

Commercial
Development Design
Report

**La Crosse Station
No. 2**



January 14, 2022

City Required Forms:

- a. Application
- b. Commercial Design Checklist

Required Supporting Information:

- a. Site Plan
- b. Architecture Plan
- c. Building Elevations & Materials
- d. Exterior Lighting Diagram
- e. LEED Check List
- f. Photos



COMMERCIAL DEVELOPMENT DESIGN STANDARDS APPLICATION
 Planning Department • Phone 608.789.7512 • Fax 608 789.7318
<http://www.cityoflacrosse.org> Planning@cityoflacrosse.org

Permit No.:
Date:
Parcel No.:

STATUS:

OWNER	Name: CITY OF LA CROSSE, FIRE DEPARTMENT
	Address: 400 LA CROSSE STREET
	City: LA CROSSE
	Phone: 608-789-2489 Cell: Fax: E-mail:
ARCHITECT CONTRACTOR	Name: WENDEL COMPANIES / FIVE BUGLES DESIGN
	Address: 800 WISCONSIN STREET, BUILDING D04, SUITE 202
	City: EAU CLAIRE
	Phone: 715-832-4848 Cell: Fax: E-mail: LEYSNOGLE@WENDELCOMPANIES.COM
PROJECT	Check One: <input checked="" type="checkbox"/> Building <input type="checkbox"/> Addition <input type="checkbox"/> Alteration/Remodel
	Description of Work: NEW FIRE DEPARTMENT HEADQUARTERS AND STATION #2 FOR THE LA CROSSE FIRE DEPARTMENT; REPLACING THE EXISTING FIRE STATION #2. 20,680 SF FACILITY, TWO-STORIES, SLAB-ON-GRADE CONSTRUCTION. CMU STRUCTURE WITH BRICK, STONE AND METAL PANELS AS EXTERIOR FACADE. STATION INCLUDES: THREE DRIVE-THROUGH APPARATUS BAYS, LIVING QUARTERS AND APPARATUS SUPPORT SPACES ON FIRST FLOOR, DEPARTMENT ADMINISTRATION OFFICES ON THE SECOND FLOOR.
	Pre-application Meeting Date:
	Applying for Exception: <input type="checkbox"/> No <input type="checkbox"/> Yes (Include \$300 Check for Public Notification)
	Project Address: 1400 LA CROSSE STREET
PROPERTY	Zoning District: public / semi-public Parcel Number: 17-20247-30
	Address: 1400 LA CROSSE STREET Address same as property owner's address: <input type="checkbox"/>
	City: LA CROSSE State: WISCONSIN Zip Code: 54601
	Date Received: Review Date:
OFFICIAL USE ONLY	Exception Check: <input type="checkbox"/> Yes <input type="checkbox"/> No
	Required Information: <input type="checkbox"/> Site Plan <input type="checkbox"/> Architecture Plan <input type="checkbox"/> Landscape Plan <input type="checkbox"/> Building Elevations & Materials <input type="checkbox"/> Exterior Light Diagram <input type="checkbox"/> LEED Checklist <input type="checkbox"/> Photos

The applicant agrees that all design aspects and maintenance plans are in accordance with the requirements of Section 15.47 of the Code of Ordinances for the City of La Crosse. Application, the checklist, and seven (7) sets of required information must be submitted to the City Inspection Department prior to review and acceptance.

JENNIFER POLACEK

(PRINT) Architect/Engineer Name

Jennifer Polacek

Signature (Architect/Engineer)

1-14-2022

Date

Ken Gilliam

(Print) Owner Name

21. See -

Signature (Owner)

1-14-2022

Date

DESIGN REVIEW CHECKLIST

The checklist must be completed in full by the applicant prior to submission. Completed elements should be checked. Any elements that do not apply to your site or you are requesting an exception on, check the corresponding column and include notes. Items in italics are recommended actions but not required.

YES NO N/A NOTES

PARKING LOT DESIGN AND PARKING STANDARDS

C.2	No parking stall may be closer to the street than the building setback line or the building on the same parcel, whichever is farther from the street unless the applicant can demonstrate that there are no practical alternatives related specifically to the site.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HAVE REQUESTED AN ACCEPTATION FOR THE PARKING TO BE UP TO THE PROPERTY LINE DUE TO LIMITED SITE CAPACITY.
C.3	All points of ingress and egress will be evaluated by the City Traffic Engineer to determine if ingress and egress should be allowed directly to the street or via an alley.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.4	Parking areas shall be separated from primary buildings by a landscaped buffer.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.5	Minimum setback for parking stalls and drives is five (5) feet from all property lines with the exception of the alley (in order to accommodate landscaping or drainage swales). Parking for adjacent properties may be combined into continuous paved lots, eliminating the required setback at the shared property line, provided that 100% of the lost green space is replaced elsewhere on the parcel (e.g. with a 10' setback along the opposite lot line).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PARKING WILL BE WITHIN FIVE FEET OF PROPERTY LINE, WITH THE ACCEPTATION OF THE PARKING NOTED IN C.2
C.6	A parking lot for more than 12 vehicles shall incorporate at least 288 square feet of planting islands at least 8 feet in width (face of curb to face of curb). Planting islands may be either parallel to parking spaces or perpendicular to the parking spaces. As parking lot size increase, and additional planting island is required at the ratio of one planting island for every 20 automobile parking spaces. No less that 5 percent of the islands shall be interior to the parking lot.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.7	Landscaping buffers, green space, and planting islands must total a minimum of 10 percent of the lot.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.8	Buffers, setbacks, and planting islands are encouraged to be used for stormwater infiltration.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.9	All approaches, parking and vehicular circulation areas shall be paved and graded for proper stormwater management. The use of pervious pavement for stormwater infiltration is highly encouraged.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.10	For structures not needing approval by the Wisconsin Department of Commerce, parking spaces shall not be less than 8.5 feet in width and 17 feet in length. The full dimensions of this rectangle must be maintained in angled parking designs. Drive aisle widths vary depending upon the angle of parking space. The following minimum standards apply and shall be consistent with requirements of the City Engineering Department adopted standards: 45 degrees – 12'10" aisle 55 degrees – 13'7" aisle 65 degrees – 15'4" aisle 75 degrees – 17'10" aisle 90 degrees – 22' aisle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.11	Where maximums on parking ratios exist, parking surfaces and drive aisles shall be permitted to be increased in size by no more than five percent (5%), provided at least twenty-five percent (25%) of the parking lot and pedestrian sidewalks consist of paving blocks (plastic or concrete honeycomb grid) planted with grass.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.12	Parking lots shall be located on the same lot as the principal structure (unless it can be demonstrated that shared parking will be beneficial to multiple property owners and does not result in a "gap tooth" effect on a block face).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
C.13	Raised curbs, parking blocks or stops, decorative bollards and/or fences, trees and/or shrubs shall be utilized along the edge(s) of parking lots to prevent motor vehicles from parking on green space buffers, outdoor recreation space, bike parking areas, sidewalks and side and front yards. In the event the original protective measures are inadequate to preventing inappropriate parking, additional measures shall be taken.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.14a	Parking lot snow storage area(s) shall be designated in the parking lot and/or green space buffers.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.14b	Snow storage areas shall not be located near parking lot entrances and impede driver vision.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.14c	If these green space buffer(s) are no longer capable of storing snow, the property owner shall arrange for the excess snow to be removed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.14d	To the greatest extent possible, melting snow or ice should not drain over sidewalks or across neighboring properties.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.15	Light-colored and/or reflective surface coating should be considered to reduce the "heat island" effect of traditional asphalt parking lots.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.16	Environmentally-friendly paving materials and methods are encouraged, including but not limited to using recycled asphalt tires and roofing shingles as part of the mix or base.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.17	Porous paving materials such as paving blocks with decorative gravel, or properly spaced cobbles, brick, and natural stone with grass planted in between in small clusters and methods that reduce stormwater runoff are encouraged.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.18	The off-street parking provisions for all commercial development shall be in conformance with 15.04(G). Required off-street parking space, including access drives and aisles, shall not cover more than seventy-five percent (75%) of the lot area in which such off-street parking space is permitted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PEDESTRIAN CIRCULATION

D.2	There shall be a paved pedestrian route from the sidewalk or street to the main building entrance, and from the parking area to the nearest building entrance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D.3	Pedestrian routes shall be paved with concrete. Bituminous material shall not be allowed for pedestrian routes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
D.4	Porous paving materials and methods that reduce stormwater runoff is encouraged.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

BUILDING MECHANICAL SERVICE ELEMENTS

E.2	The design and location of the following items shall be indicated on building and/or site plans, illustrated with spec sheets as appropriate, and submitted with the Design Standards Checklist:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2a	utility meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2b	building mechanicals	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2c	trash and recycling containers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2d	bicycle parking	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2e	outdoor seating areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2f	solar and wind facilities	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E.2g	dish antennas (not permitted to hang off the side of buildings)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E.2h	transformers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.2i	back-up generators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
E.3	Service areas, utility meters, and building mechanicals shall not be located on the street side of the building, nor on the side wall closer than 10 feet to the street side of the building. The location of emergency back-up generators and transformers shall be coordinated between the City, developer and the utility company. Screening of meters, generators, transformers, and mechanicals is required when visible from the street with an approved screen device. Screening materials shall match building materials. Cable, conduit and phone line shall not be visible on the exterior with the exception of conduit running directly to the meter/utility boxes at the time of initial occupancy. Mailboxes are permitted within 10 feet of the front of the building if not visible from the street.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.4	Trash and recycling containers, including cans and dumpsters, shall have covers and be screened so as not to be visible from the street or from neighboring properties. Screening shall be one foot higher than the container but no higher than six feet; however, roofed enclosures may exceed this limit.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.5	If a building owner chooses to provide a trash receptacle and/or a smoking materials receptacle, the receptacle(s) shall be decorative if located at the entrance that faces a public street. These receptacles shall be screened from view and/or designed to fit with the architecture and materials of the building.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.6a	High energy gas appliances shall have the air intakes and exhaust vents located on the sides or rear of the building where they do not interfere with any sidewalks, are not likely to be blocked or damaged by pedestrian traffic, snow or the removal of snow, and away from any trees or shrubs that would be harmed by the exhaust heat and gases.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.6b	Window-mounted air conditioners shall not be permitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E.6c	PTAC air conditioner/heat pump units must be designed into the architecture of the building.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E.6d	If heat pumps or air conditioners are located on the ground, they shall be on one side or the rear of the building and screened with evergreens or decorative screening that matches or complements the exterior siding of the building, such that proper clearances are maintained for the manufacturer's warranty.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
E.6e	If heat pumps or air conditioners are located on the roof, they shall be placed, painted and/or screened so as to minimize the visual impact to the street.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.7a	Bicycle parking using bike racks specifically designed for bike parking shall be provided at one (1) space per 10 automobile parking spaces or one (1) space per 20 employees, whichever is greater, and should be located near building entries, shall not interfere with pedestrian circulation, and shall be well-lit. Bikes are not permitted to be stored, locked or chained on decks, patios, fences or any other exterior location other than a bike rack specifically designed for bike parking.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.7b	Bicycle parking (to accommodate four bicycles) shall be nominally at least nine (9) by six (6) feet or fifty-four (54) square feet and increase by the same ratio to accommodate the number of bike spaces.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
E.7c	The base for bike racks should be concrete to ensure their stability; however, the remaining bicycle parking area shall be porous paving materials (paving blocks with decorative gravel or wood mulch, or properly spaced cobbles, brick, and natural stone with grass planted in between in small clusters) to reduce stormwater runoff but shall not result in standing water. If an area for bike parking is designed using these standards, then up to 100 percent of the space taken for the bike parking shall count as green space.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
LANDSCAPING OPEN SPACE & PLANTINGS					
F.2	A landscape design and planting plan shall be prepared and submitted for all buildings. Landscape plans for developments shall be prepared and signed by a Landscape Architect, nurseryman, or professional site planner with educational training or work experience in land analysis and site plan preparation prior to submittal to the City.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CURRENT LANDSCAPING IS FOR SEEDING GRASS AND PROPER PLANTINGS IN STORMWATER PONDS. A FURTHER DETAILED LANDSCAPING PLAN MEETING THE BELOW CITY REQUIREMENTS WITH PROPOSED PLANTINGS WILL BE SUBMITTED FOR APPROVAL IN FUTURE.
F.2a	No building permit shall be issued until the required landscaping plan has been submitted and approved, and no certificate of occupancy shall be issued until the landscaping is completed as certified by an on-site inspection by the Building Inspector, Planning Staff, or other designated official, unless a financial guarantee acceptable to the City has been submitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.2b	Landscape surety. The owner shall provide the City with a cash deposit, bond, or approved letter of credit to guarantee the proper installation and growth of all landscape improvements proposed in the approved landscape plan. Said surety may remain in effect for two full growing seasons. A growing season shall be considered a period from May 1 to September 30. The first year, the amount of the surety will be equal to 100% of the estimated cost of plant material, installation and tree preservation. Once installation has been completed per the approved landscape plan and verified by the City, 75% of the surety will be reimbursed back to the owner. The remaining 25% will be kept by the City for a period of twelve (12) months to cover any maintenance cost that may be needed. Such surety shall be filed with the City Finance Officer.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.2c	The City may allow an extended period of time for completion of all landscaping if the delay is due to conditions which are reasonably beyond the control of the developer. Extensions may not exceed nine months, and extensions may be granted due to seasonal weather conditions. When an extension is granted, the City may require such additional security and conditions as it deems necessary.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.3a	The plan shall address all parts of the parcel and shall indicate: Details of all proposed vegetative landscaping materials, including placement, common and botanical names, caliper/height or container size and quantity and maintenance requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.3b	Details of proposed non-vegetative landscaping and screening materials.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.3c	Planting and construction schedule for completion of landscaping and screening plans.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.3d	Estimated cost from a landscaper on a bid or estimate form of the proposed landscaping.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.4	All portions of the site not covered by buildings, paving material, or other planned and approved surfaces shall be considered "landscaped area" and shall have a minimum of 4 inches of top soil and be planted with living plant materials and/or mulches. Overall site landscaping shall include not less than:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.4a	One tree placed in the boulevard per 40 linear feet of lot frontage;	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.4b	Not less than two trees and eight shrubs per 600 square feet of landscaped area. These are minimum standards – more plantings are encouraged.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5	All plant material used shall meet the minimum standards established by the American Association of Nurserymen as published in the American Standards for Nursery Stock and shall meet the following minimum requirements:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5a	Deciduous trees: 2" dbh (diameter at breast height)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5b	Ornamental trees: 2" dbh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5c	Evergreen trees: 5' height	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5d	Shrubs: 5 gallon container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.5e	Vines and Perennials: 1 gallon container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
F.6	Boulevard trees will be installed by the City Forester at City expense if the developer attends City tree school. If the developer installs boulevard trees they shall conform to City street standards. A complete list of trees and shrubs and other reliable plant material that has been approved by the City Forester is available in the City Planning and Development Department.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.7	Existing healthy trees should be preserved to the greatest extent practicable and shall be indicated on grading and landscape plans submitted for plan review; however, invasive trees shall be removed. Existing damaged, decayed, or diseased trees should be removed to protect remaining trees. Construction near existing trees should follow Best Management Practices to ensure their survival.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.8	Landscaping should reinforce pedestrian circulation routes and obstruct undesired routes of convenience. Bushes, trees, rocks, and other landscape features should be used to indicate where pedestrians should and should not travel.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.9a	Provide a five (5) to six (6) foot high solid screen to separate parking lots from abutting residential uses or other non-compatible uses. A solid landscape screen is defined as an evergreen or nearly evergreen mixture (minimum of 65% evergreen) of shrubs, bushes, or trees that produce a dense, sight-obscuring screen at least five (5) to six (6) feet in height within three years of planting. Berms may be included in this definition as long as the maximum height of the berm is five feet; both sides of the berm are planted with evergreen or nearly evergreen shrubs or bushes so that the total height of landscaping and berm will be at least six feet within three years of planting; and top of the berm plantings form a dense, sight-obscuring screen within the same three-year period.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.9b	Provide a minimum three (3) foot high visual relief screen when adjacent to a street in the form of a hedge, fence, planter, berm, dividers, shrubbery and trees or any combination. The visual relief screen shall extend the length of the parking lot. Three (3) feet in height shall be measured from surface of the parking lot and may be negotiable depending on the elevation of the parking lot in relation to the sidewalk and/or street. All landscaping to form such a visual relief shall be a minimum height of 2 feet at time of planting. Bark or other loose material shall not be placed on berms in these areas since it may be displaced on the street or sidewalk.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
F.10a	The property owner shall be responsible for maintenance and replacement of trees, shrubs, grass, ground covers, loose bark or gravel, and sod which are part of the approved landscape plan. If any such plant materials are not maintained or replaced, the City may utilize the required surety to replace the newly planted or protected landscaping or to deem this to be a Municipal Code Violation and issue an Order to Correct.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.10b	The owner is responsible for keeping trees in a plumb position. When staking or securing trees is done, it shall occur so as not to create any hazards or unsightly obstacles.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.10c	Plants must be maintained to be kept in sound, healthy and vigorous growing conditions and free of disease, insect eggs and larvae.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
F.10d	A sprinkler or lawn irrigation system shall be required in the front yard and boulevard of all developments if lawn or sod is proposed. This standard does not apply to boulevards if sprinkler or lawn irrigation systems are not needed for the front yard.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

WALLS AND FENCES

G.2	Walls and fences located in the front yard setback shall not exceed six feet in height above the finished grade and shall be at least 50% transparent to retain the visual connection between street and building.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
G.3	The design and materials for walls and fences shall be coordinated with the design and materials of the principal buildings and should have substantially the same detail. This is not intended to require identical materials and design.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G.3a	Pressure treated lumber fences shall not be permitted unless stained or painted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G.3b	All chain link fences must be plastic coated and shall only be permitted in side yards and backyard, and shall not extend nearer to the street than the front of the building nor used in the side yard on a corner property.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
G.3c	Smooth faced concrete (CMV) blocks or non-architectural poured walls used to construct a wall shall be covered with brick or some other decorative block or dimensional material such as a stained block product. Painted or colored smooth-faced concrete bricks or blocks shall not be considered decorative block.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
G.4	Walls and fences shall provide variety and articulation at each end and at intervals not exceeding 25 feet through at least one of the following methods: Changes in plane of not less than one (1) foot; Expression of structure, such as post, column, or pilaster; Variation of material; or Landscaping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

