Property Owner, I agree to conform to the approval given by the City Planner/Architectural Commission.

Stu LaRose
Signature

1/2/20
Date

Oconomowoc Architectural Building Review

Summary / Narrative

MSI #: P12470 LCCW Investments

12/31/19

The proposed new Lake Country Car Wash facility will be located directly adjacent to and south of Kwik Trip #858 on the southeast corner of Hwy 67 Summit Avenue, and Oconomowoc Parkway at approximately 1600 Summit Avenue, dividing Lot 2 of prior CSM 11156. The 3,347 s.f. car wash and associated hard surface will accommodate 46% green space on the 1-acre site. Storm discharge will occur to the east of the site, with a 15" pipe directing storm water east to an existing manhole at Old School House Road.

Site entry is accommodated from the east with an extension to the south of the existing road currently east of Kwik Trip. This will involve a separate access easement. Car wash patrons will access the facility east to west, and will exit west to east along the southern portion of the parcel.

The building itself will be clad with the following materials:

- Cobble stone veneer at the building base and entry elements
- LP clapboard siding and trim (board and batten & horizontal shakes)
- Vinyl windows, with 1" low-E glass
- Aluminum storefront entrance
- Dimensional architectural shingles to match Pabst Farms standard – Cottage Red
- Angled "crows peak" gable roof extensions to mimic barn vernacular detailing
- Wood faux sliding barn doors to mimic barn vernacular detailing
- A roof cupola with weather vane to mimic barn vernacular

The trash dumpster enclosure will be clad with LP board and batten siding with stone veneer base identical to the building described above. Exterior signage will be provided with a monument pedestal west of the building along Summit Avenue. All mechanical equipment will be internal to the building.

Our submittal consists of (12) copies of:

- Application
- Project Summary / Narrative
- Color Architectural Site Plan C-1.01
- Floor Plan A101
- Color Elevations incl. Dumpster enclosure A102 / A201

- (7) Color Renderings
- Lighting Plan with Photometrics ES100
- Lighting Fixture Cut Sheets
- Landscaping Plan
- Site Existing Conditions (Electronic Only, will bring board to meeting)
- Inspiration Images (Electronic Only, will bring board to meeting)

Thank you for your review.

<u>Project Team</u>

Christopher Mullett, LCCW Investments

Will Loepfe, LCCW Investments

John Kutz, Vice President, MSI General

Stu LaRose, Sr. Project Manager, MSI General

Anne Krogstad, Architect, MSI General

Rob Davy, Civil Engineer, Lake Country Engineering

Matt O'Rourke, Surveyor, LandTech Surveying

INSPIRATION IMAGES

LCCW INVESTMENTS

EXISTING CONDITIONS MAP

LCCW INVESTMENTS

IXONIA BANK

QUIZNOS SUB

ASSOCIATED BANK

KWIK TRIP

TARGET FULFILLMENT CENTER

SUMMIT ANIMAL CLINIC

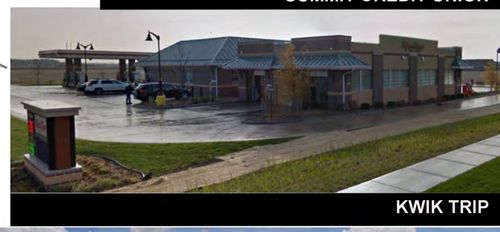
CHILIS

FLEET FARM

PRIMARY EYECARE ASSOCIATES

SONOMA CELLARS

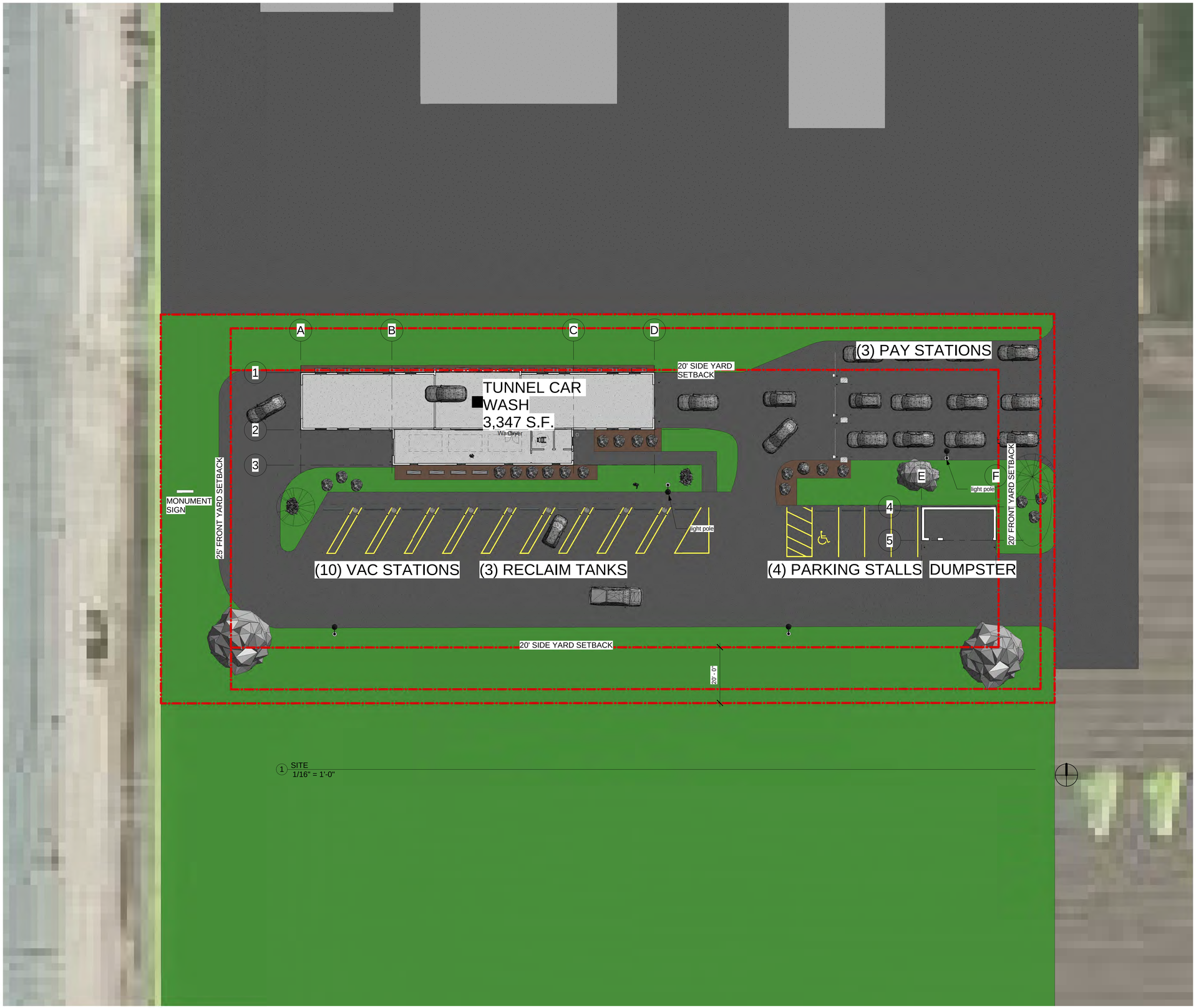
SUMMIT CREDIT UNION



KWIK TRIP

LCCW INVESTMENTS PROPOSED CAR WASH LOCATION

QDOBA



MSI GENERAL

MANAGERS

MSI GENERAL CORPORATION
P.O. BOX. 7
OCONOMOWOC, WI 53066
PHONE: 262-367-3661

WWW.MSIGENERAL.COM

SINGLE SOURCE RESPONSIBILITY

ENGINEERS

ISSUE DATES:
Proposal:
Bid: 9/05/19
Contract:
State Submittal / Permit:
As-Built:

REVISIONS

DATE	

CONTRACTORS

PROJECT ADDRESS:

PROJECT NAME
LCCW INVESTMENTS
STREET ADDRESS
CENTER DRIVE
CITY/ STATE / ZIP
OCONOMOWOC, WI 53066

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

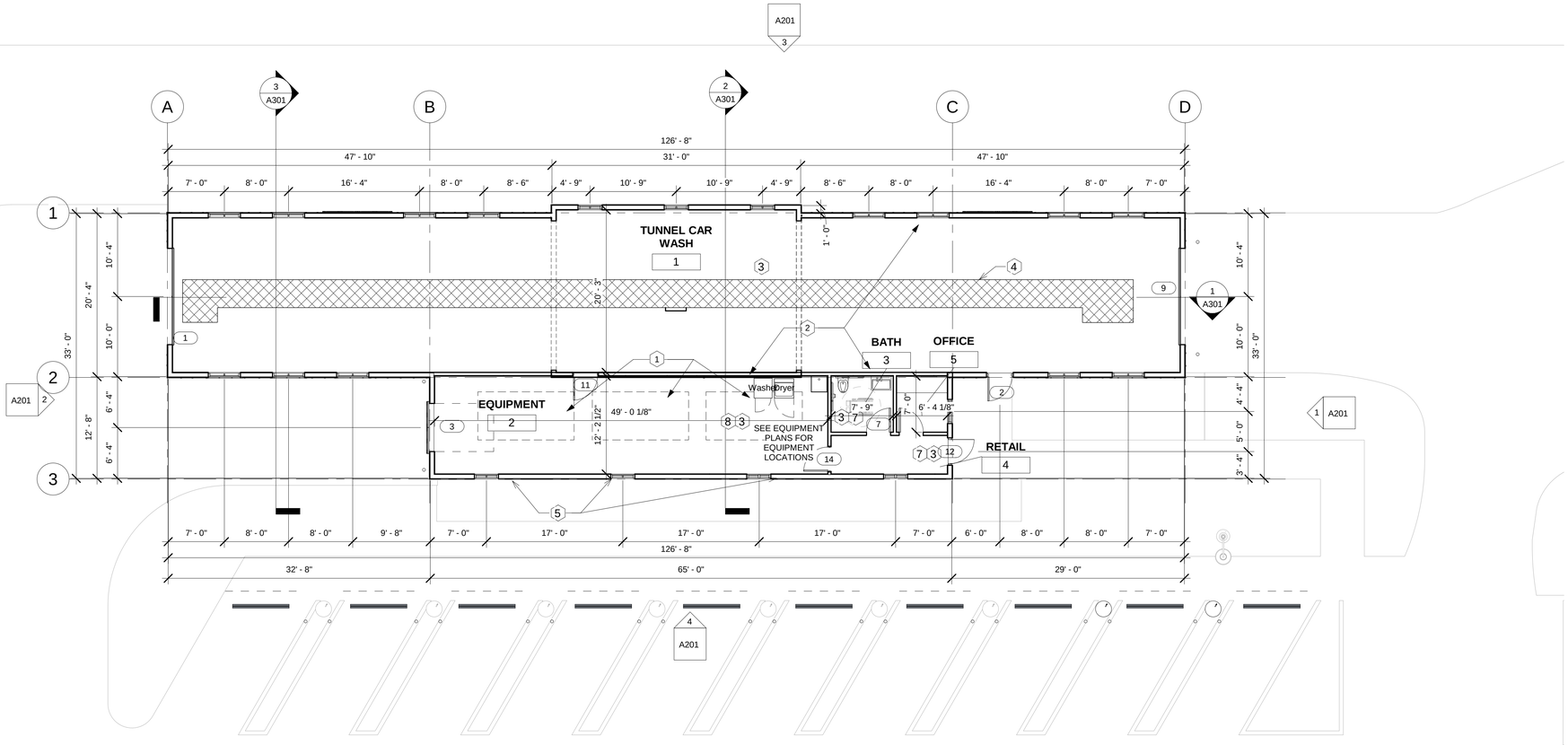
ARCHITECTS

Architect:	Engineer:	Reviewed By:
ANK	AGR	BJZ

Sheet Title:
SITE PLAN

Sheet Number:
C-1.01

Project Number: P
P12470



1 FIRST FLOOR
1/8" = 1'-0"

DOOR AND FRAME SCHEDULE											
NUMBER	Type Mark	TYPE	WIDTH	HEIGHT	MATERIAL	GLASS SIZE	FRAME MATERIAL	JAMB DETAIL	HEAD DETAIL	REMARKS	NUMBERA
1	1	M4	12' - 0"	10' - 0"	ALUMINUM	FULL	ALUMINUM	STND	STND	HIGH SPEED DOOR	
2	24	AL2	3' - 0"	7' - 0"	ALUMINUM		ALUMINUM	STND	STND		
3	23	M6	6' - 0"	8' - 0"	ALUMINUM	FULL	ALUMINUM	STND	STND		
7	6	HM1	3' - 0"	6' - 8"	H.M.		H.M.	STND	STND		
9	1	M4	12' - 0"	10' - 0"	ALUMINUM	FULL	ALUMINUM	STND	STND	HIGH SPEED DOOR	
11	24	AL2	3' - 0"	7' - 0"	ALUMINUM		ALUMINUM	STND	STND		
12	7	AL1	3' - 0"	7' - 0"	ALUMINUM	FULL	ALUMINUM	STND	STND		
14	24	HM1	3' - 0"	7' - 0"	H.M.			STND	STND		
15	6		3' - 0"	6' - 8"							

PLAN - NOTES

1. 6'-0" WIDE X 11'-0" LONG X 6'-0" DEEP 1,500 GALLON RECLAMATION TANK BASE PER MANUFACTURER
2. PANEL LINED INTERIOR WALLS OVER WOOD STUDS
3. SEALED CONCRETE FLOOR
4. TRENCH DRAIN, SEE EQUIPMENT PLAN
5. VINYL WINDOW
6. NOT USED
7. 2X2 VINYL TILE AFF 9'-0"
8. PLYWOOD INTERIOR FINISH PAINTED

MSI GENERAL

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OCONOMOWOC, WI 53066
PHONE: 262-367-3661

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SINGLE SOURCE RESPONSIBILITY

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OCONOMOWOC, WI 53066

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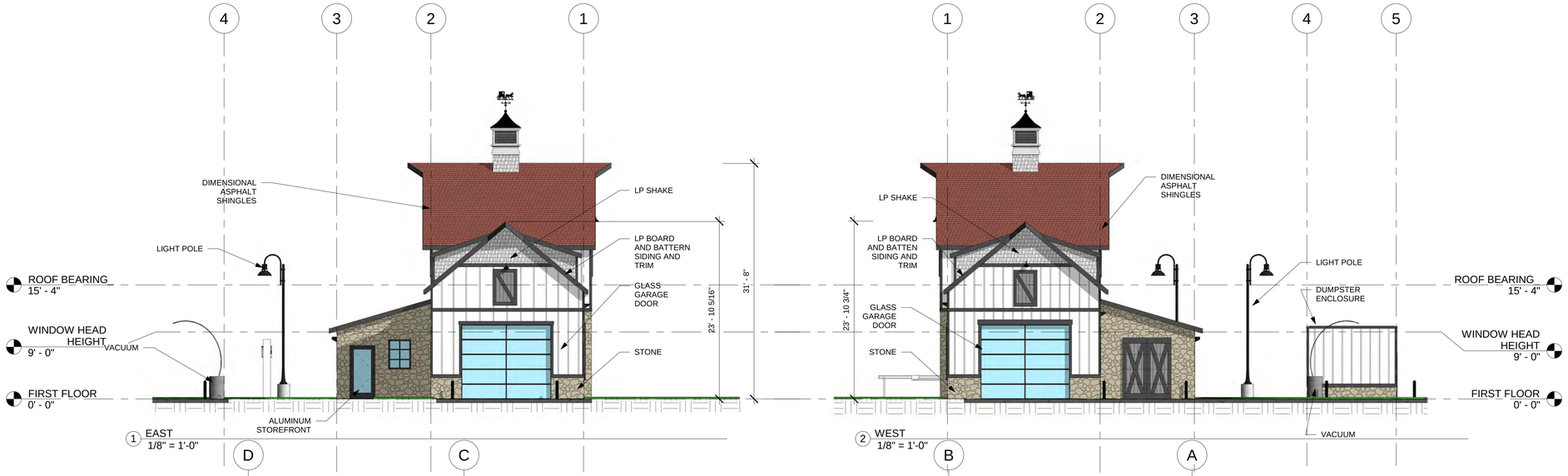
Architect:	Engineer:	Reviewed By:
ANK	AGR	BJZ

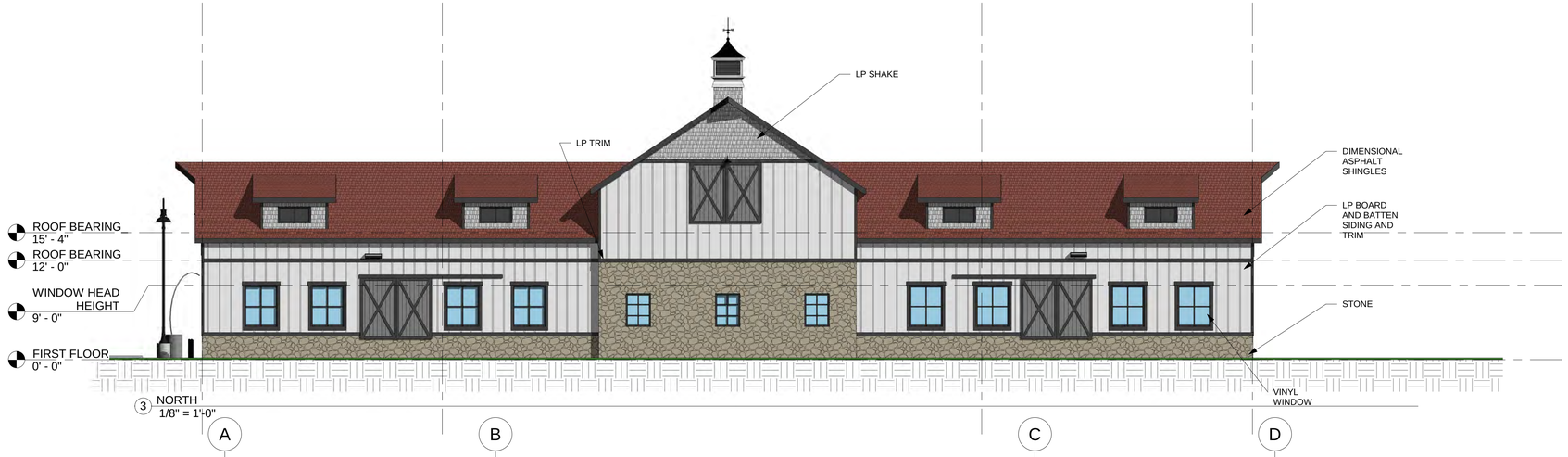
Sheet Title:
FLOOR PLAN

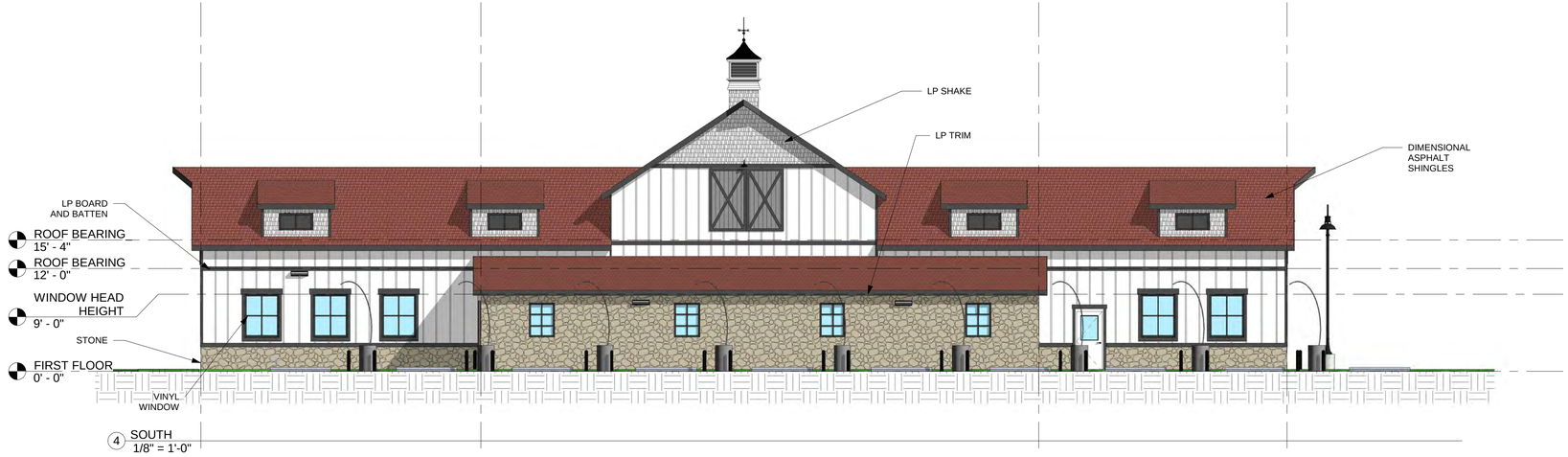
Sheet Number:
A101

Project Number: P
P12470

MANAGERS . ENGINEERS . CONTRACTORS . ARCHITECTS







MSI GENERAL

MANAGERS . ENGINEERS . CONTRACTORS . ARCHITECTS

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CITY/ STATE / ZIP
OCONOMOWOC, WI 53066

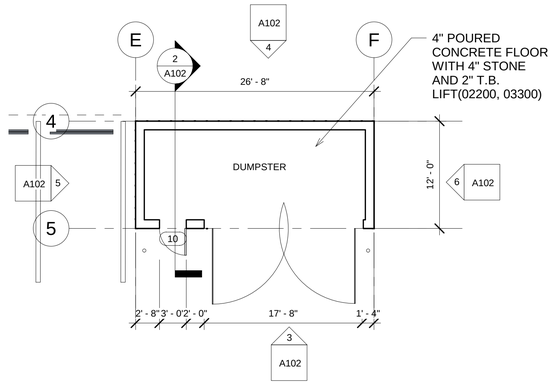
ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

Architect:	Engineer:	Reviewed By:
ANK	AGR	BJZ

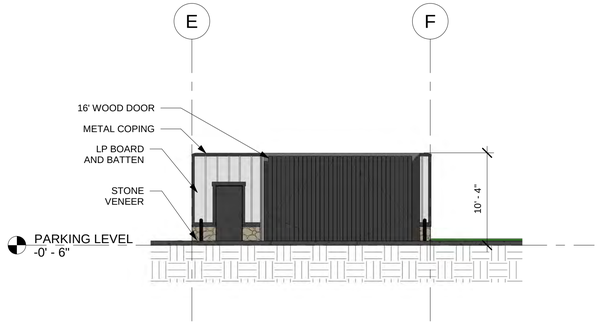
Sheet Title:
EXTERIOR ELEVATIONS

Sheet Number:
A201

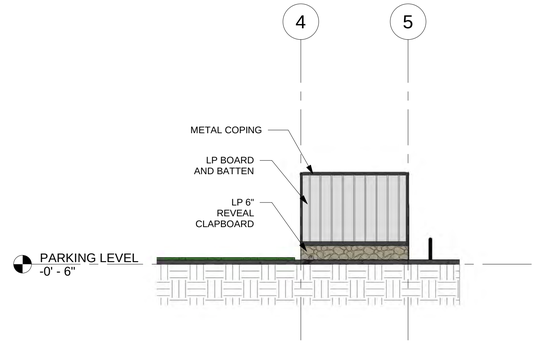
Project Number: P
P12470



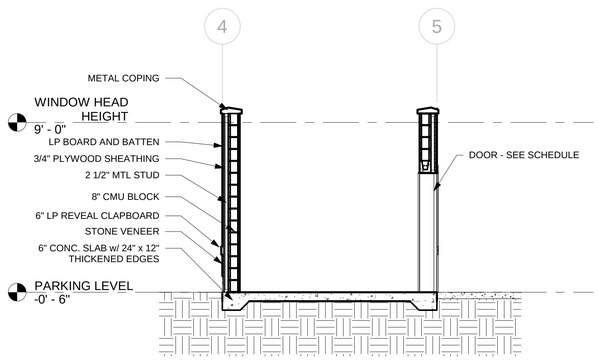
1 DUMPSTER ENCLOSURE
1/8" = 1'-0"



