

Planning Commission Staff Report

Project Type:	Site Development Section Plan
Meeting Date:	April 13, 2020
From:	Chris Dietz, Planner
Location:	18357 Wings Corporate Drive
Description:	<u>Wings Corporate Estates, Lot 1 (The Office):</u> A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect’s Statement of Design for a 1.88-acre tract of land zoned “PI” Planned Industrial District located on the north side of Wings Corporate Drive within the Wings Corporate Estates subdivision (18W430123).

PROPOSAL SUMMARY

This request is for a 17,000 square-foot office/warehouse building located on the north side of Wings Corporate Drive within the Wings Corporate Estates subdivision. This would be the fourth building proposed in the Wings Corporate Estates subdivision and is being developed in conjunction with a Site Development Section Plan proposed on Lot 2, which is adjacent to this site. The subject site is zoned “PI” – Planned Industrial District and is governed under the terms and conditions of City Ordinance 2237.



Figure 1: Subject Site Aerial

HISTORY OF SUBJECT SITE

The City of Chesterfield approved Ordinance 2237 in February 2006, which changed the zoning of the subject site from “NU” Non-Urban District to “PI” Planned Industrial District. Following the change of zoning, the City of Chesterfield approved the Site Development Concept Plan for Wings Corporate

Estates in September 2006. The Record Plat for the development was approved in February 2008 to subdivide the development into twenty-one (21) lots. On October 10, 2019, this project was reviewed by the Architectural Review Board, which passed a recommendation of approval by a vote of 4-0 with conditions.

ARCHITECTURAL REVIEW BOARD INPUT

On October 10, 2019, the Architectural Review Board passed a recommendation of approval by a vote of 4-0 with four (4) conditions, as noted below:

1. Ensure the proposed mechanical units are adequately screened on all sides and verify the proposed location as depicted on the site plan.
2. The applicant shall seek the necessary approvals should egress doors, awnings, stairways, or other improvements be proposed in the future to ensure they match those currently proposed.
3. Provide additional evergreen landscaping along the south side of the loading area between the trash enclosure and the building to screen the drive-in doors.
4. Provide material samples for the proposed silo structure and silo roof prior to Planning Commission review to ensure they are of high quality and finish as for development in the Chesterfield Valley area.

The applicant has since revised the project which now complies with each condition listed above.

LAND USE AND ZONING

The surrounding zoning districts and land uses for this site are as follows:

Direction	Zoning	Land Use
North	Planned Industrial	Airport
South	Planned Industrial	Vacant/Agriculture
East	Planned Industrial	Proposed Warehouse Development
West	Planned Industrial	Vacant/Agriculture



Figure 2: Future Land Use Plan

COMPREHENSIVE PLAN

The City of Chesterfield Comprehensive Land Use Map delineates the subject site within the “Industrial, Low Intensity” land use designation. The Comprehensive Plan states that this designation calls for manufacturing and assembly as well as warehousing and distribution uses.

3.5.1 Chesterfield Valley Regional Retail and Low Intensity Industry - Regional retail and low-intensity industrial developments should be located in Chesterfield Valley. These include mixed-use office/retail-planned developments, low-intensity industrial assembly, distribution, and research and development business parks, and corporate campuses. Specifically, low-intensity industrial use is encouraged west of Long Road.

6.1 Low-Intensity Industrial - Low-intensity industrial development should be limited to Chesterfield Valley, including low-intensity industrial assembly, distribution, and research and development business parks, and corporate campuses.

Additionally, one Chesterfield Valley Design Policy applies to this development as well:

Pedestrian Circulation - In order to promote pedestrian movement, each development is required to address pedestrian circulation within and between all developments. This pedestrian system shall be designed in an overall safe, clearly understood plan meeting ADA (American Disabilities Act) requirements.

STAFF ANALYSIS

Zoning

The subject site is zoned “PI” Planned Industrial District and is governed by the development standards of City Ordinance 2237. This request was reviewed against the provisions of City Ordinance 2237 as well as all applicable requirements of the Unified Development Code (UDC), and the proposed development adheres to these requirements.

Circulation System and Access

Both the subject site (Lot 1) and the concurrently proposed development adjacent on Lot 2 will be served by a shared access drive located between the two sites. One additional access point is proposed for Lot 1 from Wings Corporate Drive to provide access to the main parking area, while services for the loading area will primarily utilize the shared driveway. Pedestrian access to the building is provided off of the main parking area at the main entrance of the

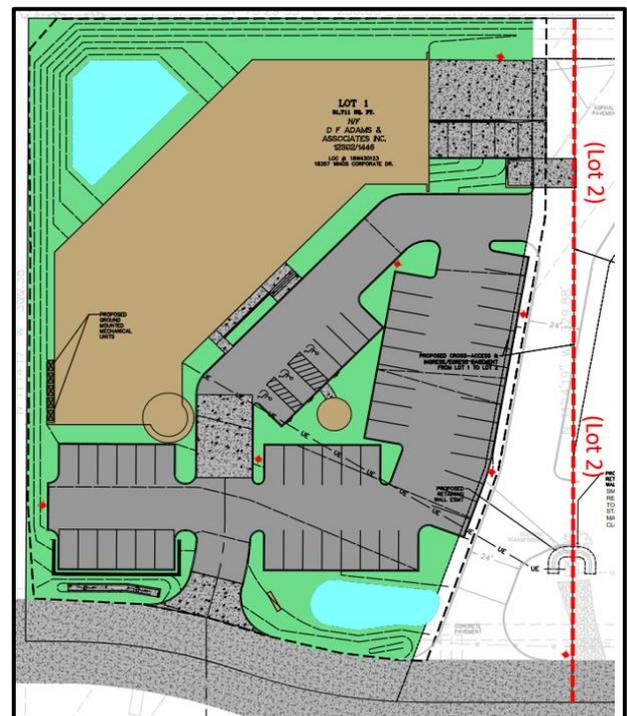


Figure 3: Site Development Section Plan

building. There is no sidewalk proposed along Wings Corporate Drive in this development, however, a sidewalk on the south side of Wings Corporate Drive will extend through the subdivision once developed, as depicted on the approved Site Development Concept Plan.

Off-Street Parking and Loading

Fifty-six (56) proposed parking spaces are located at the front of the building along Wings Corporate Drive and along the shared east side of the property near the shared access drive with Lot 2. All parking spaces are surfaced with asphalt pavement with the exception of pervious pavement proposed for six spaces located at the southwest corner of the site, and three ADA spaces are provided near the building's main entrance. All parking complies with UDC regulations.

Landscaping

Landscaping will consist of a variety of evergreen and deciduous trees as well as a mixture of ornamental plantings throughout the site. The loading area will be landscaped with trees to screen the overhead doors on the east elevation of the building, with smaller plantings lining the adjacent enclosure. Street trees are proposed along the site's frontage on Wings Corporate Drive as well as additional trees throughout the parking area. Landscaping is also proposed along the front entry façade including the south and southeast building elevations. Other small plantings are proposed around the plaza near the center of the site, and landscape is proposed to screen the south side of the trash enclosure. Mechanical units located along the west elevation of the building are to be adequately screened by landscaping as well. All landscaping complies with UDC requirements.

Screening systems for the mechanical units and trash enclosure are proposed to match or be integrated within the building's design. Ground-mounted mechanical units are screened by a portion of the building's exterior brick wall on the south elevation facing Wings Corporate Drive along with additional landscaping along the west side of the building. A six-foot tall trash enclosure is also proposed on the northeast side of the site in brick to match the main structure.

Lighting

Lighting for this development will include primarily utilitarian fixtures serving in the form of two (2) pole-mounted parking area lighting fixtures, two (2) wall-mounted building lighting above the loading area and two (2) decorative street lighting along Wings Corporate Drive. The UDC requires all streetlights in nonresidential districts to be mounted at no less than 22 feet above grade. Currently, the mounting height of the streetlight is 20 feet above grade. All other fixtures comply with the City's lighting standards.

Architectural Elevations

The site features a speculative single-story office/warehouse structure designed for a single tenant. The structure would reach 37'6" in height. Materials for this structure include brick, cast stone, and glass, along with a pre-finished metal architectural feature on the south end of the building that resembles an agricultural grain silo. A loading area located on the east elevation of the building will feature three overhead doors for deliveries. Brick massing continues around all sides of the building, and is comparable in design to other developments within the Wings Corporate Estates Subdivision.

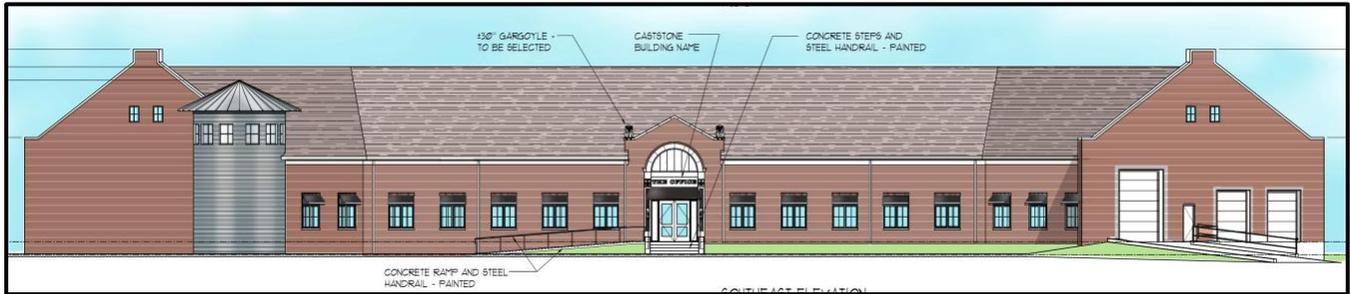


Figure 4: Southeast Elevation



Figure 5: Architectural Rendering

STAFF RECOMMENDATION

Staff has reviewed the project and has found the proposal to be in compliance with the site-specific ordinance, Comprehensive Plan, and all City Code requirements. Staff recommends approval of the Site Development Section Plan of Wings Corporate Estates, Lot 1 (The Office).

MOTION

The following options are provided to the Planning Commission for consideration relative to this application:

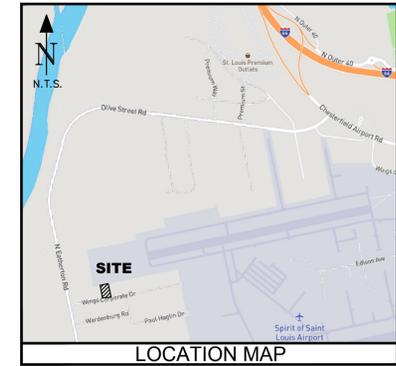
- 1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wings Corporate Estates, Lot 1".
- 2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wings Corporate Estates, Lot 1, with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: Site Development Section Plan Submittal Packet

SITE DEVELOPMENT SECTION PLAN

WINGS CORPORATE ESTATES LOT 1

A TRACT OF LAND IN US SURVEY 362 & 133 TOWNSHIP 45 NORTH, RANGE 3 EAST
BEING LOT 1 OF WINGS CORPORATE ESTATES AS RECORDED IN PLAT BOOK
356 PAGES 79 THRU 81 OF THE ST. LOUIS COUNTY LAND RECORDS,
CITY OF CHESTERFIELD, ST LOUIS COUNTY, MISSOURI



NOTE: THIS PLAN ASSUMES THE SIMULTANEOUS CONSTRUCTION OF LOTS 1 & 2 OF WINGS CORPORATE ESTATES. THE TWO LOTS WILL BE CONSTRUCTED BY THE SAME DEVELOPER BUT UNDER SEPARATE PERMITS. SEE ATTACHED SITE DEVELOPMENT SECTION PLAN FOR WINGS CORPORATE ESTATES LOT 2.

SITE NOTES:

- PROPERTY OWNER/
PREPARED FOR: D F ADAMS & ASSOCIATES INC.
C/O DOUG ADAMS
282 LITTLE HARBOUR LN
NAPLES, FL 34102
- PROPERTY ADDRESS: 18357 WINGS CORPORATE DRIVE
CHESTERFIELD, MO 63005
- SITE LOCATOR #: 18W430123
- SITE AREA: 1.88 ACRES±
- LEGAL DESCRIPTION:
A TRACT OF LAND IN US SURVEY 362 & 133 TOWNSHIP 45 NORTH,
RANGE 3 EAST BEING LOT 1 OF WINGS CORPORATE ESTATES AS
RECORDED IN PLAT BOOK 356 PAGES 79 THRU 81 OF THE ST.
LOUIS COUNTY LAND RECORDS, CITY OF CHESTERFIELD, ST LOUIS
COUNTY, MISSOURI
- PER FIRM MAP PANELS 29189C0145K WITH AN EFFECTIVE DATE
FEBRUARY 4, 2015, THE SUBJECT PROPERTY LIES WITHIN FLOOD
ZONE "X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100 YEAR FLOOD
WITH AVERAGE DEPTHS OF LESS THAN ONE (1) FOOT, OR WITH
DRAINAGE AREAS LESS THAN ONE (1) SQUARE MILE; AND AREAS
PROTECTED BY LEVES FROM THE 100-YEAR FLOOD).
- EXISTING ZONING: "PI" PLANNED INDUSTRIAL DISTRICT
ORDINANCE #2237
- SETBACKS PER ZONING:
BUILDING FRONT PARKING
FRONT =20' FRONT =10'
SIDE =10' SIDE =5'
REAR =10' REAR =5'
- UTILITY PROVIDERS:
WATER DISTRICT: MISSOURI AMERICAN WATER
FIRE DISTRICT: MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT: ROCKWOOD
SEWER DISTRICT: METROPOLITAN ST. LOUIS SEWER DISTRICT
WATERSHED: MISSOURI RIVER
GAS SERVICE: LACLEDE GAS COMPANY
ELECTRIC SERVICE: AMEREN UE
PHONE SERVICE: AT&T

BENCHMARK INFORMATION:

- MSD BENCHMARK:
11-109, ELEV=461.24'
- "STANDARD ALUMINUM DISK" STAMPED SL-41 1990 DISK IS SET ALONG
THE EAST SIDE OF EATHERTON ROAD JUST NORTH OF THE SHELL PIPELINE
MARKER; 19' EAST OF THE CENTERLINE OF EATHERTON AND 60' NORTH OF
THE EAST PIPELINE MARKER. APPROXIMATELY 1.1 MILE SOUTH OF THE
INTERSECTION OF OLIVE STREET ROAD AND EATHERTON ROAD.
- SITE BENCHMARK:
MEASURED ELEVATION 463.02' (MODOT VRS, N.A.V.D.-88)
- "O" IN OPEN ON A FIRE HYDRANT LOCATED 43' +/- NORTHEAST FROM A
FOUND CROSS IN THE CENTERLINE OF WINGS CORPORATE DRIVE AT THE
SOUTHWEST CORNER OF LOT 2.

DEVELOPMENT NOTES:

- TOTAL AREA DISTURBED: 77,816 SQ. FT. OR 1.79 ACRES±
- PARKING CALCULATIONS:
PARKING REQUIREMENTS
4/5 OFFICE MIN=3.3/1000 G.S.F.=13,600/1000 X 3.3= 46 SPACES
MAX=4.5/1000 G.S.F.=13,600/1000 X 4.5= 61 SPACES
1/5 WAREHOUSE MIN=2 SPACES/EVERY 3 EMPLOYEES ON MAX. SHIFT
2 SPACES X 6 EMPLOYEES / 3 = 2 SPACES
MAX=1.2 SPACES/EVERY 1 EMPLOYEE ON MAX. SHIFT
1.2 SPACES X 6 EMPLOYEES / 1 = 7 SPACES
TOTAL MIN REQUIRED = 46 + 2 = 48 SPACES
TOTAL MAX ALLOWED = 61 + 7 = 68 SPACES
PARKING PROVIDED:
STANDARD 9'X19' =53 SPACES
A.D.A ACCESSIBLE = 3 SPACES (W/ 1 VAN)
TOTAL =56 SPACES
- DENSITY CALCULATIONS - LOT 1 PROPERTY
GREENSPACE:(REQUIRED MINIMUM 30%)
24,831 S.F. PREVIOUS X 100 =30%
81,711 S.F. TOTAL SITE
IMPERVIOUS COVERAGE:
56,880 S.F. PREVIOUS X 100 =70%
81,711 S.F. TOTAL SITE
BUILDING COVERAGE / F.A.R.:(REQUIRED MAXIMUM 55%)
17,004 S.F. PREVIOUS X 100 =21%
81,711 S.F. TOTAL SITE
OPENSAPCE:(GREEN PLUS SIDEWALK, WALLS, GAZEBO)(REQUIRED MINIMUM 30%)
25,737 S.F. OPEN SPACE X 100 =31%
81,711 S.F. TOTAL SITE
- UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION
AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY.
THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER
SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF
THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING AND/OR
CONSTRUCTION OF IMPROVEMENTS.
- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY
STANDARDS.
- HANDICAP PARKING AND ACCESS REQUIREMENTS SHALL COMPLY WITH SECTION
512.4 OF THE ST. LOUIS COUNTY BUILDING CODE.
- NO SLOPES SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
- ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS
COUNTY AND MSD STANDARDS
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE
POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- THE DEVELOPER SHALL PROVIDE ADEQUATE STORM WATER SYSTEMS IN
ACCORDANCE WITH ST LOUIS COUNTY AND M.S.D. STANDARDS.
- INTERIM STORM WATER DRAINAGE CONTROL IN THE FORM OF SILTATION
CONTROL MEASURES SHALL BE PROVIDED.
- ADDITIONAL SILTATION CONTROL SHALL BE INSTALLED AS REQUIRED BY THE
CITY OF CHESTERFIELD.
- ALL CONSTRUCTION SHALL BE PER MOST CURRENT DETAILS LOCATED IN THE
ST LOUIS COUNTY DESIGN CRITERIA MANUAL AND/OR THE SEDIMENT AND
EROSION CONTROL MANUAL.
- ALL AFFECTED OFFSITE PROPERTY OWNERS SHALL BE GIVEN NOTICE 48 HOURS
IN ADVANCE OF ANY WORK.
- ANY DISTURBED OFF SITE PROPERTY (I.E. BUSHES, FENCES, MAILBOXES, ETC)
SHALL BE REPLACED IN KIND AT THE DEVELOPERS EXPENSE.

ST. LOUIS COUNTY STANDARD CONCEPT NOTES:

- ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY
STANDARDS.
- NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3
(HORIZONTAL) TO 1 (VERTICAL).
- STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE
POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM
ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- ALL SIDEWALKS AND ASSOCIATED ACCESSIBILITY IMPROVEMENTS WITHIN
RIGHT-OF-WAY SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY ADA
STANDARDS.
- A SIGNED/SEALED NOTE SHALL BE ADDED TO THE CONSTRUCTION PLANS
INDICATING THAT THE UNIMPROVED EXISTING SIDEWALK/PEDESTRIAN PATH
ALONG THE PROJECT FRONTAGE MEETS CURRENT ST. LOUIS COUNTY ADA
STANDARDS.
- ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS
COUNTY AND MSD STANDARDS.
- ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN
THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO
(2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS
DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
- ANY ENTITY THAT PERFORMS WORK ON ST. LOUIS COUNTY MAINTAINED
PROPERTY SHALL PROVIDE THE COUNTY WITH A CERTIFICATE OF INSURANCE
EVIDENCING GENERAL LIABILITY COVERAGE (BODILY INJURY AND PROPERTY
DAMAGE) IN THE AMOUNTS SPECIFIED AS THE LIMITS OF LIABILITY SET BY THE
STATE FOR PUBLIC ENTITIES. SUCH CERTIFICATE SHALL INCLUDE "ST. LOUIS
COUNTY" AS AN ADDITIONAL INSURED AND SHALL BE PROVIDED PRIOR TO THE
ISSUANCE OF ANY PERMIT. CERTIFICATE SHALL PROVIDE FOR A 30 DAY
POLICY CANCELLATION NOTICE TO ST. LOUIS COUNTY. UPON REQUEST, THE
COUNTY WILL PROVIDE THE SPECIFIC AMOUNTS FOR BOTH PER PERSON AND
PER OCCURRENCE LIMITS.
- PRIOR TO "SPECIAL USE PERMIT" ISSUANCE BY THE ST. LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A
SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE
REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF
HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED
ROADWAY IMPROVEMENTS.
- CONTINUOUS PEDESTRIAN ACCESS SHALL BE PROVIDED DURING THE
CONSTRUCTION PROCESS. PRIOR TO THE START OF CONSTRUCTION, ADEQUATE
PEDESTRIAN ACCESS AROUND THE SITE SHALL BE PROVIDED AND VERIFIED.
NO EXISTING SIDEWALK SHALL BE REMOVED WITHOUT PROVIDING ADEQUATE
PEDESTRIAN FACILITIES AND ROUTES DURING CONSTRUCTION ACTIVITIES.

