



City of Fitchburg
Planning/Zoning Department
5520 Lacy Road
Fitchburg, WI 53711
(608-270-4200)

ARCHITECTURAL & DESIGN REVIEW APPLICATION

Applicant/Contact Person: Potter Lawson Inc., Doug Hursh
Address: 749 University Pkwy #300 Phone Number of Contact Person: 608-274-2741
City, State, Zip Code: Madison, WI 53705 Email of Contact Person: dough@potterlawson.com
Lacy rd, south of
Project Address: T.B.D E. Cheryl Pkwy Lot: 12 Subdivision: Nine Springs
Part of outlot
LOT 1 CSM 15006
Project Type: ☐ Multi-Family ☒ Commercial ☐ Industrial ☐ Other
☒ New ☐ Addition

Impervious Surface Ratio (ISR): 46% (City Standard: maximum 65% ISR)

All items listed below must be included with the application to be considered complete. If an item is not included with the application, the applicant must provide in writing the basis for not including it. Building and site plans submitted to the Fitchburg Plan Commission for architectural and design review shall contain the following information:

Site Data:

- ☒ 1. Lot or property dimensions.
- ☒ 2. Orientation (to north).
- ☒ 3. Adjacent highways, roads, drive, etc.
- ☒ 4. Existing natural features (rivers, ponds, wetlands).
- ☒ 5. Existing buildings and/or improvements.
- ☒ 6. Existing and proposed site drainage.
- ☒ 7. Utility plans, including main/lateral sizes and existing fire hydrants on site or within 300 feet of the site
- ☒ 8. ISR shall be indicated on all plans.
- ☒ 9. Stormwater management plans and details, including grading plan.
- ☒ 10. Lighting plan in footcandles and light fixture cut sheets.

Building:

- ☒ 1. Building size, configuration and orientation.
- ☒ 2. Distance from lot lines.
- ☒ 3. Distance from other buildings, improvements and natural features.
- NA. ☐ 4. Location of well, septic tank, drainfield, etc. (if applicable)
- ☒ 5. Additional proposed additions or new structures, including trash/recycling enclosure(s).
- ☒ 6. Construction type (wood frame, structural steel, etc.).
- ☒ 7. Foundation type (full basement, slab on grade, etc.).
- ☒ 8. Number of levels.
- ☒ 9. Siding/exterior covering type, color, texture, etc.
- ☒ 10. Roof type (gable, hip, shed, flat, etc.) and pitch.
- ☒ 11. Roofing material type, color, texture, etc.
- ☒ 12. Exterior door and window location, size, type, etc.
- ☒ 13. Fire protection sprinklers or fire alarm systems.

Ingress, Egress, Parking:

- ☒ 1. Location of highway and road access points.
- ☒ 2. Location, size, configuration of drivers and walks.
- ☒ 3. Number, size, location of parking spaces.
- ☒ 4. Location of handicapped parking and accessible building entrances.
- ☒ 5. Bicycle rack(s).

ARCHITECTURAL AND DESIGN REVIEW APPLICATION

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Landscaping:



1. Location, species, size of existing trees, shrubs, and plantings.
2. Location, species, size of proposed plantings.
3. Location and size of all paved, seeded/sodded and gravelled areas.
4. Location of all retaining walls, fences, berms and other landscape features.

***It is highly recommended that an applicant hold at least one neighborhood meeting prior to submitting an ADR application to identify any concerns or issues of surrounding residents.**

The preceding information is considered to be the minimum information for submission, and the City may require additional information for its review. Any interpretations provided by city officials as the result of submitting the attached information are based on the submitted plans, and any plan changes, may affect the interpretations.

It is the responsibility of the owner/applicant to insure compliance with all local and state requirements. The below signed applicant acknowledges the above information and hereby submits the attached information for the City's Architectural and Design Review Process.

Signed: _____

Applicant or Authorized Agent

Date: _____

7.23.19

***** Application shall be accompanied by one (1) sets of full-size plans, two (2) sets no larger than 11"x17", and one (1) pdf document of the complete submittal to planning@fitchburgwi.gov. Applications are due at least 4 weeks prior to the desired Plan Commission Meeting. The time frame assumes a complete set of plans is provided, and if it is not provided the Plan Commission date will be adjusted.**

FOR CITY USE ONLY

Date Received: _____

7/23/19

Plan Commission Date: _____

8/20/19

Comments:



July 23, 2019
Via email and hand delivery

Plan Commission, City Planning and Zoning Departments
City of Fitchburg
5520 Lacy Road
Fitchburg, WI 53711

Re: Cover Letter for proposed development
Phoenix, LLC
Lacy Road, Fitchburg WI

Dear Commission and Staff Members:

We are pleased to submit the enclosed documents for the City of Fitchburg's Architectural and Design Review. The proposed Phoenix, LLC project is phased and consists of two buildings with parking and site amenities. Although the proposed site plan indicates the master plan for the entire site (two phases), the submission for review is only for the Phase Two building and associated site design.

Phase One includes a 10,000 sf, single story imaging facility with office support. Construction has begun with an estimated completion date of Summer 2019. This building is considered an "out-building" and is located on the southern portion of the site adjacent to the wetlands. Vehicle/truck access to this facility will be from a proposed entrance drive off Lacy Road at the southwest corner of the site. Siting of the Phase One building is due to maintaining required distances from adjacent structures to accommodate the Imaging process. Future expansion, parking for 15 vehicles, loading requirements, bike parking, trash pick-up and fire department access have all been incorporated into the design for the Phase One building.

Phase Two includes a 47,400 sf manufacturing facility including a loading dock and one story office component. Construction is to commence fall 2019 with a completion date of fall 2020. This building will be the primary facility on the site and is located along Lacy Road to maximize street frontage and public visibility. The site accommodates a 60,000 sf expansion along Lacy Road, however, no date has been established as to when the expansion will occur. 120 parking stalls have been designated for Phase Two with future expansion capabilities. Vehicle and truck access will occur at the proposed northeast corner of the site with the truck drive diverted around the parking lot to minimize cars backing into truck traffic. Trucks will exit the site at the southwest driveway. Bike parking, trash pick-up and fire department access have all been incorporated into the master plan.

We are excited to present the design for the Phoenix, LLC complex to the City of Fitchburg and look forward to working with you as the project moves forward. Thank you and please contact me if you have any questions regarding this submittal.

Sincerely,

Doug Hursh
Potter Lawson, Director of Design



City of Fitchburg
Planning/Zoning Department
5520 Lacy Road
Fitchburg, WI 53711 (608-270-4200)

SMARTCODE BUILDING/SITE PLAN APPLICATION (ARTICLE 5)

1. Location of Property:

Street Address: T.B.D. Lacy Rd - South of E. Cheryl Parkway
Legal Description - (Metes & Bounds, or Lot No. And Plat): Part of Outlot 12, Nine Springs

2. Description of Project: Phase 2, 47,400 SF single story office/manufacturing facility.

3. Existing Transect Zone: - Article 3 or Article 4 approval date: T.B.D.

4. Size of Site: 10.4 acres Site Density (if applicable): NA

5. Building/Site Plan applications shall provide plans and information showing the following:

- | | |
|--|--|
| ☒ 1. Building Disposition | ☒ 13. Signage Standards (Future Submittal) |
| ☒ 2. Building Configuration | ☒ 14. Special Requirements, if any |
| ☒ 3. Building Use | ☒ 15. Architectural Standards |
| ☒ 4. Parking calculation & location | ☒ 16. Fencing Standards |
| ☒ 5. Number of dwelling units | ☒ 17. Lighting Standards |
| ☒ 6. Base Residential Density | ☒ 17. Grading Plan |
| ☒ 7. Building square footage | ☒ 18. Statistics, maps and other documentation |
| ☒ 8. All requests for Administrative Waivers, if any | showing how the Article 5 application, in |
| ☒ 9. All requests for Administrative Approvals, if any | combination with the past approved Article 5 |
| ☒ 10. All known requests for Conditional Use | plans, will meet the approved Community |
| Per SD2 ☒ 11. Civic Building design(s) | Regulating Plan, and the standards of this |
| ☒ 12. Landscape Standards | Chapter. |

***Also submit all mapping in either CADD or GIS files

Current Owner(s) of Property: Phoenix RE, LLC

Address: 749 University Row, Suite 100 Phone No.: 608-260-7007

Contact Person: Paul Lenhart E-mail: plenhart@kruppconstruction.com

Address: 749 University Row, Suite 100 Phone No.: 608-260-7007

Respectfully Submitted By: [Signature] Date: 7.23.19

Owner's or Authorized Agent's Signature

*(If multiple owners, application shall include statement of consent by all property owners)

PLEASE NOTE – Applicants shall be responsible for legal or outside consultant costs incurred by the City. It is the responsibility of the owner/applicant to insure compliance with all local and state requirements.

*Application shall be accompanied by one (1) PDF document of complete submittal, one (1) full-size set of plans, two (2) reduced sets of plans (11" x 17"), and the required CADD or GIS files for mapping.

FOR CITY USE ONLY

Date Received: _____ Permit Request No.: _____

SITE PLAN REVIEW CHECKLIST:

<u>YES</u>	<u>NO</u>	
☒	☐	Signed and completed Building / Site Plan – Article 5 Application
☒	☐	Proposals / design compliant with Ch. 23 SmartCode District
☒	☐	Vicinity map (no larger than 11 x 17)
☒	☐	2 (two) reduced size (11 x 17) plan sets
☒	☐	1 (one) full set of bounded drawings, include landscape plans
☒	☐	1 (one) electronic copy (.tif or .pdf) of the plan set
☒	☐	CADD or GIS files for all mapping
		<u>Plans to include existing and proposed information on the following:</u>
☒	☐	Location of structures, improvements and landscaping
☒	☐	North arrow and scale bar
☒	☐	Site boundaries
☒	☐	Setback distance from property lines
☒	☐	Rights-of-way, property lines and easements
☒	☐	Location & dimensions of driveways, streets and sidewalks
☒	☐	On-site parking and circulation
☒	☐	Location of loading spaces, if applicable
☒	☐	Location of trash receptacle enclosure
☒	☐	Location of all outdoor electrical, plumbing and mechanical equipment
☒	☐	Landscaping Plan for site
☐	☒	Signage Plan for site (type & fixtures) [Future Submittal]
☒	☐	Elevations for each side of the building detailing the materials & colors
☐	☐	Fencing Plan (if installing fence) [N.A.]
☒	☐	Lighting Plan (in footcandles) & fixtures cut-sheets
☒	☐	Grading Plan
☒	☐	Site plan data table containing: transect zone, site size in square feet or acres, lot coverage by building in square feet and percentage, residential density in units per acre (if applicable), square feet of impervious surface and parking and landscaping calculations.

ARTICLE 5 SUPPLEMENTAL FORM:

Building Disposition:

Lot(s) Part of Outlot 12
Nine Springs Plat LOT 1 CSM 15006

Transect Zone: —

Lot Width varies - see
site plan Lot Coverage 13%

Type of Building: ☒ Edgeyard ☐ Sideyard ☐ Rearyard ☐ Courtyard ☐ Specialized

Principal Building Setbacks: Front (principal) 18.5' - 21.5' Front (secondary) — Side 105' - 528' Rear 318' - 515'

Primary Setback: 18.5' feet Frontage buildout (if applicable): 30 %

Outbuilding: ☒ Yes ☐ No (In Phase 1)

Outbuilding Setbacks: Front 475' - 552' Side varies Rear 17' - 19'

Building Configuration:

Type of Private Frontage: ☐ Common Yard ☐ Porch & Fence ☐ Light court ☐ Forecourt

N.A.

☐ Stoop ☐ Shopfront ☐ Gallery ☐ Arcade

☐ Parking Lot ☐ Common Entry & Planter

% of clear glass of 1st story Façade: 15 %

Overall building height: 16' - 39' - 2" feet 1 stories

1st story: 16' - 39' - 2" feet

2nd story: — feet

[X] story: — feet

Building Use:

Use of principal building: Phase 2: office/Tech manufacturing

of residential dwelling units in principal building (if applicable): N.A. dwelling units

Use of accessory building: Phase 1: Imaging

*If multiple uses in building, please provide square footage of each type of use.

Parking & Density:

of parking stalls provided within the Lot: Phase 1 = 15, Phase 2 = 22

of parking stalls along parking lane corresponding to the Lot Frontage: 0

of parking stalls by lease or purchase from a Civic Parking Reserve within the Community Unit: 0

If looking to use Effective Parking standards, applicant shall provide completed Parking Occupancy Rate Table (Table 20)

Current density for transect zone within the block: — (per 5.9.2f)

Parking Location:

Drive width: 24'-30'

Material of parking / drive areas: Asphalt

Landscape:

% of landscape area of 1st Layer of Principal Frontage: 80 % (minimum 30%)

% of landscape area of 1st Layer of Secondary Frontage: N/A % (minimum 30%)

of trees planted within the 1st Layer: 1

Requirements: T3 – 1 tree shall be planted within the 1st Layer for every 800 sq. ft of landscape area

T4 – minimum of 1 Understory Tree or 6 shrubs planted within 1st Layer for every 500 sq. ft. of 1st Layer landscape area.

T5 – Trees not required in 1st Layer.

Signage:

(Future Submittal)

A or B grid street: —

Type of sign: —

(* note: A sign permit is required for all signs)

Architectural:

Type of building materials: See Elevations A201 + A202, Cut sheets
(See Section 5.13.4.c for requirements if using vinyl product.)

For single-family Edgeyard & Sideyard Residential, durable material used in height of 2 ft. above grade:

N.A.

Fence: ☐ Yes ☒ No

If yes, fence at the 1st Layer shall be painted or stained.

Balcony or porch: ☐ Yes ☒ No

If yes, material of railings: —

Fencing:

Height of fence (if applicable): — feet

Lighting:

Are all parking lot and exterior building lighting on private lots dark sky approved or full cut-off fixtures? ☐ Yes ☐ No

Average lighting levels, in footcandles, at the building frontage line: See Lighting Photometrics Plan E1.0

Phoenix, LLC
Lacy Road
Fitchburg, WI 53711
2017.40.02

Lacy Road

Fitchburg, WI 53711

2017.40.02

Drawing Index

B = Issued for Bidding

R = Issued for Reference Only

DWG #	07/23/2019 City of Fitchburg Submittal
Drawing Title	
GENERAL	
CDD1	Cover Drawing
	R
CIVIL	
C001	Existing Topo
C101	Phase 2 Site Plan
C201	Phase 2 Grading and Erosion Control Plan
C301	Phase 2 Utility Plan
C401	Detail Sheet
	R
LANDSCAPE	
L101	Landscape Plan
L102	Landscape Plan
L201	Landscape Plan Detail Sheet
	R
ARCHITECTURAL	
A003	Exterior Images
A101	First Floor Plan - North
A102	First Floor Plan - South
A103	Clerestory Plan
A104	Roof Plan - North
A105	Roof Plan - South
A201	Building Elevations
A202	Building Elevations
	R
ELECTRICAL	
E1.0	Site Light Calc
	R



1 VACINITY MAP
CD01 NTS

Success by **Design**

608-274-2741

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Lacy Road
Fitchburg, WI 53711

2017.40.02

[illegible]

Cover Drawing

CD01

Lacy Road
Fitchburg, WI 53711

2017.40.02

[illegible]

Existing Topo

C001



NOTES

1. Parcel "A" area = 452,973 square feet (10.399 acres).
2. Survey data provided by Vierbicher Associates.
3. Existing conditions shown as of 6/28/2018 prior to development



Notes:

Phoenix Headquarters
Phoenix, LLC
Lacy Road
Fitchburg, WI 53711

2017.40.02

[illegible]

Phase 2 Site Plan

C101



D'ONOFRIO KOTTKE AND ASSOCIATES, INC.

Notes:

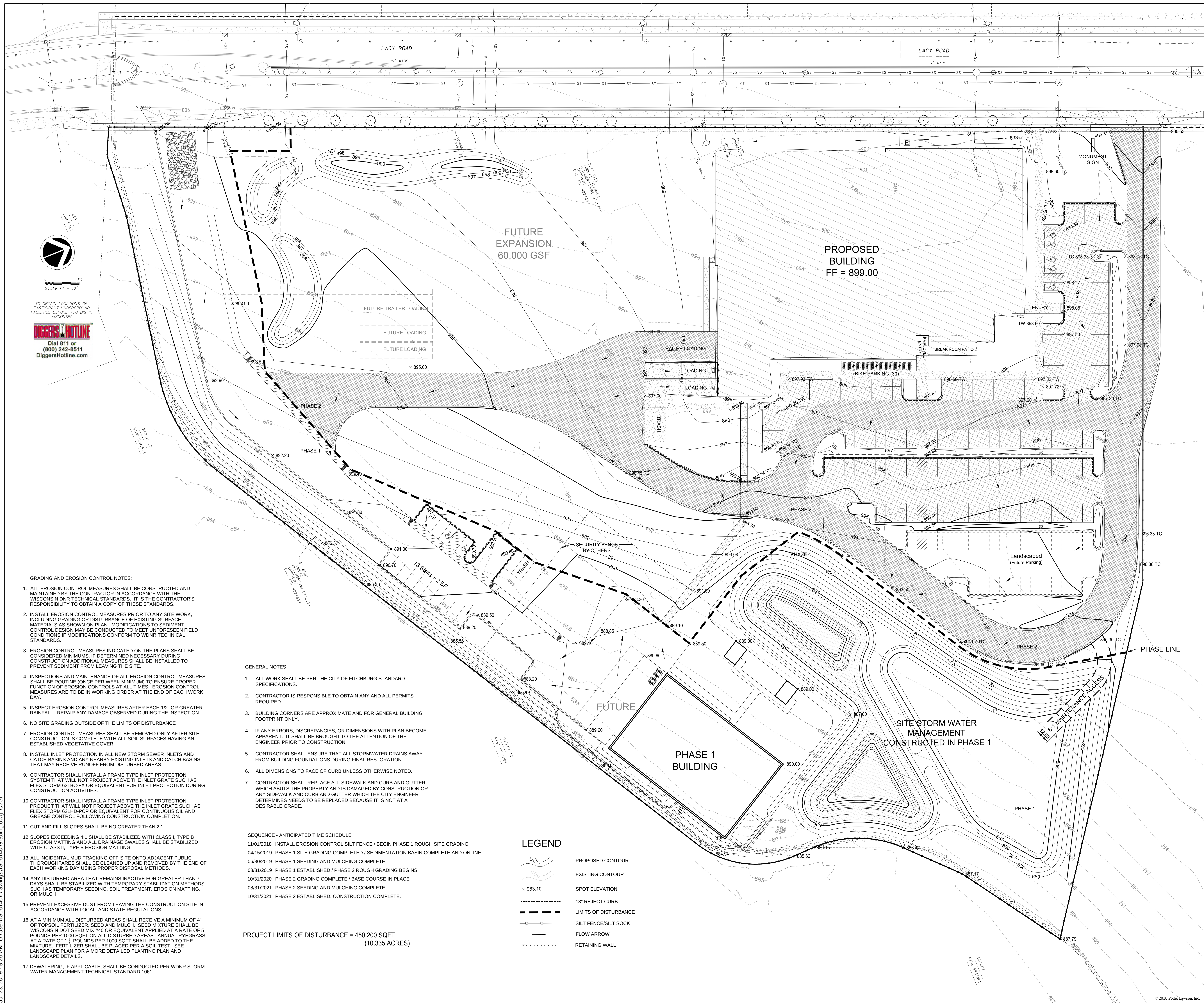
Lacy Road
Fitchburg, WI 53711

2017.40.02

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Phase 2 Grading and Erosion Control Plan

C201



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Notes:

Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.02

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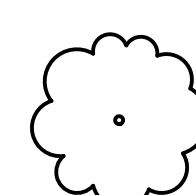
Phase 2 Utility Plan

