

Architectural Review Board Staff Report

Project type:	Site Development Section Plan
Meeting Date:	June 20, 2024
From:	Shilpi Bharti, Planner <i>SB</i>
Location:	714 Long Road Crossing Drive
Description:	Long Road Crossing, Lot B-2: A Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for a vehicle repair facility located on a 4.6-acre tract of land located east side of Long Road Crossing Drive, zoned "PC"-Planned Commercial.

PROPOSAL SUMMARY

Omaha Collision Company, LLC has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for a proposed vehicle repair facility building to be known as B Street Collision Center located at 714 Long Road Crossing Drive in the Long Road Crossing subdivision. The project was presented in front of Architectural Review Board on May 09, 2024. There were several comments related to general building design and screening. At that time, the applicant requested to hold and the board approved the request by a vote of 6-0. Since then, the applicant has revised their submittal.

Proposed Development includes:

- 28,468 square feet of building
- 144 parking spaces
- Landscape Plan
- Lighting Plan



Figure 1: Subject Location

CHANGES SINCE MAY ARB:

The applicant has updated the Elevations to include additional design features on the north and east elevations. On the north elevation, two different colors of pre-cast concrete panels of varying parapet heights that are higher on the sides and lower in the middle. The east side of the building faces westbound Long Road. The east façade consists of two different colors of brick veneer and two different colors of precast concrete panels with six overhead doors.

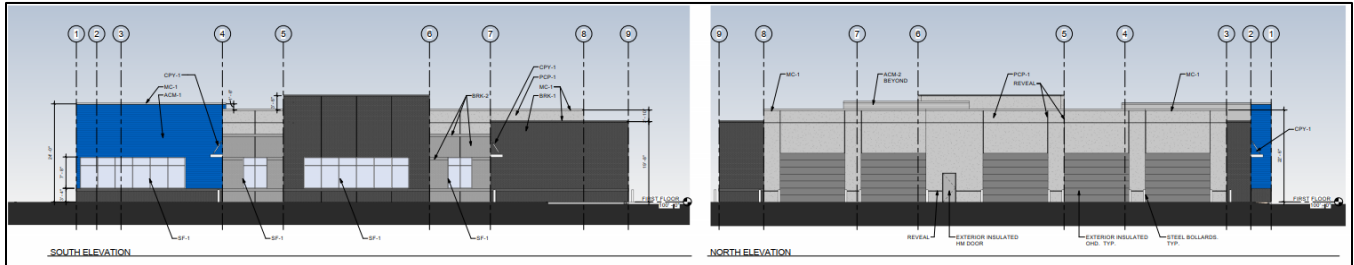


Figure 2: Previously proposed south and north sides elevations

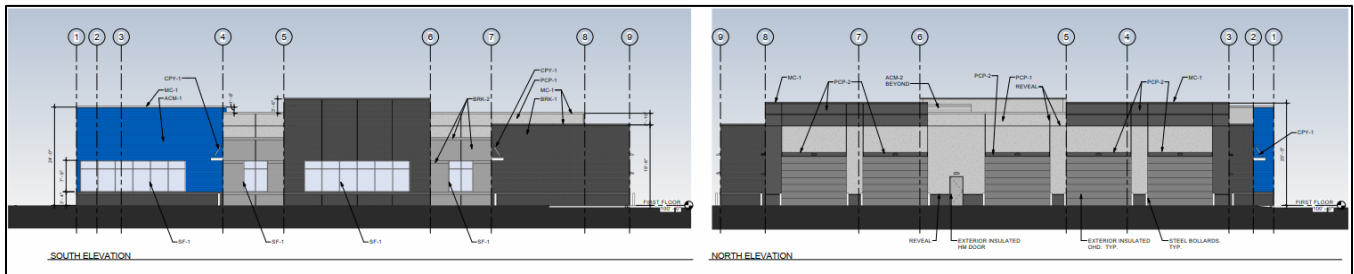


Figure 3: Revised south and north sides elevations

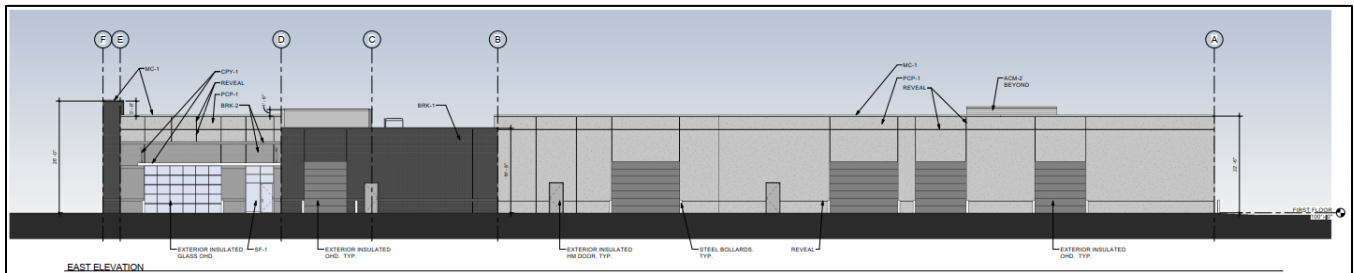


Figure 4: Previously proposed east side elevation

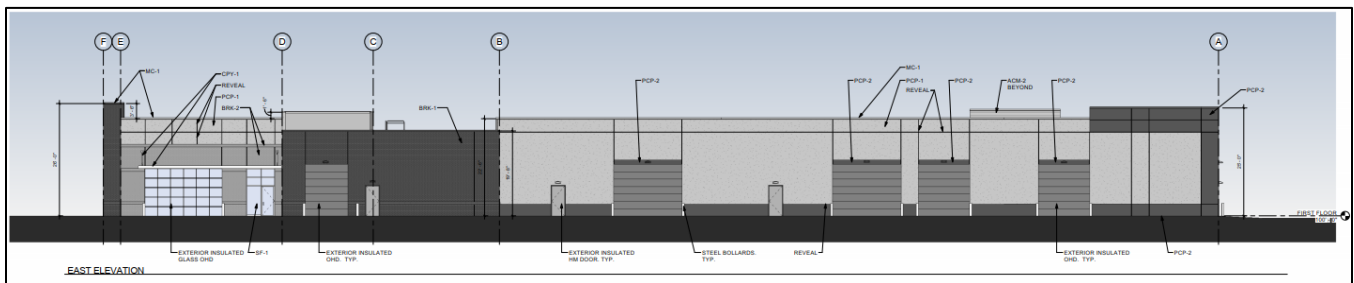


Figure 5: Revised east side elevation

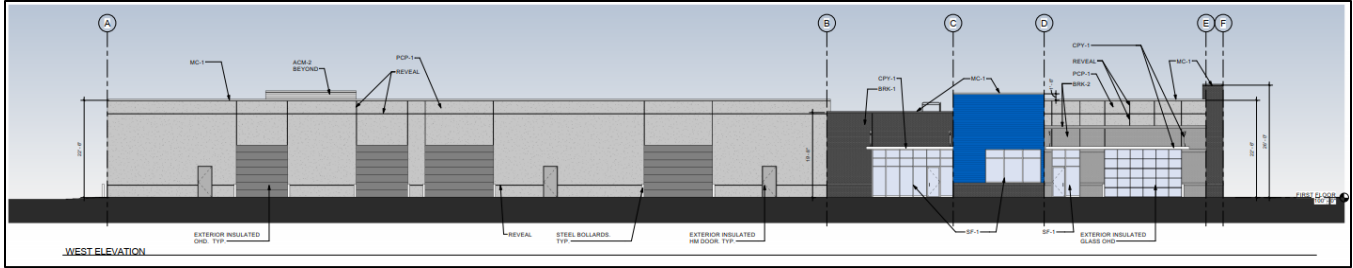


Figure 6: Previously proposed west side elevation

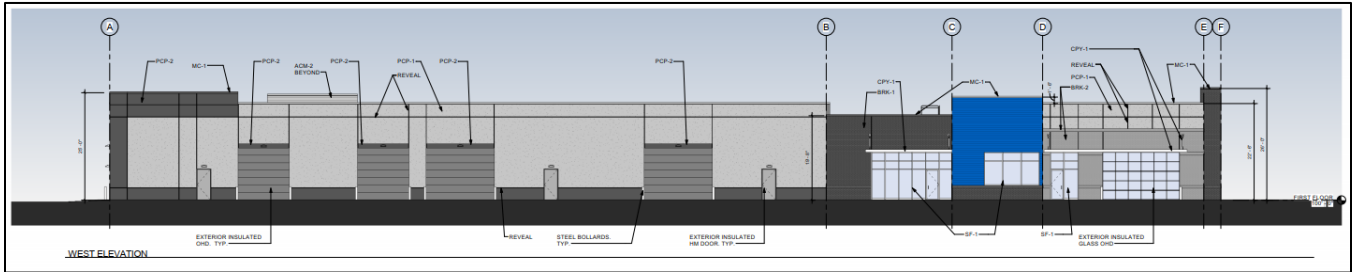


Figure 7: Revised west side elevation

Rendering



Figure 8: View from I-64

DEPARTMENTAL INPUT

Be advised, this project is under review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed, and Amended Site Development Concept Plan is approved. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

MOTION

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Long Road Crossing Lot B-2, as presented, with a recommendation for approval (or denial)."
- 2) "I move to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Long Road Crossing Lot B-2, with a recommendation for approval with the following conditions..."

Attachments

1. ARB May 09 Staff Report
2. Architectural Review Packet Submittal

Architectural Review Board Staff Report

Project type: Site Development Section Plan

Meeting Date: May 09, 2024

From: Shilpi Bharti, Planner *SB*

Location: 714 Long Road Crossing Drive

Description: **Long Road Crossing, Lot B-2:** A Site Development Section Plan, Landscape Plan, Lighting Plan and Architectural Elevations for a vehicle repair facility located on a 4.6-acre tract of land located east side of Long Road Crossing Drive, zoned “PC”-Planned Commercial.

PROPOSAL SUMMARY

Omaha Collision Company, LLC has submitted a Site Development Section Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for a proposed vehicle repair facility building to be known as B Street Collision Center located at 714 Long Road Crossing Drive in the Long Road Crossing subdivision.

Proposed Development includes:

- 28,468 square feet of building
- 146 parking spaces
- Landscape Plan
- Lighting Plan



Figure 1: Subject Location

HISTORY OF SUBJECT SITE

The site is located in the Long Road Crossing subdivision of the City of Chesterfield. The subdivision was zoned “M3” –Planned Industrial District prior to City’s incorporation. In 2000, the site was rezoned to “PC”Planned Commercial creating ordinance 1595. Later in 2004 and 2007 the ordinance was amended to modify the development standards and permitted uses. The current ordinance governing the site is ordinance 2351. In 2003, the Site Development Concept Plan for the subdivision was approved. Later

in 2005, and 2015 Site Development Concept Plan was amended to create more than six lots. Today, the Long Road Crossing subdivision is comprised of nine (9) lots. Currently, the applicant has submitted an Amended Site Development Concept Plan, Boundary Adjustment Plat, and Vacation of Easement for the subdivision. The submitted Amended Site Development Concept Plan will create a total of seven lots and will revise the existing south side property line of Lot B-2. The Boundary adjustment plat (which is under review) reflects the lot configuration as shown in an Amended Site Development Concept Plan. The figure below shows the updated lot line for Lot B-2.

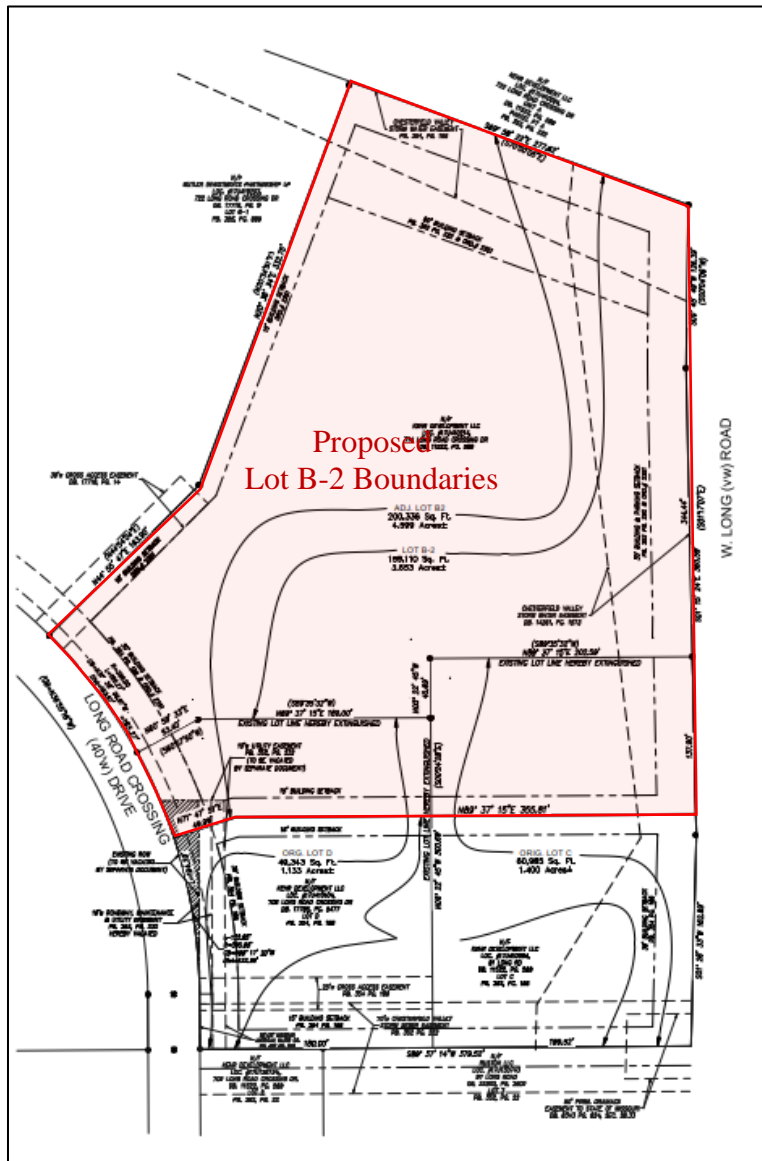


Figure 2: Submitted Boundary Adjustment Plat

STAFF ANALYSIS

The Site Development Section Plan for Lot B-2 proposes a 28,468 square foot vehicle repair and service facility. The building will have access from an existing shared drive located on the west side of the property. The east and north side of the property faces the westbound Long Road and Interstate I-64,

respectively. A trash enclosure and cardboard compactor are located on the east side of the property. The City of Chesterfield Unified Development Code (UDC) provides general requirements for site design and building design which are further described in the report.