_____ the owner(s) of the property shown on this plan for and in
consideration of being granted approval of said plan to develop property under the provisions of
Section 03. _____ of City of Chesterfield Unified Development

(applicable subsection) (present zoning)
Code, do hereby agree and declare that said property from the date of recording this plan shall be
developed only as shown thereon, unless said plan is amended by the City of Chesterfield, or
voided or vacated by order of ordinance of the City of Chesterfield Council.

(Signature): _____

(Name Typed): _____

State of _____ }
County of _____ } SS.

On this _____ day of _____, A.D., 20____, before me personally appeared
(Officer of Corporation) _____ to me known, who, being by me sworn in, did say

that he/she is the _____ of _____ (Name of Corporation)
incorporated in the State of _____ and that the seal affixed to the foregoing instruments
is the corporate seal of said corporation, and that said instrument was signed on behalf of said
corporation by authority of its Board of Directors, and the said _____ (Officer of Corporation)
acknowledged said instrument to be the free act and deed of said corporation.

State of _____ }
County of _____ } SS.

On this _____ day of _____, A.D., 20____, before me personally appeared
(Individual) _____ and _____ (Wife)
_____ his wife, to me known

to be the person(s) described in, and who executed the foregoing instrument, and acknowledged
that he, she or they executed the same as his, her, or their free act and deed.

In Testimony Whereof, I have hereunto set my hand and affixed my Notarial Seal at my Office in
_____ (County and State)
_____ the day and year last above written.

My term expires _____ (Notary Public)

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and
duly verified on the _____ day of _____, 20____, by the Chairperson of said
Commission, authorizing the recording of this Site Development Plan pursuant to Chesterfield
Ordinance Number _____, as attested to by the Planning and Development Services Director and the
City Clerk.

Justin Wyse, AICP
Planning and Development Services Director
City of Chesterfield, Missouri

Vickie McGownd, City Clerk
City of Chesterfield, Missouri



SHEET INDEX

- COVER
- SITE DEVELOPMENT PLAN

COMPLIANCE WITH GEOTECHNICAL REPORT

_____ AT THE REQUEST OF _____ HAS PERFORMED A
GEOTECHNICAL EXPLORATION FOR THE PROPERTY OF WHICH THE PROJECT PROPOSED
HEREON IS A PART THEREOF; OUR FINDINGS INDICATE THAT THE EARTH RELATED ASPECTS
ARE SUITABLE FOR THE ELEMENTS SHOWN HEREON PURSUANT TO THE GEOTECHNICAL
RECOMMENDATIONS AND CONSIDERATIONS SET FORTH IN OUR _____ REPORT,
TITLED _____

_____ AND THE UNDERSIGNED ASSUME NO RESPONSIBILITY FOR
SERVICES BY OTHERS (PURSUANT TO RSMO 327.411).

CONSTRUCTION MEANS AND METHODS FOR IMPLEMENTATION OF THE GRADING PLAN SHALL
BE LEFT TO THE DEVELOPER/CONTRACTOR. OBSERVATIONS OF THE
DEVELOPER/CONTRACTOR'S COMPLIANCE WITH THE APPLICABLE SPECIFICATIONS SHALL BE
IDENTIFIED AND VERIFIED IN WRITING.

MISSOURI LICENSE NO.: _____

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT ST. CHARLES ENGINEERING AND SURVEYING, INC., AT THE
REQUEST AND FOR THE EXCLUSIVE USE OF D F ADAMS & ASSOCIATES INC. DURING THE
MONTH OF NOVEMBER, 2018 EXECUTED A PARTIAL TOPOGRAPHIC SURVEY OF "18349 WINGS
CORPORATE DRIVE", TOWNSHIP 45 NORTH, RANGE 3 EAST, ST LOUIS COUNTY, MISSOURI.
THIS SURVEY WAS PREPARED IN ACCORDANCE WITH CHAPTER 16 "MISSOURI MINIMUM
STANDARDS FOR URBAN PROPERTY BOUNDARY SURVEYS (20 CSR 2030-16.010-16.110)."

RICHARD KEITH SIECKMANN MO. P.L.S. #2002014094 DATE _____

LINE TYPE	ABBREVIATION	SYMBOL	SYMBOL
EX. SANITARY SEWER	TF	TOP OF FOUNDATION	FF
PROP. SANITARY SEWER	BF	BASEMENT FLOOR	CONC
EX. STORM SEWER	T	CONCRETE	CONC
PROP. STORM SEWER	FL	TOP ELEVATION	T
EX. WATER LINE	FL	FLOW LINE ELEVATION	FL
PROP. WATER LINE	TBR	TO BE REMOVED	TBR
EX. TELEPHONE LINE	UP	TO BE REMOVED & REPLACED	UP
PROP. TELEPHONE LINE	ATC	USE IN PLACE	ATC
EX. CABLE LINE	TBA	ADJUST TO GRADE	TBA
PROP. CABLE LINE	EX	TO BE ABANDONED	EX
EX. OVERHEAD ELECTRIC	TYP	EXISTING	TYP
PROP. OVERHEAD ELECTRIC	CO	TYPICAL	CO
EX. UNDERGROUND ELECTRIC	MIN	CLEAN OUT	MIN
PROP. UNDERGROUND ELECTRIC	DS	DOWN SPOUT	DS
EX. FENCE LINE	R	RADIUS	R
PROP. FENCE LINE	PS	PARKING SPACE	PS
EX. TREE LINE	EJ	EXPANSION JOINT	EJ
HATCH			
CONCRETE			
ASPHALT			
GRAVEL			
LANDSCAPE			
		STORM MANHOLE	SM
		SANITARY MANHOLE	SMH
		TELEPHONE MANHOLE	TMH
		ELECTRIC MANHOLE	EMH
		CURB INLET	CI
		AREA INLET	AI
		DOUBLE CURB INLET	DCI
		GRATED INLET	GI
		ELECTRIC METER	EM
		WATER METER	WM
		WATER VALVE	WV
		GAS METER	GM
		GAS VALVE	GV
		FIRE HYDRANT	FH
		CLEANOUT	CO
		UTILITY POLE	UP
		PARKING METER	PM
		BOLLARD	B
		IRRIGATION CONTROL VALVE	ICV
		FLARED END	FE
		SIGN	S
		TRAFFIC CONTROL BOX	TCB
		BOREROLE	BR
		FLAGPOLE	FP
		HANDICAP PARKING SPACE	HPS
		MAILBOX	MB
		ELECTRIC PEDESTAL	EP
		ELECTRIC METER	EM
		CABLE PEDESTAL	CP
		TELEPHONE PEDESTAL	TP
		GUY WIRE	GW
		CLEANOUT	CO
		PARKING METER	PM
		BOLLARD	B
		IRRIGATION CONTROL VALVE	ICV
		FLARED END	FE

ENGINEERS AUTHENTICATION

The responsibility for the professional engineering liability on this
project is hereby limited to the set of plans authenticated by the seal,
signature and date hereunder attached. Responsibility is disclaimed for
all other engineering plans involved in the project and specifically
excludes revisions after this date unless reauthenticated.

MSD BASE MAP
18W
MSD P-NO.
P-00XXXX-00

ORDER NO.
180193
DATE
08/05/2020
1



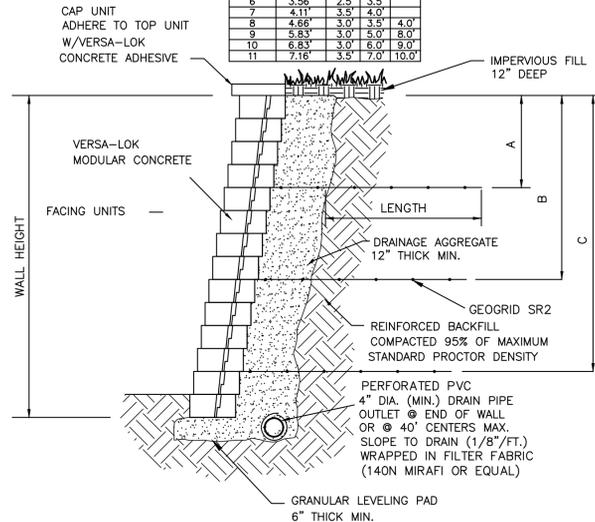
UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE
THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE
LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS,
SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY
GRADING AND/OR CONSTRUCTION OF IMPROVEMENTS.

SITE DEVELOPMENT SECTION PLAN
 WINGS CORP EST LOT 1
 18357 WINGS CORPORATE DRIVE
 CHESTERFIELD, MISSOURI 63005
 COVER

ST. CHARLES ENGINEERING & SURVEYING, INC.
 801 S. FIFTH STREET, SUITE 202
 ST. CHARLES, MO 63901
 TEL: (636) 947-0607 FAX: (636) 947-2448
 ST. CHARLES ENGINEERING AND SURVEYING, INC.
 PROFESSIONAL ENGINEERING AND LAND SURVEYING CORPORATION
 MISSOURI STATE CERTIFICATE OF AUTHORITY - 001647 & 000379



WALL HEIGHT	LENGTH OF GRID	DIMENSION		
		A	B	C
5	3.01	3.0'		
6	3.56	2.5'	3.5'	
7	4.11	3.5'	4.0'	
8	4.66	3.0'	3.5'	4.0'
9	5.23	3.0'	5.0'	6.0'
10	5.83	3.0'	6.0'	9.0'
11	7.16	3.5'	7.0'	10.0'



TYPICAL SECTION-REINFORCED RETAINING WALL
MODULAR CONCRETE UNIT SCALE NONE



MONARCH FIRE PROTECTION DISTRICT
OFFICE OF FIRE PREVENTION
13725 Olive Blvd., Chesterfield, MO 63017-2640
Phone: 314.514.0900 Fax: 314.514.0696
fireprevention@monarchfpd.org
www.monarchfpd.org

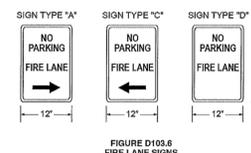
IFC Section D103.6 Fire Lane Marking

503.3 Marking. Where required by the fire code official, approved signs or other approved notices or markings that include the words NO PARKING-FIRE LANE shall be provided for fire apparatus access roads to identify such roads or prohibit the obstruction thereof. The means by which fire lanes are designated shall be maintained in a clean and legible condition at all times and be replaced or repaired when necessary to provide adequate visibility.

D103.6 Signs. Where required by the fire code official, fire apparatus access roads shall be marked with permanent NO PARKING-FIRE LANE signs complying with Figure D103.6. Signs shall have a minimum dimension of 12 inches wide by 18 inches high and have red letters on a white reflective background. Signs shall be posted on one or both sides of the fire apparatus road as required by Section D103.6.1 or D103.6.2. In addition to required signage, fire lanes shall be marked by one of the following methods on one or both sides of the fire apparatus road as required by Section D103.6.1 or D103.6.2:

- Curbs shall be painted red along the entire distance of the fire department access. Minimum 4-inch high white letters with a 1-inch stroke stating "NO PARKING-FIRE LANE" shall be stenciled on the curb at 25-foot intervals.
- Roller curbs or surfaces without curbs shall have a red 6-inch wide stripe painted on the roller curb or edge of pavement extending the length of the designated fire lane. The surface adjacent to the stripe shall be marked with black lettering a minimum of 18 inches in height and with a minimum 1/8 inch brush stroke reading "NO PARKING-FIRE LANE." Lettering shall be in white and spaced at no more than 50-foot intervals.

Exception: Approved areas designated for parking are not required to be marked with signage or painting.
The colors for marking curbs and pavement shall conform to standard highway colors. All signage and marking of fire lanes shall be maintained in a legible condition.



D103.6.1 Roads 20 to 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on both sides of fire apparatus access roads that are 20 to 26 feet wide.

D103.6.2 Roads more than 26 feet in width. Fire lane signs as specified in Section D103.6 shall be posted on one side of fire apparatus access roads more than 26 feet wide and less than 32 feet wide.

NOTE: THIS PLAN ASSUMES THE SIMULTANEOUS CONSTRUCTION OF LOTS 1 & 2 OF WINGS CORPORATE ESTATES. THE TWO LOTS WILL BE CONSTRUCTED BY THE SAME DEVELOPER BUT UNDER SEPARATE PERMITS. SEE ATTACHED SITE DEVELOPMENT SECTION PLAN FOR WINGS CORPORATE ESTATES LOT 2.

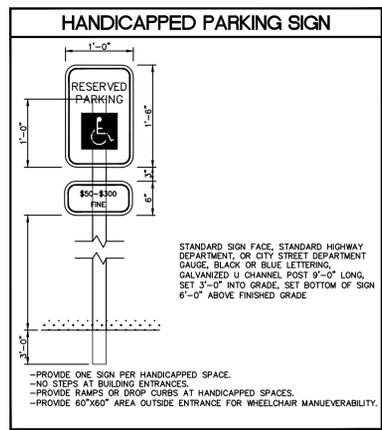
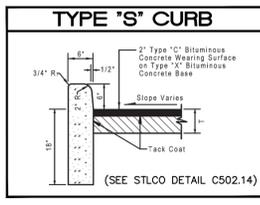
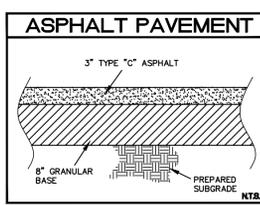
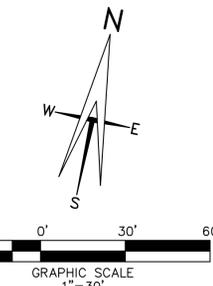
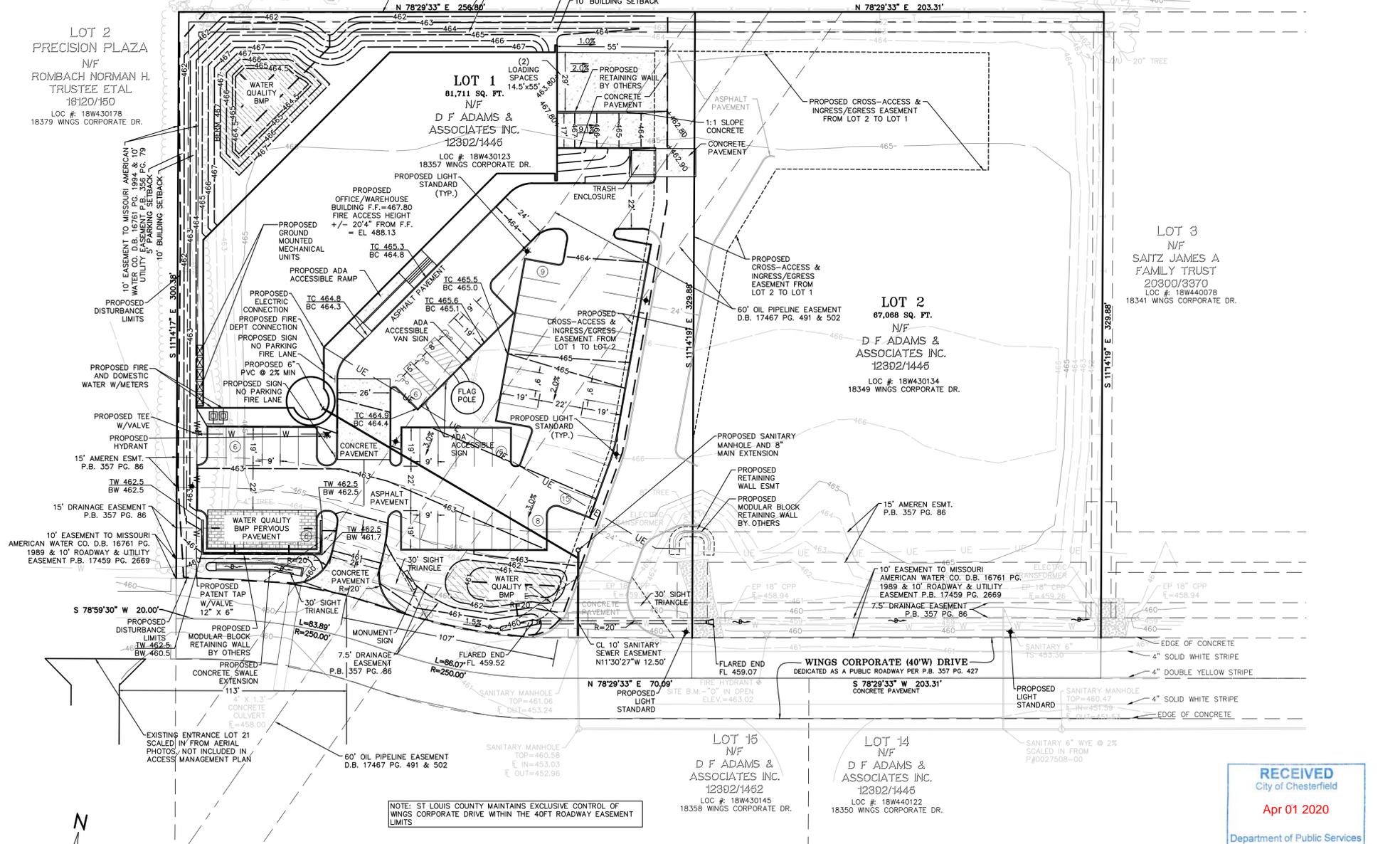
FIRE DISTRICT NOTES:

- BUILDING HEIGHT: 38'0" +/-
- CONSTRUCTION TYPE: II-B
- FIRE-FLOW CALCS: FLOOR AREA = +/-17,000 S.F., NOT DESIGNED FOR A POTENTIAL MEZZANINE



UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING AND/OR CONSTRUCTION OF IMPROVEMENTS.

LOT 2
PRECISION PLAZA
N/F
ROMBACH NORMAN H.
TRUSTEE ETAL
16120/160
LOC # 18W430178
18379 WINGS CORPORATE DR.



LEGEND:

LINE TYPE	ABBREVIATION	SYMBOL	DESCRIPTION
---	EX. SANITARY SEWER	⊕	STORM MANHOLE
---	PROP. SANITARY SEWER	⊕	SANITARY MANHOLE
---	EX. WATER SEWER	⊕	TELEPHONE MANHOLE
---	PROP. WATER SEWER	⊕	ELECTRIC MANHOLE
---	EX. TELEPHONE LINE	⊕	CURB INLET
---	PROP. TELEPHONE LINE	⊕	AREA INLET
---	EX. GAS LINE	⊕	DOUBLE CURB INLET
---	PROP. GAS LINE	⊕	GRATED INLET
---	EXISTING OVERHEAD ELECTRIC	⊕	ELECTRIC METER
---	UNDERGROUND ELECTRIC	⊕	CABLE PEDESTAL
---	TREE LINE	⊕	GAS METER
---		⊕	GAS VALVE
---		⊕	FIRE HYDRANT
---		⊕	UTILITY POLE
---		⊕	TREE & BUSHES
---		⊕	SIGN
---		⊕	LIGHT
---		⊕	TRAFFIC CONTROL BOX
---		⊕	BOREHOLE
---		⊕	FLAGPOLE
---		⊕	HANDICAP PARKING SPACE
---		⊕	MAILBOX
---		⊕	ELECTRIC PEDESTAL
---		⊕	WATER VALVE
---		⊕	CABLE PEDESTAL
---		⊕	GUY WIRE
---		⊕	CLEANTOUP
---		⊕	PARKING METER
---		⊕	BOLLARD
---		⊕	IRRIGATION CONTROL VALVE
---		⊕	FLARED END

ENGINEERS AUTHENTICATION
The responsibility for the professional engineering liability on this project is hereby limited to the set of plans authenticated by the seal, signature and date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in the project and specifically excludes revisions after this date unless reauthenticated.

