

& Developme

Memorandum

Department of Planning & Development Services

To: Planning and Public Works Committee

From: Jessica Henry, Senior Planner

Date: July 19, 2018

RE: 18385 Chesterfield Airport Road, Lot A (Chesterfield Hockey

Association): A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 10.12 acre tract of land zoned "PC" Planned Commercial District located north of Chesterfield Airport Road and northeast of its intersection with Olive Street Road and northwest of its intersection with Wings of Hope

Boulevard.

Summary

Stock and Associates Consulting Engineers, Inc., on behalf of Chesterfield Hockey Association has submitted a request for an 84,144 square foot ice and multi-sport facility located on the north side of North Outer 40 Road and northeast of its intersection with Olive Street Road. The proposed facility will contain two ice rinks for local recreation as well as regional sporting events. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2974.

The project was reviewed by the Architectural Review Board (ARB) on June 14, 2018. A motion to forward the submittal to the Planning Commission with a recommendation for approval with the following conditions was passed by a vote of 3-0: Provide additional landscaping to soften the front façade of the building and provide traffic calming measures near the front drop off area. Both of the ARB conditions have been fulfilled by the applicant.

Planning Commission recommended approval of the request on July 9, 2018 by a vote of 9 – 0. Power of Review was called in accordance to Section 31-02-20 of the Unified Development Code.

Attached to this report please find a copy of the Planning Commission Staff Report, Site Development Section Plan, Landscape Plan, Lighting Plan, and the Architect's Statement of Design.

Attachments: Planning Commission Meeting Packet



Figure 1: Subject Site Aerial





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Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: July 9, 2018

From: Jessica Henry, AICP 1/16

Senior Planner

Location: North of Chesterfield Airport Road and northeast of its intersection with

Olive Street Road and northwest of its intersection with Wings of Hope

Boulevard.

Applicant: Chesterfield Hockey Association/ Stock and Associates Consulting Engineers, Inc.

Description: 18385 Chesterfield Airport Road, Lot A (Chesterfield Hockey Association): A Site

Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 10.12 acre tract of land zoned "PC" Planned Commercial District located north of Chesterfield Airport Road and northeast of its intersection with Olive Street Road and northwest of its

intersection with Wings of Hope Boulevard.

PROPOSAL SUMMARY

Stock and Associates Consulting Engineers, Inc., on behalf of Chesterfield Hockey Association has submitted a request for an 84,144 square foot ice and multi-sport facility located on the north side of North Outer 40 Road and northeast of its intersection with Olive Street Road. The proposed facility will contain two ice rinks for local recreation as well as regional sporting events. The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2974.

HISTORY OF SUBJECT SITE

The subject site was blanket zoned "M-3" Planned Industrial by St. Louis County in 1965 with no site specific ordinance or development plan filed for this property after this zoning designation. In October of 2017, the City Council approved Ordinance 2974 which changed the zoning of the subject property from an "M-3" Planned Industrial District to a "PC" Planned Commercial District. The subject site is currently vacant.



Figure 1: Aerial image (lots not drawn to scale/approximated)

LAND USE AND ZONING OF SURROUNDING PROPERTIES

The land use and zoning for the properties surrounding this parcel are described below:

North: The subject site is bordered by Interstate 64 to the north.

South: The Comfort Inn & Suites hotel is located to the south of Lot A of the subject site and is zoned "C-8" Planned Commercial District. The land directly south of the future development parcel is zoned "M-3" Planned Industrial District and is undeveloped.

East: The triangular parcel to the east is zoned "M-3" Planned Industrial District and is currently vacant. To the south of this parcel is a large, undeveloped tract that was zoned to "PC" Planned Commercial District in 2017.

West: The property directly to the west is zoned "M-3" Planned Industrial District and contains a concrete batching plant.

COMPREHENSIVE PLAN ANALYSIS

The subject site is located within Ward 4 of the City of Chesterfield and is within the Mixed Commercial Use land use designation per the City's Land Use Plan as seen in Figure 2 on the next page. The Comprehensive Plan defines Mixed Commercial Use as an area where "Appropriate uses in this designation would be retail and office".

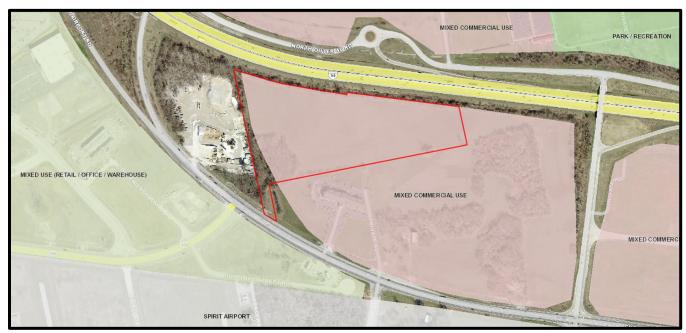


Figure 2: Future Land Use Plan

The Comprehensive Plan includes Commercial Development Policies as well as specific policies which are applicable to developments within the Chesterfield Valley sub-area.

Commercial Development Policies

- 3.1.1 Quality of Design—Overall design standards should be provided for smaller-scale, mixeduse, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.
- 3.1 Quality Commercial Development—The intent of this policy is to ensure developments
 positively reflect the image of the City of Chesterfield, provide employment opportunities and offer
 retail and service options to residents.
- **7.2.6 Cross-Access Circulation**—Cross-access is encouraged for both vehicular and pedestrian connections in all new developments.

Chesterfield Valley Sub-Area and Chesterfield Valley Design Policies

The City of Chesterfield's Comprehensive Plan has a specific Chesterfield Valley Policies Element. The policies include commercial development with particular concern over the image presented by development along I-64. There are six specific policies of which four are applicable to the design of this project. Staff outlines the applicable policies below and how the Site Development Section Plan relates to those policies.

• Façades of Buildings Along I-64/US 40—Care should be taken to make sure that any portion of a building that can be viewed from I-64/US 40 or any arterial and collector roadways should convey the image of a high-quality office or commercial development and should be equally uniform in materials and attractiveness as the primary façade of the building if it does not face I-64/US 40 or the roadways. The intent is to avoid projects having their view from I-64/US 40 or the roadways appear to be the rear or side of a development.

As shown on the Architectural Elevations, the proposed building features a four-sided design.

 Lighting of Buildings along I-64/US 40—The façades of buildings facing I-64/US 40 should be lighted to provide an attractive image at night for individuals traveling along I-64/US 40. Accent lighting, as opposed to flood lighting should be used.

There are three building mounted utilitarian light fixtures located along the northern building façade situated parallel to I-64/US 40.

• Automobile Parking for Buildings along I-64/US 40—Parking should be primarily located to the side or rear of any building façade facing I-64/US 40 or along North Outer 40.

Given the building's north/south orientation, the majority of the parking is located in front of the building in the eastern portion of the site. A small amount of parking and one bus parking space is located between the northern façade of the building and I-64/US 40.

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.

In addition to sidewalks along the site's frontage, a crosswalk is provided on the future Olive Street Road extension, and a crosswalk is provided to allow a clear pedestrian path to the hotel to the south.

STAFF ANALYSIS

The subject site is zoned "PC" Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2974. The submittal was reviewed against the requirements of City of Chesterfield Ordinance 2974 and all applicable requirements of the Unified Development Code and the proposed development adheres to the applicable requirements.

<u>Circulation System and Access</u>

The subject site will be ultimately be served from the future Olive Street Road extension, which upon completion will extend between Chesterfield Airport Road and Spirit of St. Louis Boulevard. In conjunction with development of the ice sports facility, the three lane section of the Olive Street Road extension that is located along the southern portion of Lot A will be constructed. Two curb cuts from this portion of the Olive Street Road extension will provide direct access to Lot A.

Until such time as the extension is connected to either Chesterfield Airport Road or Spirit of St. Louis Boulevard, access to the development will be from an existing private drive off of Chesterfield Airport Road. This is not a signalized intersection, and the Traffic Impact Study indicated that while there will be a delay for vehicles exiting the facility following a sporting event, no delay on Chesterfield Airport Road or negative impact to a public roadway is predicted to occur. However, an updated Traffic Impact Study will be required in conjunction with any expansion of the ice sports complex or future development on Lot C. This will allow the City, St. Louis County, and MoDOT to reevaluate traffic conditions, impacts to the surrounding roadway network, and any necessary roadway improvements prior to approving any further development. St. Louis County and MoDOT have both reviewed and accepted the Traffic Impact Study for the development currently proposed on Lot A.

Cross access easements are provided for future development of the remaining portion of the development to the east as well as to the vacant land to the west of the subject site, as shown in the image below.



Figure 3: Color Site Development Section Plan excerpt

Open Space

The minimum required open space for this development per Ordinance 2974 is 35%. The proposed Chesterfield Ice Sports Complex provides 44% open space.

Landscape Design and Screening

Several different areas of landscaping are proposed in accordance with City Code requirements, including parking lot landscaping, a 30 foot landscape buffer, and street trees along the site's frontage. The 30 foot landscape buffer provided along the proposed Olive Street Road extension will be planted with a mix of canopy, ornamental, and evergreen trees. The landscape design provides an additional mix of canopy trees, ornamental trees, evergreen trees, deciduous shrubs and flowering plants to ensure for seasonal color and texture.

Given the substantial amount of right-of-way dedication required to construct the Olive Street Extension and the size and location of the building on the site, the applicant is unable to preserve the existing tree canopy. In accordance with the UDC, mitigation is required and the applicant has indicated that the required mitigation will be accomplished in full through a contribution to the City's Tree Preservation Account. Funds placed in this account are utilized to plant trees on public property throughout the City.