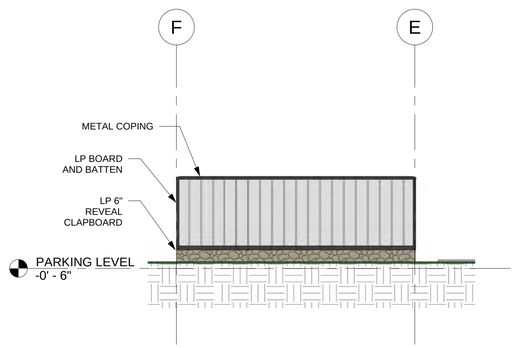
3 SOUTH ELEVATION
1/8" = 1'-0"



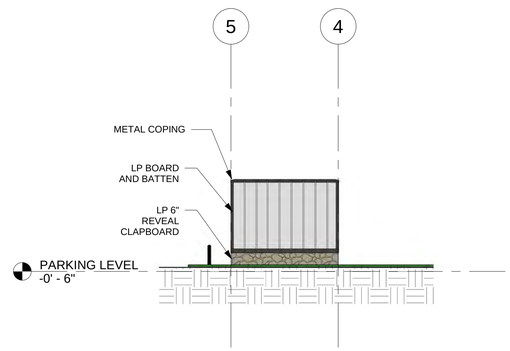
5 WEST ELEVATION
1/8" = 1'-0"



2 SECTION 1
1/4" = 1'-0"



4 NORTH ELEVATION
1/8" = 1'-0"



6 EAST ELEVATION
1/8" = 1'-0"

DOOR AND FRAME SCHEDULE - TRASH ENCLOSURE

NUMBER	Type Mark	TYPE	WIDTH	HEIGHT	MATERIAL	GLASS SIZE	FRAME MATERIAL	JAMB DETAIL	HEAD DETAIL	REMARKS
10	6	HM1	3' - 0"	6' - 8"	H.M.		H.M.	STND	SD	
26	26		16' - 0"	10' - 0"						SWING GATE

MSI GENERAL CORPORATION
P.O. BOX. 7
OCONOMOWOC, WI 53066
PHONE: 262-367-3661

WWW.MSIGENERAL.COM
SINGLE SOURCE RESPONSIBILITY

MANAGERS . ENGINEERS . CONTRACTORS . ARCHITECTS

ISSUE DATES:
Proposal:
Bid: 9/05/19
Contract:
State Submittal / Permit:
As-Built:

REVISIONS

DATE	

PROJECT ADDRESS:

PROJECT NAME
LCCW INVESTMENTS
STREET ADDRESS
CENTER DRIVE
CITY/ STATE / ZIP
OCONOMOWOC, WI 53066

ALL WORK TO BE COMPLETED AS SHOWN, AND IN ACCORDANCE WITH THE LATEST EDITION OF THE MSI GENERAL MASTER SPECIFICATION

Architect:	Engineer:	Reviewed By:
ANK	AGR	BJZ

Sheet Title:
DUMPSTER ENCLOSURE

Sheet Number:
A102

Project Number: P
P12470

Single Source Responsibility™

DESIGNBUILD

MSI GENERAL

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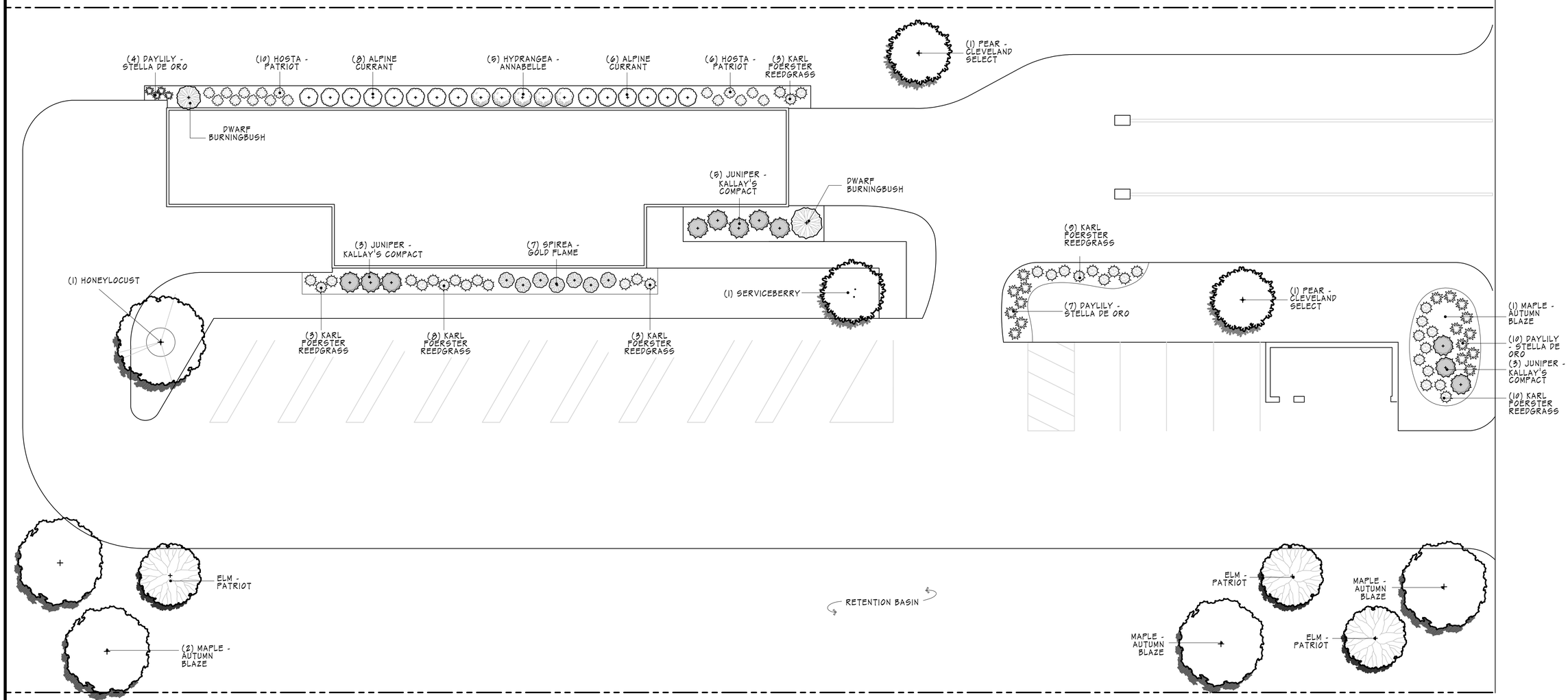
PLANT SCHEDULE				
QUANTITY	COMMON NAME	BOTANICAL NAME	TYPE	INSTALLED SIZE
3	ELM - PATRIOT	Ulmus 'Patriot'	Deciduous Tree	3.5"-4"
1	HONEYLOCUST - SKYLINE	Gleditsia triacanthos 'Skyline'	Deciduous Tree	3.5"-4"
5	MAPLE - AUTUMN BLAZE	Acer × freemanii 'Jeffersred'	Deciduous Tree	3.5"-4"
2	PEAR - CLEVELAND SELECT	Pyrus calleryana 'Cleveland Select'	Deciduous Tree	3.5"-4"
1	SERVICEBERRY - AUTUMN BRILLIANCE	Amelanchier x grandiflora 'Autumn Brilliance'	Deciduous Tree	6-7'
14	ALPINE CURRANT	Ribes alpinum	Deciduous Shrub	18-24"
2	BURNINGBUSH	Euonymus alatus 'Compactus'	Deciduous Shrub	24-30"
5	HYDRANGEA - ANNABELLE	Hydrangea arborescens 'Annabelle'	Deciduous Shrub	18-24"
11	JUNIPER - KALLAY'S COMPACT	Juniperus x pfitzeriana 'Kallay's Compact'	Evergreen Shrub	18-24"
7	SPIREA - GOLDFLAME	Spiraea japnonica 'Goldflame'	Deciduous Shrub	18-24"
21	DAYLILY - STELLA D'ORO	Hemerocallis 'Stella D'Oro'	Flowering Perennial	1 Gallon
16	HOSTA - PATRIOT	Hosta 'Patriot'	Flowering Perennial	1 Gallon
36	KARL FOERSTER REEDGRASS	Calamagrostis acutiflora 'Karl Foerster'	Ornamental Grass	1 Gallon



HAWKS LANDSCAPE INC. SINCE 1875

- LANDSCAPE ARCHITECTURE
- DESIGN & CONSTRUCTION
- LANDSCAPE MAINTENANCE
- TREE CARE & REMOVAL

12217 W. Watertown Plank Rd.
Wauwatosa, WI 53226

Phone: 414-258-5525
Fax: 414-258-9739

hawkslandscape.com
info@hawkslandscape.com

Lake Country Car Wash

CENTER DRIVE - OCONOMOWOC, WI 53066

This plan is the property of Hawks Landscape and cannot be used without written permission.

GARY URBAN
Designed By

7/30/19
Date

1" = 10'
Scale

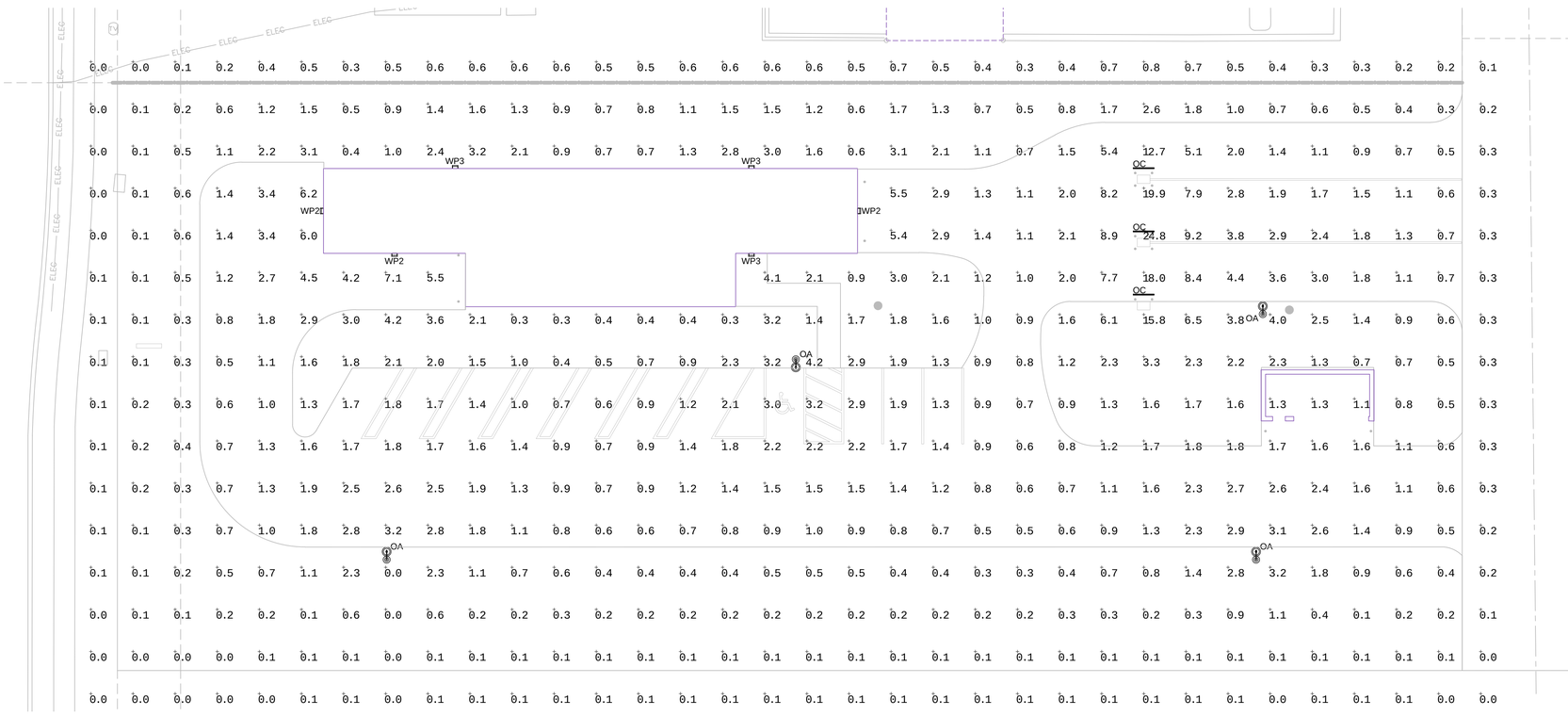
Revisions:

Date:	By:	Description:
9/16/19		
10/31/19		
11/14/19		

Sheet #:_____ of _____

Project: _____

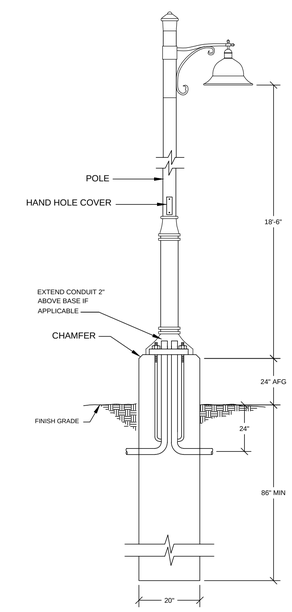
CITY SUBMITTAL 10-30-19



NORTH

SITE PHOTOMETRIC PLAN

1/16" = 1'-0"



TYPICAL POLE BASE DETAIL

NTS

LUMINARE SCHEDULE

QTY	TYPE	DESCRIPTION	LAMP DATA		PART NUMBERS		MOUNTING	VOLTAGE	NOTE
			#	TYPE	MFG	CATALOG #			
4	OA	SINGLE HEAD DECORATIVE POLE	LED	75 WATT LED-4000K-70CRI-8,962 LUMENS	PACIFIC	VAA-75-LED-MT-FT-FG-BK/1ASA/DBR-5N18.6-BK	POLE	120	1,3,7,9,10,11
3	OC	PAY STATION CANOPY 5' STRIP	LED	60 WATT LED-6500K-70CRI-7,500 LUMENS	TSS	LEDC5	CANOPY	120	2,4,8
3	WP2	WALL SCONCE	LED	52 WATT LED-4000K-70CRI-5,316 LUMENS	GARDCO	101L-32L-530-NW-G1-4-UNV-BK	SURFACE	120	1,3,7,11
3	WP3	WALL SCONCE	LED	28 WATT LED-4000K-70CRI-2,687 LUMENS	GARDCO	101L-16L-530-NW-G1-3-UNV-BK	SURFACE	120	1,3,6,11
-	-	-	-	-	-	-	-	-	-

NOTES:
1. 4,000K TEMPERATURE.
2. 6,500K TEMPERATURE.
3. BLACK FINISH.
4. FURNISHED AND INSTALLED BY CAR WASH EQUIPMENT/CANOPY SUPPLIER.
5. TYPE V DISTRIBUTION.
6. TYPE III DISTRIBUTION.
7. TYPE IV DISTRIBUTION.
8. WHITE FINISH.
9. INSTALLED ON 20" DIAMETER CONCRETE BASE 24" ABOVE FINISH GRADE TO TOP OF BASE.
10. FLAT GLASS.
11. LUMINARE TO MATCH VALLEY ROAD COMMONS LUMINARES.

CALCULATION SUMMARY								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
PARKING LOT	Illuminance	Fc	1.73	7.10	0.50	3.46	14.20	
CANOPY	Illuminance	Fc	11.35	24.80	5.10	2.23	4.86	
PROPERTY LINE	Illuminance	Fc	0.22	0.80	0.00	0.00	0.00	

GENERAL NOTES:

1. SWITCH ARC IS DRAWN FOR REFERENCE ONLY AND DOES NOT REPRESENT ACTUAL BRANCH WIRING.
2. ALL NIGHT LIGHTS, EXIT LIGHTS, EBU'S AND OCCUPANCY SENSORS SHALL BE WIRED AHEAD OF ANY LIGHTING CONTROL SYSTEM THE PROJECT MAY CONTAIN.
3. REFER TO SHEET E000 FOR MOUNTING STYLES, HEIGHTS AND FIXTURE PART NUMBERS.
4. RECORD ANY AND ALL CHANGES TO THIS SHEET IN RED PEN FOR AS BUILT PURPOSES. SUBMIT AS BUILTS TO SUPERINTENDENT AT THE END OF THE PROJECT. MAKE REVISIONS AS JOB PROGRESSES NOT ALL AT ONCE IN THE END PLEASE WRITE LEGIBLY.
5. TEST LIGHTS, EXITS, EBU'S AND ALL SWITCHES PRIOR TO THE END OF THE PROJECT AND REPORT ANY FAILED COMPONENTS.
6. PROGRAM AND TEST ALL OCCUPANCY SENSORS AND TIME CLOCKS AND LIGHTING CONTACTORS PRIOR TO THE END OF THE PROJECT AND REPORT ANY FAILED COMPONENTS.
7. INSTALL TYPED PANEL SCHEDULES UPON COMPLETION OF THE PROJECT.
8. INSTALL ALL WALL PLATES LEVEL WITH THE SLOTS OF THE SCREW HEAD IN A VERTICAL POSITION.
9. INSTALL ARC FLASH STICKERS AND PANEL IDENTIFICATION PER NEC.
10. ALL NEW DEVICES MUST MATCH COLOR OF EXISTING DEVICES.

ALL DRAWINGS ARE SCHEMATIC ONLY. THE INSTALLING ELECTRICAL CONTRACTOR SHALL BE THE ENGINEER OF RECORD. THE INSTALLING ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CALCULATIONS, SIZING, ENGINEERING AND MEETING OF NEC.

LYONS ELECTRIC Since 1979 powered by design

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REVISIONS

NO.	DESCRIPTION	DATE
1	BUILDING/SITE UPDATE	103019

FIRM NAME AND ADDRESS:
LYONS ELECTRIC
75 ENTERPRISE ROAD
DELAFIELD, WI 53018

CONTACT INFORMATION:
TIM CARGILL
MAIN:(262)-646-6828
FAX: (262)-646-6829

PROJECT NAME:
PROPOSED BUILDING ADDITION FOR:
LCCW - OCONOMOWOC
OCONOMOWOC, WI 53066

SHEET TITLE:
SITE PHOTOMETRIC PLAN

DRAWN BY: DMG	JOB NUMBER: -
DATE DRAWN: 08-20-19	APPROVED BY: KRK

SHEET 1 OF 1

SHEET #: ES100

SITE LIGHTING SUBMITTAL

To: MSI General
Attn: John Kutz/Stu LaRose

Project: LCCW – Oconomowoc
Oconomowoc, WI 53066

Submittal Number: (1)

Division: Electrical
Specification Section: 26
Description: 26 51 00 – Site Lighting

LYONS ELECTRIC APPROVAL STAMP
X APPROVED
___ APPROVED AS NOTED
___ REVISE & RESUBMIT

Please review and send this submittal back as product will not be ordered until submittal is APPROVED

Date: October 30, 2019

By: *Kevin Konkel*
Kevin Konkel
Design/Estimating Department Manager
Certified Master Electrician
Lyons Electric

PACIFIC LIGHTING & STANDARDS CO
2831 Los Flores Blvd. Lynwood, CA 90262 Tel. 310.603.9344 Fax. 310.603.9421

Type OA
VAA-75-LED-MT-FT-FG-BK
LCCW Oconomowoc

VA

SERIES

Our VA series has a universal appeal that allows any designer to fully integrate this style into a work sight. We have the ability to mount this unit as a pennant, on twin or single arms, to a wall or even as a post top.

The VA Series is another multi-purpose fixture that is available in two sizes. The large unit allows for wide distribution in any parking lot, while the smaller can be a superb accent to walk-ways or lower wattage needs. With our flat glass & a horizontal mounting this model will match your dark sky needs.

CONTEMPORARY

The housing is made of 3/16" minimum cast aluminum wall thickness. Its heavy gauge-spun aluminum hood is welded together into a strong and durable wet-location-rated assembly.

The lamp can be mounted horizontally or vertically, positioned to provide the appropriate IES light distribution.

The reflector is constructed of segmented specular aluminum available in Types 1, 2, 3 FT and 5 light distributions.

All electrical components are UL listed with electromagnetic high power factor ballast for HID lamps in voltages of 120 to 480 or an electronic ballast for compact fluorescent lamp in 120 or 277 volts. Ballasts are mounted on a removable tray for easy maintenance.

Pacific Lighting & Standards Co.

UL LISTED FOR WET LOCATIONS

www.pacificlighting.com

PACIFIC LIGHTING & STANDARDS CO.
2831 Los Flores Blvd. Lynwood, CA 90262 Tel. 310.603.9344 Fax. 310.603.9421

VA SERIES

Housing: Corrosion resistant, cast A356 aluminum alloy, .188" min. wall thickness ballast compartment, and heavy gauge spun aluminum hood.

Lens: Flat tempered glass or convex tempered glass sealed into cast aluminum frame.

Electrical: All electrical components are UL approved.

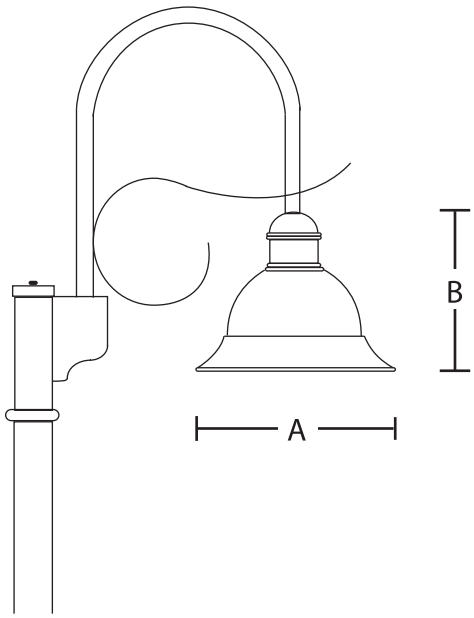
Ballast: High power factor - 20°C starting temperature. The ballast is removable as a unit for easy maintenance.

Reflector: Segmented specular Alzak, available on type 1, 2, 3, FT and 5 light distribution.

Arm: Extrudedand/or cast aluminum.

LED Engine: All LED light boards and drivers are separate and removable for easy maintenance and replacement

Finish: Polyester powder fuse coating is standard; other finishes are available upon request.

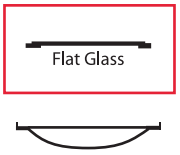


MOD#	WATTAGE	A	.B	EPA
VAA	400 MAX	25"	19"	2.1
VAB	175 MAX	16"	13"	1.3

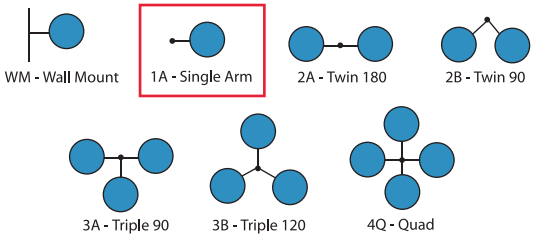
Ordering Information:

1. Model Number
2. Wattage
3. Lamp Type
   - H - Metal Halide
   - S - High Pressure Sodium
   - PS - Pulse Start
   - CF - Compact Fluorescent*
   - LED - Light-emitting diode*
   - IND - Induction
4. Voltage
   - 120, 208, 240, 277, 480 and
   - MT (Multi Tap) - 120, 208, 240, 277
5. Light Distribution
   - 1, 2, 3, FT and 5
6. Lens
   - FG - Flat Glass
   - CG - Convex Glass
7. Mounting Style
8. Arm Style Arm to match Valley Road Commons Projects
9. Finish
   - BK - Black
   - BZ - Bronze
   - GR - Green
   - VG - Verde Green
   - (Other color upon request)
10. Options
   - HS - House Shield
   - FS - Fuse
   - PC - Photo Cell

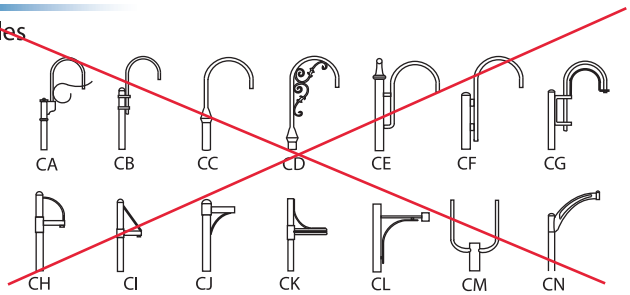
Lenses



Mounting



Arm Styles



1. Mod. #	2. Wattage 3. Lamp Type	4. Voltage	5. Light Dist.	6. Lens	7. Mounting 8. Arm Style	9. Finish	10. Options
VAA	75-LED	MT	5	FG	SEE NOTE	BK	

LED available in VAA model only

DBR
SERIES

CONSTRUCTION:
Durable corrosion, resistant cast aluminum base with two piece cast aluminum base cover. The pole shall be 4"dia. x 3/16" and 5"dia. x 3/16" wall thickness extruded 6063-T6 aluminum alloy.