MSD BASE MAP 18W
MSD P-NO. P-00XXXX-00

ST. CHARLES ENGINEERING & SURVEYING, INC.
801 S. FIFTH STREET, SUITE 202
ST. CHARLES, MO 63301
TEL: (636) 947-0607 FAX: (636) 947-2448
ST. CHARLES ENGINEERING AND SURVEYING, INC.
PROFESSIONAL ENGINEERING AND LAND SURVEYING CORPORATION
MISSOURI STATE CERTIFICATE OF AUTHORITY - 001647 & 000379

RECEIVED
City of Chesterfield
Apr 01 2020
Department of Public Services

ORDER NO. 180193
DATE 03/31/2020
2

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MICHAEL NEWELL MEMBERS SINCE 1998
No. 22483
03/31/20

PLANNING & ZONING SUBMITTAL
06-26-2019 PLANNING & ZONING SUBMITTAL
07-08-2019 PLANNING & ZONING SUBMITTAL
10-29-2019 REVISIONS PER CITY OF CHESTERFIELD
12-20-2019 REVISIONS PER CITY OF CHESTERFIELD
1-13-2020 REVISIONS PER CITY OF CHESTERFIELD
02-13-2020 MONARCH FIRE SUBMITTAL
02-26-2020 ST. LOUIS COUNTY SUBMITTAL
03-05-2020 MONARCH FIRE SUBMITTAL
03-31-2020 REVISIONS PER CITY OF CHESTERFIELD

SITE DEVELOPMENT SECTION PLAN
WINGS CORP EST LOT 1
18357 WINGS CORPORATE DRIVE
CHESTERFIELD, MISSOURI 63005
SITE DEVELOPMENT PLAN

NOTE: THIS PLAN ASSUMES THE SIMULTANEOUS CONSTRUCTION OF LOTS 1 & 2 OF WINGS CORPORATE ESTATES. THE TWO LOTS WILL BE CONSTRUCTED BY THE SAME DEVELOPER BUT UNDER SEPARATE PERMITS. SEE ATTACHED SITE DEVELOPMENT SECTION PLAN FOR WINGS CORPORATE ESTATES LOT 2.

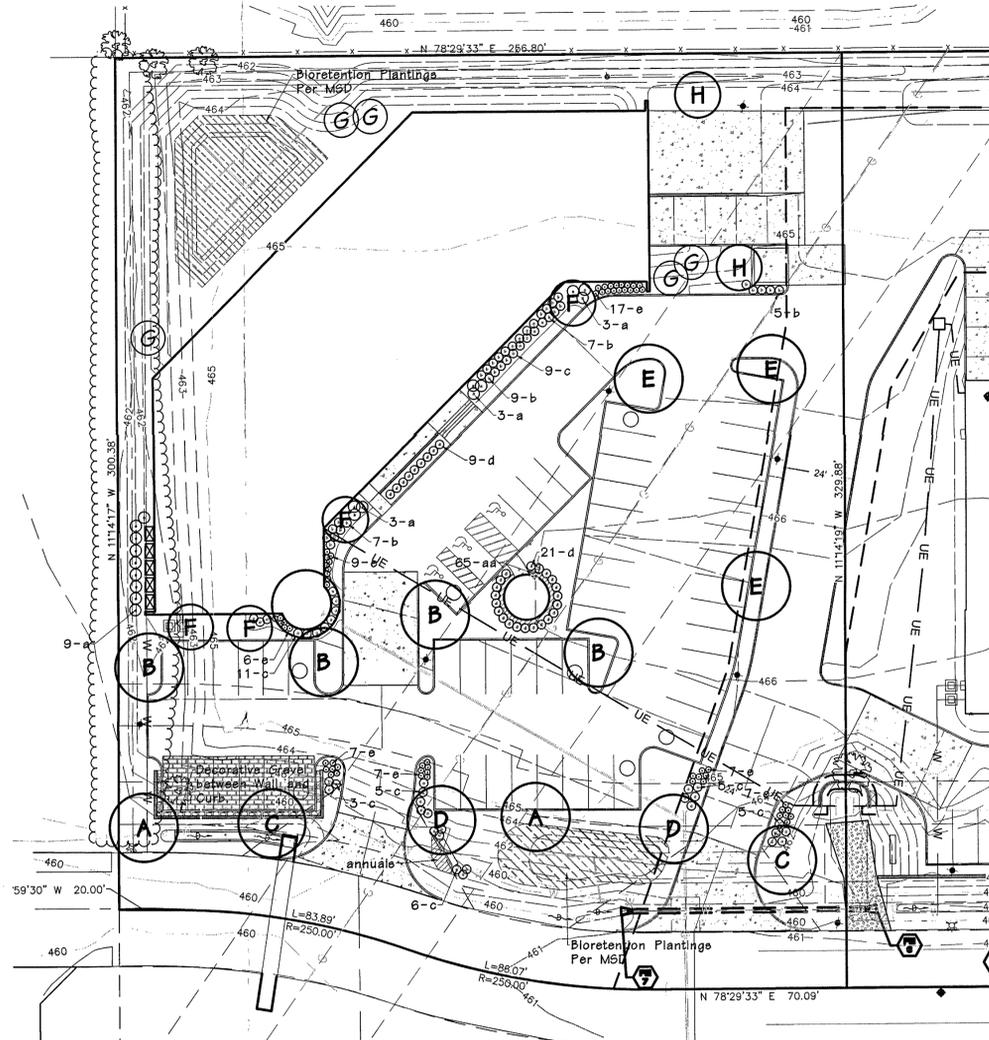


Douglas A. DeLong, Landscape Architect LA-81

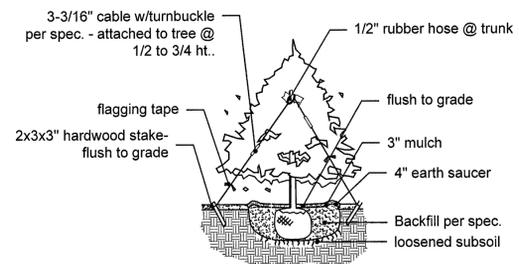
Consultants:

Wings Corporate Estates-Lot 1 Chesterfield, Mo

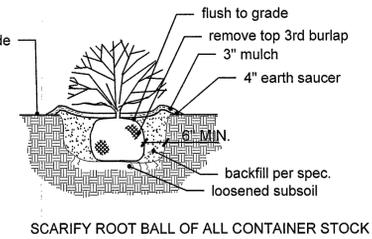
Dial Architects



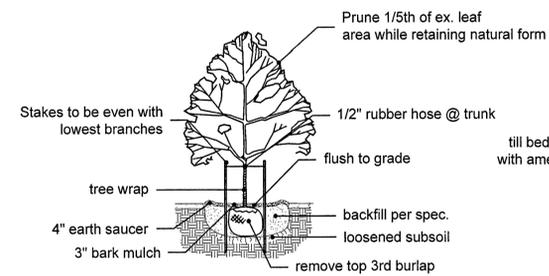
Landscape Plan
SCALE 1"=30'



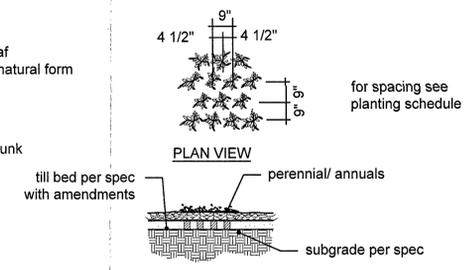
TYPICAL EVERGREEN PLANTING



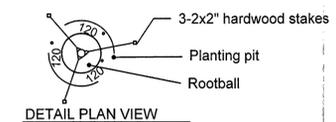
TYPICAL SHRUB PLANTING



CANOPY TREE PLANTING



TYPICAL PERENNIAL PLANTING



DETAIL PLAN VIEW

PLANTING SCHEDULE							
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE		TYPE	PERCENTAGE
A	2	Platanus x acerifolia	London Planetree	2 1/2"		Fast Growing	8%
B	4	Tilia americana	American Linden	2 1/2"		Medium Growing	17%
C	2	Quercus bicolor	Swamp White Oak	2 1/2"		Medium Growing	8%
D	2	Quercus imbricaria	Shingle Oak	2 1/2"		Medium Growing	8%
E	3	Acer rubrum 'Red Sunset'	Red Sunset Red Maple	2 1/2"		Fast Growing	13%
F	4	Cercis canadensis	Red Bud	2 1/2"		Fast Growing	17%
G	5	Pinus resinosa	Red Pine	8'		Medium Growing	20%
H	2	Carpinus betulus 'Fastiglata'	Upright European Hornbeam	2 1/2"		Slow Growing	8%
a	18	Ilex glabra 'Shamrock'	Shamrock Inkberry	2-3'		3' O.C.	
b	23	Itea virginica	Sweetpire	18-24"		2.5' O.C.	
c	44	Juniperus horizontalis 'Plumosa'	Compact Andorra Juniper	18-24"		3' O.C.	
d	30	Buxus 'Wintergreen'	Wintergreen Boxwood	3-4'		as shown	
e	60	Calamagrostis a. 'Karl Foerster'	Karl Foerster Grass	1 gal		2' O.C.	
aa	65	Liriope muscari 'Big Blue'	Big Blue Liriope	4" pot		12" O.C.	

GENERAL NOTES:

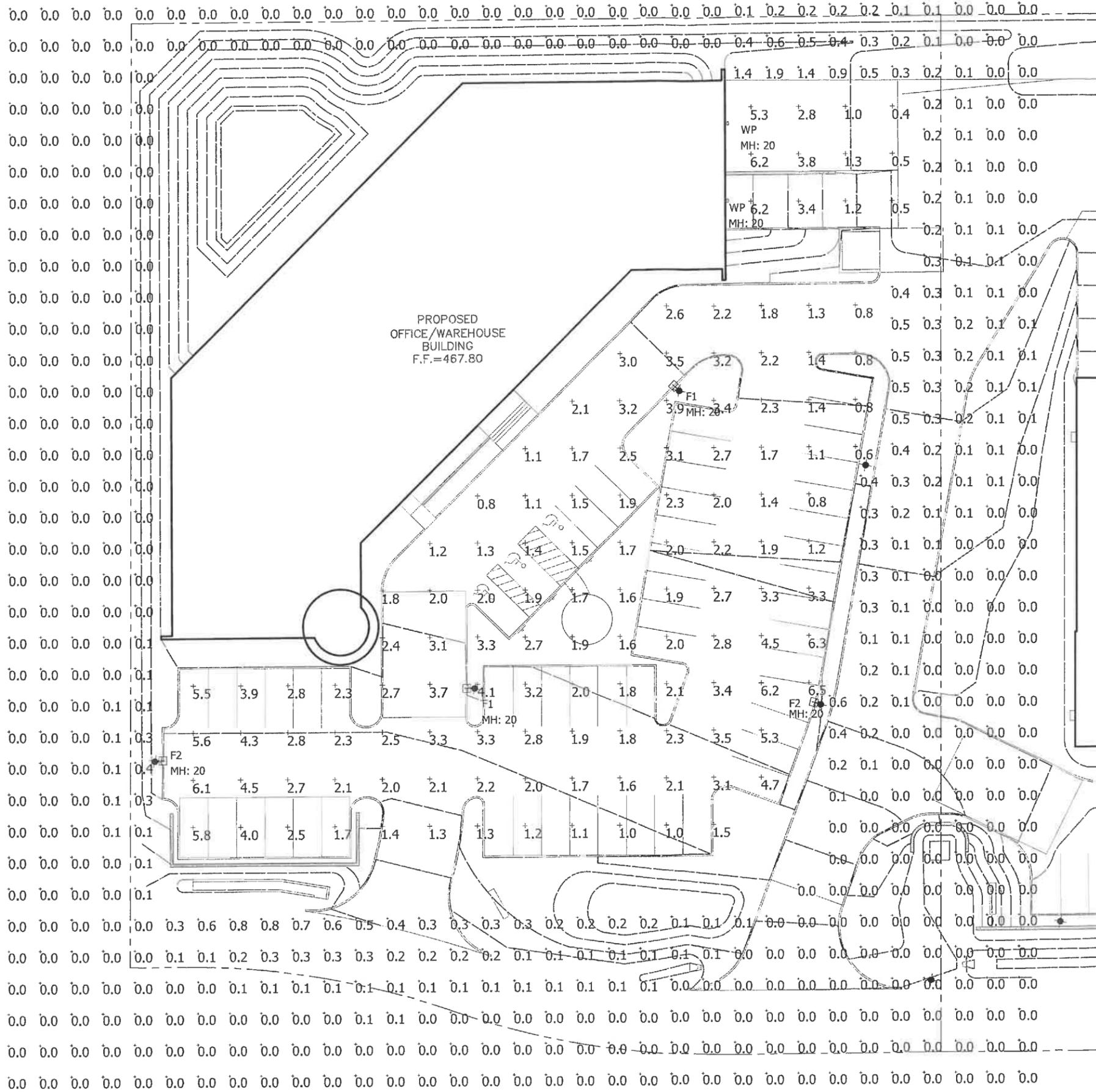
- 1) Openspace ratio Lot 1 is 31% Total Site 81,711 SF/Open Space 25,737 SF
- 2) Street trees Req.- 260 lf/50 ft = 5.2 or 6 street trees
- 3) All street trees will be located at least 3' from proposed curb.
- 4) All street trees will be located at least 10' from all storm sewer structures.
- 5) All turf areas will be sodded Except Lot 1 which will be seeded.
- 6) An in-ground irrigation system will be provided.

Revisions:		
Date	Description	No.
8/28/19	City Comments	1
12/18/19	City Comments	2

Drawn: BAD
Checked: DAD

DeLong Landscape Architecture, LLC
7620 West Bruno Ave
St. Louis, MO, 63117
(314) 346-4856
delong.la@gmail.com
Missouri State Certificate of Authority: #013000145

Sheet Title: Landscape Plan
Sheet No: **L-1**
Date: 06-28-2019
Job #: 105.019



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MAR 11 2020
City of Chesterfield - Department of Planning

%General Contractor:
%Structural Engineer:
Edifica case
engineering
1001 S. Brentwood Blvd., Suite 100
St. Louis, MO 63104
781.519.1800
F 314.344.1700
edifica.com
%Civil Engineer:
St. Charles Engineering & Surveying, Inc.

FIXTURES MOUNTED 20' ABOVE GRADE INCLUDING BASE LIGHT LEVEL CALCULATED ON THE GROUND

Calculation Summary		Units	Avg	Max	Min	Avg/Min	Max/Min
Label	CalcType	Fc	2.49	6.5	0.6	4.15	10.83
SITE	Illuminance	Fc	0.07	1.9	0.0	N.A.	N.A.
SPILL LIGHT	Illuminance	Fc	2.72	6.2	0.4	6.80	15.50
TRUCK DOCK AREA	Illuminance						

Luminaire Schedule		Label	Arrangement	Lum. Watts	Total Watts	LLF	Description
Symbol	Qty	WP	SINGLE	58	116	0.900	XTOR6B-W
	2	F1	SINGLE	225	450	0.912	GLEON-AF-04-LED-EI-SL4-HSS
	2	F2	SINGLE	225	450	0.912	GLEON-AF-04-LED-EI-SL4-HSS

NOTE:
THE WALL PACK FIXTURE 'WP' MODEL NUMBER 'XTOR6B-W' INDICATES THAT IT IS A FULL CUTOFF FIXTURE WITH A CARBON BRONZE HOUSING

New spec office warehouse building:
THE OFFICE
18357 Wings Corporate Drive
Chesterfield, Missouri 63005

ISSUE DATES:
CITY SUBMITTAL:

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dial architects
18364 Manchester Road • Manchester, Missouri 63011
636 230 0400 www.dialarchitects.com

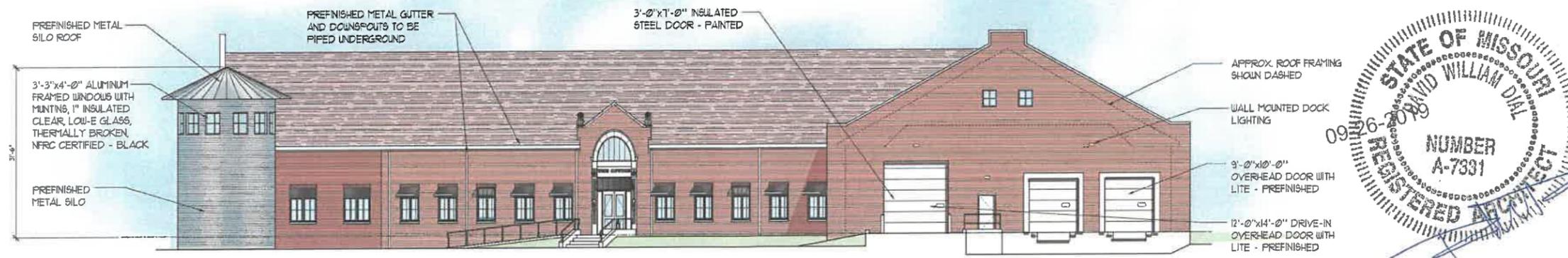
SHEET NUMBER:
PHOTOMETRIC PLAN



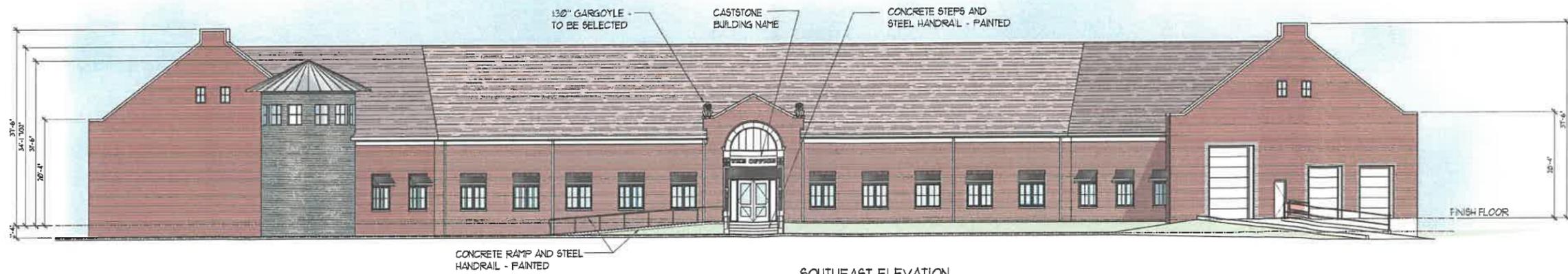
NORTHWEST ELEVATION
1" = 30'-0"



SOUTH ELEVATION
1" = 30'-0"



EAST ELEVATION
1" = 30'-0"



SOUTHEAST ELEVATION
1" = 30'-0"

General Contractor:
GS

Structural Engineer:
Adifica|case
engineering

Civil Engineer:
St. Charles Engineering & Surveying, Inc. S/C E/S

THE OFFICE

New spec office warehouse building:

18349 Wings Corporate Drive
Chesterfield, Missouri 63005

ISSUE DATES:
CITY SUBMITAL: 08-28-2019

COPYRIGHT © 2019 DAVID W. DIAL ARCHITECTS, P.C.