Rooftop mechanical equipment is included on the building, and it will be screened by a perforated architectural metal panel. A trash enclosure to screen trash receptacles from public view is planned for this proposed construction. The enclosure will be constructed of concrete tilt-up panel with brick inlaid on the exterior side to match the building.

Finally, a space is provided for public art at the entrance to the site.

Lighting

Lighting is planned in association with the proposed development as required by the City of Chesterfield. The proposed lighting plan primarily consists of utilitarian lighting, including parking and street light fixtures and wall-mounted light fixtures. Additionally, bollard light fixtures are proposed at the front entrance to the building and these serve to enhance the pedestrian-scale nature of the entry.

Architectural Elevations

The main envelope structure of the building is an insulated tilt-up concrete panel, along with an R-30 insulated roof for maximum energy efficiency. The building includes a four-sided design with similar materials and treatments on each façade, as required by the Chesterfield Valley Design Requirements. Facing east, the front façade consists of an architectural metal panel canopy system to accentuate and protect the entry area. This is surrounded by scored and painted exposed concrete tilt-up panels. The storefront system will be a dark anodized aluminum with clear tinted Low-e glass. The brick shown on the front elevation is a thin brick that will be poured in place into the concrete panels.

Facing north and south, the side façades will also consist of the tilt up concrete panels with thin brick and painted tilt up panels with horizontal decorative recessed reveals to split up the panel. The rear façade facing west consists of the same material as the other three sides and contains the step-down portion of the building, where the ammonia equipment room will be located. The condenser for the ammonia system will be located on top of the ammonia equipment room. The condenser will be screened by a perforated architectural metal panel, similar to the architectural metal panel that will screen the HVAC units on the roof of the facility.



Figure 4: Proposed rendering view with perforated metal panel screening shown.

The project was reviewed by the Architectural Review Board (ARB) on June 14, 2018. A motion to forward the submittal to the Planning Commission with a recommendation for approval with the conditions listed below was passed by a vote of 3-0. Information regarding the applicant's response to each recommendation follows in italicized text.

1. Provide additional landscaping to soften the front façade of the building.

The applicant has revised the Landscape Plan to reflect this recommendation.

2. Provide traffic calming measures near the front drop off area.

The applicant has revised the Site Development Section Plan to provide stamped concrete in the portion of the drive lane that is located in front of the main entrance.

DEPARTMENT INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design 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 this request.

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 18385 Chesterfield Airport Road, Lot A (Chesterfield Hockey Association).
- 2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for 18385 Chesterfield Airport Road, Lot A (Chesterfield Hockey Association) with the following conditions..." (Conditions may be added, eliminated, altered or modified)

cc: Justin Wyse, Director of Planning and Development Services

Attachments: Site Development Section Plan

Landscape Plan Lighting Plan

Architect's Statement of Design

Architectural Elevations
Lighting Cut Sheets





Architectural Statement of Design

Chesterfield SportsComplex Chesterfield, Missouri

Project Overview:

Our goal is to create the premier hockey destination in Missouri and in the Midwest, located adjacent to the Premium Outlet Mall, on approximately 12 acres of land between Chesterfield Airport Road and US 64/40. Our proposed facility's design and its location will eventually combine retail, entertainment and sports. The new facility differentiates itself from others in the St. Louis area, many of which are older and in need of renovation.

The Chesterfield SportsComplex, a state-of-the-art ice and multi-sport facility, is being developed in the Chesterfield Valley to replace the Hardees IcePlex, which was recently sold and demolished to make way for the new Top Golf facility. The complex will provide much needed ice time and recreational facilities for St. Louis youth and adults. It will attract local and regional sporting events and tournaments, generating jobs and tourism dollars for local businesses and also help St. Louis maintain and build upon its reputation as a first-tier hockey and sports town. The new complex is a public-private partnership and will be owned and operated by the Chesterfield Hockey Association, a non-profit organization.

Statement of Design:

Building:

The scale of our facility is conducive to functioning as an ice rink There are certain interior clear height restrictions that need to be met for the game of hockey; as well as no windows in the ice portion due to natural light affecting the ice and the game in a negative way. This building is a perfect example for form following function.

Adjacent to our site, to the west, is a concrete plant, to the south is an outdated three-story hotel. To the east of our building is all undeveloped green space. There is nothing around our building with which to correlate design.

Design:

The main envelope structure of the building is a 14" insulated tilt-up concrete panel (R- value 13), along with an R-30 insulated roof, for maximum energy efficiency. Facing east, the front facade consists of an architectural metal panel canopy system to both accentuate and protect the entry area. This is surrounded by scored and painted exposed concrete tilt-up panels. The storefront system will be a very dark anodized aluminum (black) with clear tinted Low-e glass. The horizontal detail between the first and second story storefront will be recessed reveals in the concrete panel created by a form-liner. The brick shown on the front elevation is a thin brick that will be poured in place into the concrete panels.

The two side elevations (facing north & south) will consist of the tilt up concrete panels with thin brick poured in place and painted tilt up panels with horizontal decorative recessed reveals to split up the



panel. The back (west elevation) consists of the same material as the other three sides and contains the step-down portion of the building. This is where the ammonia equipment room will be located. On top of the ammonia equipment room will the condenser for the ammonia system. The condenser will be screened by a perforated architectural metal panel; this is the same architectural metal panel which will screen the HVAC units on the roof of the facility.

Landscape:

The landscaping has been planned in association with the proposed development as required by the City of Chesterfield. A 30' landscape buffer is provided along I-64 and Olive Street Road Extension and is planted with a mix of canopy, ornamental and evergreen trees. Additionally, a mix of canopy, ornamental trees, evergreen and deciduous shrubs and flowering plants have been provided on site to ensure seasonal color and interest. The islands in the parking lot serve as bioretention and will be planted with native grasses and forbes to meet MSD requirements.

Michael Chiodini

Chiodini Architects

Programming | Planning | Architecture | Interiors | Graphics



SOLID STATE BOLLARDS

BRA SERIES-LED

SPECIFICATIONS

BOLLARD

Durable corrasion resistant extruded and cast aluminum construction, ¼" wall thickness.

LED POWER ARRAY™

Three-dimensional array consisting of 6 individual LED tubes for the BDA8 model and 4 individual LED tubes for the BDA6 model, which are fastened to a retaining plate equally spaced to provide 360° of even illumination output. Each LED tube consists of a circuit board populated with a multiple of LED's which is fostened to a radial aluminum heat sink. A white polycarbonate lens and end caps protect each LED tube's internal components and provides diffusion to prevent shadowing and striations.

INTERNAL LOUVER (IL) - A specular louver stack conceals the inner LED Power Array Module and provides uplight and glare control through the external clear polycarbonate lens.

CAST LOUVER (CL) - External cast aluminum louver stack protects the internal LED Power Array Module and provides uplight and glare control. An internal clear polycarbonate lens is integrated with the LED Power Array Module.

OPAL LENS (WP) - Exterior white polycarbonate lens protects the internal LED Power Array Module and provides a uniform white glow.

RADIAL LED MODULE

LED'S are mounted to a circular heatsink in a radial array. The radiol LED module is concealed in the cap of the bollard. LED's are not directly visible from angles above 90°.

PARABOLIC REFLECTOR (TR) - A specular Parabolic Reflector reflects a portion of the distribution from the radial LED module and provides a uniform wide angle throw through the outer clear polycarbonate lens.

LED EMITTERS

High Output LED's are driven at 350mA for nominol 1 Watt output each. 70CRI Minimum. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

LED DRIVER

UL and CUL recognized Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60hz. Consult Factory for (347-480VAC). Driver is mechanically fastened to a retaining brocket. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimmable and High-Low Driver options available.

FINISH

Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

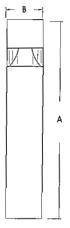
PROJECT NAME: Chesterfield Sports Complex

FIXTURE TYPE:



BRAS SHOWN WITH-TR OPTICS

PATENT PENDING





| BOLLARD | A | В | С | D |
|---------|--------|-------|-------|-------|
| BRA8 | 42* | 8" | 6° | 8" |
| | 1067mm | 203mm | 152mm | 203mm |
| BRA6 | 42" | 6" | 4° | 6* |
| | 1067mm | 152mm | 102mm | 152mm |

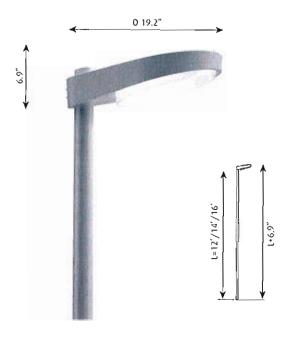




2015239



louis poulsen



LP CAPSULE

Design:

Carsten Fischer/Henning Larsen

Concept:

The fixture emits light directed mainly downwards. The fixture has an upward tilt with a compact profile. Variants include 3000K and 4000K options as well as high and low output options.

Finish:

Natural painted aluminum, powder coated.

Material:

Housing: die-cast aluminum. Top and bottom covers: UV-stabilized acrylic.

Mounting

Post top: Mounted directly on top of either dual round aluminum (DRA-5"-3") or Taper-5"-2.4" poles, or onto a round straight aluminum (RSA-4.5") pole with provided tenon.

Weight:

Min: 18 lbs. Max: 18 lbs.

Compliance:

cULus, Wet location.