STORMWATER INFILTRATION AND CONTROL

H.2	A stormwater management and erosion control plan shall be required for all new construction, shall be coordinated with the Landscaping and Open Space Plan, and shall be designed by either a Registered Architect, Landscape Architect or a Professional Civil Engineer in accordance with the City of La Crosse's Stormwater Management Ordinance and shall include a maintenance plan and agreement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H.2a	Until such time as the City adopts a stormwater management ordinance, the City shall use the La Crosse County Stormwater Management Ordinance.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H.2b	For parcels less than ¼ acre in size, the City shall work with the property owner/developer/applicant to develop a practical site-specific stormwater management plan that allows for flexibility in the use of stormwater treatment devices including rain barrels, rain gardens, swales, cisterns, drain tiles, soil amendments, porous pavements, grass pavers for overflow parking areas, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
H.3	The use of bio-cells, living roofs and rain gardens is encouraged due to their aesthetic as well as utilitarian benefits.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H.4	Newly concentrated stormwater, such as that from rooftop, impervious surface, or swales, shall not be directed onto or across adjacent properties or across sidewalks. Rooftop stormwater shall not be discharged within 5 feet of a sidewalk unless an intervening landscape element is used to promote infiltration, such as a rain garden.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
H.5	Stormwater detention and infiltration facilities shall be designed as visual and open space amenities that enhance the overall appearance of the site.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

EXTERIOR LIGHTING

I.2	All exterior lights shall be designed for commercial use. A lighting plan showing lighting levels on-site and at the property line as well as spec sheets with pictures must be submitted with the Design Standards Checklist for each exterior light to be used.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.3	Pedestrian lighting shall clearly indicate the path of travel, shall minimize dark spots along that path, and shall utilize coordinated light fixtures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.4	The maximum height of wall-mounted parking lot light fixtures shall be 16 feet above the ground. Pole-mounted fixtures are acceptable but not required and will have a maximum height of 30 feet from the ground to the top of the fixture. Fixtures shall be of full-cut-off (FCO) design to minimize glare and spillover.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
I.5	Ornamental lighting to light the building façade is permitted provided that the light source is not visible from the property line and is designed to minimize glare and spillover.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.6	No overhead light source (i.e., the lamp or reflector) shall be visible from the property line. Shields may be employed, if necessary, to meet this requirement. The maximum allowable luminance measured 25 feet beyond the property line shall be .05 horizontal foot-candles (HFC).	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.7	Lighting levels for parking lots and pedestrian routes: (horizontal luminance measured in foot-candles):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.7a	Average: 2.4 foot-candles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.7b	Minimum: 1.0 foot-candles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.7c	Uniformity Ratio (Bright spots to dark spots): 4:1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.7d	Maximum Average: .5 foot-candles	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.8	Each exterior entry to structures on the property shall have an exterior light.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
I.9	For properties adjacent to residential uses, motion sensor flood or spot lights shall have shrouds, be limited to two (2) bulbs pointed at least thirty degrees downward and not directly into windows or doors of neighboring building and the light sources shall not be visible from the street.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

PATIOS, PORCHES, DECKS, AND ROOFTOP GARDENS/DECKS

J.2	Every residential unit is encouraged to have its own patio or balcony and shall be incorporated into the architectural façade of the building and may encroach into the building setback area but not more than 25%. Commercial structures are also permitted to have exterior balconies. No patio or balcony can hang over a sidewalk.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
J.3	For commercial developments, ground level patios or decks for customer seating are permitted in the setback areas and should include some screening for noise.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J.4	Exterior stairs leading to a deck or balcony are permitted provided that they are decorative and are architecturally compatible with the building and constructed of compatible materials. Exterior corridors visible from a street are not permitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
J.5	Rooftop green roofs or rooftop patios and decks are permitted and if intended for occupied use shall have a railing height or parapet of at least 42 inches. Only outdoor furniture is permitted.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

BUILDING DESIGN: FORM, SCALE AND CONTEXT

K.2	Photos of at least four (4) street views of nearby blocks shall be submitted with the Design Standards checklist.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.3	Buildings shall be designed to provide human scale, interest, and variety. The following techniques may be used to meet this objective:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.3a	Variation in the building form such as recessed or projecting bays, shifts in massing, or distinct roof shapes.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.3b	Emphasis of building entries through projecting or recessed forms, detail, color, or materials.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.3c	Variation of material, modules, expressed joints and details, surface relief, color, and texture to break up large building forms and wall surfaces. Such detailing could include sills, headers, belt courses, reveals, pilasters, window bays, and similar features.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.4	For all non-manufacturing or retail buildings, where the allowable building is more than 50% wider than adjacent buildings, one of the following techniques shall be employed to minimize the apparent width of the primary façade:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.4a	Articulate the façade with projections or bays.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.4b	Use architectural elements such as column, canopies, glass, changes in materials, and covered entries to interrupt the façade.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

		YES	NO	N/A	NOTES
K.5	The first floor façade shall include windows to provide visual interest and visual connection to the street. The total area of windows and doors on the street-facing façade, including trim, shall not be less than 20% of the total area of the façade, excluding gables.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.6	Buildings shall be built to the front yard setback line. In highway commercial areas, the building setback shall not be greater than 25 feet and no parking is permitted in the front yard setback area.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
K.7	Commercial buildings within Historic Districts or adjacent to any designated historic building must first receive DRC review and approval prior to submittal to the Heritage Preservation Commission for their review. Approval by the Heritage Preservation Commission is necessary prior to the issuance of any building permit. The developer can appeal to the City Plan commission if denied by the Heritage Preservation Commission.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

BUILDING ENTRANCES, DETAILS, TRIM, DOORS AND WINDOWS

L.2	The primary entrance to the building shall be covered at least three (3) feet from the door. Entrance features may encroach into the front yard setback a maximum of three (3) feet. Building entrances shall be emphasized through projecting or recessing forms, detail, color or materials. Buildings shall be oriented toward the street with pedestrian access.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L.3	All openings shall be articulated or appropriately trimmed through the use of materials such as flat or arched lintels, projecting sills, or surrounds.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L.4a	All windows shall be in keeping with the architectural character of the building.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L.4b	All windows shall have an interior locking or securing mechanism.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
L.4c	For mixed used developments that include residential units, exterior entry doors for individual units shall be residential in style (real or decorative styles, rails or panels) solid or insulated or multiple units may be commercial in style (glass). If the door does not have a translucent window lower than five (5) feet, it shall have a security pcephole.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ROOFS AND ROOF LINES

M.2	Any roof style such as hip, gambrel, mansard, colonial, flat or another roof style is permitted so long as the roof pitch is appropriate to the architectural style of the building (e.g. prairie school) and the roof element contains additional architectural elements such as dormers, long overhangs, windows or other feature.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
M.3	Flat roofs are permitted, and must incorporate a parapet wall on all sides, unless the rear side of the building is sloped for drainage. The parapet should include architectural details appropriate to the building design that create a positive visual termination for the building (a "top").	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
M.4	A minimum of 50% of a building's linear roof drip edge should fall to ground surfaces that do not contain impervious surface. If gutters or other stormwater drains toward neighboring properties, then water shall be directed to an onsite rain garden(s) designed to retain a 0.5 inch-1hr rainfall. For information regarding directing clean roof water to rain gardens, the Wisconsin DNR and UW-Extension have extensive publications on the proper calculation for the size and planting materials for rain gardens in Wisconsin.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

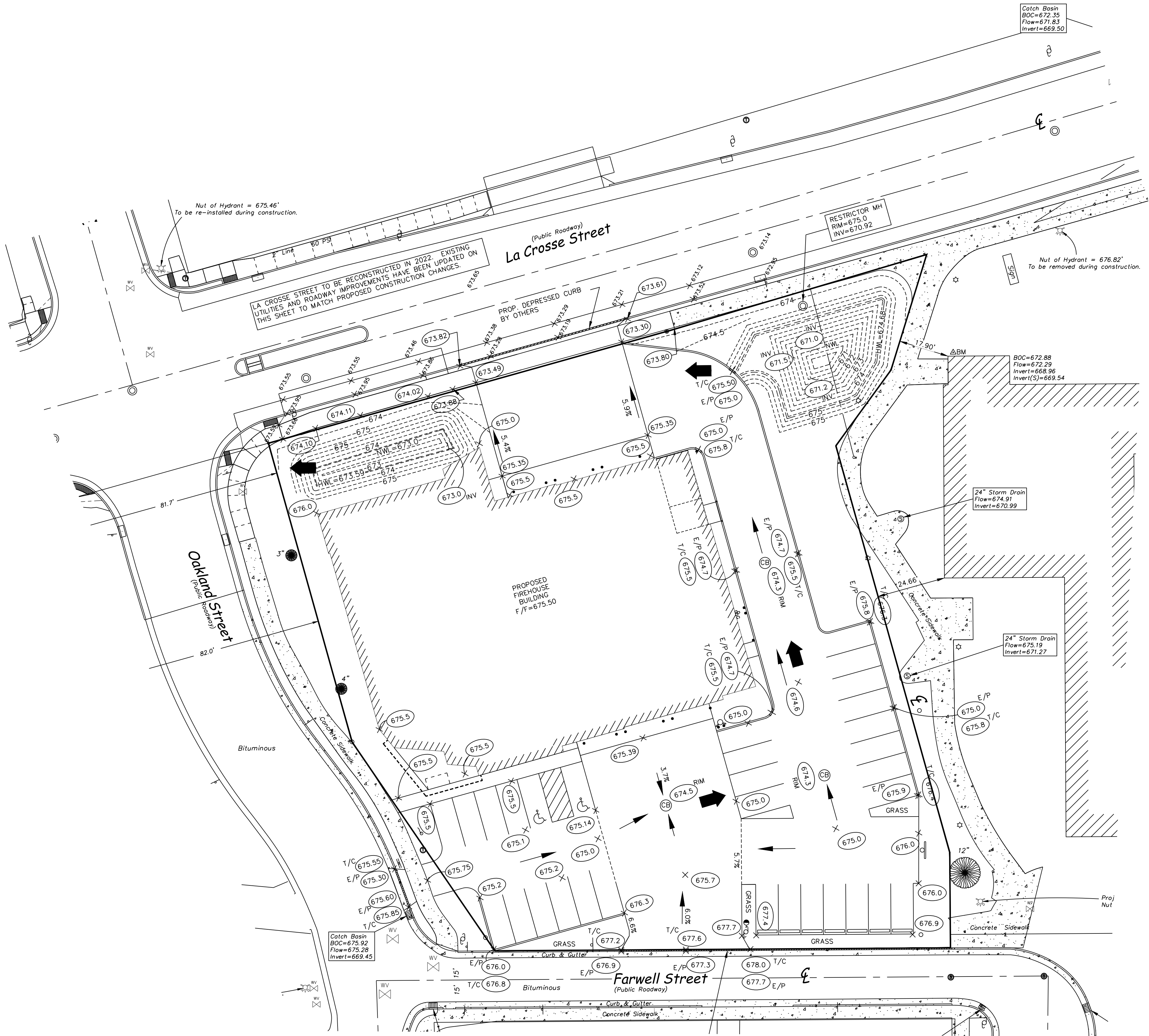
EXTERIOR MATERIALS

N.2	The use of identical materials on all sides of the building is encouraged; however, higher-quality materials on street-facing façade and complementary materials on other façade is acceptable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N.3	Use of decorative accessories and trim is highly encouraged.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

DESIGN REVIEW CHECKLIST

	YES	NO	N/A	NOTES
N.4 Vinyl, plywood, chipboard, T1-11, asphalt siding, non-architectural metal siding and smooth-faced concrete block are prohibited as exterior finish materials unless the architect can demonstrate that the materials are appropriate to the design of the building. Treated wood shall be painted or stained.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N.5 Natural wood shall be painted or stained, unless it is cedar, redwood or some other naturally weather resistant species and is intended to be exposed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N.6a Since the selection of building colors has a significant aesthetic and visual impact upon the public and neighboring properties, as well as an impact on the energy use and comfort of customers and tenants, designs and color shall be selected in general harmony with the overall existing neighborhood.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N.6b Neutral or natural colors for the primary siding material with brighter or darker colors for accent and trim that provide for a more interesting building and are cooler in the summer are preferred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
N.6c Complementary multi-color and textured roofing materials that provide for a more interesting building and are cooler in the summer are preferred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
GARAGES AND ACCESSORY BUILDINGS				DRIVE THROUGH BAYS WILL HAVE DOORS ON THE STREET SIDE OF THE FACILITY DUE TO THE NATURE OF THE FACILITY AND NEED FOR QUICK EMERGENCY RESPONSE TIMES.
O.2 Street-facing overhead doors on garages are not permitted on lots served by an alley.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
O.3 The cumulative length of all garage doors facing the street shall not exceed 50% of the total length of the street-facing elevation unless architecturally justified.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
O.4 Accessory buildings shall be architecturally compatible and be constructed of the same materials as the primary building(s). All changes to the approved plans such as the addition of an accessory structure shall be approved by the Design Review Committee if not submitted at the time of initial review.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BUILDING CONSTRUCTION				
P.2 A completed LEED checklist must be submitted with the Design Standards checklist to demonstrate compliance with the standard.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BUILDING, PROPERTY AND LANDSCAPING MAINTENANCE				
Q.2 All commercial structures and buildings that are developed and constructed under this ordinance shall maintain the property through an ongoing maintenance program. The maintenance program is to include all exterior aspects of the development and include but is not limited to parking lots, building mechanicals, service elements, customer and tenant amenities, landscaping open space and plantings, wall and fences, signage, stormwater facilities, exterior lighting, patios and decks, exterior finishes, windows, architectural detail, and accessory structures.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Q.3 The project shall be maintained over the life of the development in a like-new condition with an on-going maintenance program that adheres to the intent of the original building plans and is subject to inspection by the City at anytime. Failure to maintain the project may subject the property to fines as permitted under this Chapter and the City of La Crosse Stormwater Management Ordinance. (#4513-7/9/09)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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GENERAL NOTES:

- ELEVATIONS BASED ON (WCCS) NAD 83 (2011) ADJUSTMENT.
- BEFORE ANY EXCAVATION, THE CONTRACTOR SHALL CALL D.I.G.G.E.R. @ (811 OR 1-800-242-8511) TO LOCATE ALL EXISTING UTILITIES ONSITE. THE CONTRACTOR SHALL FAMILIAR WITH THE LOCATIONS OF ALL BURIED UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK PROPOSED HEREON SHALL BE IN ACCORDANCE WITH THE 'CITY OF LA CROSSE - STANDARD SPECIFICATIONS AND PROCEDURES', LATEST EDITION UNLESS OTHERWISE NOTED IN THESE PLANS. IN THE EVENT OF CONFLICTING REQUIREMENTS, THE CITY OF LA CROSSE'S REQUIREMENTS WILL GOVERN.
- THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK. ANY DISCREPANCIES FOUND SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER
- THE CONTRACTOR SHALL EXAMINE THE PLANS AND NOTES, VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF FULLY WITH THE WORK INVOLVED, GENERAL AND LOCAL CONDITIONS, ALL FEDERAL, STATE AND LOCAL LAWS, ORDINANCES, RULES AND REGULATIONS AND ALL OTHER PERTINENT ITEMS PRIOR TO THE START OF THIS PROJECT.
- NEITHER THE ENGINEER NOR THE OWNER GUARANTEE THE COMPLETENESS OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS REGARDING UTILITIES, EITHER PUBLIC OR PRIVATE, SUCH AS SEWERS, MANHOLES, CATCH BASINS, GAS AND WATER MAINS, TELEPHONE AND ELECTRICAL DUCT LINES AND SIMILAR STRUCTURES. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES THAT MAY INTERFERE WITH CONSTRUCTION OPERATIONS, AND SHALL REPORT TO THE ENGINEER ANY DIFFERENCES FROM THE LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. BY FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE.
- THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OR PERFORMANCE, PROGRAMS OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ANY UTILITY TO REMAIN THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER, PROJECT OWNER AND UTILITY OWNER, BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
- THE CONTRACTOR SHALL KEEP A SET OF CONSTRUCTION PLANS ON THE JOB SITE, AND SHALL MAINTAIN A LEGIBLE RECORD ON SAID PLANS OF ANY ALTERATIONS TO PLANS AND SPECIFICATIONS OF PROPOSED IMPROVEMENTS, ETC. UPON COMPLETION OF THE CONTRACTOR'S WORK, SAID PLANS AND INFORMATION SHALL BE PROVIDED TO THE ENGINEER.
- THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITS INCLUDING THOSE FROM THE CITY OF LA CROSSE, PRIOR TO COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ANY AREA DISTURBED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL USE. THE CONTRACTOR SHALL NOT EXCAVATE OR DISTURB BEYOND PROPERTY LINE BOUNDARIES, UNLESS OTHERWISE INDICATED ON THE PLANS.
- DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING OR ANY OTHER ACCEPTABLE METHOD.