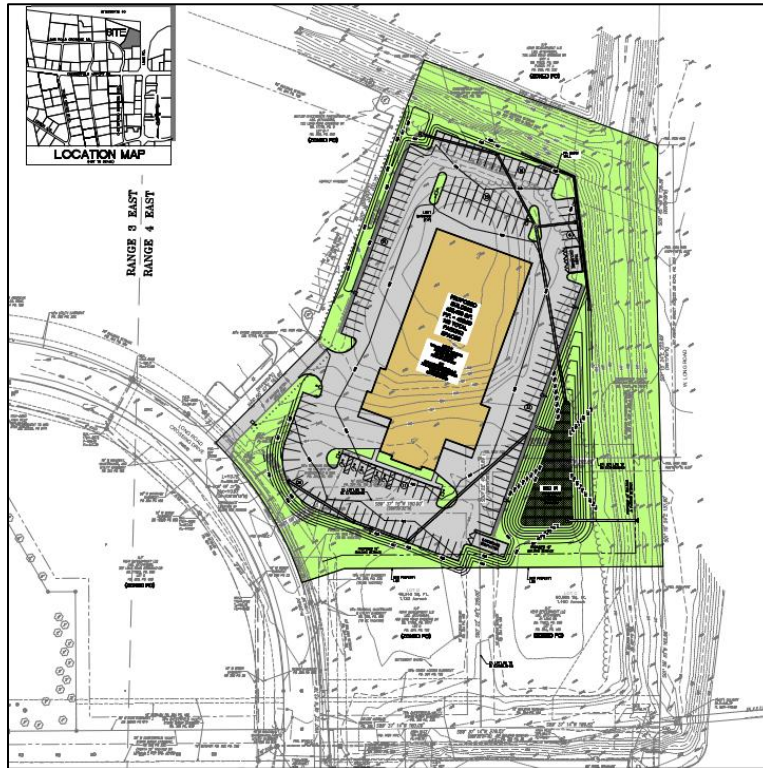


Figure 3: Colored Site Plan

Site Relationships

The proposed building is 28,468 square feet on 4.6 acres of land. The height of the proposed single-story building is 30'. The site is surrounded by westbound Long Road on the east, Interstate I-64 on the north, vacant land on the south, and single-story car dealership building "Kia" on the west side.

Circulation System and Access

The site is accessed through Long Road Crossing Drive that leads to the private cross access drive located on the west side of the property. Internal driveways are 22'-40' wide with two-way access.

Scale, Topography, Retaining Wall and Screening

The site sits vacant and is surrounded by a building on the north and vacant land on the south side. The site is relatively flat. There is a retaining wall proposed on the northeast side of the property near the proposed parking area. There will be roof top mechanical equipment that will be screened by a parapet and screen wall.

Materials and Color

There are five prominent building materials used for all four sides of the building elevations. The front elevation faces the Long Road Crossing Drive. The front façade consists of bricks and ACM panels. The

west side elevation consists of bricks, ACM panels and precast concrete panels. There will be four exterior insulated overhead doors and one exterior insulated glass overhead door on the west side elevation. The east side of the building faces westbound Long Road. The east façade consists of bricks and precast concrete panel with six overhead doors.

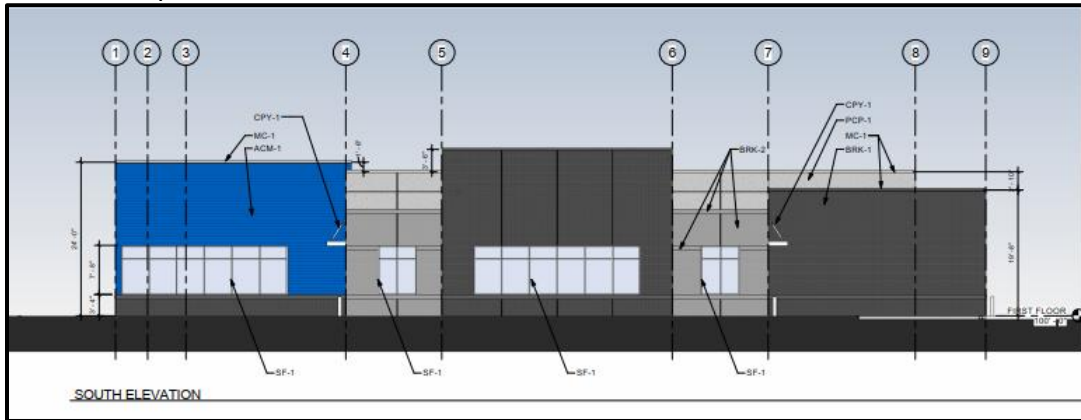


Figure 4: Front Elevation

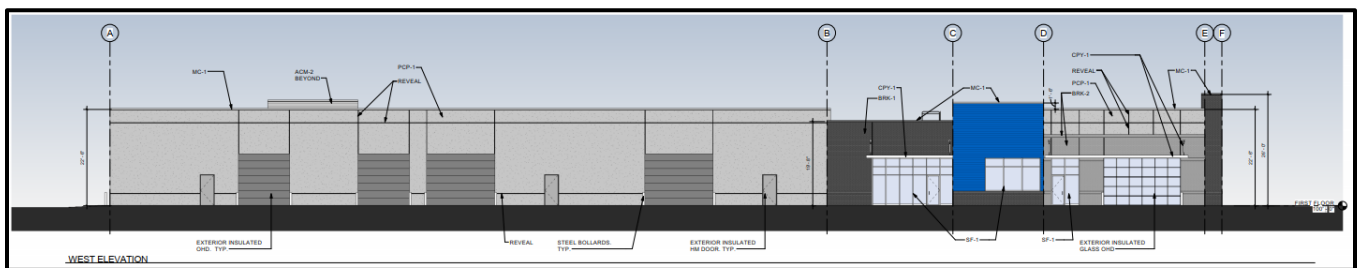


Figure 5: West side Elevation

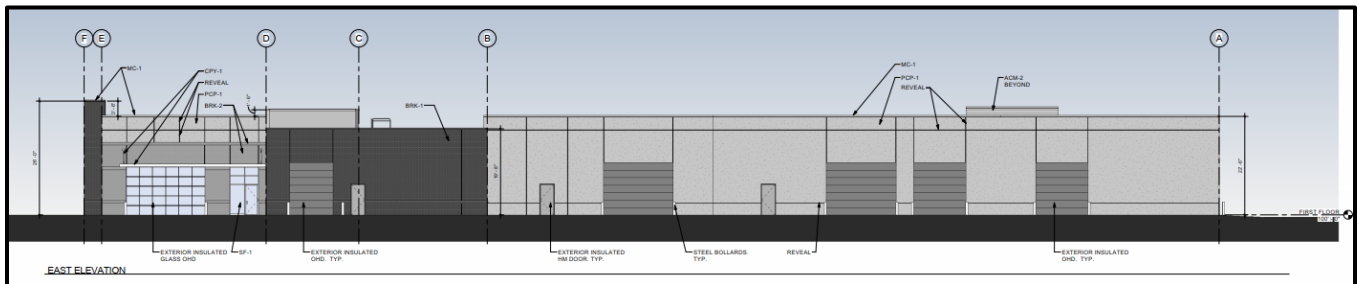


Figure 6: East side elevation facing Long Road Crossing

Lighting

There are four different types of light fixtures proposed for this development which includes parking lights and wall pack lights. All of the proposed light fixtures comply with City code.

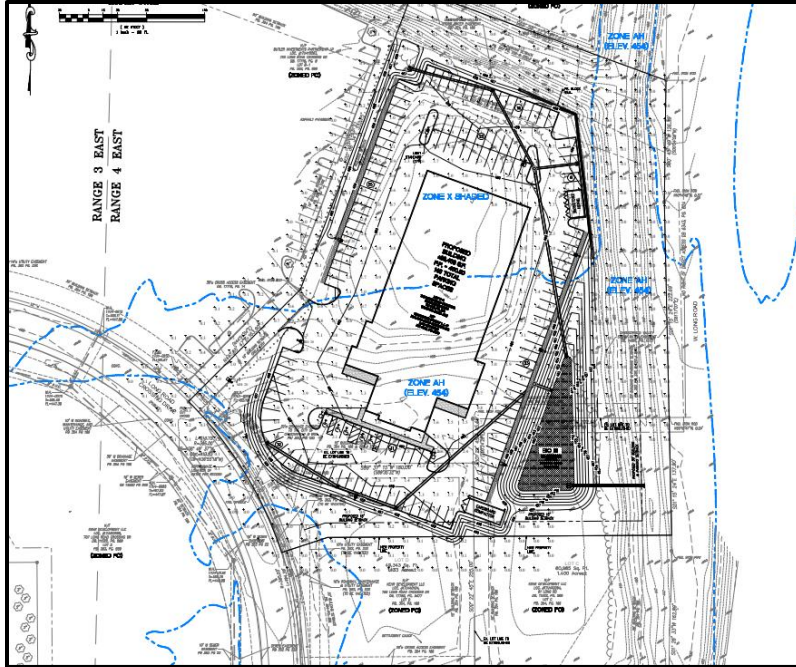


Figure 7: Lighting Plan

Landscaping

The proposed landscape plan of the site consists of shade trees, ornamental trees, evergreen trees, shrubs, and ground cover. As required by the City of Chesterfield Unified Development Code, the site is required to have a 30' landscape buffer along the east side of the property facing the westbound Long Road.

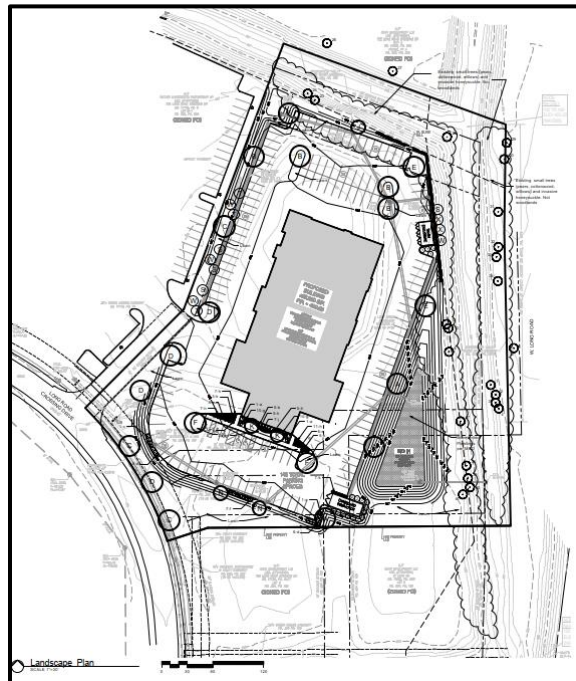


Figure 8: Proposed Landscaping

Rendering



Figure 9: Front View from North Outer 40 Road



Figure 10: Isometric View from south east corner

DEPARTMENTAL INPUT

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Attachments

1. Architectural Review Packet Submittal



GRAY DESIGN GROUP
9 Sunnen Drive, Suite 110, Saint Louis, MO 63143

P 314 646 0400 | F 314 646 0100
info@GRAYDESIGNGROUP.COM

Architectural Review Board
City of Chesterfield Planning Department
690 Chesterfield Parkway West
Chesterfield, MO 63005

April 29, 2024

City of Chesterfield Planning Department:

We are pleased to submit this statement of design to accompany elevations, renderings, site plan, photometric and landscape plans as required to communicate the design of the new proposed BStreet Collision Center at 714 Long Road Crossing Drive. Our intent is to address the pertinent requirements of Article 04 of the City Municipal Code through narrative below.

General Requirements for Site Design:

This new BStreet Collision Center is one of a small chain of auto body locations in the Midwest. The current owner, Bob and Norma Wiese, opened the doors in hopes to be the "premier post-collision service provider" for the region. The building is located on a 3.65-acre lot and will be a one story, approximate 28,468 GSF structure. The main building entry will face the West while drive-in doors face West, North, and East. Our building type, scale and site orientation is expected to be compatible with neighboring commercial developments for this area. Safe pedestrian movement is encouraged by a sidewalk along Long Road Crossing and North Trade Center Boulevard.

Circulation System and Access:

Bicycle parking is provided as shown on the Site plan and since few pedestrians are expected to interact with this facility, no sidewalks on the lot are proposed. Employee and public parking are provided on all sides of the building with service areas located in the back.

Topography:

The existing site is relatively flat and we have generally retained the natural slope and topography of the site. The site differs by 5'-0". Minimal grading is required to create stormwater channels.

Retaining Walls:

There is a retaining wall at the northeast portion of the parking area. This wall along with the building is used to transition the grade from the north to the south. The low wall is built with Concrete Masonry units painted to match the color of the building.

Building Scale:

This one-story building has an average wall elevation of 22'-6". This height falls within the allowable height and story limitations for this zoning ordinance and is generally consistent with adjacent commercial buildings.

Human Scale:

The building achieves a sense of human scale by varying height tilt-up panels and recessed faces all to provide relief in the façade.

Generic Scale:

The window lines, horizontal and vertical reveals, paint, Canopy, and horizontal elements indicating a base, middle, and cornice to the façade help to break down the scale.

Design:

The building tilt-up panels are articulated with a palette of neutral paint colors with a sandblasted finish divided by architectural reveals on all four sides. Thin Brick with horizontal patters is applied on three sides of the building near pedestrian areas. While the building is intended to incorporate subtle design influences from the BStreet stores, the design is not perceived as a corporate for franchise design intended as advertising. Perimeter wall panels will extend above the roof edges to effectively screen mechanical units in addition to metal screens. No mechanical units will be located on the ground.

Materials and Colors:

Color choices as shown on the elevations will be compatible with other buildings in Chesterfield and will not be highly reflective. The building will not be pre-fabricated and will be fully built on site.

Landscape Design and Screening:

Positioned on or near two public streets, the most prominent landscape element of this site will be the Street Trees located along Long Road Crossing. These trees will provide both vertical structure as well as shade for the public's views of the facility and the pedestrian users of the sidewalks. Care has been taken to site these trees to respect sight triangles at entrances, utilities and storm drainage facilities. Vehicular entrances and associated signs have been landscaped with ornamental trees, shrubs and perennials to emphasize and highlight these entrances.

Tree plantings in the parking lots are provided to allow each parking space to be within 50' of a tree. These trees will provide shade and help "break down" the scale of the parking lots.

Low shrub plantings have been located on the main entrance (west)side to provide landscape interest for the employees and guests. Larger shrub and small tree plantings are situated at the southwest corners of the building to anchor and frame the views of the building.

The areas between the street and the parking and drives have been landscaped with lawns and a combination of evergreen trees, ornamental trees and shrubs. The informal design of these groupings soften the visual appearance of the linear parking and building elements.