PRODUCT OVERVIEW

| Product Code | Light source | Voltage | Flaish | Distribution/Trim | Transition to pole | Features | ltem number |
|--------------|---------------|---------------|---------------|-------------------------|--------------------|-----------|-------------|
| LP CAPSULE | 20W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | TS | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919352 |
| LP CAPSULE | 20W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | TS | RSA/TAPER | DIM 0-10V | 5747919365 |
| LP CAPSULE | 20W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919433 |
| LP CAPSULE | 20W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | RSA/TAPER | DIM 0-10V | 5747919446 |
| LP CAPSULE | 20W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | T5 | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919394 |
| LP CAPSULE | 20W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | TS | RSA/TAPER | DIM 0-10V | 5747919404 |
| LP CAPSULE | 20W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919475 |
| LP CAPSULE | 20W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | RSA/TAPER | DIM 0-10V | 5747919488 |
| LP CAPSULE | 40W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | T5 | T-DRA-S IN-3 IN | DIM 0-10V | 5747919378 |
| LP CAPSULE | 40W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | T5 | RSA/TAPER | DIM 0-10V | 5747919381 |
| LP CAPSULE | 40W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919459 |
| LP CAPSULE | 40W LED/3000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | RSA/TAPER | DIM 0-10V | 5747919462 |
| LP CAPSULE | 40W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | (15) | (T-DRA-5 IN-3 IN | DIM 0-10V | 5747919417 |
| LP CAPSULE | 40W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | TS 1 | RSA/TAPE R | DIM 0-10V | 5747919420 |
| LP CAPSULE | 40W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | Т3 | T-DRA-5 IN-3 IN | DIM 0-10V | 5747919491 |
| LP CAPSULE | 40W LED/4000K | 120-277V/60HZ | NAT PAINT ALU | тз / | RSA/TAPER | DIM 0-10V | 5747919501 |
| | | | | Pole Type to determined | be | | |

McGraw-Edison

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 # | | Туре |
|-------------|-----------------------------|------------|
| Project | Chesterfield Sports Complex | S1 thru S5 |
| Comments | | Date |
| Prepared by | | |

SPECIFICATION FEATURES

Construction

Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, diecast 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. AecuLED 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 trav 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.

Hainiah

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.

DRILLING PATTERN

[51mm]

1-3/4

(44mm)

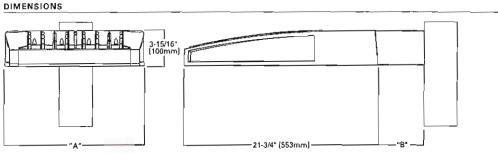
TYPE "N"



GLEON GALLEON LED

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE



DIMENSION DATA

| Number of Light Squares | "A" Width | "B" Standard Arm Length | "B" Optional Ann 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) | | 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 esteulated

Powering Business Worldwide



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)



(2) 9/16" (14mm)

Diameter Holes

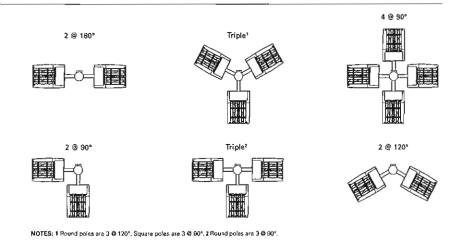
3/4" [19mm]

Hole

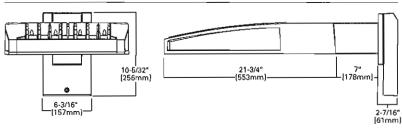
-7/8" (22mm)

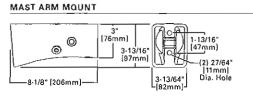
ARM MOUNTING REQUIREMENTS

| Configuration | 90° Apart | 120° Apart |
|---------------|----------------------------------|--------------------------------|
| GLEON-AF-01 | 7" Arm (Slandard) | 7" Arm (Standard) |
| GLEON-AF-02 | 7 ⁴ 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) |

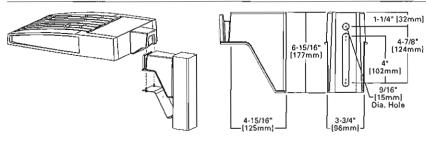


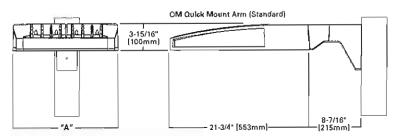
STANDARD WALL MOUNT

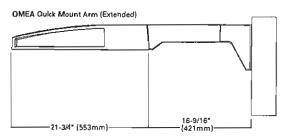




QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)







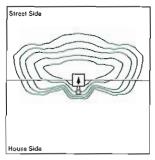
QUICK MOUNT ARM DATA

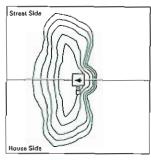
| Number of Light Squares 5,2 | "A" Width | Weight with QM Arm (ibs.) | Weight with QMEA Arm (lbs.) | EPA (Sq. ft.) |
|--------------------------------|-----------------|------------------------------|--------------------------------|------------------|
| 1-4 | 15-1/2" (394mm) | 35 (15.91 kgs.) | 38 (17.27 kgs.) | |
| S-6 ³ | 21-5/8" (549mm) | 46 (20.91 kgs.) | 49 (22.27 kgs.) | 1.11 |
| 7-8 | 27-5/8" (702mm) | 58 (25.45 kgs.) | 59 (26.82 kgs.) | |

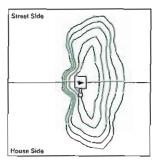
NOTES: 1 OM option available with 1-8 light square configurations. 2 OMEA option available with 1-6 light square configurations. 3 OMEA arm to be used when mounting two fixtures at 90° on a single pole.



OPTIC ORIENTATION



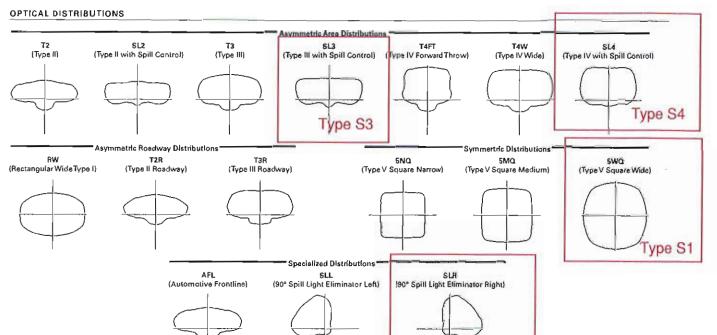




Standard

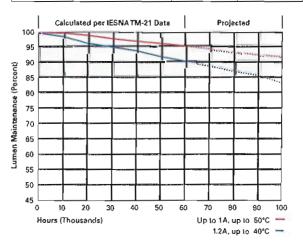
Optics Rotated Left @ 90° [L90]

Optics Rotated Right @ 90° (R90)



LUMEN MAINTENANCE

| Drive Current | Amblent 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°G | > 90% | 205,000 | | |



LUMEN MULTIPLIER

| Amblent Temperature | Lumen Multiplier |
|------------------------|------------------|
| 0°C | 1.02 |
| 10°C | 1.01 |
| 25°C | 1.00 |
| 40°C | 0.99 |
| 50°C | 0.97 |