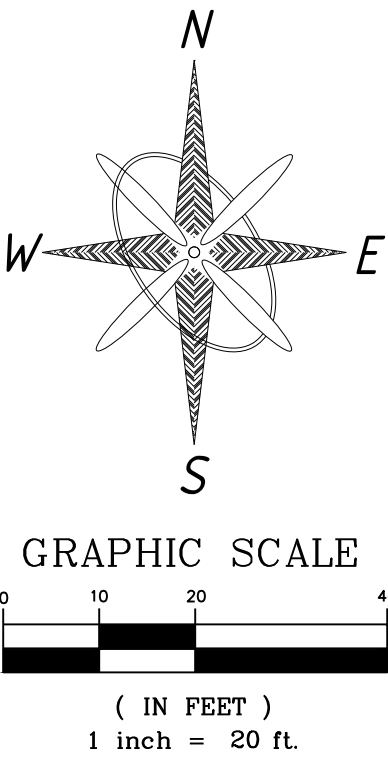
LEGEND

P.U.	PUBLIC UTILITY EASEMENT	+CN	FOUND CROSS-CUT
D.E.	DRAINAGE EASEMENT	●PK	FOUND P.K. NAIL
P.S.E.	PUBLIC WALK EASEMENT	⊗ XX.XX	PROPOSED SPOT ELEVATIONS
PROP.	PROPOSED FEATURE	⊗ XX.XX	EXISTING SPOT ELEVATIONS
EXIST.	EXISTING	--812--	EXISTING CONTOURS
MH	MANHOLE	⊗BB	BUFFALO BOX
T/F	TOP OF FOUNDATION	⊗	CLEANOUT
CONC.	CONCRETE	⊗	A/C UNIT
ME	MEET EXISTING	→	DRAINAGE FLOW ARROW
M=	MEASURED DIMENSION	⊗	WATER VALVE VAULT
R=	RECORDED DIMENSION	⊗CB	SEWER CATCH BASIN/ INLET
BLDG.	BUILDING	⊗	SEWER MANHOLE
RAD	RADIUS	⊗	TREE W/ SIZE
●IP	FOUND IRON PIPE	⊗	FIRE YDRANT
●IR	FOUND IRON ROD	●	BOLLARD
⊗IP	INLET BASKET FILTER	⊗	POWER POLE
⊗	LIGHT POLE	⊗	EXISTING CONCRETE PAVEMENT
⊗	GUY WIRE	⊗	EXISTING BITUMINOUS PAVEMENT
---	PROPERTY LINE	⊗	EXISTING GRAVEL PAVEMENT
---	WATER MAIN	⊗	STRUCTURE OR ITEM TO BE REMOVED
---	GAS MAIN	⊗	
---	COMBINED SEWER LINE	⊗	
---	STORM SEWER LINE	⊗	
---	CABLE/TV LINE	⊗	
---	TELEPHONE/COMMUNICATION LINE	⊗	
---	ELECTRIC LINE	⊗	
---	OVERHEAD LINE	⊗	
---	SILT FENCING	⊗	
---	CHAIN LINK CONSTRUCTION FENCING	⊗	
		⊗	TO BE REMOVED
		⊗	OVERLAND FLOOD ROUTE

KNIGHT

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WISCONSIN

CITY OF LA CROSSE

La Crosse, WI

LA CROSSE FIRE
STATION #2

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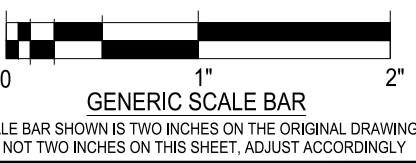
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NO.	REVISIONS	DATE

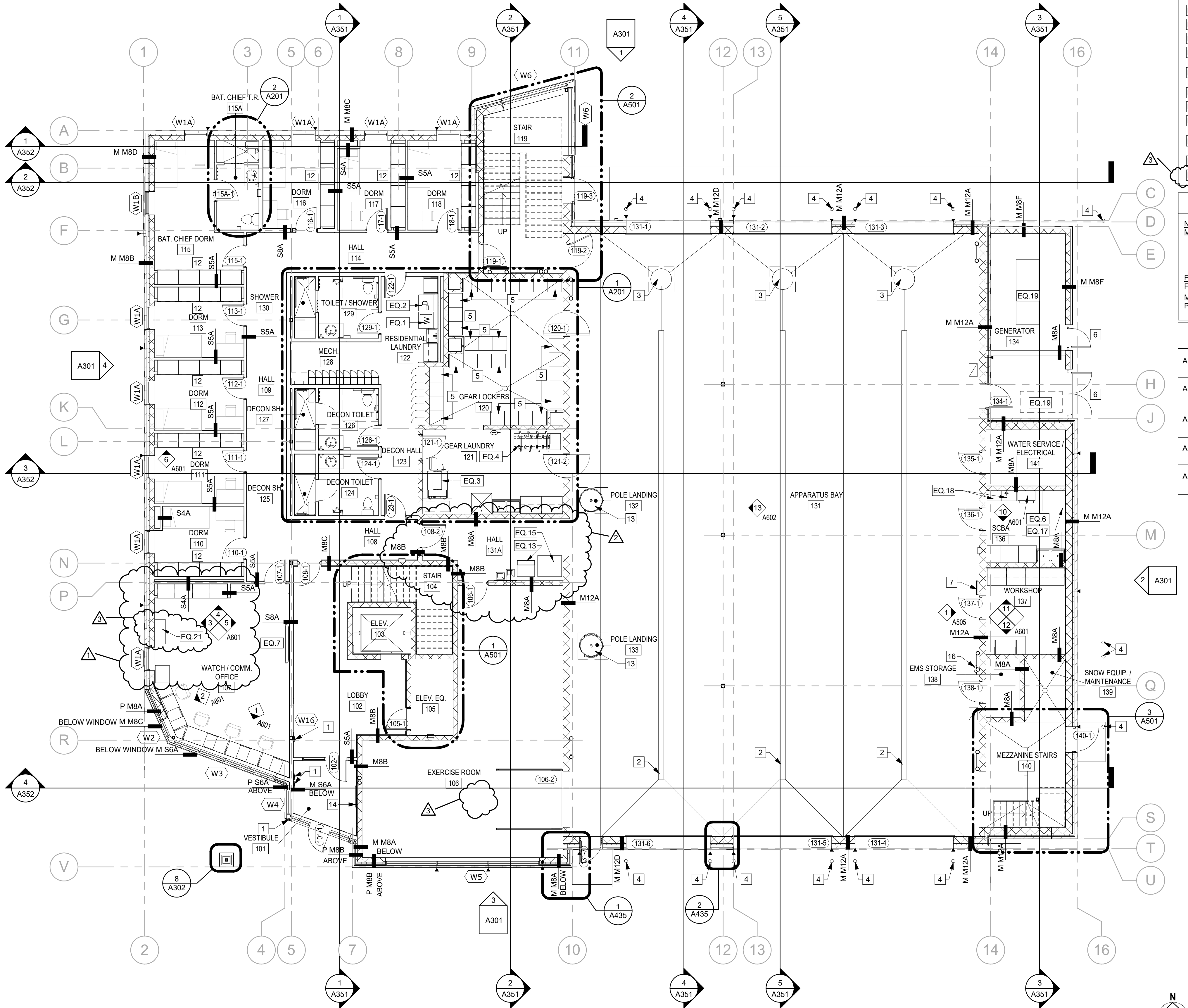
DWG. TITLE

GRADING PLAN



DATE 11.04.2021
SCALE As indicated
DWN. WAM CHK. RBM
PROJ. No. 601804
DWG. No.

C501

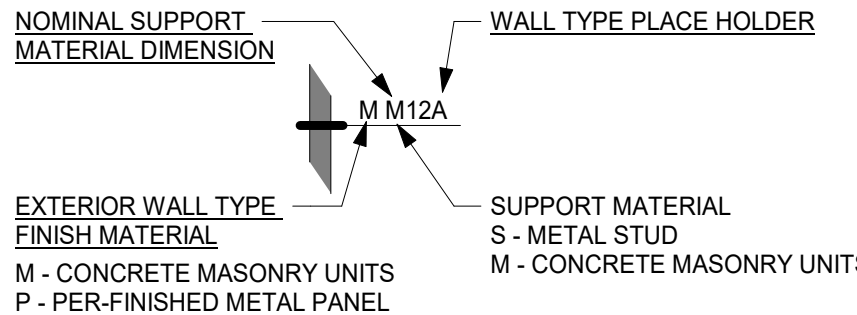


1 01 - FLOOR PLAN
SCALE: 1/8" = 1'-0"

EQUIPMENT KEY NOTES

- EQ.1 RESIDENTIAL WASHING MACHINE. EXISTING BY OWNER - CONTRACTOR INSTALL.
EQ.2 RESIDENTIAL DRYING MACHINE. EXISTING BY OWNER - CONTRACTOR INSTALL.
EQ.3 WASHER / EXTRACTOR. BY OWNER - CONTRACTOR INSTALL.
EQ.4 GEAR DRYER. EXISTING BY OWNER - OWNER INSTALLED.
EQ.5 SCBA COMPRESSOR. PURCHASED BY OWNER - OWNER INSTALL.
EQ.6 SCBA FILL STATION. PURCHASED BY OWNER - OWNER INSTALL.
EQ.7 TV. BY OWNER - CONTRACTOR INSTALLED.
EQ.8 REFRIGERATOR / FREEZER. BY OWNER - OWNER INSTALL.
EQ.9 RANGE. BY OWNER - OWNER INSTALL.
EQ.10 RANGE HOOD. BY CONTRACTOR - CONTRACTOR INSTALL.
EQ.11 MICROWAVE. BY OWNER - OWNER INSTALL.
EQ.12 DISHWASHER. BY OWNER - CONTRACTOR INSTALL.
EQ.13 ICE MACHINE. BY OWNER - OWNER INSTALL.
EQ.14 UNDER COUNTER REFRIGERATOR. BY OWNER - OWNER INSTALL.
EQ.15 BEVERAGE VENDING MACHINE. BY OWNER - OWNER INSTALL.
EQ.16 COPIER. BY OWNER - OWNER INSTALL.
EQ.17 FUTURE SCBA EXTRACTOR. BY OWNER - OWNER INSTALL.
EQ.18 SCBA CYLINDER STORAGE. BY OWNER - OWNER INSTALL.
EQ.19 GENERATOR. SEE ELECTRICAL AND SITE PLANS FOR ADDITIONAL INFORMATION. CONTRACTOR INSTALL.
EQ.20 GARBAGE / RECYCLING.
EQ.21 MURPHY BED. BY OWNER - INSTALLED BY CONTRACTOR.

PARTITION SYMBOLS



ALTERNATE LEGEND

ALTERNATE #1	ADD ALTERNATE TO INSTALL SOLAR TUBES, AS DISCRIBED IN THE CONSTRUCTION DOCUMENTS
ALTERNATE #2	ADD ALTERNATE TO REPLACE METAL GUARDRAIL PANELS WITH SAFETY GLAZING
ALTERNATE #3	ALTERNATE DEDUCT TO REPLACE THE QUARTZ KITCHEN BACKSPASH WITH TILE
ALTERNATE #4	ADD ALTERNATE TO CHANGE FRONT APRON TO CONCRETE
ALTERNATE #5	ADD ALTERNATE TO CHANGE REAR APRON TO CONCRETE

GENERAL CONSTRUCTION NOTES

- A. ALL DIMENSIONS ARE TO BE TAKEN OFF OF EDGE OF STUD WALLS.
B. FIRE EXTINGUISHERS.
F.E.=WALL MOUNTED
F.E.=RECESSED IN WALL
C. COORDINATE WITH OWNER BEFORE GYPSUM BOARD INSTALLATION FOR ANY WOOD BLOCKING REQUIRED FOR OWNER PROVIDED EQUIPMENT.
D. REFER TO STRUCTURAL DRAWINGS FOR EXACT LOCATIONS OF COLUMNS.
E. REFER TO RCP FOR CEILING HEIGHTS.
F. SEE SHEET G.002 FOR CODE PLAN AND LOCATIONS OF FIRE RATED CONSTRUCTION.
G. CONSTRUCTION NOTES LISTED ON SHEETS A103 & A104 ARE TYPICAL TO THOSE SHEETS. SOME NOTES MAY NOT BE REFERENCED ON EACH SHEET.
H. MOVEMENT JOINTS
= CMU CONTROL JOINT (20'-0" O.C. MAX)
REFER TO SPECIFICATIONS.
I. REFER TO STRUCTURAL PLANS FOR SLOPED SLABS SURROUNDING FLOOR DRAINS AND TRENCHES

FLOOR PLAN KEY NOTES

- 1 ADA DOOR OPERATORS. FIELD VERIFY EXACT LOCATIONS OF OPERATORS IN THE FIELD WITH ARCHITECT.
2 TRENCH DRAIN, REFER TO PLUMBING STRUCTURAL PLANS.
3 CATCH BASIN, REFER TO PLUMBING PLANS.
4 PIPE BOLLARD, REFER TO CIVIL PLANS.
5 24"x24" GEAR LOCKERS WALL MOUNTED, SUPPLIED AND INSTALLED BY OWNER.
6 SWING GATE, SEE SPECIFICATIONS.
7 FIXED LADDER TO MEZZANINE. REFER TO SPEC. PROVIDE (2) CHAINS, CLASPS AND ATTACHMENT TO LADDER FOR FALL PROTECTION.
8 REMOVABLE GUARDRAIL, REFER TO DETAIL @A502, ELEVATION 3/A503.
9 HOIST BEAM, REFER TO STRUCTURAL.
10 HOIST: (1) AT HOSE / TRAINING STAIRWAY AND (1) AT APPARATUS BAY #. REFER TO SPEC NOTE ON SHEET X/XXX.
11 HOSE HOIST RACK SYSTEM.
12 DORM CASEWORK ELEVATION. SEE 7/A601.
13 FIRE POLE, MAT AND CAGE. SEE SPECIFICATIONS FOR RELATED REQUIREMENTS.
14 PUBLIC POSTING BOARD, BY OWNER.
15 LADDER TO ROOF.
16 EYE WASH STATION.
17 OFFICE CASEWORK ELEVATION. SEE 19/A601.
18 EMBED ANCHOR POINT. SEE 11 & 12/A302 FOR LOCATIONS.
19 TIE-OFF ANCHOR ABOVE OPENING. SEE 12/A302 FOR LOCATION.

DRAWING SYMBOLS

COLUMN LINE	1	COLUMN DESIGNATION
BUILDING SECTION	1	COLUMN CENTERLINE
WALL SECTION	1	BLDG CROSS SECTION NUMBER
DETAIL SECTION	1	DRAWING NUMBER
ROOM TAG	1	ROOM NAME
EXTERIOR ELEVATION TAG	A101	ROOM NUMBER
INTERIOR ELEVATION TAG (SINGLE ELEVATION)	A101	ELEVATION NUMBER
INTERIOR ELEVATION TAG (MULTIPLE ELEVATIONS)	A101	DRAWING NUMBER
INTERIOR ELEVATION TAG (SINGLE ELEVATION)	A101	ELEVATION NUMBERS
ROOM TAG	Room name	DRAWING NUMBER
DOOR TAG	101	ELEVATION NUMBERS
WINDOW / STOREFRONT TAG	W1	DRAWING NUMBER
WALL TAG	1	ELEVATION NUMBERS
VIEW TITLE	1	DRAWING NUMBER

LA CROSSE
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NO.	REVISIONS	DATE
3	Addendum 7	12-22-2021
2	Addendum 6	12-08-2021
1	Addendum 4	11-23-2021
0	Bid Set	11-04-2021

DWG. TITLE

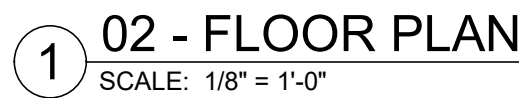
FIRST FLOOR PLAN



SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	11.04.2021
SCALE	As Indicated
DWN.	Author
CHK.	Checker
PROJ. No.	601804
DWG. No.	

A103



ALTERNATE LEGEND	
ALTERNATE #1	ADD ALTERNATE TO INSTALL SOLAR TUBES, AS DESCRIBED IN THE CONSTRUCTION DOCUMENTS
ALTERNATE #2	ADD ALTERNATE TO REPLACE METAL GUARDRAIL PANELS WITH SAFETY GLAZING
ALTERNATE #3	ALTERNATE DEDUCT TO REPLACE THE QUARTZ KITCHEN BACKSPLASH WITH TILE.
ALTERNATE #4	ADD ALTERNATE TO CHANGE FRONT APRON TO CONCRETE
ALTERNATE #5	ADD ALTERNATE TO CHANGE REAR APRON TO CONCRETE

FLOOR PLAN KEY NOTES	
1	ADA DOOR OPERATORS. FIELD VERIFY EXACT LOCATIONS OF OPERATORS IN THE FIELD WITH ARCHITECT
2	TRENCH DRAIN. REFER TO PLUMBING STRUCTURAL PLANS.
3	CATCH BASIN. REFER TO PLUMBING PLANS.
4	PIPE BOLLARD. REFER TO CIVIL PLANS.
5	24"x24" GEAR LOCKERS WALL MOUNTED, SUPPLIED AND INSTALLED BY <u>OWNER</u> .
6	SWING GATE. SEE SPECIFICATIONS
7	FIXED LADDER TO MEZZANINE. REFER TO SPEC. PROVIDE (2) CHAINS. CLASPS AND ATTACHMENT TO LADDER FOR FALL PROTECTION
8	REMOVABLE GUARDRAIL. REFER TO DETAIL <u>6/A502</u> . ELEVATION <u>3/A503</u>
9	HOIST BEAM. <u>REFER TO STRUCTURAL</u>
10	HOIST: (1) AT HOSE / TRAINING STAIRWAY AND (1) AT APPARATUS BAY #. REFER TO SPEC NOTE ON SHEET <u>X/XXX</u>
11	HOSE HOIST RACK SYSTEM
12	DORM CASEWORK ELEVATION. SEE 7/A601
13	FIRE POLE, MAT AND CAGE. SEE SPECIFICATIONS FOR RELATED REQUIREMENTS
14	PUBLIC POSTING BOARD, BY OWNER
15	LADDER TO ROOF
16	EYE WASH STATION
17	OFFICE CASEWORK ELEVATION. SEE <u>19/A601</u>
18	EMBED ANCHOR POINT. SEE 11 & 12/A302 FOR LOCATIONS
19	TIE-OFF ANCHOR ABOVE OPENING. SEE 12/A302 FOR LOCATION

DRAWING SYMBOLS		
COLUMN LINE		COLUMN DESIGNATION COLUMN CENTERLINE
BUILDING SECTION		BLDG CROSS SECTION NUMBER SIM DRAWING NUMBER
WALL SECTION		SECTION NUMBER SIM DRAWING NUMBER
DETAIL SECTION		DETAIL NUMBER DRAWING NUMBER
ROOM TAG		ROOM NAME ROOM NUMBER
EXTERIOR ELEVATION TAG		ELEVATION NUMBER DRAWING NUMBER
INTERIOR ELEVATION TAG (MULTIPLE ELEVATIONS)		ELEVATION NUMBERS DRAWING NUMBER
INTERIOR ELEVATION TAG (SINGLE ELEVATION)		ELEVATION NUMBERS DRAWING NUMBER
ROOM TAG		ROOM NAME ROOM NUMBER
DOOR TAG		DOOR NUMBER
WINDOW / STOREFRONT TAG		WINDOW / STOREFRONT DESIGNATION
WALL TAG		WALL DESIGNATION
VIEW TITLE		PLAN, SECTION OR DETAIL NUMBER TITLE SCALE

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2	Addendum 6	12-08-2021
1	Addendum 4	11-22-2021
0	Bid Set	11-04-2021
NO.	REVISIONS	DATE