ANCHOR BOLTS:
3/4" x 16" x 3" up to 18'
and 3/4" x 24" x 3" from 20' up to 25'.
Fabricated from hot rolled steel.
Hot dip galvanized.

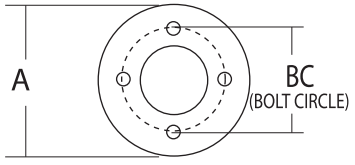
FINISH:
Polyester powder fuse coating.
PP-Primed Painted
BK- Black Paint
BZ - Bronze Paint
GN- Green Paint
VG - Verde Green
(for other colors consult factory)

Ordering Information:

1. Model Number

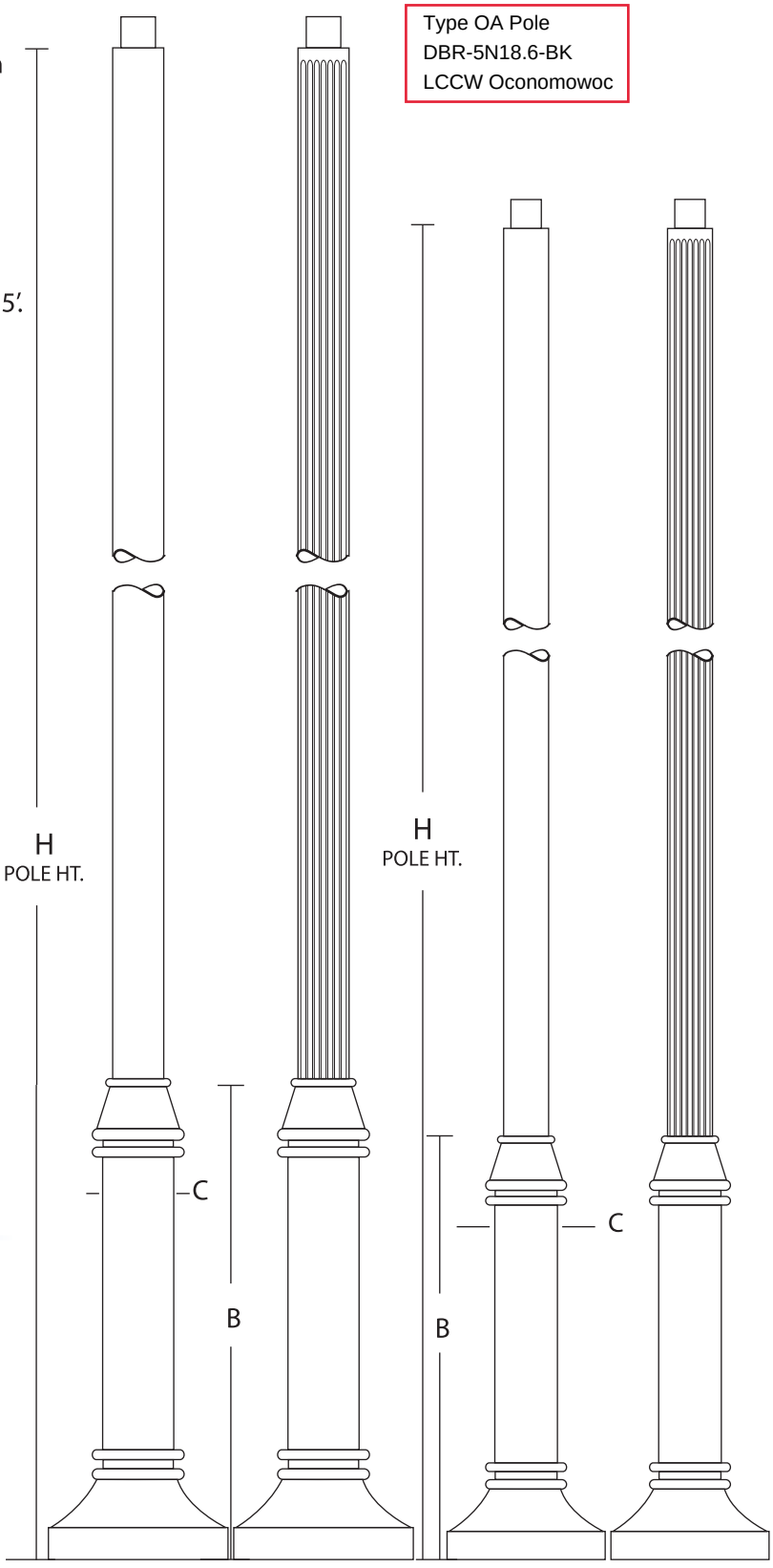
MOD#	H	A	B	C	BC
DBR-4N	16' MAX	16"	36"	6"	9 1/2"
DBR-4F	16' MAX	16"	36"	6"	9 1/2"
DBR-5N	25' MAX	18"	48"	8"	11"
DBR-5F	25' MAX	18"	48"	8"	11"

2. Pole Ht.
3. Finish
4. Options
   DR - Duplex Receptacle
   GFI - Ground Fault Interruptor



1. Mod. #	2. Pole Ht.	3. Finish	4. Options

Type OA Pole
DBR-5N18.6-BK
LCCW Oconomowoc



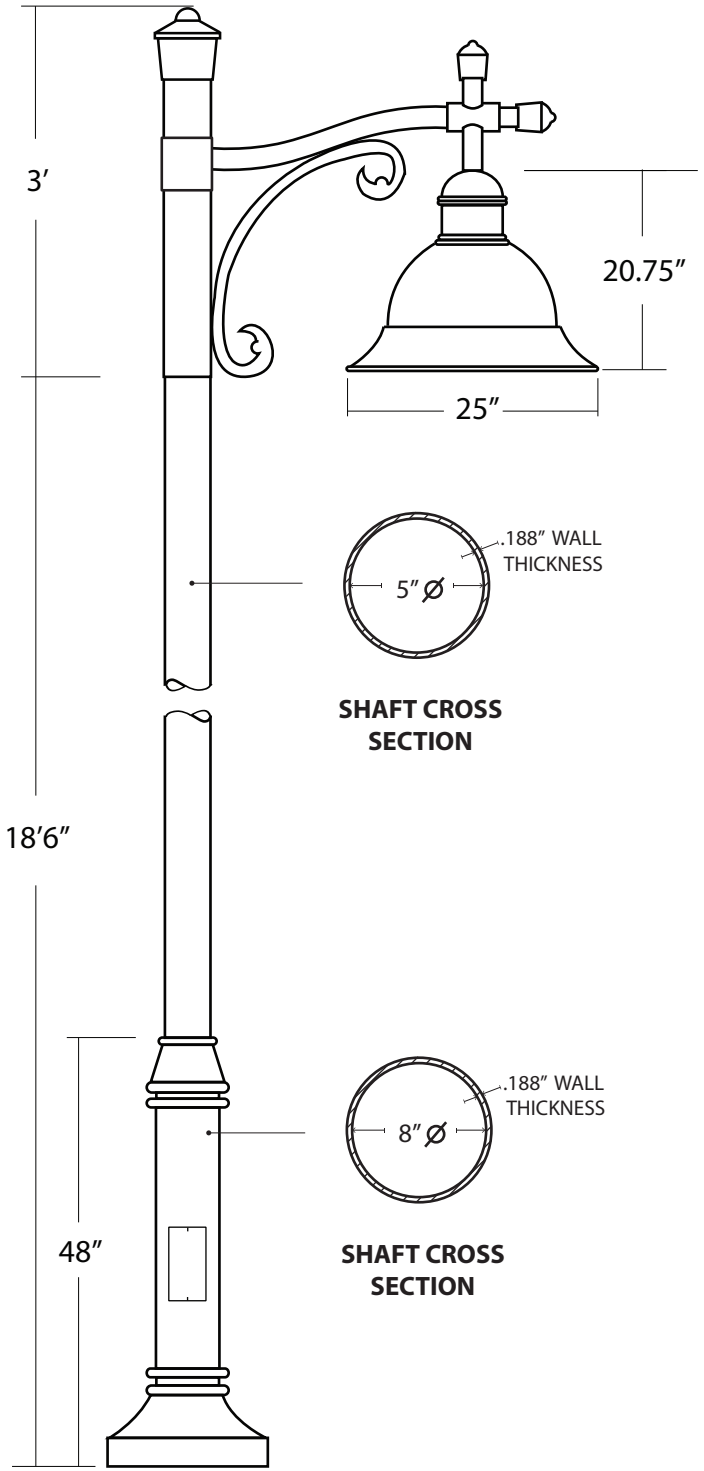
DBR-5N
5" NON - FLUTED

DBR-5F
5" FLUTED

DBR-4N
4" NON - FLUTED

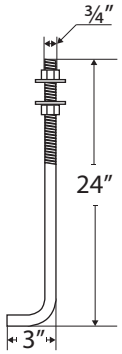
DBR-4F
4" FLUTED

CATALOG NUMBER: VAA-75-LED-MT-FT-FG-1A-SA-DBR-5N-18′6″-BK



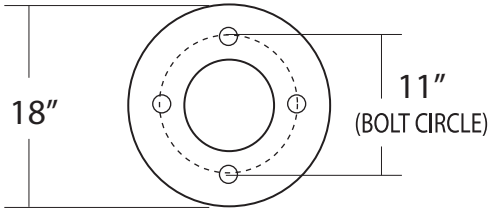
1A - SINGLE ARM

BLACK - BK



ANCHOR BOLTS

Anchor bolts are fabricated from hot rolled steel bar with minimum yield strength of 50,000 psi. These are hot dip galvanized in accordance to ASTM-A-153.



BASE

SPECIFICATIONS

Housing:	Corrosion resistant, cast A256 aluminum alloy, 188″ min wall thickness ballst compartment, and heavy gauge spun aluminum hood.
LED:	75 watts, multi-tap.
Lens:	Flat glass, sealed into cast aluminum frame.
Optics:	Forward throw light distribution.
Arm:	Cast and extruded aluminum.
Pole:	Non-Fluted, decorative pole. Durable corrosion, Resistant cast aluminum base with two piece cast aluminum base cover. The pole shall be 5″ dia. x 3/16″ wall thickness extruded 6063-T6 aluminum alloy.
Finish:	Black polyester powder fuse coating.

LED ENGINE INFORMATION

LUMINOUS FLUX	10519
WATTAGE	75
COLOR TEMPERATURE	4000K
CRI	>77
MILLIAMPS	530
OVERHEATING PROTECTION	YES
OPERATING POSITION	UNIVERSAL
AVERAGE LIFETIME 10% FAILURE	50000 HOURS
DIODE MANUFACTURER	PHILIPS LUXEON REBEL
LUMEN MAINTENANCE AT END OF LIFE	70%
INPUT VOLTAGE	120-277

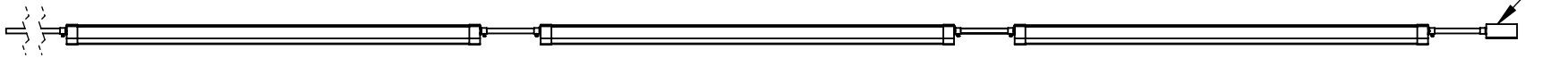
PACIFIC LIGHTING & STANDARDS COMPANY
LYNWOOD, CA
EST. 1984

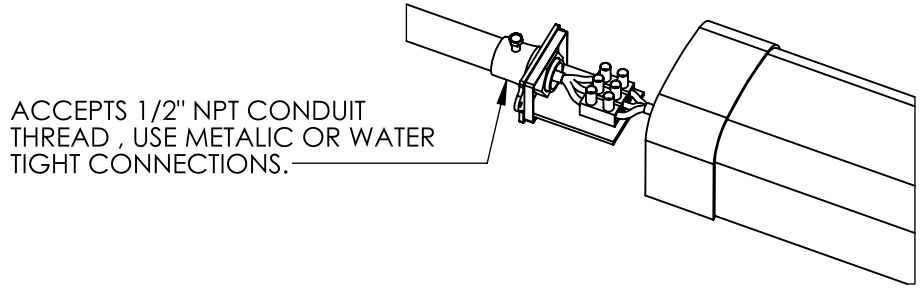
SALES PERSON: JOHN MOORE	DATE:	CATALOG NUMBER: VAA-75-LED-MT-FT-FG-1A-SA-DBR-5N-18′6″-BK
DRAWN BY: JOSEPH	09/17/19	
CHECKED:		PROJECT NAME: LAKE COUNTRY CAR WASH
REVISION:		
APPROVED:		CUSTOMER:
TYPE: / SCALE: NONE	PAGE 1 OF 1	

5 FT WET LOCATION LED LIGHT OPTIONS

Type OC
LEDC5
LCCW Oconomowoc
Furnished and Installed
by Canopy Provider

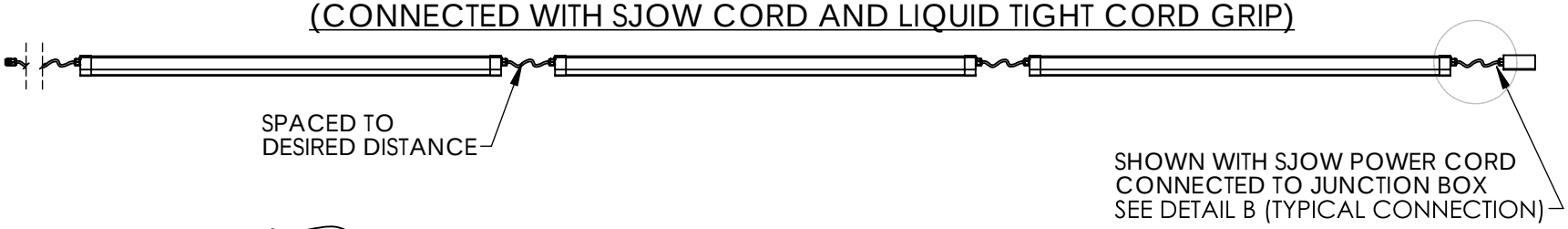
CONDUIT OPTION
(RIGID OR FLEXIBLE)

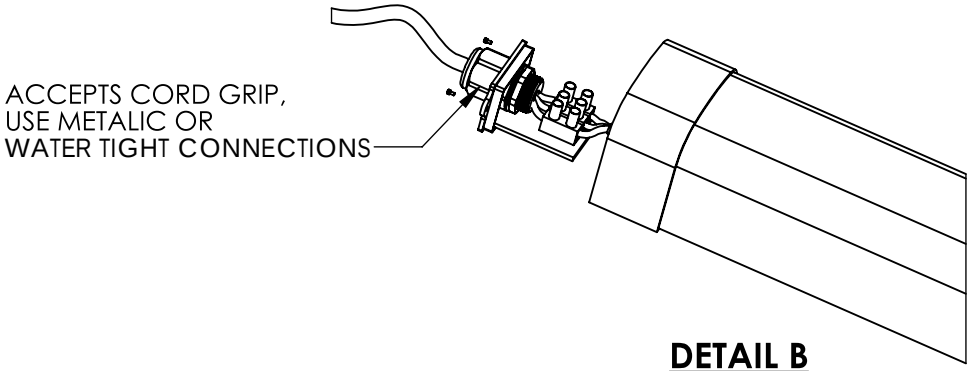




DETAIL A

JUMPER CABLES OPTION
(CONNECTED WITH SJOW CORD AND LIQUID TIGHT CORD GRIP)





DETAIL B

VOLTAGE 100-277 VAC:
WHEN 120 VAC IS USED YOU CAN CONNECT UP TO 6 UNITS
WHEN 240 VAC IS USED YOU CAN CONNECT UP TO 10 UNITS

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	RCK	
CHECKED	ISM	
APPR.	ISM	
MFG APPR.		
Q.A.		

TITLE:

Led-Light-Assembly

SIZE	DWG. NO.	REV
A		

SCALE: 1:50 WEIGHT: SHEET 1 OF 1

5 4 3 2 1

GARDCO by signify

Wall Mount

LED Wall Sconce

101L

Project: LCCW
Location: Oconomowoc
Cat.No: 101L-32L-530-NW-G1-4-UNV-BK
Type: WP2
Lamps: Qty: 3
Notes:

Gardco 101 LED wall sconces feature a low-profile design that provides wide flexibility in high performance exterior wall illumination. Full cutoff performance, usable illumination patterns, and powerful wattages combine into a compact and architecturally pleasing design. 101L sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 9500 lumens. Energy saving control options increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path of egress.

Ordering guide

example: 101L-32L-700-NW-G1-3-120-IMRI2-BZ

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options: Controls	Options: Electrical	Finish
101L									
101L 101L LED Wall Sconce	**16L** 16 LEDs (1 module)	**530** 530mA **650** 650mA[1] **700** 700mA **1000** 1000mA **1200** 1200mA	**CW-G1** Cool White 5700K, 70 CRI Generation 1	**2** Type 2 **3** Type 3 **4** Type 4	**EBPC** Emergency Battery Pack Cold Weather[3,4,6,12] Leave blank to omit an emergency option	**UNV** 120-277V **HVU** 347-480V **120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V	**DD** 0-10V Dimming Driver[5,6] **DCC** Dual Circuit Control[6,7,8] **DynaDimmer:** Automatic Profile Dimming **CS50** Safety 50% Dimming (7 hours)[7,9,10] **CM50** Median 50% Dimming (8 hours)[7,9,10] **CE50** Economy 50% Dimming (9 hours)[7,9,10] **DA50** All Night 50% Dimming[7,9,10] **Photoelectric/Receptacle systems (Twist Lock Receptacle)** **PCB** Photocontrol Button[5,10,11,12] **TLRD5** Twist Lock Receptacle 5-Pin[13] **TLRD7** Twist Lock Receptacle 7-Pin[13] **TLRPC** Twist Lock Receptacle w/ Photocell[11,12,16] **Infrared Motion Response systems** **IMRI2** Integral with #2 lens[9,12,14] **IMRI3** Integral with #4 lens[9,12,14] **Network system (SiteWise)** **SW** SW Integral module[4,17] **Wireless system** **LLC2** Integral module with #2 lens[5,7,9,15] **LLC3** Integral module with #3 lens[5,7,9,15]	**Fusing** **F1** Single (120, 277, 347VAC)[12] **F2** Double (208, 240, 480VAC)[12] **F3** Canadian Double Pull (208, 240, 480VAC)[12]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) **CC** Custom color (Must supply color chip for required factory quote)
	32L 32 LEDs (2 module)	**530** 530mA **650** 650mA[1] **700** 700mA **1000** 1000mA[2]	**NW-G1** Neutral White 4000K, 70 CRI Generation 1 **WW-G1** Warm White 3000K, 70 CRI Generation 1						

1. 650mA only available with Emergency Battery Pack Cold Rated (EBPC) option
2. 32L rated for 30°C at 1000mA
3. Available for use with 16L and 32L in 530mA or 650mA only. Rated for -20°C to 35° C.
4. Available in 120 or 277V only.
5. Not available with Dual Circuit Control (DCC) option.
6. EBPC is not available with DCC.
7. Not available with Dimming Driver (DD) option.
8. Available in 32L with 530mA. Consult technical support center for use with photocell and CS/CM/CE/DA.
9. Available in 120-277V (UNV) only.
10. Not available with LLC, TLR and DCC.
11. Not available with 480V.
12. Must specify input voltage.
13. TLRD5/7 option not available with LLC, PCB, DCC. Works with 3 or 5 pin NEMA photocell dimming. Dimming will not be connected to TLR if ordering with DD, CS/CM/CE/DA and IMRI.
14. Not available with DD, DCC or LLC.
15. LLC2/3 Not available with TLR, PCB, IMRI, CS/CM/CE/DA. Ships with WS accessory attached to wireless module. Not for use with LLCR accessory.
16. Not available with PCB, TLRD5/7, DCC, LLC.
17. SW option is not available with any other control options with the exception of IMRI2, IMRI3 motion response options.

101L Sconce LED

Wall Mount

Luminaire Accessories (order separately)

Mounting accessories

Wall Mount

WS Wall Mounted Box for Surface Conduit

System accessories

Wireless system remote mount module

LLCR2-(F) #2 lens - specify finish in place of (F)
LLCR3-(F) #3 lens - specify finish in place of (F)

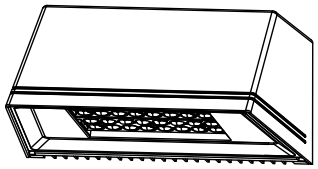
Central Remote Motion Response
(used connected to SiteWise main panel)

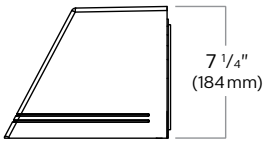
MS2-A-FVR-3
MS2-A-FVR-7

Wireless system remote controller accessory

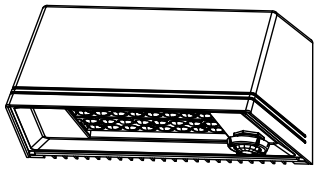
Wireless system offers a remote radio/sensor module that allows to connected to a Limelight system (sold by other). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers. See page 4 for Wireless system details.

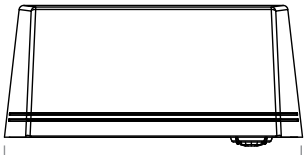
Dimensions

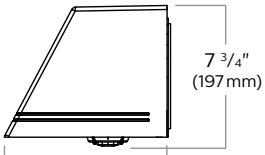




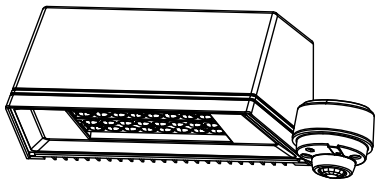
Motion Response

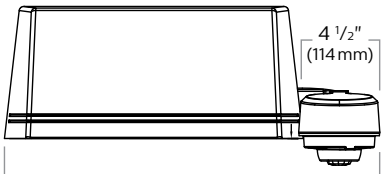


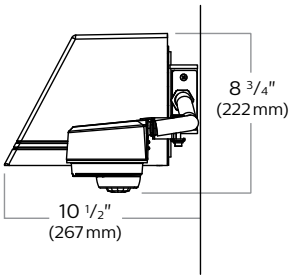


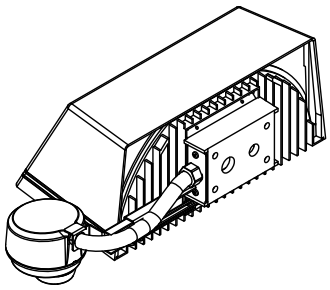


Wireless Controls









Luminaire Weights

LED Wall Sconce 101L	Weight
Luminaire	13.5 lbs
Luminaire - EBPC (EM battery pack)	17.0 lbs
Luminaire - Integrated system controls	16.3 lbs

101L Sconce LED

Wall Mount

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts[1]	Type 2			Type 3			Type 4		
					Lumen Output[1,2]	BUG Rating	Efficacy (LPW)	Lumen Output[1,2]	BUG Rating	Efficacy (LPW)	Lumen Output[1,2]	BUG Rating	Efficacy (LPW)
101L-16L-530-NW-G1	16	530	4000K	28	2944	B1-U0-G0	106	2687	B1-U0-G1	97	2747	B1-U0-G1	99
101L-16L-700-NW-G1	16	700	4000K	37	3789	B1-U0-G1	103	3458	B1-U0-G1	94	3535	B1-U0-G1	96
101L-16L-1000-NW-G1	16	1000	4000K	55	5050	B1-U0-G1	92	4609	B1-U0-G1	84	4712	B1-U0-G1	86
101L-16L-1200-NW-G1	16	1200	4000K	65	5744	B2-U0-G1	89	5242	B1-U0-G2	81	5359	B1-U0-G2	83
101L-32L-530-NW-G1	32	530	4000K	52	5698	B2-U0-G1	110	5200	B1-U0-G2	100	5316	B1-U0-G2	102
101L-32L-700-NW-G1	32	700	4000K	70	7242	B2-U0-G1	103	6609	B1-U0-G2	94	6757	B1-U0-G2	96
101L-32L-1000-NW-G1	32	1000	4000K	107	9797	B2-U0-G1	92	8941	B2-U0-G2	84	9140	B2-U0-G2	86

LED Wattage and Lumen Values (Emergency Mode)[3]

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Ave. System Watts (charging mode)	Type 2	Type 3	Type 4
101L-16L-NW-EBPC	16	N/A	4000K	14	1345	1228	1255
101L-32L-NW-EBPC	32	N/A	4000K	14	1754	1600	1636

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
3. For emergency EBPC option, publish values are based on initial lumens.