STATE OF MISSOURI REGISTERED ARCHITECT:
DAVID WILLIAM DIAL - LICENSE NUMBER A-7331
DAVID W. DIAL ARCHITECTS, P.C.
ARCHITECTURAL CORPORATION #2000149091

THE ARCHITECT'S SEAL AFFIXED TO THIS SHEET INDICATES THAT THE NAMED ARCHITECT HAS PREPARED OR DIRECTED THE PREPARATION OF THE MATERIAL SHOWN ONLY ON THIS SHEET. OTHER DRAWINGS AND DOCUMENTS, NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED BY OR THE RESPONSIBILITY OF THE UNDERSIGNED.

dial architects
14354 Manchester Road • Manchester, Missouri 63011
636 230 0400 www.dialarchitects.com

SHEET NUMBER:
ELEVATIONS
PROJECT NUMBER: 18070 DATE: 06-20-2019

RECEIVED

MAR 11 2020

City of Chesterfield-Department of Planning



dial architects

14364 Manchester Road
Manchester Missouri 63011
636 230 0400

September 26, 2019

City of Chesterfield
Department of Planning
690 Chesterfield Parkway West
Chesterfield, Missouri 63017-0760

Members of the Architectural Review Board

Re: Architectural Statement
 Submittal for Approval of New Facility on Lot 1.
 Wings Corporate Estates, Lot 1 – 18357 Wings Corporate Drive

General Requirements for Site Design

This project consists of a single-story speculative office/warehouse building designed for a single tenant. The site is located near the entry of Wings Corporate Estates on the north side of Wings Corporate Drive near Eatherton Road on the far west side of Chesterfield Valley in the Wings Development. The owner of this development is also the owner of this building. It is his intent to create an upscale business park by creating ‘specialty design’ buildings. This building is the fourth building of its kind in the park, but the sixth building in the park as a whole.

As you can see from the photos in this packet, the rectangular site is treeless and generally flat other than the drainage ditch and is otherwise featureless. The building is strategically located on the site to be compatible with the existing drainage system for the development, an existing 60’ wide oil pipeline easement and congruous with the other buildings in the development.

The approved concept plan for the entire development shows a 5’ wide side walk on the south side of Wings Corporate Drive to provide pedestrian circulation. While we cannot control future development of neighboring sites, this specific site design forces a shared entrance with a future neighbor to the west. This concept is key to the park owners desires for this overall development.

We are not proposing the use of fencing at this time.

Landscaping is designed per city ordinance in a similar fashion to the adjacent developments. Please see attached landscape plan.

General Requirements for Building Design

The owner of this facility, being a long time and current resident of the City of Chesterfield, places a high priority on the appearance of his facility and has played a major role in the design of this facility.

The intent of the design is to represent the anchor of a small town, a turn of the century, old factory, brick building. The front (southeast) elevation is articulated with detailed brick features, cast stone, glass, a canopy, gargoyles and a clearly identifiable old fashion mantle clock main entry. The south end of the front elevation employs a contrasting natural metal silo, taking us back to the days of old. The windows create rhythmically pleasing patterns accented with naturally formed, projected brick headers, cast stone sills and small awnings. The undulating brick detail and opposing shapes to add depth and a sense of place. The articulated brick and glass wraps around the entire building to give a sense of pleasure and encourage one to explore the building further.

The back of the building is articulated with windows that create rhythmically pleasing patterns accented with naturally formed, projected brick headers. The building will utilize an earth tone color, and earth tone red brick, cast stone sills and caps and fixed windows. The colors, glass, brick and metal items are juxtaposed on the façades of the building to create an excellent overall building design. These include a front building color of a rich red brick and light cast stone and a corner attraction of a galvanized corrugated steel silo. In addition, the front has a grand stairway leading to a oversized aluminum and glass doors flanked by eternal gas flames, fleur-de-lis and large friendly gargoyles on the top of the entry giving a sense of adventure inside. The intended office area will receive the strong morning eastern light and bright southern daylight.

All sides of this building are treated in a historically accurate fashion. We have not only ‘designed’ the street elevations. The building materials are the same as all of the other buildings in this park, but are being used in more design appropriate ways to deliver an aesthetically pleasing solution. The natural brick and prefinished galvanized metal panels and roof will last for generations to come. The contracting accent of the architectural shingled sloped roof pulls the whole design ensemble together known as “The Office”.

The windows for this project, in keeping with its strong design theme, are fixed and are energy compliant windows. We have used the glass on all sides of the building as an effective design element in the elevational articulation.

The design is respectful of the surrounding development in general and is harmonious in scale, material, and color. Nearby buildings utilize brick and tilt-up concrete with earth tone colors and materials similar to ours. The Building sign will be applied to the building with cast stone.

Site lighting is planned to be four light standards in the front of the building, three along Wings Corporate Drive and one light standard closer to the interior of the site, east of the building. The Owner of the whole development owns Lots 1 & 2. The Owner is planning on developing Lot-2 at the same time as Lot-1 and they share an entry and due to an existing large electrical switch located on the property line between these two lots, the entry drive starts on Lot-1. Some site lighting for this project, Lot-1, will be shared by both lots and will not shine off of the Owners property in an unnecessary fashion.

Please see the site development section plan for drainage information.

The proposed HVAC system is planned to be ground mounted.

Specific Requirements for the Chesterfield Valley

As stated above we encompass the building with reveals and colors for continuity while highlighting the visible front with brick and glass. The trash receptacle will be screened from public view with brick to coordinate with the building.

The electrical service will be provided by a new transformer located along the east side of the property north of the building and will receive vegetation to screen the units. All utilities to this building are underground.

I-64/US-40 is to the north of this property and is not readily visible from the property. Automobile parking is southeast, and south of the building and the service/loading area is on the east side of the building.

Street lighting is included in this project to match the existing industrial park street lighting and is located to the south of the building along Wings Corporate Drive.

It remains our intention to provide a design that will enhance the local environment while blending with the building types already in Wings Corporate Estates. The owner is excited about providing a new quality designed facility for the City of Chesterfield.

Thank you for your assistance.

As required, building materials will be brought to the ARB meeting and will include:

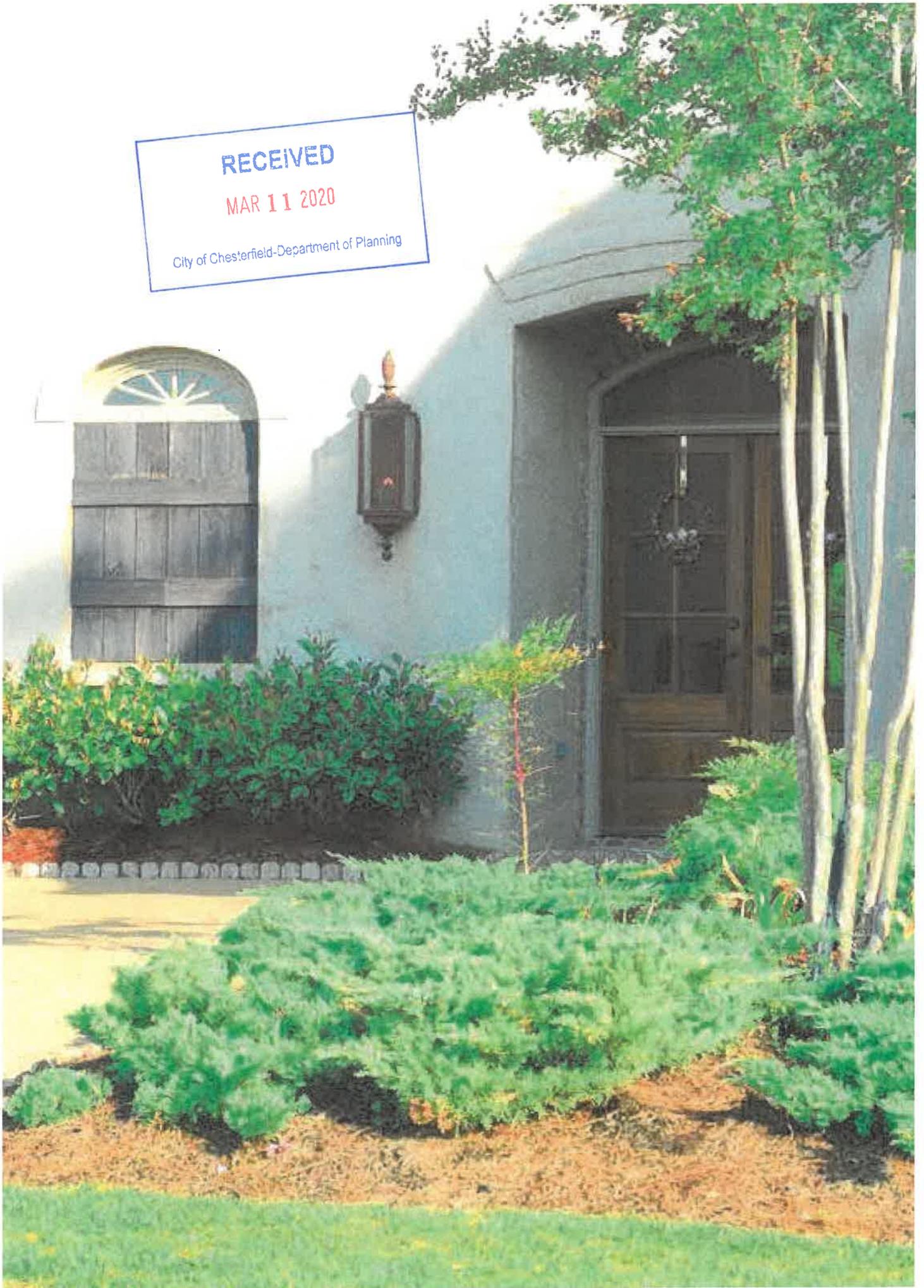
- Glass and frame sample
- Color samples of the concrete coatings
- Asphalt Shingle Roof

End of Architects Statement

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MAR 11 2020

City of Chesterfield-Department of Planning



RECEIVED

MAR 11 2020

City of Chesterfield-Department of Planning

Parisian Wall Mount Gas Light by Copper Sculptures

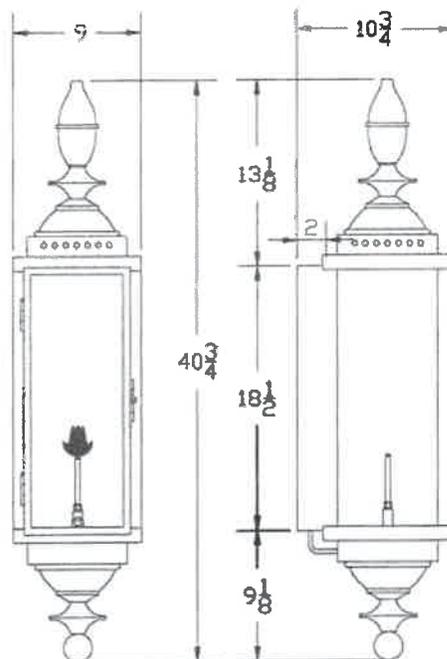
Copper Sculptures, Inc., created by Bill Shook is one of the few remaining companies in the world handcrafting copper lanterns with open flame burners. Sculpting copper and flame into period light fixtures consists of both art and history. Having perfected the craft, Copper Sculptures is able to offer the elegance of period lanterns with contemporary designs. Each lantern is handcrafted with pride and built only of solid copper with no lead to melt, allowing us to guarantee these lanterns for a lifetime.

All natural gas and propane lanterns are C.S.A. certified to comply with ANSI Standard Z21.42 for indoor or outdoor use.

Lantern ID: ECO shown with patina finish black (PFB)

Lantern Dimensions: 40.75 x 9 x 10.75

EC-1 WALL MOUNT LIGHT



DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

SPECIFICATION FEATURES

Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens

assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaires are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress

Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting

Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

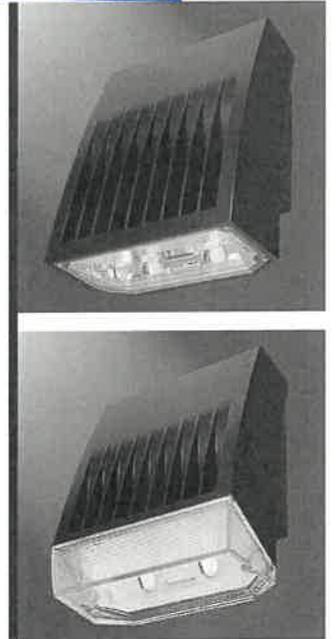
Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five-year warranty.

Catalog #	XTOR6BRL-W	Type	WP
Project	WING RECEIVED	Date	
Comments	MAR 11 2020		
Prepared by	City of Chesterfield-Department of Planning		



XTOR CROSSTOUR MAXX LED

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING



CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
DesignLights Consortium* Qualified*

TECHNICAL DATA

40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

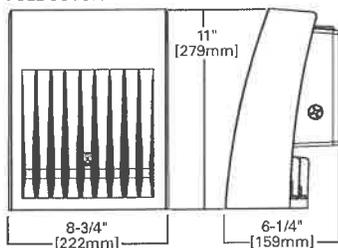
Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54
With Pole Mount Arm=0.98

SHIPPING DATA:

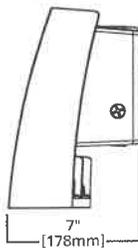
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

DIMENSIONS

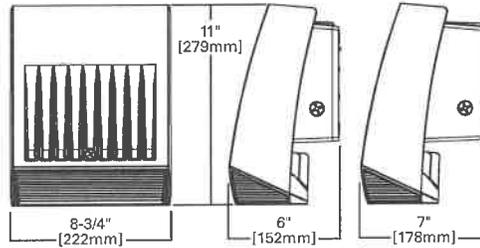
FULL CUTOFF



DEEP BACK BOX



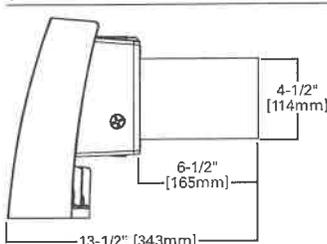
REFRACTIVE LENS



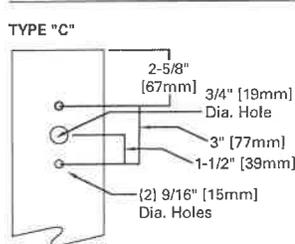
DEEP BACK BOX



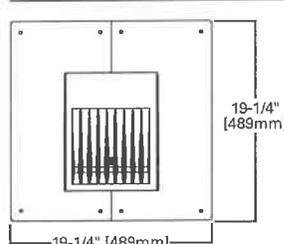
OPTIONAL POLE MOUNT ARM



ARM DRILLING



ESCUTCHEON PLATES



ORDERING INFORMATION

Sample Number: XTOR6B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR6B=58W XTOR8B=81W XTOR12B=102W Refractive Lens XTOR6BRL=58W XTOR8BRL=81W XTOR12BRL=102W	[Blank]=Bright White (Standard) 5000K W=Neutral, 4000K Y=Warm, 3000K	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black BZ=Bronze AP=Grey GM=Graphite Metall OP=Mark Titanium	347V=347V ^{2,3,4,5} 480V=480V ^{2,3,4,5,6} PC1=Photocontrol 120V ⁷ PC2=Photocontrol 208-277V ⁸ PMA=Pole Mount Arm (C Drilling) with Round Adapter ^{9,9} MS-L20=Motion Sensor for ON/OFF Operation ^{2,3,10,11} MS/DIM-L20=Motion Sensor for Dimming Operation ^{2,3,10,11,12,13,14} CBP=Cold Weather Battery Pack ^{2,3,15,16,17} HA=50°C High Ambient ¹⁷
Accessories (Order Separately)			
WG-XTORMX=Crosstour MAXX Wire Guard PB120V=Field Installed 120V Photocontrol PB277V BUTTON PC=Field Installed 208-277V Photocontrol ⁸ VA1040-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1041-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1042-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1043-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1044-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1045-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1046-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸		VA1033-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1034-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1035-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1036-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1037-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1038-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ EWP/XTORMX=Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT=Escutcheon Wall Plate, Summit White FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁴	

NOTES:

- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
- Not available with HA option.
- Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20.
- Not available with CBP option.
- Thru-branch wiring not available with HA option or with 347V.
- Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
- Not available with MS-L20 and MS/DIM-L20 options.
- Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead.
- 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.
- For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.
- 120V thru 277V only.
- Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.
- Includes integral photo sensor.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Eaton for more information.
- 120V or 277V operation only.
- Operating temperatures -20°C to 25°C.
- Not available in XTOR12B or XTOR12BRL models.
- Replace XX with housing color.

STOCK ORDERING INFORMATION

58W Series	81W Series	102W Series
Full Cutoff		
XTOR6B=58W, 5000K, Carbon Bronze	XTOR8B=81W, 5000K, Carbon Bronze	XTOR12B=102W, 5000K, Carbon Bronze
XTOR6B-PC1=58W, 5000K, 120V PC, Carbon Bronze	XTOR8B-PC1=81W, 5000K, 120V PC, Carbon Bronze	
XTOR6B-WT=58W, 5000K, Summit White	XTOR8B-WT=81W, 5000K, Summit White	
XTOR6B-W=58W, 4000K, Carbon Bronze	XTOR8B-PC2=81W, 5000K, 208-277V PC, Carbon Bronze	
XTOR6B-PMA=58W, 5000K, Pole Mount Arm, Carbon Bronze	XTOR8B-PMA=81W, 5000K, Pole Mount Arm, Carbon Bronze	
XTOR6B-PC2=58W, 5000K, 208-277V PC, Carbon Bronze	XTOR8B-347V=81W, 5000K, Carbon Bronze, 347V	
Refractive Lens		
XTOR6BRL=58W, 5000K, Refractive Lens, Carbon Bronze	XTOR8BRL=81W, 5000K, Refractive Lens, Carbon Bronze	XTOR12BRL=102W, 5000K, Refractive Lens, Carbon Bronze
XTOR6BRL-PC1=58W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR8BRL-PC1=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR12BRL-W=102W, 4000K, Refractive Lens, Carbon Bronze
XTOR6BRL-WT=58W, 5000K, Refractive Lens, Summit White	XTOR8BRL-WT=81W, 5000K, Refractive Lens, Summit White	XTOR12BRL-347V=102W, 5000K, Refractive Lens, Carbon Bronze, 347V
XTOR6BRL-W=58W, 4000K, Refractive Lens, Carbon Bronze	XTOR8BRL-PC2=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	
XTOR6BRL-PMA=58W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	XTOR8BRL-PMA=81W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	
XTOR6BRL-PC2=58W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	XTOR8BRL-W=81W, 4000K, Refractive Lens, Carbon Bronze	
XTOR6BRL-347V=58W, 5000K, Refractive Lens, Carbon Bronze, 347V	XTOR8BRL-347V=81W, 5000K, Refractive Lens, Carbon Bronze, 347V	

DESCRIPTION

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

Catalog #		Type
Project		
Comments	<p style="text-align: center;">RECEIVED City of Chesterfield</p> <p style="text-align: center;">Mar 13 2020</p>	Date
Prepared by		
		Department of Public Services

SPECIFICATION FEATURES

Construction

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

Optics

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

Electrical

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

Mounting

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

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

Finish

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

Warranty

Five-year warranty.