Type S5



| | E I OIVEN TOMENO (| | | | | | | | | | |
|---------------|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Number | of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Nominal f | Power (Watts) | 67 | 129 | 191 | 258 | 320 | 382 | 448 | 511 | 575 | 840 |
| Input Curi | rent @ 120V (A) | 0.58 | 1.16 | 1.78 | 2.31 | 2.94 | 3.56 | 4.09 | 4.71 | 5.34 | 5.87 |
| Input Cor | rent @ 208V (A) | 0.33 | 0.83 | 0.93 | 1.27 | 1.57 | 1.87 | 2.22 | 2.52 | 2.8 | 3.14 |
| Input Curi | rent @ 240V (A) | 0.29 | 0.55 | 0.80 | 1.10 | 1.35 | 1,61 | 1.93 | 2.18 | 2.41 | 2.71 |
| Input Cur | rent @ 277V (A) | 0.25 | 0.48 | 0.70 | 0.96 | 1.18 | 1.39 | 1.69 | 1.90 | 2.09 | 2.36 |
| Input Curi | rent @ 347V (A) | 0.20 | 0.39 | 0.57 | 0.78 | 0.96 | 1.15 | 1.36 | 1.54 | 1.72 | 1.92 |
| Input Cur | rent @ 480V (A) | 0.15 | 0.30 | 0.43 | 0.60 | 0.73 | 0.85 | 1.03 | 1.16 | 1.28 | 1.45 |
| Optics | | | | | | | | | | | |
| | 4000K/5000K Lumens | 6,709 | 13,111 | 19,562 | 25,848 | 32,026 | 38,325 | 45,324 | 51,385 | 57,286 | 63,424 |
| T2 | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,881 | 28,349 | 33,925 | 40,121 | 45,459 | 50,710 | 56,143 |
| | 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 |
| | 4000K/5000K Lumens | 7,122 | 13,919 | 20,769 | 27,442 | 34,000 | 40,687 | 48,117 | 54,519 | 60,816 | 67,333 |
| T2R | 3000K Lumens | 5,939 | 11,606 | 17,316 | 22,981 | 28,349 | 33,925 | 40,121 | 45,459 | 50,710 | 56,143 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | 83-U0-G5 | B3-U0-G5 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,838 | 13,363 | 19,939 | 26,346 | 32,642 | 39,062 | 46,196 | 52,343 | 58,399 | 64,646 |
| T 3 | 3000K Lumens | 6,053 | 11,829 | 17,650 | 23,321 | 28,895 | 34,678 | 40,893 | 46,334 | 51,685 | 57,225 |
| | BUG Rating | B1-U0-G2 | 82-U0-G2 | 83-U0-G3 | B3-U0-G4 | 83-U0-G4 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,990 | 13,660 | 20,382 | 26,931 | 33,368 | 39,930 | 47,223 | 53,506 | 59,686 | 66,081 |
| T3R | 3000K Lumens | 6,188 | 12,092 | 18,042 | 23,839 | 29,537 | 35,346 | 41,802 | 47,364 | 52,834 | 58,495 |
| | 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 |
| | 4000K/5000K Lumens | 6,878 | 13,440 | 20,055 | 26,489 | 32,832 | 39,289 | 46,464 | 52,646 | 58,726 | 65,020 |
| T4FT | 3000K Lumens | 6,088 | 11,897 | 17,753 | 23,457 | 29,063 | 34,779 | 41,130 | 46,602 | 51,984 | 57,656 |
| | BUG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,789 | 13,267 | 19,795 | 26,156 | 32,408 | 38,781 | 45,864 | 51,967 | 57,968 | 64,180 |
| T4W | 3000K Lumens | 6,010 | 11,744 | 17,523 | 23,153 | 28,688 | 34,329 | 40,599 | 46,001 | 51,313 | 56,812 |
| | BUG Rating | 81-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 |
| | 4000K/6000K Lumens | 6,697 | 13,088 | 19,529 | 25,804 | 31,870 | 39,259 | 45,245 | 51,267 | 57,186 | 63,315 |
| SL2 | 3000K Lumens | 5,928 | 11,585 | 17,287 | 22,842 | 28,300 | 33,867 | 40,051 | 45,382 | 50,621 | 56,046 |
| | BUG Rating | 81-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 |
| | 4000K/5000K Lumens | 6,837 | 13,361 | 19,936 | 26,342 | 32,639 | 39,057 | 46,189 | 52,336 | 58,380 | 64,636 |
| SL3 | 3000K Lumens | 6,052 | 11,827 | 17,647 | 23,318 | 28,892 | 34,573 | 40,887 | 46,328 | 51,678 | 57,216 |
| | 8UG Rating | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | 83-U0-G5 | B3-U0-G5 | 84-U0-G5 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,496 | 12,695 | 18,943 | 25,029 | 31,011 | 37,110 | 43,886 | 49,727 | 55,470 | 61,414 |
| SL4 | 3000K Lumens | 5,750 | 11,238 | 18,768 | 22,156 | 27,451 | 32,850 | 38,848 | 44,018 | 49,102 | 54,364 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | 82-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 7,052 | 13,781 | 20,564 | 27,171 | 33,664 | 40,285 | 47,641 | 53,981 | 60,215 | 66,668 |
| 5NQ | 3000K Lumens | 6,242 | 12,189 | 18,203 | 24,052 | 29,799 | 35,660 | 42,172 | 47,784 | 53,302 | 58,015 |
| | 8UG Rating | B3-U0-G1 | B3-U0-G2 | 84-U0-G2 | B4-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | 85-U0-G4 | B5-U0-G4 |
| | 4000K/5000K Lumens | 7,182 | 14,034 | 20,942 | 27,871 | 34,284 | 41,027 | 48,518 | 54,875 | 61,323 | 67,896 |
| 5MQ | 3000K Lumens | 6,358 | 12,423 | 18,538 | 24,494 | 30,348 | 36,317 | 42,948 | 48,664 | 54,283 | 60,102 |
| • | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | 85-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 | B5-U0-G5 |
| | 4000K/5000K Lumens | 7,201 | 14,073 | 20,988 | 27,744 | 34,375 | 41,136 | 48,648 | 55,121 | 61,487 | 68,077 |
| 5WQ | 3000K Lumens | 6,374 | 12,457 | 18,587 | 24,659 | 30,429 | 36,414 | 43,063 | 48,793 | 54,428 | 60,262 |
| - | BUG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | 85-U0-G4 | B5-U0-G5 | 85-U0-G5 | B5-U0-G5 | 85-U0-G5 |
| | 4000K/5000K Lumens | 6,009 | 11,741 | 17,519 | 23,148 | 28,681 | 34,321 | 40,589 | 45,990 | 51,301 | 56,798 |
| SLL/SLR | 3000K Lumens | 5,319 | 10,393 | 15,508 | 20,491 | 25,388 | 30,381 | 35,928 | 40,710 | 45,412 | 50,278 |
| | 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 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,989 | 13,657 | 20,378 | 26,925 | 33,360 | 39,921 | 47,211 | 63,484 | 59,672 | 66,066 |
| RW | 3000K Lumens | 6,187 | 12,089 | 18,039 | 23,834 | 29,530 | 35,338 | 41,791 | 47,353 | 52,822 | 58,482 |
| | 8UG Rating | B3-U0-G1 | 83-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | 85-U0-G4 | B5-U0-G4 |
| | 4000K/5000K Lumens | 7,014 | 13,706 | 20,452 | 27,023 | 33,481 | 40,066 | 47,383 | 53,688 | 59,888 | 66,306 |
| AFL | 3000K Lumens | 6,208 | 12,133 | 18,104 | 23,921 | 28,637 | 35,466 | 41,943 | 47,625 | 53,013 | 58,684 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | 83-U0-G3 | 83-U0-G3 | B3-U0-G3 | 83-U0-G3 | B3-U0-G4 | 84-U0-G4 | 84-U0-G4 |
| * Nominal dat | | 5, 50 0, | | | | | | | 22 20 01 | 2, 50.04 | 21 00.01 |

^{*} Naminal data for 70 CRI.