Luminaire options

DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

Dynadimmer Automatic Profile Dimming: Automatic dimming profiles (CS50/CM50/CE50) offer safety, median, or economy settings, for shorter or longer duration. Dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. 50% dimming is standard. DA50 offers 50% instantaneous dimming all night (during all dark hours). Other dimming settings are also available if different light levels are required (contact Technical Support for details).

Profile	Dimming		
	Schedule	Duration	Level
Economy	9 PM - 6 AM	9 hours	50%
Median	10 PM - 6 AM	8 hours	50%
Safety	11 PM - 6 AM	7 hours	50%
Reactive 50	all night	dynamic	50%

TLRD5: Twist Lock Receptacle with 5 pins enabling dimming, can be used with a twistlock photoelectric cell or a shorting cap. Can also be used with third party control system.

TLRD7: Twist Lock Receptacle with 7 pins enabling dimming and additional functionality, can be used with twistlock photoelectric cell or a shorting cap. Can also be used with third party control system.

TLRDPC: Receptacle with twistlock photoelectric cell (must specify voltage). Receptacle located on top of luminaire housing.

IMRI2, IMRI3: Infrared Motion Response Integral (IMRI). IMRI module is mounted integral to the luminaire door and is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges (see charts for approximate detection patterns). Motion response used in combination of Dynadimmer and SiteWise are not programmable and used to override controllers schedule when motion is detected. When used not combined with any controller, IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to 100% light output. Dimming on low is factory set to 50% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50% of the normal constant wattage reducing the light level. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected. Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens choice specified. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FS1R-100 remote programming tool accessory.

DCC: Dual Circuit Control permits separate switching of 32L models only, where a quantity of (2) 16 LED modules are controlled independently by use of two sets of leads, one for each module.

SW

SiteWise option is a fully integrated controller that connects to SiteWise system in order to offer a complete area lighting management system. The communication signal is based on patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

Wireless system: 101L luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to Wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely.
Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless System can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor.

Luminaire options (continued)

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

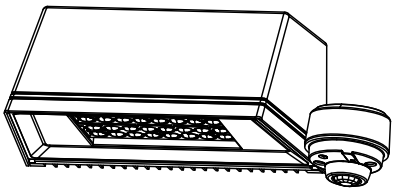
F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

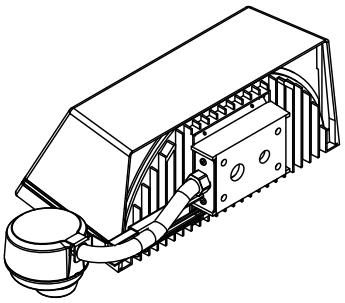
EBPC: Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire , allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Dual light engines (32L) are wired in parallel, both operating in emergency mode to meet various redundancy lamp requirements. Also available with single light engine (16L). Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost.

Infrared Motion Response and Wireless system sensor coverage patterns

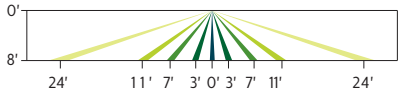
LLC2/3 Luminaire mounted controller

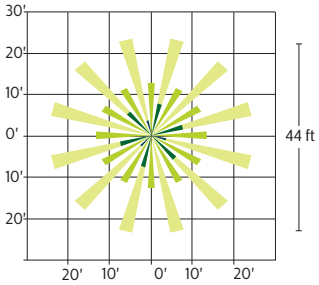
Controller attached to luminaire and Includes radio, photocell and motion sensor with #2 or #3 lens for 8-20' mounting heights.



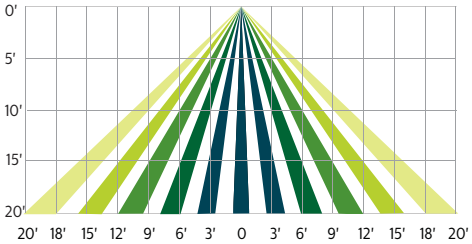


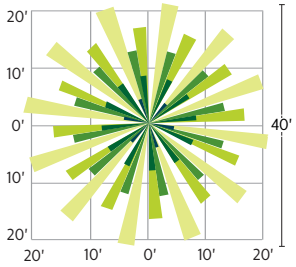
IMRI2/LLC2/LLCR2





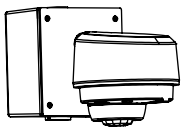
IMRI3/LLC3/LLCR3



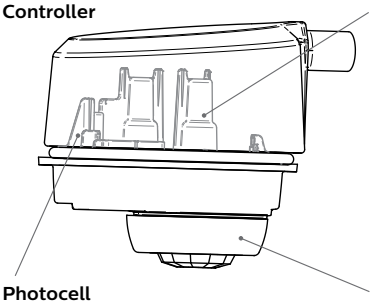


Remote Mount Wireless Controller

Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.



Controller



Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Motion Response

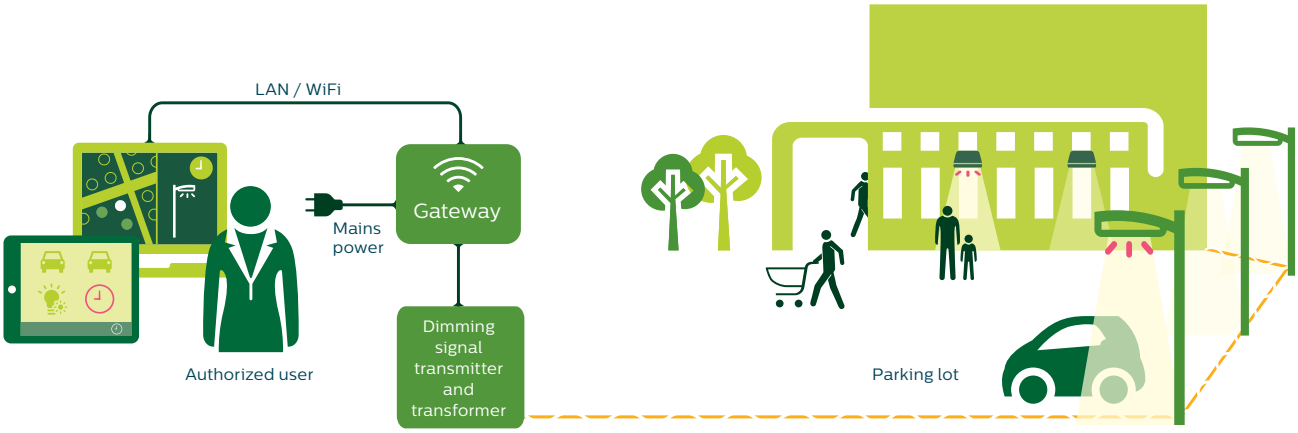
- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

Wall Mount

SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface

SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at **philips.com/sitewise**

Wall Mount

Specifications

Housing

Main body cast housing and back plate made of a low copper die cast Aluminum alloy for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Hinged door allows access to driver and LED compartment.

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Luminaire ships fully assembled, ready to install.

Light Engine

Composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. IP66 sealed light engines. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Heat Sink

Integral door/heat sink design made of low copper die cast Aluminum alloy for a high resistance to corrosion.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000K nominal (+/- 275K), CRI 70 Min. Available in other color temperatures including Cool White, 5700K and Warm White, 3000K.

SiteWise Network System

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Hardware

All exposed screws shall be stainless and/or corrosion resistant and captive.

Optical System

The advanced LED optical systems provide IES Types 2, 3, 4. Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark sky compliant with 0% uplight and U0 per IESNA TM-15.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge Protection

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

Wiring (supplied by others)

Splices must be made in the junction box.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint 2.5 mils minimum. The thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. RAL and custom color matching available.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

LED Useful Life

Luminaire Useful Life accounts for LED lumen maintenance. Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, LED LM-80/TM-21, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C.

Certifications and Compliance

cULus Listed for Canada and USA suitable for wet locations when mounted downward facing. cULus Listed for Canada and USA suitable for damp locations when inverted upward facing when mounted in covered ceiling application. Emergency Battery Pack option is tested and listed to UL924 and CSA C22.2 No. 141-10 DesignLights Consortium qualified on models as listed on DLC QPL. Luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F).

Limited Warranty

5-year limited warranty. See philips.com/warranties for details and restrictions.
Visit our eCatalog or contact your local sales representative for more information.

Wall Mount

LED Performance

Predicted lumen depreciation data[1]				
Ambient Temperature (°C)	Driver mA	Calculated L_{70} hours[1,2]	L_{70} per TM-21[2,3]	Lumen Maintenance % @ 60,000 hours
25°C	up to 1200 mA	>100,000	>60,000	88%

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

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281 Hillmount Rd, Markham, ON,
Canada L6C 2S3
Tel. 800-668-9008

GARDCO by signify

Wall Mount

LED Wall Sconce

101L

Project:	LCCW
Location:	Oconomowoc
Cat.No:	101L-32L-530-NW-G1-3-UNV-BK
Type:	WP3
Lamps:	Qty: 3
Notes:	

Gardco 101 LED wall sconces feature a low-profile design that provides wide flexibility in high performance exterior wall illumination. Full cutoff performance, usable illumination patterns, and powerful wattages combine into a compact and architecturally pleasing design. 101L sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 9500 lumens. Energy saving control options increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path of egress.

Ordering guide

example: 101L-32L-700-NW-G1-3-120-IMRI2-BZ

Prefix	Number of LEDs	Drive Current	LED Color - Generation	Distribution	Emergency	Voltage	Options: Controls	Options: Electrical	Finish
101L									
101L 101L LED Wall Sconce	**16L** 16 LEDs (1 module)	**530** 530mA **650** 650mA[1] **700** 700mA **1000** 1000mA **1200** 1200mA	**CW-G1** Cool White 5700K, 70CRI Generation 1 **NW-G1** Neutral White 4000K, 70CRI Generation 1 **WW-G1** Warm White 3000K, 70CRI Generation 1	**2** Type 2 **3** Type 3 **4** Type 4	**EBPC** Emergency Battery Pack Cold Weather[3,4,6,12] Leave blank to omitt an emergency option	**UNV** 120-277V **HVU** 347-480V **120** 120V **208** 208V **240** 240V **277** 277V **347** 347V **480** 480V	**DD** 0-10V Dimming Driver[5,6] **DCC** Dual Circuit Control[6,7,8] **DynaDimmer:** Automatic Profile Dimming **CS50** Safety 50% Dimming (7 hours)[7,9,10] **CM50** Median 50% Dimming (8 hours)[7,9,10] **CE50** Economy 50% Dimming (9 hours)[7,9,10] **DA50** All Night 50% Dimming[7,9,10] **Photoelectric/Receptacle systems (Twist Lock Receptacle)** **PCB** Photocontrol Button[5,10,11,12] **TLRD5** Twist Lock Receptacle 5-Pin[13] **TLRD7** Twist Lock Receptacle 7-Pin[13] **TLRPC** Twist Lock Receptacle w/ Photocell[11,12,16] **Infrared Motion Response systems** **IMRI2** Integral with #2 lens[9,12,14] **IMRI3** Integral with #4 lens[9,12,14] **Network system (SiteWise)** **SW** SW Integral module[4,17] **Wireless system** **LLC2** Integral module with #2 lens[5,7,9,15] **LLC3** Integral module with #3 lens[5,7,9,15]	**Fusing** **F1** Single (120, 277, 347VAC)[12] **F2** Double (208, 240, 480VAC)[12] **F3** Canadian Double Pull (208, 240, 480VAC)[12]	**Textured** **BK** Black **WH** White **BZ** Bronze **DGY** Dark Gray **MGY** Medium Gray **Customer specified** **RAL** Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) **CC** Custom color (Must supply color chip for required factory quote)
	32L 32 LEDs (2 module)	**530** 530mA **650** 650mA[1] **700** 700mA **1000** 1000mA[2]							

1. 650mA only available with Emergency Battery Pack Cold Rated (EBPC) option
2. 32L rated for 30°C at 1000mA
3. Available for use with 16L and 32L in 530mA or 650mA only. Rated for -20°C to 35° C.
4. Available in 120 or 277V only.
5. Not available with Dual Circuit Control (DCC) option.
6. EBPC is not available with DCC.
7. Not available with Dimming Driver (DD) option.
8. Available in 32L with 530mA. Consult technical support center for use with photocell and CS/CM/CE/DA.
9. Available in 120-277V (UNV) only.
10. Not available with LLC, TLR and DCC.
11. Not available with 480V.
12. Must specify input voltage.
13. TLRD5/7 option not available with LLC, PCB, DCC. Works with 3 or 5 pin NEMA photocell dimming. Dimming will not be connected to TLR if ordering with DD, CS/CM/CE/DA and IMRI.
14. Not available with DD, DCC or LLC.
15. LLC2/3 Not available with TLR, PCB, IMRI, CS/CM/CE/DA. Ships with WS accessory attached to wireless module. Not for use with LLCR accessory.
16. Not available with PCB, TLRD5/7, DCC, LLC.
17. SW option is not available with any other control options with the exception of IMRI2, IMRI3 motion response options.

101L Sconce LED

Wall Mount

Luminaire Accessories (order separately)

Mounting accessories

Wall Mount

WS Wall Mounted Box for Surface Conduit

System accessories

Wireless system remote mount module

LLCR2-(F) #2 lens - specify finish in place of (F)
LLCR3-(F) #3 lens - specify finish in place of (F)

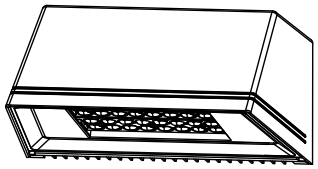
Central Remote Motion Response
(used connected to SiteWise main panel)

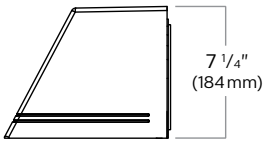
MS2-A-FVR-3
MS2-A-FVR-7

Wireless system remote controller accessory

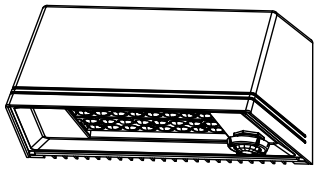
Wireless system offers a remote radio/sensor module that allows to connected to a Limelight system (sold by other). Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers. See page 4 for Wireless system details.

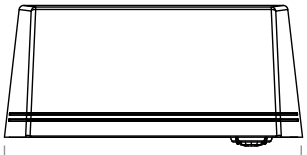
Dimensions

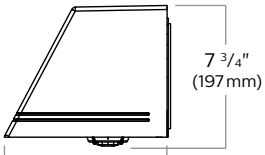




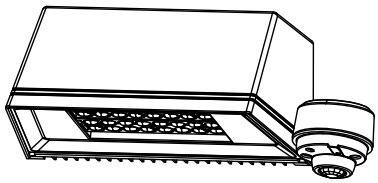
Motion Response

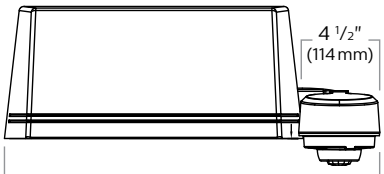


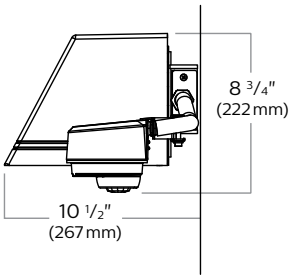


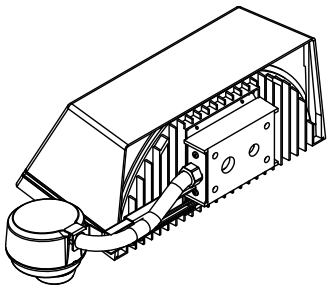


Wireless Controls









Luminaire Weights

LED Wall Sconce 101L	Weight
Luminaire	13.5 lbs
Luminaire - EBPC (EM battery pack)	17.0 lbs
Luminaire - Integrated system controls	16.3 lbs

101L Sconce LED

Wall Mount

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts[1]	Type 2			Type 3			Type 4		
					Lumen Output[1,2]	BUG Rating	Efficacy (LPW)	Lumen Output[1,2]	BUG Rating	Efficacy (LPW)	Lumen Output[1,2]	BUG Rating	Efficacy (LPW)
101L-16L-530-NW-G1	16	530	4000K	28	2944	B1-U0-G0	106	2687	B1-U0-G1	97	2747	B1-U0-G1	99
101L-16L-700-NW-G1	16	700	4000K	37	3789	B1-U0-G1	103	3458	B1-U0-G1	94	3535	B1-U0-G1	96
101L-16L-1000-NW-G1	16	1000	4000K	55	5050	B1-U0-G1	92	4609	B1-U0-G1	84	4712	B1-U0-G1	86
101L-16L-1200-NW-G1	16	1200	4000K	65	5744	B2-U0-G1	89	5242	B1-U0-G2	81	5359	B1-U0-G2	83
101L-32L-530-NW-G1	32	530	4000K	52	5698	B2-U0-G1	110	5200	B1-U0-G2	100	5316	B1-U0-G2	102
101L-32L-700-NW-G1	32	700	4000K	70	7242	B2-U0-G1	103	6609	B1-U0-G2	94	6757	B1-U0-G2	96
101L-32L-1000-NW-G1	32	1000	4000K	107	9797	B2-U0-G1	92	8941	B2-U0-G2	84	9140	B2-U0-G2	86

LED Wattage and Lumen Values (Emergency Mode)[3]

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Ave. System Watts (charging mode)	Type 2	Type 3	Type 4
101L-16L-NW-EBPC	16	N/A	4000K	14	1345	1228	1255
101L-32L-NW-EBPC	32	N/A	4000K	14	1754	1600	1636

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
3. For emergency EBPC option, publish values are based on initial lumens.

Luminaire options

DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

Dynadimmer Automatic Profile Dimming: Automatic dimming profiles (CS50/CM50/CE50) offer safety, median, or economy settings, for shorter or longer duration. Dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. 50% dimming is standard. DA50 offers 50% instantaneous dimming all night (during all dark hours). Other dimming settings are also available if different light levels are required (contact Technical Support for details).

Profile	Dimming		
	Schedule	Duration	Level
Economy	9 PM - 6 AM	9 hours	50%
Median	10 PM - 6 AM	8 hours	50%
Safety	11 PM - 6 AM	7 hours	50%
Reactive 50	all night	dynamic	50%

TLRD5: Twist Lock Receptacle with 5 pins enabling dimming, can be used with a twistlock photoelectric cell or a shorting cap. Can also be used with third party control system.

TLRD7: Twist Lock Receptacle with 7 pins enabling dimming and additional functionality, can be used with twistlock photoelectric cell or a shorting cap. Can also be used with third party control system.

TLRDPC: Receptacle with twistlock photoelectric cell (must specify voltage). Receptacle located on top of luminaire housing.

IMRI2, IMRI3: Infrared Motion Response Integral (IMRI). IMRI module is mounted integral to the luminaire door and is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges (see charts for approximate detection patterns). Motion response used in combination of Dynadimmer and SiteWise are not programmable and used to override controllers schedule when motion is detected. When used not combined with any controller, IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to 100% light output. Dimming on low is factory set to 50% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50% of the normal constant wattage reducing the light level. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected. Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens choice specified. Available from 120V to 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FS1R-100 remote programming tool accessory.

DCC: Dual Circuit Control permits separate switching of 32L models only, where a quantity of (2) 16 LED modules are controlled independently by use of two sets of leads, one for each module.

SW

SiteWise option is a fully integrated controller that connects to SiteWise system in order to offer a complete area lighting management system. The communication signal is based on patented central dimming technology. SiteWise delivers it deliver optimal energy savings using your site's existing cabling. No additional wiring required, installation and commissioning are simple. An intuitive, mobile app makes it easy for authorized users to set schedules to meet site specific lighting needs, local regulations, and energy codes.

Wireless system: 101L luminaires are available with optional wireless controllers ready to be connected to a Limelight system (sold by other). The system allows you to Wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely.
Based on a high density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless System can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor.

Luminaire options (continued)

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

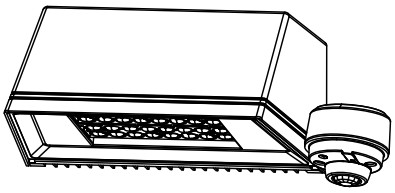
F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

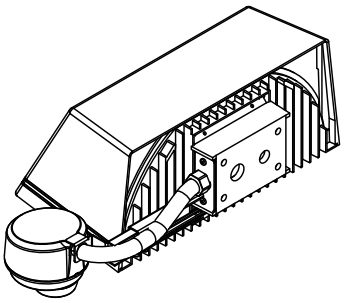
EBPC: Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire , allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Dual light engines (32L) are wired in parallel, both operating in emergency mode to meet various redundancy lamp requirements. Also available with single light engine (16L). Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost.

Infrared Motion Response and Wireless system sensor coverage patterns

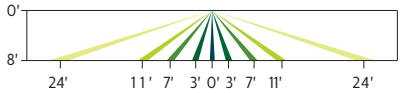
LLC2/3 Luminaire mounted controller

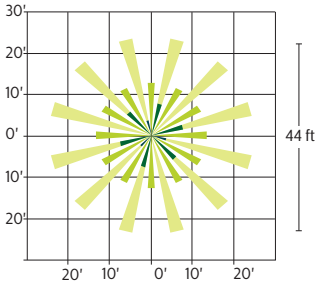
Controller attached to luminaire and Includes radio, photocell and motion sensor with #2 or #3 lens for 8-20' mounting heights.



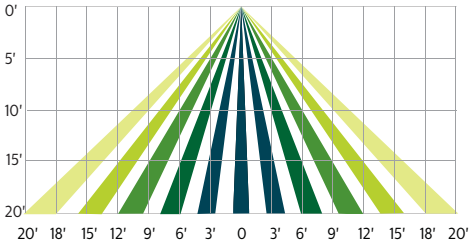


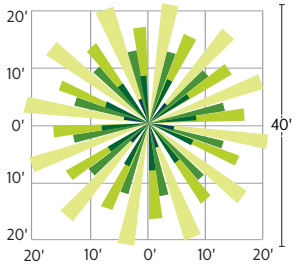
IMRI2/LLC2/LLCR2





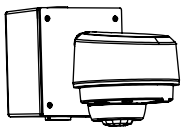
IMRI3/LLC3/LLCR3



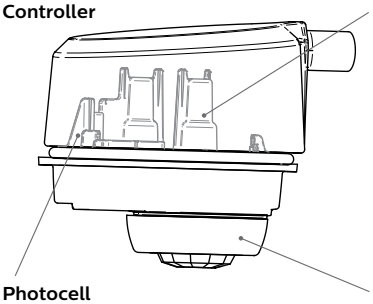


Remote Mount Wireless Controller

Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.