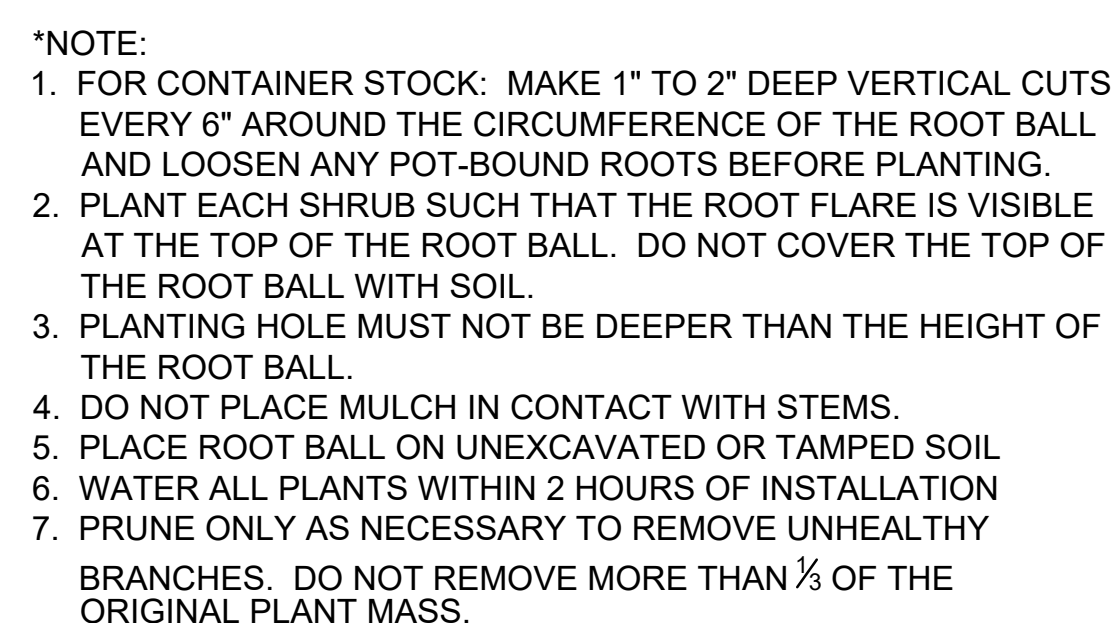
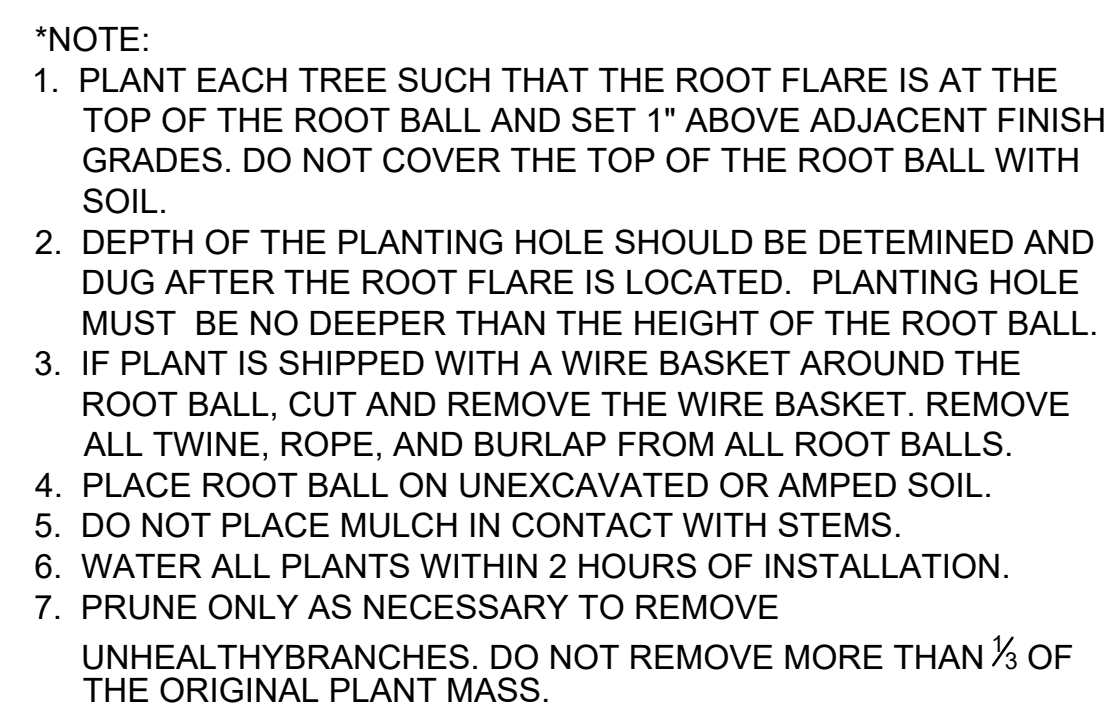
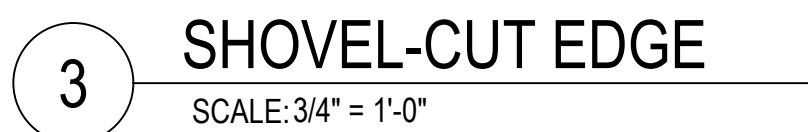
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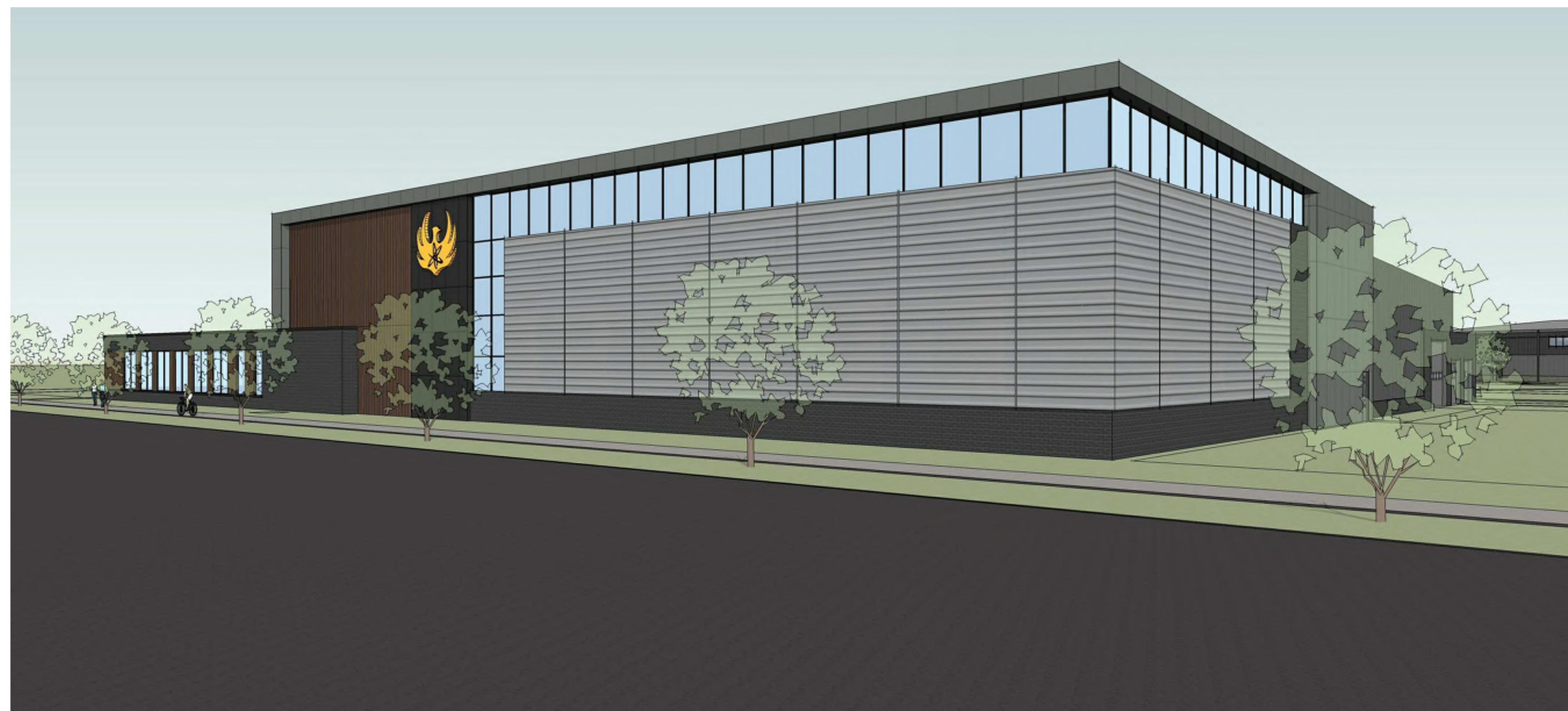
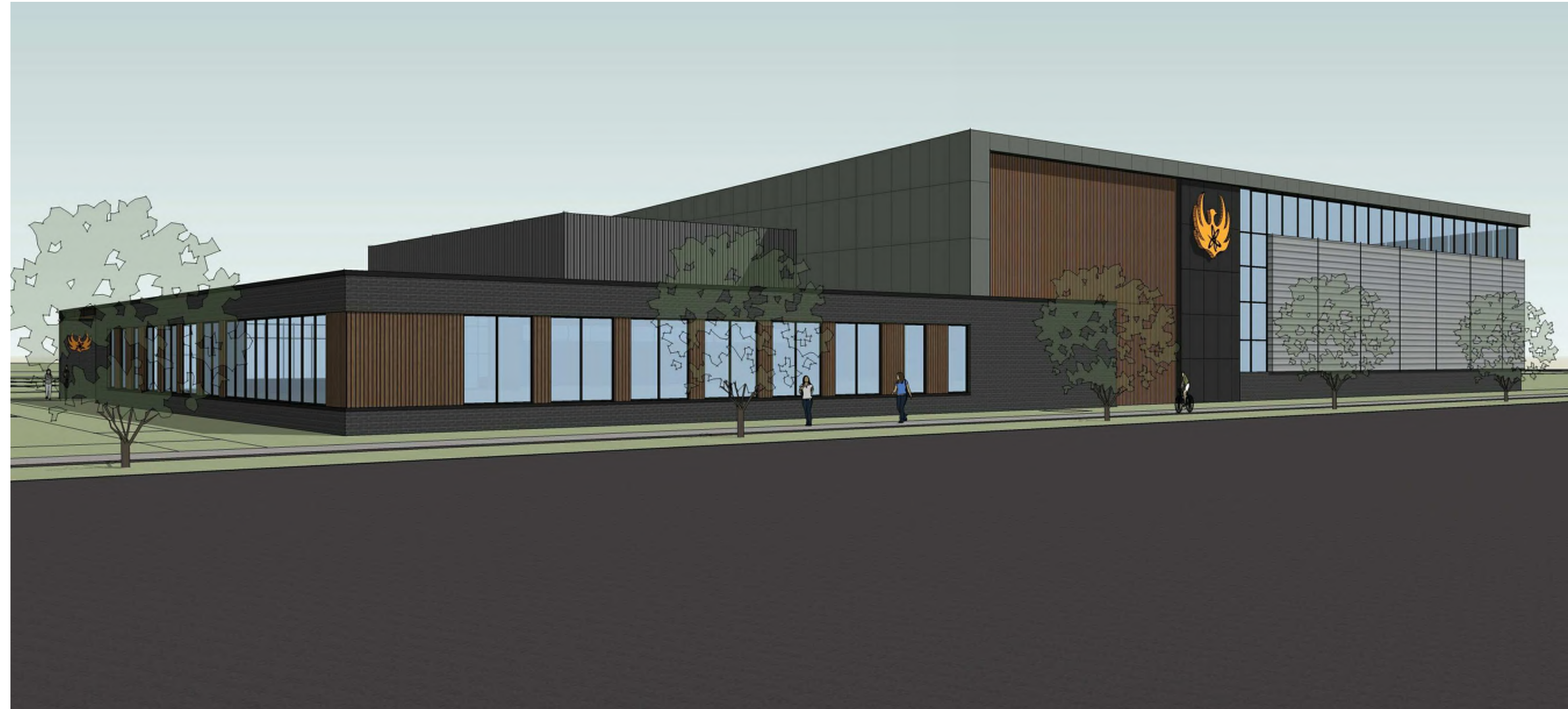
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L101









**Potter
Lawson**
Success by **Design**



Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.02

Date	Issuance/Revisions	Symbol
07/23/2019	City of Fitchburg Submittal	

PRELIMINARY
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Exterior Images

A003

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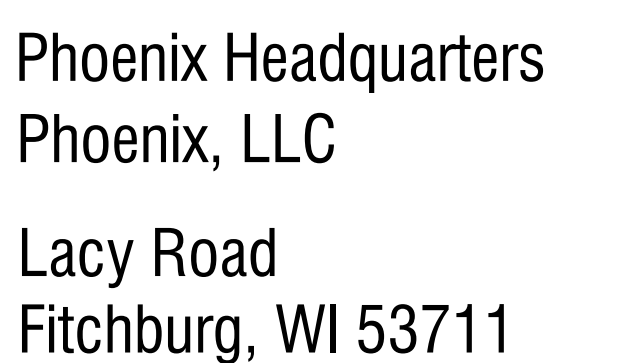
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1. SEE REFLECTED CEILING PLANS FOR ROLLER SHADE LOCATIONS.
2. CONSTRUCTION TYPE TO BE IIB, STRUCTURAL STEEL.
3. FOUNDATION TYPE TO BE SLAB-ON-GRADE.
4. FIRE SPRINKLER AND FIRE ALARM TO BE COMPLIANT WITH NFPA 13, 2015 ADDITION.

FLOOR PLAN KEYNOTES:

- 1 PROVIDE POWER AND DATA, COORDINATE WITH FURNITURE LAYOUT.
- 2 FLOOR BOX WITH POWER AND DATA.
- 3 POWER ASSIST DOOR ACTUATOR.
- 4 INTERCOM
- 5 MONITOR, OFOI, PROVIDE BLOCKING AS REQUIRED.
- 6 4"x8" GLASS MARKERBOARD. PROVIDE BLOCKING AS REQUIRED.
- 7 4"x8" PORCELAIN MARKERBOARD. PROVIDE BLOCKING AS REQUIRED.
- 8 CARD READER
- 9 PROVIDE POWER THROUGH FLOOR FOR WORKSTATIONS. COORDINATE LOCATIONS WITH FURNITURE VENDOR AND FINAL FURNITURE LAYOUT.
- 10 HALF HEIGHT LOCKERS 15"W x 21"D x 72"H.
- 11 KNOX BOX



2017.40.02

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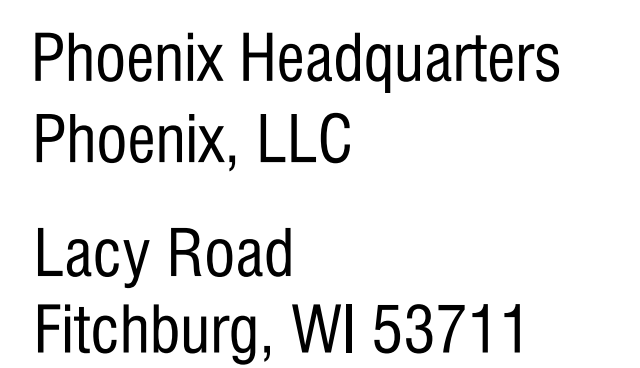
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First Floor Plan - North

A101

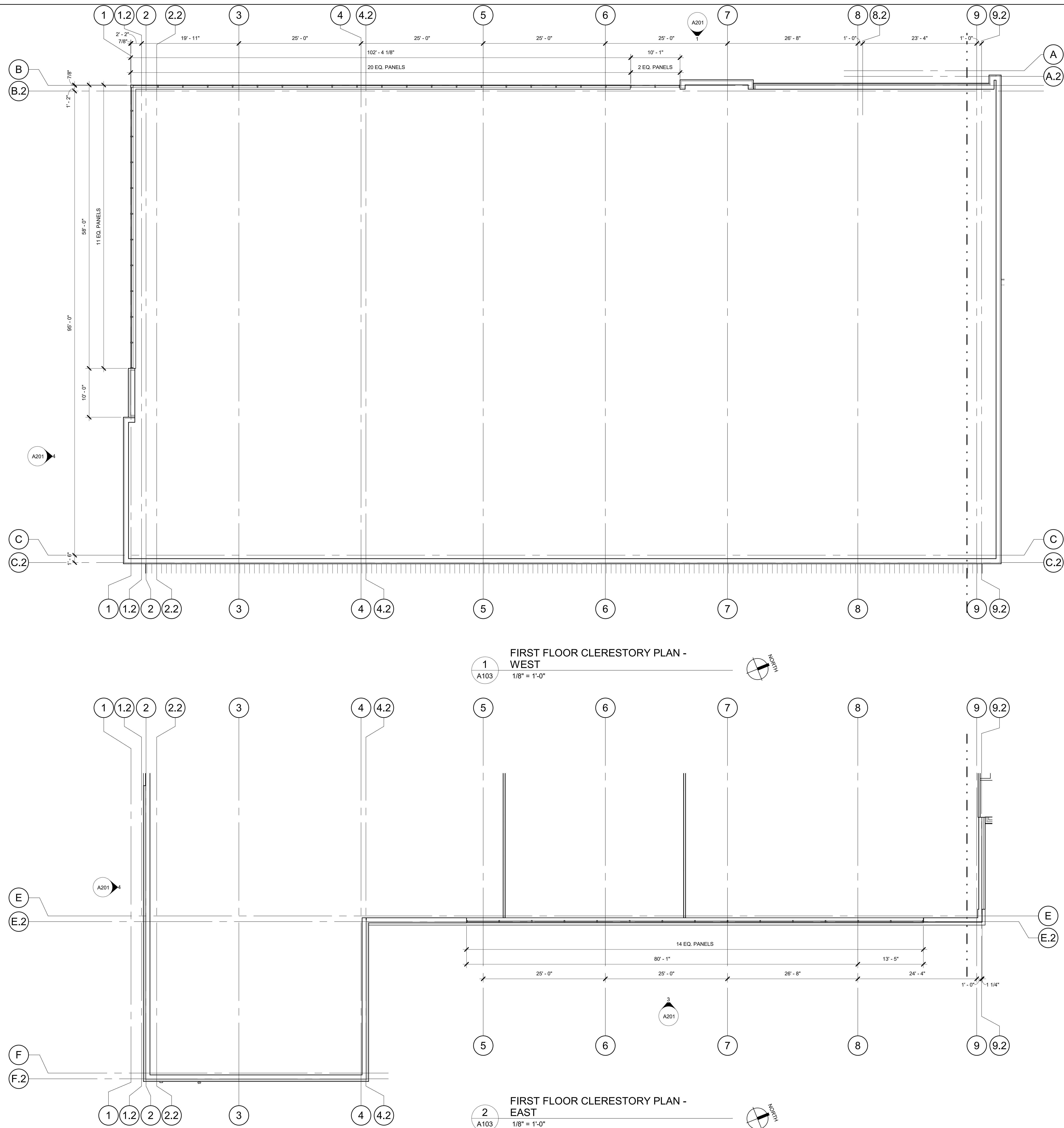


1. SEE REFLECTED CEILING PLANS FOR ROLLER SHADE LOCATIONS.
2. CONSTRUCTION TYPE TO BE IIB.
3. FOUNDATION TYPE TO BE SLAB-ON-GRADE.
4. FIRE SPRINKLER AND FIRE ALARM TO BE COMPLIANT WITH NFPA 13, 2015 ADDITION.

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PRELIMINARY
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A103



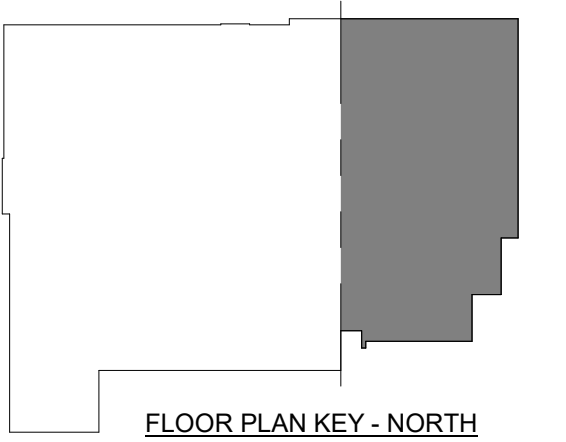


KEYNOTES:

- 1 STANDING SEAM INSULATED ROOF PANEL BY METAL BUILDING MANUFACTURER.
- 2 ARCHITECTURAL "V"-RIB METAL PANEL SCREEN WITH GALVANIZED STEEL TUBE SUPPORTS
- 3 DOWNSPOUT.
- 4 GUTTER.
- 5 EPDM ROOF SYSTEM.
- 6 SNOW RETENTION SYSTEM PROVIDED BY METAL BUILDING MANUFACTURER.
- 7 ROOF DRAIN.
- 8 OVERFLOW DRAIN.

LEGEND:

- TAPERED INSULATION AT 1/4"
PER 1'-0" MIN.
- STANDING SEAM INSULATED
METAL ROOF



Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

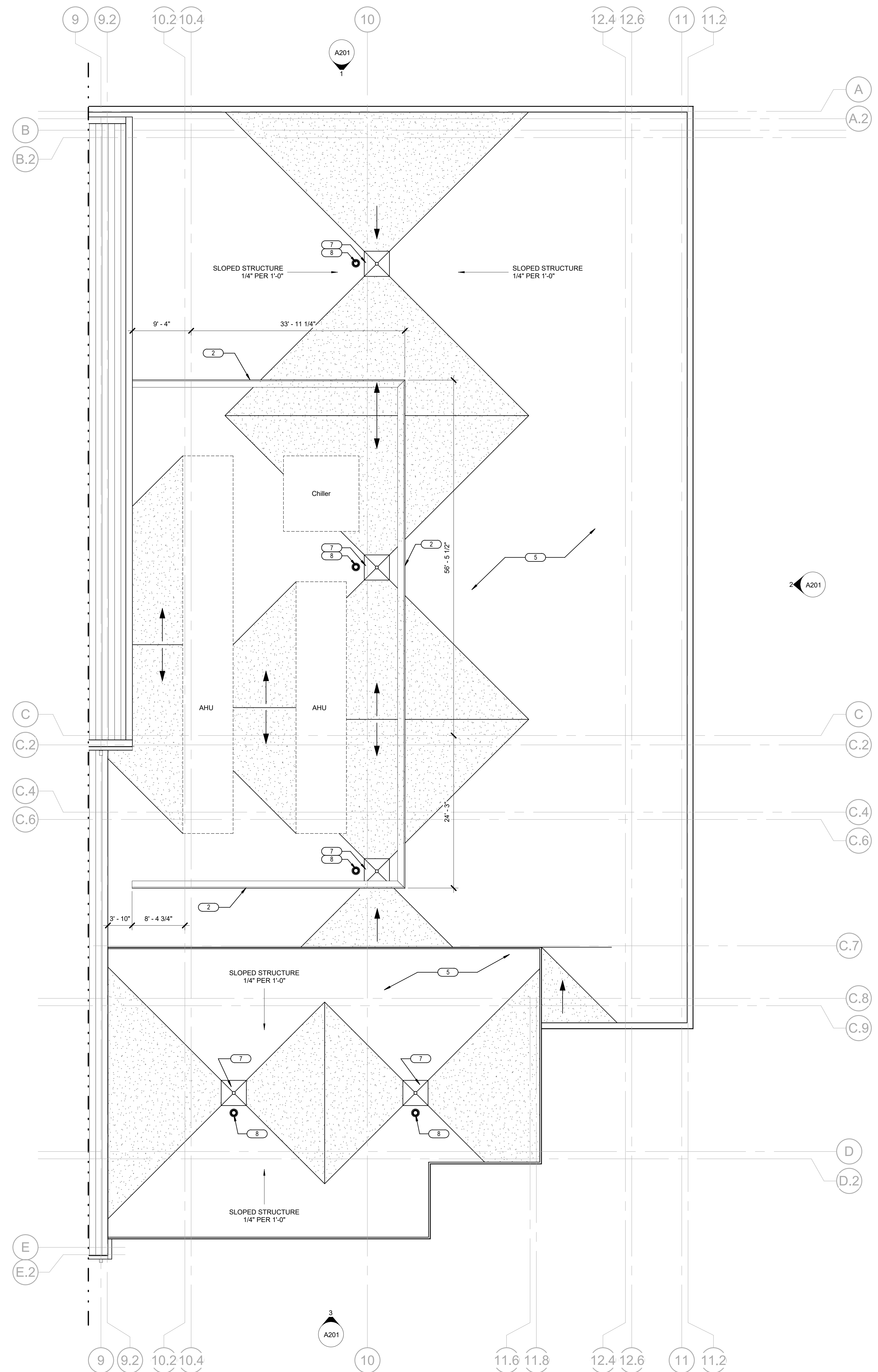
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Roof Plan - North

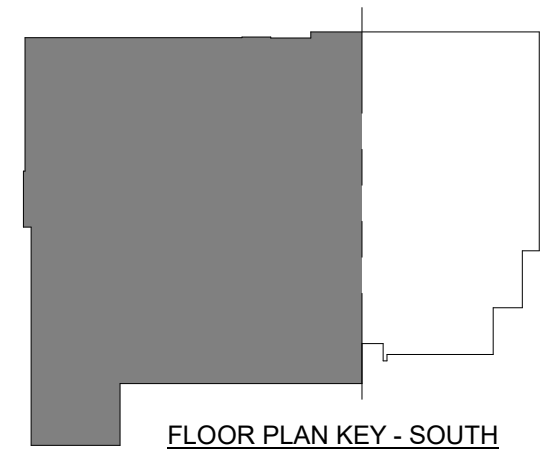
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1. STANDING SEAM INSULATED ROOF PANEL BY METAL BUILDING MANUFACTURER.
2. ARCHITECTURAL "V"-RIB METAL PANEL SCREEN WITH GALVANIZED STEEL TUBE SUPPORTS
3. DOWNSPOUT.
4. GUTTER.
5. EPDM ROOF SYSTEM.
6. SNOW RETENTION SYSTEM PROVIDED BY METAL BUILDING MANUFACTURER.
7. ROOF DRAIN.
8. OVERFLOW DRAIN.