Evergreen plantings (tree and shrubs) have been utilized to shield and screen views to the service areas on the east side of the building.

On the eastern edge of the property, a bioretention basin will be planted with MSD approved trees, shrubs, forbs and grasses to provide the water quality requirements for this project.

All areas of the site will be provided with an automatic underground irrigation system.

Signage:

Signs will be submitted through a separate process at a later date and will adhere to the UDC. Signs are shown for reference only.

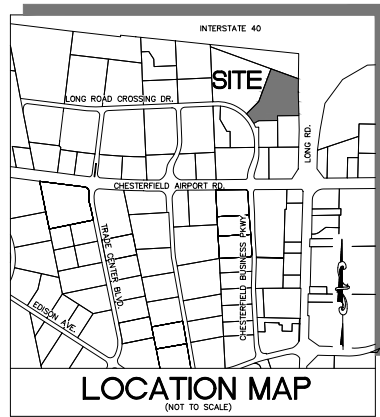
Lighting:

Please refer to the attached Photometric Plans for light specifications and footcandle map.

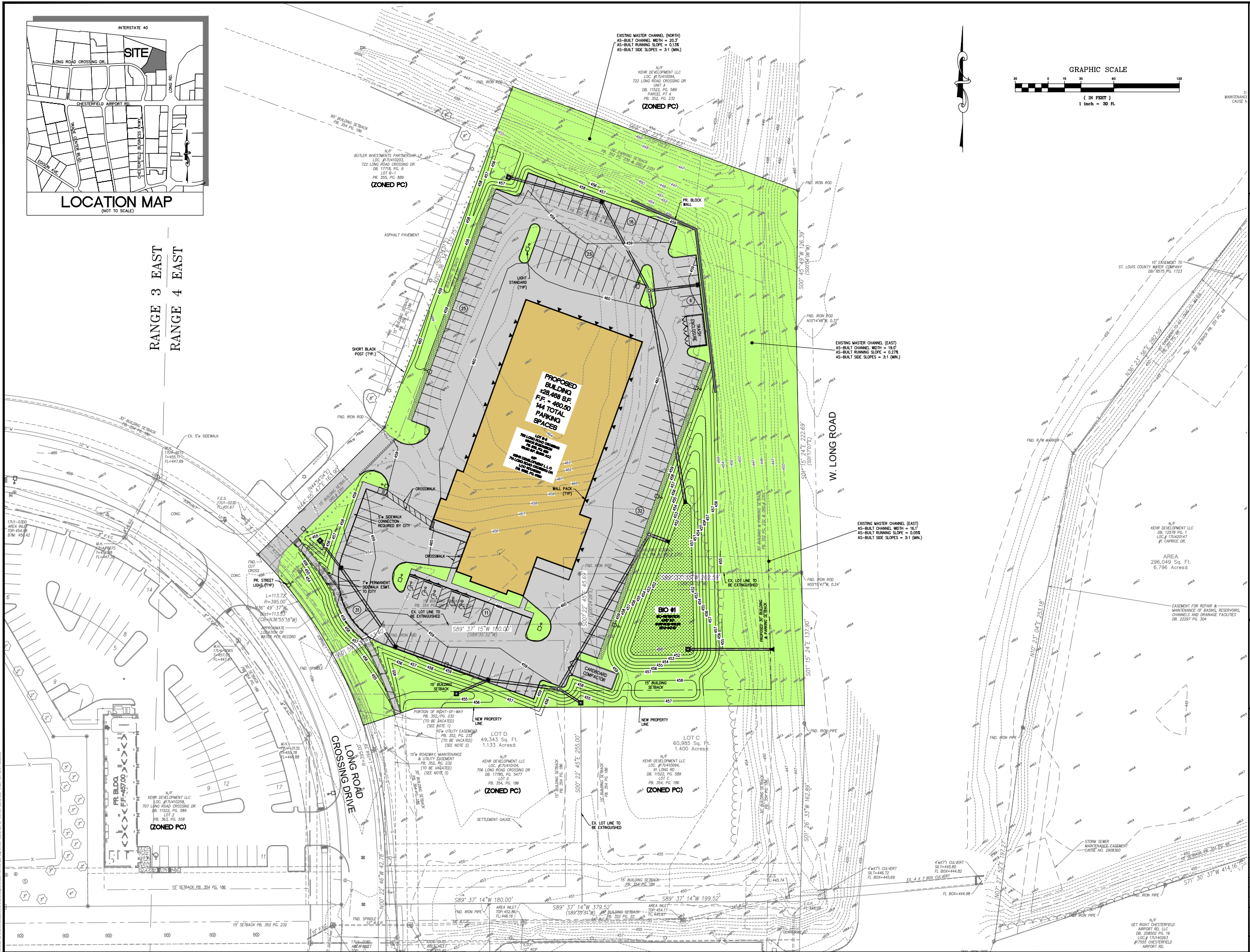
Sincerely,



Ed Garozzo, Assoc. AIA , Project Manager (TH/lh)



RANGE 3 EAST
RANGE 4 EAST



PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chestersfield Business Parkway
St. Louis, MO 63103
TEL: 314.433.8800
FAX: 314.433.8801
E-MAIL: general@stockass.com
Web: www.stockass.com

COLORED SITE PLAN FOR:
B STREET COLLISION CENTER
714 LONG ROAD CROSSING DR.
CHESTERSFIELD, MISSOURI 63005

GEORGE M. STOCK E-25116 CIVIL ENGINEER CERTIFICATE OF AUTHORITY NUMBER: 000996	
REVISIONS:	
1	05/29/24 SSP SUBMITTAL #2
DRAWN BY:	CKM/S
CHECKED BY:	CKM/S
DATE:	04-05-2024
SSD NO.:	2023-1543
W.S.D. #:	BASE MAP #
S.L.C. VERT. #:	17-U
W.D.M.A. #:	NAT SUP. #
SHEET TITLE: COLORED SITE PLAN	
SHEET NO.:	



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

3D VIEWS

124003.00

6/10/2024



gray



PHOTO A - VIEW NORTH



PHOTO B - VIEW NORTHEAST



PHOTO C - VIEW EAST



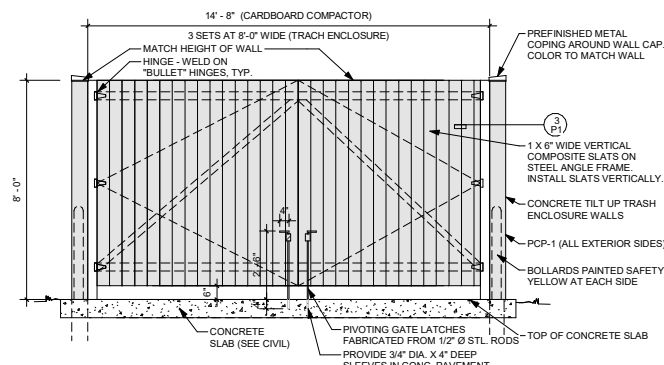
PHOTO D - VIEW SOUTH



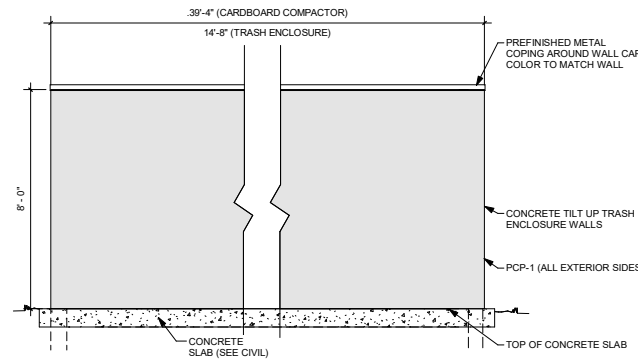
PHOTO E - VIEW SOUTHWEST



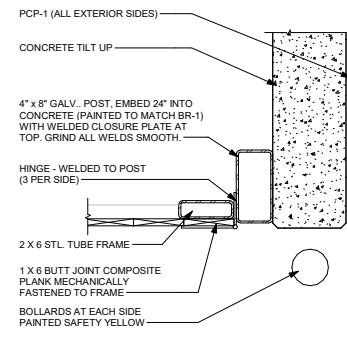
PHOTO F - VIEW WEST



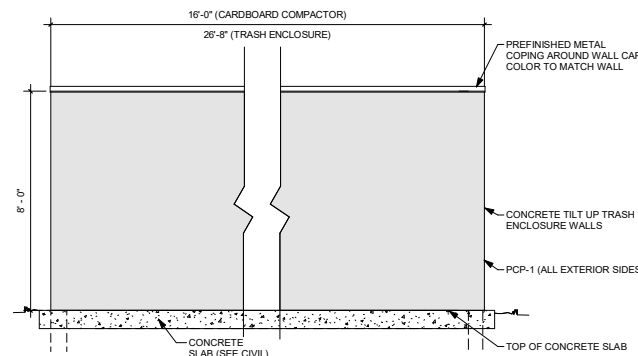
TRASH COMPACTOR & ENCLOSURE GATE



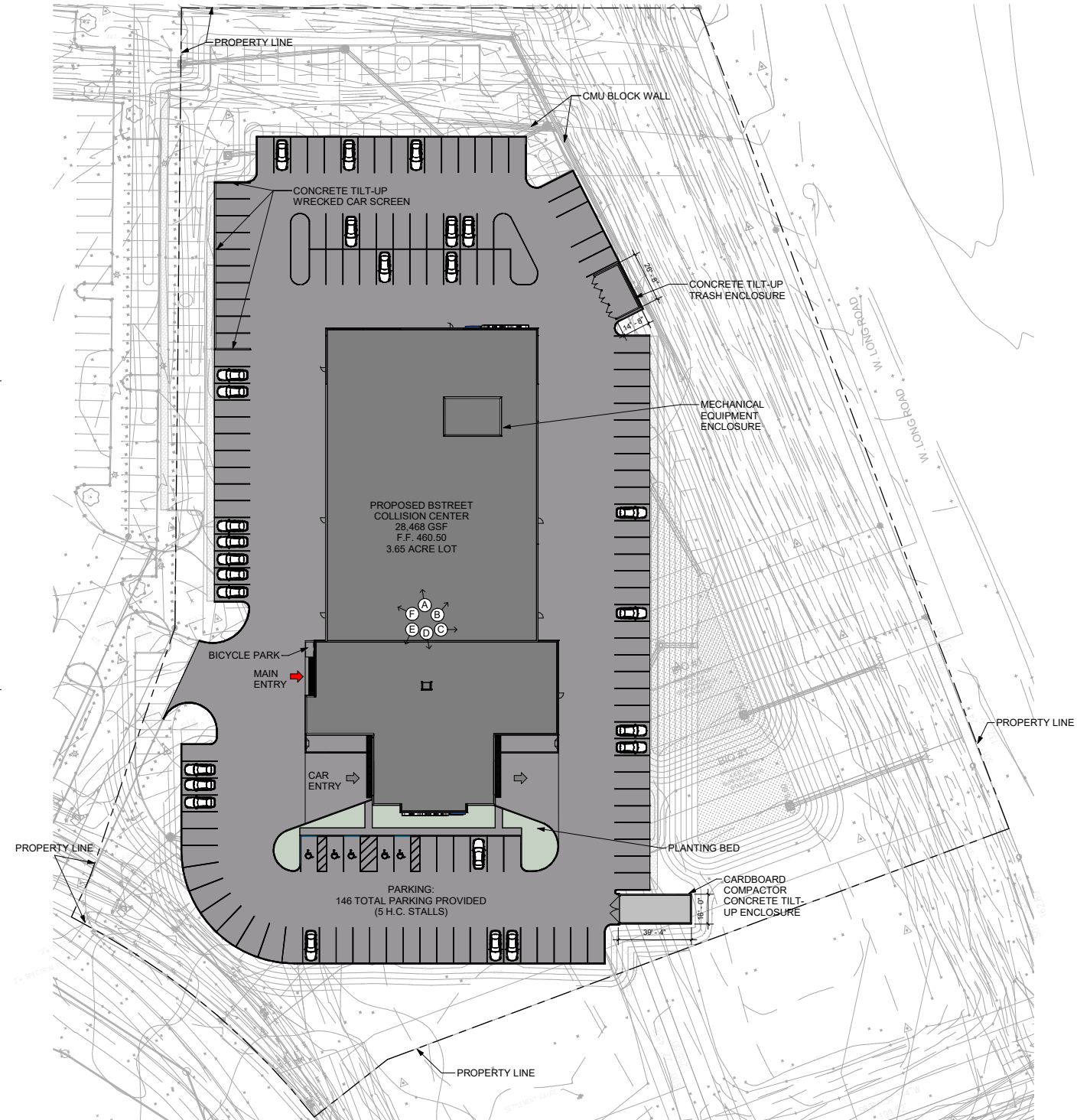
TRASH COMPACTOR & ENCLOSURE GATE SIDE ELEVATIONS



TRASH ENCLOSURE JAMB



TRASH COMPACTOR & ENCLOSURE GATE REAR ELEVATIONS



PARKING LIGHT FIXTURE

BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

SITE PLAN, PHOTOS
& SCREEN
1"=30'-0"