Controller



Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Motion Response

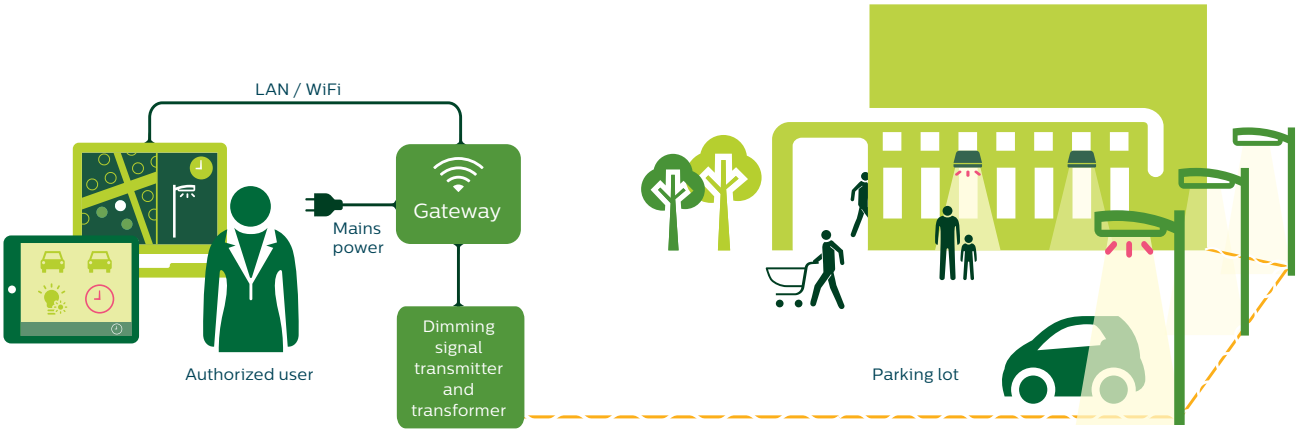
- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

Wall Mount

SiteWise system

SiteWise is a complete area lighting management system including a luminaire integrated controller, dimming signal transmitter cabinet, and locally accessible user interface. Installation and commissioning are simple. The cabinet communicates with the luminaires using a patented central dimming technology. The control signal is embedded on the existing electrical line – no new cabling is required. An intuitive, locally accessible interface makes it easy for authorized users to set schedules in order to meet site specific lighting needs, local regulations, and energy codes.

SiteWise system diagram



SiteWise system interface

SiteWise has an intuitive user interface that makes it easy to plan, edit, and implement lighting schedules for your site. Authorized users can access the interface via a local app.

To ensure that only authorized users can access your lighting, SiteWise offers two user types, each with different permissions. An advanced user, or administrator, can set and edit schedules using the ten pre-set scenes, assign those schedules to calendar days, and check system status.

For everyday use, a basic user can manually override a schedule that is currently running but cannot create or edit schedules.

SiteWise system specifications

The SiteWise system includes both luminaires and controls. The controls used for SiteWise are circuit load dependent. Required for a complete installation are the following SiteWise components: user interface, control kit, dimming signal transmitter cabinet, and dimming signal receiver located in the luminaire (**SW** option). Optional luminaire-integrated or external motion sensors may also be specified as required. Within the electrical closet, the control kit and dimming signal transmitter cabinet are installed into the electrical system between the existing breaker panel and the site luminaires. New LED luminaires containing the dimming signal receiver are installed on the site. Once completed, use of the interface allows for scheduling and override capabilities. Wireless access point and tablet should be supplied by others. Complete information on the control system can be found on the SiteWise website at **philips.com/sitewise**

Wall Mount

Specifications

Housing

Main body cast housing and back plate made of a low copper die cast Aluminum alloy for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Hinged door allows access to driver and LED compartment.

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Luminaire ships fully assembled, ready to install.

Light Engine

Composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. IP66 sealed light engines. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Heat Sink

Integral door/heat sink design made of low copper die cast Aluminum alloy for a high resistance to corrosion.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000K nominal (+/- 275K), CRI 70 Min. Available in other color temperatures including Cool White, 5700K and Warm White, 3000K.

SiteWise Network System

SiteWise system includes a controller fully integrated in the luminaire that enables the luminaires to communicate with a dimming signal transmitter cabinet located on site using patented central dimming technology. A locally accessible mobile app allows users to access the system and set functionalities such as ON/OFF, dimming levels and scheduling. SiteWise is available with motion response options in order to bring the light back to 100% when motion is detected. Additional functionalities are available such as communication with indoor lighting and connection to BMS systems.

Hardware

All exposed screws shall be stainless and/or corrosion resistant and captive.

Optical System

The advanced LED optical systems provide IES Types 2, 3, 4. Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark sky compliant with 0% uplight and U0 per IESNA TM-15.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge Protection

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

Wiring (supplied by others)

Splices must be made in the junction box.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint 2.5 mils minimum. The thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. RAL and custom color matching available.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

LED Useful Life

Luminaire Useful Life accounts for LED lumen maintenance. Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, LED LM-80/TM-21, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C.

Certifications and Compliance

cULus Listed for Canada and USA suitable for wet locations when mounted downward facing. cULus Listed for Canada and USA suitable for damp locations when inverted upward facing when mounted in covered ceiling application. Emergency Battery Pack option is tested and listed to UL924 and CSA C22.2 No. 141-10 DesignLights Consortium qualified on models as listed on DLC QPL. Luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F).

Limited Warranty

5-year limited warranty. See philips.com/warranties for details and restrictions.
Visit our eCatalog or contact your local sales representative for more information.

Wall Mount

LED Performance

Predicted lumen depreciation data[1]				
Ambient Temperature (°C)	Driver mA	Calculated L_{70} hours[1,2]	L_{70} per TM-21[2,3]	Lumen Maintenance % @ 60,000 hours
25°C	up to 1200 mA	>100,000	>60,000	88%

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

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PLANNING DEPARTMENT

Architectural Building Review

Department of City Planning
174 E. Wisconsin Avenue Oconomowoc, WI
www.oconomowoc-wi.gov | 262.569.2166

The following information is required to be included and explained in your submittal. The submittal shall be 12 copies (no larger than 11"x17") and collated:

- ☐ This Application and $75 Application Fee
- ☐ Project Summary / Narrative
- ☐ Overall site and building plan(s)
- ☐ Building elevation(s) to scale with dimensions
  - Identify true elevation markers and overall building height
  - Identify all building materials *(i.e. maker, color specs)*
- ☐ Color renderings of building elevation(s)
- ☐ Dumpster plan(s) and enclosure details *(i.e. colors, materials)*
- ☐ Exterior lighting plan(s) and details
- ☐ Landscaping plan and plant list
- ☐ [Email] All of the above in .pdf format (under 5MB) to Planning Staff
  - Jason Gallo, City Planner: JGallo@oconomowoc-wi.gov | phone: 262-569-2166
  - Kristi Weber, Planner: KWeber@oconomowoc-wi.gov | phone: 262-569-2173
- ☐ [At Meeting] Provide and present all building materials and color samples for project

Name of Applicant requesting the review: Tom Kelenic
Applicant's Address *(include city, state and zip code)*: S20W7809 Kame Terrace, Waukesha, WI 53188
Applicant's telephone number: 262-617-0291
Applicant's email address: tkelenic@yahoo.com

Name of Establishment requesting the review: Blue Ribbon Baseball / Diamond Club Ent.
Address of Establishment *(include city, state and zip code)*: S20W7809 Kame Terrace, Waukesha, 53188
Name of Establishment's primary contact: Tom Kelenic
Primary contact's telephone number: 262-617-0291
Primary contact's email address: tkelenic@yahoo.com

Property Owner of establishment requesting the review: Pabst Farms Land Company II, LLC
Property Owner's Address *(include city, state and zip code)*: 1370 Pabst Farms Circle #350, Oconomowoc 53066
Property Owner's telephone number: 262-200-2000
Property Owner's email address: whiemann@pabstfarms.com

Desired Start Date: April 1, 2020 **Anticipated** Completion Date: April 1, 2021

Zoning of Property: Commercial In the **Downtown District**? *(yes/no)* ND **-OR-** on the **Isthmus**? *(yes/no)* _____

Describe the following *(if needed, attach additional supporting sheets/details)*:

- Roof Pitch / Material(s) / Color(s): Flat Roof / Rubber Membrane
- Window Glass / Framing: Low E, Steel Shell
- Type of HVAC system *(ground units / wall packs / venting on elevations?)* Roof top Units

Are there building mechanicals/equipment/lighting on the roof screened? *(yes/no)* yes

As Applicant/Agent/Property Owner, I agree to conform to the approval given by the City Planner/Architectural Commission.

Tom Kelenic
Signature

12-26-19
Date

.\Title Block\JDE_Logo 2.png

SITE INFORMATION

IMPERVIOUS AREA = 740,000 SF
NUMBER PARKING STALLS = 872
NUMBER HANDICAP STALLS = 20

LEGEND

1.5" CALIPER MAPLE 12 @ 30 = 360 PTS

5' TALL BLUE SPRUCE 10 @ 40 = 400 PTS

SITE PLAN FOR
BLUE RIBBON BASEBALL
OCONOMOWOC, WI

LYNCH & ASSOCIATES
ENGINEERING CONSULTANTS, LLC

SITE PLAN

NO.	REVISIONS	BY	DATE

ISSUED FOR REVIEW

PLAN DATE 11.08.19
DESIGNED BY JRM

0 100'
SCALE

PROJECT NO.
19-5050

SHEET NO.
C1

FILENAME: \\15BLUEPRINT\J.D.E. Projects\Jendusa Design & Engineering Projects\Northwoods Baseball Stadium\Oconomowoc\Lake Country Ballpark Site Plan Color 12-26-19.dwg

PLOT DATE: 12/26/2019 3:18 PM

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Ball Park

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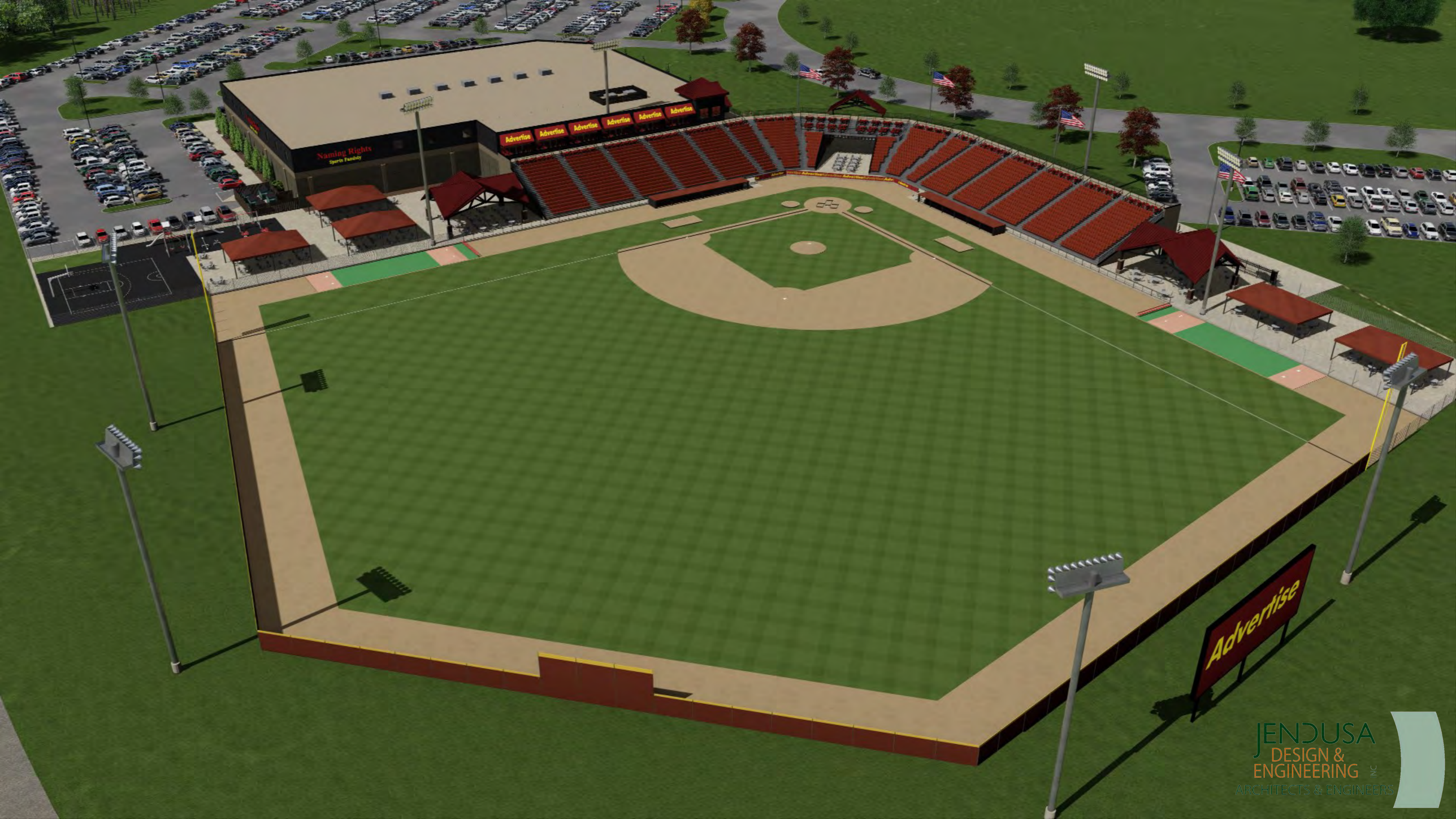
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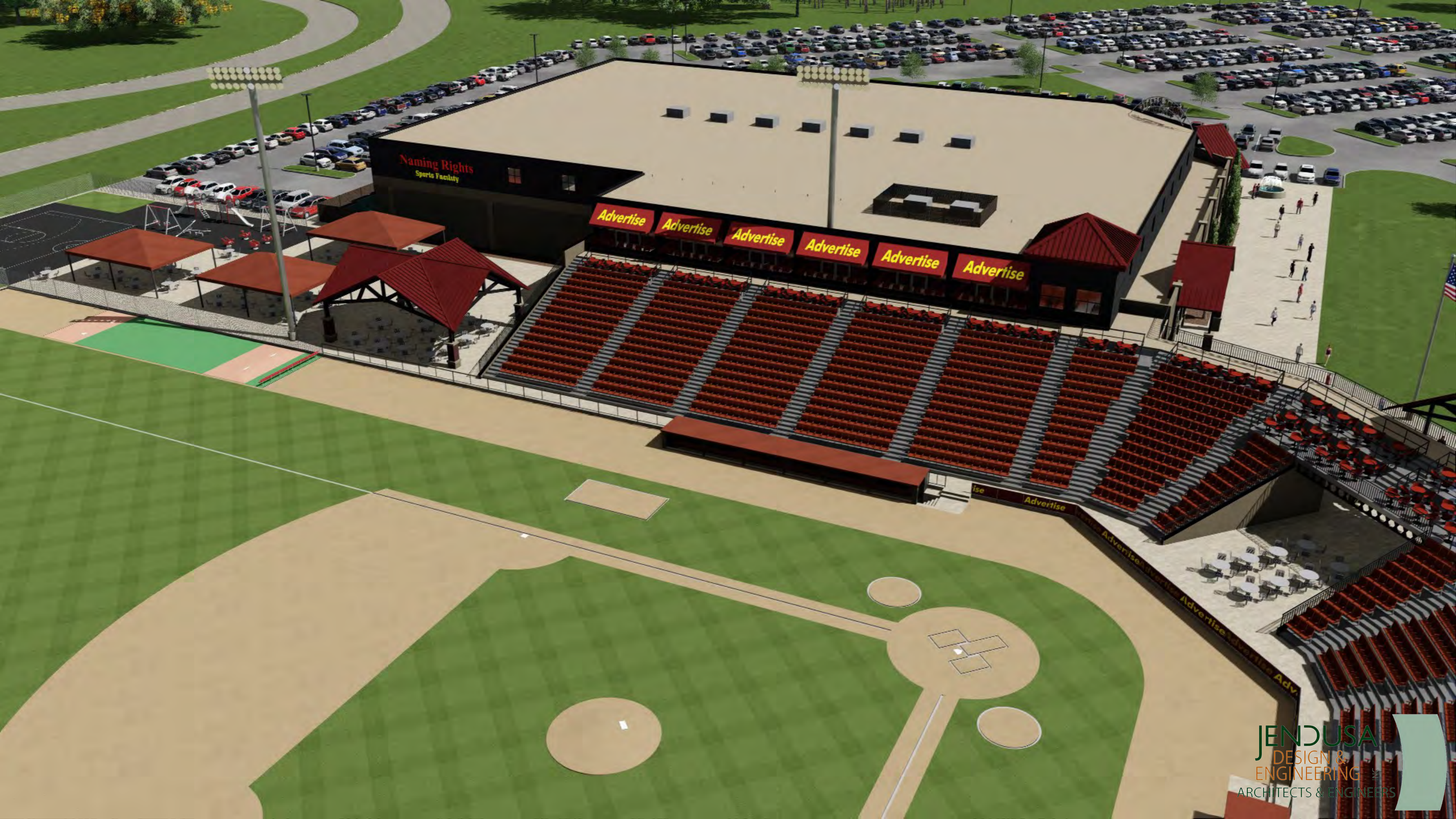

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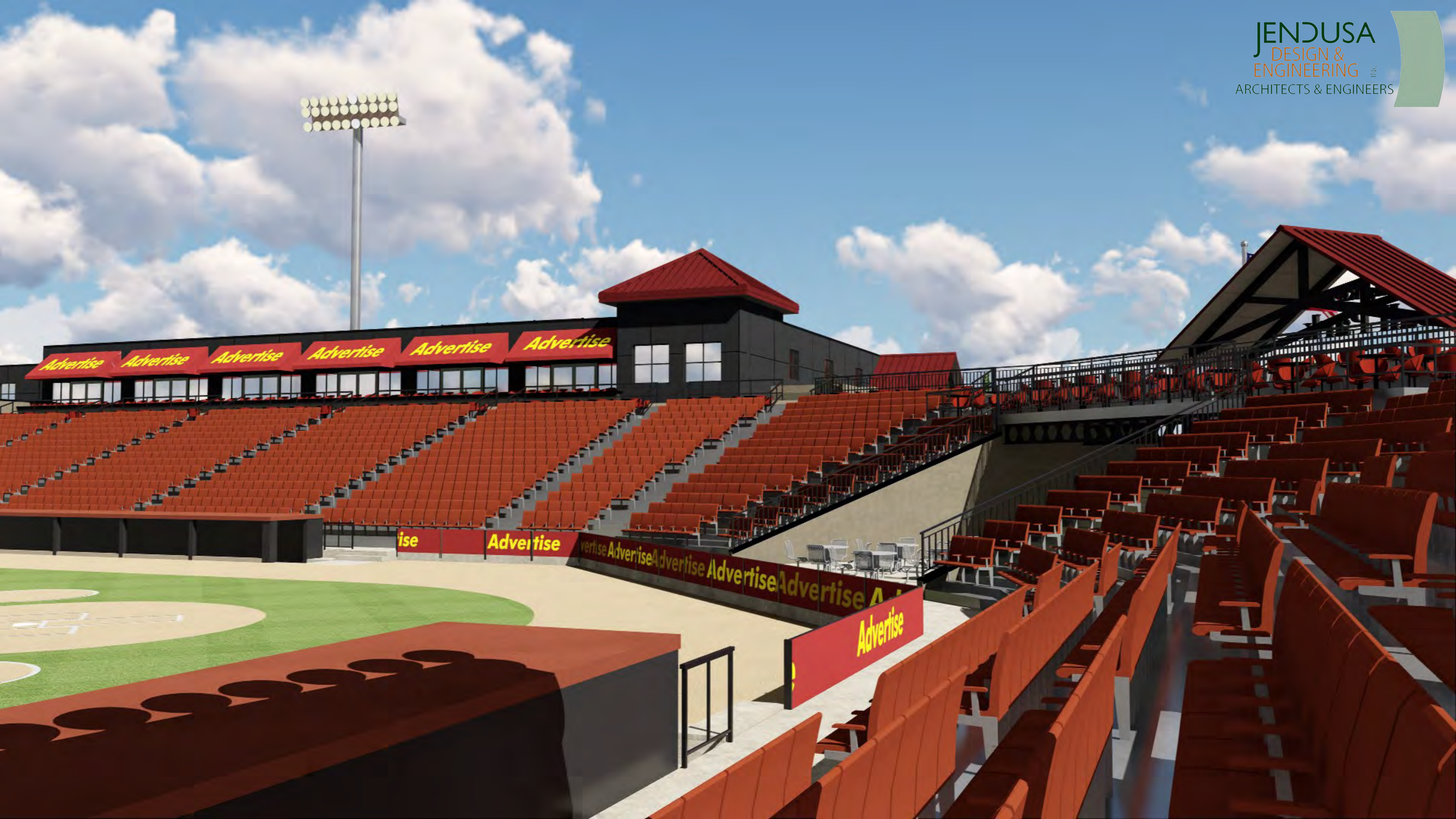

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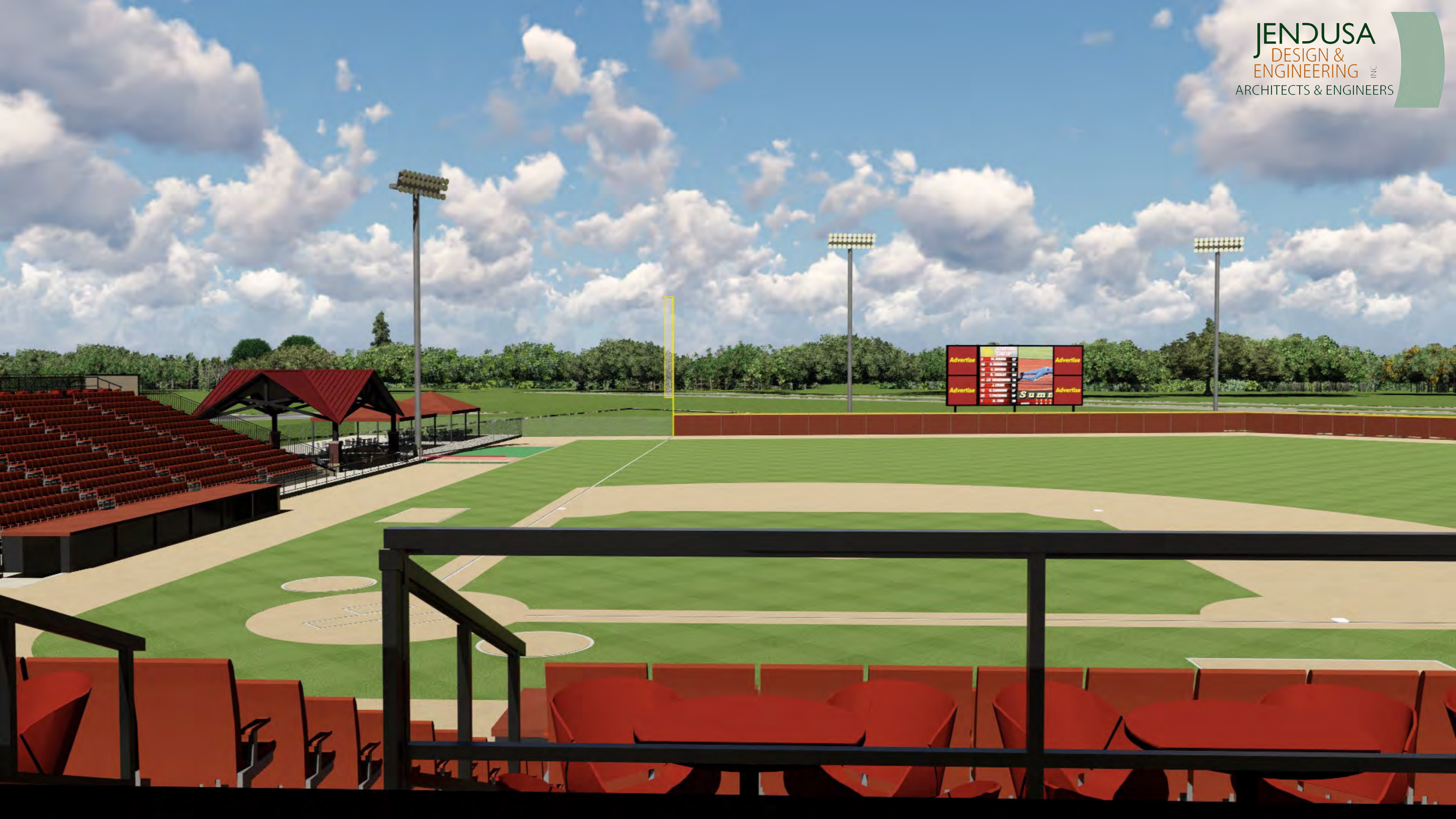