SECOND FLOOR PLAN

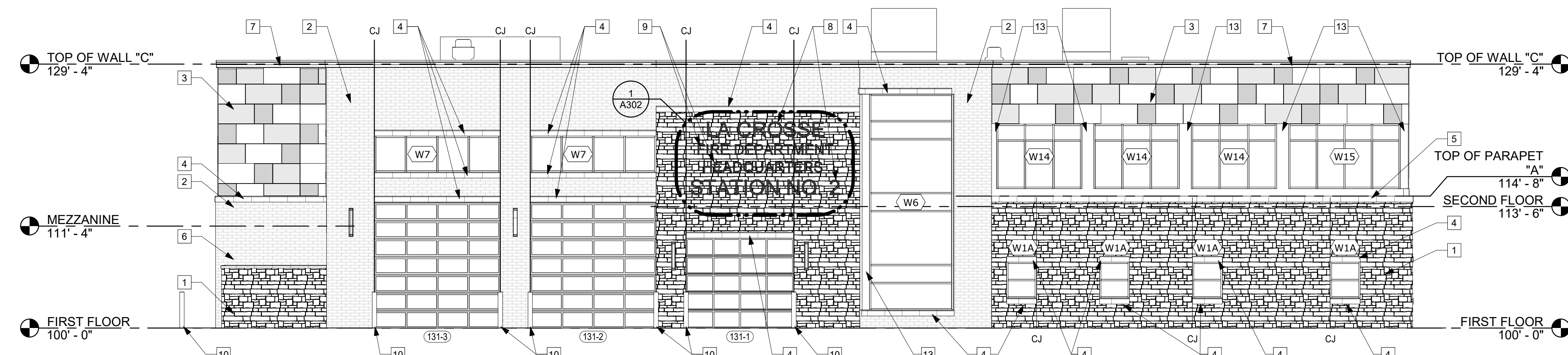


GENERIC SCALE BAR

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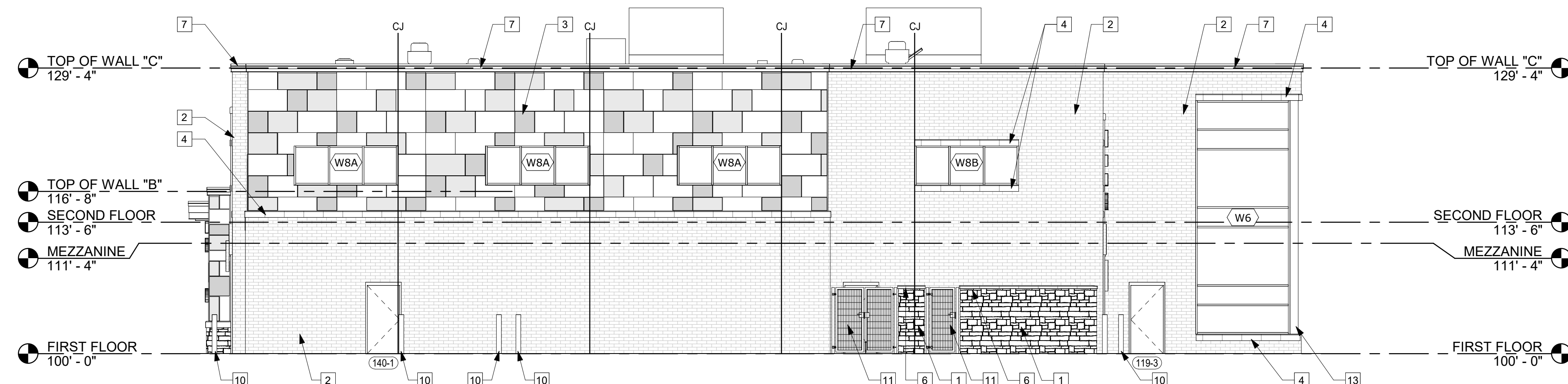
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SCALE	As indicated		
DWN.	Author	CHK.	Checker
PROJ. No.	601804		
DWG. No.	1101		

A104



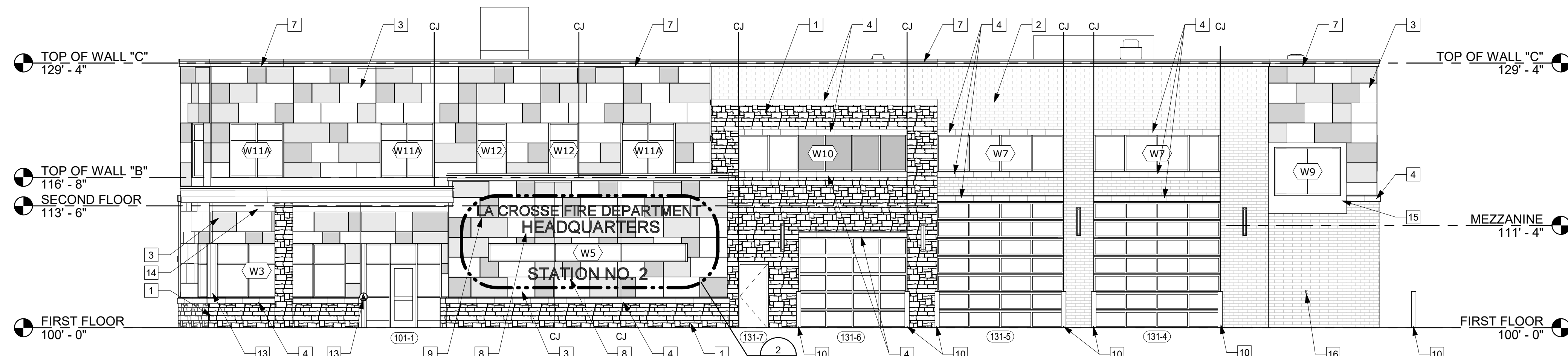
1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"



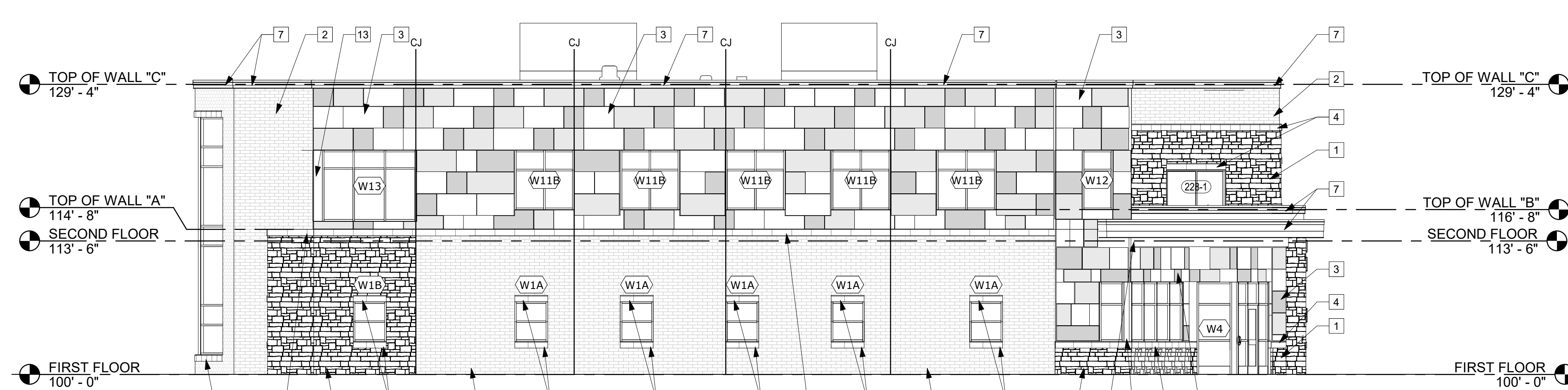
2 EAST ELEVATION

SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



4 WEST ELEVATION

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATION KEY NOTES

- STONE VENEER
- UTILITY BRICK
- PRE-FINISHED METAL WALL PANEL, SEE LEGEND FOR COLORS
- CAST STONE UNIT #1 (SILLS, HEADS). SEE DETAIL 3/A302
- CAST STONE UNIT #2. SEE DETAIL 4/A302
- CAST STONE UNIT #3 (WALL CAP). SEE DETAIL 5/A302
- PRE-FINISHED METAL FASCIA
- 20" DIMENSIONAL LETTERS BY OWNER
- 14" DIMENSIONAL LETTERS, BY OWNER
- PIPE BOLLARD WITH PLASTIC COVER, REFER TO DETAIL 6/A302
- SWING GATE, SEE DETAIL 9/A302
- FLAG POLE, REFER TO DETAIL 7/A302
- PRE-FINISHED ALUMINUM EXTRUDED COVER, BY WINDOW MANUFACTURER
- PRE-FINISHED ALUMINUM BREAK METAL
- STEEL WALL PLATE, PNT-X, SEE DETAILS 1 & 2/A906
- TIE-OFF ANCHOR FOR LADDER, SEE STRUCTURAL

- COLOR 1
- COLOR 2
- COLOR 3

METAL PANEL LEGEND

SCALE: 1" = 1'-0"

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CITY OF LA CROSSE

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LA CROSSE FIRE
STATION #2

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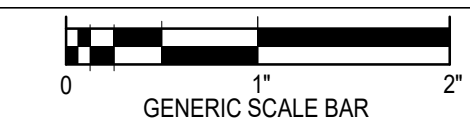
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DWG. TITLE

EXTERIOR ELEVATIONS



DATE 11.04.2021

SCALE As indicated

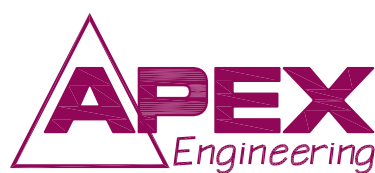
DWN. Author CHK. Checker

PROJ. No. 601804

DWG. No.

A301

A302



LA CROSSE
WISCONSIN

**LA CROSSE FIRE
STATION #2**

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DING, TI

REVISIONS	DATE
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DANG, TI

ELECTRICAL SITE PLAN



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D/W/L	PDK	CHK.	PDK
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PROJ. No. 601804

D/WG. No.

E100LC

LIGHTING FIXTURE SCHEDULE														
TYPE	DESCRIPTION	MFG	PART #	TEMP.	LUMENS	AMOUNT	SHIELDING	DRIVER	VOLT.	EMERG.	COLOR	OPTIONS	EQUALS	NOTE
P34	POLE MOUNTED SITE LIGHT 93W	McGraw	GALISA2AT4FT	4K	13,760	POLE	TYPE 2T		UNV	DB	SPB4	ACCUTY/HUBBEL	1,3,6,7	
W22	WALL MOUNTED SITE LITE 66W	McGraw	GWCSEA2T2	4K	9,500	WALL	TYPE 4T		UNV	DB	SPB4	ACCUTY/HUBBEL	1,3	
W24	WALL MOUNTED SITE LITE 66W	McGraw	GWCSEA2AT4FT	4K	9,500	WALL	TYPE 4T		UNV	DB	SPB4	ACCUTY/HUBBEL	1,3	
W20	24" WALL MNTD. DEC. 20W	ASL	BS1W2DNHDH24	4K	2,000	WALL		ON/OFF	120V	STN/WHT	WFT LOC	ACCUTY/COOPER	1,2	
W20	24" WALL MNTD. DEC. 20W	ASL	BS1W2DNHDH30	4K	2,000	WALL		ON/OFF	120V	STN/WHT	WFT LOC	ACCUTY/COOPER	1,2	
WP	WALL MNTD. SITE LIGHT 18W	LUMARK	XTORX2B	4K	2,100	WALL			UNV	VERIFY	DB	ACCUTY/HUBBEL	1,5	

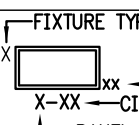





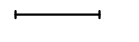

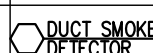
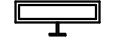


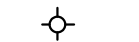








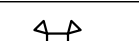


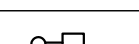








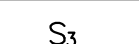


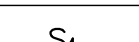


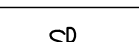

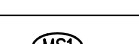


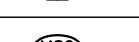


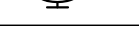
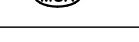


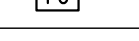


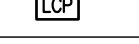






FIGURE MODEL NUMBER MAY NOT REFLECT ALL MOUNTING HARDWARE. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL THE NECESSARY MOUNTING EQUIPMENT, LENSES, TESTS, SAFETY CHAINS, END PLATES AND OTHER HARDWARE FOR A COMPLETE INSTALLATION. PROVIDE FLANGE KIT AS REQ'D.

1. COORDINATE LOCATION WITH EQUIPMENT AND OWNER.

2. SET TO MEET: LUMEN AND 4000K TEMP. SET B43 TO 3000K.

3. PROVIDE 25' POLE AND RECEPT.

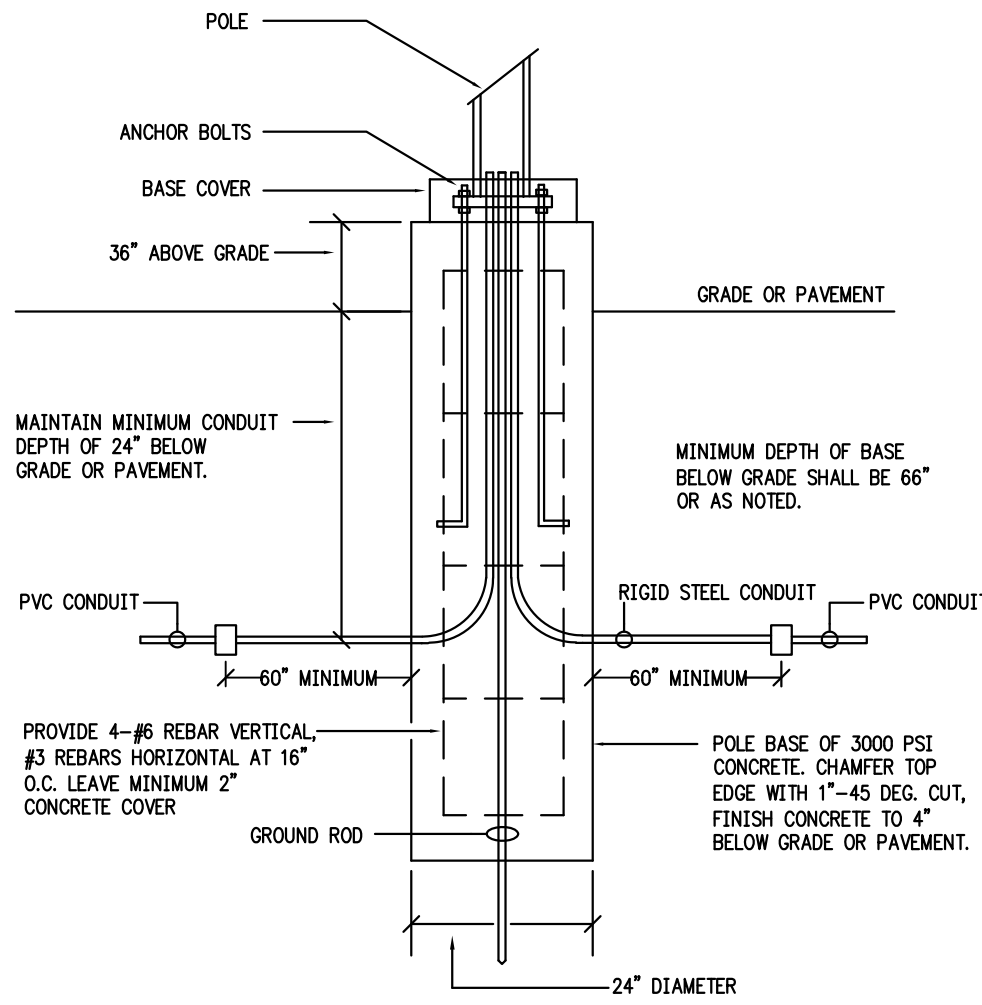
4. PROVIDE HOUSE SHIELD HISS

SYMBOL SCHEDULE			
LIGHTING		RECEPTACLES	FIRE ALARM
 <div>FIXTURE TYPE SWITCH LESS OR RELAY # LAY-IN TRIGGER DESIGNATIONS TYPICAL FOR ALL FIXTURE TYPES X-XX - CIRCUIT # - PANEL DESIGNATION</div>	 SINGLE RECEPTACLE -18" TO CENTER AFF	 SMOKE DETECTOR	
 <div>NIGHT LIGHT (TYPICAL ALL FIXTURES) -ALL LAMPS SHALL BE UNSWITCHED</div>	 DUPLEX RECEPTACLE -18" TO CENTER AFF	 HEAT DETECTOR	
 STRIP / INDUSTRIAL FIXTURE	 DUPLEX RECEPTACLE ON STAND-BY POWER -18" TO CENTER AFF	 DUCT SMOKE DETECTOR	
 WALL MOUNTED LINEAR FIXTURE	 DUPLEX RECEPTACLE -CEILING MOUNT	 FIRE ALARM STROBE - 80" AFF -NUMBER REPRESENTS CANDELA RATING	
 CEILING FIXTURE	 GFI PROTECTED DUPLEX RECEPTACLE -18" TO CENTER AFF	 FIRE ALARM HORN/STROBE - 80" AFF -NUMBER REPRESENTS CANDELA RATING	
 WALL PACK / SCONCE FIXTURE	 DOUBLE DUPLEX RECEPTACLE -18" TO CENTER AFF	 MANUAL PULL STATION -42" AFF	
 EXIT LIGHT -UNIVERSAL MOUNT	 DOUBLE DUPLEX RECEPTACLE ON STAND-BY POWER -18" TO CENTER AFF	 CO2 DETECTOR	
 EMERGENCY LIGHT -WALL MOUNT	 SPECIAL PURPOSE RECEPTACLE -18" TO CENTER AFF	 CONTROL MODULE	
 POLE MOUNTED EXTERIOR FIXTURE	 CORD DROP -CEILING MOUNT	 MONITORING MODULE	
	POWER		
 LOW VOLTAGE WALL SWITCH -44" TO CENTER AFF	 JUNCTION BOX -18" TO CENTER AFF	 TAMPER SWITCH	
 SINGLE POLE WALL SWITCH -44" TO CENTER AFF	 JUNCTION BOX -CEILING MOUNT	 MAIN FIRE ALARM CONTROL PANEL	
 THREE WAY WALL SWITCH -44" TO CENTER AFF	 JUNCTION BOX -FLOOR MOUNT	 BELL (120 VOLT)	
 FOUR WAY WALL SWITCH -44" TO CENTER AFF	 ADA DOOR OPERATOR -44" TO CENTER AFF	 FIRE ALARM ANNUNCIATOR PANEL	
 DIMMING WALL SWITCH -44" TO CENTER AFF	 PUSHBUTTON -44" TO CENTER AFF	SOUND/CLOCK/PAGING	
 OCCUPANCY SENSOR (SINGLE SWITCH) -44" AFF	 SPEED CONTROL SWITCH -44" TO CENTER AFF		 SPEAKER ("WP" INDICATED WEATHER PROOF) -COORDINATE MOUNTING
 OCCUPANCY SENSOR (DUAL SWITCH) -44" TO CENTER AFF	 TEMPERATURE CONTROL PANEL -PROVIDED BY DIVISION 15	 SPEAKER ("WP" INDICATED WEATHER PROOF) -96" AFF	
 OCCUPANCY SENSOR -CEILING MOUNT		COMMUNICATION	
 PHOTO CELL	 X EQUALS FUSE SIZE Y EQUALS DISCONNECT SIZE	 INFORMATION OUTLET -18" TO CENTER AFF	
 LIGHTING CONTROL PANEL	 EQUIPMENT NAME PER SCHEDULE EQUIPMENT # PER SCHEDULE	 INFORMATION OUTLET -FLOOR MOUNT	
 ROOM LIGHTING CONTROLLER	 POWER PANELBOARD (SURFACE MOUNT) -WALL MOUNT AT 74" AFF TO TOP	SECURITY	
	 GROUND		 CARD READER -44" TO CENTER AFF
	 POWER PANELBOARD (FLUSH MOUNT) -WALL MOUNT AT 74" AFF TO TOP	 DOOR POSITION SWITCH	
		 DOOR LOCK	
ABBREVIATIONS			
EC ELECTRICAL CONTRACTOR	DAC DUCTLESS AIR CONDITIONER	GFI GROUND FAULT INTERRUPTER	OHD OVERHEAD DOOR OPERATOR
MC MECHANICAL CONTRACTOR	DF DESTRATIFICATION FAN	GRD GROUND	RTU ROOF TOP UNIT
PC PLUMBING CONTRACTOR	DMCP DOM. WATER CIRC. PUMP	GWH GAS WATER HEATER	SCBA TANK FILL
GC GENERAL CONTRACTOR	EF EXHAUST FAN	H KITCHEN HOOD	SG STEAM GENERATOR
AIR AIR COMPRESSOR	ELM ELEVATOR MOTOR	LIFT HOSE LIFT	SP SUMP PUMP
B BOILER	EXT EXTRACTOR	MAU MAKE-UP AIR UNIT	UH UNIT HEATER
CP CIRCULATING PUMP			WP WEATHER PROOF