124003.00

5/30/2024



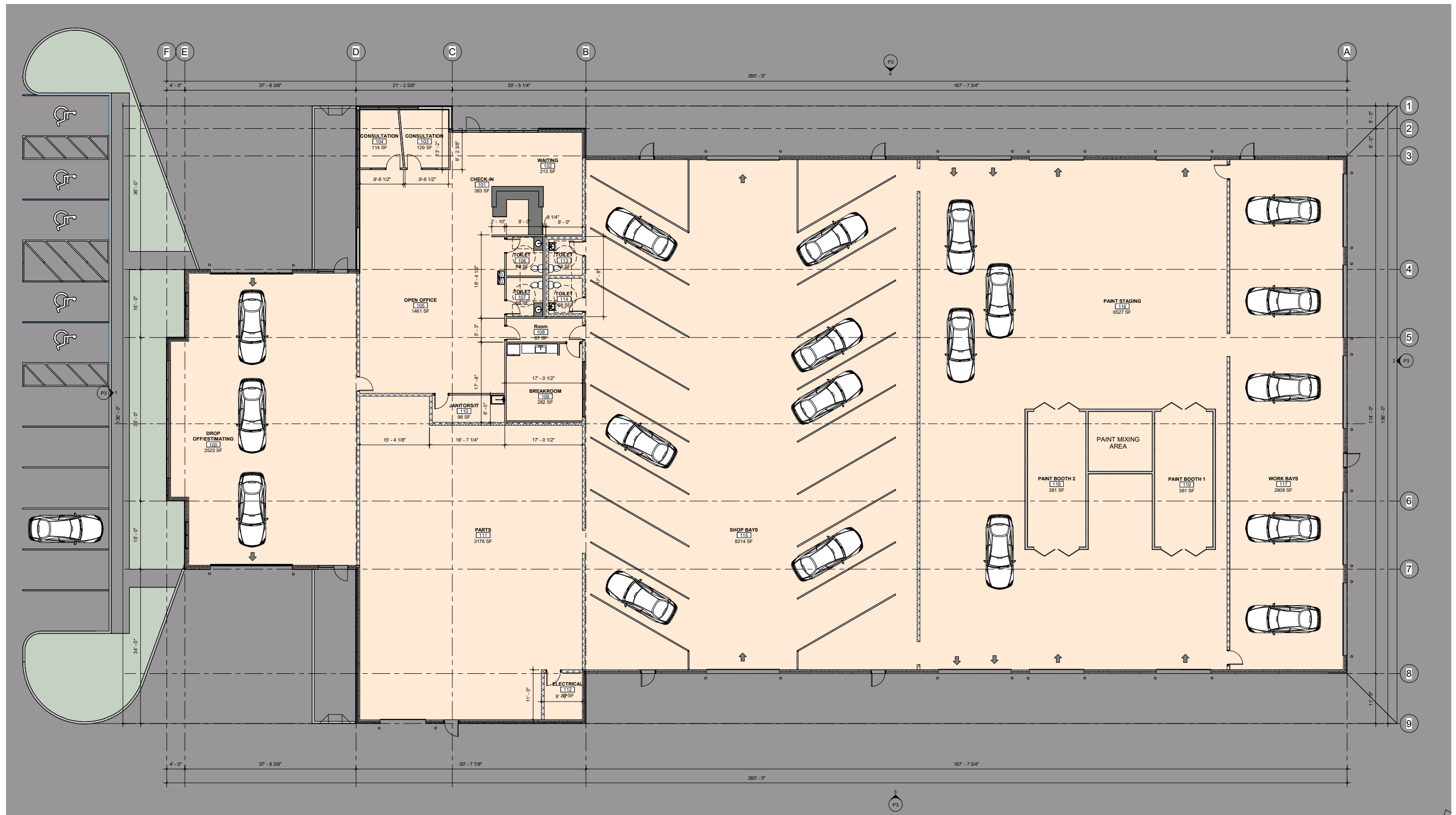
gray



TRUE NORTH



PLAN NORTH



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

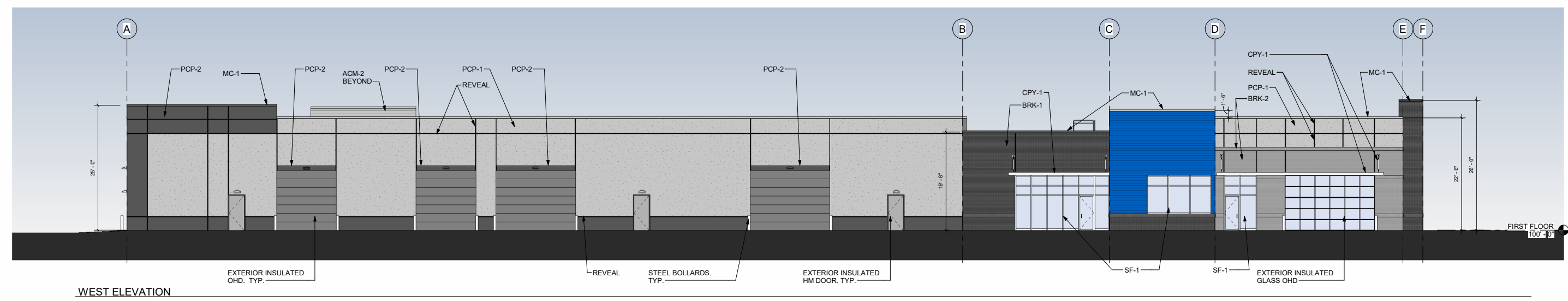
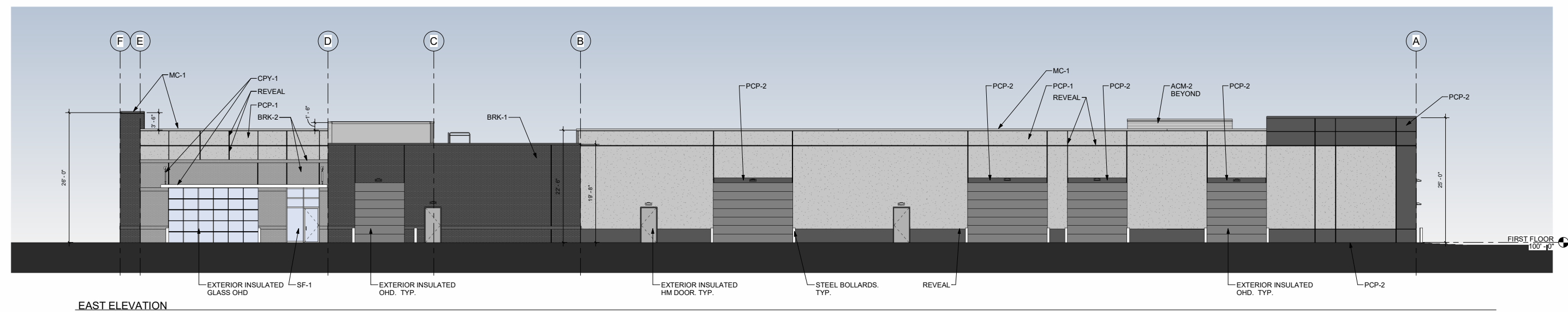
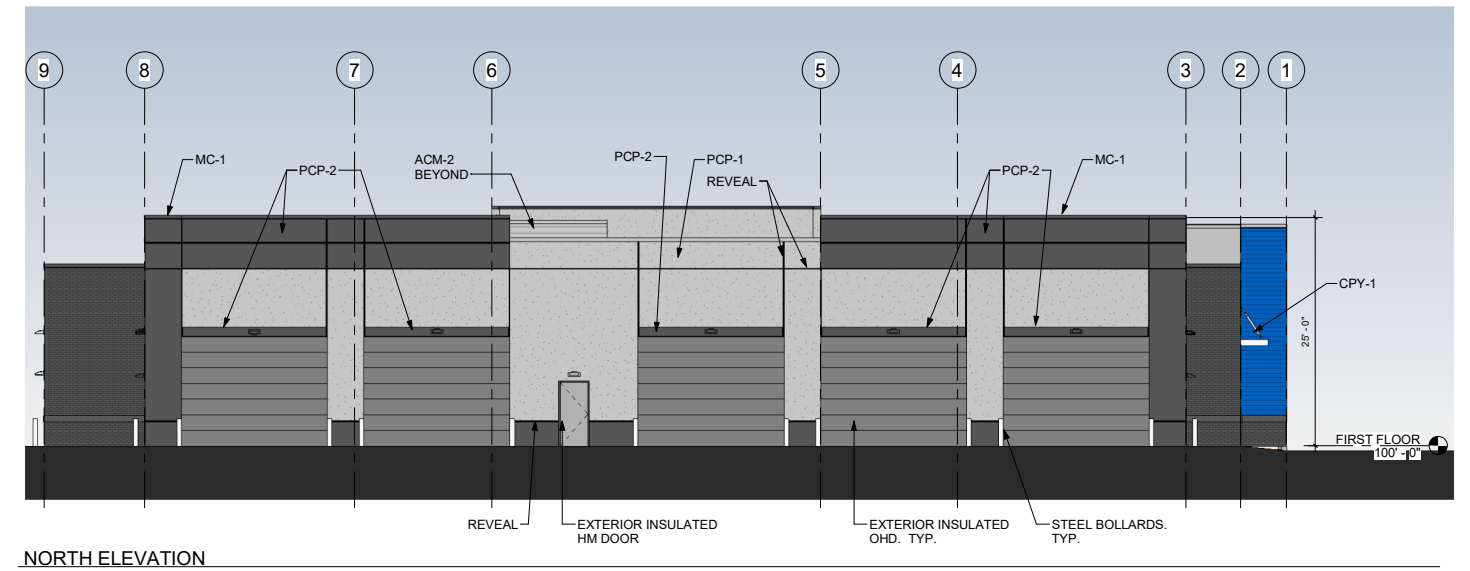
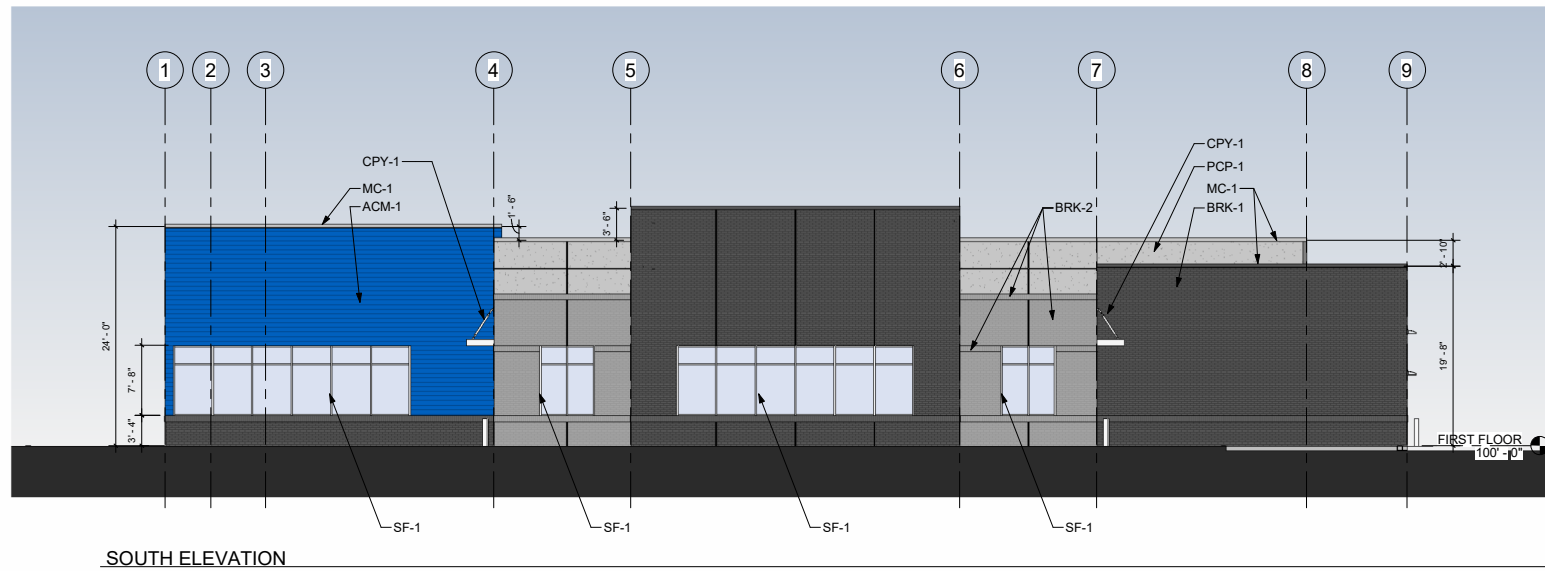
FLOOR PLAN
1/8"=1'-0"

124003.00

5/30/2024



gray



BSTREET COLLISION CENTER, CHESTERFIELD

714 Long Road Crossing Drive
Chesterfield, MO 63005

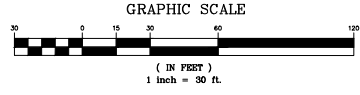
BUILDING
ELEVATIONS
1/8"=1'-0"

124003.00

5/30/2024



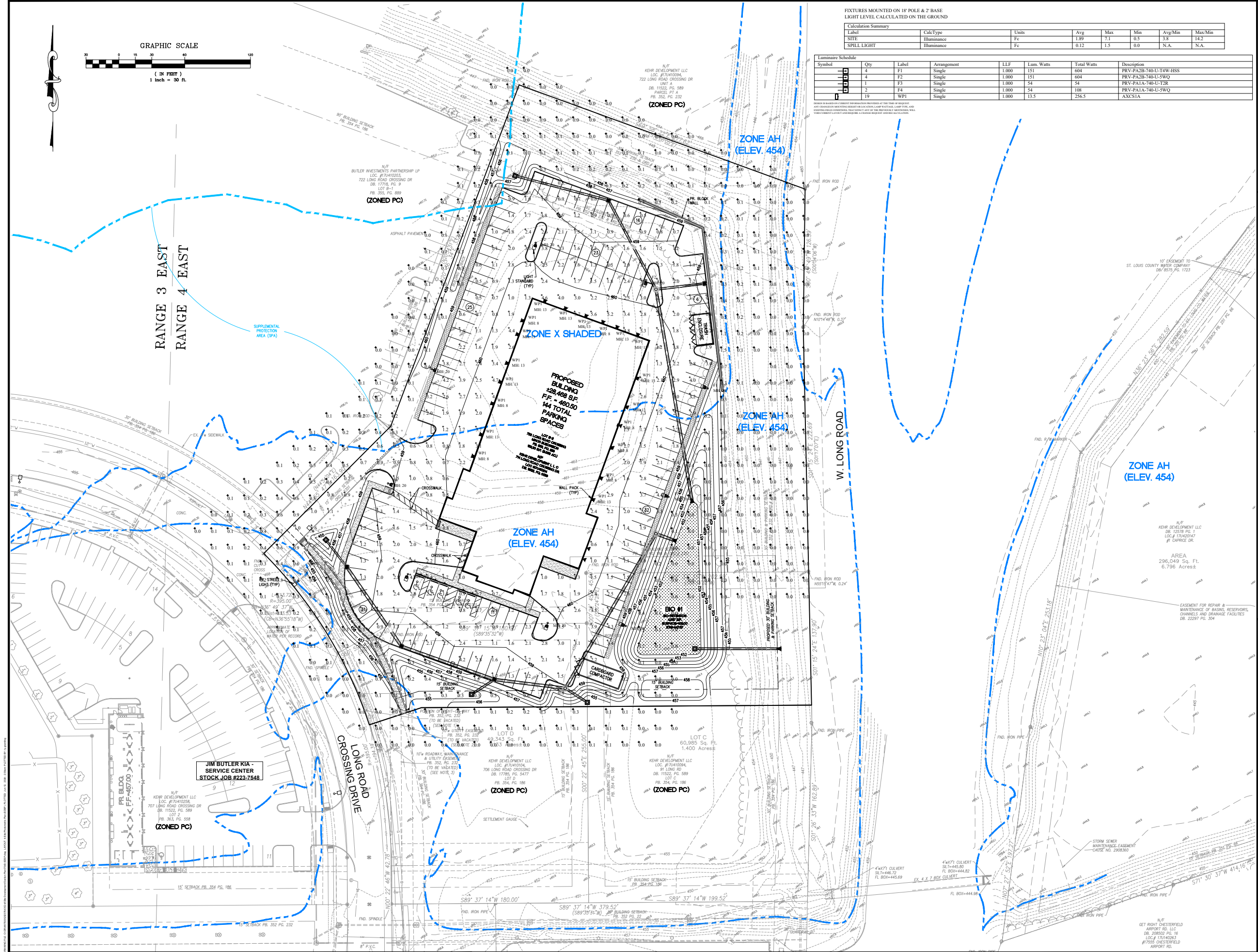
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FIXTURES MOUNTED ON 18' POLE & 2' BASE
LIGHT LEVEL CALCULATED ON THE GROUND

Label	Calc Type	Units	Avg	Max	Min	Avg/Mn	Max/Mn
SITE	Illuminance	Fc	1.89	7.1	0.5	3.8	14.2
SPILL LIGHT	Illuminance	Fc	0.12	1.5	0.0	N.A.	N.A.

Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
⊞	4	F1	Single	1.000	151	604	PRV-PA2B-740-U-14W-HSS
⊞	4	F2	Single	1.000	151	604	PRV-PA2B-740-U-5WQ
⊞	1	F3	Single	1.000	54	54	PRV-PA1A-740-U-2R
⊞	2	F4	Single	1.000	54	108	PRV-PA1A-740-U-5WQ
⊞	19	WPI	Single	1.000	13.5	256.5	AXCS1A



PREPARED BY:
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chestnutfield Business Parkway
St. Louis, MO 63103
TEL: 314.433.2000
FAX: 314.433.2001
e-mail: general@stockinc.com
Web: www.stockinc.com

SITE DEVELOPMENT SECTION PLAN FOR:
B STREET COLLISION CENTER

714 LONG ROAD CROSSING DR.
CHESTERFIELD, MISSOURI 63005



GEORGE M. STOCK E-2016
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 00096

- REVISIONS:
- 1 04/05/24 2024 SUBMITTAL #1
 - 2 05/09/24 2024 SUBMITTAL #2
 - 3 05/10/24 UPDATED PHOTOMETRICS

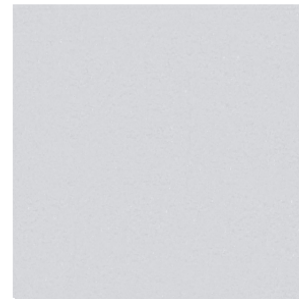
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DATE: 04-05-2024	JOB NO: 2023-1543
W.S.D. #: ---	BASE MAP #: 17-U
S.L.C. INT #: ---	HAT SUR. #: ---
REDC. #: ---	---
SHEET TITLE: SITE PHOTOMETRIC PLAN	
SHEET NO.: 4	



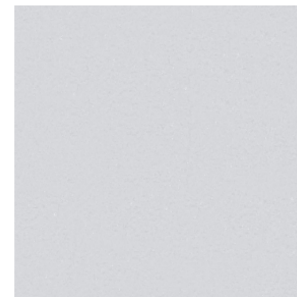
BRK-1



BRK-2



PCP-1



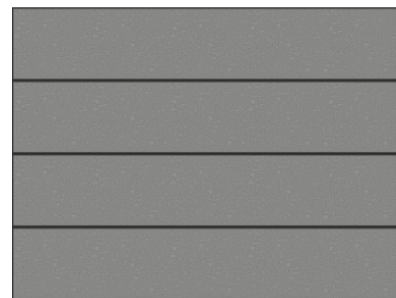
SF-1



PCP-2 (Tricorn Black SW 6258)



ACM-1
MC-1



ACM-2
MC-1



LAWRENCE FABRIC &
METAL STRUCTURES



MAPES CANOPY

EXTERIOR MATERIALS LIST

- ACM-1 ALUMINUM COMPOSITE PANEL WALL SYSTEM
MANUFACTURER: ALPOLIC
COLOR: SHB BLUE
 - ACM-2 ALUMINUM COMPOSITE PANEL WALL SYSTEM
MANUFACTURER: ALPOLIC
COLOR: MICA MFS GRAY
 - BRK-1 THIN VENEER FACE BRICK CAST INTO INSULATED PRECAST PANEL
MANUFACTURER: INTERSTATE BRICK
COLOR: MIDNIGHT BLACK
TEXTURE: WIRECUT
 - BRK-2 THIN VENEER FACE BRICK CAST INTO INSULATED PRECAST PANEL
MANUFACTURER: INTERSTATE BRICK
COLOR: PLATINUM
TEXTURE: WIRECUT
 - MC-1 PREFINISHED METAL COPING AND SHEET METAL FLASHING
MANUFACTURER: BERRIDGE MFG.
COLOR: MATCH COLOR OF PANEL BELOW
 - PCP-1 INSULATED PRECAST CONCRETE PANEL (NON INSULATED AT THE TRASH AND CARDBD COMP)
MANUFACTURER: PAINT: SHERWIN-WILLIAMS
COLOR: SW7071
TEXTURE: SANDBLASTED
 - PCP-2 INSULATED PRECAST CONCRETE PANEL (NON INSULATED AT THE TRASH AND CARDBD COMP)
MANUFACTURER: PAINT: SHERWIN-WILLIAMS
COLOR: SW7019 GALUNTLET GRAY
TEXTURE: SANDBLASTED
 - SF-1 ALUMINUM STOREFRONT SYSTEM
MANUFACTURER: KAWNEER TRU-FAB VERSAGLAZE 451-T
COLOR: CLEAR ANODIZED ALUMINUM
 - CPY-1 PREFABRICATED OPEN OR CLOSED METAL CANOPY WITH TURNBUCKLES
MANUFACTURER: MAPES OR LAWRENCE FABRIC & METAL STRUCTURES CANOPY
COLOR: CLEAR ANODIZED ALUMINUM
- NOTE: ALL MATERIALS SUBJECT TO APPROVED EQUAL OR SUBSTITUTIONS AS DEVELOPMENT PROGRESSES.

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Prevail Discrete LED

Area / Site Luminaire

Product Features



Product Certifications



Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3, 4](#)
- Optical Configurations [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6, 7](#)
- Control Options [page 8](#)

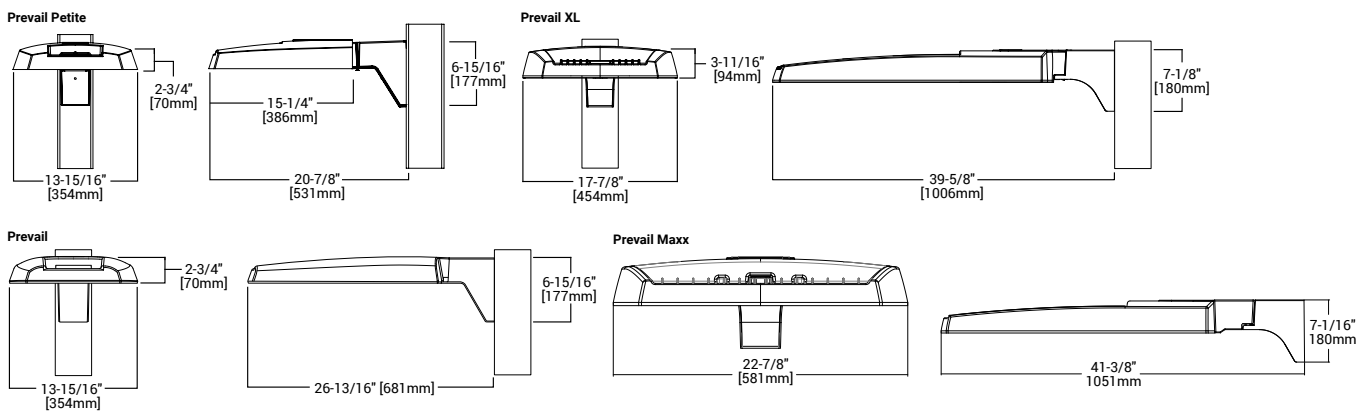
Quick Facts

- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinX

Dimensional Details




NOTES:
 1. Visit <https://www.designlights.org/search/> to confirm qualification. Not all product variations are DLC qualified.
 2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

SAMPLE NUMBER: PRV-XL-PA4B-740-U-T4W-BZ

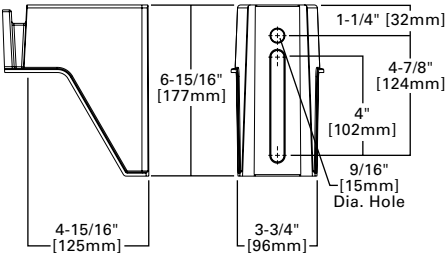
Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish		
	Configuration	Drive Current ⁴							
PRV-P =Prevail Petite BAA-PRV-P =Prevail Petite BAA Buy American Act Compliant ³ TAA-PRV-P =Prevail Petite TAA Trade Agreements Act Compliant ³	PA1 =1 Panel, 24 LED Rectangle	A =400mA Nominal B =700mA Nominal C =950mA Nominal D =1200mA Nominal	740 =70CRI, 4000K 730 =70CRI, 3000K 750 =70CRI, 5000K 8540 =85CRI, 4000K	U =Universal, 120-277V H =High Voltage, 347-480V 1=120V 2=208V 3=240V 4=277V 8=480V ⁵ 9=347V DV =DuraVolt, 277-480V ^{5,6}	T2R =Type II Roadway T2U =Type II Urban T3 =Type III T4W =Type IV Wide 5WQ =Type V Square Wide	SA =QM Standard Versatile Arm MA =QM Mast Arm FMA =Fixed Mast Arm ²⁷ WM =QM Wall Mount Arm ADJA-WM = Adjustable Arm - Wall Mount ²⁹ ADJA =Adjustable Arm - Pole Mount ²⁹ ADJS =Adjustable Arm - Slipfitter, 3" vertical tenon ²⁹ SP2 =Adjustable Arm - Slipfitter, 2 3/8" vertical tenon ^{27, 29}	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White		
PRV =Prevail BAA-PRV =Prevail BAA Buy American Act Compliant ³ TAA-PRV =Prevail TAA Trade Agreements Act Compliant ³	PA1 =1 Panel, 24 LED Rectangle PA2 =2 Panels, 48 LED Rectangles	A =700mA Nominal B =950mA Nominal							
PRV-XL =PRV XL BAA-PRV-XL =Prevail XL BAA Buy American Act Compliant ³ TAA-PRV-XL =Prevail XL TAA Trade Agreements Act Compliant ³	PA3 =3 Panels, 72 LED Rectangles PA4 =4 Panels, 96 LED Rectangles	A =750mA Nominal B =950mA Nominal							
PRV-M =Prevail Maxx BAA-PRV-M =Prevail Maxx BAA Buy American Act Compliant ³ TAA-PRV-M =Prevail Maxx TAA Trade Agreements Act Compliant ³	PA6 = 6 Panels, 144 LED Rectangles	A =600mA Nominal B =800mA Nominal C =1000mA Nominal D =1200mA Nominal							
Options (Add as Suffix)			Accessories (Order Separately) ^{20, 21}						
10K =10kV UL 1449 Fused Surge Protective Device 20MSP =20kV MOV Surge Protective Device 20K =20kV UL 1449 Fused Surge Protective Device F =Single Fuse (Used with Voltages 120, 277 or 347V) FF =Double Fuse (Used with Voltages 208, 240 or 480V) FADC =Field Adjustable Dimming Controller ³⁰ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right CC =Coastal Construction finish ⁹ HSS =House Side Shield (Factory Installed) ⁷ HA =50°C High Ambient Temperature ⁸ PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ¹⁰ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁰ MS/DIM-L08 =Motion Sensor for Dimming Operation, Up to 8' Mounting Height ^{11, 12, 13, 22} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{11, 12, 22} MS/DIM-L40 =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{11, 12, 13} SPB1 =Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height ^{11, 14, 22} SPB2 =Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height ^{11, 14, 22, 28} SPB4 =Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height ^{11, 14, 28}			WPS2XX =Wavelinx Pro, Dimming Motion, SR Driver and Daylight, WAC Programmable, 7' - 15' Mounting Height ^{11, 12, 15, 16, 17, 22} WPS4XX =Wavelinx Pro, Dimming Motion, SR Driver and Daylight, WAC Programmable, 15' - 40' Mounting Height ^{11, 12, 15, 16, 17, 22, 28} (See Table Below)=LumenSafe Integrated Network Security Camera ^{18, 19}		PRVSA-XX =Standard Arm Mounting Kit ²² PRVMA-XX =Mast Arm Mounting Kit ²² PRVWM-XX =Wall Mount Kit ²² PRV-ADJA-XX =Adjustable Arm - Pole Mount Kit ²² PRV-ADJS-XX =Adjustable Arm - Slipfitter Kit ²² PRV-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²² PRVXLSA-XX =Standard Arm Mounting Kit ²⁸ PRVXLMA-XX =Mast Arm Mounting Kit ²⁸ PRVXLWM-XX =Wall Mount Kit ²⁸ PRV-XL-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁸ PRV-XL-ADJA-WM-XX = Adjustable Arm - Wall Mount Kit ²⁸ PRV-XL-ADJS-XX = Adjustable Arm - Slipfitter Kit ²⁸ PRV-M-ADJA-XX =Adjustable Arm - Pole Mount Kit ²⁷ PRV-M-ADJS-XX =Adjustable Arm - Slipfitter Kit ²⁷ PRV-M-ADJA-WM-XX =Adjustable Arm - Wall Mount Kit ²⁷ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon			MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon SRA238 =Tenon Adapter from 3" to 2-3/8" PRV/DIS-FDV =Full Drop Visor ²³ PRVXL/DIS-FDV =Full Drop Visor ¹⁸ HSS-VP =House Side Shield Kit, Vertical Panel ^{7, 24} HSS-HP =House Side Shield Kit, Horizontal Panel ^{7, 24} VGS-ARCH = Panel Drop Shield, Short VGL-ARCH = Panel Drop Shield, Long OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁵ WOLC-7P-10A =WaveLinX Outdoor Control Module (7-PIN) ²⁴ WPS2-XX =WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{15, 16, 17, 22} WPS4-XX =WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{15, 16, 17, 22, 28}	
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WPS13001EN for additional support information. 3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to www.designlights.org website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables. 5. 480V not to be used with ungrounded or impedance grounded systems. 6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information. 7. House Side Shield not for use with 5WQ distribution. 8. Not available with PATD light engine in Petite housing (PRV-P). 9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used. 11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB). 12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage. 13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately. 14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details. 15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 16. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 17. Replace XX with sensor color (WH, BZ or BK). 18. Only available in PRV-XL configurations. 19. Not available with High Voltage (H, DV, 8 or 9) or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 20. Replace XX with paint color. 21. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 22. Not for use with PRV-XL or PRV-M configurations. 23. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P. 24. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details. 25. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information. 26. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V. 27. Only available for PRV-M configurations. 28. Only for use with PRV-XL. 29. Fixed for PRV-M. 30. Cannot be used with PR7 or other motion response control options.									