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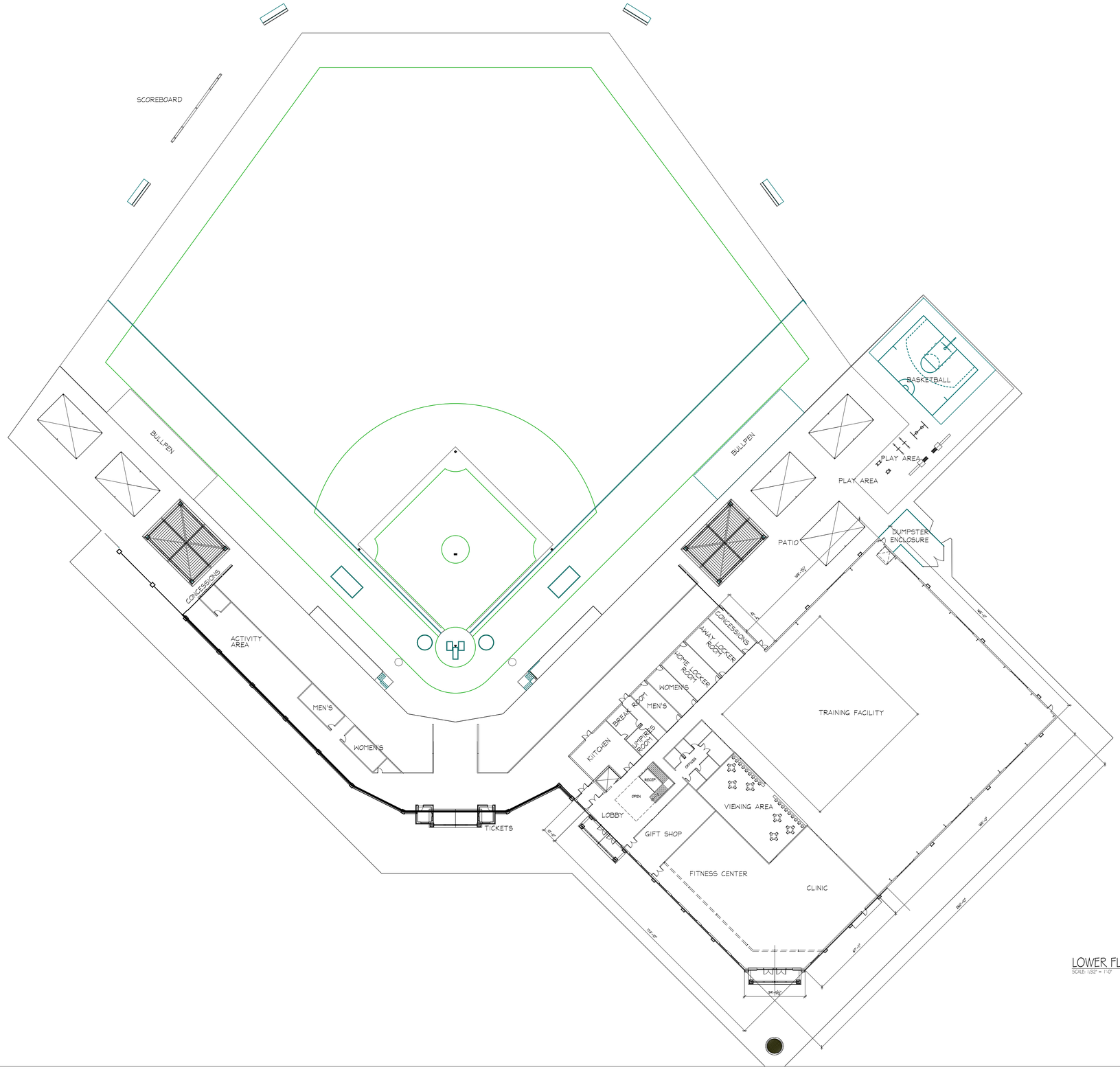

LOWER FLOOR PLAN
SCALE: 1/32" = 1'-0"

N

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ARCHITECTS & ENGINEERS
4615 Vettelson Rd Ste 200
Hartland, WI 53029
P262-264-6340
F866-326-1552
Wjendusaeng.com

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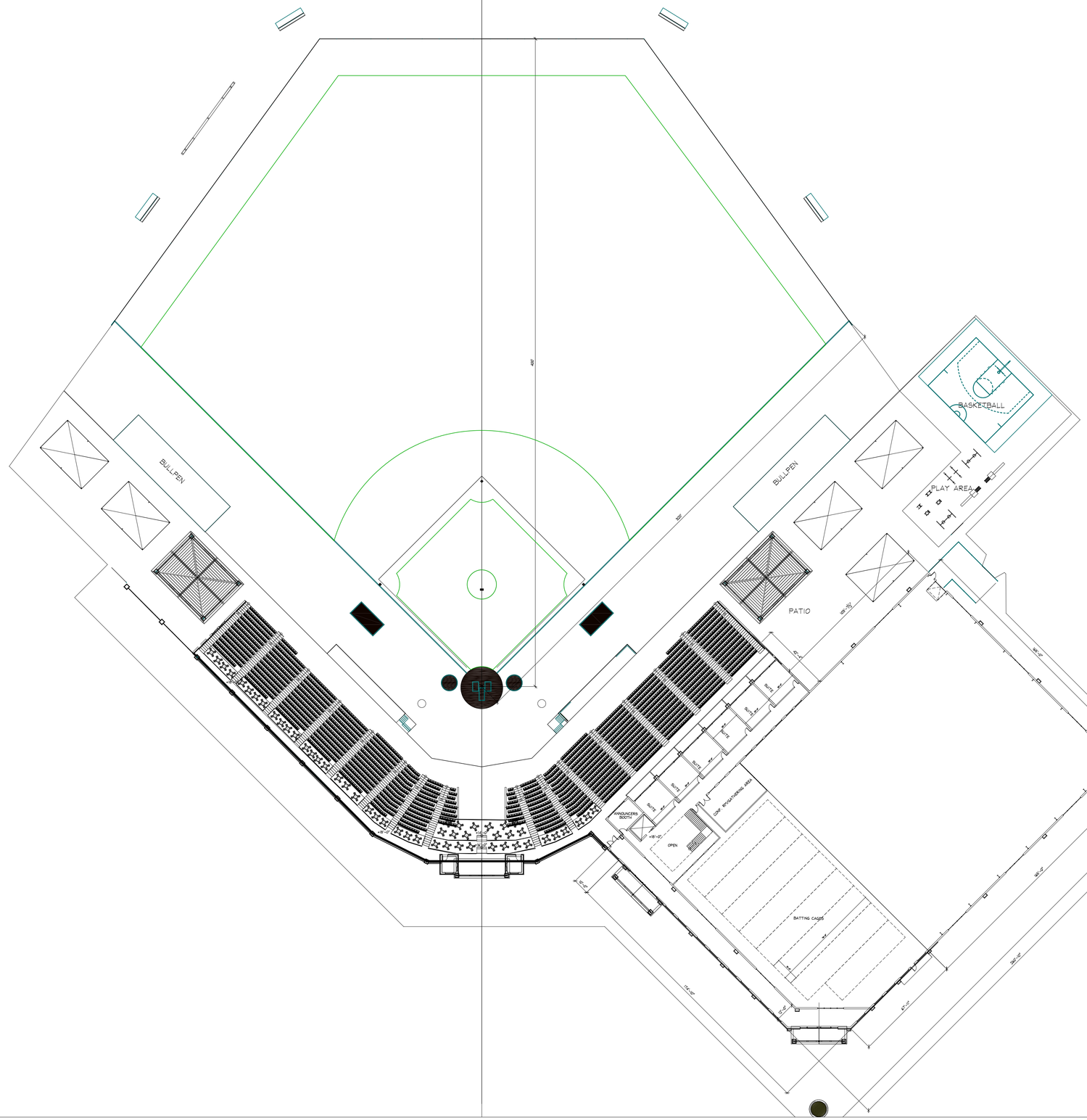
REVISIONS

LAKE COUNTRY BALL PARK

Blue Ribbon Circle N
Oconomowoc, WI

SHEET TITLE
LOWER FLOOR PLAN

PROJECT NO.	17-4985
DATE	12-26-19
SCALE	As Noted
CHECKED BY	
DRAWN BY	JFJ
SHEET	A1.0



UPPER FLOOR PLAN
SCALE: 1/32" = 1'-0"

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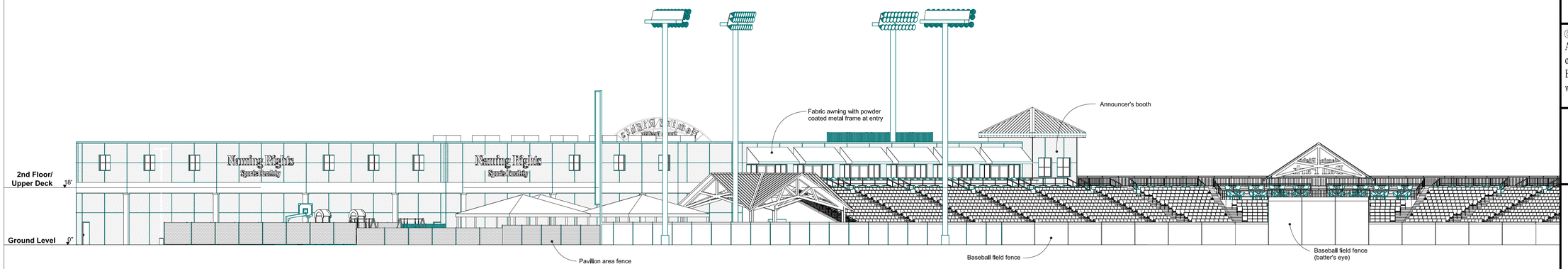
LAKE COUNTRY BALL PARK

Blue Ribbon Circle N
Oconomowoc, WI

SHEET TITLE
UPPER FLOOR PLAN

PROJECT NO.	17-4985
DATE	12-26-19
SCALE	AS NOTED
CHECKED BY	
DRAWN BY	JFJ
SHEET	A1.1



NORTH ELEVATION
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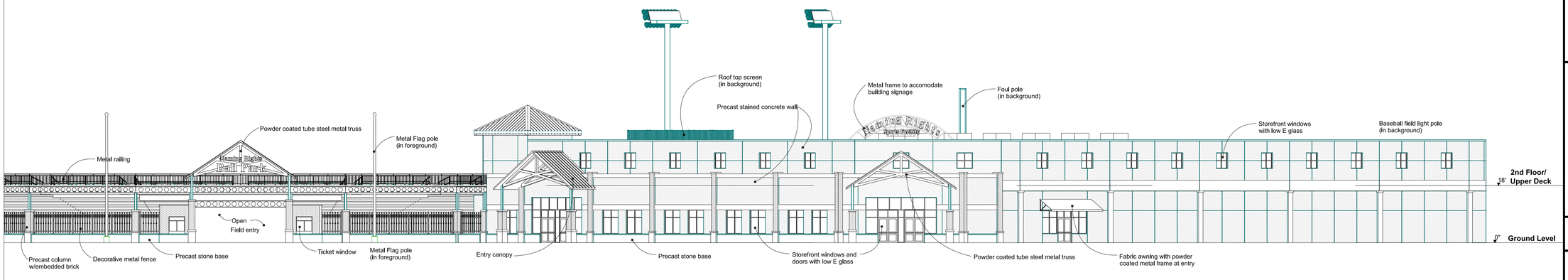

SOUTH ELEVATION
SCALE: 1/16" = 1'-0"

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LAKE COUNTRY BALL PARK

Blue Ribbon Circle N.
Oconomowoc,WI

SHEET TITLE
NORTH & SOUTH ELEVATIONS

PROJECT NO. 17-4985

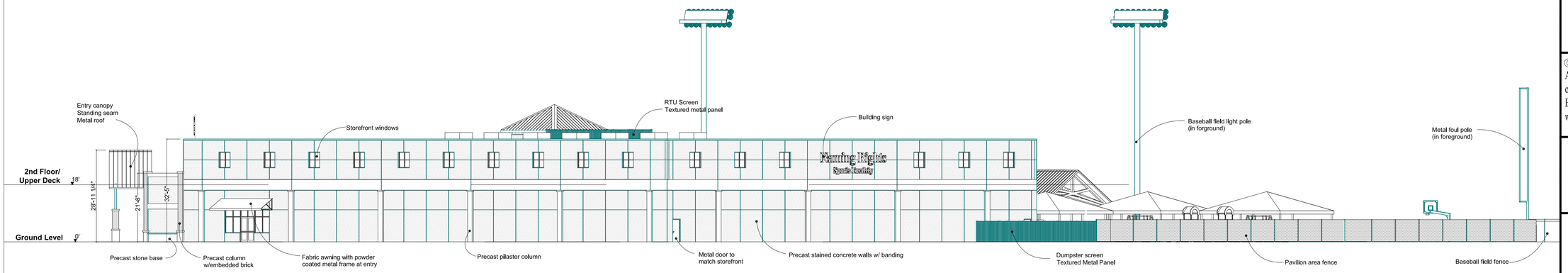
DATE 12-26-19

SCALE As Noted

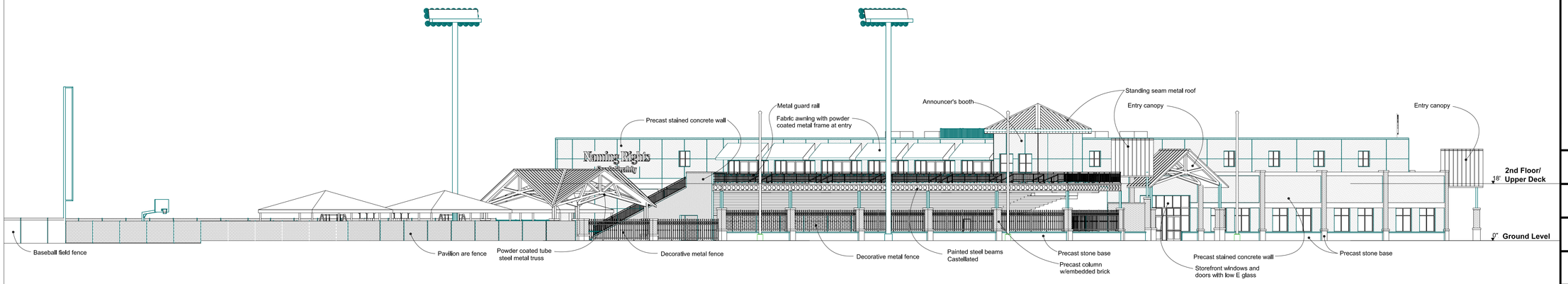
CHECKED BY

DRAWN BY JFJ

SHEET A2.0



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



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

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LAKE COUNTRY
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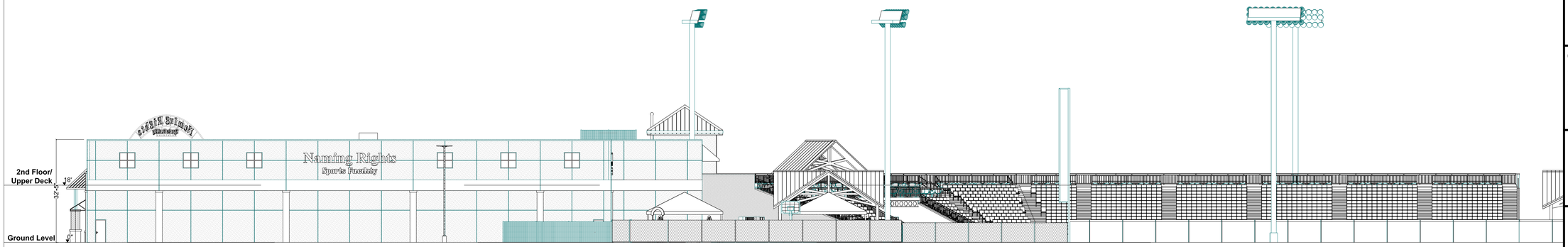
SHEET TITLE
EAST & WEST
ELEVATIONS

PROJECT NO.	17-4985
DATE	12-26-19
SCALE	As Noted
CHECKED BY	
DRAWN BY	JFJ
SHEET	A2.1



NORTHEAST ELEVATION
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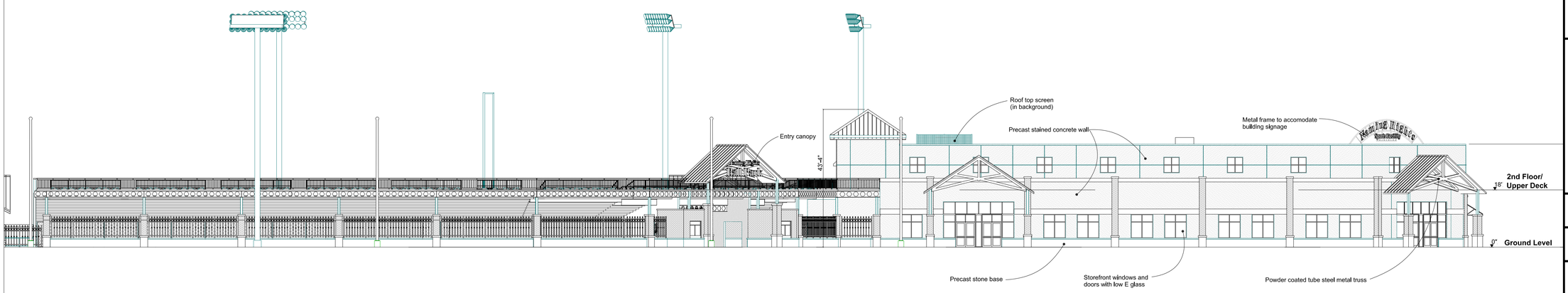

NORTHWEST ELEVATION
SCALE: 1/16" = 1'-0"

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LAKE COUNTRY
BALL PARK

Blue Ribbon Circle N.
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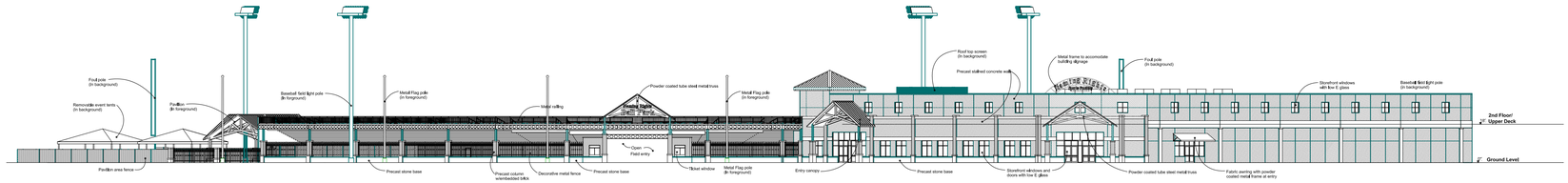
SHEET TITLE
NORTHEAST &
NORTHWEST
ELEVATIONS

PROJECT NO.	17-4985
DATE	12-26-19
SCALE	As Noted
CHECKED BY	
DRAWN BY	JFJ
SHEET	A2.2



SOUTH ELEVATION
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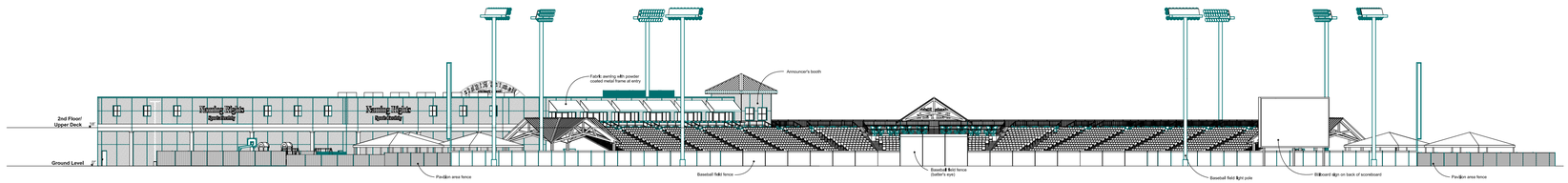

NORTH ELEVATION
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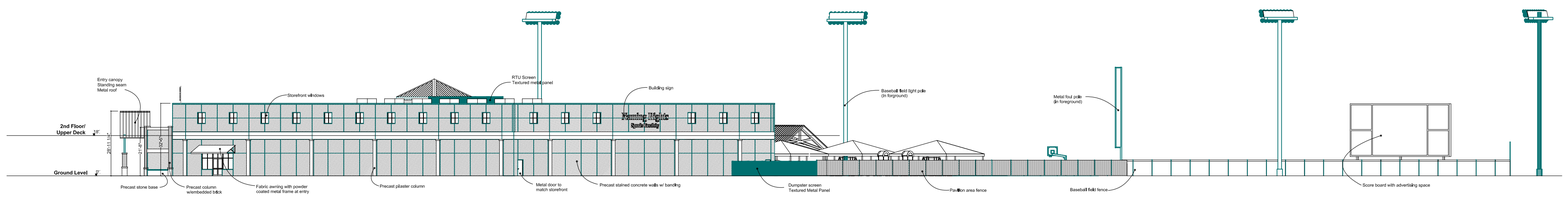

EAST ELEVATION
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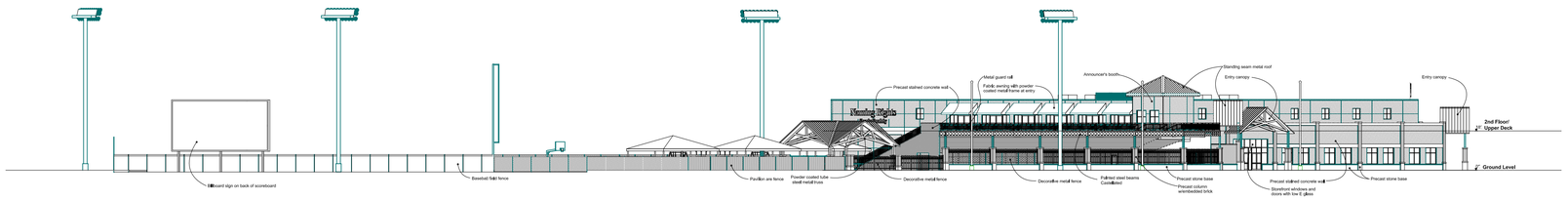

WEST ELEVATION
SCALE: 1/32" = 1'-0"

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LAKE COUNTRY
BALL PARK

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Oconomowoc,WI

SHEET TITLE
OVERALL
ELEVATIONS

PROJECT NO.	17-4985
DATE	12-26-19
SCALE	As Noted
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SHEET	A2.3