| Numbero | of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|------------|--------------------|-------------------|--------------------|----------|----------|------------------|------------------|------------------|-------------|------------------|----------|
| Nominal F | Power (Watts) | 59 | 113 | 166 | 225 | 279 | 333 | 391 | 445 | 501 | 558 |
| Input Curi | rent @ 120V (A) | 0.61 | 1.02 | 1.53 | 2.03 | 2.65 | 3.06 | 3.56 | 4.08 | 4.6 | 5.07 |
| Input Curr | rent @ 208V (A) | 0.29 | 0.56 | 0.82 | 1.11 | 1.37 | 1.64 | 1.93 | 2.19 | 2.46 | 2.75 |
| Input Carr | rent @ 240V (A) | 0.26 | 0.48 | 0.71 | 0.96 | 1.19 | 1.41 | 1.67 | 1.89 | 2.12 | 2.39 |
| Input Curr | rent @ 277V (A) | 0.23 | 0.42 | 0.61 | 0.83 | 1.03 | 1.23 | 1.45 | 1.65 | 1.84 | 2.09 |
| Input Curr | rent @ 347V (A) | 0.17 | 0.32 | 0.50 | 0.64 | 0.82 | 1.00 | 1.14 | 1.32 | 1.50 | 1.68 |
| Input Curr | rent @ 480V (A) | 0.14 | 0.24 | 0.37 | 0.48 | 0.61 | 0.75 | 0.91 | 0.99 | 1.12 | 1.28 |
| Optics | | | _ | | | | | | | | |
| | 4000K/5000K Lumens | 6,116 | 11,951 | 17,833 | 23,563 | 29,195 | 34,937 | 41,317 | 46,814 | 52,221 | 57,817 |
| Т2 | 3000K Lumens | 5,414 | 10,579 | 15,786 | 20,858 | 25,843 | 30,926 | 36,574 | 41,440 | 46,226 | 51,180 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,493 | 12,688 | 18,932 | 25,015 | 30,994 | 37,090 | 43,863 | 49,699 | 55,439 | 61,380 |
| T2R | 3000K Lumens | 5,748 | 11,231 | 16,759 | 22,143 | 27,436 | 32,832 | 38,828 | 43,994 | 49,075 | 54,334 |
| | 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 |
| | 4000K/5000K Lumens | 6,234 | 12,181 | 18,176 | 24,017 | 29,756 | 35,609 | 42,111 | 47,715 | 53,225 | 58,930 |
| ТЗ | 3000K Lumens | 5,518 | 10,783 | 16,089 | 21,260 | 26,340 | 31,521 | 37,277 | 42,237 | 47,115 | 52,165 |
| | BUG Rating | 81-U0-G2 | B2-U0-G2 | 83-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | 84-U0-G5 | B4-U0-G5 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,372 | 12,453 | 18,580 | 24,550 | 30,418 | 36,400 | 43,048 | 48,776 | 54,409 | 60,239 |
| T3R | 3000K Lumens | 5,840 | 11,023 | 16,447 | 21,732 | 26,926 | 32,221 | 38,106 | 43,177 | 48,163 | 53,324 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | 83-U0-G5 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 8,270 | 12,252 | 18,282 | 24,156 | 29,929 | 35,815 | 42,356 | 47,992 | 63,834 | 59,271 |
| T4FT | 3000K Lumens | 5,550 | 10,845 | 16,183 | 21,383 | 26,493 | 31,703 | 37,494 | 42,483 | 47,388 | 52,467 |
| 1461 | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 6,189 | 12,094 | 18,045 | 23,844 | 29,543 | 35,352 | 41,609 | 47,372 | 62,843 | 58,506 |
| TALA | 3000K Lumens | 5,479 | 10,706 | 15,973 | 21,107 | 26,151 | 31,284 | 37,009 | 41,934 | 46,777 | 51,790 |
| T4W | BUG Rating | 81-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | 84-U0-G5 | B4-U0-G5 | B4-U0-G5 | 84-U0-G5 |
| _ | 4000K/5000K Lumens | 5,105 | 11,931 | 17,803 | 23,522 | 29,144 | 34,877 | 41,245 | 46,734 | 52,130 | 57,717 |
| SL2 | 3000K Lumens | 5,404 | 10,561 | 15,759 | 20,822 | 25,798 | 30,873 | 36,510 | 41,369 | 46,145 | 51,091 |
| 912 | 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 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | | 12,180 | 18,174 | 24,013 | 29,753 | 35,804 | 42,106 | 47,708 | 53,218 | 58,921 |
| CLO | | 6,233 | | 16,068 | 21,258 | 26,337 | 31,517 | 37.272 | 42,231 | 47,109 | 52,157 |
| SL3 | 3000K Lumens | 5,517 B1-U0-G2 | 10,782 B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | | | 84-U0-G5 |
| | BUG Rating | | | | | _ | | | 83-U0-G5 | B4-U0-G5 | |
| | 4000K/5000K Lumens | 5,922 | 11,572 | 17,268 | 22,818 | 28,269 | 33,829 | 40,006 | 45,330 | 50,566 | 55,984 |
| SL4 | 3000K Lumens | 5,242 | 10,244 | 15,286 | 20,197 | 25,024 | 29,945 | 35,413 | 40,128 | 44,761 | 49,557 |
| | BUG Rating | 81-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | 83-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 6,429 | 12,563 | 18,746 | 24,788 | 30,688 | 36,723 | 43,429 | 49,208 | 54,891 | 60,775 |
| 5NQ | 3000K Lumens | 5,691 | 11,121 | 15,594 | 21,925 | 27,165 | 32,507 | 38,443 | 43,559 | 48,590 | 53,798 |
| | BUG Rating | B2-U0-G1 | B3-U0-G2 | 84-U0-G2 | B4-U0-G2 | 85-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 |
| | 4000K/5000K Lumens | 6,547 | 12,794 | 19,080 | 26,224 | 31,253 | 37,400 | 44,228 | 50,114 | 55,902 | 61,893 |
| 5MO | 3000K Lumens | 8,795 | 11,325 | 16,898 | 22,328 | 27,665 | 33,106 | 39,151 | 44,361 | 49,484 | 54,788 |
| | BUG Rating | 83-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | 85-U0-G4 | B5-U0-G4 | B5-U0-G5 | B5-U0-G5 |
| | 4000K/5000K Lumens | 8,584 | 12,828 | 19,141 | 25,281 | 31,336 | 37,499 | 44,347 | 50,248 | 56,051 | 62,058 |
| 5WQ | 3000K Lumens | 5,810 | 11,355 | 16,944 | 22,388 | 27,739 | 33,194 | 38,256 | 44,480 | 48,616 | 54,934 |
| | 8UG Rating | B3-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | 85-U0-G4 | 85-U0-G4 | 85-U0-G5 | B5-U0-G5 | B5-U0-G5 | 85-U0-G5 |
| | 4000K/5000K Lumens | 5,478 | 10,703 | 15,970 | 21,102 | 26,145 | 31,286 | 37,001 | 41,924 | 46,765 | 51,777 |
| SLL/SLR | 3000K Lumens | 4,849 | 9,474 | 14,137 | 18,679 | 23,144 | 27,894 | 32,753 | 37,111 | 41,396 | 45,833 |
| | BUG Rating | 81-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | 83-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 6,371 | 12,449 | 18,576 | 24,544 | 30,411 | 36,392 | 43,037 | 48,764 | 54,398 | 60,225 |
| RW | 3000K Lumens | 5,840 | 11,020 | 16,443 | 21,726 | 26,920 | 32,214 | 38,096 | 43,168 | 48,151 | 53,311 |
| N.VV | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | 84-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| | | | | | | | | | | | |
| | 4000K/5000K Lumens | 6,394 | 12,494 | 18,644 | 24,634 | 30,521 | 36,524 | 43,194 | 48,942 | 54,593 | 60,444 |
| AFL | | 6,394 5,860 | 12,494 11,060 | 18,644 | 24,634 | 30,521 27,017 | 36,524 32,331 | 43,194 38,235 | 48,942 | 54,593 48,326 | 53,505 |

^{*} Nominal data for 70 CRI.



| Number o | of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------|--------------------|----------|----------|--------------------|----------|----------|---------------|----------|----------|----------|----------|
| Nominal F | Power (Watts) | 44 | 85 | 124 | 171 | 210 | 249 | 295 | 334 | 374 | 419 |
| | rent @ 120V (A) | 0.39 | 0.77 | 1.13 | 1.64 | 1.90 | 2.26 | 2.67 | 3.03 | 3.39 | 3.80 |
| <u> </u> | rent @ 208V (A) | 0.22 | 0.44 | 0.62 | 0.88 | 1.06 | 1.24 | 1.50 | 1.68 | 1.87 | 2.12 |
| | rent @ 240V (A) | 0.19 | 0.38 | 0.54 | 0.76 | 0.92 | 1.08 | 1.30 | 1.46 | 1.62 | 1.84 |
| - | rent @ 277V (A) | 0.17 | 0.36 | 0.47 | 0.72 | 0.83 | 0.95 | 1.19 | 1.31 | 1.42 | 1.67 |
| - | rent @ 347V (A) | 0.15 | 0.24 | 0.38 | 0.49 | 0.63 | 0.77 | 0.87 | 1.01 | 1.15 | 1.52 |
| - | rent @ 480V (A) | 0.11 | 0.18 | 0.29 | 0.37 | 0.48 | 0.59 | 0.66 | 0.77 | 0.88 | 0.96 |
| Optics | Tent & 400 F(A) | V.17 | 0.10 | 0.10 | 0.37 | 0.40 | 0.50 | 0.00 | 0.77 | 0.00 | 0.50 |
| - Optios | 4000K/5000K Lumens | 4,941 | 9,656 | 14,408 | 19,038 | 23,588 | 28,227 | 33,382 | 37,823 | 42,191 | 46,713 |
| T2 | 3000K Lumens | 4,374 | 8,547 | 12,754 | 16,852 | 20,880 | 24,987 | 29,550 | 33,481 | 37,347 | 41,350 |
| 12 | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B4-U0-G5 | B4-U0-G5 |
| | _ | | | | | | | | | | |
| | 4000K/5000K Lumens | 5,246 | 10,251 | 15,296 | 20,211 | 25,041 | 29,966 | 35,439 | 40,164 | 44,791 | 49,592 |
| T2R | 3000K Lumens | 4,644 | 9,074 | 13,540 | 17,891 | 22,166 | 26,526 | 31,371 | 35,544 | 39,649 | 43,889 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 |
| | 4000K/5000K Lumens | 5,037 | 9,842 | 14,685 | 18,404 | 24,041 | 28,770 | 34,024 | 38,551 | 43,003 | 47,612 |
| Т3 | 3000K Lumens | 4,458 | 8,712 | 12,999 | 17,178 | 21,281 | 25,467 | 30,118 | 34,125 | 38,066 | 42,146 |
| | BUG Rating | B1-U0-G1 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | 83-U0-G4 | B3-U0-G4 | 83-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 5,148 | 10,061 | 16,011 | 18,835 | 24,576 | 29,409 | 34,780 | 39,408 | 43,959 | 48,669 |
| T3R | 3000K Lumens | 4,557 | 8,908 | 13,288 | 17,558 | 21,755 | 26,033 | 30,787 | 34,884 | 38,913 | 43,082 |
| | BUG Rating | B1-U0-G2 | 81-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 |
| | 4000K/5000K Lumens | 5,066 | 8,889 | 14,770 | 19,516 | 24,191 | 28,936 | 34,221 | 38,774 | 43,252 | 47,888 |
| T4FT | 3000K Lumens | 4,484 | 8,763 | 13,074 | 17,276 | 21,405 | 25,614 | 30,292 | 34,323 | 38,287 | 42,390 |
| <u>-</u> | BUG Rating | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | 83-U0-G5 | B3-U0-G5 |
| T4W | 4000K/5000K Lumens | 5,000 | 9,771 | 14,579 | 18,264 | 23,869 | 28,562 | 33,779 | 38,274 | 42,894 | 47,269 |
| | 3000K Lumens | 4,426 | 8,649 | 12,905 | 17,052 | 21,129 | 25,283 | 29,901 | 33,880 | 37,793 | 41,843 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | 83-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B4-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 4,833 | 9,639 | 14,383 | 18,005 | 23,547 | 28,178 | 33,324 | 37,758 | 42,118 | 46,632 |
| SL2 | 3000K Lumens | 4,367 | 8,532 | 12,732 | 16,823 | 20,844 | 24,943 | 29,498 | 33,423 | 37,283 | 41,278 |
| | BUG Rating | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | 84-U0-G5 | B4-U0-G5 |
| | 4000K/5000K Lumens | 5,036 | 9,841 | 14,683 | 19,401 | 24,039 | 28,766 | 34,019 | 38,546 | 42,997 | 47,605 |
| SL3 | 3000K Lumens | 4,458 | 8,711 | 12,997 | 17,174 | 21,279 | 25,464 | 30,114 | 34,121 | 38,061 | 42,140 |
| | BUG Rating | 81-U0-G2 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | 83-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 | 83-U0-G5 |
| | 4000K/5000K Lumens | 4,784 | 9,350 | 13,951 | 18,434 | 22,840 | 27,332 | 32,323 | 36,624 | 40,854 | 45,232 |
| SL4 | 3000K Lumens | 4,235 | 8,277 | 12,349 | 16,318 | 20,218 | 24,194 | 28,612 | 32,420 | 36,164 | 40,039 |
| | BUG Rating | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | 82-U0-G5 | B2-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 5,194 | 10,150 | 15,145 | 20,011 | 24,784 | 29,670 | 35,088 | 38,757 | 44,348 | 49,102 |
| 5NQ | 3000K Lumens | 4,598 | 8,985 | 13,406 | 17,714 | 21,948 | 26,264 | 31,060 | 35,193 | 38,258 | 43,465 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | 84-U0-G2 | 84-U0-G2 | B5-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 | B5-U0-G3 |
| | 4000K/5000K Lumens | 5,290 | 10,337 | 15,424 | 20,380 | 25,250 | 30,217 | 35,734 | 40,489 | 45,165 | 50,006 |
| 5MQ | 3000K Lumens | 4,683 | 9,150 | 13,653 | 18,040 | 22,351 | 26,748 | 31,632 | 35,841 | 39,980 | 44,265 |
| | 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 |
| | 4000K/5000K Lumens | 5,304 | 10,365 | 15,465 | 20,434 | 25,318 | 30,297 | 35,830 | 40,597 | 45,286 | 50,139 |
| 5WQ | 3000K Lumens | 4,695 | 8,175 | 13,690 | 18,088 | 22,411 | 26,819 | 31,717 | 35,836 | 40,087 | 44,383 |
| Jw | BUG Rating | B3-U0-G1 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | 85-U0-G4 | 85-U0-G4 | B5-U0-G5 | 85-U0-G5 |
| | 4000K/5000K Lumens | 4,426 | 8,648 | 12,903 | 17,049 | 21,124 | 25,278 | 29,894 | 33,872 | 37,784 | 41,832 |
| SLL/SLR | 3000K Lumens | 3,918 | 7,655 | 11,422 | 15,092 | 18,699 | 22,376 | 26,462 | 29,983 | 33,446 | 37,030 |
| JEE/GER | BUG Rating | B1-U0-G2 | 81-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | 83-U0-G5 | B3-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| | | | 10,058 | 15,008 | 19,830 | 24,570 | 29,402 | 34,771 | | | |
| DV4/ | 4000K/5000K Lumens | 5,147 | | | 17,654 | 21,748 | 26,027 | | 39,389 | 43,948 | 48,658 |
| RW | 3000K Lumens | 4,556 | 8,903 | 13,286 B3-U0-G2 | 84-U0-G2 | 84-U0-G2 | B4-U0-G2 | 30,779 | 34,876 | 38,904 | 43,072 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | | | | $\overline{}$ | 85-U0-G3 | 85-U0-G3 | B5-U0-G3 | B5-U0-G4 |
| | 4000K/5000K Lumens | 5,166 | 10,095 | 15,063 | 19,903 | 24,659 | 29,509 | 34,B98 | 39,542 | 44,108 | 48,835 |
| AFL | 3000K Lumens | 4,573 | 8,938 | 13,334 | 17,618 | 21,828 | 28,121 | 30,892 | 35,003 | 39,044 | 43,229 |
| | 8UG Rating | B1-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | 83-U0-G3 | 83-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 |