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

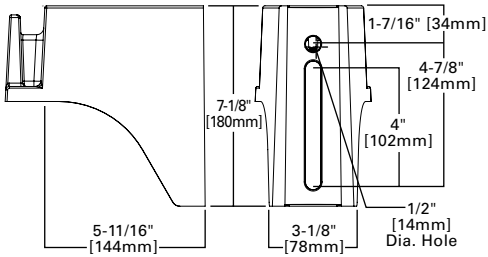
Product Family	Camera Type	Data Backhaul
L =LumenSafe Technology 	H =Dome Camera, High Res Z =Dome Camera, Remote PTZ	C =Cellular, Customer Installed SIM Card A =Cellular, Factory Installed AT&T SIM Card V =Cellular, Factory Installed Verizon SIM Card S =Cellular, Factory Installed Sprint SIM Card E =Ethernet Networking

Mounting Details

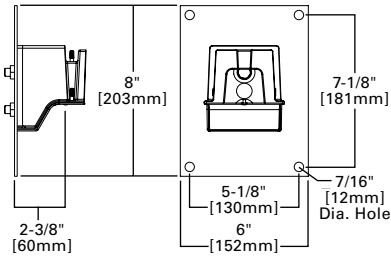
SA=QM Pole Mount Arm (PRV & PRV-P)



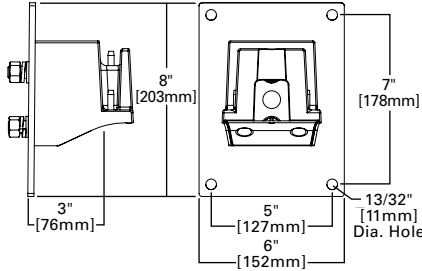
SA=QM Pole Mount Arm (PRV-XL)



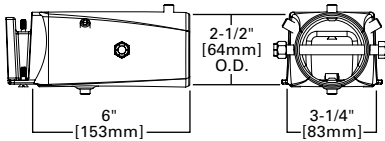
WM=QM Wall Mount Arm (PRV & PRV-P)



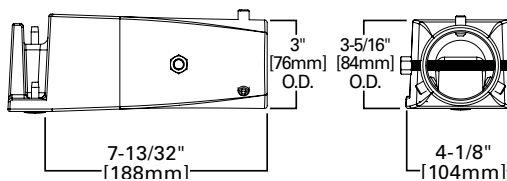
WM=QM Wall Mount Arm (PRV-XL)



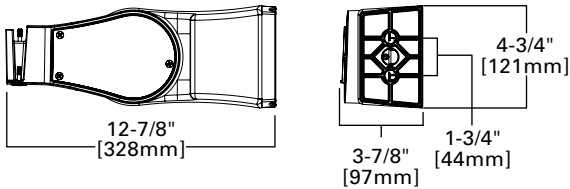
MA=QM Mast Arm (PRV & PRV-P)



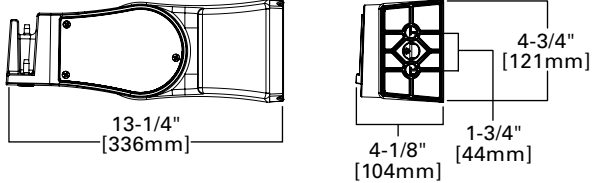
MA=QM Mast Arm (PRV-XL)



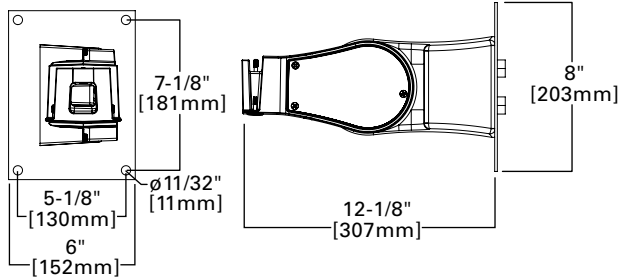
ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)



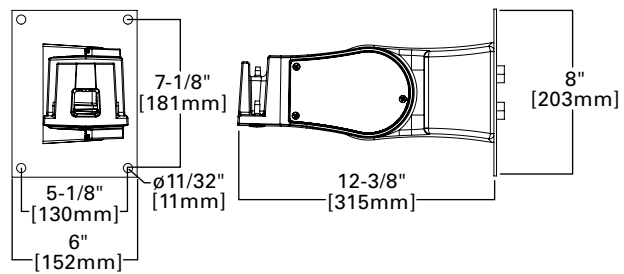
ADJA=Adjustable Arm Pole Mount (PRV-XL)



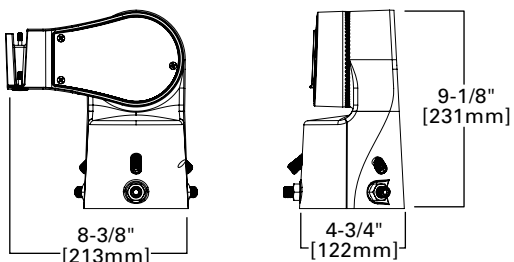
ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)



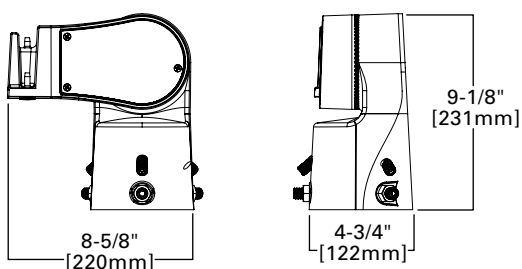
ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)



ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)

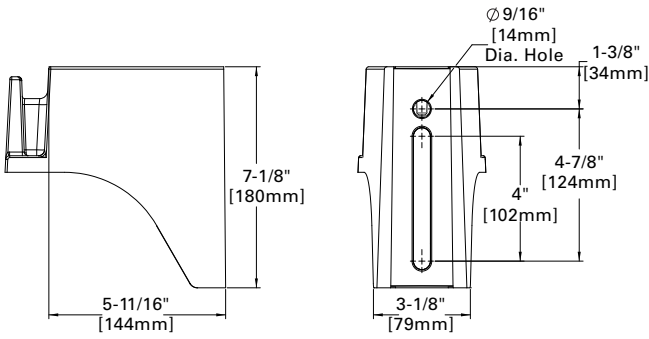


ADJS=Adjustable Slipfitter 3 (PRV-XL)

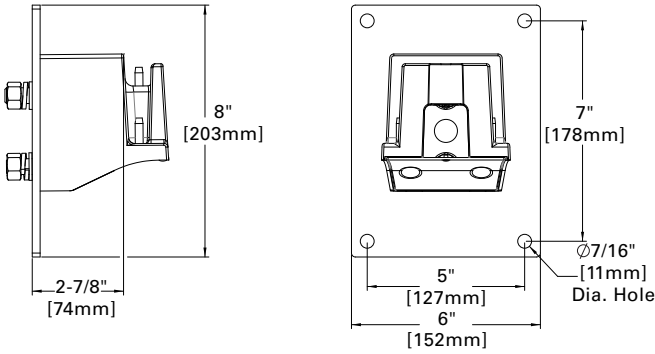


Mounting Details

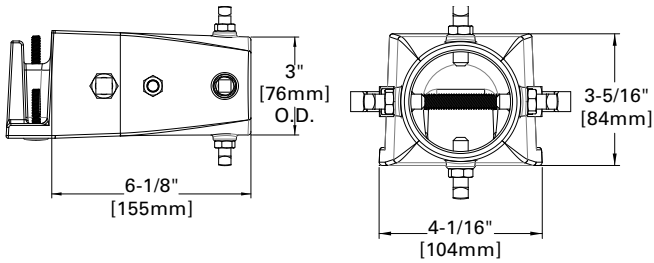
SA=QM Pole Mount Arm (PRV-M)



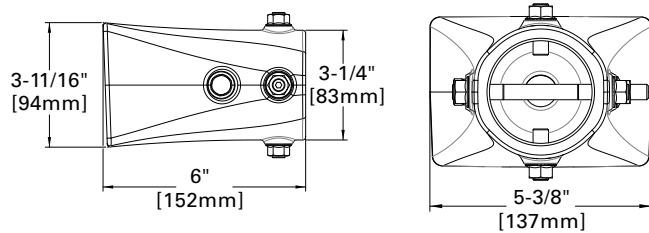
WM=QM Wall Mount Arm (PRV-M)



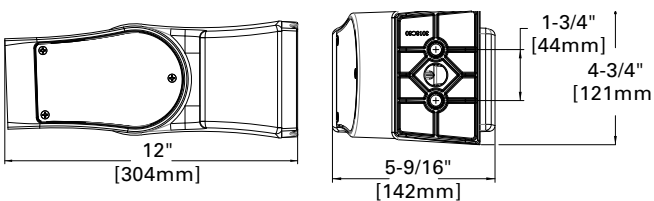
MA=QM Mast Arm (PRV-M)



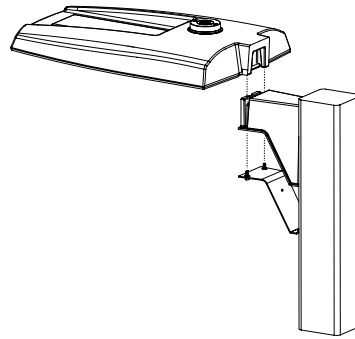
FMA=Fixed Mast Arm (PRV-M)



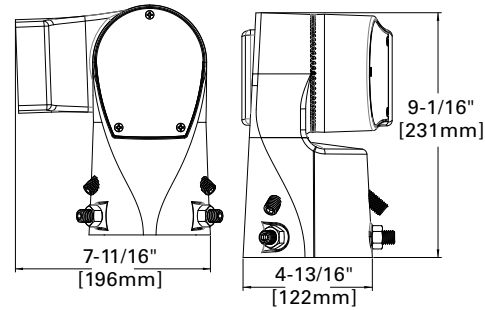
ADJA=Adjustable Pole Mount Arm (PRV-M)



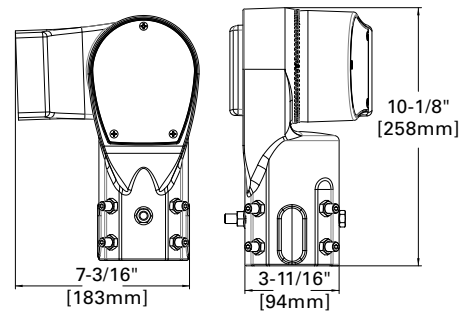
Versatile Mount System



ADJS=Adjustable Slipfitter (PRV-M)



SP2=Adjustable Slipfitter 2-3/8\" (PRV-M)



Mounting Details

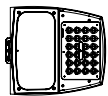
Mounting Configurations and EPAs

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

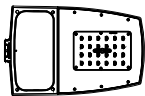
Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

Optical Configurations

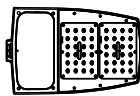
PRV-P-PA1X



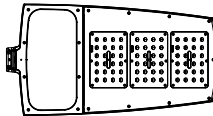
PRV-PA1X



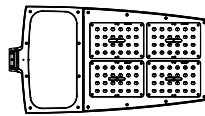
PRV-PA2X



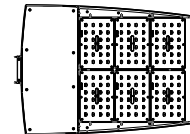
PRV-XL-PA3X



PRV-XL-PA4X

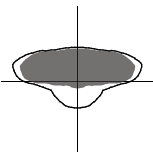


PRV-M-PA6X

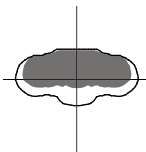


Optical Distributions

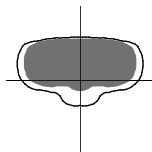
T2R
(Type II Roadway)



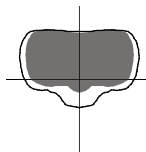
T2U
(Type II Urban)



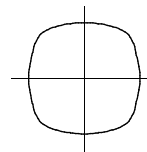
T3
(Type III)



T4W
(Type IV Wide)



5WQ
(Type V Square Wide)



■ = Distribution with House Side Shield (HSS)
□ = Optical Distribution

Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge

- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels; Comes pre-set to the highest position at the lumen output selected

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only
- Prevail and Prevail Petite: 3G vibration rated (all arms)
- Prevail XL Mast Arm: 3G vibration rated

- Prevail XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)

Typical Applications

- Parking lots, Walkways, Roadways and Building Areas

Shipping Data

- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty

- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

Energy and Performance Data

Power and Lumens

[View PRV-P IES files](#)

[View PRV IES files](#)

[View PRV-XL IES files](#)