 TAPERED INSULATION AT 1/4"
PER 1'-0" MIN.

 STANDING SEAM INSULATED
METAL ROOF

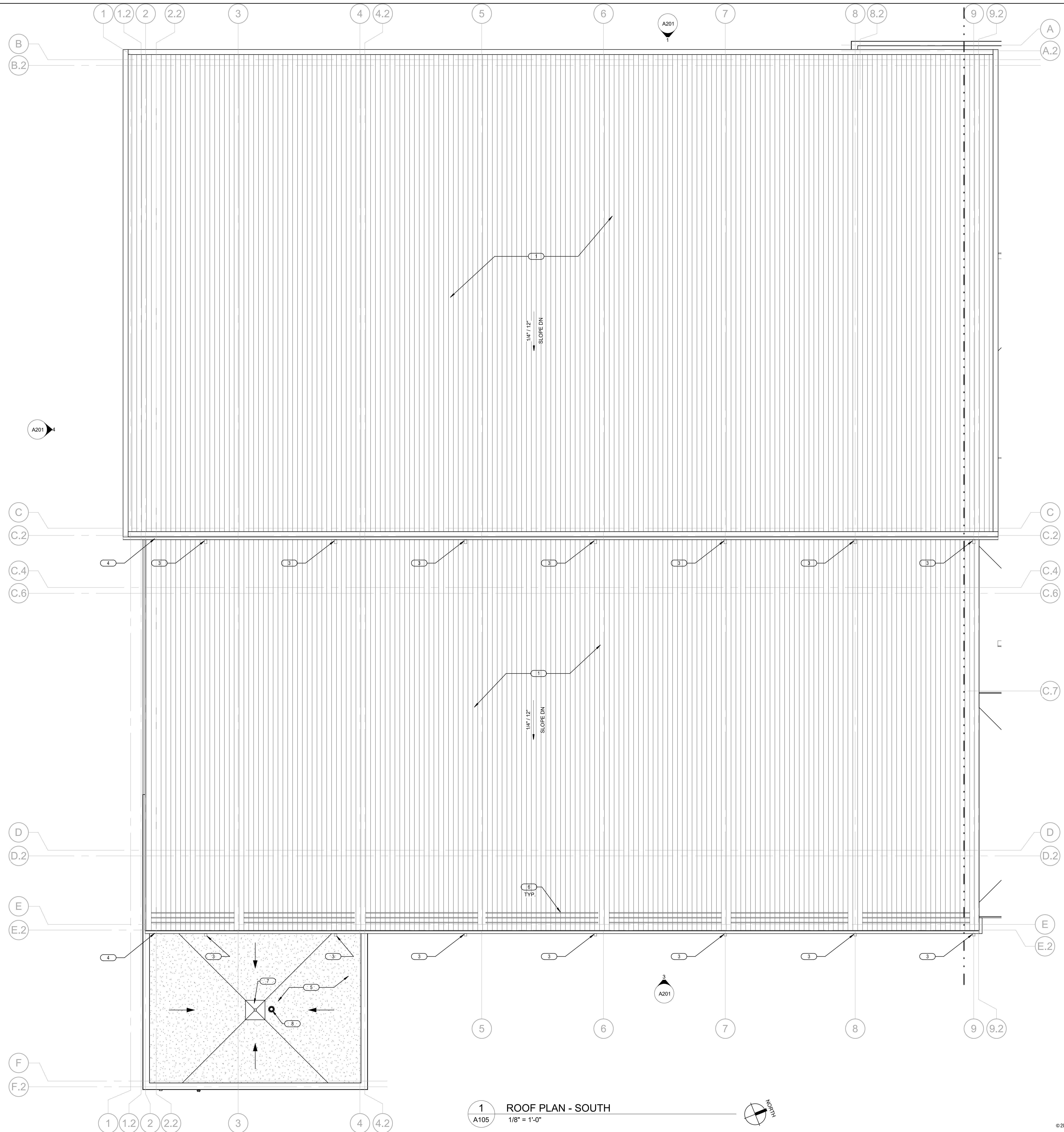


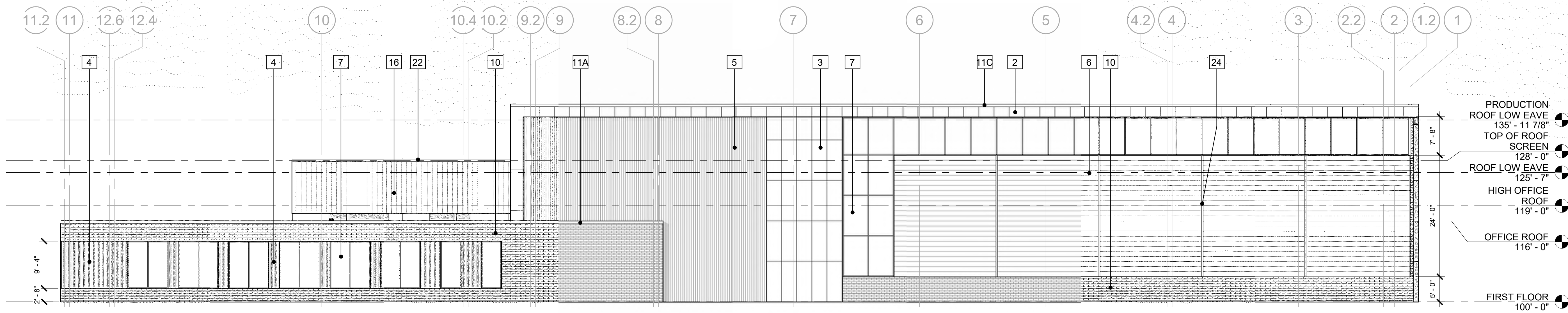
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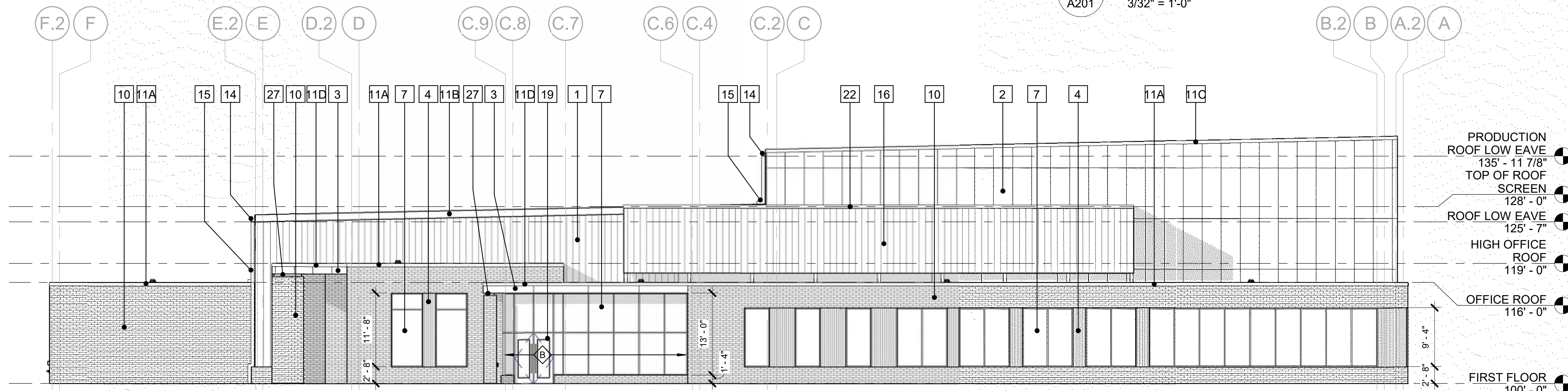
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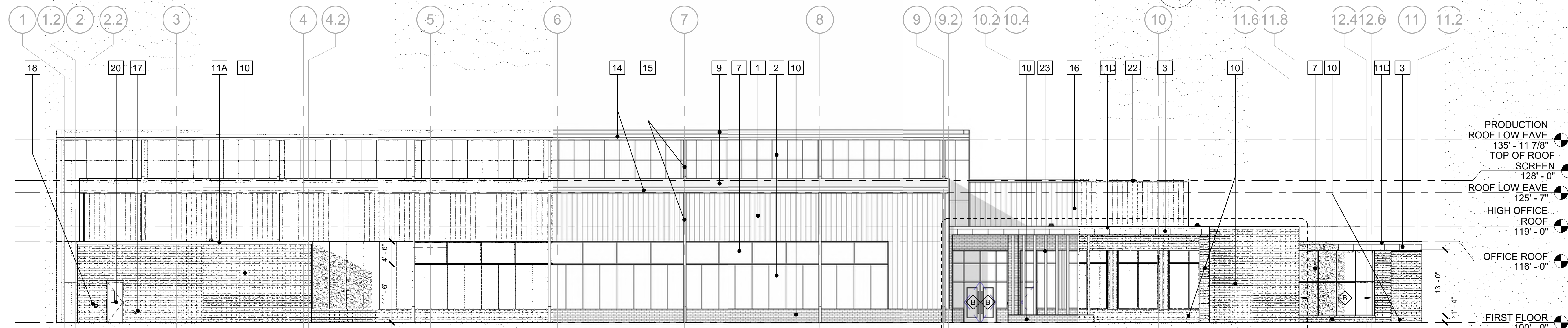




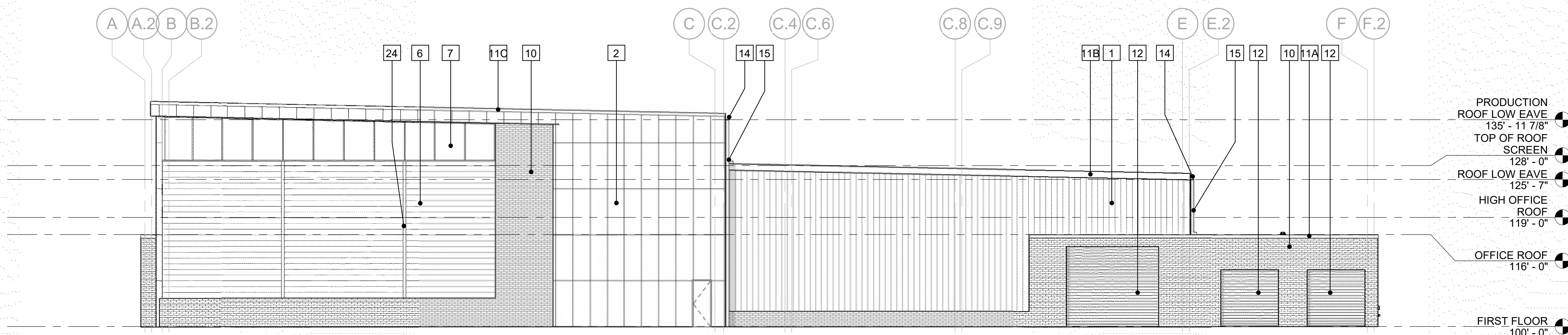
1 WEST ELEVATION
A201 3/32" = 1'-0"



2 NORTH ELEVATION
A201 3/32" = 1'-0"



3 EAST ELEVATION
A201 3/32" = 1'-0"



4 SOUTH ELEVATION
A201 3/32" = 1'-0"

INSULATING GLASS TYPES (IGU)

ALL IGU TYPES ARE TYPE "A"
UNLESS NOTED OTHERWISE

A IGU - A CLEAR VISION GLASS

B IGU - B CLEAR VISION GLASS, FULLY TEMPERED

KEYNOTES:

1 METAL PANEL TYPE 1: ARCHITECTURAL V-RIB METAL PANEL (CHARCOAL GRAY)

2 METAL PANEL TYPE 2: INSULATED METAL PANEL, SMOOTH (PEWTER)

3 METAL PANEL TYPE 3: INSULATED METAL PANEL, SMOOTH (RICH BLACK)

4 METAL PANEL TYPE 4: 3" VERTICAL EXTRUDED ALUMINUM SIDING, FLOATING SYSTEM w/ 1" SPACING (LIGHT NATIONAL WALNUT)

5 METAL PANEL TYPE 5: 5" VERTICAL EXTRUDED ALUMINUM SIDING, FLOATING SYSTEM w/ 1" SPACING (LIGHT NATIONAL WALNUT)

6 METAL PANEL TYPE 6: HORIZONTAL CONCEALED FASTENER METAL PANEL (SILVERSMITH)

7 ALUMINUM STOREFRONT SYSTEM (ANODIZED BLACK)

8 NOT USED

9 STANDING SEAM INSULATED ROOF PANEL (COLOR XXXX) PROVIDED BY METAL BUILDING MANUFACTURER

10 BRICK TYPE 1: 4X4X12 BRICK VENEER (BLACK ICE)

11 PREFINISHED METAL FASCIA (COLOR TO MATCH ADJACENT BUILDING MATERIAL)

11A BRICK TYPE 1: RICH BLACK

11B METAL PANEL TYPE 1: CHARCOAL GRAY

11C METAL PANEL TYPE 2: PEWTER

11D METAL PANEL TYPE 3: RICH BLACK

12 INSULATED METAL OVERHEAD COILING DOOR

13 NOT USED

14 GUTTER PROVIDED BY METAL BUILDING MANUFACTURER. MATCH COLOR OF ADJACENT MATERIAL.

15 DOWNSPOUTS PROVIDED BY METAL BUILDING MANUFACTURER (COLOR TO MATCH COLOR OF ADJACENT MATERIAL).

16 METAL PANEL TYPE 1: ARCHITECTURAL V-RIB METAL PANEL SCREEN WALL (CHARCOAL GRAY) WITH GALVANIZED STEEL SUPPORTS.

17 FIRE DEPARTMENT CONNECTION

18 KNOX BOX

19 ALUMINUM STOREFRONT DOOR AND FRAME (ANODIZED BLACK)

20 HOLLOW METAL DOOR AND FRAME

21 BRICK VENEER TRASH ENCLOSURE (BRICK TYPE 1), MATCH BUILDING COURSING AND COLOR.

22 METAL COPING TO MATCH COLOR OF ADJACENT MATERIAL.

23 GALVANIZED STEEL TUBE, PRIMED AND PAINTED (BLACK)

24 VERTICAL METAL TRIM (SILVERSMITH)

25 CARD READER

26 POWER ASSIST DOOR ACTUATOR

27 METAL TRIM REVEAL (RICH BLACK)

28 COMPOSITE LUMBER TRASH ENCLOSURE GATE

Potter
Lawson
Success by Design

KRUPP
GENERAL CONTRACTORS

PHOENIX

Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

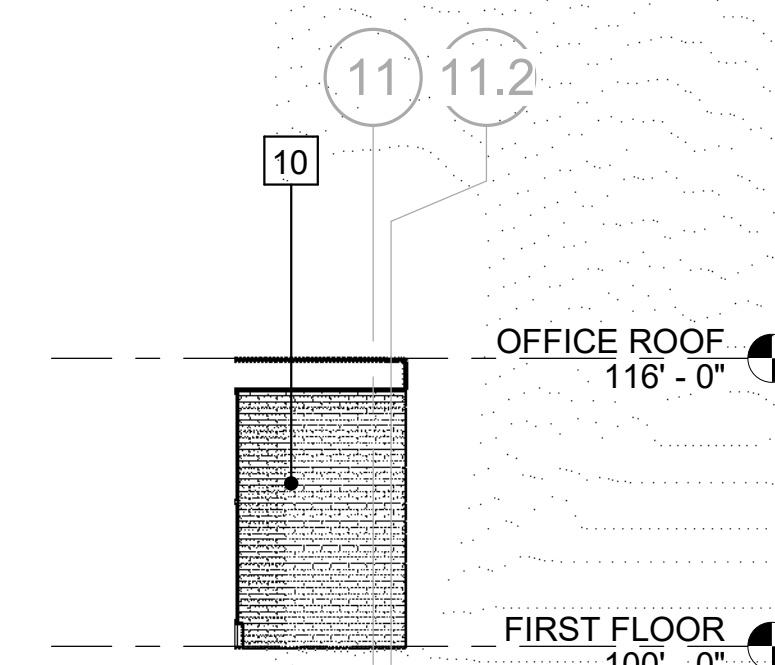
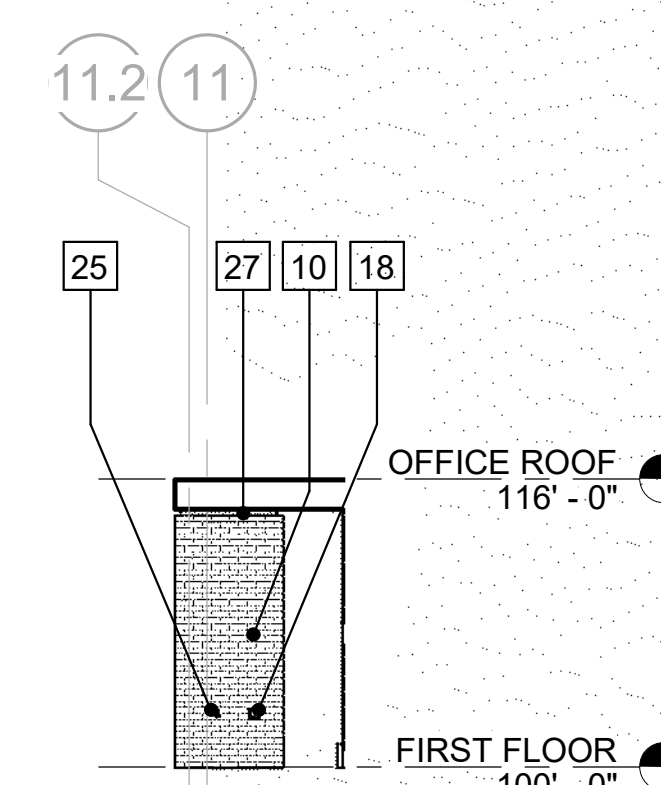
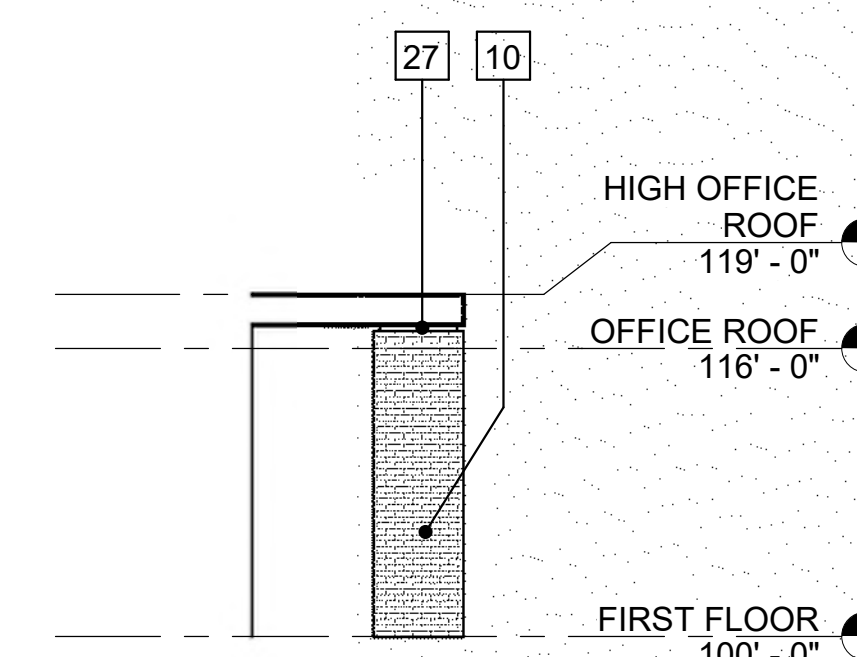
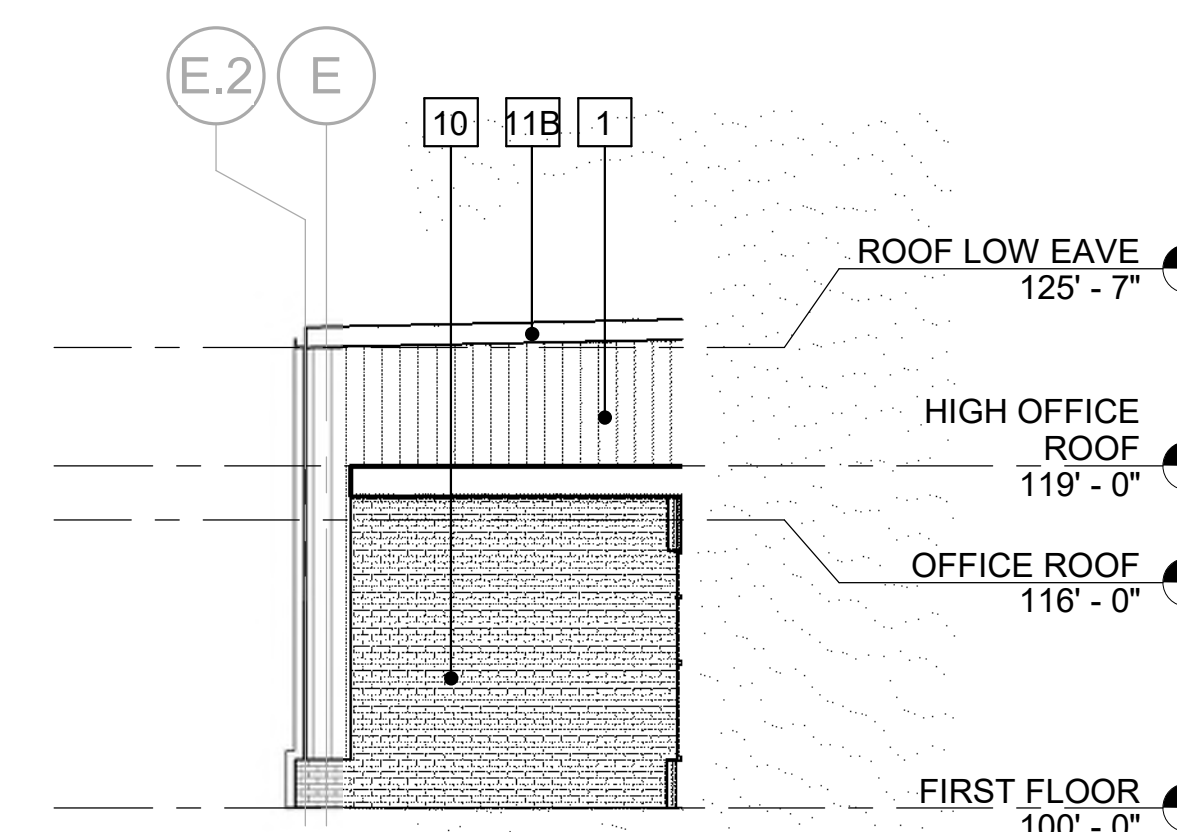
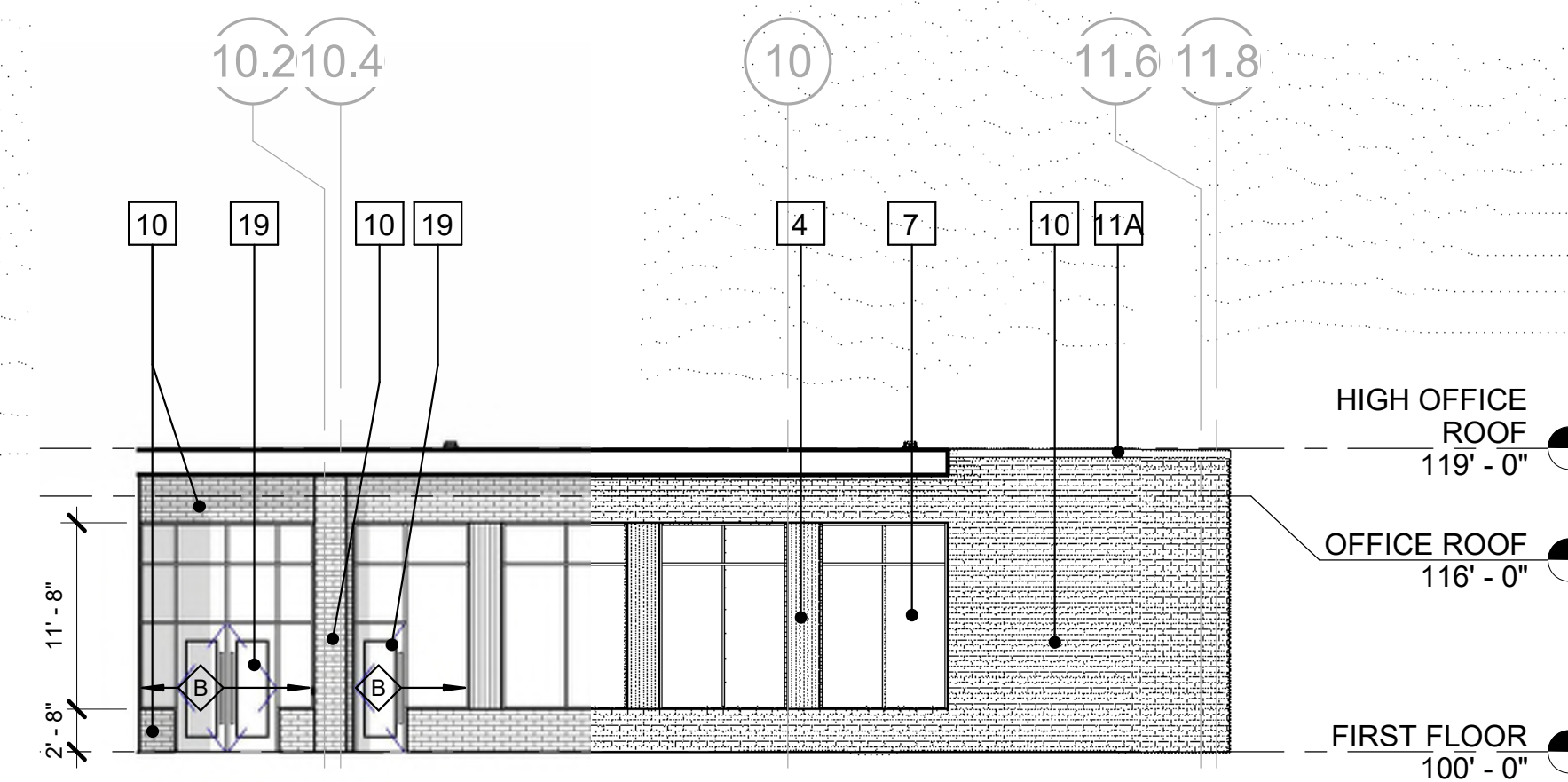
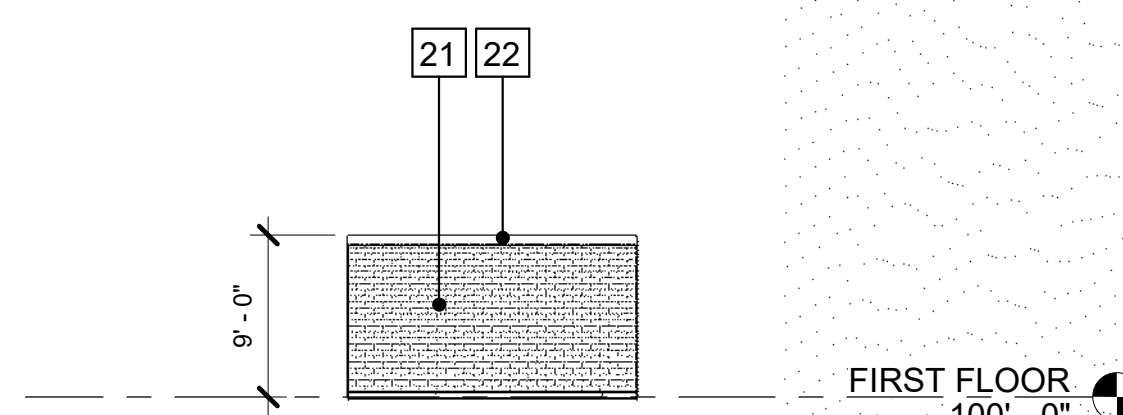
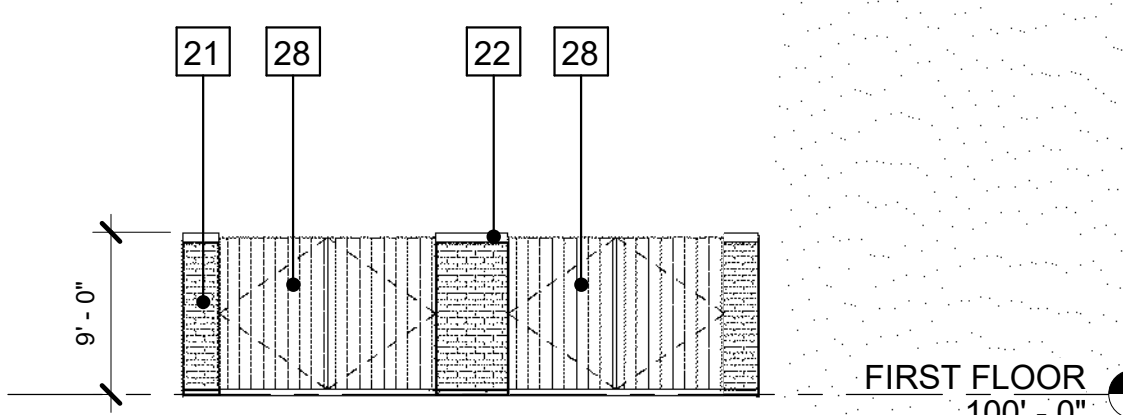
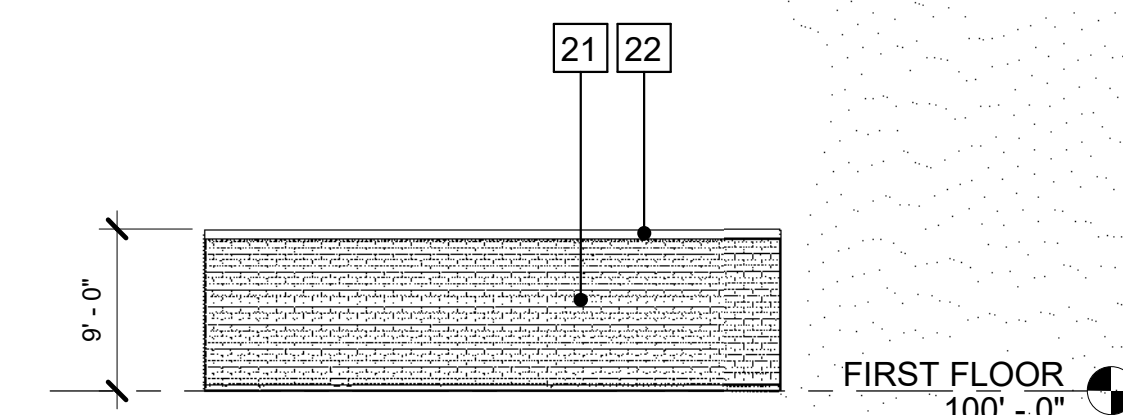
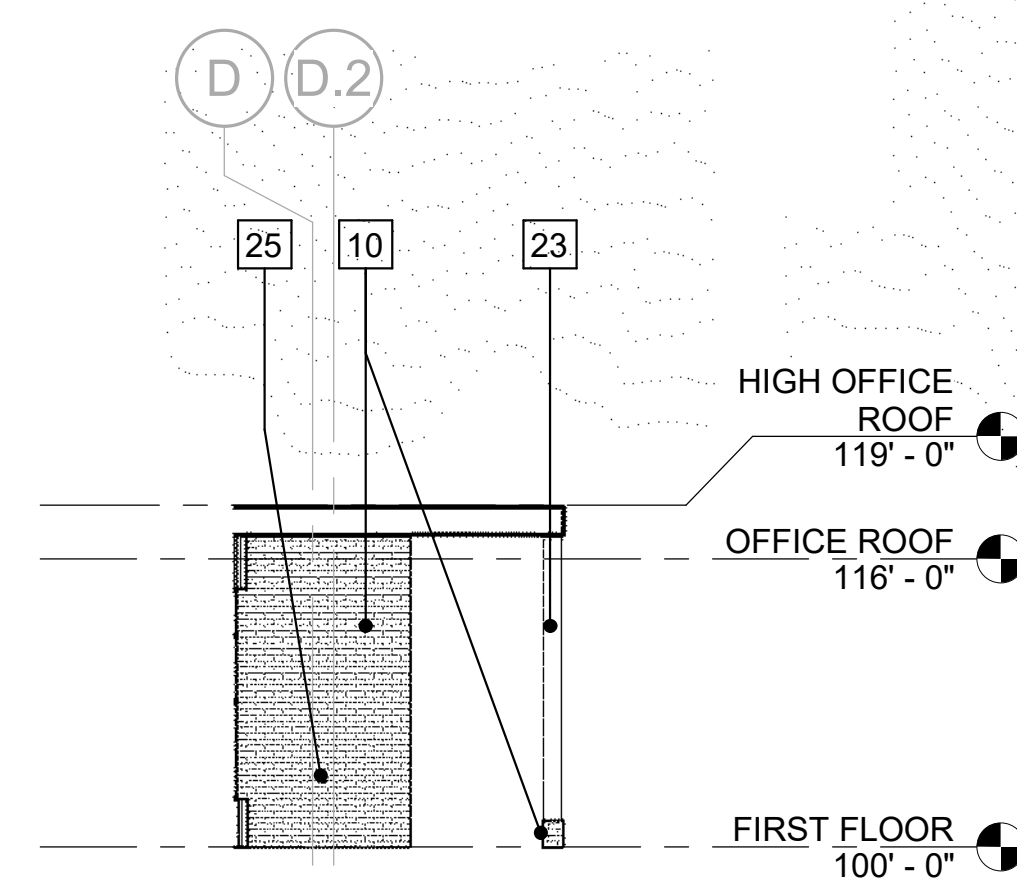
2017.40.02

Date: 07/23/2019 Issuance/Revisions: City of Fitchburg Submittal Symbol:

PRELIMINARY
NOT FOR CONSTRUCTION

Building Elevations

A201



INSULATING GLASS TYPES (IGU)

ALL IGU TYPES ARE TYPE "A"
UNLESS NOTED OTHERWISE

 IGU - A: CLEAR VISION GLASS

 IGU - B: CLEAR VISION GLASS, FULLY TEMPERED

KEYNOTES

- | | |
|----|---|
| 1 | METAL PANEL TYPE 1: ARCHITECTURAL "V"-RIB METAL PANEL (CHARCOAL GRAY) |
| 2 | METAL PANEL TYPE 2: INSULATED METAL PANEL, SMOOTH (PEWTER) |
| 3 | METAL PANEL TYPE 3: INSULATED METAL PANEL, SMOOTH (RICH BLACK) |
| 4 | METAL PANEL TYPE 4: 3" VERTICAL EXTRUDED ALUMINUM SIDING, FLOATING SYSTEM w/ 1" SPACING (LIGHT NATIONAL WALNUT) |
| 5 | METAL PANEL TYPE 5: 5" VERTICAL EXTRUDED ALUMINUM SIDING, FLOATING SYSTEM w/ 1" SPACING (LIGHT NATIONAL WALNUT) |
| 6 | METAL PANEL TYPE 6: HORIZONTAL CONCEALED FASTENER METAL PANEL (SILVERSMITH) |
| 7 | ALUMINUM STOREFRONT SYSTEM (ANODIZED BLACK) |
| 8 | NOT USED |
| 9 | STANDING SEAM INSULATED ROOF PANEL (COLOR XXXX) PROVIDED BY METAL BUILDING MANUFACTURER |
| 10 | BRICK TYPE 1: 4X4X12 BRICK VENEER (BLACK ICE) |
| 11 | PREFINISHED METAL FASCIA (COLOR TO MATCH ADJACENT BUILDING MATERIAL) |
| | <div>11A</div> <div>11B</div> <div>11C</div> <div>11D</div> |
| | BRICK TYPE 1: RICH BLACK |
| | METAL PANEL TYPE 1: CHARCOAL GRAY |
| | METAL PANEL TYPE 2: PEWTER |
| | METAL PANEL TYPE 3: RICH BLACK |
| 12 | INSULATED METAL OVERHEAD COILING DOOR |
| 13 | NOT USED |
| 14 | GUTTER PROVIDED BY METAL BUILDING MANUFACTURER, MATCH COLOR OF ADJACENT MATERIAL. |
| 15 | DOWNSPOUTS PROVIDED BY METAL BUILDING MANUFACTURER (COLOR TO MATCH COLOR OF ADJACENT MATERIAL) |
| 16 | METAL PANEL TYPE 1: ARCHITECTURAL "V"-RIB METAL PANEL SCREEN WALL (CHARCOAL GRAY) WITH GALVANIZED STEEL SUPPORTS. |
| 17 | FIRE DEPARTMENT CONNECTION |
| 18 | KNOX BOX |
| 19 | ALUMINUM STOREFRONT DOOR AND FRAME (ANODIZED BLACK) |
| 20 | HOLLOW METAL DOOR AND FRAME |
| 21 | BRICK VENEER TRASH ENCLOSURE (BRICK TYPE 1), MATCH BUILDING COURSING AND COLOR. |
| 22 | METAL COPING TO MATCH COLOR OF ADJACENT MATERIAL |
| 23 | GALVANIZED STEEL TUBE, PRIMED AND PAINTED (BLACK) |
| 24 | VERTICAL METAL TRIM (SILVERSMITH) |
| 25 | CARD READER |
| 26 | POWER ASSIST DOOR ACTUATOR |
| 27 | METAL TRIM REVEAL (RICH BLACK) |
| 28 | COMPOSITE LUMBER TRASH ENCLOSURE GATE |

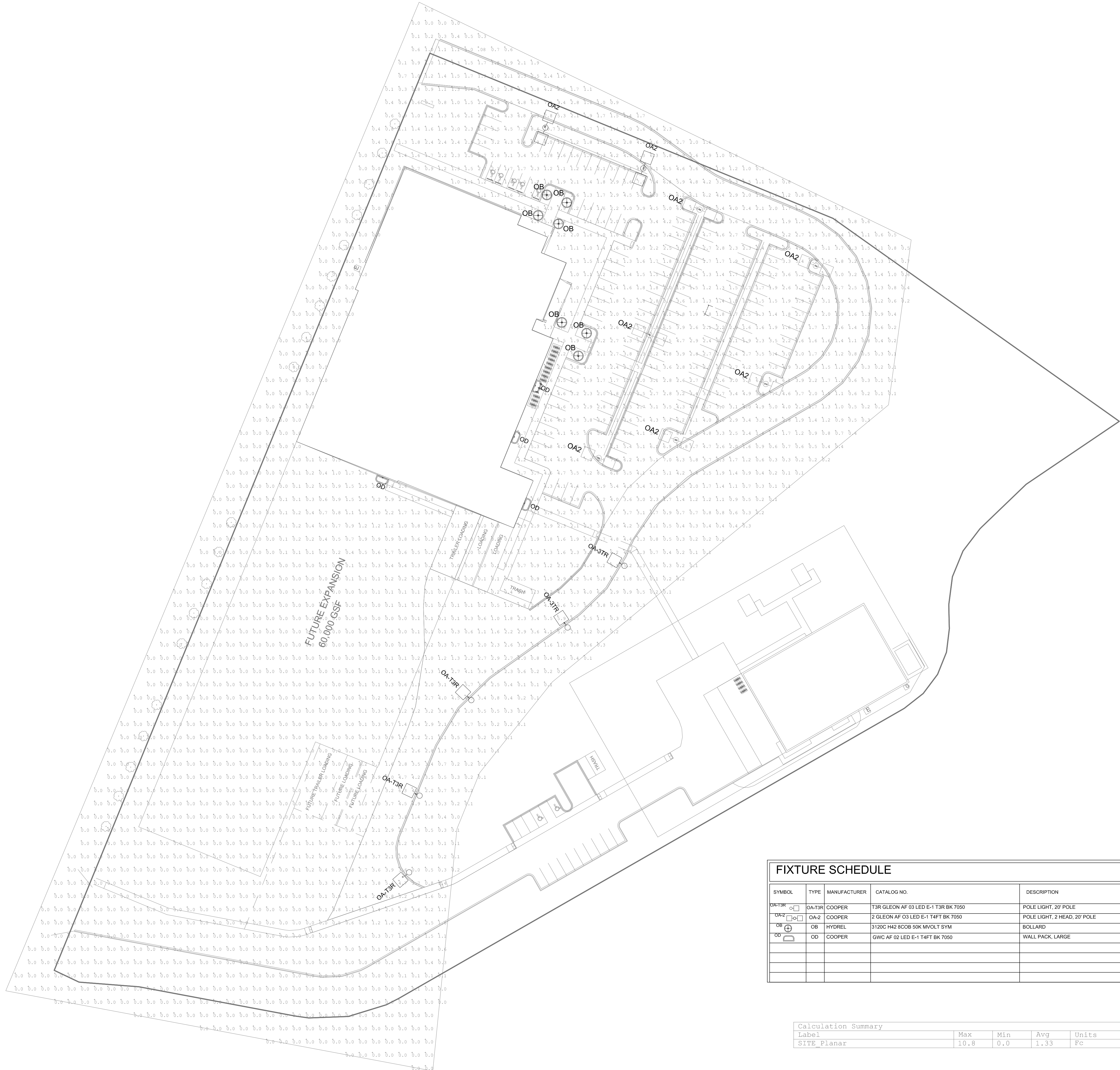
Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.02

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PRELIMINARY
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FIXTURE SCHEDULE					
SYMBOL	TYPE	MANUFACTURER	CATALOG NO.	DESCRIPTION	NOTES
OA-T3R	OA-T3R	COOPER	T3R GLEON AF 03 LED E-1 T3R BK 7050	POLE LIGHT, 20' POLE	
OA-2	OA-2	COOPER	2 GLEON AF 03 LED E-1 T4FT BK 7050	POLE LIGHT, 2 HEAD, 20' POLE	
OB	HYDREL		3120C H42 800B 50K MVOLT SYM	BOLLARD	
OD	OD	COOPER	GWC AF 02 LED E-1 T4FT BK 7050	WALL PACK, LARGE	

Calculation Summary				
Label	Max	Min	Avg	Units
SITE_Planar	10.8	0.0	1.33	Fc

Phoenix Headquarters
Phoenix, LLC

Lacy Road
Fitchburg, WI 53711

2017.40.02

Date	Issuance/Revisions	Symbol
07/23/2019	City of Fitchburg Submittal	



ARCHITECTURAL “V” RIB PANEL SPECIFICATIONS

1. PRODUCT NAME

American Architectural “V” Rib Panels for wall applications.

2. MANUFACTURER

AMERICAN BUILDINGS COMPANY

1150 State Docks Road
Eufaula, Alabama 36027
Phone: (334) 687-2032

3. PRODUCT DESCRIPTION

These wall panels provide 36" of coverage and reveal a sculptured appearance with semi-concealed fasteners. Rib depth is 1 1/4" on 12" centers.

Basic Use: A wall panel system for new or retrofit construction.

Materials: Architectural “V” Rib wall panels are available in , 26 or 24 gage 80,000 psi, G90 zinc-coated (galvanized) steel or aluminum-zinc alloy-coated (AZ50 or AZ55) steel. Pre-painted panels have American Buildings Company's SmartKote® (PVDF) or SP-COOL™ (Silicone-Polyester) Finish. Architectural “V” Rib panels are attached to the secondary framing members by self-drilling carbon steel screws, No. 12 x 1-1/4" hex washer head, cadmium or zinc plated. Architectural “V” Rib panel sidelaps are stitched with self-drilling carbon steel screws, No. 14 X 3/4" cadmium or zinc plated. Fasteners are normally color coordinated with a premium coating system that protects against corrosion and weathering.

Maximum insulation thickness allowed with these panels is 6".

4. TECHNICAL DATA

The Architectural “V” Rib panel has been tested in accordance with Air Infiltration, ASTM E283 and Water Penetration, ASTM E331. This panel has received a Class A fire rating when tested in accordance with test procedure ASTM E108.

5. INSTALLATION

Installation should be performed in accordance with American Buildings Company's manuals and building erection drawings, and should be by a qualified installer using proper tools and equipment. Systems are installed by American Buildings Company Authorized Builders.

6. AVAILABILITY

For availability, contact:

AMERICAN BUILDINGS COMPANY

7. WARRANTY

Thirty-five Year material warranties are available.

8. MAINTENANCE

Only normal routine maintenance is required over the life of the panels.

9. TECHNICAL SERVICES

For information, contact:

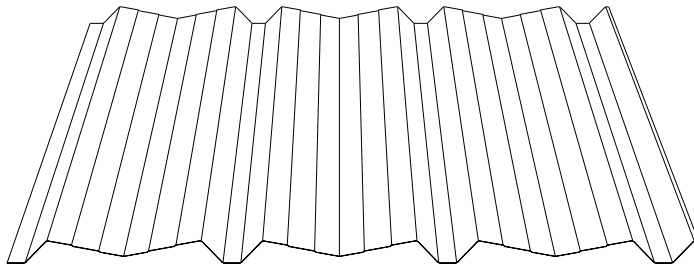
AMERICAN BUILDINGS COMPANY

10. PRODUCT NOTES

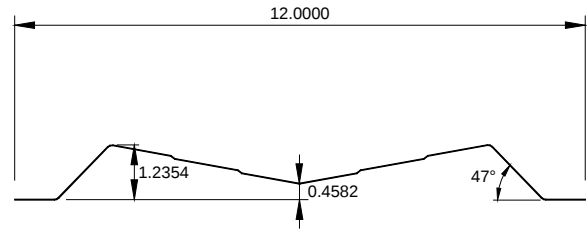
American Buildings Company reserves the right to revise all standard specifications and information. American Buildings Company regularly updates its published “Standard Specifications” on the American Buildings web site, www.americanbuildings.com, which supercede and replace any previously published standard specifications of American Buildings Company.