^{*} Nominal data for 70 CRI.



| NO MINTA | | | | | | | | | | | |
|------------------|--------------------|----------|-------------------|----------|--------------------|----------|----------|----------|----------|--------------------|----------|
| Number | of Light Squares | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Nominal | Power (Watts) | 34 | 65 | 95 | 129 | 152 | 193 | 226 | 257 | 290 | 323 |
| Input Cur | rrent @ 120V (A) | 0.30 | 0.58 | 0.86 | 1.16 | 1.44 | 1.73 | 2.03 | 2.33 | 2.59 | 2.89 |
| Input Cur | rrent @ 208V (A) | 0.17 | 0.34 | 0.49 | 0.55 | 0.84 | 0.99 | 1.14 | 1.30 | 1.48 | 1.63 |
| Input Cur | rent @ 240V (A) | 0.15 | 0.30 | 0.43 | 0.56 | 0.74 | 0.87 | 1.00 | 1.13 | 1.30 | 1.43 |
| Input Cur | rrent @ 277V (A) | 0.14 | 0.28 | 0.41 | 0.52 | 0.69 | 0.81 | 0.93 | 1.04 | 1,22 | 1.33 |
| Input Cur | rrent @ 347V (A) | 0.11 | 0.19 | 0.30 | 0.39 | 0.49 | 0.60 | 0.69 | 0.77 | 0.90 | 0.99 |
| Input Cur | rent @ 480V (A) | 0.08 | 0.15 | 0.24 | 0.30 | 0.38 | 0.48 | 0.53 | 0.59 | 0.71 | 0.77 |
| Optics | | | | | | | | | | | |
| | 4000K/5000K Lumens | 4,029 | 7,874 | 11,749 | 15,525 | 19,235 | 23,019 | 27,222 | 30,844 | 34,406 | 38,093 |
| Т2 | 3000K Lumens | 3,556 | 6,970 | 10,400 | 13,743 | 17,027 | 20,376 | 24,097 | 27,303 | 30,456 | 33,720 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| | 4000K/5000K Lumens | 4,278 | 8,360 | 12,474 | 16,482 | 20,421 | 24,437 | 28,900 | 32,745 | 36,527 | 40,441 |
| T2R | 3000K Lumens | 3,787 | 7,400 | 11,042 | 14,590 | 18,077 | 21,532 | 25,582 | 28,986 | 32,334 | 35,798 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | 82-U0-G2 | 82-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 |
| | 4000K/5000K Lumens | 4,107 | 8,026 | 11,976 | 15,824 | 19,505 | 23,461 | 27,746 | 31,438 | 35,068 | 38,927 |
| ТЗ | 3000K Lumens | 3,836 | 7,105 | 10,601 | 14,007 | 17,354 | 20,768 | 24,561 | 27,829 | 31,042 | 34,370 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 4,198 | 8,205 | 12,242 | 16,175 | 20,041 | 23,982 | 28,363 | 32,137 | 35,848 | 38,688 |
| T3R | 3000K Lumens | 3,716 | 7,263 | 10,837 | 14,318 | 17,740 | 21,229 | 25,107 | 29,448 | 31,733 | 35,133 |
| 1311 | BUG Railing | B1-U0-G1 | 81-U0-G2 | B2-U0-G2 | 82-U0-G3 | B2-U0-G3 | 83-U0-G4 | 83-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 4,131 | 8,072 | 12,045 | 15,915 | 19,719 | 23,597 | 27,907 | 31,620 | 35,272 | 39,052 |
| T4FT | 3000K Lumens | 3,657 | 7,145 | 10,662 | 14,088 | 17,455 | 20,888 | 24,703 | 27,890 | 31,223 | 34,569 |
| 141-1 | BUG Rating | B1-U0-G1 | B1-U0-G2 | 82-U0-G2 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | 83-U0-G4 | 83-U0-G5 | B3-U0-G5 | B3-U0-G5 |
| T4W | 4000K/6000K Lumens | 4,077 | 7,968 | 11,889 | 15,710 | 19,455 | 23,292 | 27,546 | 31,212 | | |
| | 3000K Lumens | 3,609 | 7,053 | 10,524 | 13,906 | 17,230 | 20,618 | 24,384 | 27,629 | 34,815 | 38,547 |
| | BUG Rating | B1-U0-G1 | 7,053 B1-U0-G2 | B2-U0-G2 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | 30,818 B3-U0-G5 | 34,122 |
| | 4000K/5000K Lumens | 4,022 | 7,861 | 11,729 | 15,498 | 19,202 | 22,979 | 27,175 | 30,791 | | B3-U0-G5 |
| CI 2 | 3000K Lumens | | | _ | | 16,998 | 20,341 | | | 34,347 | 38,028 |
| SL2 | | 3,550 | 6,959 | 10,383 | 13,719 B2-U0-G3 | B3-U0-G3 | | 24,055 | 27,256 | 30,404 | 33,662 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | | _ | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| 61.0 | 4000K/5000K Lumens | 4,106 | 8,025 | 11,974 | 15,821 | 19,603 | 23,458 | 27,742 | 31,433 | 35,0 6 4 | 38,821 |
| SL3 | 3000K Lumens | 3,635 | 7,104 | 10,599 | 14,005 | 17,353 | 20,765 | 24,557 | 27,824 | 31,039 | 34,364 |
| | 8UG Rating | B1-U0-G1 | B1-U0-G2 | B2-U0-G3 | B2-U0-G3 | B2-U0-G3 | B3-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 3,902 | 7,624 | 11,377 | 15,033 | 18,626 | 22,289 | 26,359 | 29,867 | 33,316 | 36,688 |
| SL4 | 3000K Lumens | 3,454 | 6,749 | 10,071 | 13,307 | 16,488 | 19,730 | 23,333 | 26,438 | 29,491 | 32,651 |
| | BUG Rating | 81-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G4 | B2-U0-G4 | B2-U0-G4 | B2-U0-G5 | B3-U0-G5 | 83-U0-G5 |
| | 4000K/5000K Lumens | 4,235 | 8,277 | 12,351 | 16,319 | 20,219 | 24,186 | 29,614 | 32,422 | 36,168 | 40,042 |
| 5NQ | 3000K Lumens | 3,750 | 7,327 | 10,833 | 14,446 | 17,898 | 21,418 | 25,329 | 28,700 | 32,014 | 35,445 |
| | BUG Rating | B2-U0-G1 | B3-U0-G1 | 83-U0-G2 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G2 | 85-U0-G3 | B5-U0-G3 |
| | 4000K/5000K Lumens | 4,314 | 8,428 | 12,578 | 16,619 | 20,591 | 24,641 | 29,141 | 33,018 | 36,832 | 40,779 |
| 5 MO | 3000K Lumens | 3,818 | 7,461 | 11,134 | 14,711 | 18,227 | 21,812 | 25,798 | 29,228 | 32,604 | 36,098 |
| | 8UG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | B5-U0-G3 | B5-U0-G3 | 85-U0-G4 | B5-U0-G4 | B5-U0-G4 |
| | 4000K/5000K Lumens | 4,325 | 8,452 | 12,811 | 16,664 | 20,648 | 24,707 | 29,219 | 33,106 | 36,930 | 40,888 |
| 5WQ | 3000K Lumens | 3,828 | 7.482 | 11,163 | 14,751 | 18,276 | 21,871 | 25,865 | 29,305 | 32,690 | 36,194 |
| | BUG Rating | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | 84-U0-G2 | B5-U0-G3 | B5-U0-G3 | B5-U0-G4 | B5-U0-G4 | B5-U0-G4 | 85-U0-G4 |
| | 4000K/5000K Lumens | 3,609 | 7,052 | 10,522 | 13,903 | 17,226 | 20,613 | 24,378 | 27,622 | 30,812 | 34,114 |
| SLL/S L R | 3000K Lumens | 3,195 | 6,242 | 9,314 | 12,307 | 15,248 | 18,247 | 21,579 | 24,451 | 27,275 | 30,198 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 | B2-U0-G4 | B3-U0-G4 | B3-U0-G4 | B3-U0-G5 | B3-U0-G5 |
| | 4000K/5000K Lumens | 4,197 | 8,202 | 12,239 | 16,171 | 20,036 | 23,977 | 28,356 | 32,129 | 35,838 | 38,680 |
| RW | 3000K Lumens | 3,715 | 7.260 | 10,834 | 14,315 | 17,736 | 21,224 | 25,101 | 28,441 | 31,725 | 35,125 |
| | 8UG Rating | B2-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 | 84-U0-G2 | 85-U0-G3 | B5-U0-G3 | 85-U0-G3 |
| | 4000K/5000K Lumens | 4,213 | 8,232 | 12,284 | 16,230 | 20,109 | 24,084 | 28,468 | 32,246 | 35,968 | 39,824 |
| AFL | 3000K Lumens | 3,729 | 7,287 | 10,874 | 14,367 | 17,800 | 21,301 | 25,192 | 28,544 | 31,840 | 35,252 |
| | 8UG Rating | 81-U0-G1 | B1-U0-G1 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 | B3-U0-G2 | B3-U0-G3 | B3-U0-G3 | B3-U0-G3 | 83-U0-G3 |