- ELECTRICAL NOTES:
- E.C. SHALL PROVIDE SCHEDULE 40 PVC CONDUIT FOR ALL EXTERIOR LOCATIONS UNLESS NOTED OTHERWISE.
 - PROVIDE PULL STRING IN ALL EMPTY CONDUITS.
 - PROVIDE HANDHOLES AS REQUIRED FOR UNDERGROUND CONDUIT RUNS.
- PROPOSED LOCATION FOR NEW UTILITY CO. TRANSFORMER, GENERATOR, CT & METER. REFER TO ONE-LINE DIAGRAM ON SHEET 1/E203 FOR ADDITIONAL INFORMATION. COORDINATION REQUIRED WITH XCEL AND THE CIVIL PLANS.
 - PROVIDE (2) 2" C. FROM IT ROOM TO HANDHOLE FOR FIBER OPTICS. COORDINATE WITH UTILITY COMPANY AND THE CIVIL PLANS FOR EXACT LOCATION OF TERMINATION.
 - CONDUCTORS TO BE (2) #10 + (1) #10 GND. IN 1" SCHEDULE 40 HDPE CONDUIT FROM POLES TO MDP AND PANEL C (VEHICLE PLUG INS). VERIFY VOLTAGE DROP ON ACTUAL ROUTES AND SIZE CONDUCTORS ACCORDINGLY. POLE LUMINAIRES ARE CONTROLLED BY INTERNAL SENSORS AND PROGRAMMED BY A REMOTE. CIRCUIT TO MDP-31. PROVIDE A QUAD GFI/MP RECEPTACLE AT EACH PULL BASE FOR VEHICLE PLUG INS. CIRCUIT TO C-15 AT FIRST POLE AND C-17 AT SECOND POLE.
 - FLAG POLE LIGHTS (BY OTHERS) TO BE ON FROM DUSK TO DAWN. CONDUCTORS TO BE (2) #10 + (1) #10 GND. IN 1" SCHEDULE 40 HDPE TO HANDHOLE AND FROM HANDHOLE TO FLAG POLE. CIRCUIT TO MDP-31, CR-5. COORDINATE LOCATION WITH CIVIL PLANS.
 - PROVIDE 1" SCHEDULE 40 HDPE CONDUIT FROM HANDHOLES TO PANEL C FOR FUTURE ELECTRICAL VEHICLE PLUG INS. FINAL LOCATION TBD.

NOTE:
PLUMBING, MECHANICAL AND ELECTRICAL CONTRACTORS SHALL COORDINATE WITH ONE ANOTHER ALONG WITH OTHER TRADES BEFORE BEGINNING ANY INSTALLATION AND CONTINUING THROUGHOUT PROJECT.



- NOTES:
- PROVIDE INLINE FUSES IN EACH UNGROUNDED CONDUCTOR WITHIN POLE BASE HANDHOLE. CONDUCTORS IN POLE TO LUMINAIRES SHALL BE #10 THIN. EACH POLE SHALL BE PROVIDED WITH 3/4"x10" COPPER CLAD GROUND ROD DRIVEN TO 6" BELOW GRADE AND BONDED TO POLE, ANCHOR BOLTS, LUMINAIRES, AND REINFORCING STEEL WITH 1-#10 AWG COPPER BONDING JUMPER.

2 TYP. POLE BASE DETAIL
E100 NOT TO SCALE

LA-CROSSE
WISCONSIN

CITY OF LA CROSSE
La Crosse, WI

LA CROSSE FIRE
STATION #2

BID SET

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NO. REVISIONS DATE

DWG. TITLE
ELECTRICAL SITE PLAN

0 5 2'
GENERIC SCALE BAR
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 11.04.2021
SCALE As indicated
DWNL PDK CHK. PDK
PROJ. No. 601804
DWG. No.

E100

APEX
Engineering

Eau Claire, Wisconsin
Telephone: 715-835-7736
Web: apexengineering.biz
Project No.: 20079

1 ELECTRICAL SITE PLAN
E100 1/16"= 1'-0"



SECTION 26 56 00
EXTERIOR LIGHTING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Exterior luminaires, egress fixtures, and accessories.
- B. Lamps.
- C. Poles.

1.02 RELATED REQUIREMENTS

- A. Division 3 - Cast-in-Place Concrete: Foundations for poles.

1.03 REFERENCE STANDARDS

- A. ANSI C78.379 - American National Standard for Electric Lamps -- Reflector Lamps -- Classification of Beam Patterns; 2006.
- B. ANSI C82.1 - American National Standard for Lamp Ballast - Line Frequency Fluorescent Lamp Ballast; 2004.
- C. ANSI C82.4 - American National Standard for Ballasts for High-Intensity-Discharge and Low Pressure Sodium Lamps (Multiple-Supply Type); 2002.
- D. ANSI O5.1 - American National Standard for Wood Poles -- Specifications and Dimensions; 2002.
- E. IESNA LM-63 - ANSI Approved Standard File Format for Electronic Transfer of Photometric Data and Related Information; 2002.
- F. IESNA RP-8 - American National Standard Practice for Roadway Lighting; Illuminating Engineering Society of North America; 2000(R2005) (ANSI/IES RP8).
- G. NECA/IESNA 501 - Recommended Practice for Installing Exterior Lighting Systems; 2006.
- H. NFPA 70 - National Electrical Code; National Fire Protection Association; 2017.

1.04 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Furnish bolt templates and pole mounting accessories to installer of pole foundations.

1.05 SUBMITTALS

- A. See Division 1 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate dimensions and components for each luminaire that is not a standard product of the manufacturer.

- C. Product Data: Provide dimensions, ratings, and performance data.
 - 1. Photometric Data: Submit on CD or DVD, in IESNA LM-63 standard format.
- D. Test Reports: Indicate measured illumination levels.
- E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.
- F. Maintenance Data: For each luminaire.
- G. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
 - 1. See Division 1 - Product Requirements, for additional provisions.
 - 2. Extra Lamps: One of each type and wattage.
 - 3. Furnish touch-up paint. (Verify quantity.)

1.06 QUALITY ASSURANCE

- A. Conform to requirements of NFPA 70.
- B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.
- C. Electrical Components: Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

1.07 DELIVERY, STORAGE, AND HANDLING

- A. Store and handle solid wood poles in accordance with ANSI O5.1.

PART 2 PRODUCTS

2.01 LUMINAIRES

- A. Furnish products as indicated in Schedule on drawings.
- B. Substitutions: See Division 1 - Product Requirements.

2.02 LUMINAIRES

- A. Lamp Types: As specified for each luminaire.
 - 1. Substitutions: See Division 1 - Product Requirements.

2.03 LAMPS

- A. Furnish products as indicated in Schedule on drawings:
 - 1. Substitutions: See Division 1 - Product Requirements.

2.04 POLES

- A. Furnish products as indicated in Schedule on drawings.
 - 1. Substitutions: See Division 1 - Product Requirements.
- B. Poles: Steel with prime finish for field painting.
 - 1. Shape: As indicated on drawings.
 - 2. Base Diameter: As indicated on drawings.
 - 3. Height: As indicated on drawings.
 - 4. Base: As indicated on drawings.
 - 5. Accessories:
 - a. Handhole.
 - b. Anchor bolts.
 - 6. Loading Capacity Ratings: As required per location.
 - 7. Substitutions: See Division 1 - Product Requirements.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install fixtures securely, in a neat and workmanlike manner, as specified in NECA 501.
- B. Provide concrete bases for lighting poles at locations indicated, in accordance with Division 1.
- C. Install poles plumb.
 - 1. Provide shims to adjust plumb.
 - 2. Grout around each base.
- D. Install lamps in each luminaire.
- E. Bond luminaires, metal accessories, and metal poles to branch circuit equipment grounding conductor. Provide supplementary grounding electrode at each pole.

3.02 FIELD QUALITY CONTROL

- A. Operate each luminaire after installation and connection. Inspect for improper connections and operation.

3.03 ADJUSTING

- A. Aim and adjust luminaires to provide illumination levels and distribution indicated on Drawings.

3.04 CLEANING

- A. Clean electrical parts to remove conductive and deleterious materials.
- B. Remove dirt and debris from enclosure.
- C. Clean photometric control surfaces as recommended by manufacturer.
- D. Clean finishes and touch up damage.

3.05 CLOSEOUT ACTIVITIES

- A. Relamp luminaires that have failed lamps at Substantial Completion.

3.06 SCHEDULE – On Drawings.

END OF SECTION

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Distributions [page 5](#)
- Product Specifications [page 5](#)
- Energy and Performance Data [page 6](#)
- Control Options [page 10](#)

Product Certifications



Resources



Quick Facts

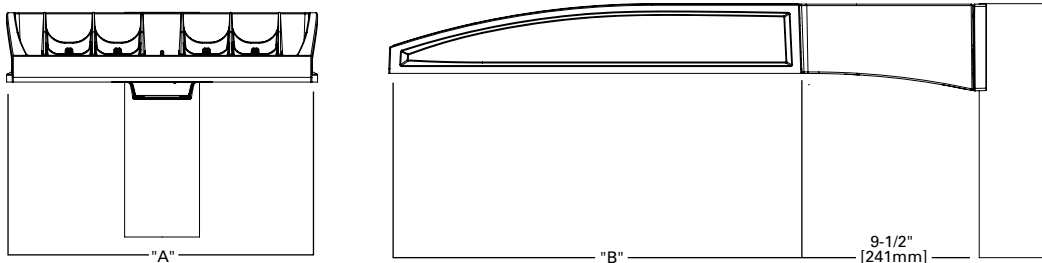
- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 16 optical distributions
- Efficacy up to 159 lumens per watt

Connected Systems

- WaveLinX Lite
- WaveLinX

Dimensional Details

Standard Arm



Number of Light Squares	Width "A"	Housing Length "B"	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1


NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

Ordering Information

SAMPLE NUMBER: GALN-SA4C-740-U-T4FT-GM

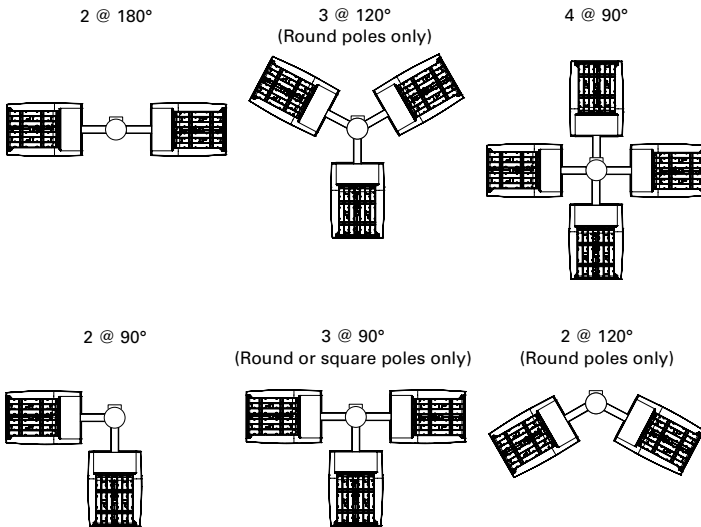
Product Family ^{1,2}	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GALN =Galleon II	SA1 =1 Square SA2 =2 Squares SA3 =3 Squares SA4 =4 Squares SA5 =5 Squares SA6 =6 Squares SA7 =7 Squares SA8 =8 Squares SA9 =9 Squares	A =600mA B =800mA C =1000mA D =1200mA ^{4,17}	722 =70CRI, 2200K 727 =70CRI, 2700K 730 =70CRI, 3000K 735 =70CRI, 3500K 740 =70CRI, 4000K 750 =70CRI, 5000K 760 =70CRI, 6000K 827 =80CRI, 2700K 830 =80CRI, 3000K AMB =Amber, 590nm ^{15,17}	U =120-277V H =347V-480V ⁷ 1 =120V 2 =208V 3 =240V 4 =277V 8 =480V ⁷ 9 =347V ⁷	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	[Blank] =Standard Pole Mount Arm QM =Standard Pole Mount Arm with Quick Mount Adaptor PA =Pole Mount, Adjustable SP =Slipfitter, Adjustable ⁸ MA =Mast Arm, Fixed WM =Wall Mount, Fixed WA =Wall Mount, Adjustable UP =Upswept Arm	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)			Accessories (Order Separately)	
DIM =External 0-10V Dimming Leads ²⁰ F =Single Fuse (120, 277 or 347V Specify Voltage) FF =Double Fuse (208, 240 or 480V Specify Voltage) 20K =20kV UL 1449 fused surge protective device ¹⁰ 2L =Two Circuits ¹⁰ HA =50°C High Ambient HSS =Installed House Side Shield ¹⁸ GRSBK =Glare Reducing Shield, Black ²³ GRSWH =Glare Reducing Shield, White ²³ LCF =Light Square Trim Painted to Match Housing ²⁶ TH =Tool-less Door Hardware ⁵ CC =Coastal Construction finish ³ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right 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 DALI =DALI Drivers			BPC =Button Type Photocontrol ⁶ PR =NEMA 3-PIN Photocontrol Receptacle PR7 =NEMA 7-PIN Photocontrol Receptacle ²¹ SPB2 =Dimming Motion Sensor, 9'-20' mounting ²⁴ SPB4 =Dimming Motion Sensor, 21'-40' mounting ²⁴ SPB2/X =Dimming Motion Sensor, limited square count, 9'-20' mounting ²⁴ SPB4/X =Dimming Motion Sensor, limited square count, 21'-40' mounting ²⁴ ZW =WaveLinX Module and 4-PIN Receptacle ¹⁹ ZD =WaveLinX Module with DALI driver and 4-PIN Receptacle ¹⁹ ZW-SWPD4XX =WaveLinX Sensor Only, 7-15ft ^{19,12,13} ZW-SWPD5XX =WaveLinX Sensor Only, 15-40ft ^{19,12,13} ZW-WOBXX =WaveLinX Sensor with Bluetooth, 7-15ft ^{19,12,13} ZW-WOFXX =WaveLinX Sensor with Bluetooth, 15-40ft ^{19,12,13} ZD-SWPD4XX =WaveLinX Sensor Only, 7-15ft ^{19,12,13} ZD-SWPD5XX =WaveLinX Sensor Only, 15-40ft ^{19,12,13} ZD-WOBXX =WaveLinX Sensor with Bluetooth, 7-15ft ^{19,12,13} ZD-WOFXX =WaveLinX Sensor with Bluetooth, 15-40ft ^{19,12,13} DIM10-MS/DIM-L20 =Synapse Occupancy Sensor (9'-20' Mounting) ¹⁹ DIM10-MS/DIM-L40 =Synapse Occupancy Sensor (21'-40' Mounting) ¹⁹			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 SRA238 =Adapter kit for mounting to 2-3/8" O.D. Tenon LS/HSS =Field Installed House Side Shield ^{9,18} LS/GRSBK =Glare Reducing Shield, Black ^{9,23} LS/GRSWH =Glare Reducing Shield, White ^{9,23} LS/PFS =Perimeter Shield, Black ¹⁶ WOLC-7P-10A =WaveLinX Outdoor Control Module ^{11,19} WOA-XX =WaveLinX Wireless Sensor, 7'-15' Mounting Height ^{12,13,14,19} WOE-XX =WaveLinX Wireless Sensor, 15'-40' Mounting Height ^{12,13,14,19}	
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. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option. 4. Drive current 1200mA not available with color temperatures 722, 727 or 830 when either HA or HSS options are selected. 5. TH option not 3G rated. Not available with Coastal Construction (CC) option. 6. Not available with voltage options H, 8 or 9. 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. Adjustable Slipfitter arm limited to vertical 3" tenon. For mounting to 2-3/8" O.D. tenons, order accessory SRA238. 9. One required for each Light Square. 10. 2L is not available with SPB at 347V or 480V. Not available with WaveLinX or Enlighted sensors, or 20kV surge option. 11. Requires PR7. 12. Replace XX with sensor color (WH, BZ or BK.) 13. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. WAC not required for LC Bluetooth sensors. 14. Requires ZW or ZD receptacle. 15. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 16. Set of 4 pcs. One set required per Light Square. 17. Not available with HA option. 18. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected. 19. Cannot be used with other control options. 20. Low voltage control lead brought out 18" outside fixture. Not available with DALI or integrated controls options 21. Not available if any SPB, LWR, or WaveLinX sensor is selected. Motion sensor has an integral photocell. 22. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. 23. Not for use with T4FT, T4W or SL4 optics. See IES files for details. 24. Sensor configuration mobile application required for configuration. See controls page for details. 25. Replace X with number of Light Squares controlled by the SPB, referencing the "SPB/X Availability Table" on the controls page. 26. Not available with HSS, GRSWH or GRSBK.							