GLEON GALLEON LED

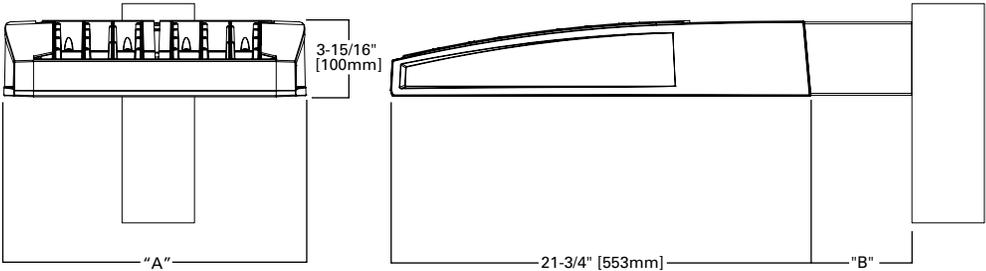
1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE



LumenSafe Technology
[CLICK HERE](#)

DIMENSIONS

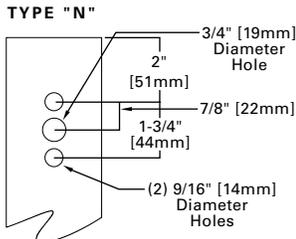


DIMENSION DATA

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

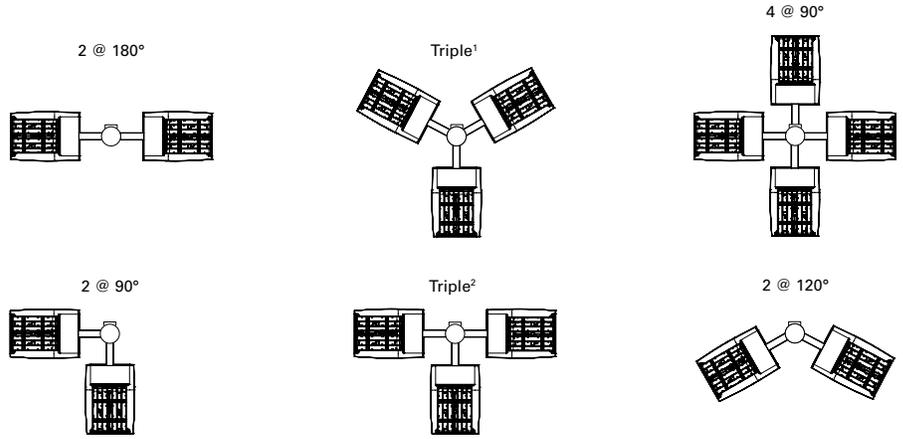
NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN



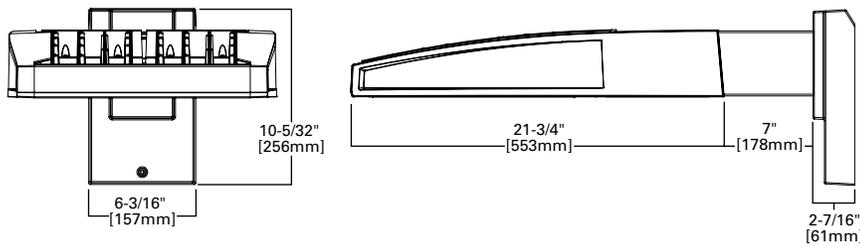
ARM MOUNTING REQUIREMENTS

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

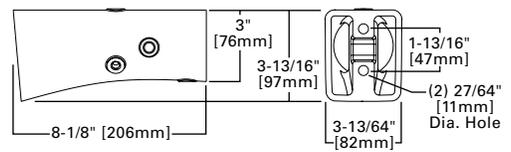


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

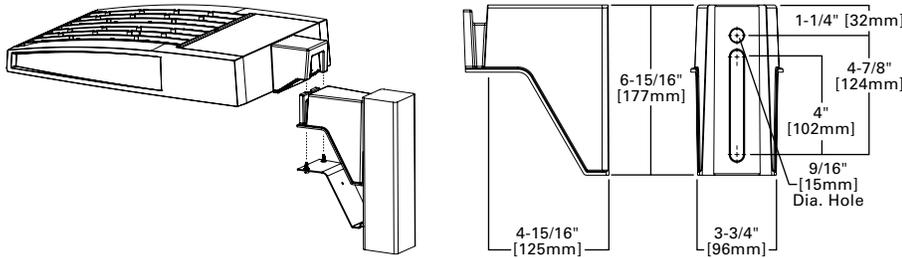
STANDARD WALL MOUNT



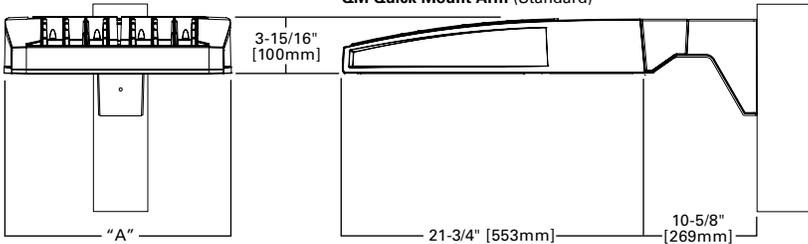
MAST ARM MOUNT



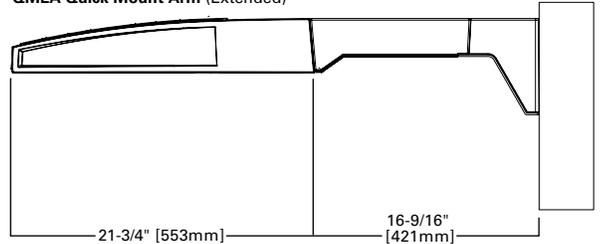
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)



QUICK MOUNT ARM DATA

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

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

ORDERING INFORMATION

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

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ^{7,8}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²

Options (Add as Suffix)	Accessories (Order Separately)
<p>7027=70 CRI 2700K¹³ 7030=70 CRI 3000K¹³ 8030=80 CRI 3000K¹⁴ 7050=70 CRI 5000K¹³ 7060=70 CRI 6000K¹³ 600=Drive Current Factory Set to Nominal 600mA¹⁵ 800=Drive Current Factory Set to Nominal 800mA¹⁵ 1200=Drive Current Factory Set to Nominal 1200mA^{15,16} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits^{17,18} DIM=External 0-10V Dimming Leads^{19,20} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)²¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle²¹ R=NEMA Twistlock Photocontrol Receptacle²¹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD355=After Hours Dim, 8 Hours²² HA=50°C High Ambient²³ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{24,26} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{24,27} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{24,28} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25,29} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,26,29} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{22,27,29} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{24,28,29} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{24,25} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{24,26} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{24,27} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{24,28} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height³⁰ LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height³⁰ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing³¹ HSS=Factory Installed House Side Shield³² CE=CE Marking³³</p>	<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹⁰ GLEON-QMEA=Quick Mount Extended Arm Kit¹¹ LS/HSS=Field Installed House Side Shield^{32,33} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin)³⁵</p>

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

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

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology* 	D=Dome Camera	<p>C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card</p> <p>R=Cellular, Factory Installed Rogers SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking</p>

*Consult LumenSafe system pages for additional details and compatibility. Not available with 9-10 light square housing. Not available with 347V, 480V or high ambient options.

DESCRIPTION

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

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

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

Optics

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

Electrical

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

Mounting

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

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

Finish

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

Warranty

Five-year warranty.



GLEON GALLEON LED

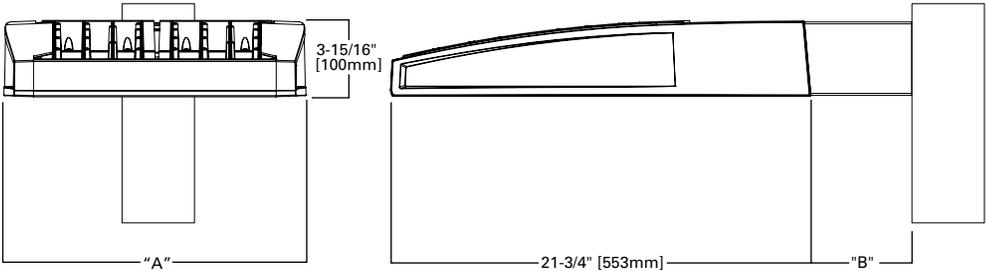
1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE



LumenSafe Technology
[CLICK HERE](#)

DIMENSIONS

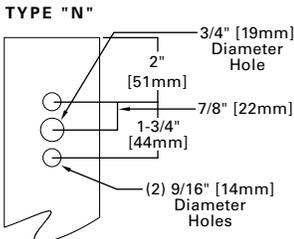


DIMENSION DATA

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

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

DRILLING PATTERN



CERTIFICATION DATA

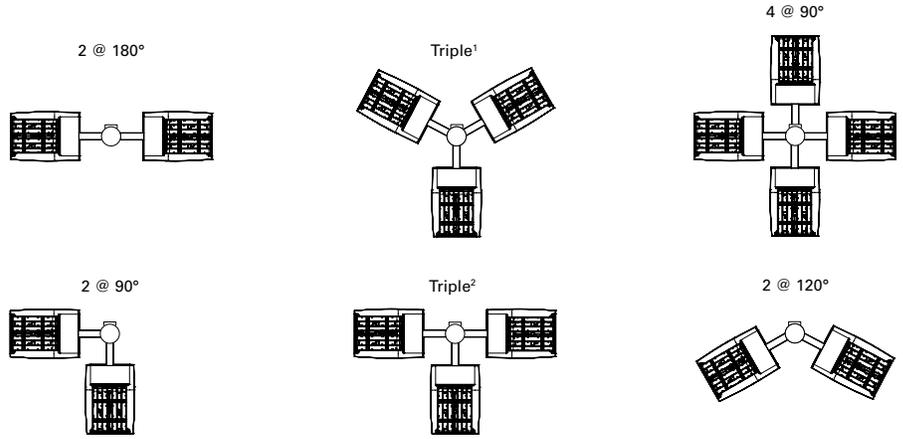
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA

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

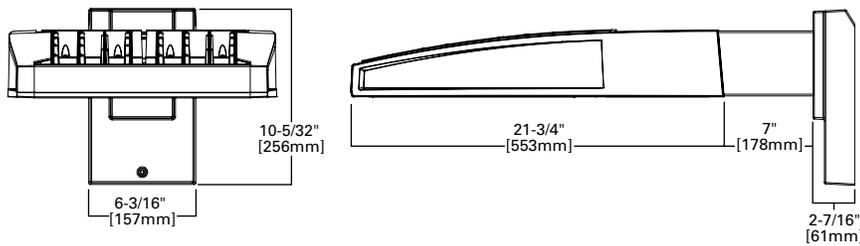
ARM MOUNTING REQUIREMENTS

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

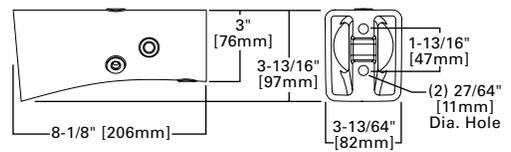


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

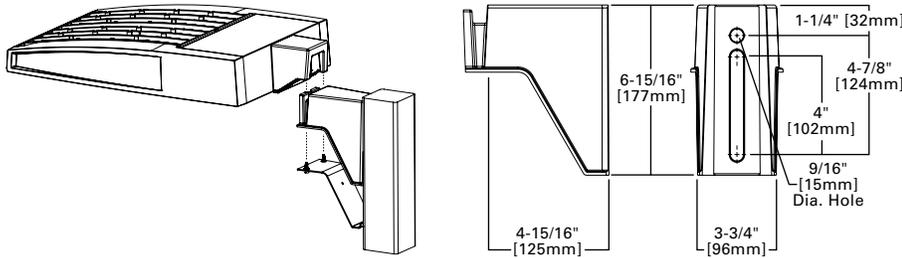
STANDARD WALL MOUNT



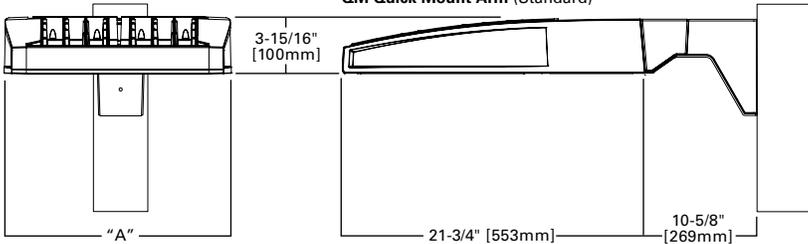
MAST ARM MOUNT



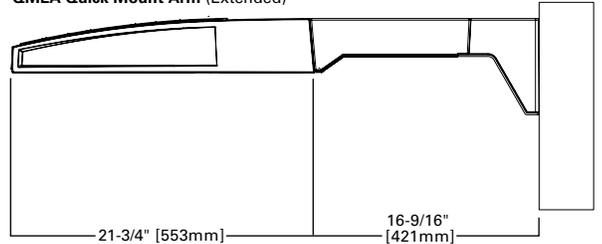
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

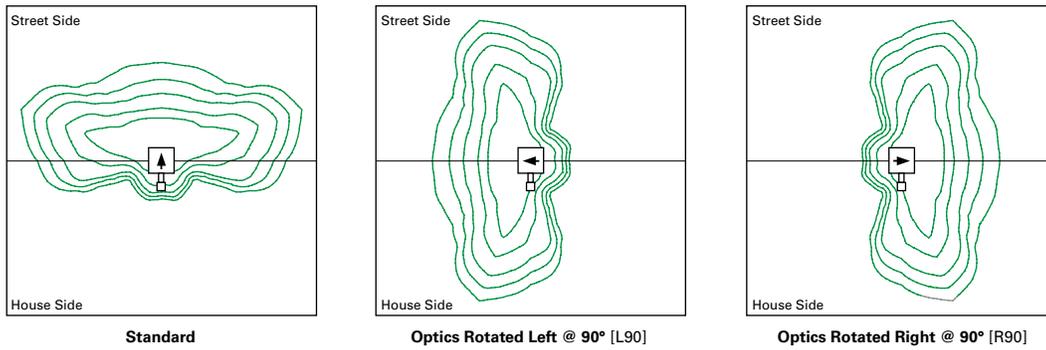


QUICK MOUNT ARM DATA

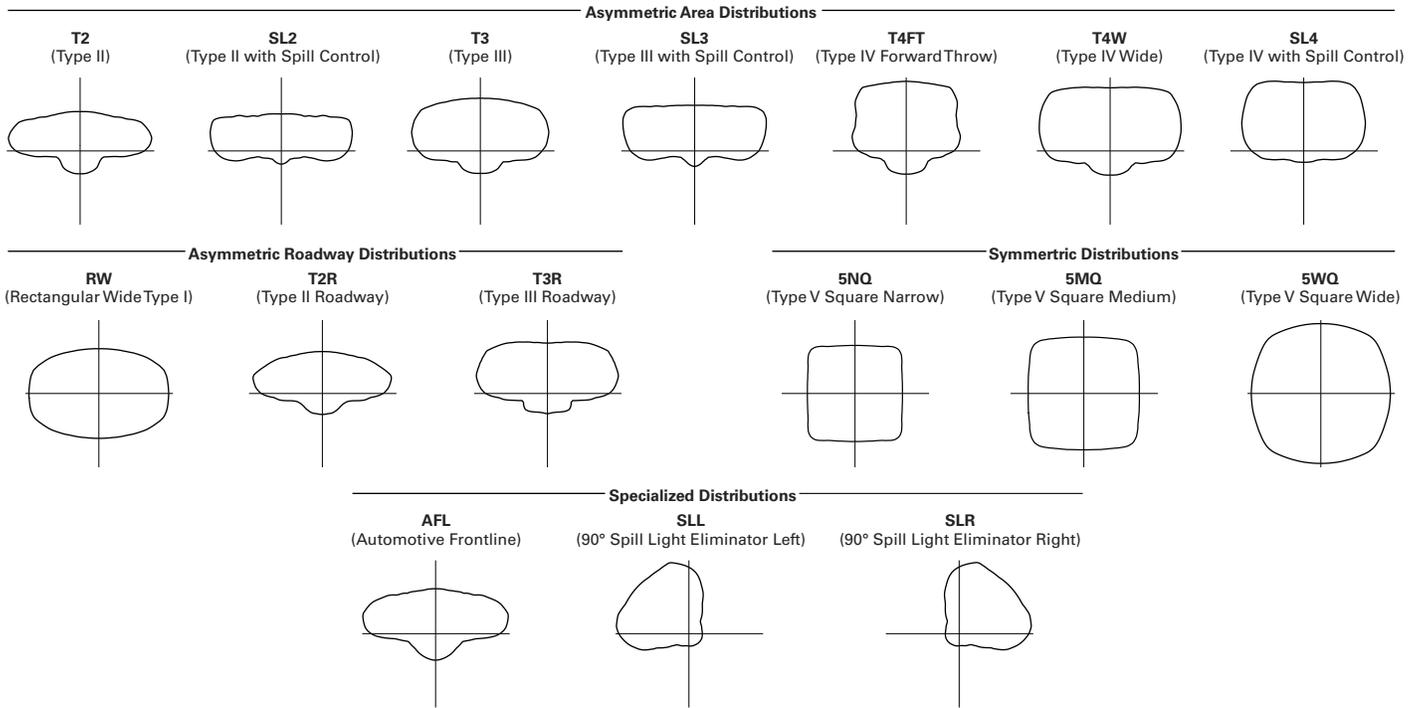
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	59 (26.82 kgs.)	