...continued

ARCHITECTURAL "V" RIB PANEL SPECIFICATIONS



PANEL PROFILE



PARTIAL CROSS SECTION

Engineering Properties of American Buildings Company Architectural "V" Rib AVN Panel (ASD)											
Designated Gage of Steel	Steel Yield KSI	Base Metal Thick. (In.)	Total Thick. (In.)	Panel Base Metal Weight (lbs. / ft. ²)	Top In Compression			Bottom In Compression			Fb KSI
					Ix (In. ⁴ / ft.)	Sx (In. ³ / ft.)	Ma K-IN. / ft.	Ix (In. ⁴ / ft.)	Sx (In. ³ / ft.)	Ma K-IN. / ft.	
26 Ga.	80	0.0177	0.0193	0.86	0.030	0.042	1.50	0.028	0.035	1.26	36
24 Ga.	80	0.0222	0.0238	1.09	0.040	0.054	1.93	0.037	0.047	1.70	36

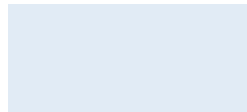
Gage of Panel	No. of Spans	Load Type	Maximum Total Uniform Load in PSF															
			Span Lengths, Ft.															
			3.00		3.50		4.00		4.50		5.00		6.00		7.00		7.50	
26 Ga.	1	POS	111	B	82	B	63	B	49	B	40	B	28	B	20	B	18	B
		NEG	-94	B	-69	B	-53	B	-42	B	-34	B	-23	B	-17	B	-15	B
	2	POS	71	C	61	C	51	B+S	41	B+S	33	B+S	23	B+S	17	B+S	15	B+S
		NEG	-64	P	-55	P	-48	P	-42	P	-38	P	-27	B+S	-20	B+S	-18	B+S
	3	POS	81	C	70	C	61	C	51	B+S	41	B+S	29	B+S	21	B+S	19	B+S
		NEG	-72	P	-62	P	-54	P	-48	P	-43	P	-34	B+S	-25	B+S	-22	B+S
	4	POS	78	C	67	C	59	C	47	B+S	39	B+S	27	B+S	20	B+S	17	B+S
		NEG	-70	P	-60	P	-52	P	-46	P	-42	P	-32	B+S	-24	B+S	-21	B+S
24 Ga.	1	POS	143	B	105	B	81	B	64	B	52	B	36	B	26	B	23	B
		NEG	-126	B	-93	B	-71	B	-56	B	-45	B	-32	B	-23	B	-20	B
	2	POS	109	C	91	B+S	70	B+S	55	B+S	45	B+S	31	B+S	23	B+S	20	B+S
		NEG	-80	P	-69	P	-60	P	-53	P	-48	P	-36	B+S	-26	B+S	-23	B+S
	3	POS	124	C	106	C	87	B+S	69	B+S	56	B+S	39	B+S	29	B+S	25	B+S
		NEG	-91	P	-78	P	-68	P	-61	P	-55	P	-44	B+S	-33	B+S	-28	B+S
	4	POS	119	C	102	C	81	B+S	65	B+S	52	B+S	37	B+S	27	B+S	23	B+S
		NEG	-87	P	-75	P	-66	P	-58	P	-52	P	-41	B+S	-30	B+S	-27	B+S

- The panels are checked for bending (B), shear (S), combined bending and shear (B+S), deflection (D), web crippling (C), and panel pullover (P).
The controlling check is noted in the table. Deflection is limited to span/60, and includes the permitted wind load reduction factor of 0.7 times the "component and cladding" loads as noted in footnote f of IBC Table 1604.3.
- Section Properties are calculated in accordance with the 2012 *North American Specification for the Design of Cold-Formed Steel Structural Members*.
- Minimum yield strength of 29, 26 and 24 gage steel is 80,000 psi. Minimum yield strength of 22 gage steel is 50,000 psi.
- Steel panels are either aluminum-zinc alloy or G-90 coated. The base metal thickness is used in determining section properties.
- Positive load (POS) is applied inward toward the panel supports, and is applied to the outer surface of the full panel cross-section.
Negative load (NEG) is in the opposite direction.

Enduracote® Colors

Siliconized Modified Polyester (SMP) paint system

METAL PANEL TYPE 1



Brite White 824
SR: .60 IE: .85 SRI: 71



White 899
SR: .54 IE: .89 SRI: 64



Ivory 883
SR: .62 IE: .89 SRI: 75



Light Stone 887
SR: .51 IE: .90 SRI: 60



Tan 855
SR: .38 IE: .90 SRI: 42



Hickory Moss 870
SR: .36 IE: .89 SRI: 39



Cocoa Brown 856
SR: .35 IE: .85 SRI: 36



Dark Brown 859
SR: .30 IE: .86 SRI: 30



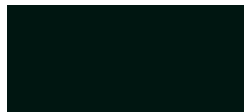
Antique Bronze 854
SR: .29 IE: .83 SRI: 27



Patina Green 893
SR: .38 IE: .90 SRI: 42



Evergreen 875
SR: .27 IE: .86 SRI: 26



Hartford Green 821
SR: .29 IE: .85 SRI: 28



Caribbean Blue 881
SR: .27 IE: .90 SRI: 28



Gallery Blue 826
SR: .29 IE: .86 SRI: 29



Brick Red 898
SR: .31 IE: .90 SRI: 33



Brite Red 845
SR: .32 IE: .86 SRI: 33



Classic Burgundy 853
SR: .26 IE: .86 SRI: 25



Ash Gray 848
SR: .38 IE: .87 SRI: 39



Light Gray 889
SR: .31 IE: .87 SRI: 32



Charcoal Gray 851
SR: .35 IE: .86 SRI: 37



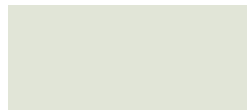
True Black 882
SR: .30 IE: .85 SRI: 30



Copper Penny 939 **
SR: .48 IE: .83 SRI: 53

Polydure® Colors

Polyester paint system



White 169



Tan 192



Light Stone 181



Ash Gray 153



Hickory Moss 179



Cocoa Brown 172



Brick Red 187



Charcoal 157



Evergreen 176

valspar® PVDF

- 30-year limited paint warranty for film integrity
- 30-year limited paint warranty for fade & chalk
- Consult Fabral for finish warranty detail on Mica Colors
- Consult Fabral for substrate warranty on aluminum and Galvalume

Note: Due to Mica colors, including copper penny, being a metallic finish, the 30-year warranty for fading does not apply as outlined in the PVDF warranty sheet.

ENDURACOTE®

PREMIUM DEFENSE
Against the Elements

- Lifetime film integrity warranty for walls & roofs
- 30-year warranty against fade & chalk for walls & roofs
- 10-year edge rust warranty against acid rain (galvanized only)

Polydure Warranty

- 10-year limited paint warranty for film integrity
- 3-year limited sidewall panel paint warranty for fade and chalk (5-year limited warranty for white)

SR = Solar Reflectivity IE = Initial Emissivity SRI = Solar Reflective Index

Optimo

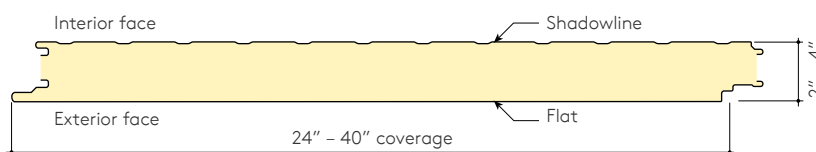
Optimo insulated metal panel wall systems deliver a clean, smooth and aesthetically appealing modern solution. Incorporating superior airtightness as well as high R-value is a critical step to achieving an energy efficient LEED certified and net-zero energy building.

Kingspan's Optimo gives you that, and more. Optimo is available in either a non-embossed or embossed texture, creating a modern and sleek building envelope. Optimo's single component design can reduce on-site installation time by up to 50% compared to traditional site assembled systems.

Optimo is suitable for high volume, large scale, new and retrofit applications across the commercial and industrial sectors.



Profile:	Exterior: Flat Interior: Shadowline or flat
Embossing:	Exterior: Stucco or non-embossed Interior: Stucco or non-embossed
Gauge:	Exterior: 22 ga Interior: 26, 24, 22 ga
Width:	24", 30", 36", 40"
Thickness:	2", 2.5", 3", 4", 5", 6"
Length:	Embossed: 8' – 32' Non-embossed: 8' – 20'
Reveal option:	Vertical: 1/8" Horizontal: 1/8" or 3/8"
Orientation:	Vertical or horizontal
Post fabrication:	Trimless ends, folded corners
R-value:	≈ 7.2 per inch per ASTM C518 @ 75°F ≈ 8.25 per inch per ASTM C518 @ 35°F



Premium Colors

Mica Fluropon Classic® II PVDF Colors

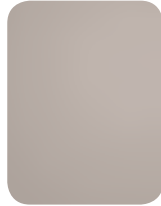
The coating system consists of a special primer and a durable color coat containing mica pearlescent flakes. Due to the orientation of aluminum/pearlescent flake pigments during application, the appearance will be directional in nature on metallic coatings.



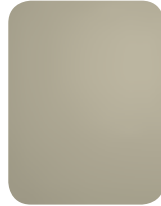
Silversmith
SR:0.53 E:0.79 SRI:59



Zinc
SR:0.55 E:0.79 SRI:62



Champagne Pearl
SR:0.48 E:0.81 SRI:53



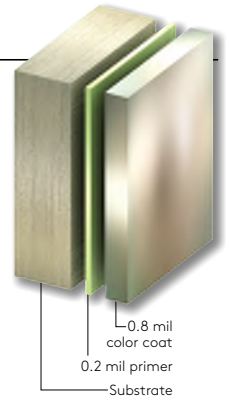
Champagne Bronze
SR:0.44 E:0.78 SRI:46



Weathered Zinc
SR:0.33 E:0.84 SRI:33



Copper Penny
SR:0.48 E:0.84 SRI:54

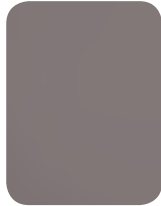


Metallic Fluropon Classic® PVDF Colors

Metallic coatings employ metal flakes in the color coat. The system uses a special primer, a 70% Kynar 500® or Hylar 5000® resin based Fluropon color coat and a clear topcoat, to provide outstanding color and gloss retention, increased abrasion resistance and added protection against atmospheric contaminants.



Bright Silver
SR:0.57 E:0.81 SRI:65



Rosalind Rose
SR:0.34 E:0.88 SRI:36



Champagne Gold
SR:0.51 E:0.85 SRI:58



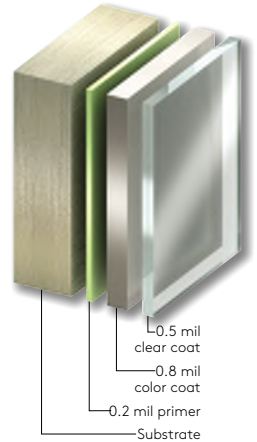
Pewter
SR:0.31 E:0.86 SRI:31



Medium Bronze
SR:0.19 E:0.85 SRI:15



Dark Bronze
SR:0.12 E:0.83 SRI:5

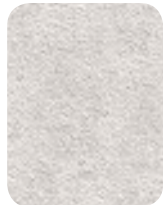


Granitstone®

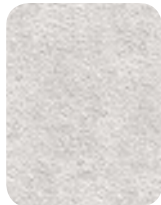
Granitstone® Panel Colors

Granitstone® coatings have an oven-baked epoxy primer and a factory applied finish of an air-dried 100% acrylic bonder with natural silica aggregate, minimum 12 mils dry film thickness, finished to resemble sprayed stucco.

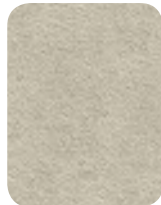
Granitstone®



Imperial White



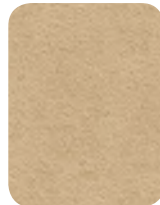
Bone White



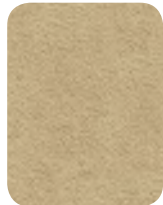
Sandstone



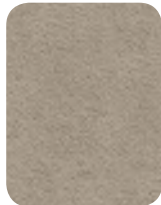
Parchment



Rawhide



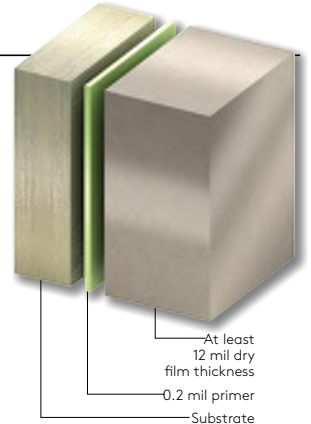
Surrey Beige



Taupestone



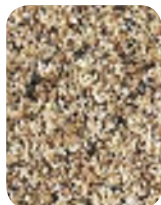
Dove Gray



Granitstone® Quartz



Teton Gray



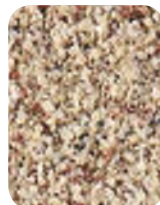
Foxwood Beige



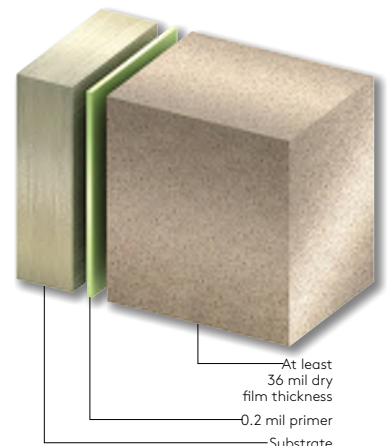
Dakota Bronze



Cascade Sand

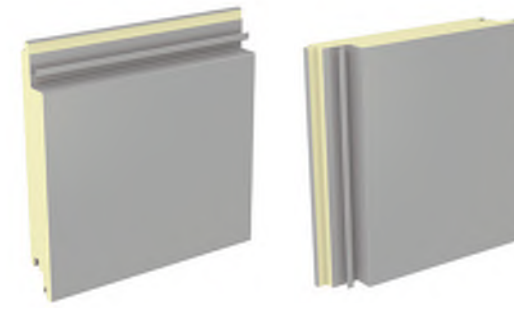


Monterey Gold



FIVE FORMS UNLIMITED COMBINATIONS

First, select your wall thickness – 2", 2.5", or 3" – based upon your building's thermal requirements. Then, freely mix and match five different panel forms to create imaginative building envelopes with varying articulations, rhythms, and textures. Plus, Formawall panels can be curved and installed both horizontally and vertically.



FLAT - FWDS

If you're after flat, the Formawall FWDS panel is where it's at. In fact, CENTRIA boasts the highest standard for panel flatness in the industry.

Lengths: Flat Embossed up to 37'

Flat Smooth up to 16'

Widths from 10" - 40"

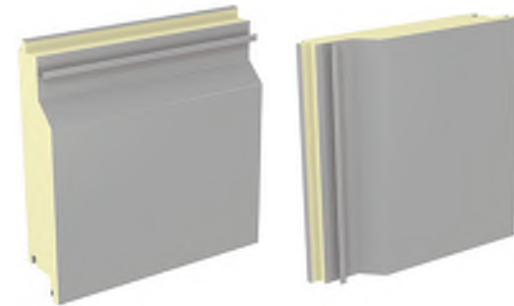


SEGMENTED - FWGX

In a single panel, create the illusion of multiple smaller panels with FWGX by incorporating half-inch wide reveals across the width of a panel.

Lengths up to 20'

Widths from 10" - 40"

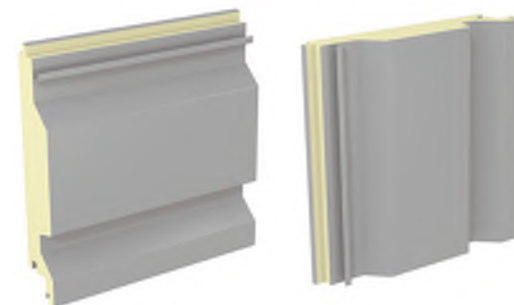


PROFILED - DS58

A flat panel with a single steep slope located at the male panel joint, strategically located Formawall DS58 panels produce an elegant visual break in an otherwise monolithic wall expanse.

Lengths up to 37'

Widths from 12" - 40"

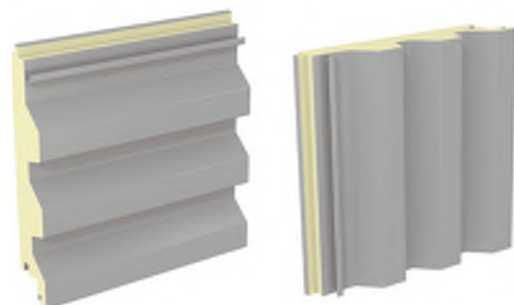


PROFILED - DS59

Featuring two steep slopes located at both joints, Formawall DS59 panels produce interesting rhythms when combined with other panels.

Lengths up to 37'

12" Width



PROFILED - DS60

Fully profiled with three steep slopes, Formawall DS60 panels produce the ultimate textured wall.

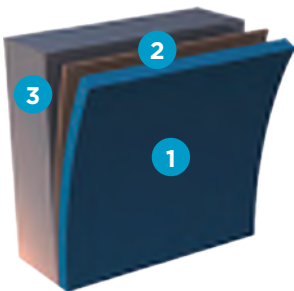
Lengths up to 37'

12" Width

PRISMATIC™ SOLID COLOR SERIES

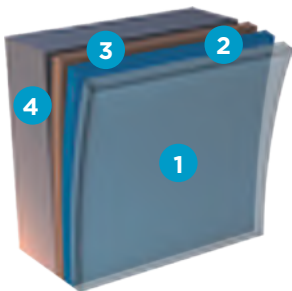
COATING SYSTEMS

Fluorofinish® Coating System is a durable, solid-color finish for architectural applications. The graffiti-resistant, PVDF coating contains 70% Kynar 500®/Hylar 5000® resins.



- 1. 0.8 mil [20 micron] nominal PVDF Color Coat*
- 2. 0.2 mil [5.1 micron] nominal Primer
- 3. Metal Substrate

Duragard® Coating Systems offer a high-build architectural finish that provides reliable performance in color retention and fade resistance. Added protection is obtained with our **Duragard® Plus** coating that includes an additional 0.8 mil PVDF clear top coat.



Duragard Plus

- 1. 0.8 mil [20 micron] nominal PVDF Clear Coat*
- 2. 0.8 mil [20 micron] nominal PVDF Color Coat*
- 3. 0.8 mil [20 micron] nominal Primer
- 4. Metal Substrate

Duragard

0.8 mil [20 micron] nominal PVDF Color Coat*
0.8 mil [20 micron] nominal Primer

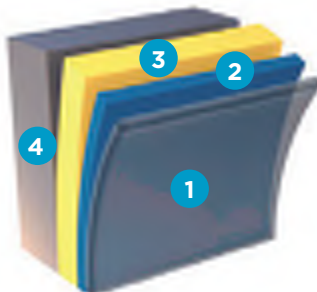
Versacor® ELITE Coating Systems are premium, high-build, multi-layer metal coating systems that provide the highest levels of protection in the harshest climatic or environmental conditions.

Versacor ELITE PF features a solid color PVDF top coat. **Versacor Elite MX** has a PVDF pearlescent effect top coat. Both coatings are excellent for corrosive architectural applications and abrasion resistance.



- 1. 0.8 mil [20 micron] nominal PVDF Top Coat
- 2. 2.0 mil [50.8 micron] nominal Versacor Elite Barrier Coat Primer
- 3. Metal Substrate — G-90 galvanized steel, aluminum

Versacor ELITE AM® combines the superior corrosion resistance of the Versacor Elite barrier coat with a PVDF metallic color coat and the extra protection of another clear coat.



- 1. 0.5 mil [12.7 micron] nominal Clear Coat
- 2. 0.8 mil [20 micron] nominal PVDF Metallic Effect Color Coat
- 3. 2.0 mil [50.8 micron] nominal Versacor Elite Barrier Coat
- 4. Metal Substrate — G-90 galvanized steel, aluminum

What is Reverse Side Coating Protection?

As an added layer of protection for exterior walls, 2-mil-thick [50.8 micron] Versacor barrier coat with a 0.5 mil [12.7 micron] polyester topcoat (5913 Arctic Ice) is applied to the interior liner of the metal substrate to protect against corrosion.

PRISMATIC SERIES COLORS

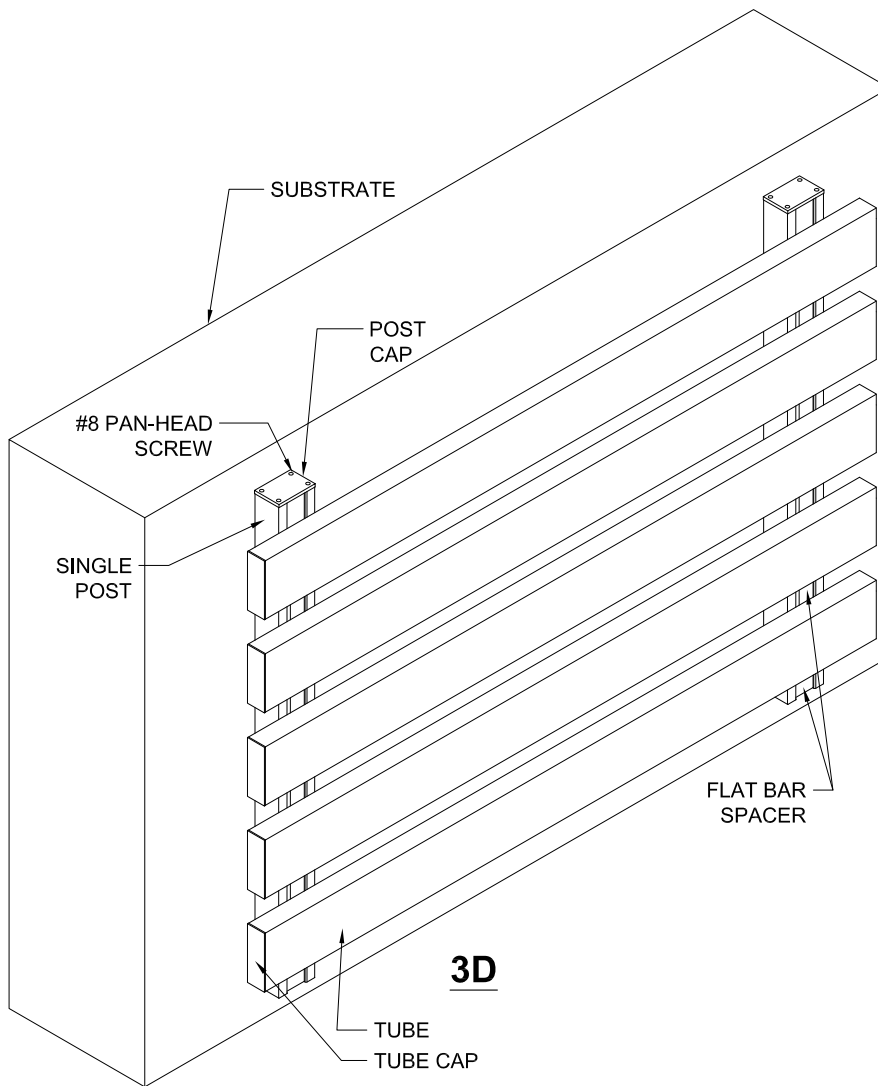
Available in a wide range of colors and Fluorofinish, Duragard and Versacor Elite Coating Systems.