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

Product Family	Camera Type	Data Backhaul
L =LumenSafe Technology 	D =Standard Dome Camera H =Hi-Res Dome Camera Z =Remote PTZ Camera	C =Cellular, No SIM A =Cellular, AT&T V =Cellular, Verizon S =Cellular, Sprint R =Cellular, Rogers W =Wi-Fi Networking w/ Omni-Directional Antenna E =Ethernet Networking

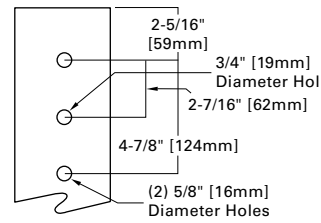
Mounting Details

Pole Configuration Options

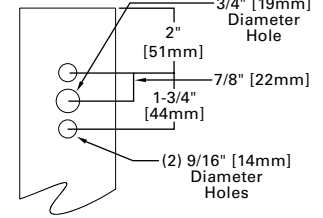


Pole Drilling Patterns

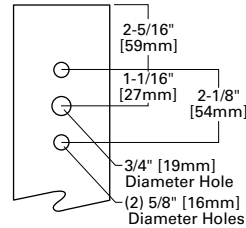
Type "M"



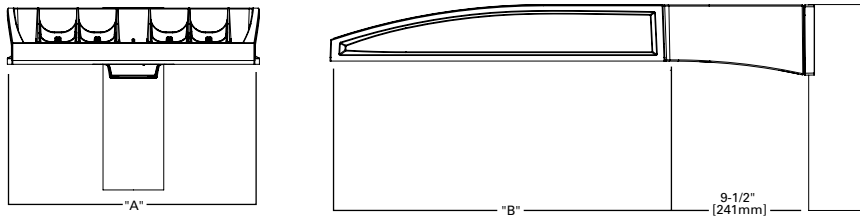
Type "N"



Type "R"

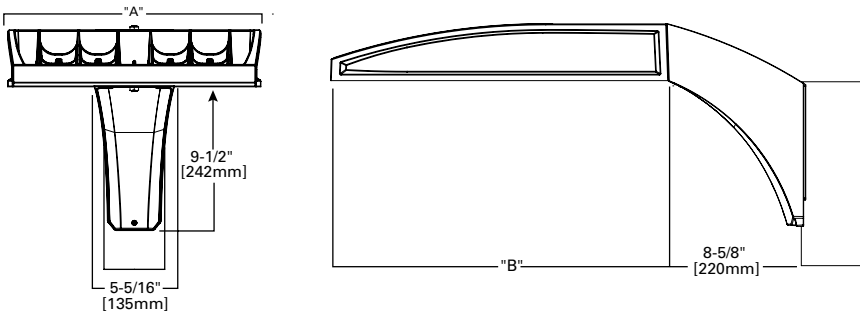


Quick Mount Arm (QM) *



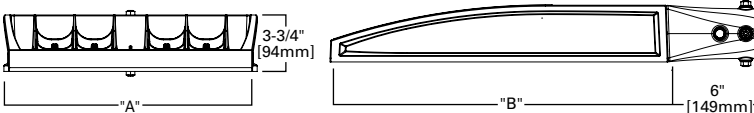
*NOTE: Use Type N drilling pattern

Upswept Arm (UP) *

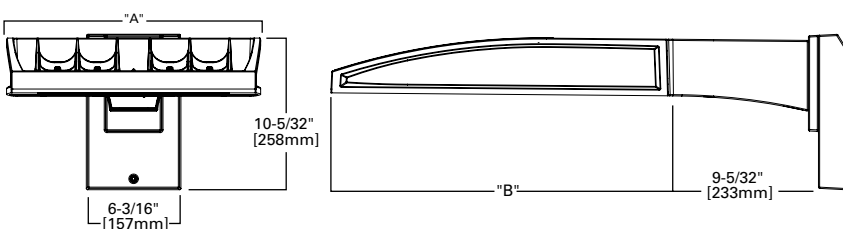


*NOTE: Use Type N, R or M drilling pattern

Mast Arm, Fixed (MA)

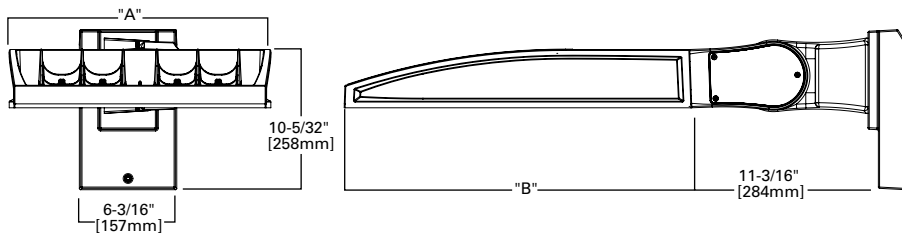


Wall Mount, Fixed (WM)

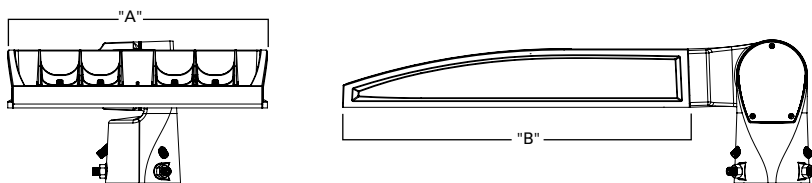


Mounting Details

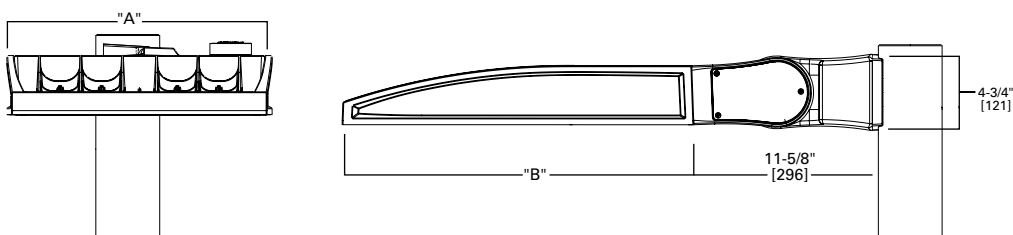
Wall Mount, Adjustable (WA)



Slipfitter, Adjustable (SP)

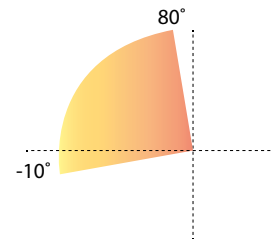


Pole Mount, Adjustable Arm (PA)



Adjustable Arm Range of Motion

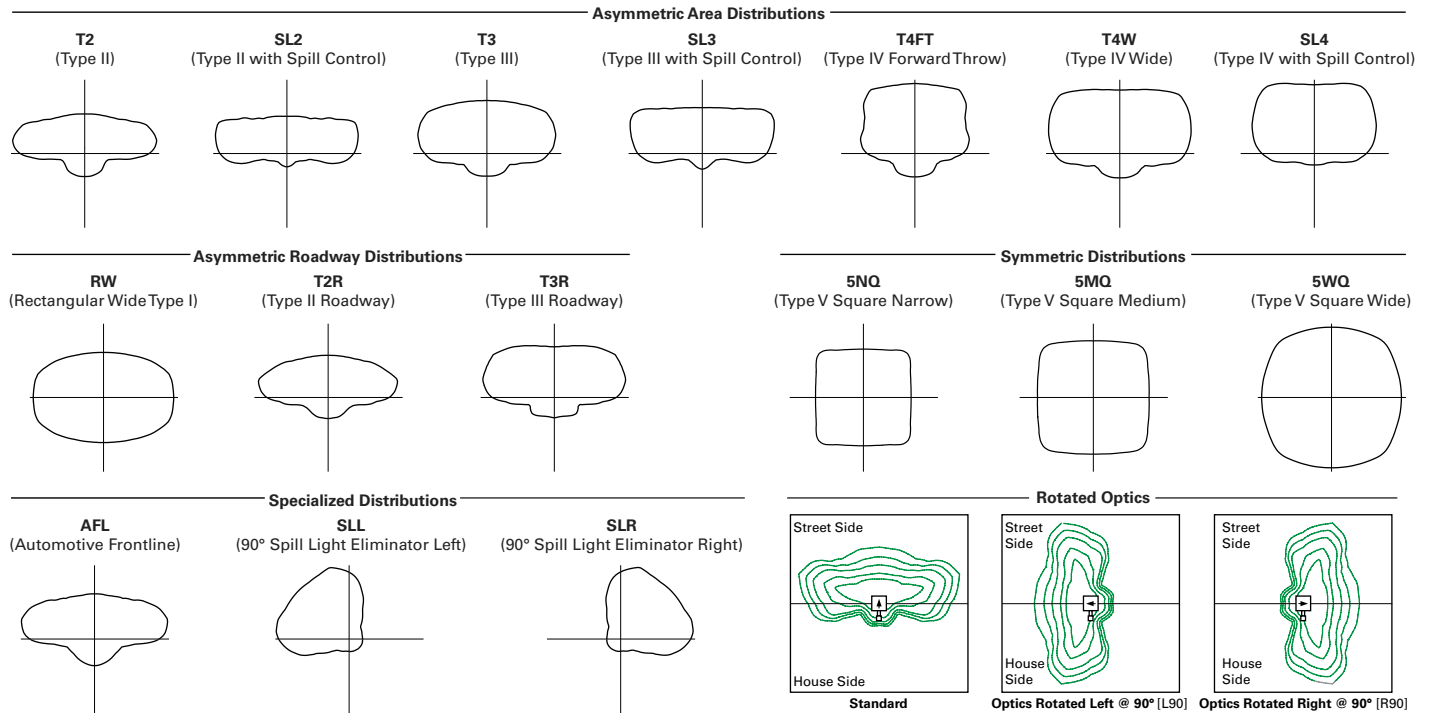
- Wall Mount (WA), Slipfitter (SP) and Pole Mount (PA)
- Adjustable in increments of 5°
- Must maintain downward facing orientation



Fixture Weights and EPAs

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	33.5 lb (15.2 kg)	0.85	1.70	1.46	1.66	2.31	2.25	2.35
	5-6	43.5 lb (19.7 kg)	0.86	1.71	1.62	1.80	2.49	2.35	2.50
	7-9	52.5 lb (23.8 kg)	0.98	1.95	1.75	1.98	2.73	2.55	2.76
15°	1-4	33.5 lb (15.2 kg)	1.10	1.71	1.95	2.26	2.81	3.30	2.87
	5-6	43.5 lb (19.7 kg)	1.42	1.71	2.27	2.72	3.13	3.63	3.15
	7-9	52.5 lb (23.8 kg)	1.69	1.96	2.67	3.22	3.65	4.38	3.72
30°	1-4	33.5 lb (15.2 kg)	1.72	1.81	2.58	3.21	3.44	4.59	3.53
	5-6	43.5 lb (19.7 kg)	2.26	2.29	3.11	4.00	3.97	5.27	4.00
	7-9	52.5 lb (23.8 kg)	2.75	2.85	3.73	4.83	4.71	6.45	4.81
45°	1-4	33.5 lb (15.2 kg)	2.25	2.36	3.10	4.00	3.96	5.63	4.08
	5-6	43.5 lb (19.7 kg)	2.96	2.99	3.81	5.06	4.67	6.49	4.71
	7-9	52.5 lb (23.8 kg)	3.63	3.76	3.73	6.17	5.59	8.03	5.73
60°	1-4	33.5 lb (15.2 kg)	2.63	2.77	3.49	4.58	4.34	6.21	4.48
	5-6	43.5 lb (19.7 kg)	3.46	3.51	4.32	5.84	5.19	7.01	5.22
	7-9	52.5 lb (23.8 kg)	4.27	4.44	5.25	7.15	6.23	8.80	6.40

Optical Distributions



Product Specifications

Construction

- Die-cast aluminum housing and heat sink
- Three housing sizes, using 1 to 9 light squares

Optics

- High-efficiency injection-molded AccuLED Optics technology
- 16 optical distributions for area site and roadway applications
- 3 shielding options include HSS, GRS and PFS
- IDA certified (3000K CCT and warmer only, arms at 0° tilt)

Electrical

- Removable power tray assembly includes drivers, surge modules and control modules for ease of maintenance and serviceability

- Standard with 0-10V dimming
- Standard with 10kV surge module, optional 20kV surge module
- Suitable for operation in -40°C to 40°C ambient environments. Optional 50°C high ambient (HA) configuration

Mounting

- Arms are factory installed, enabling closed-housing installation
- All arms suitable for round or square pole installation
- All arms provide clearance for multiple fixture installations at 90°

Finish

- 6 standard finishes use super durable TGIC polyester powder coat paint, providing 2.5 mil nominal thickness and salt-spray tested to 3,000 hours per ASTM B117
- RAL and custom color matches available
- Coastal Construction (CC) option salt-spray tested to 5,000 hours per ASTM B117, achieving a scribe rating of 9 per ASTM D1654

Warranty

- Five year limited warranty

Energy and Performance Data

Lumen Maintenance (TM-21)

Drive Current	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
Up to 1A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.7%	98.3%	98.1%	97.4%	> 1.9M
	50°C	98.2%	97.2%	96.8%	95.2%	> 851,000
1.2A	25°C	99.4%	99.0%	98.9%	98.3%	> 2.4M
	40°C	98.5%	97.9%	97.7%	96.7%	> 1.3M

* Supported by IES TM-21 standards

** Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

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

Performance Table, Drive Current "A" (615mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		33	63	93	121	154	182	215	244	274
Input Current @ 120V		0.283	0.529	0.778	1.058	1.310	1.556	1.839	2.089	2.335
Input Current @ 208V		0.165	0.309	0.460	0.618	0.771	0.919	1.082	1.240	1.379
Input Current @ 240V		0.143	0.270	0.398	0.540	0.671	0.796	0.944	1.078	1.194
Input Current @ 277V		0.125	0.237	0.352	0.473	0.581	0.705	0.818	0.962	1.057
Input Current @ 347V		0.098	0.181	0.272	0.362	0.454	0.544	0.636	0.738	0.816
Input Current @ 480V		0.073	0.133	0.200	0.267	0.335	0.400	0.470	0.554	0.600
Optics										
T2	4000K Lumens	4,654	9,249	13,730	18,194	23,032	27,273	32,034	37,138	41,694
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	141	147	148	150	150	150	149	152	152
T2R	4000K Lumens	4,716	9,372	13,913	18,437	23,340	27,637	32,462	37,634	42,251
	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
	Lumens per Watt	143	149	150	152	152	152	151	154	154
T3	4000K Lumens	4,589	9,120	13,538	17,940	22,711	26,892	31,587	36,620	41,112
	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-G4
	Lumens per Watt	139	145	146	148	147	148	147	150	150
T3R	4000K Lumens	4,735	9,411	13,970	18,513	23,436	27,751	32,596	37,790	42,425
	BUG Rating	B1-U0-G1	B1-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	143	149	150	153	152	152	152	155	155
T4FT	4000K Lumens	4,617	9,176	13,622	18,051	22,851	27,058	31,782	36,847	41,366
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	140	146	146	149	148	149	148	151	151
T4W	4000K Lumens	4,631	9,203	13,662	18,104	22,918	27,138	31,876	36,955	41,488
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4
	Lumens per Watt	140	146	147	150	149	149	148	151	151
SL2	4000K Lumens	4,619	9,180	13,627	18,058	22,860	27,069	31,795	36,861	41,383
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5
	Lumens per Watt	140	146	147	149	148	149	148	151	151
SL3	4000K Lumens	4,586	9,115	13,531	17,931	22,699	26,879	31,571	36,602	41,091
	BUG Rating	B1-U0-G1	B1-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	139	145	145	148	147	148	147	150	150
SL4	4000K Lumens	4,529	9,002	13,363	17,708	22,417	26,544	31,178	36,146	40,580
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	137	143	144	146	146	146	145	148	148
5NQ	4000K Lumens	4,829	9,598	14,247	18,880	23,901	28,301	33,242	38,539	43,266
	BUG Rating	B2-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
	Lumens per Watt	146	152	153	156	155	155	155	158	158
5MQ	4000K Lumens	4,853	9,645	14,318	18,974	24,020	28,442	33,407	38,731	43,482
	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
	Lumens per Watt	147	153	154	157	156	156	155	159	159
5WQ	4000K Lumens	4,843	9,625	14,288	18,934	23,969	28,382	33,337	38,649	43,390
	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
	Lumens per Watt	147	153	154	156	156	156	155	158	158
SLL/ SLR	4000K Lumens	3,989	7,927	11,768	15,594	19,741	23,375	27,456	31,831	35,736
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	121	126	127	129	128	128	128	130	130
RW	4000K Lumens	4,774	9,488	14,085	18,665	23,628	27,979	32,863	38,100	42,774
	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
	Lumens per Watt	145	151	151	154	153	154	153	156	156
AFL	4000K Lumens	4,673	9,286	13,785	18,268	23,126	27,384	32,164	37,290	41,864
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3
	Lumens per Watt	142	147	148	151	150	150	150	153	153

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "B" (800mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		44	82	121	164	204	243	286	325	364
Input Current @ 120V		0.367	0.689	1.014	1.378	1.704	2.027	2.393	2.716	3.041
Input Current @ 208V		0.213	0.401	0.594	0.802	0.997	1.188	1.400	1.605	1.782
Input Current @ 240V		0.184	0.347	0.510	0.694	0.860	1.021	1.210	1.386	1.531
Input Current @ 277V		0.160	0.303	0.449	0.605	0.757	0.898	1.065	1.242	1.347
Input Current @ 347V		0.125	0.235	0.355	0.471	0.592	0.710	0.828	0.958	1.065
Input Current @ 480V		0.092	0.172	0.258	0.344	0.432	0.517	0.605	0.706	0.775
Optics										
T2	4000K Lumens	5,790	11,508	17,083	22,638	28,658	33,935	39,859	46,210	51,879
	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
	Lumens per Watt	132	140	141	138	140	140	139	142	143
T2R	4000K Lumens	5,868	11,662	17,311	22,941	29,041	34,388	40,391	46,827	52,572
	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	B3-U0-G5
	Lumens per Watt	133	142	143	140	142	142	141	144	144
T3	4000K Lumens	5,710	11,347	16,845	22,322	28,258	33,461	39,303	45,565	51,155
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5
	Lumens per Watt	130	138	139	136	139	138	137	140	141
T3R	4000K Lumens	5,892	11,710	17,383	23,035	29,161	34,530	40,558	47,020	52,788
	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
	Lumens per Watt	134	143	144	140	143	142	142	145	145
T4FT	4000K Lumens	5,745	11,418	16,949	22,460	28,433	33,668	39,546	45,847	51,471
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
T4W	4000K Lumens	5,762	11,451	16,999	22,526	28,517	33,767	39,662	45,982	51,622
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	131	140	140	137	140	139	139	141	142
SL2	4000K Lumens	5,747	11,422	16,956	22,469	28,444	33,681	39,561	45,865	51,491
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	131	139	140	137	139	139	138	141	141
SL3	4000K Lumens	5,707	11,342	16,836	22,311	28,244	33,444	39,283	45,542	51,129
	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
	Lumens per Watt	130	138	139	136	138	138	137	140	140
SL4	4000K Lumens	5,636	11,201	16,627	22,034	27,893	33,028	38,794	44,976	50,493
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	128	137	137	134	137	136	136	138	139
5NQ	4000K Lumens	6,009	11,942	17,727	23,492	29,739	35,214	41,362	47,953	53,835
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
	Lumens per Watt	137	146	147	143	146	145	145	148	148
5MQ	4000K Lumens	6,039	12,001	17,816	23,609	29,887	35,389	41,568	48,191	54,103
	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
	Lumens per Watt	137	146	147	144	147	146	145	148	149
5WQ	4000K Lumens	6,026	11,976	17,778	23,559	29,824	35,315	41,480	48,090	53,989
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	137	146	147	144	146	145	145	148	148
SLL/ SLR	4000K Lumens	4,963	9,863	14,642	19,403	24,563	29,085	34,163	39,607	44,465
	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
	Lumens per Watt	113	120	121	118	120	120	119	122	122
RW	4000K Lumens	5,940	11,806	17,526	23,224	29,400	34,813	40,891	47,407	53,222
	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
	Lumens per Watt	135	144	145	142	144	143	143	146	146
AFL	4000K Lumens	5,814	11,555	17,153	22,730	28,775	34,073	40,021	46,398	52,090
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4
	Lumens per Watt	132	141	142	139	141	140	140	143	143