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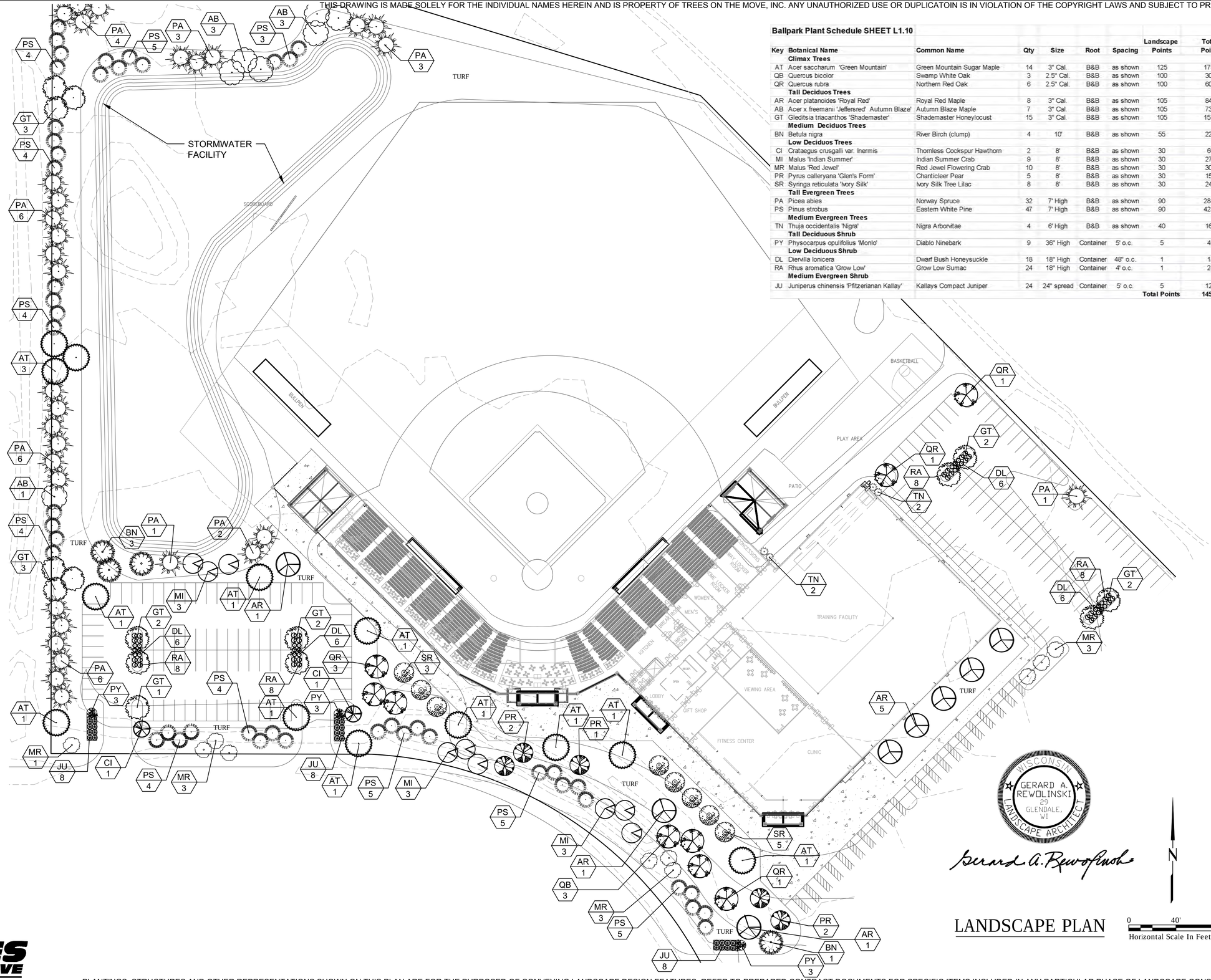
WISCONSIN'S LARGEST TREE TRANSPLANTERS



Ballpark Plant Schedule SHEET L1.10

Key	Botanical Name	Common Name	Qty	Size	Root	Spacing	Landscape Points	Total Points
	Climax Trees							
AT	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	14	3" Cal.	B&B	as shown	125	1750
QB	Quercus bicolor	Swamp White Oak	3	2.5" Cal.	B&B	as shown	100	300
QR	Quercus rubra	Northern Red Oak	6	2.5" Cal.	B&B	as shown	100	600
	Tall Deciduos Trees							
AR	Acer platanoides 'Royal Red'	Royal Red Maple	8	3" Cal.	B&B	as shown	105	840
AB	Acer x freemanii 'Jeffersred' Autumn Blaze'	Autumn Blaze Maple	7	3" Cal.	B&B	as shown	105	735
GT	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	15	3" Cal.	B&B	as shown	105	1575
	Medium Deciduos Trees							
BN	Betula nigra	River Birch (clump)	4	10'	B&B	as shown	55	220
	Low Deciduos Trees							
CI	Crataegus crusgalli var. Inermis	Thornless Cockspur Hawthorn	2	8'	B&B	as shown	30	60
MI	Malus 'Indian Summer'	Indian Summer Crab	9	8'	B&B	as shown	30	270
MR	Malus 'Red Jewel'	Red Jewel Flowering Crab	10	8'	B&B	as shown	30	300
PR	Pyrus calleryana 'Glen's Form'	Chanticleer Pear	5	8'	B&B	as shown	30	150
SR	Syringa reticulata 'Ivory Silk'	Ivory Silk Tree Lilac	8	8'	B&B	as shown	30	240
	Tall Evergreen Trees							
PA	Picea abies	Norway Spruce	32	7' High	B&B	as shown	90	2880
PS	Pinus strobus	Eastern White Pine	47	7' High	B&B	as shown	90	4230
	Medium Evergreen Trees							
TN	Thuja occidentalis 'Nigra'	Nigra Arborvitae	4	6' High	B&B	as shown	40	160
	Tall Deciduous Shrub							
PY	Physocarpus opulifolius 'Monlo'	Diablo Ninebark	9	36" High	Container	5' o.c.	5	45
	Low Deciduous Shrub							
DL	Diervilla lonicera	Dwarf Bush Honeysuckle	18	18" High	Container	48" o.c.	1	18
RA	Rhus aromatica 'Grow Low'	Grow Low Sumac	24	18" High	Container	4' o.c.	1	24
	Medium Evergreen Shrub							
JU	Juniperus chinensis 'Pfitzerianan Kallay'	Kallays Compact Juniper	24	24" spread	Container	5' o.c.	5	120
							Total Points	**14517**

WISCONSIN GERARD A. REWOLINSKI 29 GLENDALE, WI LANDSCAPE ARCHITECT

Gerard A. Rewolinski

LANDSCAPE PLAN

0 40' 80'
Horizontal Scale In Feet

WLCA Wisconsin Landscape Contractors Association

Premier Landscapes

LANDSCAPE DEVELOPMENT FOR
BLUE RIBBON BASEBALL
BLUE RIBBON CIRCLE NORTH
OCONOMOWOC, WISCONSIN

LANDSCAPE ARCHITECTURE	
DESIGN BY:	GAR
DRAWN BY:	GAR
DATE:	12/26/2019
REVISED:	
SCALE:	1"=40'-0"
SHEET:	L1.10

TREES ON THE MOVE
5611 S. Calhoun Road
New Berlin, WI 53151
Phone: (262) 679-5200
treesonthemove.com

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Plot Date: 12/26/2019 - 12:10 PM
Drawing name: S:\Gerard\2019\Lake Country Ballpark\CAD\Ballpark-L100.dwg

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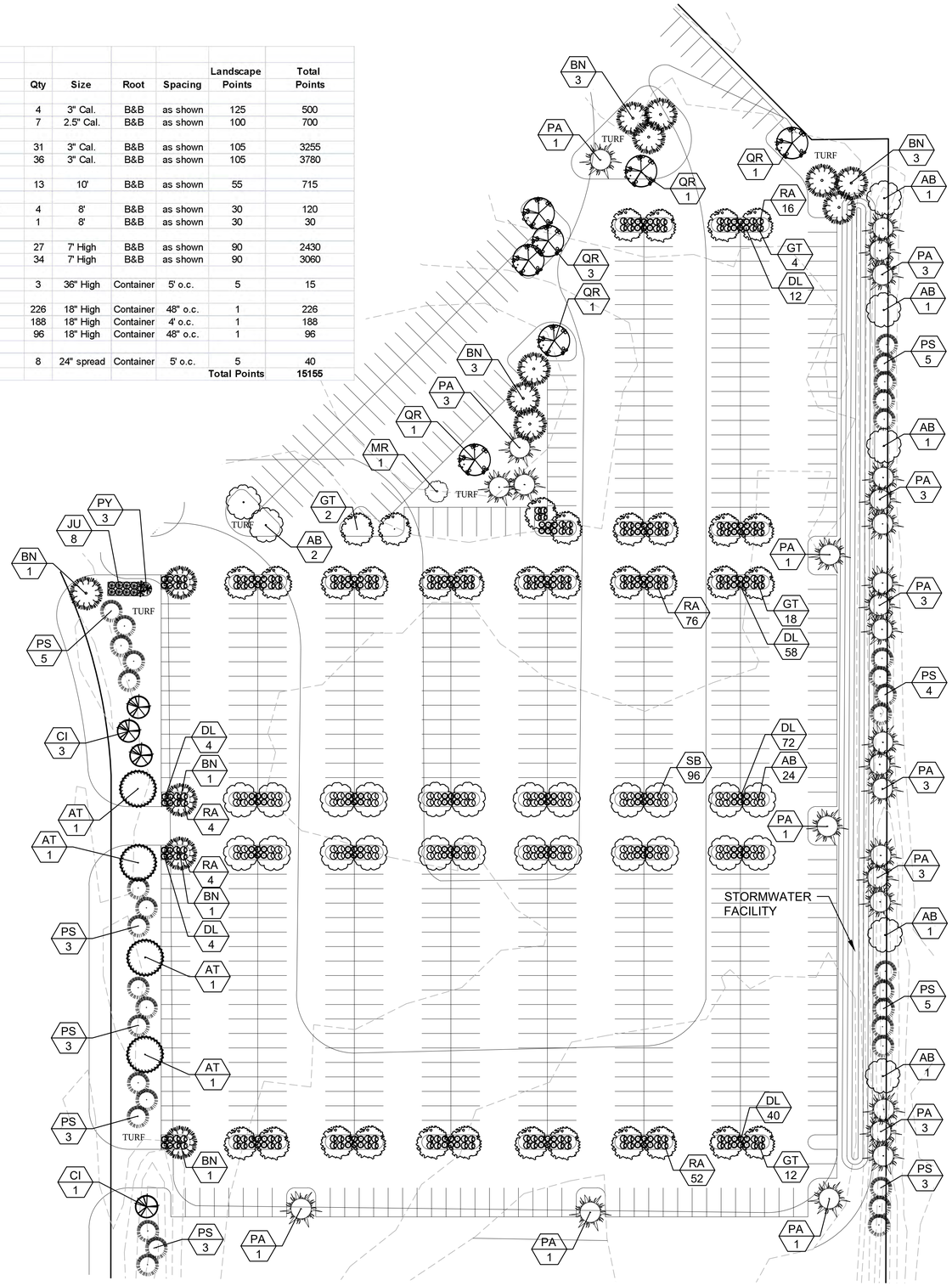
WISCONSIN'S LARGEST TREE TRANSPLANTERS

Ballpark Plant Schedule SHEET L1.20

Key	Botanical Name	Common Name	Qty	Size	Root	Spacing	Landscape Points	Total Points
	Climax Trees							
AT	Acer saccharum 'Green Mountain'	Green Mountain Sugar Maple	4	3" Cal.	B&B	as shown	125	500
QR	Quercus rubra	Northern Red Oak	7	2.5" Cal.	B&B	as shown	100	700
	Tall Deciduos Trees							
AB	Acer x freemanii 'Jeffersred' Autumn Blaze'	Autumn Blaze Maple	31	3" Cal.	B&B	as shown	105	3255
GT	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	36	3" Cal.	B&B	as shown	105	3780
	Medium Deciduos Trees							
BN	Betula nigra	River Birch (clump)	13	10'	B&B	as shown	55	715
	Low Deciduos Trees							
CI	Crataegus crusgalli var. Inermis	Thornless Cockspur Hawthorn	4	8'	B&B	as shown	30	120
MR	Malus 'Red Jewel'	Red Jewel Flowering Crab	1	8'	B&B	as shown	30	30
	Tall Evergreen Trees							
PA	Picea abies	Norway Spruce	27	7' High	B&B	as shown	90	2430
PS	Pinus strobus	Eastern White Pine	34	7' High	B&B	as shown	90	3060
	Tall Deciduous Shrub							
PY	Physocarpus opulifolius 'Monlo'	Diablo Ninebark	3	36" High	Container	5' o.c.	5	15
	Low Deciduous Shrub							
DL	Diervilla lonicera	Dwarf Bush Honeysuckle	226	18" High	Container	48" o.c.	1	226
RA	Rhus aromatica 'Grow Low'	Grow Low Sumac	188	18" High	Container	4' o.c.	1	188
SB	Spiraea x bumalda ' Anthony Waterer'	Anthony Waterer Spirea	96	18" High	Container	48" o.c.	1	96
	Medium Evergreen Shrub							
JU	Juniperus chinensis 'Pfitzerianan Kallay'	Kallays Compact Juniper	8	24" spread	Container	5' o.c.	5	40
							Total Points	**15155**



LANDSCAPE PLAN

0 40' 80'
Horizontal Scale In Feet

WISCONSIN GERARD A. REWOLINSKI 29 GLENDALE, WI LANDSCAPE ARCHITECT

Gerard A. Rewolinski

N

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Plot Date: 12/26/2019 - 12:06 PM
Drawing name: G:\Gerard\2019\Lake Country Ballpark\CAD\Ballpark-L100.dwg

WLCA

Premier Landscapes

LANDSCAPE DEVELOPMENT FOR
BLUE RIBBON BASEBALL
BLUE RIBBON CIRCLE NORTH
OCONOMOWOC, WISCONSIN

LANDSCAPE ARCHITECTURE	
DESIGN BY:	GAR
DRAWN BY:	GAR
DATE:	12/26/2019
REVISED:	
SCALE:	1"=40'-0"
SHEET:	L1.20

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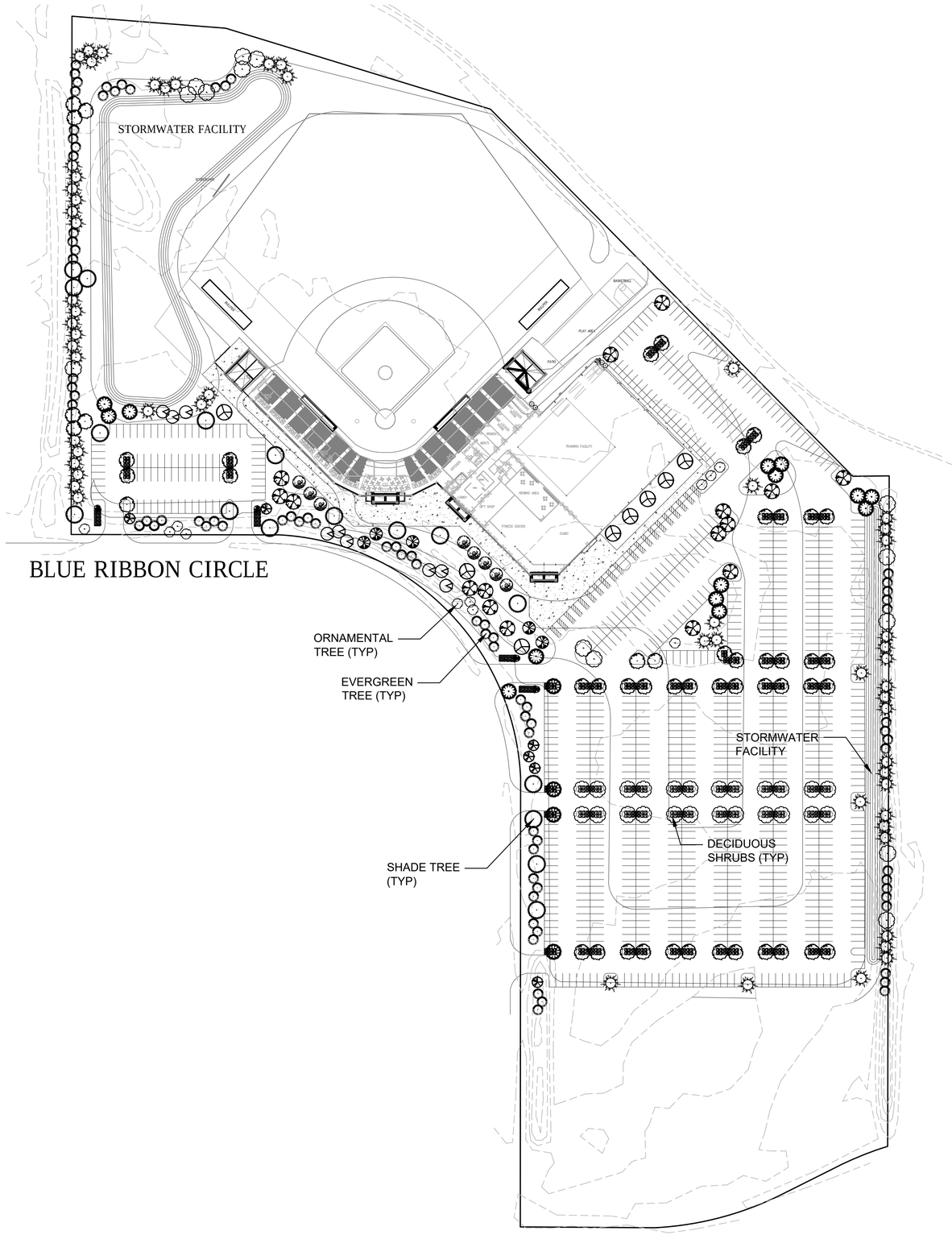
WISCONSIN'S LARGEST
TREE TRANSPLANTERS



WISCONSIN
GERARD A. REWOLINSKI
29
GLENDALE, WI
LANDSCAPE ARCHITECT

Gerard A. Rewolinski

N

OVERALL LANDSCAPE PLAN

0 80' 160'
Horizontal Scale In Feet

TREES ON THE MOVE
5611 S. Calhoun Road
New Berlin, WI 53151
Phone: (262) 679-5200
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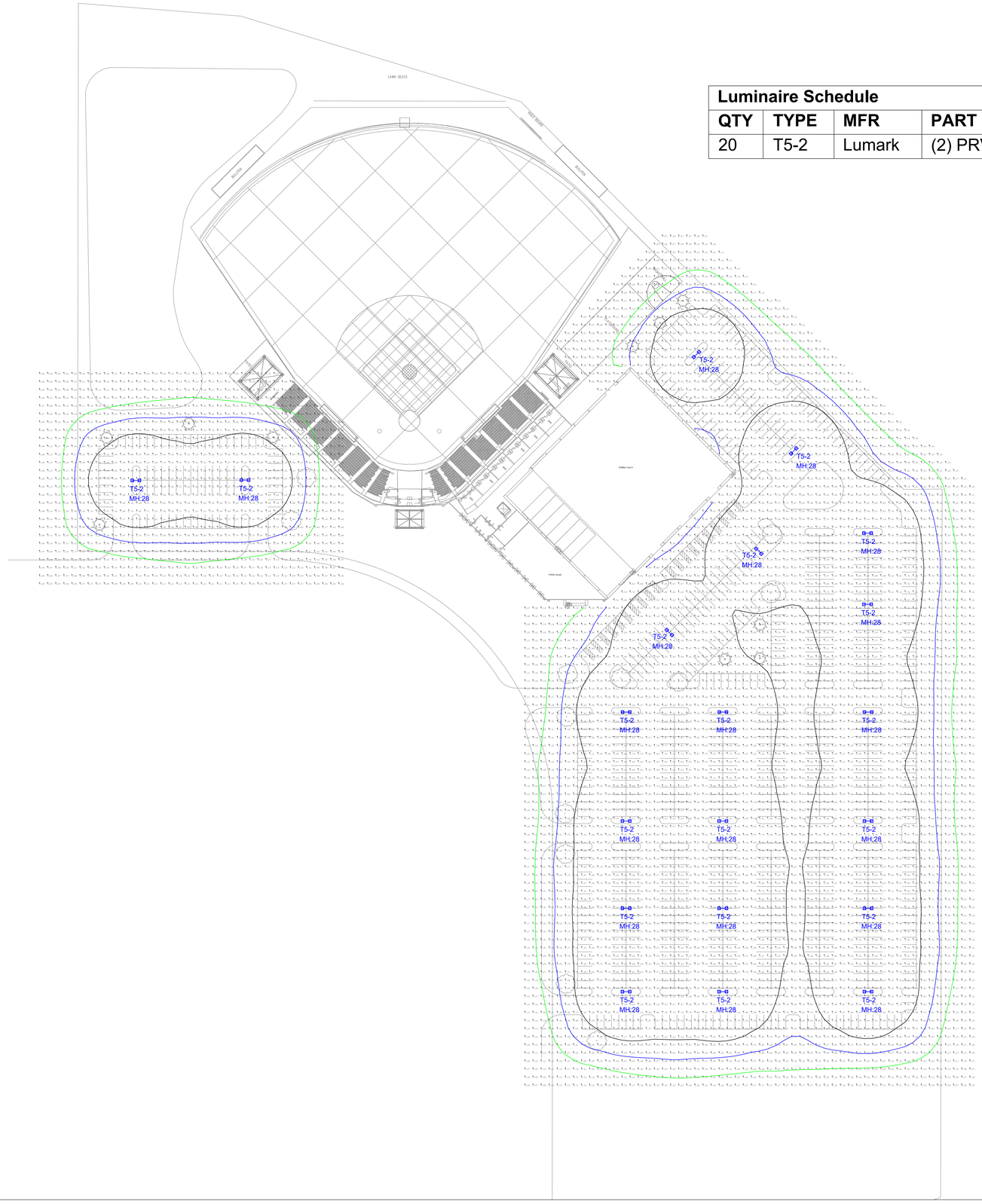
PLANTINGS, STRUCTURES AND OTHER REPRESENTATIONS SHOWN ON THIS PLAN ARE FOR THE PURPOSED OF CONVEYING LANDSCAPE DESIGN FEATURES. REFER TO PREPARED CONTRACT DOCUMENTS FOR SPECIFIC ITEMS INCLUDED IN ANY PARTICULAR PHASE OF LANDSCAPE CONSTRUCTION.

Premier Landscapes

LANDSCAPE DEVELOPMENT FOR
BLUE RIBBON BASEBALL
BLUE RIBBON CIRCLE NORTH
OCONOMOWOC, WISCONSIN

LANDSCAPE ARCHITECTURE	
DESIGN BY:	GAR
DRAWN BY:	GAR
DATE:	12/26/2019
REVISED:	
SCALE:	1"=80'-0"
SHEET:	L100

Plot Date: 12/26/2019 - 12:13 PM
Drawing name: G:\Gerard\2019\Lake Country Ballpark\CAD\Ballpark-L100.dwg



Luminaire Schedule				
QTY	**TYPE**	**MFR**	**PART NUMBER**	**LLF**
20	T5-2	Lumark	(2) PRV-C40-D-UNV-T5-SA-xx + 25' POLE + 3' BASE	0.900

ENTERPRISE Lighting & Control

#	DATE	COMMENTS

REVISIONS

DRAWN BY: JS

DATE: 11 / 21 / 2019

SCALE: 1" = 50'-0"

BLUE RIBBON BASEBALL

OCONOMOWOC, WI

PARKING LOT LIGHTING PLAN

Lumark

DESCRIPTION

The Prevail LED area, site luminaire combines optical performance, energy efficiency and long term reliability in an advanced, patent pending modern design. Utilizing the latest LED technology, the Prevail luminaire delivers unparalleled uniformity resulting in greater pole spacing. A versatile mount standard arm facilitates ease of installation for both retrofit and new installations. With energy savings greater than 85%, the Prevail fixture replaces 150-1,000W metal halide fixtures in general area lighting applications such as parking lots, walkways, roadways and building areas.

PRV-C40-D-UNV-T5-SA-BZ
BALLFIELD IN SUMMIT
TYPE T5-2

SPECIFICATION FEATURES

Construction
Construction is comprised of a heavy-duty, single-piece die-cast aluminum housing. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. The die-cast aluminum door is tethered to provide easy access to the driver if replacement is required. A one-piece silicone gasket seals the door to the fixture housing. The optics is mounted on a versatile, aluminum plate that dissipates heat from the LEDs resulting in longer life of the fixture. The fixture is IP66 and vibration rated (ANSI C136.31) to insure strength of construction and longevity in the selected application.

Optics
Precision molded, high efficiency optics are precisely designed to shape the distribution, maximizing efficiency and application spacing. Available in Type II, III, IV and V distributions with lumen packages ranging from 6,100 to 18,900 nominal lumens. Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life. For the ultimate level of spill light control, an optional house side shield accessory can be field or factory installed.

Electrical
LED drivers are mounted to the fixture for optimal heat sinking and ease of maintenance. Class 1 electronic drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Available in 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. 10kV/10 kA surge protection standard. 0-10V dimming driver is standard with leads external to the fixture. Suitable for ambient temperatures from -40°C to 40°C. Optional 50°C HA (high ambient) available. Standard NEMA 3-PIN twistlock photocontrol receptacle and NEMA 7-PIN twistlock photocontrol receptacles are available as options.