Nominal data for 70 CRI.



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)

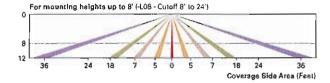
This feeture allows photocontrol-enabled luminairas to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile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

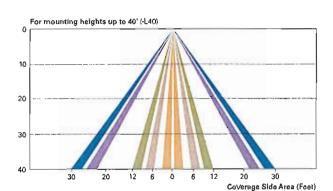
Dimming Decupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

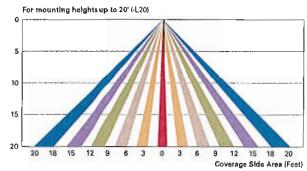
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The 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 luminairo 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.

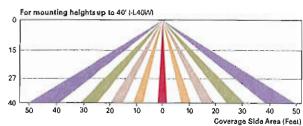
These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.





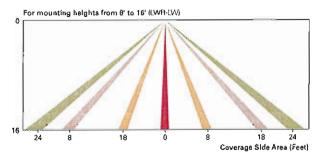


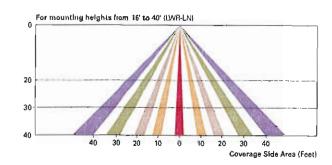


LumaWatt Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The LumaWatt system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt product guides.







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

| Product Family 1.2 | Light Engine | Number of Light Squares | Lemp Type | Voltage | Distribution | Calor | Mounting |
|--------------------|------------------------|---|--|---|--|---|--|
| GLEON-Galleon | AF=1A Drive Current | 01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10 | LED-Solid State Light Emitting Diodes 2 - Types S | E1=120-277V 347=347V 4 480=480V 4,7 | T2=Type II T2R=Type II Roadway T3=Type III Roadway T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wirde 5NO=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Medium 5WQ=Type V Square Medium 5WQ=Type V Square Wirde Type S1 \$L2=Type II wSpill Control \$L3=Type II wSpill Control \$L4=Type IV wSpill Control \$L4=Type V wSpill Control \$L4=Type V wSpill Control \$L4=Type V wSpill Light Eliminator Left \$LR=90* Spill Light Eliminator Left \$LR=90* Spill Light Eliminator Right RW=Rectangular Wirde 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* MA=Mast Arm Adapter * WM=Wall Mount OM=Outick Mount Arm (Stendard Length) ** QMEA=Outick Mount Arm (Extended Length) ** |

| | | AFL=Automotive Frontline | | |
|--|---|---|--|---|
| Options (Add as Suffix) | Accessories (Drder Sep | Accessories (Drder Separately) | | |
| 7030=70 CRI 3000K ¹² 8030=80 CRI 3000K ¹² 7050=70 CRI 5000K ¹² 7050=70 CRI 5000K ¹² 800=Drive Current Factory Set to Nominal 800mA ¹⁴ 800=Drive Current Factory Set to Nominal 800mA ¹⁴ 1200=Drive Current Factory Set to Nominal 1200mA ¹⁴ 15 F=Single Fuse (120, 277 or 347V. Must Specify Voltage) 2L=Two Circuits ¹⁶ 17 DIM=External 0-10V Dimming Leads P=Button Type Photocontrol (120, 208, 240 or 277V. Must Spe PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle R= | um 8' Mounting Height ^{20,21} Mounting Height ^{20,22} Mounting Height ^{20,22} Mounting Height (Wide Range) light ^{20,23,23} ^{20,23,25} ^{20,23,25} ^{20,23,25} Mt (Wide Range) ^{20,24,26} Mounting Height ^{20,21} ing Height ^{20,22} ting Height ^{20,22} tunting Height (Wide Range) ^{20,24} ounting Height (Wide Range) ^{20,24} | OA/RA1027=NEMA Pho OA/RA1013=Photoconi OA/RA1014=120V Photoconi OA/RA1014=120V Photoconi OA/RA1014=120V Photoconi OA/RA1014=120V Photoconi MA1252=10kV Surge M MA1037-XX=2@180° Te MA1187-XX=3@120° Te MA1188-XX=4@90° Ter MA1189-XX=2@90° Ter MA1190-XX=3@90° Ter MA1190-XX=3@90° Ter MA1039-XX=2@180° Te MA1039-XX=2@180° Te MA1192-XX=3@120° Te MA1193-XX=4@90° Ter MA1194-XX=2@90° Ter MA1195-XX=3@90° Ter MA1195-XX=3@90° Ter FSIR-100=Wireless Coni GLEON-MT1=Field Insta | otocontrol - 347V rol Sharting Cep ocontrol countrol cocontrol odule Replacement on Adapter for 2-3/8" O.D. enon Adapter for 2-3/8" O.D. enon Adapter for 2-3/8" O.D. on Adapter for 2-3/8" O.D. enon Adapter for 2-3/8" O.D. enon Adapter for 2-3/8" O.D. enon Adapter for 3-1/2" O. | Tenon D. Tenon D. Tenon Tenon Tenon Tenon Tenon D. Tenon D. Tenon D. Tenon D. Tenon |

NOTES:

- 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. Design-lights Consortium ~ Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 3. Standard 4000X CCT and minimum 70 CRI.
 4. Not compatible with extended quick mount arm (QMEA).

- 4. Not compatible with taxtended quick mount arm (OMEA).

 5. Not compatible with standard quick mount arm (OMEA) (5. Not compatible with standard quick mount arm (OMEA) (6. Requires the use of an internal step down transformer when combined with sensor options at 1A.

 7. Only for use with 480V Wys 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 Comer Grounded Delta systems).

 8. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.

- 9. Factory installed. 10. Maximum 8 light squares.