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

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

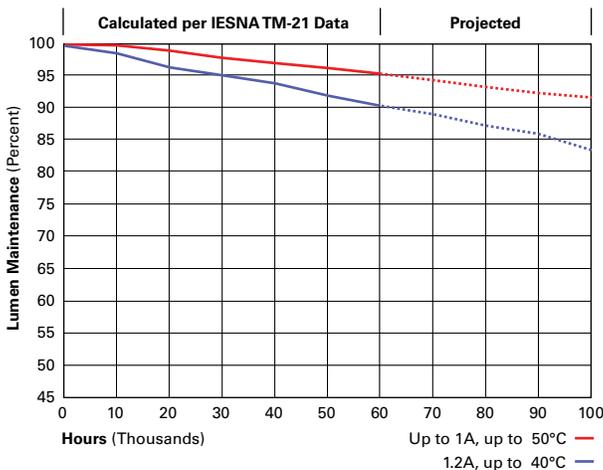


LUMEN MAINTENANCE

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

LUMEN MULTIPLIER

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



NOMINAL POWER LUMENS (1.2A)

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

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

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

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

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

Photocontrol (P, R and PER7)

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

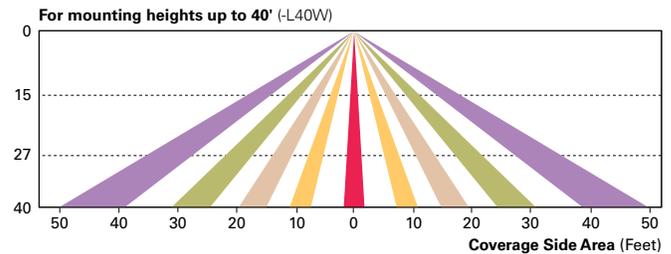
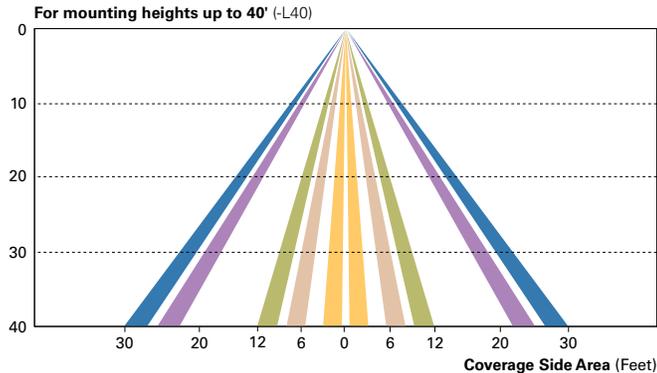
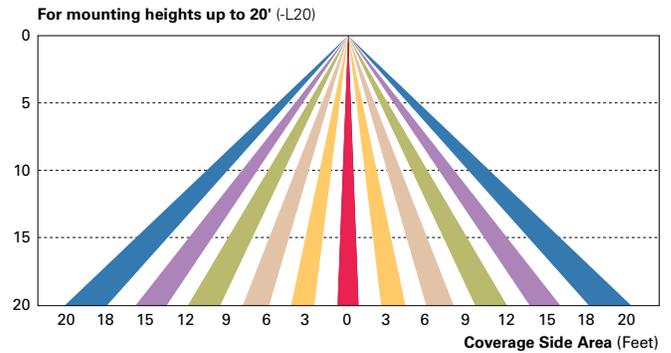
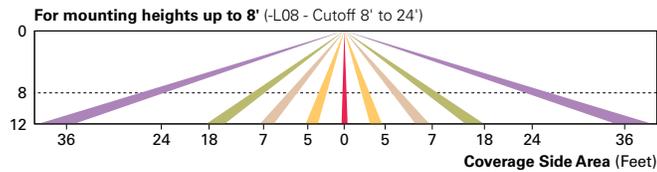
After Hours Dim (AHD)

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

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

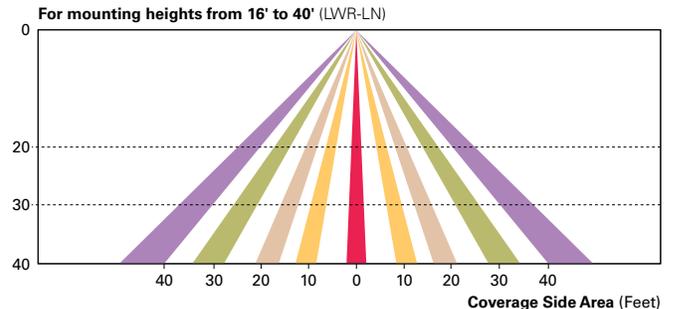
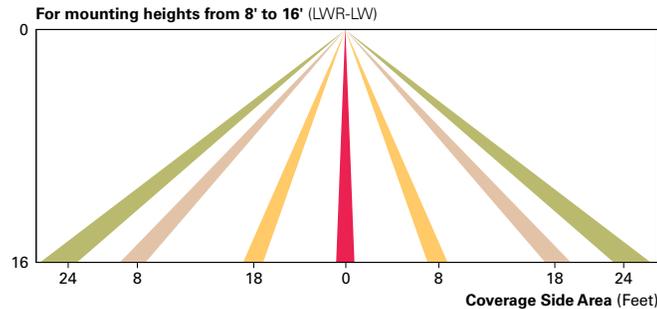
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The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

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



LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



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

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

LumenSafe Integrated Network Security Camera (LD)

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

ORDERING INFORMATION

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

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ^{7,8}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²

Options (Add as Suffix)	Accessories (Order Separately)
<p>7027=70 CRI 2700K¹³ 7030=70 CRI 3000K¹³ 8030=80 CRI 3000K¹⁴ 7050=70 CRI 5000K¹³ 7060=70 CRI 6000K¹³ 600=Drive Current Factory Set to Nominal 600mA¹⁵ 800=Drive Current Factory Set to Nominal 800mA¹⁵ 1200=Drive Current Factory Set to Nominal 1200mA^{15,16} F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits^{17,18} DIM=External 0-10V Dimming Leads^{19,20} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)²¹ PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle²¹ R=NEMA Twistlock Photocontrol Receptacle²¹ AHD145=After Hours Dim, 5 Hours²² AHD245=After Hours Dim, 6 Hours²² AHD255=After Hours Dim, 7 Hours²² AHD355=After Hours Dim, 8 Hours²² HA=50°C High Ambient²³ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{24,25} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{24,26} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{24,27} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{24,28} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25,29} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,26,29} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{22,27,29} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{24,28,29} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{24,25} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{24,26} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{24,27} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{24,28} LWR-LW=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height³⁰ LWR-LN=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height³⁰ L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing³¹ HSS=Factory Installed House Side Shield³² CE=CE Marking³³</p>	<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁴ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares GLEON-QM=Quick Mount Arm Kit¹⁰ GLEON-QMEA=Quick Mount Extended Arm Kit¹¹ LS/HSS=Field Installed House Side Shield^{32,33} WOLC-7P-10A=WaveLinX Outdoor Control Module (7-pin)³⁵</p>

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

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

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology* 	D=Dome Camera	<p>C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card</p> <p>R=Cellular, Factory Installed Rogers SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking</p>

*Consult LumenSafe system pages for additional details and compatibility. Not available with 9-10 light square housing. Not available with 347V, 480V or high ambient options.

DESCRIPTION

The patented Lumark Crosstour™ MAXX LED wall pack series of luminaires provides low-profile architectural style with super bright, energy-efficient LEDs. The rugged die-cast aluminum construction, back box with secure lock hinges, stainless steel hardware along with a sealed and gasketed optical compartment make Crosstour impervious to contaminants. The Crosstour MAXX wall luminaire is ideal for wall/surface, inverted mount for facade/canopy illumination, perimeter and site lighting. Typical applications include pedestrian walkways, building entrances, multi-use facilities, industrial facilities, perimeter parking areas, storage facilities, institutions, schools and loading docks.

SPECIFICATION FEATURES

Construction

Low-profile LED design with rugged one-piece, die-cast aluminum back box and hinged removable door. Matching housing styles incorporate both a full cutoff and refractive lens design. Full cutoff and refractive lens models are available in 58W, 81W and 102W. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes four 1/2" NPT threaded conduit entry points. The back box is secured by four lag bolts (supplied by others). External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered reflector providing high-efficiency illumination. Full cutoff models integrate an impact-resistant molded refractive prism optical lens assembly meeting requirements for Dark Sky compliance. Refractive lens models incorporate a molded lens

assembly designed for maximum forward throw. Solid state LED Crosstour MAXX luminaires are thermally optimized with eight lumen packages in cool 5000K, neutral 4000K, or warm 3000K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast aluminum housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 58W, 81W and 102W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C [122°F] models available in 58W and 81W models only. Crosstour MAXX luminaires maintain greater than 89% of initial light output after 72,000 hours of operation. Four half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz, 480V 60Hz, or 347V 60Hz electrical operation. 480V is compatible for use with 480V Wye systems only.

Emergency Egress

Optional integral cold weather battery emergency egress includes emergency operation test switch (available in 58W and 81W models only), an AC-ON indicator light and a premium extended rated sealed maintenance-free nickel-metal hydride battery pack. The separate emergency lighting LEDs are wired to provide redundant emergency lighting. Listed to UL Standard 924, Emergency Lighting.

Area and Site Pole Mounting

Optional extruded aluminum 6-1/2" arm features internal bolt guides for supplied twin support rods, allowing for easy positioning of the fixture during installation to pole. Supplied with round plate adapter plate. Optional tenon adapter fits 2-3/8" or 3-1/2" O.D. Tenon.

Finish

Crosstour MAXX is protected with a super TGIC carbon bronze or summit white polyester powder coat paint. Super TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

Five-year warranty.



XTOR CROSSTOUR MAXX LED

APPLICATIONS:
WALL / SURFACE
INVERTED
SITE LIGHTING



CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
NOM Compliant Models
3G Vibration Tested
UL924 Listed (CBP Models)
IP66 Rated
DesignLights Consortium® Qualified*

TECHNICAL DATA

40°C Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

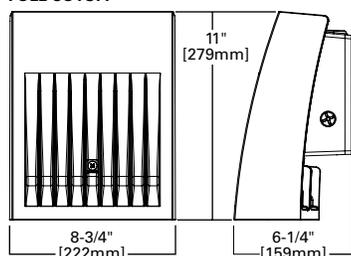
Effective Projected Area (Sq. Ft.):
XTOR6B, XTOR8B, XTOR12B=0.54
With Pole Mount Arm=0.98

SHIPPING DATA:

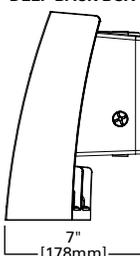
Approximate Net Weight:
12-15 lbs. [5.4-6.8 kgs.]

DIMENSIONS

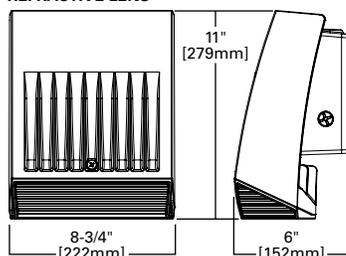
FULL CUTOFF



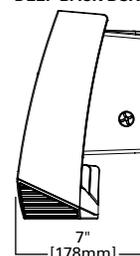
DEEP BACK BOX



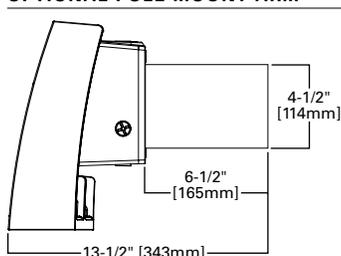
REFRACTIVE LENS



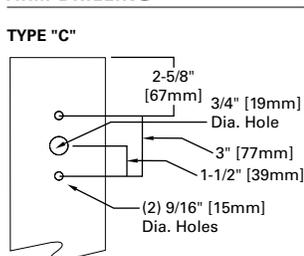
DEEP BACK BOX



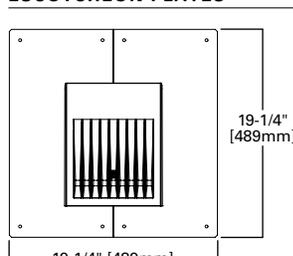
OPTIONAL POLE MOUNT ARM



ARM DRILLING



ESCUTCHEON PLATES



ORDERING INFORMATION

Sample Number: XTOR6B-W-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)
Full Cutoff XTOR6B=58W XTOR8B=81W XTOR12B=102W Refractive Lens XTOR6BRL=58W XTOR8BRL=81W XTOR12BRL=102W	[Blank]=Bright White (Standard) 5000K W=Neutral, 4000K Y=Warm, 3000K	[Blank]=Carbon Bronze (Standard) WT=Summit White BK=Black BZ=Bronze AP=Grey GM=Graphite Metallic DP=Dark Platinum	347V=347V ^{2,3,4,5} 480V=480V ^{2,3,4,5,6} PC1=Photocontrol 120V ⁷ PC2=Photocontrol 208-277V ^{7,8} PMA=Pole Mount Arm (C Drilling) with Round Adapter ^{3,9} MS-L20=Motion Sensor for ON/OFF Operation ^{2,3,10,11} MS/DIM-L20=Motion Sensor for Dimming Operation ^{2,3,10,11,12,13,14} CBP=Cold Weather Battery Pack ^{2,3,15,16,17} HA=50°C High Ambient ¹⁷
Accessories (Order Separately)			
WG-XTORMX=Crosstour MAXX Wire Guard PB120V=Field Installed 120V Photocontrol PB277V BUTTON PC=Field Installed 208-277V Photocontrol ⁸ VA1040-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1041-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1042-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1043-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1044-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1045-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸ VA1046-XX=2@120° Tenon Adapter for 3-1/2" O.D. Tenon ¹⁸		VA1033-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1034-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1035-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1036-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1037-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1038-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ VA1039-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon ¹⁸ EWP/XTORMX=Escutcheon Wall Plate, Carbon Bronze EWP/XTORMX-WT=Escutcheon Wall Plate, Summit White FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁴	

- NOTES:**
- DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details.
 - Not available with HA option.
 - Deep back box is standard for 347V, 480V, CBP, PMA, MS-L20 and MS/DIM-L20.
 - Not available with CBP option.
 - Thru-branch wiring not available with HA option or with 347V.
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - Not available with MS-L20 and MS/DIM-L20 options.
 - Use PC2 with 347V or 480V option for photocontrol. Factory wired to 208-277V lead.
 - 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.
 - For use in downlight orientation only. Optimal coverage at mounting heights of 9'-20'.
 - 120V thru 277V only.
 - Factory set to 50% power reduction after 15-minutes of inactivity. Dimming driver included.
 - Includes integral photo sensor.
 - The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff, and more. Consult your lighting representative at Eaton for more information.
 - 120V or 277V operation only.
 - Operating temperatures -20°C to 25°C.
 - Not available in XTOR12B or XTOR12BRL models.
 - Replace XX with housing color.

STOCK ORDERING INFORMATION

58W Series	81W Series	102W Series
Full Cutoff		
XTOR6B=58W, 5000K, Carbon Bronze	XTOR8B=81W, 5000K, Carbon Bronze	XTOR12B=102W, 5000K, Carbon Bronze
XTOR6B-PC1=58W, 5000K, 120V PC, Carbon Bronze	XTOR8B-PC1=81W, 5000K, 120V PC, Carbon Bronze	
XTOR6B-WT= 58W, 5000K, Summit White	XTOR8B-WT=81W, 5000K, Summit White	
XTOR6B-W=58W, 4000K, Carbon Bronze	XTOR8B-PC2=81W, 5000K, 208-277V PC, Carbon Bronze	
XTOR6B-PMA= 58W, 5000K, Pole Mount Arm, Carbon Bronze	XTOR8B-PMA=81W, 5000K, Pole Mount Arm, Carbon Bronze	
XTOR6B-PC2= 58W, 5000K, 208-277V PC, Carbon Bronze	XTOR8B-347V=81W, 5000K, Carbon Bronze, 347V	
Refractive Lens		
XTOR6BRL=58W, 5000K, Refractive Lens, Carbon Bronze	XTOR8BRL=81W, 5000K, Refractive Lens, Carbon Bronze	XTOR12BRL=102W, 5000K, Refractive Lens, Carbon Bronze
XTOR6BRL-PC1=58W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR8BRL-PC1=81W, 5000K, Refractive Lens, 120V PC, Carbon Bronze	XTOR12BRL-W=102W, 4000K, Refractive Lens, Carbon Bronze
XTOR6BRL-WT=58W, 5000K, Refractive Lens, Summit White	XTOR8BRL-WT=81W, 5000K, Refractive Lens, Summit White	XTOR12BRL-347V=102W, 5000K, Refractive Lens, Carbon Bronze, 347V
XTOR6BRL-W=58W, 4000K, Refractive Lens, Carbon Bronze	XTOR8BRL-PC2=81W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	
XTOR6BRL-PMA=58W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	XTOR8BRL-PMA=81W, 5000K, Refractive Lens, Pole Mount Arm, Carbon Bronze	
XTOR6BRL-PC2=58W, 5000K, Refractive Lens, 208-277V PC, Carbon Bronze	XTOR8BRL-W=81W, 4000K, Refractive Lens, Carbon Bronze	
XTOR6BRL-347V=58W, 5000K, Refractive Lens, Carbon Bronze, 347V	XTOR8BRL-347V = 81W, 5000K, Refractive Lens, Carbon Bronze, 347V	

UCM/UCL

Universe Collection® – Medium/Large Scale

STREET LIGHT

CONTEMPORARY



- MicroCore™ technology
- First decorative, modular system with precise LED aiming capabilities
- Surge protection included
- 0-10v dimming ready
- IP66 optics
- DLC listed
- Powder coat finish in 13 standard colors with a polymer primer sealer

ORDERING INFORMATION

UCM/UCL		HOOD		COLOR TEMPERATURE		COLORS		OPTIONS	
UCM	Universe Medium	ANG	Angled hood	UCM		AWT	Arctic White	OPTIONS - HOOD	
UCL	Universe Large	BEL	Bell hood	32LED-3K	Warm White, 3000K output	BLK	Black	COP	Copper
UCM Upgrade Kit – UCM-LK		FLR	Flared hood	32LED-4K	Neutral White, 4200K output	MTB	Matte Black	STS	Stainless Steel
UPLT	For internal illumination. Add 4 watts	STR	Straight hood	32LED-5K	Bright White, 5100K output	DGN	Dark Green	OPTIONS	
Distribution	T2, T3, T4, T5, TL, TR	SKB	Skirted bell hood	UCL		DBZ	Dark Bronze	WIH	Integral HBA wiHUBB IFM transceiver and antenna
Color	32LED-3K, 32LED-4K, 32LED-5K	LUMINOUS ELEMENTS		56LED-3K	Warm White, 3000K output	WRZ	Weathered Bronze	SLC	Luminous element remains unlit during normal operation
Driver	700 (700mA, 75 watts)	WND	4 luminous windows	56LED-4K	Neutral White, 4200K output	BRM	Metallic Bronze	FTG	Flat glass lens.
Bezel Fishes	Available in 13 standard finishes and premium finishes	SR	Solid rings	56LED-5K	Bright White, 5100K output	VBL	Verde Blue	FLD	Lightly diffused finish on flat glass lens
UCL Upgrade Kit – UCL-LK		VSL	Vertical slots	DRIVER		CRT	Corten	SAG	Clear sag glass lens. UCM MicroCore only.
UPLT	For internal illumination. Add 4 watts	LUM	Luminous rings	120 thru 277 volt		MAL	Matte Aluminum	RCK	Rock guard painted black. UCM only.
Distribution	T2, T3, T4, T5, TL, TR	LUMINOUS RINGS COLOR OPTION		UCM		MDG	Medium Grey	LDL	Lightly diffused lens
Color	56LED-3K, 56LED-4K, 56LED-5K	BL	Blue inner lens	700	700mA drive current, 75 watts	ATG	Antique Green	PCA-C	Rotatable photocell housing-contemporary
Driver	700 (700mA, 132 watts) 450 (450mA, 85 watts)	RD	Red inner lens	UCL		LGY	Light Grey	SCP	Programmable motion control, factory default is 50%, requires pole.
Bezel Fishes	Available in 13 standard finishes and premium finishes	GRN	Green inner lens	700	700mA drive current, 132 watts	RAL/PREMIUM COLOR	Provide a RAL 4 digit color number		
		DISTRIBUTION		450	450mA drive current, 85 watts	CUSTOM COLOR	Please provide a color chip for matching		
		T2	Type 2						
		T3	Type 3						
		T4	Type 4						
		T5	Type 5						
		TL	45° Left						
		TR	45° Right						

Please visit www.aal.net for mounting, dimensions, weight and EPA.



— BROCK SOLID® —

NON-STIFFENED STORAGE BINS

RECEIVED
MAR 11 2020

City of Chesterville Department of Planning



Safeguarding Your Grain® Since 1957

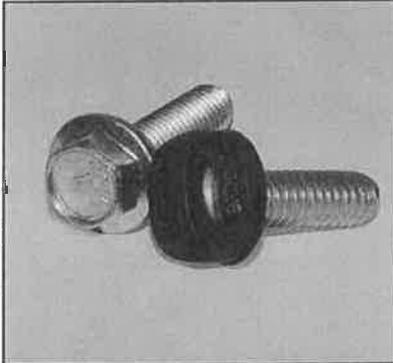
Protecting Your Investment

When months of hard work go into producing a grain crop, trust it to the best in non-stiffened storage bins: Brock.

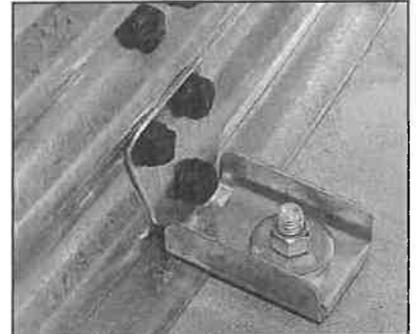
Brock Solid® is our guarantee of trusted reliability you can count on day in and day out. It's unmistakable quality, built to last year after year. And it's the same guarantee we founded the company on back in 1957.

Today, our dealers continue to uphold those standards, providing the superior service and support customers expect from Brock. Brock Solid means you can depend on them and us. Times may change, but our solid values are stronger than ever.