Controls
See Control Options section for more details on available offerings.

Mounting
Standard pole mount arm is bolted directly to the pole and the fixture slides onto the arm and locks in place with a bolt facilitating quick and easy installation. The versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the standard mounting arm enables wiring of the fixture without having to access the driver compartment. A knock-out on the standard mounting arm enables round pole mounting. Wall mount and mast arm mounting options are available. Mast arm adapter fits 2-3/8" O.D. tenon.

Finish
Housing and cast parts finished in five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard color is bronze. Additional colors available in white, grey, black, dark platinum and graphite metallic.

Warranty
Five-year warranty.

PRV / PRV-XL
PREVAIL

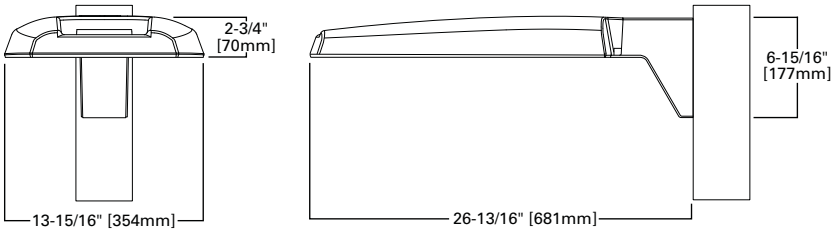
LED

AREA / SITE / ROADWAY LUMINAIRE

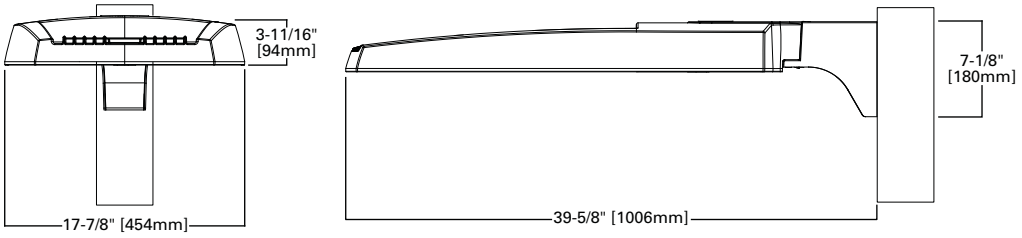
LumenSafe Technology
CLICK HERE

DIMENSIONS

Prevail



Prevail XL



CERTIFICATION DATA

UL and cUL Wet Location Listed
IP66-Rated
3G Vibration Rated (PRV)
1.5G Vibration Rated (PRV-XL)
ISO 9001
FCC Class A

ENERGY DATA

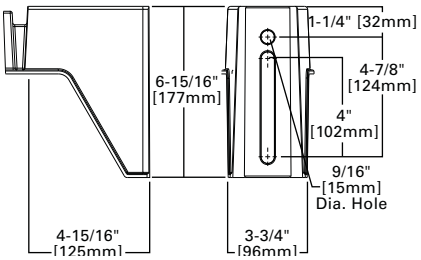
Electronic LED Driver
0.9 Power Factor
<20% Total Harmonic Distortion
120-277V/50 and 60Hz,
347V/60Hz, 480V/60Hz
-40°C Minimum Temperature Rating
+40°C Ambient Temperature Rating

SHIPPING DATA

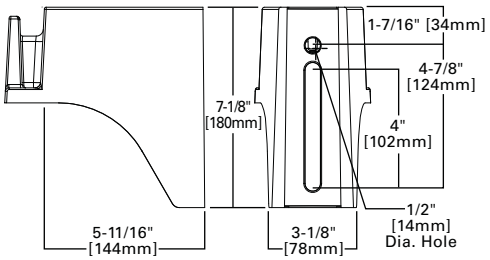
Approximate Net Weight:
PRV: 20 lbs. (9.09 kgs.)
PRV-XL: 45 lbs. (20.41 kgs.)

EATON
Powering Business Worldwide

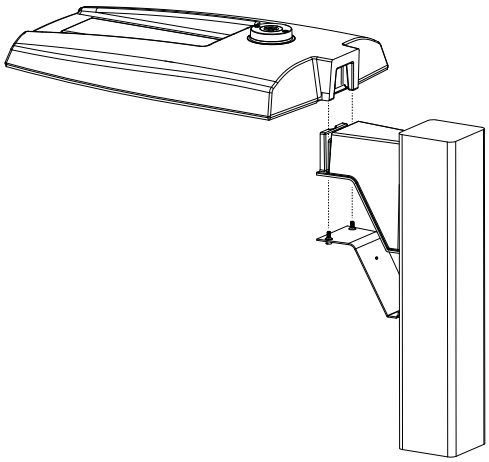
POLE MOUNT ARM (PRV)



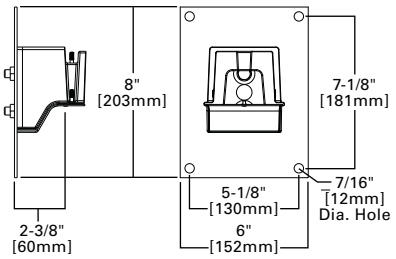
POLE MOUNT ARM (PRV-XL)



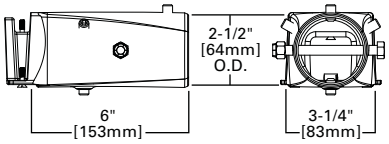
VERSATILE MOUNT SYSTEM



WALL MOUNT (PRV)



MAST ARM MOUNT (PRV)



MOUNTING CONFIGURATIONS AND EPAS

Wall Mount

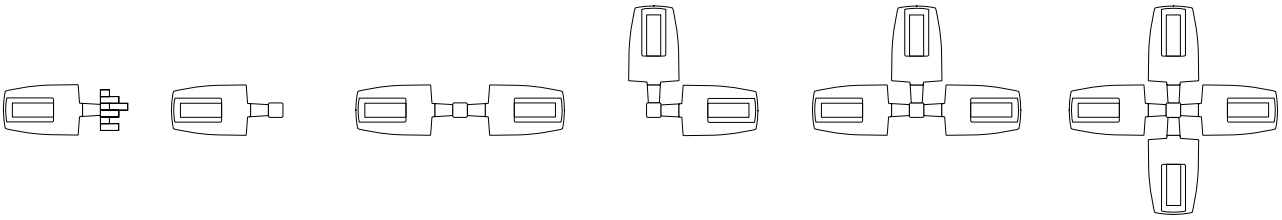
Arm Mount Single
EPA 0.75 (PRV)
EPA 1.12 (PRV-XL)

Arm Mount 2 @ 180°
EPA 1.50 (PRV)
EPA 2.25 (PRV-XL)

Arm Mount 2 @ 90°
EPA 1.50 (PRV)
EPA 2.13 (PRV-XL)

Arm Mount 3 @ 90°
EPA 2.25 (PRV)
EPA 2.52 (PRV-XL)

Arm Mount 4 @ 90°
EPA 3.00 (PRV)
EPA 2.52 (PRV-XL)



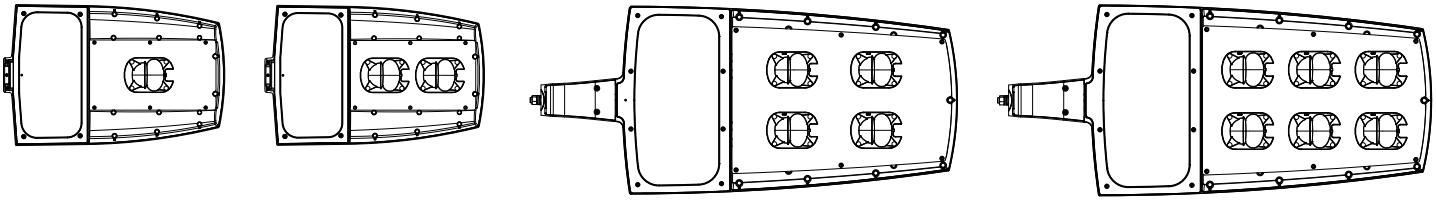
OPTICAL CONFIGURATIONS

PRV-C15
(7,100 Nominal Lumens)

PRV-C25/C40/C60
(13,100/17,100/20,000 Nominal Lumens)

PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)

PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



POWER AND LUMENS (PRV)

Light Engine		**C15**	**C25**	**C40**	**C60**
Power (Watts)		52	96	131	153
Input Current @ 120V (A)		0.43	0.80	1.09	1.32
Input Current @ 277V (A)		0.19	0.35	0.48	0.57
Input Current @ 347V (A)		0.17	0.30	0.41	0.48
Input Current @ 487V (A)		0.12	0.22	0.30	0.35
Distribution					
Type II	4000K Lumens	7,123	13,205	17,172	20,083
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K Lumens	6,994	12,965	16,860	19,718
Type III	4000K Lumens	7,111	13,183	17,144	20,050
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,982	12,944	16,832	19,686
Type IV	4000K Lumens	7,088	13,140	17,087	19,984
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5
	3000K Lumens	6,959	12,901	16,777	19,621
Type V	4000K Lumens	7,576	14,045	18,264	21,360
	BUG Rating	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4
	3000K Lumens	7,438	13,790	17,932	20,972

POWER AND LUMENS (PRV-XL)

Light Engine		**C75**	**C100**	**C125**	**C150**	**C175**
Power (Watts)		176	217	264	285	346
Input Current @ 120V (A)		1.50	1.84	2.21	2.38	2.92
Input Current @ 277V (A)		0.66	0.82	0.97	1.04	1.25
Input Current @ 347V (A)		0.54	0.66	0.79	0.84	1.02
Input Current @ 487V (A)		0.40	0.48	0.57	0.62	0.74
Distribution						
Type II	4000K Lumens	26,263	31,231	36,503	41,349	48,876
	BUG Rating	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	3000K Lumens	25,786	30,664	35,840	40,598	47,989
Type III	4000K Lumens	26,120	31,061	36,304	41,124	48,610
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	3000K Lumens	25,646	30,497	35,645	40,377	47,727
Type IV	4000K Lumens	26,098	31,035	36,274	41,089	48,569
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	3000K Lumens	25,624	30,471	35,615	40,343	47,687
Type V	4000K Lumens	28,129	33,450	39,097	44,287	52,349
	BUG Rating	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	3000K Lumens	27,618	32,843	38,387	43,483	51,398

LUMEN MAINTENANCE

Configuration	**TM-21 Lumen Maintenance (50,000 Hours)**	**Theoretical L70 (Hours)**
Up to PRV-C60 at 25°C	91.30%	194,000
Up to PRV-C60 at 40°C	87.59%	134,000
Up to PRV-XL-C175 at 25°C	91.40%	204,000
Up to PRV-XL-C175 at 40°C	89.41%	158,000

LUMEN MULTIPLIER

Ambient Temperature	**Lumen Multiplier**
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

CONTROL OPTIONS

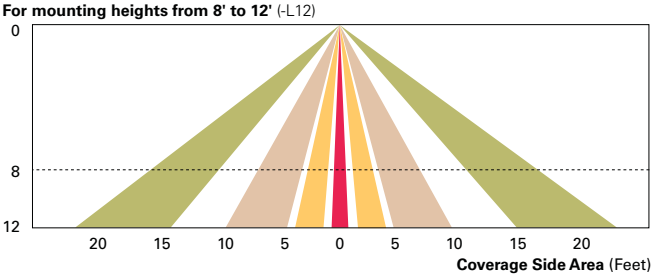
0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

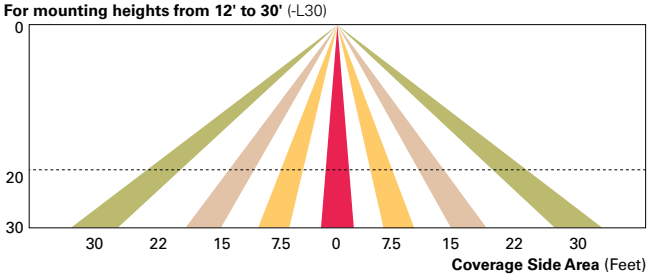
Dimming Occupancy Sensor (MSP and MS) These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity.

These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". Note: For MSP sensors, the factory preset is ON (Enabled), and for MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

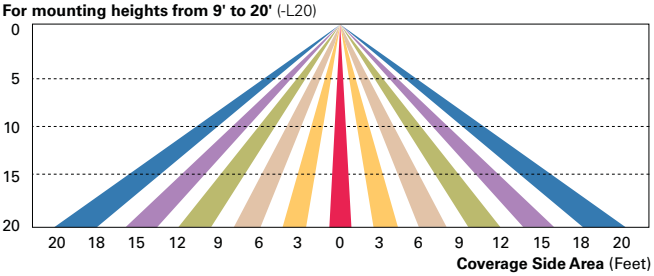
For mounting heights from 8' to 12' (-L12)



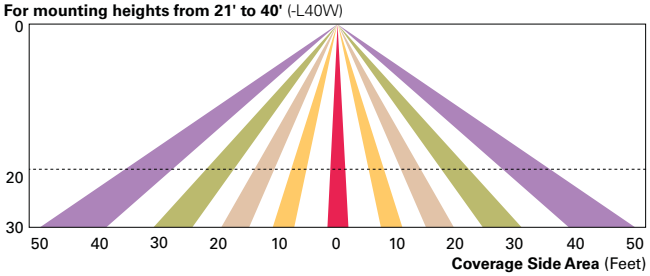
For mounting heights from 12' to 30' (-L30)



For mounting heights from 9' to 20' (-L20)



For mounting heights from 21' to 40' (-L40W)

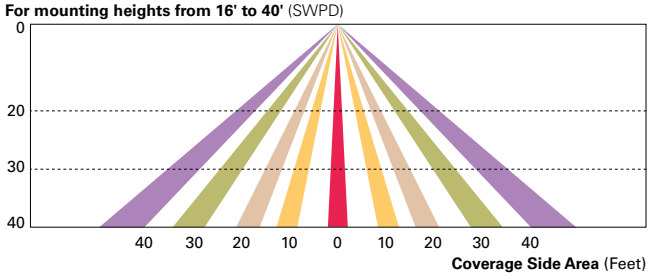


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

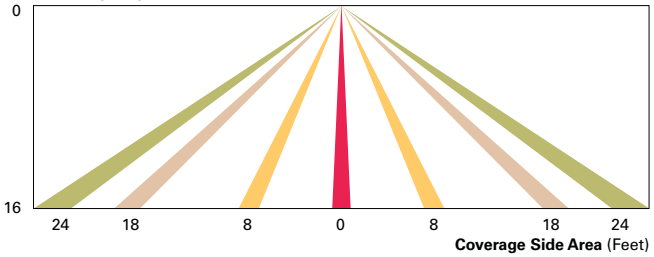
WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

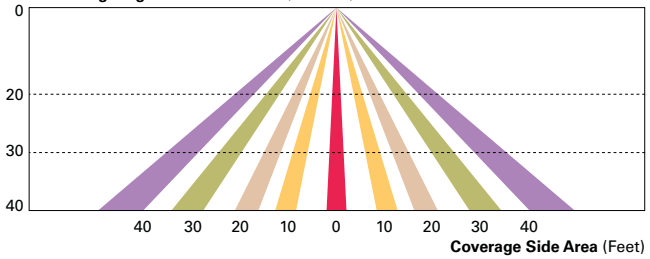


LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



LumenSafe Integrated Network Security Camera (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

ORDERING INFORMATION

Sample Number: PRV-XL-C75-D-UNV-T4-SA-BZ

Product Family [1]	Light Engine [2]	Driver	Voltage	Distribution	Mounting	Color
PRV=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **347**=347V **480**=480V [3]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=Standard Versatile Arm **MA**=Mast Arm [4] **WM**=Wall Mount Arm [4]	**AP**=Grey **BZ**=Bronze (Standard) **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)

7030=70 CRI / 3000K CCT [5]
7050=70 CRI / 5000K CCT [5]
HSS=House Side Shield [6]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
10K=10kV/10kA UL 1449 Fused Surge Protective Device
HA=50°C High Ambient Temperature [7]
PER=NEMA 3-PIN Twistlock Photocontrol Receptacle
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
MSP/DIM-L12= Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height [4, 8]
MSP/DIM-L30= Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height [4, 8]
MSP-L12= Integrated Sensor ON/OFF Operation, 8' - 12' Mounting Height [4, 8]
MSP-L30=Integrated Sensor ON/OFF Dimming Operation, 12' - 30' Mounting Height [4, 8]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [8, 9]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [8, 9]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [8, 9]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [8, 9]
ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle [8, 10, 11]
ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [8, 10, 11]
ZW-SWPD4BZ= Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze [8, 10, 11]
ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [8, 10, 11]
ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze [8, 10, 11]
LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [8, 12]
LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [8, 12]
(See Table Below)= LumenSafe Integrated Network Security Camera [13, 14]

Accessories (Order Separately) [15]

PRVWM-XX=Wall Mount Kit [4]
PRVMA-XX=Mast Arm Mounting Kit [4]
PRVSA-XX=Standard Arm Mounting Kit [4]
PRVXLSA-XX=Standard Arm Mounting Kit (for Prevail XL) [13]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
HS/VERD=House Side Shield [6]
VGS-F/B=Vertical Glare Shield, Front/Back [6]
VGS-SIDE=Vertical Glare Shield, Side [6]
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=NEMA Photocontrol - 120V
OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1027=NEMA Photocontrol - 480V
ISHH-01=Integrated Sensor Programming Remote [16]
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [17]
SWPD4-WH=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, White [11, 18]
SWPD4-BZ=WaveLinx Wireless Sensor, 7' - 15' Mounting Height, Bronze [11, 18]
SWPD5-WH=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, White [11, 18]
SWPD5-BZ=WaveLinx Wireless Sensor, 15' - 40' Mounting Height, Bronze [11, 18]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) [19]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
2. Standard 4000K CCT and 70CRI.
3. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
4. Only available in PRV configurations C15, C25, C40 or C60.
5. Use dedicated IES files on product website for non-standard CCTs.
6. Option will come factory-installed. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6). House Side Shield not suitable with T5 distribution or C60 lumen package.
7. Not available with C60 lumen package.
8. Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW or LWR).
9. Utilizes the Wattstopper sensor FSP-211.
10. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
11. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
12. LumaWatt Pro wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for LumaWatt Pro application information.
13. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
14. Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatability information.
15. Replace XX with paint color.
16. This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
17. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
18. Requires Wavelinx-enabled 4-PIN twistlock receptacle (ZW) option.
19. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW or LWR).

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul	
L=LumenSafe Technology LumenSafe Technology CLICK HERE	**D**=Dome Camera	**C**=Cellular, Customer Installed SIM Card **A**=Cellular, Factory Installed AT&T SIM Card **V**=Cellular, Factory Installed Verizon SIM Card **S**=Cellular, Factory Installed Sprint SIM Card	**E**=Ethernet Networking

STOCK ORDERING INFORMATION

Product Family	Light Engine	Voltage	Distribution	**Options** (Add as Suffix)
PRVS=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V [2]	**T3**=Type III **T4**=Type IV	**MSP/DIM-L30**=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height [2]
PRVS-XL=Prevail	**C75**=(4 LEDs) 26,100 Nominal Lumens **C100**=(4 LEDs) 31,000 Nominal Lumens **C125**=(4 LEDs) 36,000 Nominal Lumens **C150**=(6 LEDs) 41,100 Nominal Lumens **C175**=(6 LEDs) 48,600 Nominal Lumens			

NOTES: 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. **2.** Only available in PRVS configurations C15, C25, C40 or C60.

Steel Poles

SSS SQUARE STRAIGHT STEEL

SSS5A25SFM2
BALLFIELD IN SUMMIT
TYPE T5-2-POLE

FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
- 10'-39' mounting heights
- Drilled or tenon (specify)

DESIGN CONSIDERATIONS

Wind induced vibrations resulting from steady, unidirectional winds and other aerodynamic forces, as well as vibration and coefficient of height factors for non-grounded mounted installations (e.g., installations on bridges or buildings) are not included in this document. The information contained herein is for general guidance only and is not a replacement for professional judgement. Consult with a professional, and local and federal standards, before ordering to ensure product is appropriate for the intended purpose and installation location. Also, please review Eaton's Light Pole White Paper for risk factors and design considerations. Learn more.

Specifications and dimensions subject to change without notice. Consult your lighting representative at Eaton or visit www.eaton.com/lighting for available options, accessories and ordering information.

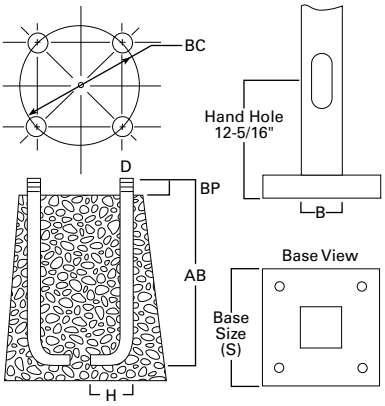
ORDERING INFORMATION

SAMPLE NUMBER: SSA5A20SFM1XG

Product Family	Shaft Size (Inches)[1]	Wall Thickness (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Lengths (Feet)	Options (Add as Suffix)
SSS=Square Straight Steel	**4**=4" **5**=5" **6**=6"	**A**=0.120" **M**=0.188" **X**=0.250"	**10**=10' **15**=15' **20**=20' **25**=25' **30**=30' **35**=35' **39**=39'	**S**=Square Steel Base	**F**=Dark Bronze **G**=Galvanized Steel **J**=Summit White **K**=Carbon Bronze **L**=Dark Platinum **R**=Hartford Green **S**=Silver **T**=Graphite Metallic **V**=Grey **W**=White **X**=Custom Color **Y**=Black	**2**=2-3/8" O.D. Tenon (4" Long) **3**=3-1/2" O.D. Tenon (5" Long) **4**=4" O.D. Tenon (6" Long) **9**=3" O.D. Tenon (4" Long) **6**=2-3/8" O.D. Tenon (6" Long) **7**=4" O.D. Tenon (10" Long) **A**=Type A Drilling **C**=Type C Drilling **E**=Type E Drilling **F**=Type F Drilling **G**=Type G Drilling **J**=Type J Drilling **K**=Type K Drilling **M**=Type M Drilling **N**=Type N Drilling **R**=Type R Drilling **S**=Standard Upsweep Arm **Z**=Type Z Drilling	**1**=Single **2**=2 at 180° **3**=Triple[2] **4**=4 at 90° **5**=2 at 90° **X**=None	**X**=None **2**=2' **3**=2.5' **4**=4' **6**=6' **8**=8'	**A**=1/2" Tapped Hub[3] **B**=3/4" Tapped Hub[3] **C**=Convenience Outlet[4] **E**=GFCI Convenience Outlet[4] **G**=Ground Lug **H**=Additional Hand Hole[5] **V**=Vibration Dampener

NOTES: 1. All shaft sizes nominal. **2.** Square poles are 3 at 90°, round poles are 3 at 120°. **3.** Tapped Hub is located 5' below the pole top and on the same side of pole as hand hole, unless specified otherwise. **4.** Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. **5.** Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

ANCHORAGE DATA



See technical information.

Pole	Template Number	Bolt Number	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)
SSS4	TMP1	AB1	8.5 - 11.0	4	3/4 x 25 x 3
SSS5	TMP1	AB1	11.0	4	3/4 x 25 x 3
SSS6	TMP2	AB3	12.5	4	1 x 36 x 4

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number [1, 2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**80 mph**	**90 mph**	**100 mph**	**110 mph**	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	15.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number [1, 2]	Wall Thickness (Inches)	Base Square [3] (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection [3] (Inches)	Shaft Size [3] (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) [4]				Max. Fixture Load - Includes Bracket (Pounds)
MH			**S**	**BC**	**BP**	**B**	**D x AB x H**		**80 mph**	**90 mph**	**100 mph**	**110 mph**	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
20	SSS5A20S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS6A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SSS6A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
35	SSS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	--	--	200
35	SSS6M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS6X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SSS6M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	--	--	300
39	SSS6X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

NOTES:

1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained.
2. Tenon size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using base wind velocity as indicated plus 30% gust factor.

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Specifications and dimensions subject to change without notice.