179 Regal White	996 Crushed Ice	993 Off-White	995 Cambridge White	310 Bone White
994 Colonial White	5012 Marble	992 Lee Ivory	133 Sandstone	1760 Limestone
142 Surrey Beige	9910 Light Seawolf	9911 Pebble	997 Prism Yellow	5444 Aged Copper
977 Moss	9933 Cypress Olive	978 Hunter Green	183 Evergreen	9932 Hartford Green
177 Slate Blue	9926 Arabian Blue	974 Teal Blue	9928 Cherokee Blue	200 Deep Blue Sea
9930 Night Horizon	9923 Granite	971 Chromium Gray	9917 Light Gray	9918 Dove Gray
9919 Fashion Gray	181 Slate Gray	9922 Steel Gray	9921 Charcoal Gray	9914 Midnight Bronze
154 Dark Bronze	9916 Rich Black	9912 Sage Brown	1243 Mocha	9937 Mauve
156 Colonial Red	999 Aspen Gold			

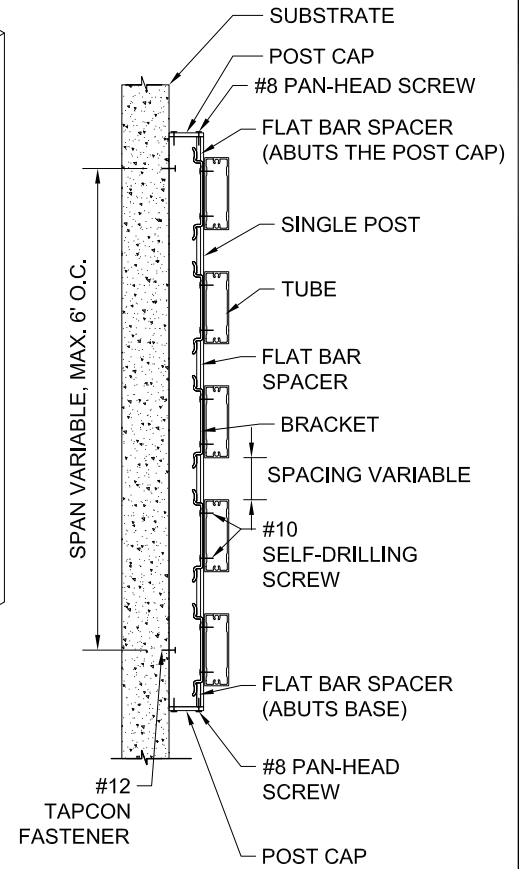
Please note all finish thicknesses shown are nominal.

*Polyvinylidene Fluoride (PVDF) coat contains 70% Kynar 500 or Hylar 5000 resin

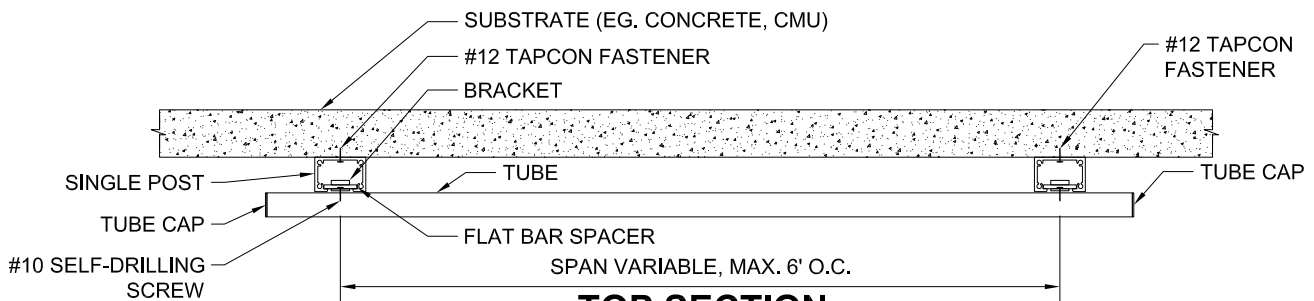
Kynar 500 is a registered trademark of Arkema Inc.
Hylar 5000 is a registered trademark of Solvay Solvents, Inc.



3D



SIDE SECTION



TOP SECTION

These drawings are published as an information guide only. These CAD drawings are intended as templates to assist the designer, they do not contain the full detail required for construction and must be read in conjunction with the installation instructions on www.longboardproducts.com. You should obtain architectural, engineering or other technical advice to assess the suitability of these drawings to the requirements of your particular project.

Mayne Coatings Corp. and Longboard products accepts no liability in respect to the use of these drawings.

For complete installation instructions refer to the appropriate documentation at www.longboardsuppliers.com/installation

DRAWING #:

075

SCALE:

1:8

DRAWN BY:

AS

REVISED BY:

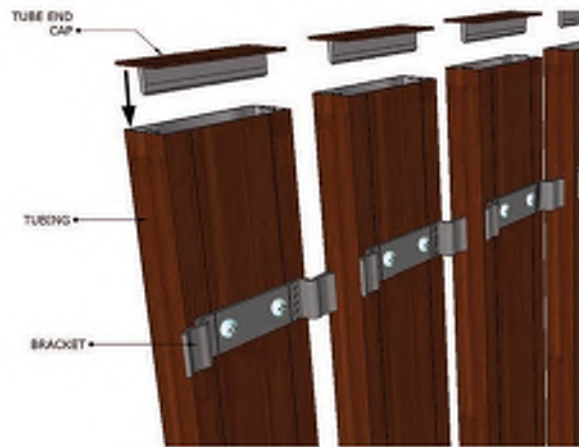
DRAWING TITLE:

**FLOATING SYSTEM
(ON SUBSTRATE)**

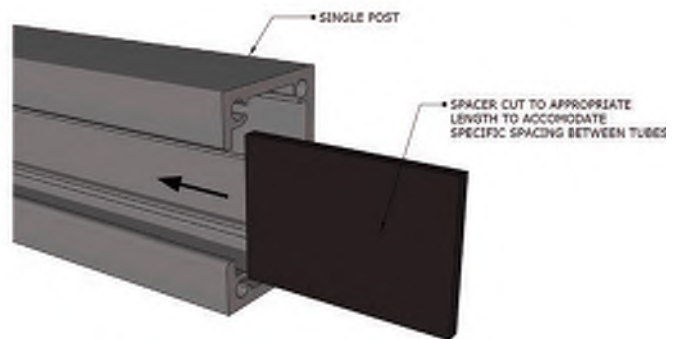
LONGBOARD®
INSPIRING FACADES

VERTICAL INSTALLATION

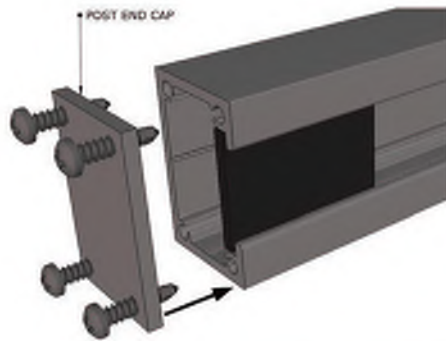
VERTICAL SIDING ORIENTATION



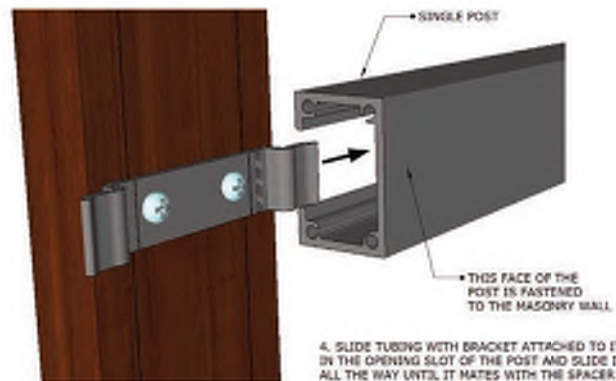
1. ATTACH BRACKETS VIA SELF DRILLING FASTENERS AT THE WIDE FACE OF THE TUBING. CLOSE TUBING HOLES WITH TUBE END CAPS



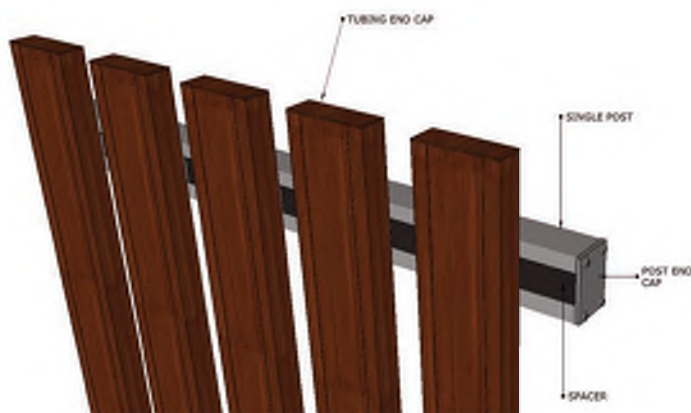
2. FIRST SPACER SLIDES IN FROM THE END OPENING OF THE SINGLE POST ALL THE WAY TO THE OTHER END OF THE POST, SEE DRAWING 3. (SINGLE POST IS ASSUMED TO BE ALREADY FASTENED TO THE WALL/MASONRY)



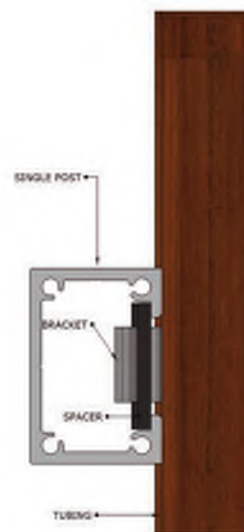
3. SPACER SLID AT THE OTHER END OF THE TUBING POST END CAP FASTENED TO THE POST AND PREVENTS THE SPACER FROM ESCAPING OUT



4. SLIDE TUBING WITH BRACKET ATTACHED TO IT IN THE OPENING SLOT OF THE POST AND SLIDE IT ALL THE WAY UNTIL IT MATES WITH THE SPACER, SHOWN IN DRAWING 3. REPEAT STEP 2 (DRAWING 2) AND STEP 4 (DRAWING 4) UNTIL ALL TUBINGS ARE SLID IN. THEN SECURE THE OTHER OPENING OF THE POST WITH POST END CAP (SEE DRAWING 3)



FINISHED - PERSPECTIVE VIEW



SIDE VIEW CUT





WOODGRAIN OPTIONS

Our woodgrain options are divided into four categories based on the consistency of the wood grain pattern.

MODERATE



NATIONAL
MAHOGANY



DARK CHERRY



LIGHT CHERRY



WESTERN CEDAR



DARK NATIONAL
WALNUT



LIGHT NATIONAL
WALNUT

CONSIDERABLE

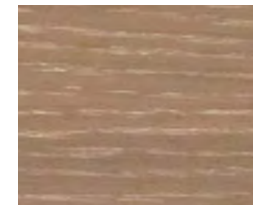


TABLE WALNUT

INTERIOR



WEATHERED GREY



SAND DRIFT

FABRAL® SILHOUETTE HCF SERIES™

BRIEF PRODUCT SPECIFICATION



College Park Elementary School, Virginia Beach VA, USA

"For the design of this elementary school project, we needed to visually break up the façade. The HCF Series gave us more color options and the flexibility to integrate color in the design."

Clay Dills, Dills Architects

FABRAL CORE™

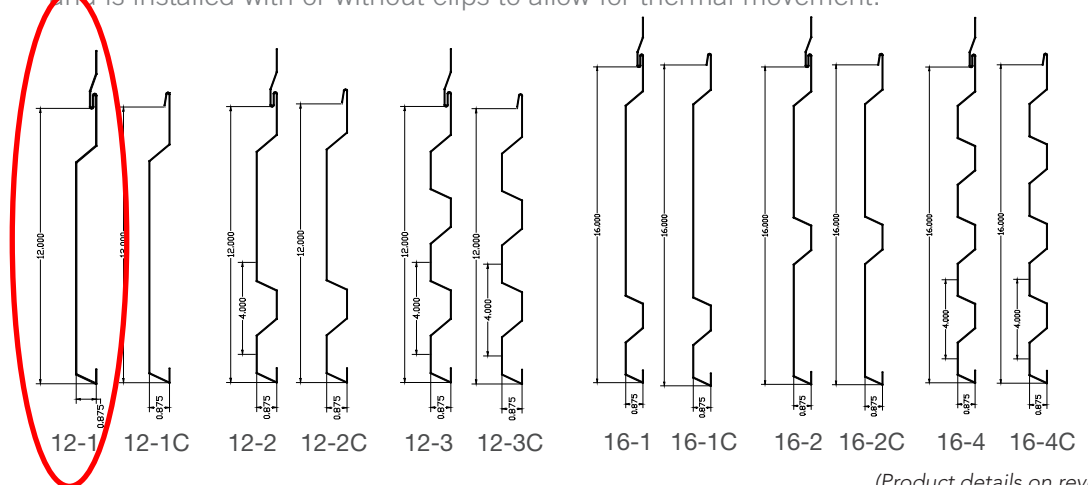
**You challenge us.
And we like it.**

Your vision for a building and what you want to achieve makes us think harder. It'd be easy to say - That won't work. Instead we go with - Let's see what we can do.

Fabral.com
800.884.4484

CONCEALED FASTENER WALL PANEL SILHOUETTE HCF SERIES™

Fabral® Silhouette HCF Series™, a horizontal concealed fastener system, provides a range of profiles and configurations for architectural, commercial and industrial applications. With options of one to four ribs and multiple profiles, architects and designers have at their disposal the ultimate in design versatility in a strong, durable wall panel. An interlocking sidelap feature hides fasteners and is installed with or without clips to allow for thermal movement.



(Product details on reverse)

FABRAL®

FABRAL® SILHOUETTE HCF SERIES™

BRIEF PRODUCT SPECIFICATION

MANUFACTURER DESCRIPTION

- Fabral®, 308 Alabama Blvd, Jackson, GA 30233
- Telephone: 800.884.4484
- Email: sales@fabral.com
- Website: Fabral.com

PRODUCT DESCRIPTION

Acceptable Product:	Fabral® HCF Horizontal Wall Panel		
Air Infiltration:	ASTM E283	0.01 cfm/ft ² @ 20 psf	
Water Penetration:	ASTM E331	No water leakage @ 20 psf	
Structural Performance:	ASTM E330	24 ga steel - 2' spacing @ 54.55 psf	
		4' spacing @ 33.33 psf	
		.032" alum. - 2' spacing @ 48.48 psf	
		4' spacing @ 24.24 psf	

Class 4 impact: UL2218

Class A fire: UL790

WIND UPLIFT LOAD TABLE (PSF)

Substrate	Spans	2'-0"	2'-6"	3'-0"	3'-6"	4'-0"
24 ga. Steel	3	54	48	43	38	33
22 ga. Steel	3	60	53	48	42	37
.032" alum.	3	48	42	36	30	24

DESIGN INFORMATION

- Purlin Spacing: Maximum – 4' on-center
- Field Curving: Minimum radius 200'
- Panel Length: Maximum - 30'
- Panel Width: 12", 16"

PRODUCT INSTALLATION

Install panels plumb, level and straight so it is watertight and without waves or other distortions, allowing for thermal movement considerations. Apply sealant tape or caulking as necessary at flashing and panel joints to prevent water penetration.

PRODUCT MAINTENANCE AND WARRANTY

Fabral® provides a 30 year paint-finish warranty for cracking, chipping, peeling, fading and chalking – providing confidence in a long-lasting application.

To ensure the durability of your Silhouette HCF panels, use proper care. Remove filings, grease, stains, marks or excess sealants from roof panels system to prevent staining. Store panels and flashings in a safe, dry environment.

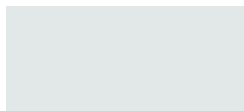
RECENT PROJECTS

Segment	Project Name	Location	Quantity	Architect/Distributor
Healthcare	Hand and Microsurgery Associates	Columbus, OH		Trinity Healthcare Group
Office Building	Landmark Office Building	Wake Forest, NC		N.B. Handy Co
Education	Georgia Tech CNES Lab	Austell, GA	95 sq	Abrams Architectural Products, Inc.
Education	Lebanon Middle School	Lebanon, NH	161 sq	Palace Construction, Inc.

Core Colors

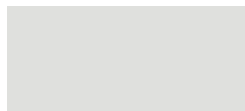
PVDF - 70% polyvinylidene flouride resin paint system

METAL PANEL TYPE 6



Regal White^Δ

SR: .68 IE: .86 SRI: 82



Bone White^Δ

SR: .72 IE: .84 SRI: 87



Almond^Δ

SR: .63 IE: .86 SRI: 75



Sandstone^Δ

SR: .54 IE: .86 SRI: 63



Surrey Beige^Δ

SR: .40 IE: .86 SRI: 43



Sierra Tan

SR: .35 IE: .86 SRI: 37



Medium Bronze

SR: .30 IE: .87 SRI: 31



Mansard Brown

SR: .29 IE: .86 SRI: 29



Dark Bronze

SR: .26 IE: .84 SRI: 24



Extra Dark Bronze*

SR: .05 IE: .89 SRI: N/A



Patina Green

SR: .29 IE: .87 SRI: 29



Hemlock Green

SR: .28 IE: .87 SRI: 28



Classic Green

SR: .26 IE: .84 SRI: 24



Hartford Green*

SR: .10 IE: .82 SRI: 2



Teal

SR: .28 IE: .87 SRI: 28



Slate Blue

SR: .26 IE: .85 SRI: 24



Regal Blue

SR: .28 IE: .86 SRI: 27



Terra Cotta

SR: .34 IE: .87 SRI: 36



Banner Red

SR: .42 IE: .84 SRI: 45



Colonial Red

SR: .34 IE: .86 SRI: 35



Brandywine

SR: .26 IE: .85 SRI: 24



Dove Grey

SR: .49 IE: .87 SRI: 56



Slate Gray^Δ

SR: .37 IE: .86 SRI: 39



Charcoal

SR: .32 IE: .85 SRI: 32



Matte Black

SR: .27 IE: .86 SRI: 26

Mica Colors™

PVDF - 70% polyvinylidene flouride resin paint system



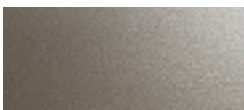
Bright Silver^ΔS66

SR: .60 IE: .77 SRI: 68



Silversmith^ΔS15

SR: .53 IE: .78 SRI: 59



Champagne S20

SR: .37 IE: .83 SRI: 38



Pewter S11

SR: .36 IE: .85 SRI: 38



Bright Copper^ΔS25

SR: .49 IE: .85 SRI: 55

26 Gauge Low Gloss

PVDF - 70% polyvinylidene flouride resin paint system



Sierra Tan

SR: .46 IE: .87 SRI: 52



Slate Gray

SR: .37 IE: .86 SRI: 39



Medium Bronze

SR: .30 IE: .86 SRI: 30



Dark Bronze

SR: .28 IE: .86 SRI: 27



Colonial Red

SR: .31 IE: .86 SRI: 31



Classic Green

SR: .31 IE: .87 SRI: 32



Hartford Green

SR: .08 IE: .89 SRI: 3



Slate Blue

SR: .30 IE: .87 SRI: 31



Matte Black

SR: .26 IE: .86 SRI: 25

Acrylic Coated Galvalume also available (not pictured)

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 3000K, 5000K and 6000K CCT.