Product Family	Prevail Petite				Prevail				Prevail XL				Prevail Maxx				
Light Engine	PA1A	PA1B	PA1C	PA1D	PA1A	PA1B	PA2A	PA2B	PA3A	PA3B	PA4A	PA4B	PA6A	PA6B	PA6C	PA6D	
Power (Watts)	31	53	72	93	54	74	113	151	172	234	245	303	274	366	457	544	
Drive Current (mA)	375	670	930	1200	670	930	720	970	750	980	785	970	600	800	1000	1200	
Input Current @ 120V (A)	0.26	0.44	0.60	0.78	0.45	0.62	0.93	1.26	1.44	1.95	2.04	2.53	2.30	3.05	3.83	4.54	
Input Current @ 277V (A)	0.12	0.20	0.28	0.35	0.21	0.28	0.41	0.55	0.62	0.85	0.93	1.12	0.99	1.30	1.62	1.94	
Input Current @ 347V (A)	0.10	0.17	0.23	0.29	0.17	0.23	0.33	0.45	0.52	0.70	0.74	0.90	0.78	1.05	1.32	1.60	
Input Current @ 480V (A)	0.07	0.13	0.17	0.22	0.12	0.17	0.24	0.33	0.39	0.52	0.53	0.65	0.58	0.76	0.95	1.14	
Distribution																	
Type II Roadway	4000K/5000K Lumens	4,505	7,362	9,495	11,300	7,605	9,896	15,811	19,745	24,718	30,648	34,067	39,689	41,611	52,596	61,921	67,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	147	139	132	121	141	134	141	131	144	131	139	131	152	144	135	125
	3000K Lumens ¹	4,103	6,705	8,647	10,291	6,926	9,012	14,399	17,982	22,511	27,912	31,025	36,145	37,896	47,900	56,392	61,837
Type II Roadway w/ HSS	4000K/5000K Lumens	3,727	6,091	7,855	9,349	6,006	7,815	12,487	15,594	19,521	24,204	26,094	31,334	32,874	41,553	48,919	53,642
	BUG Rating	B0-U0-G1	B0-U0-G2	B0-U0-G2	B1-U0-G2	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5
	Lumens per Watt	121	115	109	100	111	106	111	103	113	103	107	103	120	114	107	99
	3000K Lumens ¹	3,394	5,547	7,154	8,514	5,470	7,117	11,372	14,201	17,778	22,043	24,502	28,545	29,939	37,843	44,552	48,853
Type II Urban	4000K/5000K Lumens	4,496	7,347	9,476	11,277	7,597	9,886	15,795	19,724	24,692	30,616	34,031	39,647	41,372	52,294	61,565	67,509
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	141	134	141	131	144	131	139	131	151	143	135	124
	3000K Lumens ¹	4,095	6,691	8,630	10,271	6,919	9,003	14,384	17,963	22,488	27,882	30,992	36,107	37,678	47,625	56,068	61,481
Type II Urban w/ HSS	4000K/5000K Lumens	3,253	5,316	6,856	8,160	5,297	6,893	11,013	13,753	17,217	21,347	23,728	27,644	28,951	36,594	43,082	47,241
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-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
	Lumens per Watt	106	101	95	87	98	93	97	91	100	91	97	91	106	100	94	87
	3000K Lumens ¹	2,963	4,841	6,244	7,431	4,824	6,277	10,029	12,525	15,680	19,441	21,609	25,176	26,366	33,327	39,235	43,023
Type III	4000K/5000K Lumens	4,443	7,261	9,364	11,145	7,575	9,857	15,749	19,667	24,621	30,527	33,932	39,532	41,155	52,020	61,242	67,155
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	138	130	119	140	133	141	130	143	130	138	130	150	142	134	123
	3000K Lumens ¹	4,046	6,612	8,528	10,150	6,899	8,977	14,343	17,911	22,423	27,802	30,903	36,002	37,480	47,375	55,774	61,159
Type III w/ HSS	4000K/5000K Lumens	3,406	5,566	7,179	8,543	5,592	7,277	11,626	14,519	18,176	22,536	25,049	29,183	30,159	38,121	44,879	49,212
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	111	105	100	91	104	98	103	96	106	96	102	96	110	104	98	90
	3000K Lumens ¹	3,102	5,069	6,538	7,781	5,093	6,627	10,588	13,222	16,553	20,524	22,813	26,578	27,466	34,717	40,872	44,818
Type IV Wide	4000K/5000K Lumens	4,348	7,106	9,164	10,906	7,484	9,738	15,560	19,431	24,325	30,161	33,525	39,057	41,207	52,086	61,320	67,240
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G2	B2-U0-G3	B3-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	B4-U0-G5
	Lumens per Watt	142	135	127	117	139	132	139	129	141	129	137	129	151	142	134	124
	3000K Lumens ¹	3,960	6,471	8,346	9,932	6,816	8,869	14,170	17,696	22,153	27,468	30,531	35,570	37,528	47,435	55,845	61,236
Type IV Wide w/ HSS	4000K/5000K Lumens	3,318	5,422	6,993	8,323	5,420	7,053	11,268	14,072	17,617	24,843	24,279	28,286	30,005	37,926	44,650	48,961
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	103	97	89	100	95	100	93	102	106	99	93	110	104	98	90
	3000K Lumens ¹	3,022	4,938	6,369	7,580	4,936	6,423	10,262	12,816	16,044	19,892	22,111	25,760	27,326	34,540	40,664	44,589
Type V Square Wide	4000K/5000K Lumens	4,497	7,349	9,478	11,280	7,831	10,190	16,281	20,332	25,453	31,559	35,079	40,868	42,947	54,285	63,909	70,079
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	145	138	145	135	148	135	143	135	157	143	136	129
	3000K Lumens ¹	4,095	6,693	8,632	10,273	7,132	9,280	14,827	18,517	23,180	28,741	31,947	37,219	39,112	49,438	58,203	63,822

NOTES:

1. For 3000K or HSS BUG Ratings, refer to published IES files

Energy and Performance Data

House Side Shield Reference Table

Product Family		Prevail	Prevail		Prevail XL		Prevail Maxx
Light Engine		PA1	PA1	PA2	PA3	PA4	PA6
Rotated Optics	Standard	HSS-HP (Qty 1)	HSS-VP (Qty 1)	HSS-HP (Qty 2)	HSS-HP (Qty 3)	HSS-VP (Qty 4)	HSS-HP (Qty 6)
	L90 or R90 option	HSS-VP (Qty 1)	HSS-HP (Qty 1)	HSS-VP (Qty 2)	HSS-VP (Qty 3)	HSS-HP (Qty 4)	HSS-VP (Qty 6)

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

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

FADC Settings

FADC Postion	Percent of Typical Lumen Output
1	25%
2	48%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumen Maintenance

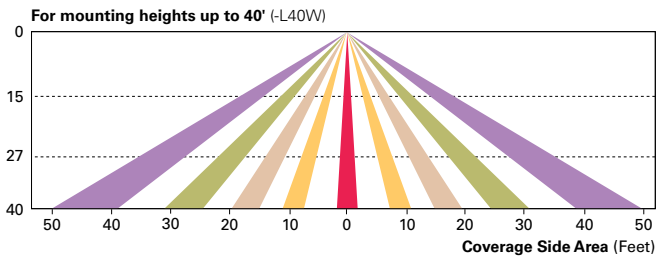
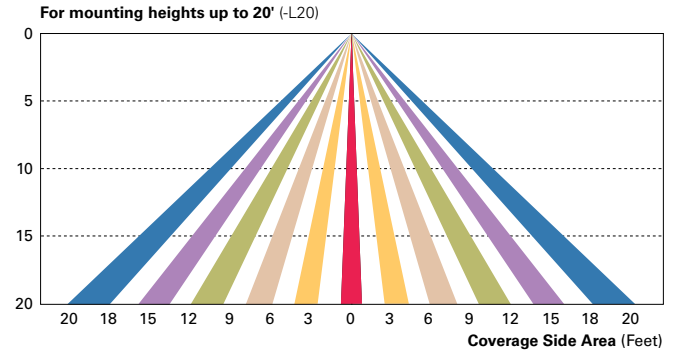
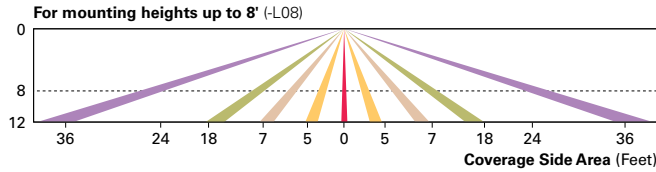
Ambient Temperature	TM-21 Lumen Maintenance (78,000 Hours)	Theoretical L70 (Hours)
Up to 50°C	96.76%	> 896,000

Control Options

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacle.

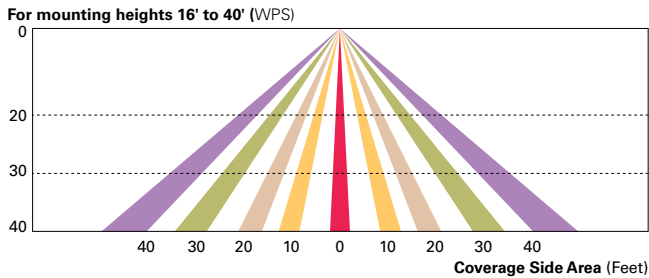
Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.



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

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

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



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

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Axcent

Wall Mount Luminaire

Product Features



Product Certifications



Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Product Specifications [page 4](#)
- Energy and Performance Data [page 4](#)
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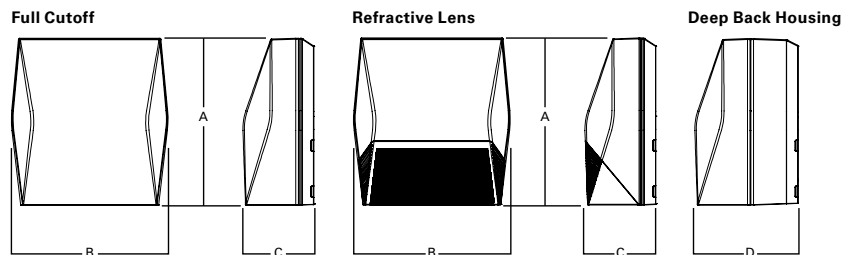
Quick Facts

- Available in 14W - 116W (1,800 - 16,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Connected Systems

- WaveLinX Lite
- Enlighted

Dimensional Details



Dimensional Data

	AXCS Small	AXCL Large
A	8" [202mm]	11-1/2" [292mm]
B	7-1/2" [190mm]	10-3/4" [273mm]
C	3-5/8" [94mm]	4-7/8" [124mm]
D	6-1/8" [155mm]	7-1/8" [181mm]

Ordering Information

SAMPLE NUMBER: AXCS1A-AP-347V

Domestic Preferences ²⁷	Model Series ¹	LED Color Temperature	Color	Options (Add as Suffix)
[Blank] =Standard BAA =Buy American Act TAA =Trade Agreements Act	Full Cutoff AXCS1A=14W AXCS2A=21W AXCS3A=27W AXCS4A=44W AXCS5A=52W AXCL6A=50W AXCL8A=66W AXCL10A=89W AXCL12A=116W Refractive Lens AXCS1ARL=14W AXCS2ARL=21W AXCS3ARL=27W AXCS4ARL=44W AXCS5ARL=52W AXCL6ARL=50W AXCL8ARL=66W AXCL10ARL=89W AXCL12ARL=116W	[Blank] =4000K, Neutral C=5000K, Cool W=3000K, Warm	[Blank] =Carbon Bronze (Standard) WT=Summit White BK=Black AP=Grey GM=Graphite Metallic DP=Dark Platinum	347V=347V ² 480V=480V ² PC1=Photocontrol 120V ^{3,4,5} PC2=Photocontrol 208-277V, 347V, 480V ^{4,5,6} PC=Photocontrol 120-277V, 347V, 480V ^{4,7,8} KKIT=Knuckle Floodlight Mount ⁷ TRNKIT=Trunnion Floodlight Mount SFKIT=Slipfitter Floodlight Mount PMAKIT=Pole Mount Arm WPS2XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{4,9,10,11} WPS4XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{4,9,10,11} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{4,9,12} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{4,9,12} MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height ^{4,9,13} MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height ^{4,9,13} MSP-L12=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height ^{4,9,13} MSP-L30=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height ^{4,9,13} CBP=Cold Weather Battery Pack ^{3,14,15,16,17,18} CBP-CEC=Cold Weather Battery Pack, CEC compliant ^{3,14,15,16,17,18} 10K=10kV/10kA Surge Protection HA=50°C High Ambient ^{15,19} GRF=Glare Reducing Lens ²⁰ AHD145=After Hours Dim, 5 Hours ^{5,21} AHD245=After Hours Dim, 6 Hours ^{5,21} AHD255=After Hours Dim, 7 Hours ^{5,21} AHD355=After Hours Dim, 8 Hours ^{5,21}
Accessories (Order Separately) ^{22,28}				
VS/AXCS-XX=Vandal Shield Axcent Small ^{7,23} VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor) ^{7,23} WG/AXCS=Wire Guard Axcent Small ⁷ WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor) ⁷ VS/AXCL-XX=Vandal Shield Axcent Large ^{5,23} VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor) ^{5,23} WG/AXCL=Wire Guard Axcent Large ⁵ WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor) ⁵ BB/AXC=Axcent Lumen Select Back Box, Carbon Bronze ²⁴ BB/AXC-PC=Axcent Lumen Select Back Box with PC, Carbon Bronze ^{24,25} BB/AXC-WT=Axcent Lumen Select Back Box, Summit White ²⁴ BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, Summit White ^{24,25}		KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small) ⁷ SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small) ⁷ TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small) ⁷ TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large) ⁵ SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large) ⁵ PMAKIT-XX=Pole Mount Kit ISHH-01=Integrated Sensor Programming Remote ²⁶ MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon WPS2-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height ^{10,11} WPS4-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height ^{10,11}		
<p>NOTES:</p> <ol style="list-style-type: none"> DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages. Not available in 347 or 480 VAC. Button photocontrol and any motion sensor (MSP or LWR) not offered together. Only available on AXCL6-AXCL12 models. Used with 277, 347, and 480 VAC options. Only available on AXCS1-AXCS5 models. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information. Uses deep back housing. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more Wavelinx application information. Replace XX with sensor color (WH, BZ, or BK). Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information. The ISHH-01 accessory is required to adjust parameters. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models. Not available with AXCS5 or AXCL12 models. Uses deep back housing for AXCS1, AXCL2, AXCS3, and AXCS4 models. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4. CBP cannot be used with PC and motion sensor (MSP or LWR). CBP can be used with PC or motion sensor (MSP or LWR). Can not be ordered with CBP or PC options. Use dedicated IES files on product website for lumen values and distributions. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information. Replace XX with color designation. For use with full cutoff lens configurations only. Lumen Select functionality not available in conjunction with any motion sensor option (MSP or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP or LWR). Photocell only operates at 120-277V input voltages. Not for use with 347 or 480V systems. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative for more information. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC.PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 				

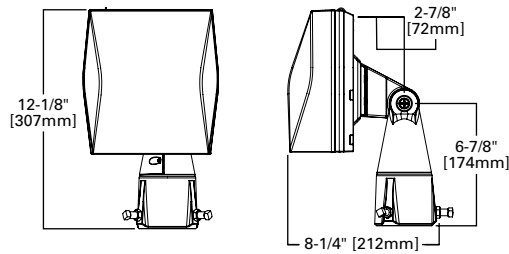
Stock Ordering Information

Model Series ¹			
Full Cutoff		Refractive Lens	
AXCS1A=14W	AXCL10A=102W	AXCS1ARL=14W	AXCL10ARL=89W
AXCS2A=21W	AXCL12A=123W	AXCS2ARL=21W	AXCL12ARL=116W
AXCS3A=27W	AXCL6A-347V=50W	AXCS3ARL=27W	AXCL6ARL-347V=50W
AXCS4A=44W	AXCL8A-347V=66W	AXCS4ARL=44W	AXCL8ARL-347V=66W
AXCS5A=52W	AXCL10A-347V=89W	AXCS5ARL=52W	AXCL10ARL-347V=89W
AXCL6A=56W	AXCL12A-347V=116W	AXCL6ARL=50W	AXCL12ARL-347V=116W
AXCL8A=72W		AXCL8ARL=66W	

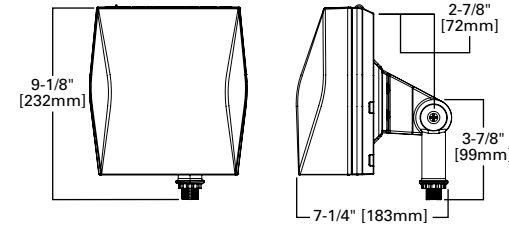
Note: All stock configurations are 4000K color temperatures, standard Carbon Bronze finish, and wall mount configuration.