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "C" (1050mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		57	108	160	213	269	321	377	429	481
Input Current @ 120V		0.478	0.905	1.338	1.810	2.244	2.675	3.150	3.584	4.013
Input Current @ 208V		0.279	0.532	0.780	1.064	1.313	1.559	1.845	2.093	2.339
Input Current @ 240V		0.243	0.458	0.664	0.916	1.123	1.328	1.582	1.788	1.991
Input Current @ 277V		0.213	0.404	0.582	0.808	0.997	1.164	1.401	1.589	1.745
Input Current @ 347V		0.164	0.322	0.471	0.644	0.795	0.943	1.117	1.269	1.414
Input Current @ 480V		0.121	0.235	0.341	0.469	0.579	0.681	0.814	0.923	1.022
Optics										
T2	4000K Lumens	7,154	14,219	21,107	27,970	35,408	41,927	49,247	57,094	64,098
	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
	Lumens per Watt	126	132	132	131	132	131	131	133	133
T2R	4000K Lumens	7,250	14,408	21,389	28,344	35,881	42,487	49,905	57,857	64,954
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	127	133	134	133	133	132	132	135	135
T3	4000K Lumens	7,054	14,020	20,812	27,580	34,914	41,342	48,560	56,297	63,203
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
T3R	4000K Lumens	7,280	14,468	21,477	28,461	36,029	42,663	50,111	58,096	65,222
	BUG Rating	B1-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
	Lumens per Watt	128	134	134	134	134	133	133	135	136
T4FT	4000K Lumens	7,098	14,107	20,941	27,751	35,130	41,598	48,860	56,646	63,594
	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
	Lumens per Watt	125	131	131	130	131	130	130	132	132
T4W	4000K Lumens	7,119	14,148	21,003	27,832	35,233	41,720	49,004	56,812	63,781
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5	B5-U0-G5
	Lumens per Watt	125	131	131	131	131	130	130	132	133
SL2	4000K Lumens	7,101	14,112	20,949	27,761	35,144	41,614	48,879	56,668	63,619
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	125	131	131	130	131	130	130	132	132
SL3	4000K Lumens	7,051	14,013	20,802	27,566	34,897	41,321	48,535	56,269	63,172
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	124	130	130	129	130	129	129	131	131
SL4	4000K Lumens	6,963	13,839	20,543	27,223	34,463	40,808	47,932	55,569	62,386
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	122	128	128	128	128	127	127	130	130
5NQ	4000K Lumens	7,424	14,755	21,903	29,025	36,743	43,508	51,104	59,247	66,515
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
	Lumens per Watt	130	137	137	136	137	136	136	138	138
5MQ	4000K Lumens	7,461	14,828	22,012	29,169	36,926	43,725	51,359	59,542	66,846
	BUG Rating	B3-U0-G1	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	138	137	137	136	136	139	139
5WQ	4000K Lumens	7,445	14,797	21,966	29,108	36,849	43,633	51,250	59,417	66,705
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	131	137	137	137	137	136	136	139	139
SLL/ SLR	4000K Lumens	6,132	12,187	18,091	23,973	30,348	35,936	42,210	48,935	54,938
	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	B3-U0-G5
	Lumens per Watt	108	113	113	113	113	112	112	114	114
RW	4000K Lumens	7,340	14,587	21,653	28,694	36,325	43,013	50,522	58,573	65,757
	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
	Lumens per Watt	129	135	135	135	135	134	134	137	137
AFL	4000K Lumens	7,183	14,276	21,193	28,084	35,552	42,098	49,448	57,327	64,359
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G4
	Lumens per Watt	126	132	132	132	132	131	131	134	134

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

Performance Table, Drive Current "D" (1200mA)

Number of Light Squares		1	2	3	4	5	6	7	8	9
Nominal Power (Watts)		65	125	184	245	309	368	433	493	552
Input Current @ 120V		0.546	1.041	1.535	2.082	2.578	3.070	3.619	4.114	4.605
Input Current @ 208V		0.318	0.610	0.893	1.219	1.504	1.786	2.113	2.397	2.679
Input Current @ 240V		0.276	0.523	0.758	1.046	1.282	1.516	1.806	2.041	2.274
Input Current @ 277V		0.241	0.460	0.662	0.920	1.133	1.325	1.593	1.807	1.987
Input Current @ 347V		0.187	0.370	0.543	0.740	0.915	1.085	1.285	1.459	1.628
Input Current @ 480V		0.138	0.269	0.391	0.537	0.663	0.782	0.932	1.057	1.173
Optics										
T2	4000K Lumens	7,872	15,645	23,225	30,777	38,962	46,135	54,189	62,824	70,530
	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
	Lumens per Watt	121	125	126	126	126	125	125	127	128
T2R	4000K Lumens	7,977	15,854	23,535	31,188	39,482	46,751	54,913	63,663	71,472
	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
	Lumens per Watt	123	127	128	127	128	127	127	129	129
T3	4000K Lumens	7,762	15,427	22,901	30,348	38,418	45,491	53,433	61,947	69,546
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	119	123	124	124	124	124	123	126	126
T3R	4000K Lumens	8,010	15,920	23,632	31,317	39,645	46,944	55,139	63,925	71,767
	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
	Lumens per Watt	123	127	128	128	128	128	127	130	130
T4FT	4000K Lumens	7,810	15,522	23,043	30,535	38,655	45,772	53,763	62,330	69,976
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
T4W	4000K Lumens	7,833	15,568	23,110	30,625	38,769	45,907	53,921	62,513	70,182
	BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G5	B4-U0-G5	B5-U0-G5
	Lumens per Watt	121	125	126	125	125	125	125	127	127
SL2	4000K Lumens	7,813	15,528	23,052	30,547	38,670	45,790	53,784	62,354	70,003
	BUG Rating	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	120	124	125	125	125	124	124	126	127
SL3	4000K Lumens	7,758	15,419	22,889	30,332	38,398	45,468	53,406	61,916	69,511
	BUG Rating	B1-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
	Lumens per Watt	119	123	124	124	124	124	123	126	126
SL4	4000K Lumens	7,662	15,228	22,605	29,955	37,921	44,903	52,742	61,146	68,646
	BUG Rating	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	Lumens per Watt	118	122	123	122	123	122	122	124	124
5NQ	4000K Lumens	8,169	16,235	24,101	31,938	40,431	47,874	56,232	65,193	73,190
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
	Lumens per Watt	126	130	131	130	131	130	130	132	133
5MQ	4000K Lumens	8,210	16,316	24,221	32,097	40,632	48,113	56,512	65,517	73,554
	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
	Lumens per Watt	126	131	132	131	131	131	131	133	133
5WQ	4000K Lumens	8,192	16,282	24,170	32,029	40,546	48,011	56,393	65,379	73,399
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	126	130	131	131	131	130	130	133	133
SLL/ SLR	4000K Lumens	6,747	13,410	19,906	26,379	33,394	39,542	46,445	53,846	60,451
	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
	Lumens per Watt	104	107	108	108	108	107	107	109	110
RW	4000K Lumens	8,076	16,050	23,826	31,574	39,970	47,329	55,592	64,450	72,356
	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
	Lumens per Watt	124	128	129	129	129	129	128	131	131
AFL	4000K Lumens	7,904	15,709	23,320	30,902	39,120	46,323	54,410	63,079	70,817
	BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4
	Lumens per Watt	122	126	127	126	127	126	126	128	128

* Nominal data for 70 CRI. ** For additional performance data, please reference the Galleon Supplemental Performance Guide.

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 (BPC, PR and PR7)

Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) 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.

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 (SPB)

These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when no motion is detected. After a period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. The SPB sensor default parameters are listed in the table below, and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares. An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Three sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'. Four sensor colors are available; Bronze, Black, Gray and White, and are automatically selected based on the luminaire finish as indicated by the table below.

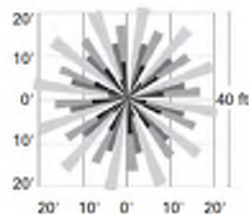
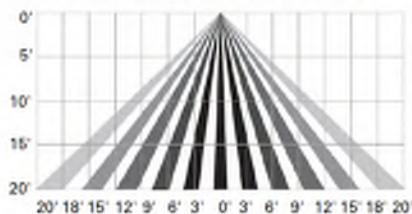
SPB sensor finish matched to luminaire finish		
Luminaire Finish		SPB Sensor Finish
WH	White	White
BK	Black	Black
GM	Graphite Metallic	Black
BZ	Bronze	Bronze
AP	Gray	Gray
DP	Dark Platinum	Gray

SPB/X Availability Table	
Fixture Square Count	Available SPB/X Square Count
1	Not Available
2	Not Available
3	Not Available
4	2
5	2 or 3
6	3
7	2, 3, 4 or 5
8	2, 3, 5 or 6
9	3 or 6

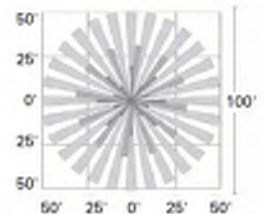
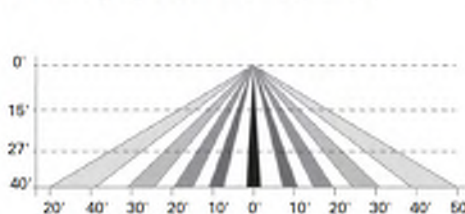
WaveLinX Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinX and WaveLinX Lite sensors utilize the Zhaga Book 18 compliant 4-PIN receptacle (ZD or ZW), while the WOLC control module utilizes a 7-PIN receptacle. ZW option provides 4-PIN receptacle and control module to enable future installation of WaveLinX sensors. ZD option provides 4-PIN receptacle and sensor-ready (SR) driver to enable future installation of WaveLinX sensors, power monitoring, and advanced functionality. WaveLinX (SWPD4 to SWPD5) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. 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 Lite (WOF and WOB) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinX Lite mobile application for set-up and configuration. WAC not required. WaveLinX Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (SWPD4 and WOB)



For mounting heights up to 40' (SWPD5 and WOF)



LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions 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.

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

Project		Catalog #		Type	
Prepared by		Notes		Date	



McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Typical Applications

Exterior Wall • Walkway

Interactive Menu

- Ordering Information [page 2](#)
- Product Specifications [page 2](#)
- Optical Configurations [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 6](#)

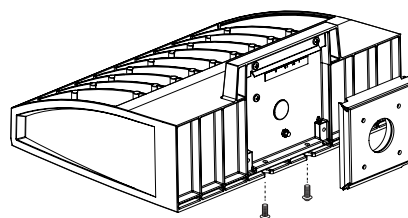
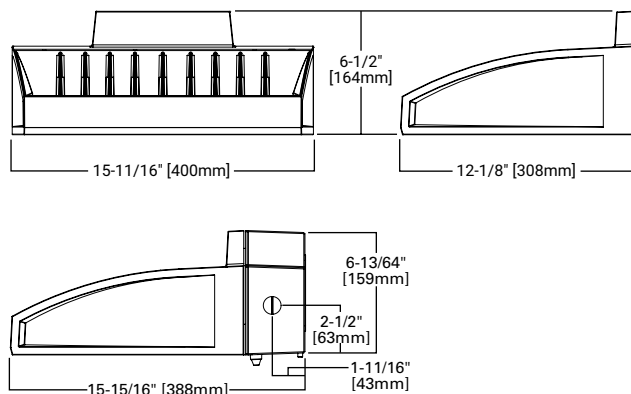
Product Certifications



Quick Facts

- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

Dimensional Details



Connected Systems

- WaveLinx
- Enlighted

Ordering Information

SAMPLE NUMBER: **GWC-SA2C-740-U-T4FT-GM**

Product Family ¹	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
GWC=Galleon Wall	SA1=1 Square SA2=2 Squares ²	A=615mA B=800mA C=1000mA D=1200mA ⁴	722=70CRI, 2200K 727=70CRI, 2700K 730=70CRI, 3000K 735=70CRI, 3500K 740=70CRI, 4000K 750=70CRI, 5000K 760=70CRI, 6000K 827=80CRI, 2700K 830=80CRI, 3000K AMB=Amber, 590nm ^{3,4}	U=120-277V 1=120V 2=208V 3=240V 4=277V 8=480V ^{6,7} 9=347V ⁶	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
Options (Add as Suffix)			Controls and Systems Options (Add as Suffix)		Accessories (Order Separately)	
F=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module 20K=Series 20kV UL 1449 Surge Protective Device DIM=External 0-10V Dimming Leads ^{9,10} CBP=Battery Pack with Back Box, Cold Weather Rated ^{2,4,14,33} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ^{2,4,14} L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right HSS=Factory Installed House Side Shield ²³ GRSBK=Factory Installed Glare Shield, BK ^{4,27} GRSWH=Factory Installed Glare Shield, WH ^{4,27} UPL=Uplight Housing ¹³ HA=50°C High Ambient ¹² LCF=Light Square Trim Plate Painted to Match Housing ²² MT=Factory Installed Mesh Top CC=Coastal Construction finish ⁵ CE=CE Marking and Small Terminal Block ²⁴ 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 DALI=DALI Driver ¹¹			BPC=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PR=NEMA 3-PIN Twistlock Photocontrol Receptacle PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ SPB1=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ^{19,34} SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting ^{19,34} SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting ^{19,34} MS-LXX=Motion Sensor for On/Off Operation ^{17,18,19} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{17,18,19} ZW=WaveLinx-enabled 4-PIN Twistlock Receptacle ^{29,30} ZD=WaveLinx Module with DALI driver and 4-PIN Receptacle ^{29,30} SWPD4XX=WaveLinx Sensor Only, 7'-15' ^{31,32} SWPD5XX=WaveLinx Sensor Only, 15'-40' ^{31,32} WOBBX=WaveLinx Sensor with Bluetooth, 7'-15' ^{31,32} WOFXX=WaveLinx Sensor with Bluetooth, 15'-40' ^{31,32} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height ^{19,20,21} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height ^{19,20,21}		OA/RA1013=Photocontrol Shorting Cap ²⁸ OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V ²⁸ OA/RA1201=NEMA Photocontrol - 347V ²⁸ OA/RA1027=NEMA Photocontrol - 480V ²⁸ MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) LS/HSS=Field Installed House Side Shield ^{23,25} LS/GRSBK=Glare Shield, Black ^{8,25,27} LS/GRSWH=Glare Shield, White ^{8,25,27} LS/PFS=Perimeter Shield, Black FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷ WOLC-7P-10A=WaveLinx Outdoor Control Module (7-pin) ^{26,29} SWPD4-XX=WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{29,30,31,32} SWPD5-XX=WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{29,30,31,32}	
NOTES: 1. DesignLight Consortium® Qualified. Refer to www.designlights.org , Qualified Products List under Family Models for details. 2. Two light squares with CBP options limited to 25°C. Not available in combination with sensor options at 1200mA. 3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 4. Not available with HA option. 5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA. 7. 480V must use Wye system only. 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). 8. Reserved. 9. Cannot be used with other control options. 10. Low voltage control leads extended 18" from fixture. 11. Not available in 1200mA. When used with CBP or HA options, only available with single light square. 12. Not available in 1200mA, UPL or CBP options. Available with single light square. 13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options. 14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC. 15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls. 16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information. 18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting). 19. Includes integral photosensor. 20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. 21. White sensor shipped on all housing color options. 22. Not available with HSS or GRS options. 23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected. 24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only. 25. One required for each light square. 26. Requires PR7. 27. Not for use with T4FT, T4W or SL4 optics. 29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR). 30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 31. Requires ZW or ZD receptacle. 32. Replace XX with sensor color (WH, BZ, or BK). 33. Specify 120V or 277V. 34. Smart device with mobile application required to change system defaults. See controls section for details.						

Product Specifications

Construction

- Driver enclosure thermally isolated from optics for optimal thermal performance
- Die-cast aluminum heat sinks
- IP66 rated housing
- 1.5G vibration rated

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions
- IDA Certified (3000K CCT and warmer only)

Electrical

- LED driver assembly mounted for ease of maintenance
- Standard with 0-10V dimming
- Optional 10kV or 20kV surge module
- Suitable for operation in -40C to 40C ambient environments. Optional 50C high ambient (HA) configuration.