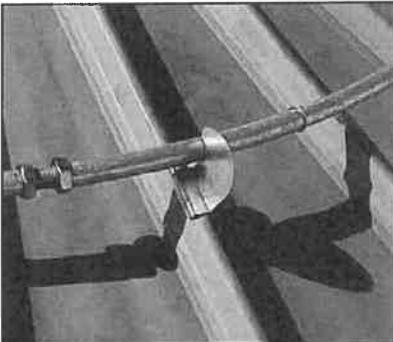
For growers storing their own grain, Brock's grain storage bins continue to be the first choice for safeguarding their crops. Brock Solid delivers. Always has, always will.



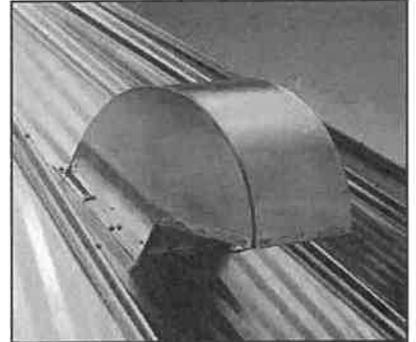
High Strength Bin Assembly Bolts are a Grade 8, with JS1000™ coating for superior weather- and corrosion-resistance. The JS1000 trademark is not owned or licensed by CTB.



Bin Anchor System helps create a strong, weather-tight connection to the foundation, protecting your investment from winds up to 90 mph (145 kph).



Roof Compression Rings provide additional structural support and another level of safety for those working on top of the bin.



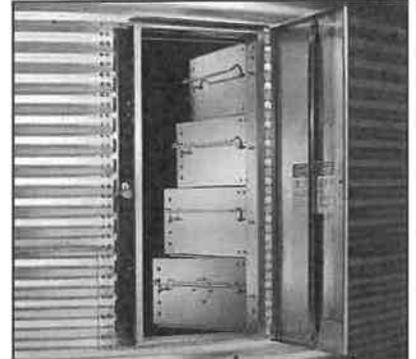
Gravity Roof Ventilators are available in both elbow and round mushroom styles to help ensure free air movement throughout the bin.



"High Rise" 3-Step Roof Rib paired with the innovative Eave Tension Straps provide unsurpassed durability and the highest peak load capacities available.

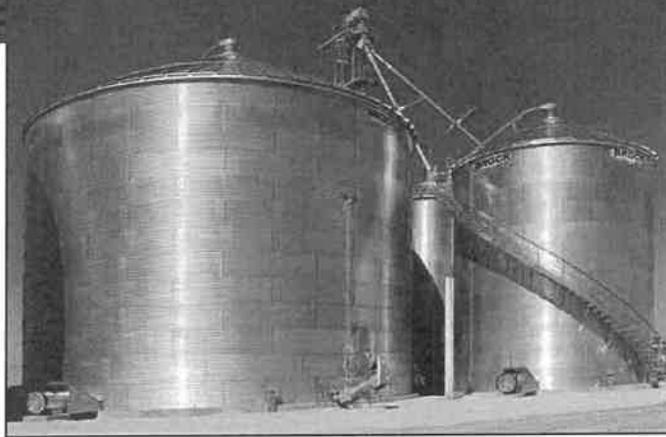


Unique Eave-Vent System raises the roof off the sidewalls to create ample ventilation around the entire circumference of the bin. The result is more air circulation while eliminating roof cuts, all at a lower cost than rooftop ventilation options.



LATCH-LOCK® Walk-Through Bin Entry Doors offer simple yet safe access, with a one-piece outer door and four interlocking inner panels that open in sequence from top to bottom with a lift of a latch.

Flat-Bottom Bins



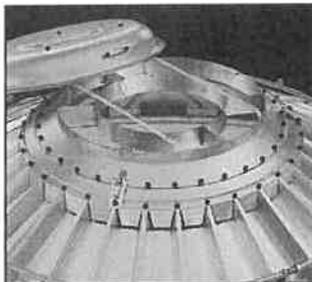
BROCK® Flat-Bottom On-Farm Storage Bins are built for longevity, providing dependable, secure containment season after season. Bins are available in a wide variety of diameters and eave heights to match virtually any need – with unique features that only come from years of grain storage experience.

Bin Diameters: 15-54 feet (4.6-11 m)

Capacity Range: 1,800-71,000 bushels (60-2,360 cubic meters)

Roof Systems: 3-panel ribbed or 4-panel ribbed

Roof Peak Capacity Range: 3,000-10,000 pounds (1,360-4,536 kg)

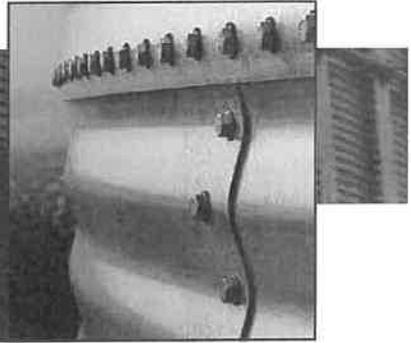


Ample 39-inch Fill Hole (991 mm) is reinforced with a rigid 24-inch (610-mm) diameter center ring for extra strength and to accommodate most auxiliary equipment.



Ob-round Manhole combines the strength of a round manhole design with the easier-to-enter/exit oblong shape. The cover features heavy hinges and a durable rotating latch.

Strong Sidewalls are constructed of G-90 galvanized steel and available with either narrow or wide corrugation to optimize structural integrity of the bin and maximize grain protection.



Hopper-Bottom Bins

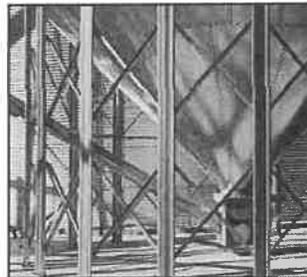
BROCK® Hopper-Bottom On-Farm Storage Bins are ideal for a wide range of temporary or transitional storage applications, such as wet holding, seed storage, blending, commodity containment, tempering after drying, or storage prior to loading a truck. Though intended primarily for shorter-term applications, these bins are flexible to handle your demands and to yield decades of reliable service.

Bin Diameters: 9-21 feet (2.7-6.4 m)

Capacity Range: 259-7,732 bushels (9-257 cubic meters)

Roof Systems: Ribbed or smooth roof styles

Roof Peak Capacity Range: 500-5,600 pounds (225-2,540 kg)

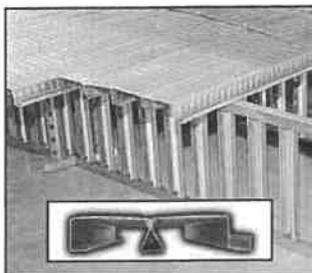


Sturdy "X" Bracing for between the bin legs is easy to assemble, provides extra bin strength and delivers easy access to the boot.



A Grain Bin-style Roof with a higher load rating is standard on larger diameter hopper bin models; an economical feed bin-style roof is standard for smaller models.

Bin Aeration Flooring



Brock's TRI-CORR® Bin Aeration Flooring System combines a unique triangle-shaped center leg with a corrugated flooring surface and PARTHENON® Support Legs to deliver remarkable load-bearing strength, longevity and even air distribution for simple bin clean-out.

Bin Sweeps

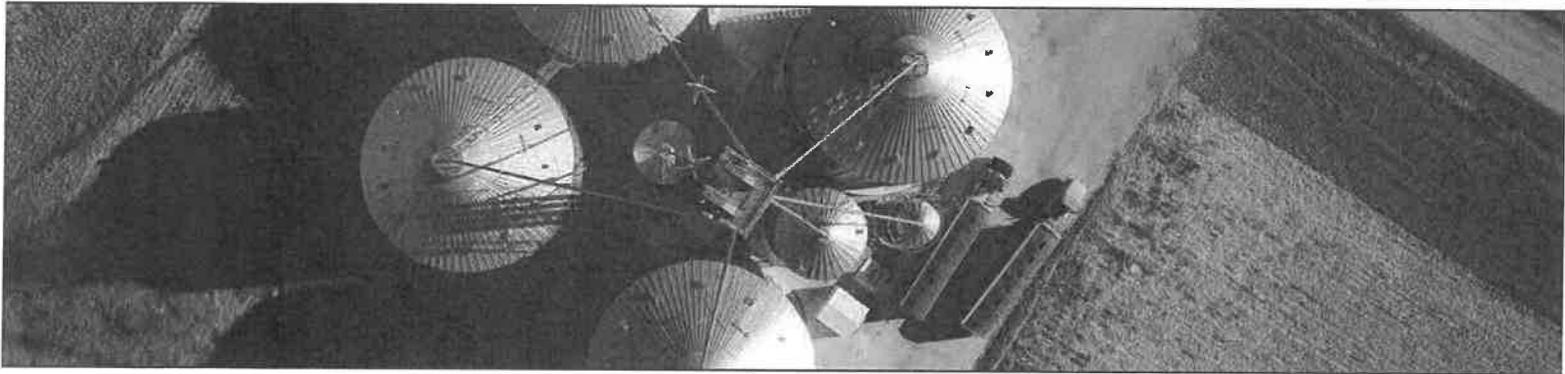


1000 Series Sweep – Intended for light to medium farm duty. For bin diameters: 15 to 60 feet (4.6 to 18.3 m). Auger diameters: 8, 10 or 12 inches (203, 254 or 305 mm). Capacities range up to 10,000 bushels (254 metric tons) per hour.



2000 Series Sweep – Engineered for heavy farm to light commercial duty. For bin diameters: 30 to 78 feet (9.1 to 23.8 m). Auger diameters: 10 or 12 inches (254 or 305 mm). Capacities range up to 6,500 bushels (165 metric tons) per hour.

A Full Line of Brock Solid® Solutions



Storage

- Stiffened & Non-stiffened Grain Bins
- Stiffened & Non-stiffened Hopper Bins
- Temporary Storage
- Bin Access Doors
- Grain Aeration Floors

Handling

- Grain Sweeps
- Grain Conveyors
- Bin Unloading Systems
- Bucket Elevators
- Distributors & Accessories

Conditioning

- Low-Profile Grain Dryers
- Tower Grain Dryers
- Centrifugal & Axial Fans
- Heaters
- Controls

Structures

- Catwalks
- Bucket Elevator Towers & Stairways
- EVERLOC® Roof Mount System
- Support Towers
- Slot & Tab Construction

For over 60 years, farmers have counted on Brock for reliable, quality grain storage. That focus on providing dependability has led to technological advances and expansion through the years, resulting in the full line of grain facility solutions that are available today.

Whether you're a farmer interested in a grain dryer or a commercial operator in need of grain storage equipment, you'll find the quality you've come to expect and the trusted integrity you deserve.



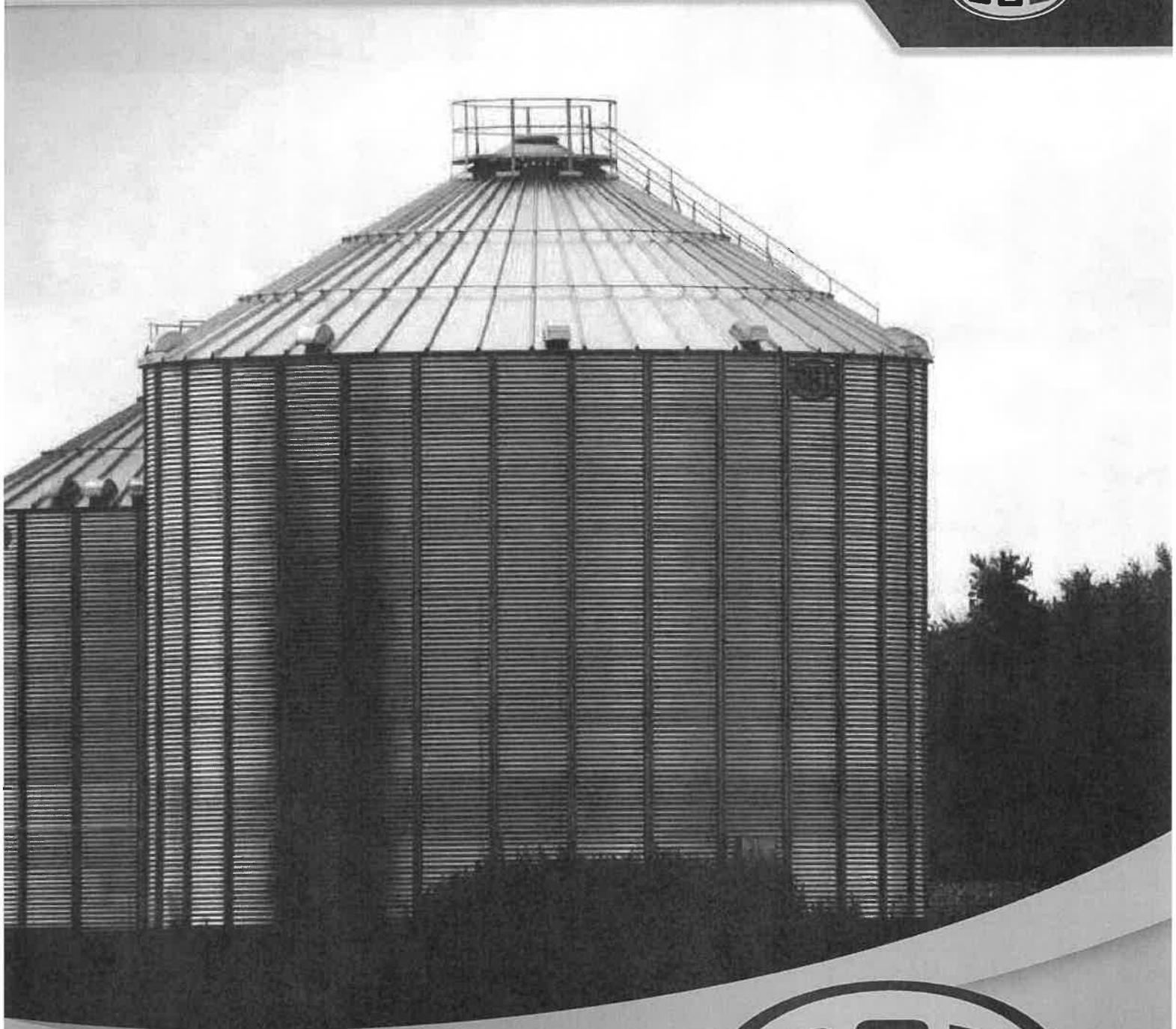
— BROCK SOLID® —
Safeguarding Your Grain® Since 1957

BROCK GRAIN SYSTEMS

A Division of CTB, Inc.
A Berkshire Hathaway Company
Phone: +1 574.658.4191
www.brockgrain.com
Email: sales@brockgrain.com

FOR THE PRODUCER

40-SERIES™ GRAIN BINS



PROVEN & DEPENDABLE™

WWW.GRAINSYSTEMS.COM

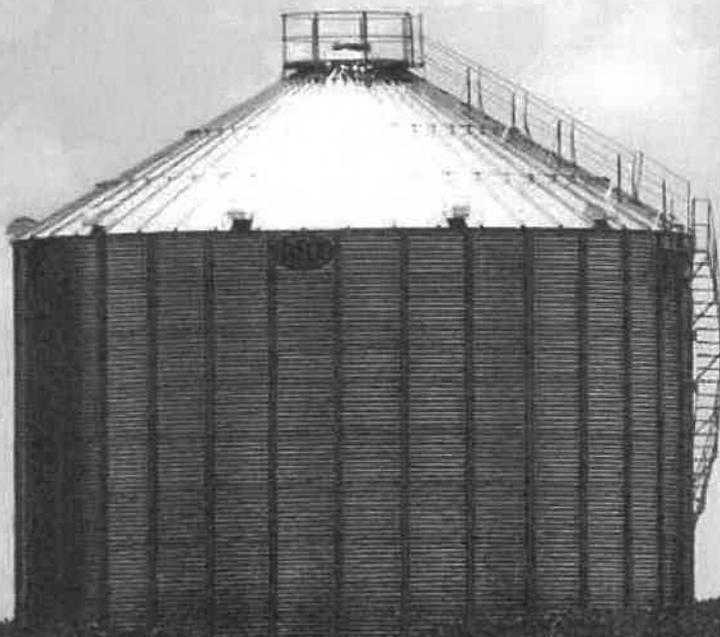
PROVEN & DEPENDABLE

The demands of farming are never ending. The risks are high. You need grain system solutions that maximize productivity and minimize downtime. We are driven to provide top-of-the-line products that will protect, condition and move the grain you work so hard to produce. And our network of dealers is committed to support you and your operation's growth every step of the way.

Our commitment and focus have resulted in GSI becoming the world's number one manufacturer of grain bins and a global leader in drying and material handling equipment. However, it is your dedication that inspires us to create the best grain systems possible.

Today's production requirements demand systems that excel in performance and are reliable year after year. In addition, easy installation, simple operation, durability, flexibility, and operation efficiency are all carefully considered in the design and construction of every GSI product manufactured.

THAT'S WHY GSI.



GSI PRODUCT LINEUP

40-SERIES GRAIN BINS

BUILD. EXPAND. EXPAND MORE.

No matter how high yields are, grain prices at harvest are no guarantee. Uncertain weather and market volatility increase the risk. Growers managing these factors and capitalizing on market opportunities depend on GSI for onsite grain storage that can grow and expand as needed.

When determining the best system for your operation, we know that what's protected inside the bin is what counts. Every product manufactured by GSI is designed with this in mind.

From the initial site analysis, to developing a grain storage plan, to final completion of the project, GSI's strong network of dealers is committed to supporting you and your operation's growth.

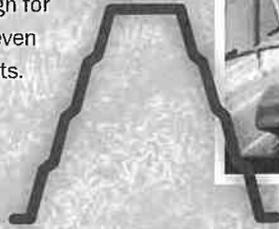
As your farm acreage and yields continue to grow, GSI grows with you. From 1,000 to 1.9 million bushel capacities, our full line of grain bins and accessories is customized to fit your needs and maximize your profitability.

	4002	4004	4024	4022	4032
	UNSTIFFENED BINS		STIFFENED BINS		
APPROXIMATE BUSHEL CAPACITY	1,600 to 62,000	1,700 to 61,000	1,000 to 282,900	7,200 to 122,000	15,000 to 1.9 million
STIFFENERS PER SIDEWALL SHEET	none	none	2	2	3
CORRUGATION	2.66"	4"	4"	2.66"	2.66"
DIAMETER	15' to 48'	15' to 48'	12' to 72'	18' to 60'	21' to 156'
NUMBER OF RINGS	4 to 15	3 to 10	3 to 21	12 to 26	12 to 40

FEATURES

ROOF PANELS

40-Series™ roof panels incorporate a 3" tall rib with over-and-under lap profiles ensuring a precise fit (see illustration), 3-bend rib profiles are also incorporated in the new design for increased strength to stand up even in the harshest environments.



HIGHER CAPACITY AND SUPERIOR PROTECTION

Each GSI bin is efficiently designed to handle maximum loads for unmatched strength.

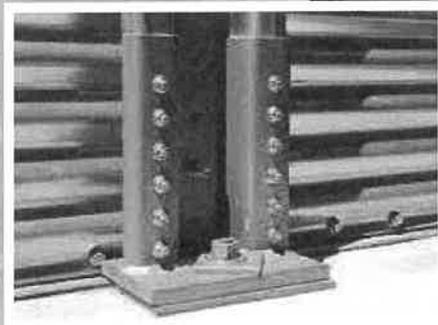
All GSI bins are constructed using the highest-strength steel available. Sidewall sheets are made from high-tensile steel that is rated up to 70,000 psi (450 MPa) minimum.

A commercial G-90, galvanized steel coating increases life and durability.



STIFFENERS

GSI's stiffener profiles and the use of up to 2-gauge material make bins stronger, allowing 40-Series bins to go taller without the extensive use of lamination. Improved stiffener profile design is manufactured on precision roll-forming equipment for superior quality. Base stiffener boots are powder-coated so they won't rust over time.