Mounting Details

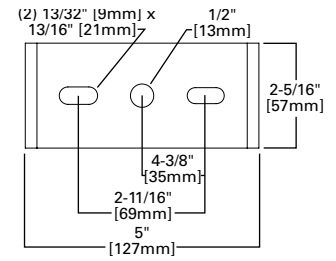
Slipfitter Mount (Small)
Tenon OD: 2-3/8" | EPA: 0.60



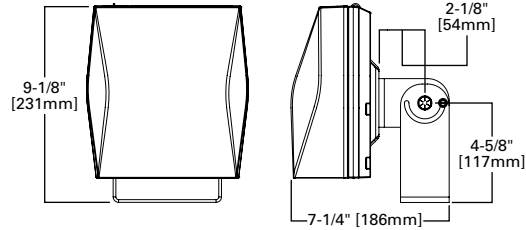
Knuckle Mount (Small)



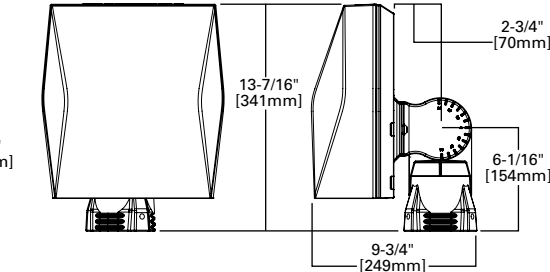
Trunnion Mount Detail



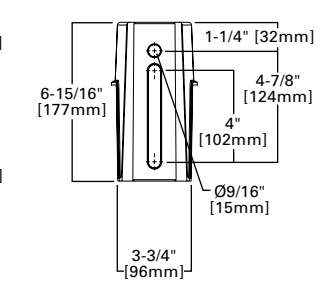
Trunnion Mount (Small)



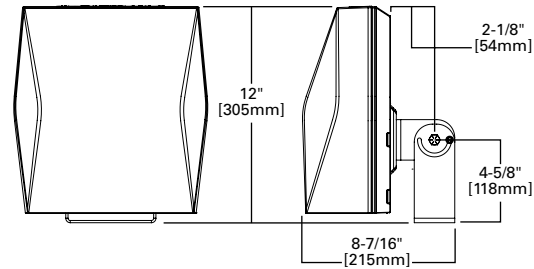
Slipfitter Mount (Large)
Tenon OD: 2-3/8" to 2-7/8" | EPA: 1.10



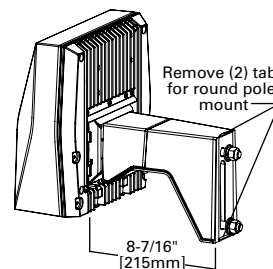
Pole Mount Arm Drill Pattern



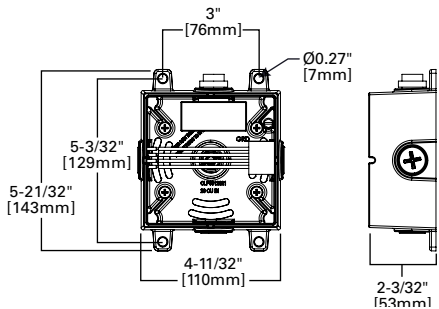
Trunnion Mount (Large)



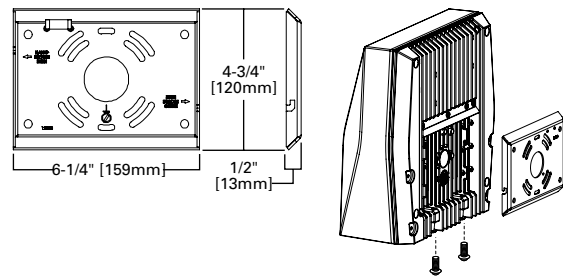
Pole Mount Arm (Large)
EPA: 1.10



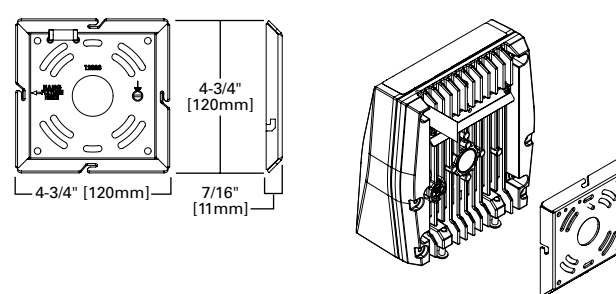
Lumen Select Back Box



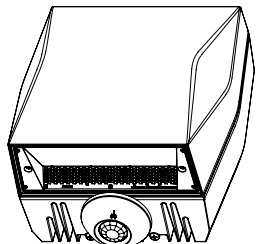
Wall Mount Plate Detail (Large)



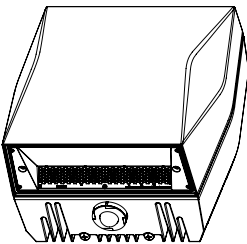
Wall Mount Plate Detail (Small)



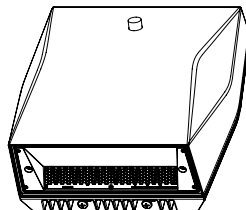
Enlighted Sensor



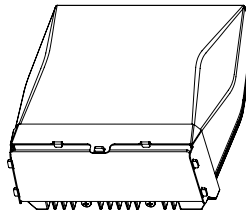
Occupancy Sensor



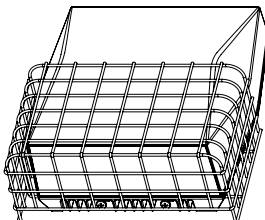
Button Photocontrol



Vandal Shield



Wire Guard



Product Specifications

Construction

- Die-cast aluminum housing
- External back fin design extracts heat from the surface to thermally optimize design for longer luminaire life

Optics

- Dark Sky Approved (Fixed mount, Full cutoff, and 3000K CCT only)
- Silicone-sealed optical LED chamber
- Acrylic refractive or full cutoff lens options for Type IV distributions

Electrical

- Standard universal voltage (120-277V, 50/60Hz)
- Driver incorporates 6kV surge protection
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- <20% total harmonic distortion

- 0-10V dimming driver is standard with leads external to the fixture

Mounting

- Steel wedge mounting plate fits directly to 4" standard j-box or directly to wall with the "Hook-N-Lock" mechanism
- Stainless steel set screws
- Lumen Select Back Box accessory offers four 1/2" NPT conduit entry wire ways. Resistor Pack combinations allow field-dimming of 75% or 50% when connected to luminaire dimming leads
- Not suitable for indoor use when installed in inverted/uplight orientation

Emergency Egress

- Optional integral cold weather battery emergency egress includes emergency operation test switch, an AC-ON indicator light and a premium, maintenance-free battery pack

- The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

- Small fixture=5 lbs. [2.36 kgs.]
- Small with sensor or CBP=10 lbs. [4.40 kgs.]
- Large fixture=12 lbs. [5.45 kgs.]
- Large with sensor or CBP=17 lbs. [7.73 kgs.]
- Large with sensor & CBP=21 lbs. [9.54 kgs.]

Energy and Performance Data

Power and Lumens (Axcent Small)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A	AXCS5A
Power (Watts)		14	21	27	44	52
Input Current @ 120V (A)		0.12	0.18	0.23	0.37	0.43
Input Current @ 240V (A)		0.06	0.09	0.11	0.18	0.22
Input Current @ 277V (A)		0.05	0.08	0.10	0.16	0.19
Input Current @ 347V (A)		0.04	0.06	0.08	0.13	0.15
Input Current @ 480V (A)		0.03	0.04	0.06	0.09	0.11
Configuration						
Full Cutoff	4000K/5000K Lumens	1,806	2,561	3,537	5,520	6,300
	3000K Lumens	1,526	2,164	2,989	4,665	5,324
	BUG Rating	B1-U0-G0	B1-U0-G0	B1-U0-G0	B2-U0-G1	B2-U0-G1
Refractive Lens	4000K/5000K Lumens	1,915	2,716	3,704	5,858	6,699
	3000K Lumens	1,618	2,295	3,130	4,950	5,661
	BUG Rating	B1-U3-G2	B1-U3-G2	B1-U3-G2	B1-U4-G3	B1-U4-G3

Power and Lumens (Axcent Large)

Light Engine		AXCL6A	AXCL8A	AXCL10A	AXCL12A
Power (Watts)		50	66	89	115
Input Current @ 120V (A)		0.41	0.54	0.74	0.96
Input Current @ 240V (A)		0.21	0.27	0.37	0.48
Input Current @ 277V (A)		0.18	0.24	0.32	0.42
Input Current @ 347V (A)		0.14	0.19	0.26	0.33
Input Current @ 480V (A)		0.10	0.14	0.19	0.24
Configuration					
Full Cutoff	4000K Lumens	7,594	9,716	12,719	16,302
	5000K Rating	7,501	9,598	12,564	16,103
	3000K Lumens	6,502	8,319	10,890	13,958
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G2
Refractive Lens	4000K Lumens	7,809	10,331	13,665	16,637
	5000K Rating	7,714	10,205	13,498	16,434
	3000K Lumens	6,686	8,845	11,700	14,244
	BUG Rating	B1-U4-G4	B2-U5-G5	B2-U5-G5	B2-U5-G5

Energy and Performance Data

Power and Lumens (Small + CBP)

Light Engine		AXCS1A	AXCS2A	AXCS3A	AXCS4A
Power (Watts)		18	25	31	48
Input Current @ 120V (A)		0.15	0.21	0.26	0.40
Input Current @ 240V (A)		0.08	0.11	0.13	0.20
Input Current @ 277V (A)		0.07	0.09	0.11	0.18
Configuration					
Full Cutoff	4000K/5000K Lumens	629	587	647	570
	3000K Lumens	531	496	547	482
Refractive Lens	4000K/5000K Lumens	667	623	686	605
	3000K Lumens	563	526	580	511

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens (Large + CBP)

Light Engine		AXCL6A	AXCL8A	AXCL10A
Power (Watts)		54	70	93
Input Current @ 120V (A)		0.45	0.58	0.77
Input Current @ 240V (A)		0.22	0.29	0.38
Input Current @ 277V (A)		0.19	0.25	0.33
Configuration				
Full Cutoff	4000K/5000K Lumens	=141*10W=1410		
	3000K Lumens	122*10=1220		
Refractive Lens	4000K/5000K Lumens	151*10=1510		
	3000K Lumens	131*10=1310		

Note: Power and current based on full power consumption while CBP is charging. Lumen outputs are while operating in emergency mode only.

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Small)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCS1A*	13109741 or 13109939 or Other	74%	50%
AXCS2A*	13109698 or 13109938 or Other	74%	50%
AXCS3A*	13109697 or 13109937 or Other	74%	50%
AXCS4A*	13109695 or 13109936	75%	40%
AXCS4A*	13495299 or 13495470 or Other	72%	50%
AXCS5A*	13109652 or 13109935	75%	40%
AXCS5A*	13495471 or 13495472 or Other	72%	50%

Power and Lumens Multipliers
(Lumen Select Back Box + Axcent Large)

Configuration		~75% Nominal Output	~50% Nominal Output
Catalog Number	Material Number	Connect per Installation Instructions	
AXCL6A*	13645910 or 13645979	69%	47%
AXCL8A*	13645970 or 13645984	69%	47%
AXCL10A*	13645971 or 13645989	69%	47%
AXCL12A*	13645972 & 13645993	72%	49%

Lumen Maintenance (Axcent Small)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
Up to 3A		
25°C	90%	246,000
40°C	90%	225,000
50°C	89%	195,000
Up to 5A		
25°C	89%	240,000
40°C	88%	223,000
50°C	87%	186,000

Lumen Maintenance (Axcent Large)

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
Up to 8A		
25°C	89%	216,000
40°C	87%	192,000
50°C	86%	179,000
Up to 10A		
25°C	88%	199,000
40°C	86%	179,000
50°C	85%	162,000
Up to 12A		
25°C	85%	162,000
40°C	82%	138,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.97

Control Options

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

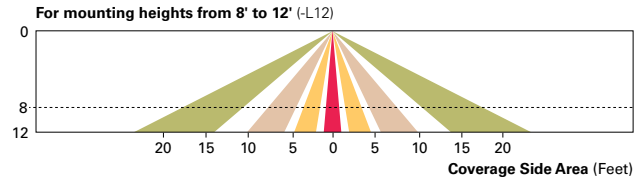
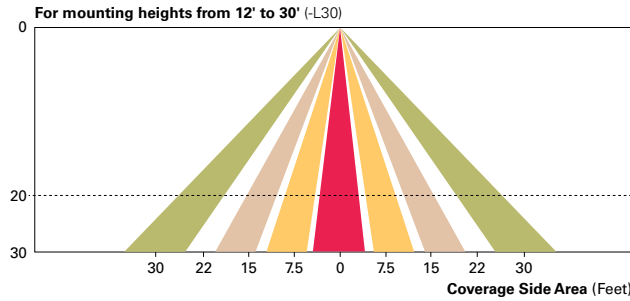
Photocontrol (PC1, PC2 and PC) Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

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 (MSP/DIM-LXX and MSP-LXX) These sensors are factory installed in the luminaire housing. When the MSP/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 MSP/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of ten minutes. The MSP-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity.

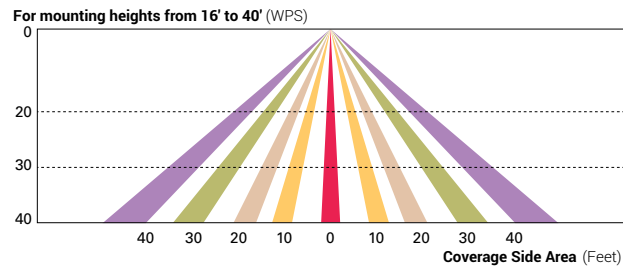
These occupancy sensors includes an integrated photocell that can be activated with the ISHH-01 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is ON. The ISHH-01 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-30'.



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

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.



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