Electrical

LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during mounting. When mounting two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the

arm mounting requirement table. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



GLEON GALLEON LED

1-10 Light Squares

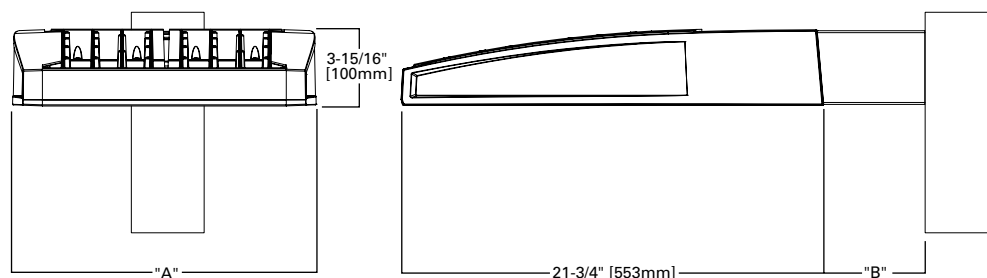
Solid State LED

AREA/SITE LUMINAIRE



LumenSafe Technology
[CLICK HERE](#)

DIMENSIONS



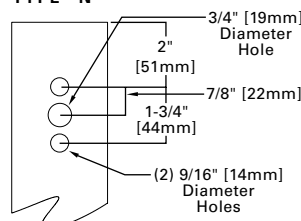
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	13" (330mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

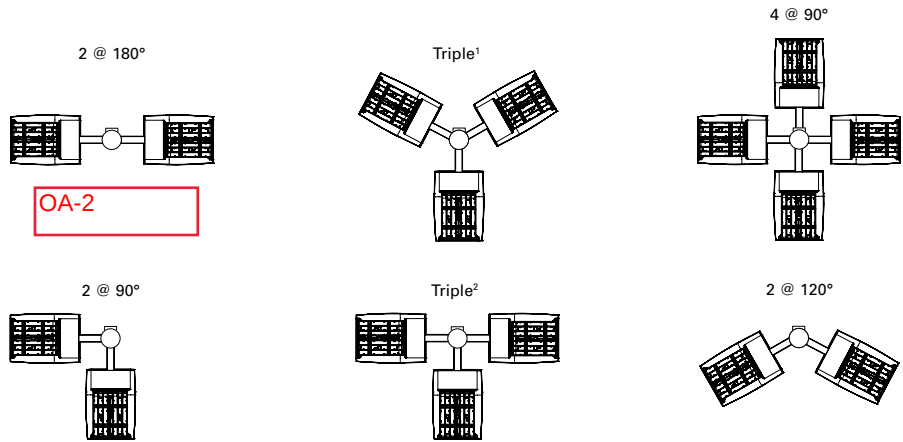
3G Vibration Rated
DesignLights Consortium® Qualified*
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

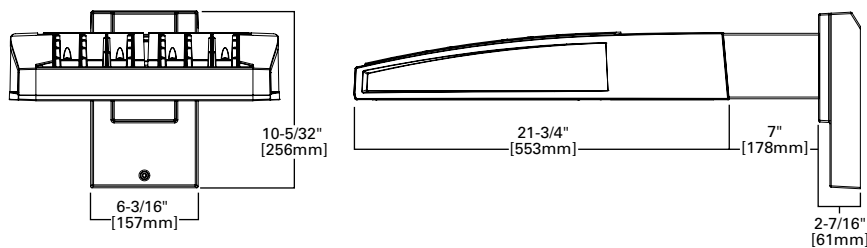
ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GLEON-AF-01	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-02	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-03	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-04	7" Arm (Standard)	7" Arm (Standard)
GLEON-AF-05	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-06	10" Extended Arm (Required)	7" Arm (Standard)
GLEON-AF-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GLEON-AF-09	16" Extended Arm (Required)	16" Extended Arm (Required)
GLEON-AF-10	16" Extended Arm (Required)	16" Extended Arm (Required)

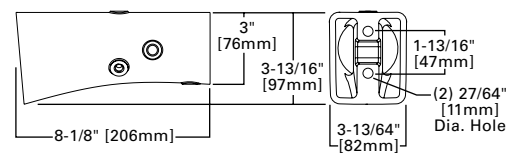


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

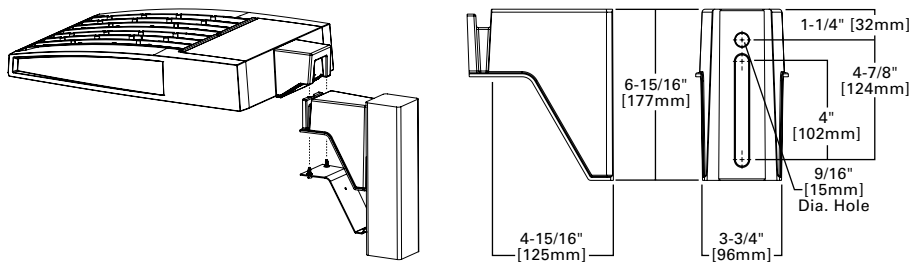
STANDARD WALL MOUNT



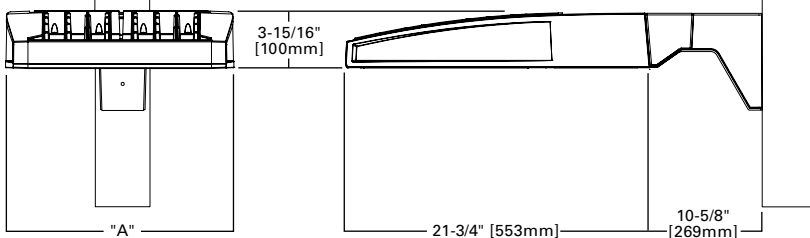
MAST ARM MOUNT



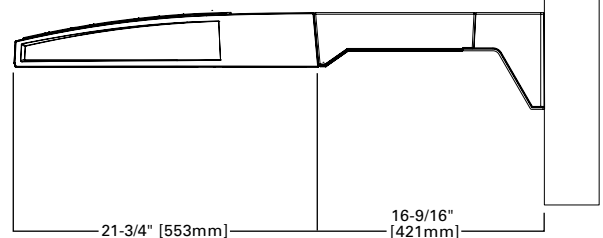
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

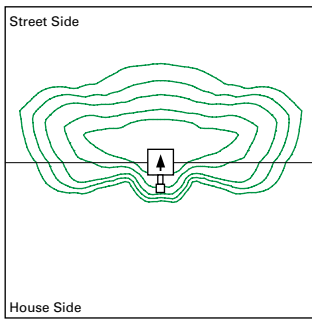


QUICK MOUNT ARM DATA

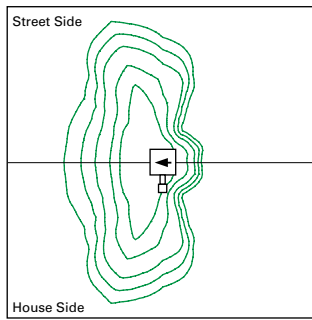
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

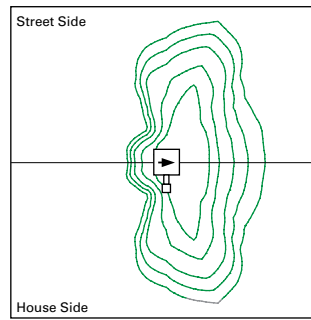
OPTIC ORIENTATION



Standard



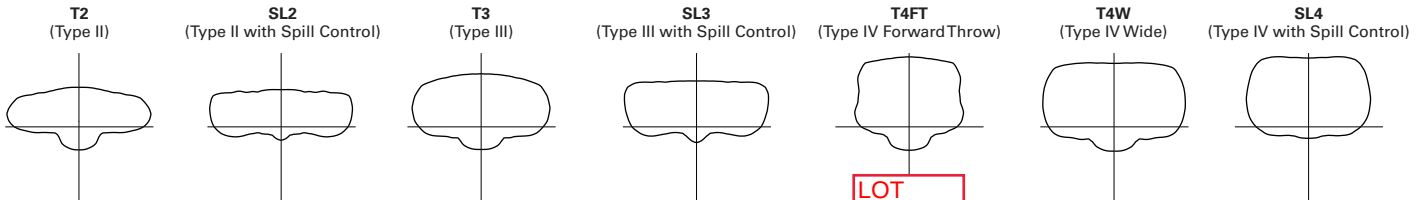
Optics Rotated Left @ 90° [L90]



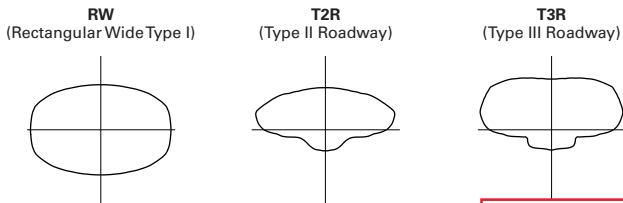
Optics Rotated Right @ 90° [R90]

OPTICAL DISTRIBUTIONS

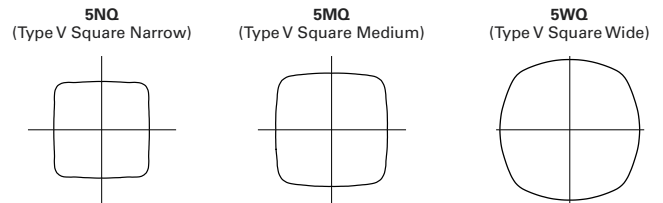
Asymmetric Area Distributions



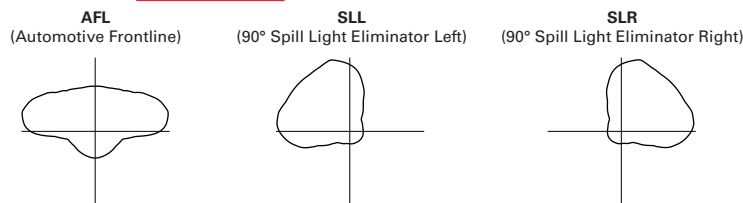
Asymmetric Roadway Distributions



Symmetric Distributions



Specialized Distributions

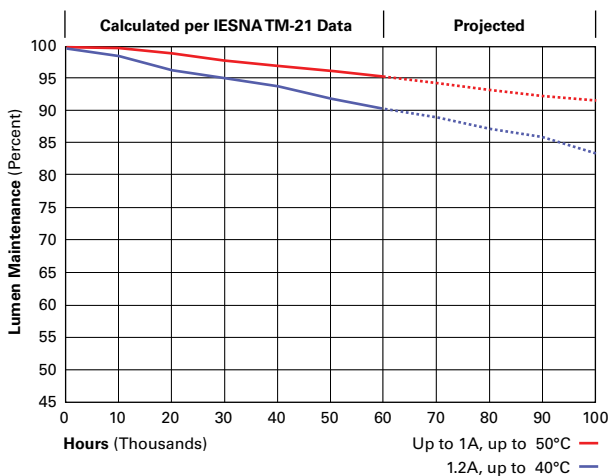


LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97



NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,863	13,412	20,011	26,441	32,761	39,205	46,364	52,534	58,601	64,880
	3000K Lumens	6,489	12,681	18,919	25,000	30,974	37,066	43,836	49,668	55,405	61,341
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	7,285	14,238	21,246	28,072	34,780	41,621	49,221	55,770	62,212	68,878
	3000K Lumens	6,888	13,462	20,087	26,541	32,884	39,351	46,537	52,729	58,819	65,122
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,995	13,670	20,397	26,951	33,391	39,959	47,256	53,544	59,728	66,130
	3000K Lumens	6,613	12,924	19,284	25,480	31,570	37,780	44,679	50,624	56,471	62,524
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	7,150	13,973	20,850	27,549	34,134	40,846	48,307	54,734	61,056	67,598
	3000K Lumens	6,761	13,212	19,713	26,046	32,272	38,619	45,673	51,750	57,726	63,911
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	7,036	13,748	20,515	27,107	33,586	40,191	47,530	53,854	60,074	66,512
	3000K Lumens	6,652	12,999	19,397	25,629	31,754	37,999	44,938	50,917	56,797	62,885
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,945	13,571	20,249	26,756	33,152	39,671	46,917	53,160	59,298	65,653
	3000K Lumens	6,566	12,831	19,146	25,297	31,344	37,508	44,358	50,260	56,064	62,072
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,851	13,388	19,977	26,396	32,704	39,137	46,283	52,444	58,498	64,768
	3000K Lumens	6,477	12,658	18,888	24,957	30,920	37,003	43,759	49,584	55,308	61,235
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,994	13,668	20,394	26,947	33,388	39,953	47,249	53,537	59,720	66,119
	3000K Lumens	6,612	12,922	19,281	25,477	31,567	37,774	44,673	50,618	56,463	62,514
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,645	12,986	19,378	25,603	31,723	37,962	44,893	50,868	56,743	62,824
	3000K Lumens	6,282	12,279	18,321	24,207	29,993	35,892	42,445	48,094	53,648	59,398
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,214	14,097	21,036	27,795	34,437	41,210	48,734	55,220	61,597	68,199
	3000K Lumens	6,820	13,329	19,888	26,279	32,558	38,962	46,077	52,208	58,237	64,479
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	7,347	14,356	21,423	28,306	35,071	41,969	49,632	56,237	62,730	69,454
	3000K Lumens	6,947	13,573	20,254	26,762	33,158	39,680	46,925	53,170	59,309	65,667
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	7,366	14,396	21,480	28,381	35,164	42,080	49,765	56,386	62,898	69,639
	3000K Lumens	6,964	13,610	20,308	26,833	33,247	39,786	47,050	53,311	59,468	65,842
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,147	12,010	17,921	23,679	29,339	35,109	41,521	47,046	52,478	58,102
	3000K Lumens	5,811	11,355	16,944	22,388	27,739	33,194	39,256	44,479	49,617	54,933
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	7,149	13,970	20,846	27,543	34,126	40,837	48,295	54,722	61,042	67,582
	3000K Lumens	6,760	13,208	19,709	26,041	32,264	38,610	45,661	51,738	57,713	63,897
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	7,175	14,021	20,921	27,643	34,249	40,986	48,470	54,920	61,262	67,828
	3000K Lumens	6,784	13,256	19,780	26,136	32,381	38,750	45,827	51,925	57,922	64,129
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
5WQ	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	5,054	9,878	14,739	19,475	24,129	28,875	34,148	38,691	43,159	47,785
	3000K Lumens	4,779	9,338	13,935	18,412	22,813	27,301	32,286	36,581	40,805	45,179
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25,616	30,654	36,252	41,076	45,819	50,730
	3000K Lumens	5,074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47,964
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,153	10,068	15,022	19,849	24,593	29,430	34,805	39,436	43,990	48,705
	3000K Lumens	4,872	9,519	14,203	18,766	23,251	27,825	32,907	37,285	41,591	46,048
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,266	10,292	15,356	20,290	25,140	30,084	35,578	40,312	44,968	49,786
	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
	3000K Lumens	4,771	9,322	13,911	18,381	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,313	10,383	15,493	20,470	25,363	30,351	35,893	40,669	45,367	50,229
	3000K Lumens	5,024	9,817	14,647	19,354	23,980	28,696	33,936	38,452	42,893	47,490
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,411	10,574	15,778	20,848	25,830	30,911	36,554	41,418	46,202	51,154
	3000K Lumens	5,117	9,997	14,917	19,710	24,421	29,225	34,561	39,160	43,682	48,364
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,426	10,603	15,820	20,903	25,899	30,992	36,652	41,529	46,325	51,290
	3000K Lumens	5,130	10,025	14,958	19,763	24,486	29,302	34,654	39,263	43,799	48,493
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,528	8,846	13,199	17,440	21,609	25,858	30,580	34,649	38,651	42,792
	3000K Lumens	4,281	8,364	12,480	16,489	20,430	24,448	28,912	32,759	36,543	40,459
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,265	10,289	15,353	20,285	25,134	30,077	35,569	40,303	44,958	49,775
	3000K Lumens	4,978	9,727	14,516	19,179	23,763	28,437	33,629	38,105	42,506	47,060
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,285	10,327	15,409	20,360	25,225	30,186	35,699	40,450	45,120	49,956
	3000K Lumens	4,996	9,763	14,569	19,249	23,849	28,540	33,752	38,244	42,659	47,232
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K/5000K Lumens	4,121	8,055	12,019	15,881	19,676	23,547	27,847	31,552	35,196	38,967
	3000K Lumens	3,896	7,615	11,363	15,015	18,604	22,263	26,328	29,831	33,276	36,842
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	4000K/5000K Lumens	4,376	8,552	12,760	16,860	20,890	24,998	29,563	33,497	37,365	41,369
	3000K Lumens	4,138	8,085	12,064	15,941	19,751	23,635	27,951	31,670	35,328	39,113
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,201	8,210	12,251	16,187	20,055	23,999	28,383	32,159	35,873	39,718
	3000K Lumens	3,973	7,763	11,583	15,304	18,961	22,691	26,835	30,406	33,916	37,552
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	4000K/5000K Lumens	4,294	8,393	12,523	16,546	20,501	24,532	29,014	32,875	36,671	40,600
	3000K Lumens	4,060	7,936	11,840	15,644	19,383	23,195	27,432	31,082	34,671	38,386
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,226	8,257	12,321	16,280	20,172	24,139	28,547	32,346	36,082	39,948
	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,171	8,151	12,162	16,071	19,912	23,827	28,178	31,928	35,615	39,432
	3000K Lumens	3,943	7,706	11,498	15,194	18,825	22,527	26,642	30,187	33,673	37,281
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	4000K/5000K Lumens	4,114	8,041	11,998	15,854	19,643	23,506	27,799	31,498	35,135	38,901
	3000K Lumens	3,890	7,603	11,344	14,989	18,572	22,224	26,282	29,780	33,219	36,779
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	4000K/5000K Lumens	4,200	8,209	12,249	16,184	20,053	23,996	28,379	32,154	35,869	39,712
	3000K Lumens	3,972	7,762	11,580	15,302	18,960	22,688	26,831	30,400	33,913	37,546
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,992	7,799	11,638	15,378	19,053	22,801	26,964	30,552	34,081	37,733
	3000K Lumens	3,774	7,374	11,003	14,539	18,015	21,557	25,493	28,886	32,222	35,674
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,333	8,467	12,634	16,694	20,683	24,751	29,271	33,166	36,996	40,961
	3000K Lumens	4,097	8,005	11,945	15,784	19,555	23,401	27,674	31,357	34,978	38,727
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,413	8,622	12,867	17,000	21,064	25,207	29,810	33,777	37,677	41,715
	3000K Lumens	4,173	8,152	12,165	16,073	19,915	23,832	28,185	31,934	35,623	39,440
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	4,424	8,646	12,900	17,046	21,120	25,274	29,890	33,866	37,778	41,826
	3000K Lumens	4,182	8,175	12,197	16,117	19,968	23,896	28,260	32,018	35,717	39,545
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,692	7,214	10,763	14,222	17,621	21,086	24,937	28,256	31,519	34,897
	3000K Lumens	3,491	6,820	10,176	13,447	16,660	19,937	23,577	26,715	29,800	32,994
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,293	8,390	12,520	16,542	20,496	24,527	29,007	32,866	36,662	40,591
	3000K Lumens	4,059	7,932	11,837	15,640	19,378	23,189	27,425	31,074	34,662	38,377
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,310	8,421	12,566	16,602	20,571	24,616	29,112	32,986	36,795	40,738
	3000K Lumens	4,074	7,962	11,881	15,697	19,448	23,273	27,525	31,187	34,788	38,516
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) 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.

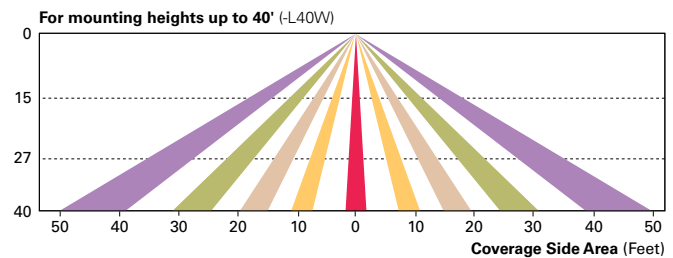
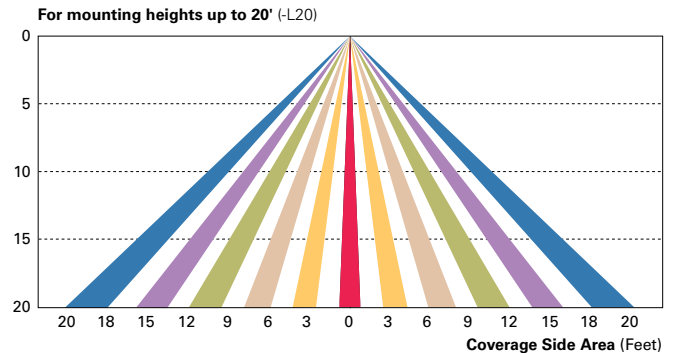
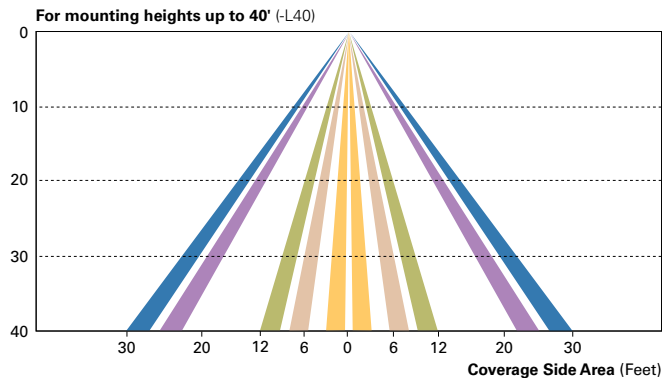
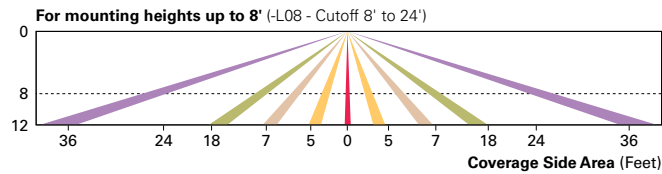
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

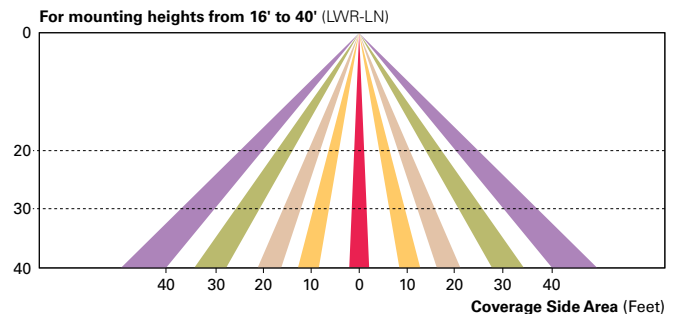
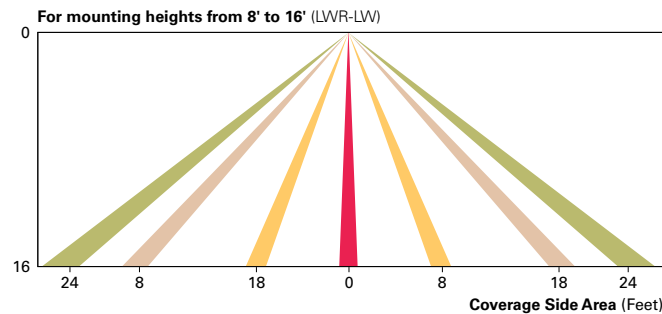
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



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 a broad selection of energy-efficient LED luminaires with a powerful 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 building resources, beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Eaton brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ^{7,8}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²
Options (Add as Suffix)					Accessories (Order Separately)		
7027=70 CRI 2700K ¹³ 7030=70 CRI 3000K ¹³ 8030=80 CRI 3000K ¹⁴ 7050=70 CRI 5000K ¹³ 7060=70 CRI 6000K ¹³ 600=Drive Current Factory Set to Nominal 600mA ¹⁵ 800=Drive Current Factory Set to Nominal 800mA ¹⁵ 1200=Drive Current Factory Set to Nominal 1200mA ^{15,16} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits ^{17,18} DIM=External 0-10V Dimming Leads ^{19,20} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Volatage) ²¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ²¹ R=NEMA Twistlock Photocontrol Receptacle ²¹ AHD145=After Hours Dim, 5 Hours ²² AHD245=After Hours Dim, 6 Hours ²² AHD255=After Hours Dim, 7 Hours ²² AHD355=After Hours Dim, 8 Hours ²² HA=50°C High Ambient ²³ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{24,26} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{24,27} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range) ^{24,28} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{24,25,29} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{24,26,29} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{22,27,29} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range) ^{24,28,29} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ^{24,25} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{24,26} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{24,27} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range) ^{24,28} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ³⁰ LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ³⁰ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing ³¹ HSS=Factory Installed House Side Shield ³² CE=CE Marking ³³					OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor ³⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit ¹¹ GLEON-QMEA=Quick Mount Extended Arm Kit ¹² LS/HSS=Field Installed House Side Shield ^{32,34} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) ³⁵		

NOTES:
1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 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). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 14 Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon luminaire product page on the website. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with LumaWatt Pro wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information. 25 Approximately 22' detection diameter at 8' mounting height. 26 Approximately 40' detection diameter at 20' mounting height. 27 Approximately 60' detection diameter at 40' mounting height. 28 Approximately 100' detection diameter at 40' mounting height. 29 Replace X with number of Light Squares operating in low output mode. 30 LumaWatt Pro wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information. 31 Not available with house side shield (HSS). 32 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 33 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 34 One required for each Light Square. 35 Requires 7-pin NEMA twistlock photocontrol receptacle. The WOLC-7 cannot be used in conjunction with additional sensors or controls.

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

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology* 	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	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 W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.

Steel Poles



RSS ROUND STRAIGHT STEEL

Catalog #		Type
Project		
Comments		Date
Prepared by		

FEATURES

- ASTM Grade steel base plate with ASTM A366 base cover
- Hand hole assembly 3" x 5" on 5" and 6" poles, 2" x 4" on 4" poles
- 10'-30' 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.