Mounting

- Gasketed and zinc plated rigid steel mounting attachment

- "Hook-N-Lock" mechanism for easy installation

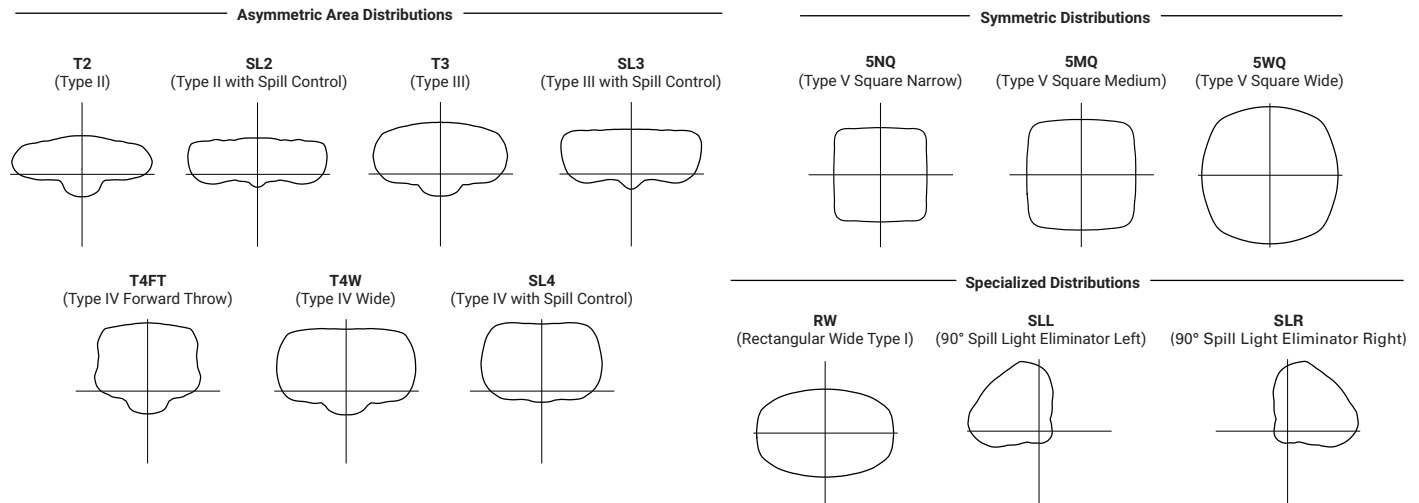
Finish

- Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Heat sink is powder coated black
- RAL and custom color matches available
- Coastal Construction (CC) option available

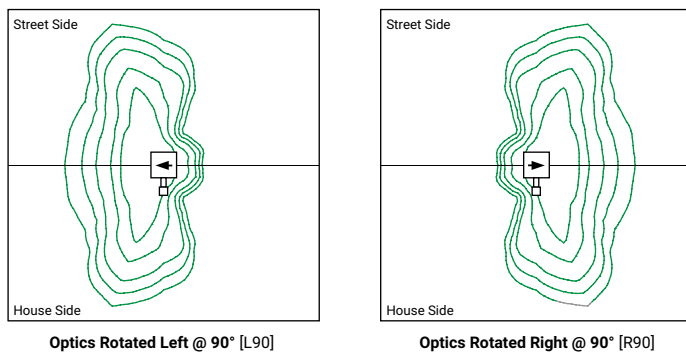
Warranty

- Five-year warranty

Optical Distributions



Optic Orientation



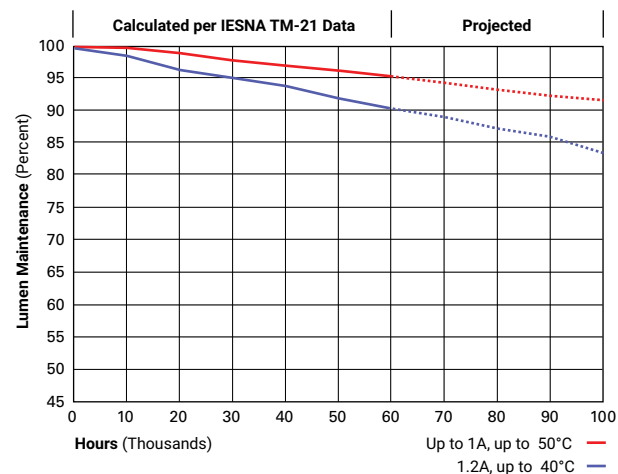
Energy and Performance Data

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

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



Energy and Performance Data

 [View GWC Galleon Wall IES files](#)

4000K/5000K/6000K CCT, 70 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	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 (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	4,883	5,989	7,412	8,131	9,543	11,703	14,485	15,891
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
	Lumens per Watt	144	136	126	121	145	136	128	123
T3	Lumens	4,978	6,105	7,556	8,288	9,729	11,929	14,764	16,196
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
T4FT	Lumens	5,008	6,140	7,599	8,337	9,783	11,998	14,850	16,290
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	147	140	129	124	148	140	131	126
T4W	Lumens	4,942	6,060	7,502	8,229	9,658	11,843	14,658	16,080
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
	Lumens per Watt	145	138	127	123	146	138	130	125
SL2	Lumens	4,874	5,979	7,399	8,117	9,528	11,684	14,461	15,863
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3
	Lumens per Watt	143	136	125	121	144	136	128	123
SL3	Lumens	4,976	6,104	7,555	8,287	9,727	11,927	14,763	16,194
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	146	139	128	124	147	139	131	126
SL4	Lumens	4,729	5,799	7,178	7,873	9,239	11,333	14,025	15,387
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4
	Lumens per Watt	139	132	122	118	140	132	124	119
5NQ	Lumens	5,134	6,296	7,793	8,547	10,033	12,303	15,226	16,704
	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
	Lumens per Watt	151	143	132	128	152	143	135	129
5MQ	Lumens	5,228	6,412	7,935	8,705	10,216	12,529	15,508	17,011
	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
	Lumens per Watt	154	146	134	130	155	146	137	132
5WQ	Lumens	5,242	6,428	7,956	8,728	10,244	12,563	15,548	17,056
	BUG Rating	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	154	146	135	130	155	146	138	132
SLL/SLR	Lumens	4,373	5,365	6,640	7,283	8,547	10,481	12,973	14,231
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	129	122	113	109	130	122	115	110
RW	Lumens	5,087	6,238	7,721	8,472	9,941	12,190	15,088	16,553
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	150	142	131	126	151	142	134	128

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

3000K CCT, 80 CRI

Number of Light Squares		1				2			
Drive Current		615mA	800mA	1050mA	1.2A	615mA	800mA	1050mA	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 (A)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (A)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	Lumens	3,880	4,759	5,890	6,461	7,583	9,300	11,510	12,628
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
T3	Lumens	3,956	4,851	6,004	6,586	7,731	9,479	11,732	12,870
	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
	Lumens per Watt	116	110	102	98	117	110	104	100
T4FT	Lumens	3,980	4,879	6,038	6,625	7,774	9,534	11,800	12,945
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	117	111	102	99	118	111	104	100
T4W	Lumens	3,927	4,816	5,961	6,539	7,675	9,411	11,648	12,778
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	116	109	101	98	116	109	103	99
SL2	Lumens	3,873	4,751	5,880	6,450	7,571	9,285	11,491	12,605
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	114	108	100	96	115	108	102	98
SL3	Lumens	3,954	4,851	6,004	6,585	7,729	9,478	11,731	12,868
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	116	110	102	98	117	110	104	100
SL4	Lumens	3,758	4,608	5,704	6,256	7,342	9,006	11,145	12,227
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3	B1-U0-G3
	Lumens per Watt	111	105	97	93	111	105	99	95
5NQ	Lumens	4,080	5,003	6,193	6,792	7,973	9,776	12,099	13,274
	BUG Rating	B2-U0-G0	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2
	Lumens per Watt	120	114	105	101	121	114	107	103
5MQ	Lumens	4,154	5,095	6,305	6,917	8,118	9,956	12,323	13,518
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	122	116	107	103	123	116	109	105
5WQ	Lumens	4,166	5,108	6,322	6,936	8,140	9,983	12,355	13,553
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	123	116	107	104	123	116	109	105
SLL/SLR	Lumens	3,475	4,263	5,276	5,787	6,792	8,329	10,309	11,309
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G3	B2-U0-G3
	Lumens per Watt	102	97	89	86	103	97	91	88
RW	Lumens	4,042	4,957	6,135	6,732	7,900	9,687	11,990	13,154
	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
	Lumens per Watt	119	113	104	100	120	113	106	102

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

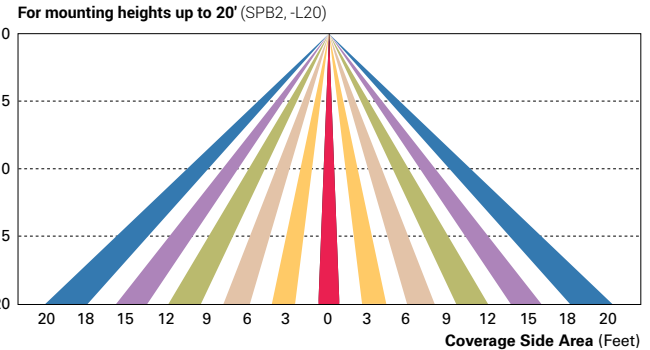
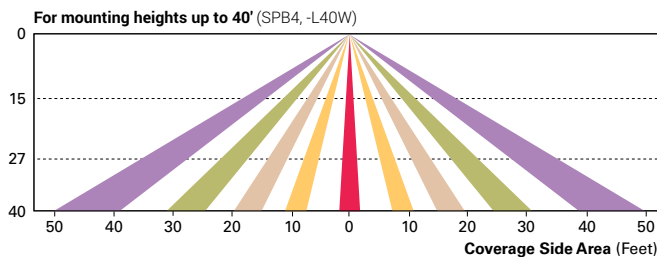
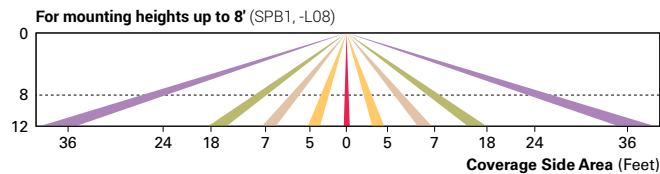
Control Options

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.

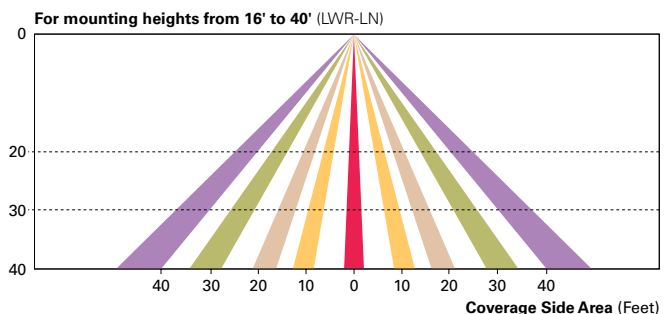
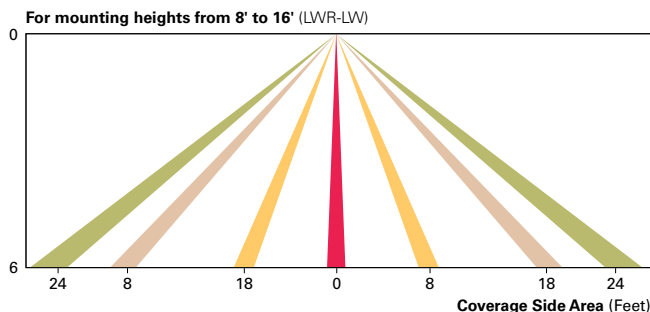
Photocontrol (BPC, PR, and PR7) Optional button-type photocontrol (BPC) and photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PR7 receptacle.

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 (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are 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. 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. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Enlighted control system is a connected lighting solution, combining LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes while collecting valuable data about building performance and use. Software applications utilizing energy dashboards maximize data inputs to help optimize the use of other 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.

LEED 2009 for New Construction and Major Renovations

Project Checklist

Project Name: LaCrosse

Date: October 19, 2021

10 6 10 Sustainable Sites Possible Points: 26

Y	?	N			
Y			Prereq 1	Construction Activity Pollution Prevention	
1			Credit 1	Site Selection	1
	5		Credit 2	Development Density and Community Connectivity	5
		1	Credit 3	Brownfield Redevelopment	1
6			Credit 4.1	Alternative Transportation—Public Transportation Access	6
1			Credit 4.2	Alternative Transportation—Bicycle Storage and Changing Rooms	1
		3	Credit 4.3	Alternative Transportation—Low-Emitting and Fuel-Efficient Vehicles	3
2			Credit 4.4	Alternative Transportation—Parking Capacity	2
		1	Credit 5.1	Site Development—Protect or Restore Habitat	1
		1	Credit 5.2	Site Development—Maximize Open Space	1
		1	Credit 6.1	Stormwater Design—Quantity Control	1
		1	Credit 6.2	Stormwater Design—Quality Control	1
		1	Credit 7.1	Heat Island Effect—Non-roof	1
	1		Credit 7.2	Heat Island Effect—Roof	1
		1	Credit 8	Light Pollution Reduction	1

4 4 2 Water Efficiency Possible Points: 10

Y	?	N			
Y			Prereq 1	Water Use Reduction—20% Reduction	
4			Credit 1	Water Efficient Landscaping	2 to 4
		2	Credit 2	Innovative Wastewater Technologies	2
	4		Credit 3	Water Use Reduction	2 to 4

21 14 Energy and Atmosphere Possible Points: 35

Y	?	N			
Y			Prereq 1	Fundamental Commissioning of Building Energy Systems	
Y			Prereq 2	Minimum Energy Performance	
Y			Prereq 3	Fundamental Refrigerant Management	
	19		Credit 1	Optimize Energy Performance	1 to 19
		7	Credit 2	On-Site Renewable Energy	1 to 7
		2	Credit 3	Enhanced Commissioning	2
	2		Credit 4	Enhanced Refrigerant Management	2
		3	Credit 5	Measurement and Verification	3
		2	Credit 6	Green Power	2

7 7 Materials and Resources Possible Points: 14

Y	?	N			
Y			Prereq 1	Storage and Collection of Recyclables	
		3	Credit 1.1	Building Reuse—Maintain Existing Walls, Floors, and Roof	1 to 3
		1	Credit 1.2	Building Reuse—Maintain 50% of Interior Non-Structural Elements	1
	2		Credit 2	Construction Waste Management	1 to 2
		2	Credit 3	Materials Reuse	1 to 2

Materials and Resources, Continued

Y	?	N			
	2		Credit 4	Recycled Content	1 to 2
	2		Credit 5	Regional Materials	1 to 2
		1	Credit 6	Rapidly Renewable Materials	1
	1		Credit 7	Certified Wood	1

14 3 Indoor Environmental Quality Possible Points: 15

Y	?	N			
Y			Prereq 1	Minimum Indoor Air Quality Performance	
Y			Prereq 2	Environmental Tobacco Smoke (ETS) Control	
	1		Credit 1	Outdoor Air Delivery Monitoring	1
		1	Credit 2	Increased Ventilation	1
	1		Credit 3.1	Construction IAQ Management Plan—During Construction	1
	1		Credit 3.2	Construction IAQ Management Plan—Before Occupancy	1
	1		Credit 4.1	Low-Emitting Materials—Adhesives and Sealants	1
	1		Credit 4.2	Low-Emitting Materials—Paints and Coatings	1
	1		Credit 4.3	Low-Emitting Materials—Flooring Systems	1
	1		Credit 4.4	Low-Emitting Materials—Composite Wood and Agrifiber Products	1
	1		Credit 5	Indoor Chemical and Pollutant Source Control	1
	1		Credit 6.1	Controllability of Systems—Lighting	1
	1	1	Credit 6.2	Controllability of Systems—Thermal Comfort	1
	1		Credit 7.1	Thermal Comfort—Design	1
	1		Credit 7.2	Thermal Comfort—Verification	1
	1	1	Credit 8.1	Daylight and Views—Daylight	1
	1		Credit 8.2	Daylight and Views—Views	1

2 4 Innovation and Design Process Possible Points: 6

Y	?	N			
1			Credit 1.1	Innovation in Design: Education Program	1
	1		Credit 1.2	Innovation in Design:	1
		1	Credit 1.3	Innovation in Design:	1
		1	Credit 1.4	Innovation in Design:	1
	1		Credit 1.5	Innovation in Design:	1
1			Credit 2	LEED Accredited Professional	1

3 1 Regional Priority Credits Possible Points: 4

Y	?	N			
1			Credit 1.1	Regional Priority: Specific Credit: Site Selection	1
1			Credit 1.2	Regional Priority: Specific Credit: Alternative Transportation -bicycle	1
1			Credit 1.3	Regional Priority: Specific Credit: Water Efficient Landscaping	1
		1	Credit 1.4	Regional Priority: Specific Credit:	1

19 56 37 Total Possible Points: 110

Certified 40 to 49 points Silver 50 to 59 points Gold 60 to 79 points Platinum 80 to 110



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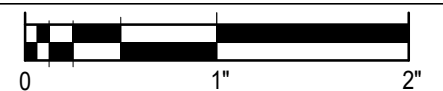
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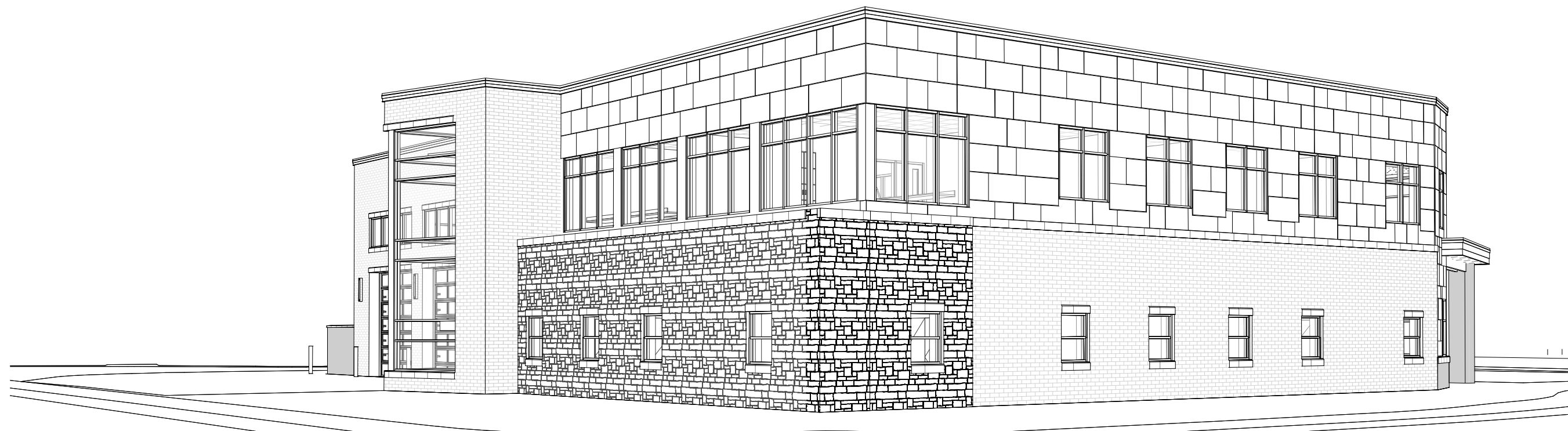
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1 La Crosse St. - In Front of Coate Hall
SCALE:



2 La Crosse St - Southwest View
SCALE:



3 La Crosse St. / Oakland St. - Southeast
SCALE:



4 Oakland St. / Farwell St. - Northeast
SCALE:

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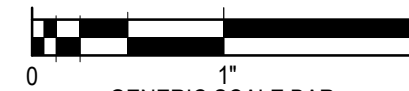
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