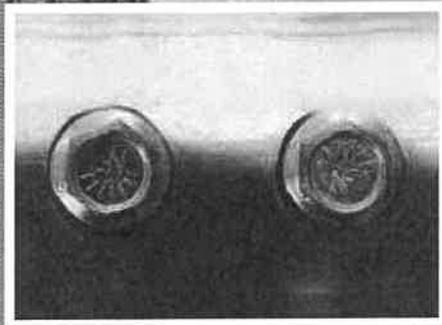


FEATURES



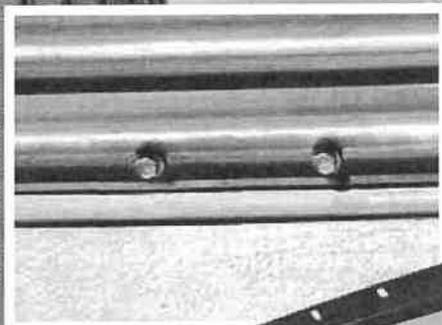
WIND RING

Redesigned wind ring and wind ring brackets reduce bolt holes in stiffeners, resulting in increased load capacity. Swaged, bolted splice ensure your 40-Series bins will stand up to the toughest wind conditions.



JS500 BOLTS

GSI uses JS500 bolts paired with sealing washers to protect the grain. JS500 coated hardware provides added protection from rust, promoting longer bin life.



BASE ANGLE

Rolled structural base angle prevents water from entering at the base of the bin for improved protection.

BIN ROOF

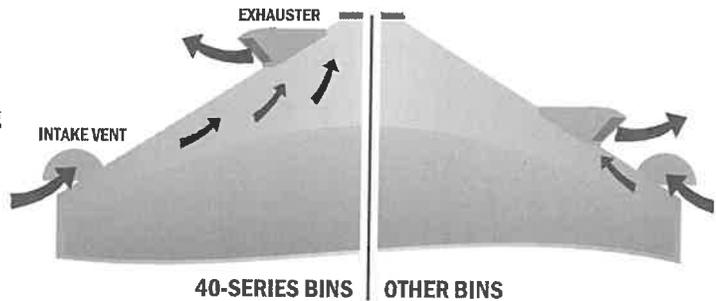
40-SERIES GRAIN BINS

Z-TEK™ ROOF SYSTEM

GSI's 40-Series™ line of grain storage bins feature the precision-engineered Z-Tek™ Roof System. Designed for increased load capacity, the system incorporates z-shaped rafters and purlins, clips, peak ring, flat top and roof panel for unsurpassed strength and protection.

GSI EXCLUSIVE ROOF EXHAUSTER MOUNTING LOCATION

Moving air in and out of the bin efficiently is essential. The 40-Series bin features new roof exhauster mounting plates near the peak for improved air flow by providing optimal separation of the intake vents and the exhausters. This allows for headspace air to be completely turned over and to minimize condensation on the bottom of the roof panels in colder climates.



ROOF VENTS

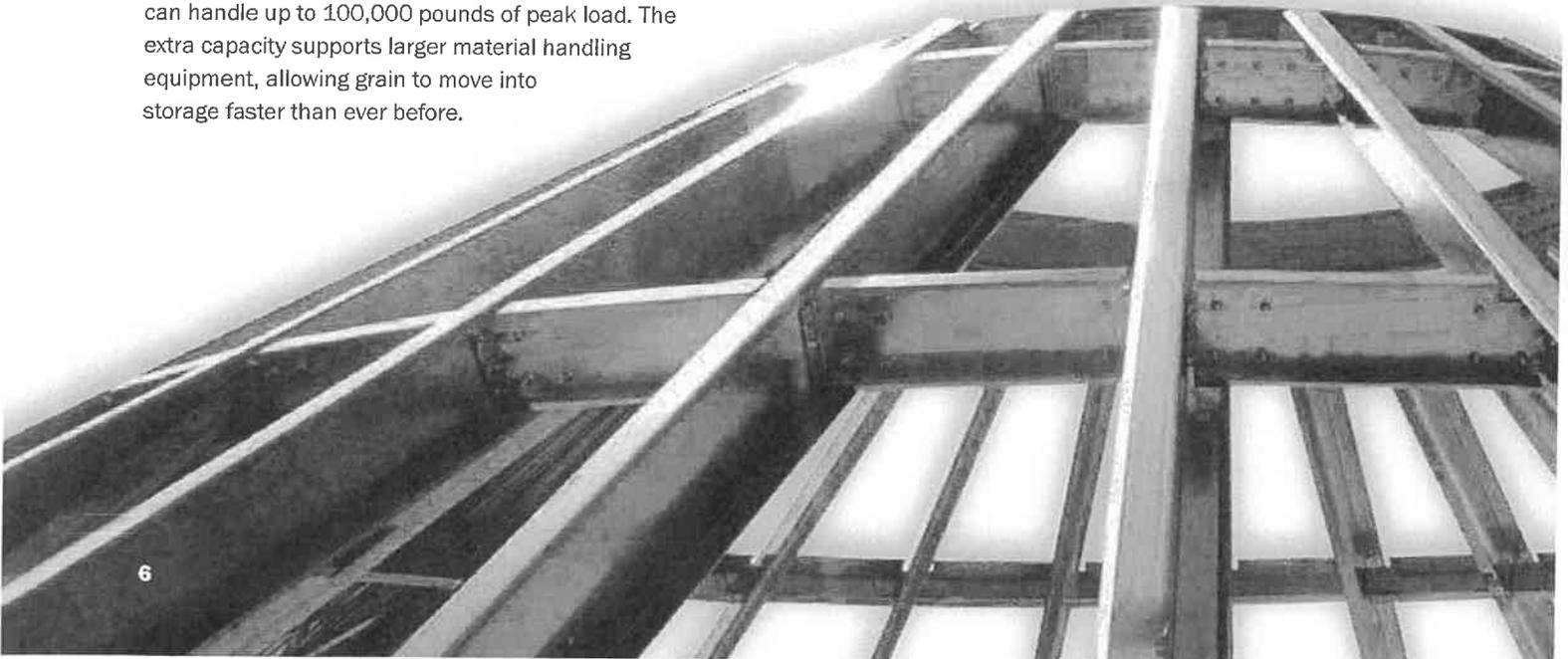
Redesigned roof vents promote increased airflow for improved performance. Vents feature a two-piece steel design with an optional cricket. Roof vents are available in grill vent and auto vent.

INCREASE SNOW LOAD CAPACITY

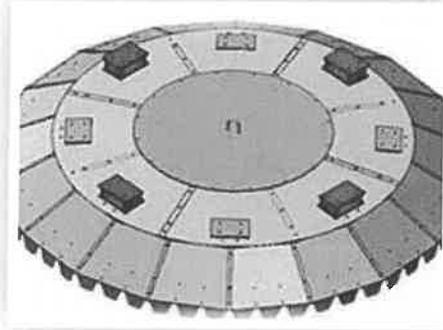
You can rest assured knowing that your grain is protected and dry from the elements in a GSI grain bin. GSI 40-Series bins can handle even the harshest of winter seasons with increased snow load capacity.

ADDED PEAK LOAD CAPACITY

The roll formed precision manufactured Z-Tek Roof System can handle up to 100,000 pounds of peak load. The extra capacity supports larger material handling equipment, allowing grain to move into storage faster than ever before.

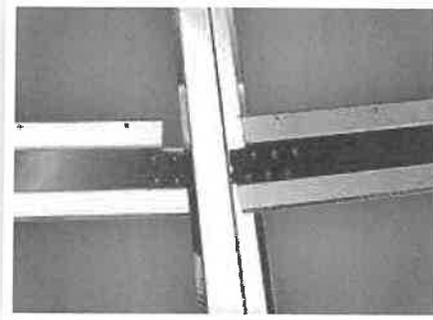


BIN ROOF



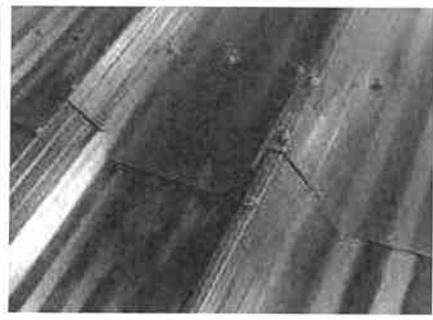
FLAT TOP

With the increasing speed of harvest, the size and capacities of material handling equipment continue to increase, leading to the need for larger flat tops on which to land equipment. Integrated attachment points within the flat top eliminate guesswork on where to attach material handling equipment for more accurate assembly. An optional integrated peak walk-around is available on bins larger than 54' diameter.



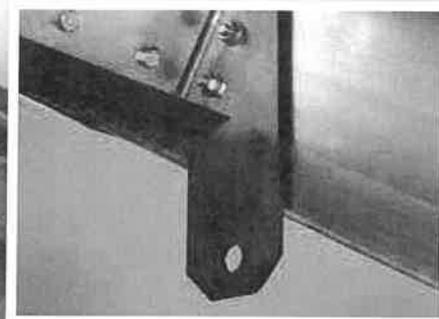
PURLINS

All purlins are designed as compression purlins for even distribution of the roof load. The Z-Tek Roof System delivers an increase in peak and snow load capacities as well as a simplified design for faster installation. GSI purlins are manufactured using the latest roll-form technology to ensure the most accurate fit possible.



ROOF SHEET OVERLAP

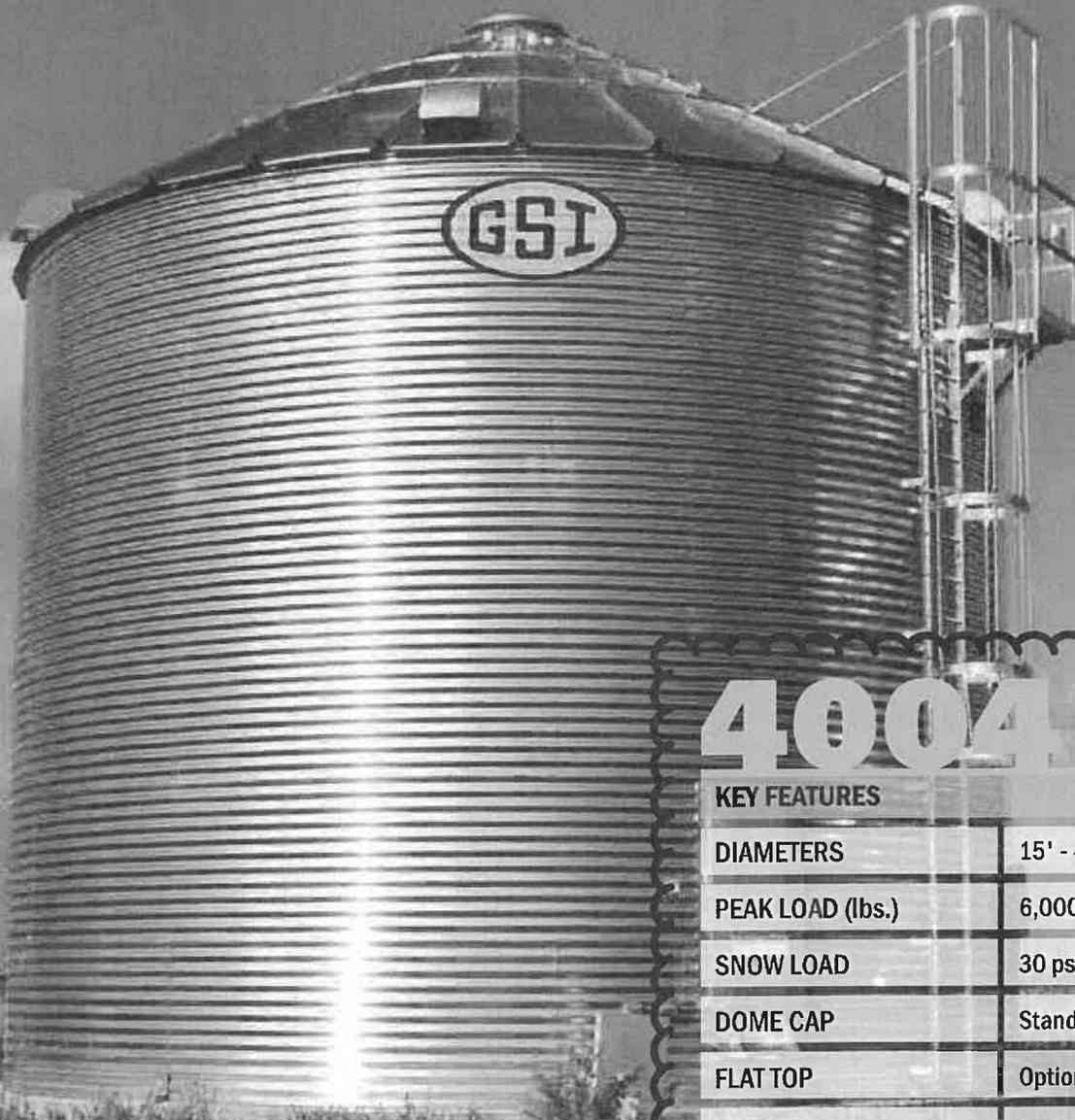
GSI's in-plane roof lap is designed to stop leaking by eliminating the flashing that is required between the upper and lower panels. Single sheet roofs are standard for all bins up to 78' diameter. From single-sheet roofs to an overlapped panel design, your crop is protected.



TEMPERATURE CABLE BRACKETS

GSI's Z-Tek Roof System temperature cable attachment brackets are standard for all bins 54' and larger. Temperature cables can be used on bins 48' and smaller with the optional addition of support brackets. The center collar includes an attachment point for the center cable so it's ready to expand with you when you choose.

UNSTIFFENED BINS - 4" CORRUGATION



4004

KEY FEATURES

DIAMETERS	15' - 48'
PEAK LOAD (lbs.)	6,000
SNOW LOAD	30 psf
DOME CAP	Standard
FLAT TOP	Optional
DOOR	2-Ring Door Standard
TEMP CABLE BRACKETS	Optional 24' - 48'

Popular with farmers across America, the 4004 is built on the legacy of the 4002 bin, with 4" wide corrugation, and is available in diameters ranging from 15' to 48' and 3 to 10 rings tall. Capacities range from 1,677 to 60,000 bushels.

4004 SPECIFICATIONS

40-SERIES GRAIN BINS

DIAMETER (FEET)	RING	MAXIMUM	EAVE	PEAK	CAPACITY	METRIC TONS	METRIC TONS	METRIC TONS	EAVE	PEAK	MAXIMUM
		CAPACITY (BUSHELS) 12" PLENUM									
15	3	1,698	11'1"	15'5"	2,168	52	47	42	3.38	4.69	61
	4	2,244	14'9"	19'1"	2,809	67	61	54	4.50	5.82	80
	5	2,791	18'5"	22'9"	3,450	83	75	66	5.61	6.95	98
	6	3,338	22'1"	26'5"	4,091	98	89	79	6.73	8.08	116
	7	3,883	25'9"	30'1"	4,732	114	102	91	7.85	9.21	134
18	3	2,502	11'1"	16'3"	3,188	77	69	61	3.38	4.95	90
	4	3,288	14'9"	19'11"	4,111	99	89	79	4.50	6.07	116
	5	4,075	18'5"	23'7"	5,034	121	109	97	5.61	7.19	143
	6	4,862	22'1"	27'3"	5,958	143	129	114	6.73	8.31	169
	7	5,648	25'9"	30'11"	6,881	165	149	132	7.85	9.43	195
	8	6,435	29'5"	34'7"	7,804	187	169	150	8.97	10.55	221
21	3	3,492	11'1"	17'1"	4,736	106	96	83	3.38	5.25	125
	4	4,553	14'9"	20'10"	5,686	137	123	109	4.50	6.35	161
	5	5,624	18'5"	24'6"	6,943	167	150	133	5.61	7.47	197
	6	6,695	22'1"	28'2"	8,200	197	177	158	6.73	8.59	232
	7	7,765	25'9"	31'10"	9,456	227	205	182	7.85	9.71	268
	8	8,836	29'5"	35'6"	10,713	257	232	206	8.97	10.83	303
24	3	4,649	11'1"	18'0"	5,904	142	128	113	3.38	5.48	167
	4	6,048	14'9"	21'8"	7,545	181	163	145	4.50	6.60	214
	5	7,446	18'5"	25'4"	9,187	221	199	176	5.61	7.72	260
	6	8,845	22'1"	29'0"	10,828	260	234	208	6.73	8.84	307
	7	10,244	25'9"	32'8"	12,469	299	270	240	7.85	9.96	353
	8	11,642	29'5"	36'4"	14,111	339	305	271	8.97	11.08	400
	9	13,041	33'1"	40'0"	15,752	378	341	303	10.08	12.20	446
27	3	6,012	11'1"	18'11"	7,622	183	165	146	3.38	5.66	216
	4	7,782	14'9"	22'7"	9,699	233	210	186	4.50	6.78	275
	5	9,552	18'5"	26'3"	11,777	283	255	226	5.61	7.90	333
	6	11,322	22'1"	29'11"	13,854	333	300	266	6.73	9.01	392
	7	13,092	25'9"	33'7"	15,931	383	345	306	7.85	10.14	451
	8	14,862	29'5"	37'3"	18,008	432	390	346	8.97	11.25	510
	9	16,632	33'1"	40'11"	20,086	482	435	386	10.08	12.37	569
30	4	9,765	14'9"	23'6"	12,160	292	263	234	4.50	7.16	344
	5	11,950	18'5"	27'2"	14,724	354	319	283	5.61	8.27	417
	6	14,135	22'1"	30'10"	17,289	415	374	332	6.73	9.38	490
	7	16,321	25'9"	34'6"	19,853	477	430	381	7.85	10.49	562
	8	18,506	29'5"	38'2"	22,418	538	485	431	8.97	11.60	635
	9	20,691	33'1"	41'10"	24,982	600	541	480	10.08	12.71	707
33	4	12,006	14'9"	24'4"	14,937	359	323	287	4.50	7.42	423
	5	14,651	18'5"	28'0"	18,040	433	390	347	5.61	8.55	511
	6	17,295	22'1"	31'8"	21,143	508	458	406	6.73	9.68	599
	7	19,939	25'9"	35'4"	24,246	582	525	466	7.85	10.81	687
	8	22,583	29'5"	39'0"	27,349	657	592	525	8.97	11.94	774
	9	25,227	33'1"	42'8"	30,452	731	659	585	10.08	13.07	862



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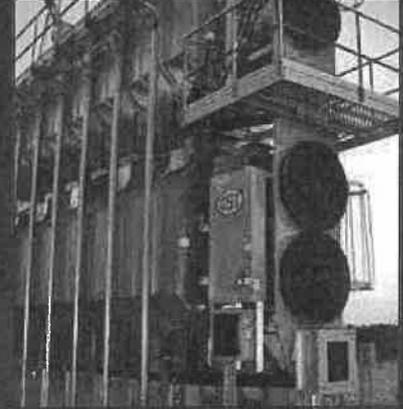
TOPDRY

Grain in the overhead chamber is dried by a large fan and heater then dumped to a holding area below. An aeration fan below captures heat from this previously dried grain, and pushes it upward to help dry the next load. This recycling of heat increases efficiency, which greatly reduces drying costs.



MATERIAL HANDLING

GSI's material handling line includes bucket elevators, chain conveyors, belt conveyors, bin unloads, and chain loops. Also available are towers, catwalks, and support structures.



DRYING AND CONDITIONING

Today's farm operations have greatly varied needs for their drying solutions. Size, type, and investment all play a part in the decision for which to use. GSI provides systems of every size and type to help with those needs. Options include TopDry, Portable, Modular, and T-Series Tower Dryers.



GLOBAL SOLUTIONS. LOCAL SUPPORT.

GSI and GSI Dealers alike share the same passion and commitment to our customers. GSI Dealers understand down time is not an option, construction schedules must be met. From site planning to installation and service, GSI Dealers are the proven partners for your operation. When you buy GSI, you get the quality product of a worldwide leader and the dependable service of your local Dealership.

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