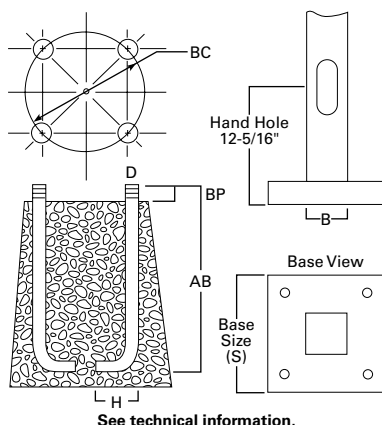
ORDERING INFORMATION

SAMPLE NUMBER: RSS4A20SF2XG

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)
RSS=Round Straight Steel	4=4" 5=5" 6=6"	A=0.120" ⁶ M=0.188"	10=10' 15=15' 20=20' 25=25' 30=30'	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 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° 6=3 at 90° 7=2 at 120° 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. 6. Available in 4" shaft size only.

ANCHORAGE DATA



See technical information.

Pole	Template Number	Bolt Number	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)
RSS4	TMP4	AB1	11	4	3/4 x 25 x 3
RSS5	TMP4	AB1	11	4	3/4 x 25 x 3
RSS6	TMP5	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	RSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	73	21.0	16.0	12.7	10.5	100
15	RSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	97	11.2	8.3	6.4	5.1	100
20	RSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	122	5.8	3.9	2.7	2.0	150
20	RSS5M20S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	216	17.0	13.0	10.4	8.4	150
25	RSS5M25S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	264	11.0	8.5	6.5	5.2	200
30	RSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	394	14.0	10.7	8.4	6.7	200

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	RSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	73	16.7	13.0	10.4	8.5	100
15	RSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	97	9.8	7.2	5.6	4.4	100
20	RSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	122	5.3	3.5	2.4	1.8	150
20	RSS5M20S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	216	15.0	11.7	9.2	7.5	150
25	RSS5M25S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	264	10.2	7.8	6.0	4.8	200
30	RSS6M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	394	13.1	10.0	7.8	5.9	200

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.

DESCRIPTION

The Galleon™ Wall LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces in both an upward and downward configuration. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

SPECIFICATION FEATURES

Construction

Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity. UPLIGHTING: Specify with the UPL option for inverted mount upright housing with additional protections to maintain IP rating.

Optics

Choice of thirteen patented, high-efficiency AccuLED Optics. The optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 6000K CCT. Greater than 90%

lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive currents.

Electrical

LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Eaton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws which are concealed but accessible from bottom of fixture.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.

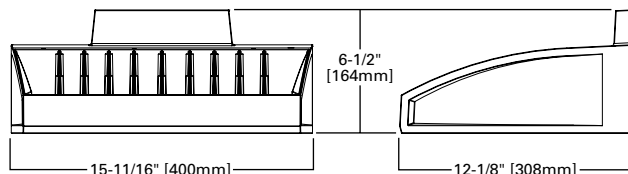


GWC GALLEON WALL

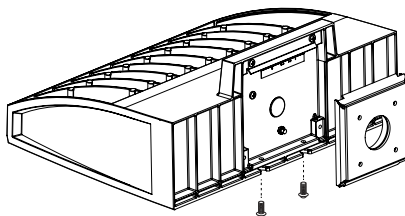
1-2 Light Squares
Solid State LED

WALL MOUNT LUMINAIRE

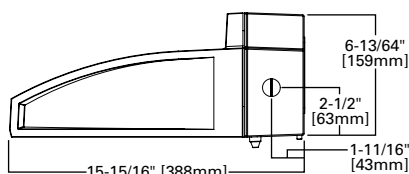
DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz
347V, 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)

SHIPPING DATA

Approximate Net Weight:
27 lbs. (12.2 kgs.)

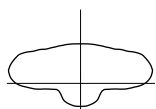
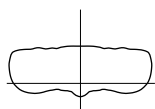
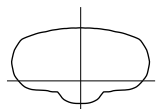
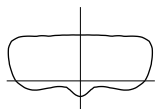
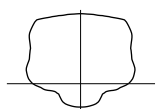
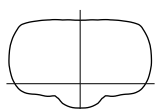
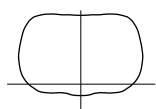
POWER AND LUMENS

Number of Light Squares		1				2			
Drive Current		600mA	800mA	1.0A	1.2A	600mA	800mA	1.0A	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (mA)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (mA)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	4000K/5000K Lumens	4,204	5,156	6,381	7,000	8,215	10,075	12,470	13,680
	3000K Lumens	3,975	4,874	6,033	6,618	7,767	9,525	11,790	12,934
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,285	5,256	6,505	7,135	8,375	10,269	12,710	13,943
	3000K Lumens	4,051	4,969	6,150	6,746	7,918	9,710	12,017	13,182
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T4FT	4000K/5000K Lumens	4,311	5,286	6,542	7,177	8,422	10,329	12,784	14,024
	3000K Lumens	4,075	4,998	6,185	6,786	7,963	9,766	12,086	13,259
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4W	4000K/5000K Lumens	4,254	5,217	6,458	7,084	8,313	10,195	12,619	13,843
	3000K Lumens	4,023	4,933	6,105	6,698	7,860	9,639	11,931	13,088
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
SL2	4000K/5000K Lumens	4,196	5,147	6,370	6,988	8,202	10,058	12,449	13,656
	3000K Lumens	3,967	4,866	6,022	6,607	7,755	9,509	11,771	12,911
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	4,284	5,255	6,504	7,134	8,374	10,268	12,709	13,941
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
SL4	4000K/5000K Lumens	4,071	4,992	6,179	6,778	7,954	9,756	12,074	13,246
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
5NQ	4000K/5000K Lumens	4,420	5,420	6,709	7,358	8,637	10,591	13,108	14,380
	3000K Lumens	4,179	5,124	6,343	6,957	8,166	10,013	12,393	13,595
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
5MQ	4000K/5000K Lumens	4,501	5,520	6,831	7,494	8,795	10,786	13,350	14,644
	3000K Lumens	4,256	5,219	6,458	7,085	8,316	10,198	12,622	13,845
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,513	5,534	6,849	7,514	8,819	10,815	13,385	14,683
	3000K Lumens	4,268	5,232	6,475	7,104	8,338	10,224	12,656	13,882
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,765	4,619	5,716	6,270	7,358	9,023	11,167	12,251
	3000K Lumens	3,560	4,367	5,404	5,927	6,957	8,531	10,559	11,583
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,379	5,370	6,647	7,293	8,558	10,494	12,989	14,250
	3000K Lumens	4,141	5,077	6,285	6,895	8,092	9,922	12,281	13,473
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2

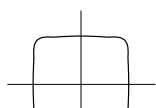
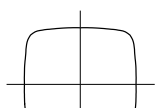
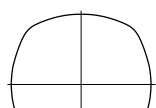
* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

OPTICAL DISTRIBUTIONS

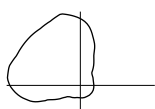
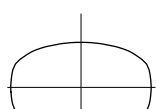
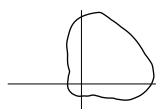
Asymmetric Area Distributions

T2
(Type II)SL2
(Type II with Spill Control)T3
(Type III)SL3
(Type III with Spill Control)T4FT
(Type IV Forward Throw)T4W
(Type IV Wide)SL4
(Type IV with Spill Control)

Symmetric Distributions

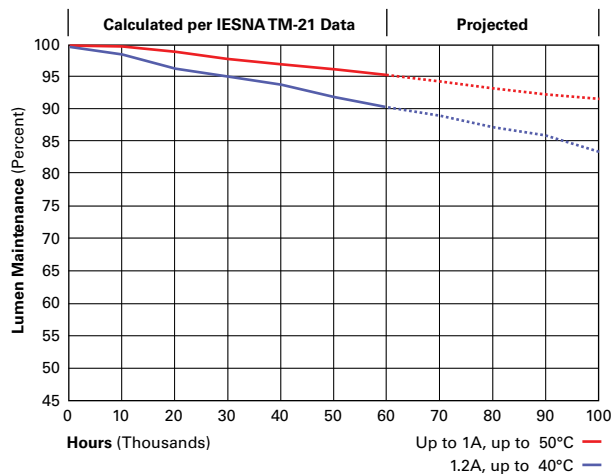
5NQ
(Type V Square Narrow)5MQ
(Type V Square Medium)5WQ
(Type V Square Wide)

Specialized Distributions

RW
(Rectangular Wide Type I) (90° Spill Light Eliminator Left)SLR
(90° Spill Light Eliminator Right)

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

CONTROL OPTIONS

0-10V

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) 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.

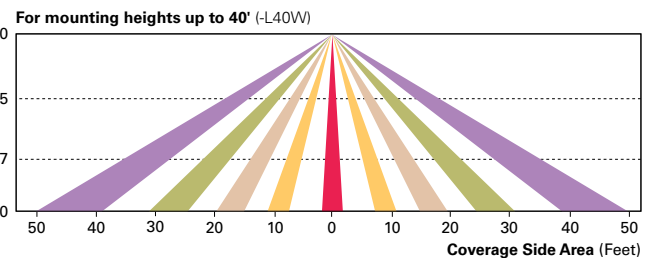
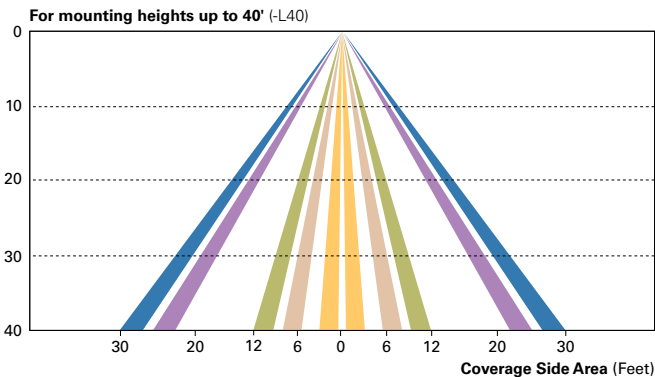
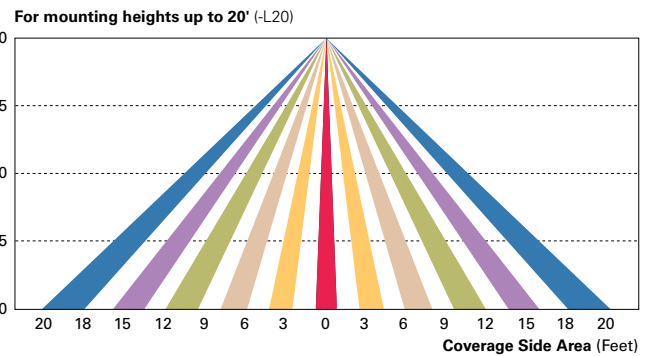
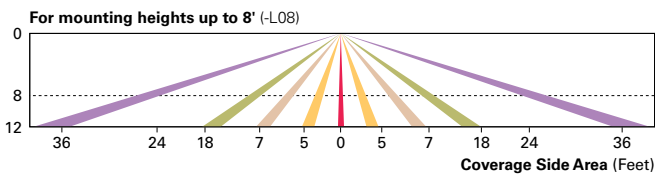
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX and MS-LXX)

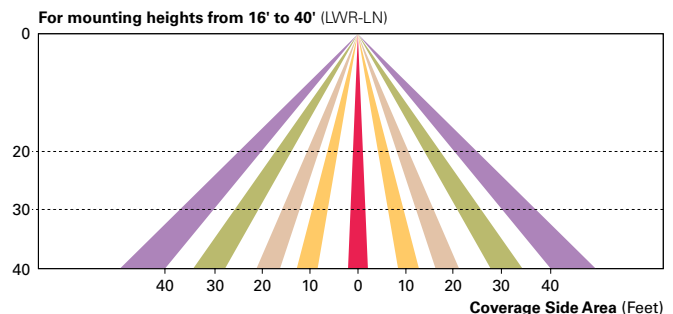
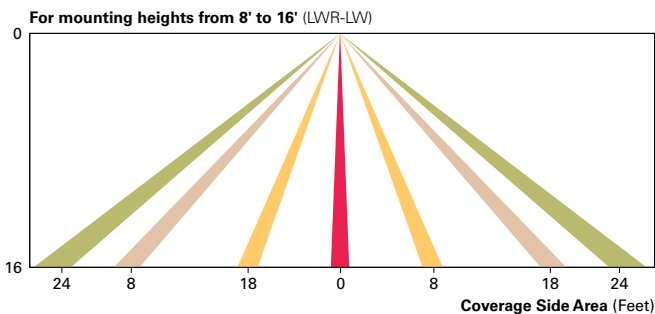
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



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 a broad selection of energy-efficient LED luminaires with a powerful 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 building resources, beyond lighting.



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

ORDERING INFORMATION

Sample Number: GWC-AF-02-LED-E1-T3-GM

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting Options
GWC=Galleon Wall	AF=1A Drive Current	01=1 02=2 ³	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁴ 480=480V ^{4,5}	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color ⁶	[BLANK]=Surface Mount
Options (Add as Suffix)					Accessories (Order Separately)		
7027=70 CRI / 2700K ⁷ 7030=70 CRI / 3000K ⁷ 8030=80 CRI / 3000K ⁷ 7050=70 CRI / 5000K ⁷ 7060=70 CRI / 6000K ⁷ 600=Drive Current Factory Set to 600mA 800=Drive Current Factory Set to 800mA 1200=Drive Current Factory Set to 1200mA ⁸ F=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module DIM=0-10V Dimming Leads ^{9,10} DALI=DALI Driver ¹¹ HA=50°C High Ambient ¹² UPL=Uplight Housing ¹³ BBB=Battery Pack with Back Box ^{3,8,14,27} CWB=Cold Weather Battery Pack with Back Box ^{3,8,14,27} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) R=NEMA Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ AHD145=After Hours Dim, 5 Hours ¹⁶ AHD245=After Hours Dim, 6 Hours ¹⁶ AHD255=After Hours Dim, 7 Hours ¹⁶ AHD355=After Hours Dim, 8 Hours ¹⁶ MS-LXX=Motion Sensor for On/Off Operation ^{17,18,19} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{17,18,19} LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{19,20,21} LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{19,20,21} L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top LCF=Light Square Trim Plate Painted to Match Housing ²² HSS=Factory Installed House Side Shield ²³ CE=CE Marking and Small Terminal Block ²⁴					OA/RA1013=Photocontrol Shorting Cap OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201=NEMA Photocontrol - 347V OA/RA1027=NEMA Photocontrol - 480V MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷ LS/HSS=Field Installed House Side Shield ^{23,25} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin) ²⁶		

NOTES:

- DesignLight Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Two light squares with BBB or CWB options limited to 25°C, 120-277V only.
- Requires the use of a step down transformer. Not available in combination with sensor options at 1200mA.
- 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).
- Custom colors are available. Setup charges apply. Paint chip samples required. Extended Lead times apply.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- Not available with HA option.
- Cannot be used with other control options.
- Low voltage control lead brought out 18" outside fixture.
- Only available with BBB or CWB in single light square. HA option available for single light square only. Limited to 1A and below.
- Not available with 1200, UPL, BBB and CWB options. Available for single light square only.
- Not available with SL2, SL3, SL4, HA, BBB, CWB, R, or PER7 options.
- Operates a single light square only. Cold weather option operates -20°C to +40°C, standard 0°C to +40°C. Backbox is non-IP rated.
- Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
- Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
- Replace LXX with the available mounting height options: L08, L20, L40 or L40W are the only choices.
- Includes integral photosensor.
- LumaWatt wireless sensors are factory installed requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
- Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
- Not available with HSS option.
- Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
- CE is not available with the 1200, DALI, LWR, MS, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- One required for each light square.
- Requires 7-pin NEMA twistlock photocontrol receptacle. The WOLC-7 cannot be used in conjunction with additional sensors or controls.
- Control option limited to P=Button Type Photocontrol (must specify voltage).

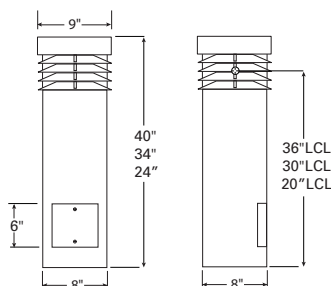


3120C LED IMPACT RESISTANT ROUND BOLLARD FLAT TOP

LED IP65

Specifications

EPA:	-
Dia:	9"
	229 mm
Dia ² :	8"
	204 mm
H:	42"
	1016 mm
H ² :	36"
	915 mm
Weight	-



CATALOG NUMBER	
NOTES	
TYPE	

DESCRIPTION

The 3120C BOLLARD is a low level area lighting luminaire that combines visual appeal with superior performance and unequalled quality. It is designed to work in building perimeter areas and public spaces completing a wide variety of architectural styles.

Superior performance extends to the detailed finish of the louvers. Matte black finish of top surface provides IES cut off performance while gloss white on bottom extends reflective light to economize on spacing of fixtures. Custom finish available on top louver surface.

The 3120C BOLLARD offers a patented impact resistant mounting and leveling design ensuring life long performance. Four levelling pads within the base mounting plate are easily accessible through the access panel. The levelling pads provide full contact with the concrete pad, providing a high degree of stability. The base mounting plate is fully welded to the bollard post, providing complete structural support from all directions, giving the bollard superior vandal resistance.

Motion Sensing Bi-Level Switching (BLS option) is now possible through the use of a fixture-integrated microwave occupancy sensor. Mounted in the head of the fixture, within the sealed light engine compartment, the sensor is protected from moisture damage, as well as potential damage due to vandalism. The sensor provides up to 20' of motion coverage in the 360 deg area around the bollard (see diagram on the next page). When motion is detected bollard will illuminate at full output (72 watts). After approx 5 min, bollard will drop to 19 Watts (660 lumens).

ORDERING INFORMATION

3120C H36 8COB 50K MVOLT SYM BL

Series	Height	Lamp type	Color	Voltage	Distribution	Options ⁴
3120C	H24	4COB ¹	20K 2000°K Color Temp	MVOLT (120-277 volt)	SYM Symmetrical 360°	BLS ^{5,6} Bi-Level Switching (Motion Activated)
	H36	8COB	30K 3000°K Color Temp	120 ²	FT ³ Forward Throw	GFCI Receptacle; 120 volt only
	H42		40K 4000°K Color Temp	277 ²		ELN ^{5,7} Emergency Operation (1387.5 lumen output; 90 minutes)
			50K 5000°K Color Temp	347		LDIM 0-10V Dimming (Dims to 10%)
			AMBLW Limited wavelength Amber 591 Nanometers			IDIM ⁶ In-line Trailing Edge ELV Dimming (Dims to 40%); 120 volt only

Finish

BL	Black
BZ	Bronze
DDB	Dark Bronze
DNA	Natural Aluminum
GN	Green
GR	Gray
SND	Sand

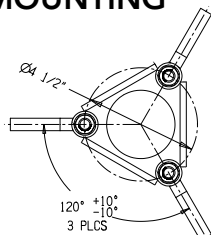
STG	Steel Gray
TVG	Terra Verde Green
WH	White
CF	Custom
__Z ⁸	Zinc Undercoat
RALTB	RAL Paint Finishes

Note: RALTB for pricing only, replace with applicable RAL call out when ready to order. See the RALBROCHURE for available options. It is recommended that Hydrel products only use textured paint.

Optional Louvers Painted⁹

___/PL Louvers painted to match fixture (top only)

MOUNTING



Notes:

- 1 4COB for use with 20K and AMBLW only, 20K and AMBLW require 4COB.
- 2 Required with ELN or BLS.
- 3 FT not available with BLS.
- 4 BLS is not available with ELN, LDIM or IDIM.
- 5 ELN and BLS require 120 or 277 voltage, not MVOLT or 347.
- 6 Drive current will be 250.
- 7 ELN not available on 24" height.
- 8 Add zinc undercoat for harsh environments.
- 9 Louvers will be black unless otherwise specified (top only).



One Lithonia Way • Conyers, GA 30012
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Rev. 10/15/18
3120C COB

LUMEN OUTPUT

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

Light Engines	Distribution	Drive Current	System Watt	Lumens	LPW	B	U	G
3000K	SYM	250*	72	1300	18	1	2	1
		300	84	1525	18	1	2	1
4000K	SYM	250*	72	1320	18	1	2	1
		300	84	1535	18	1	2	1
5000K	SYM	250*	72	1535	21	1	2	1
		300	84	1810	22	2	2	1
2000K	SYM	1050	72	900	13	1	2	1

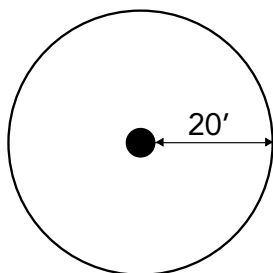
*Used with IDIM and BLS options.

LED LIFE: L70/125,000 hours

OPERATING TEMPERATURE: -20°C Through 50°C

-40°C through 50°C with IDIM & BLS options

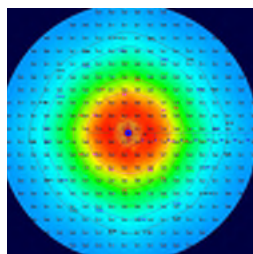
APPROXIMATE MOTION SENSOR COVERAGE AREA:



PHOTOMETRIC DIAGRAMS

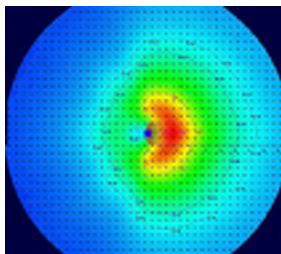
To see complete photometric reports or download .ies files for this product, visit www.hydrel.com/

Isocandela plots for 3100 COB



SYM

Tested in accordance with IESNA LM-79-08.



FT

Tested in accordance with IESNA LM-79-08.

FEATURES & SPECIFICATIONS

MATERIAL: Copper-free Aluminum, A360.

LED ARRAY: 72W and 84W (total system input wattage) Lumen maintenance of individual light sources have been independently tested to IESNA LM-80 standards.

VOLTAGE: MVOLT 50/60Hz, 120, 277 or 347

DISTRIBUTION: SYM - Symmetric, FT - Forward Throw

LENS: Frosted Borosilicate Glass.

POWER SUPPLY: Integrally mounted LED driver run at 300mA, -20°C through 50°C standard. Alternate driver run at 250mA, -40°C through 50°C used with IDIM and BLS.

FASTENERS: Stainless Steel.

FINISH: Super durable polyester TGIC powder coat finish (standard). Optional zinc undercoat for harsh environments.

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C	1.05
10°C	1.03
20°C	1.01
25°C	1.00
30°C	.99
40°C	.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the Fixture platform in a 25°C ambient, based on 8400 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.91	0.85	0.75

Electrical Load

Light Engines	Drive Current (mA)	System Watts	Current (A)					
			120	208	240	277	347	480
8 COB	250mA	72.35	0.603	0.348	0.301	0.261	0.209	0.151
	300mA	83.95	0.700	0.404	0.350	0.303	0.242	0.175



LISTINGS: CSA_{US}, CSA

WARRANTY: 5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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



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3120C COB