- 9. Factory installed.
 10. Maximum 8 light squares.
 11. Maximum 8 light squares.
 12. Extended fead times apply. Use dedicated IES files for 3000X, 5000X and 6000X when performing layouts. These files are published on the Galleon luminaire product page on the website.
 13. Extended fead times apply. Use dedicated IES files for 3000X, 5000X and 6000X when performing layouts. These files are published on the Galleon luminaire product page on the website.
 14. I 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.
 15. Not available with HA option.
 16. 2L Is not available with HA option.
 16. 2L Is not available with HA poston.
 17. 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 lable.
 17. Not available with LumaWait Wireless sensors.
 18. Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Qim supplemental golde for additional information.
 19. 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
 20. The FSIR-100 configuration total 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.
 21. Approximately 2° detection diameter at 8° mounting height.
 22. Approximately 10° detection diameter at 40° mounting height.
 23. Approximately 10° detection diameter at 40° mounting height.
 24. Approximately 10° detection diameter at 40° mounting height.
 25. Replace X with number of Light Squares operating in low autput mode.
 26. LumaWait wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting f



DESCRIPTION

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

| Catalog # | | Туре |
|-------------|-----------------------------|-----------|
| Project | Chesterfield Sports Complex | WP1 & WP2 |
| Comments | | Date |
| Prepared by | | |

McGraw-Edison

SPECIFICATION FEATURES

Construction

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

Optics

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

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

Electrical

LED drivers are mounted for ease of maintenance, 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Eaton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in -30°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

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

Finist

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

Warranty Five-year warranty.

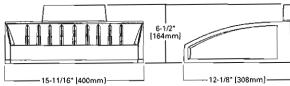


GWC GALLEON WALL LUMINAIRE

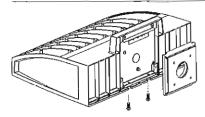
1-2 Light Squares Solid State LED

WALL MOUNT LUMINAIRE

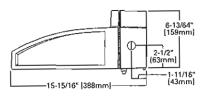
DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX







CERTIFICATION DATA

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

ENERGY DATA

Electronic LED Driver >0.9 Power Factor <20% Total Harmonic Distortion 120-277V/50 & 60Hz, 347V/60Hz, 480V/60Hz -30°C Minimum Temperature 40°C Ambient Temperature Rating

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



page 2 GWC GALLEON WALL LUMINAIRE

POWER AND LUMENS

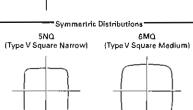
| | | | | _ | | | | | |
|--------------------------|--------------------|-------------------|----------|-------------------|----------|-------------------|----------|----------|---------------------|
| Number of | Ught Squares | | | 1 | | | | 2 | |
| Drive Current | | 600mA | 800mA | 1.0A | 1.2A | 600mA | 800mA | 1.0A | 1.2A |
| Nominal Power (Watts) | | 34 | 44 | 59 | 67 | 66 | 85 | 113 | 129 |
| Input Current @ 120V (A) | | 0.30 | 0.39 | 0.51 | 0.58 | 0.58 | 0.77 | 1.02 | 1.18 |
| Input Curre | ent @ 208V (A) | 0.17 | 0.22 | 0.29 | 0.33 | 0.34 | 0.44 | 0.56 | 0.63 |
| Input Curre | anl @ 240V (A) | 0.15 | 0.19 | 0.26 | 0.29 | 0.30 | 0.38 | 0.48 | 0.55 |
| Input Curre | ent @ 277V (A) | 0.14 | 0.17 | 0.23 | 0.25 | 0.28 | 0.38 | 0.42 | 0.48 |
| Input Curre | ent @ 347V (mA) | 0.11 | 0.15 | 0.17 | 0.20 | 0.19 | 0.24 | 0.32 | 0.39 |
| Input Curre | ant @ 480V (mA) | 0.08 | 0.11 | 0.14 | 0.15 | 0.15 | 0.18 | 0.24 | 0.30 |
| Optics | | | | | | | | | |
| | 4000K/5000K Lumens | 4,110 | 5,040 | 8,238 | 6,843 | 8,031 | 9,849 | 12,190 | 13,373 |
| T2 | 3000K Lumens | 3,638 | 4,461 | 5,522 | 6,057 | 7,109 | 8,718 | 10,791 | 11,638 |
| | BUG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 |
| | 4000K/5000K Lumens | 4,189 | 5,138 | 6,359 | 8,975 | 8,187 | 10,039 | 12,425 | 13,630 |
| Т3 | 3000K Lumens | 3,708 | 4,548 | 5,629 | 8,174 | 7,247 | 8,887 | 10,999 | 12,065 |
| | 8UG Rating | B1-U0-G1 | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 |
| | 4000K/5000K Lumens | 4,214 | 5,167 | 8,395 | 7,016 | 8,233 | 10,097 | 12,497 | 13,709 |
| T4FT | 3000K Lumens | 3,730 | 4,574 | 5,661 | 6,211 | 7,288 | 8,938 | 11,062 | 12,135 |
| | BUG Rating | 81-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B2-U0-G3 | 82-U0-G3 |
| | 4000K/5000K Lumens | 4,159 | 5,100 | 6,313 | 8,925 | 6,127 | 9,966 | 12,336 | 13,532 |
| T4W | 3000K Lumens | 3,682 | 4,515 | 5,588 | 8,130 | 7,194 | 8,822 | 10,920 | 11,979 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B2-U0-G2 | B2-U0-G2 | B2-U0-G3 | B2-U0-G3 |
| | 4000K/5000K Lumens | 4,102 | 5,032 | 6,227 | 6,831 | 8,018 | 9,832 | 12,170 | 13,350 |
| SL2 | 3000K Lumens | 3,631 | 4,454 | 5,512 | 6,047 | 7,098 | 8,703 | 10,773 | 11,817 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | 82-U0-G2 | B2-U0-G3 | B2-U0-G3 |
| | 4000K/5000K Lumens | 4,188 | 5,137 | 6,358 | 8,974 | 8,186 | 10,038 | 12,424 | 13,628 |
| SL3 | 3000K Lumens | 3,707 | 4,547 | 5,828 | 6,173 | 7,246 | 8,886 | 10,998 | 12,064 |
| | 8UG Rating | B1-U0-G1 | B1-U0-G2 | 81-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B2-U0-G3 | B2-U0-G3 |
| | 4000K/5000K Lumens | 3,980 | 4,890 | 6,040 | 6,628 | 7,778 | 9,537 | 11,803 | 12,949 |
| SL4 | 3000K Lumens | 3,523 | 4,320 | 5,347 | 5,865 | 6,883 | 8,442 | 10,448 | 11,462 |
| | BUG Rating | 81-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G3 |
| | 4000K/5000K Lumens | 4,321 | 5,298 | 6,558 | 7,193 | 8,443 | 10,353 | 12,814 | 14,057 |
| 5NQ | 3000K Lumens | 3,825 | 4,690 | 5,605 | 6,367 | 7,474 | 9,184 | 11,343 | 12,443 |
| | BUG Rating | B2-U0-G1 | B2-U0-G1 | B2-U0-G1 | B3-U0-G1 | B3-U0-G1 | B3-U0-G1 | B3-U0-G2 | B3-U0-G2 |
| | 4000K/5000K Lumens | 4,400 | 5,396 | 6,678 | 7,326 | 8,598 | 10,544 | 13,050 | 14,315 |
| 5MQ | 3000K Lumens | 3,895 | 4,777 | 5,911 | 6,485 | 7,611 | 9,334 | 11,552 | 12,672 |
| | 8UG Rating | B3-U0-G1 | B3-U0-G1 | B3-U0-G1 | B3-U0-G1 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | B4-U0-G2 |
| | 4000K/5000K Lumens | 4,412 | 5,410 | 6,895 | 7,345 | 6,821 | 10,572 | 13,085 | 14,354 |
| 5WQ | 3000K Lumens | 3,908 | 4,789 | 5,926 | 6,502 | 7,631 | 9,358 | 11,563 | 12,708 |
| | BUG Rating | B3-U0-G1 | B3-U0-G1 | B3-U0-G2 | B3-U0-G2 | B3-U0-G2 | B4-U0-G2 | B4-U0-G2 | 84-U0-G2 |
| | 4000K/5000K Lumens | 3,661 | 4,515 | 5,588 | 6,129 | 7,193 | 8,821 | 10,917 | 11,976 |
| SLL/SLR | 3000K Lumens | 3,258 | 3,997 | 4,946 | 5,425 | 6,367 | 7,806 | 9,664 | 10,601 |
| | BUG Rating | B1-U0-G1 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G2 | B1-U0-G3 | B1-U0-G3 | B2-U0-G3 |
| | 4000K/5000K Lumens | 4,281 | 5,250 | 6,498 | 7,129 | 8,366 | 10,259 | 12,698 | 13,930 |
| RW | 3000K Lumens | 3,790 | 4,647 | 5,752 | 6,311 | 7,406 | 9,081 | 11,240 | |
| 1144 | | 3,790 B2-U0-G1 | 82-U0-G1 | 5,752 B3-U0-G1 | B3-U0-G1 | 7,406 B3-U0-G1 | B3-U0-G1 | B3-U0 G2 | 12,331 B3-110-G2 |
| | BUG Rating | 02-00-01 | 02-UU-U1 | EO-00-01 | 69-00-01 | D3-00-G1 | BO-00-01 | B3-00 02 | B3-U0-G2 |

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

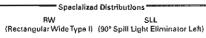


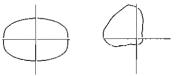
Specifications and dimensions subject to change without notice.

Asymmetric Area Distributions T2 (Type II) (Type II with Spill Control) T3 (Type III) (Type III with Spill Control) T4FT (Type IV Forward Throw) SL4 (Type IV with Spill Control)





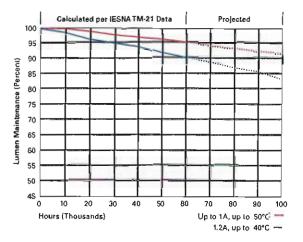




SLR (90° Spill Light Eliminator Right)

LUMEN MAINTENANCE

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



LUMEN MULTIPLIER

| Ambient Tamparature | Lumen Multiplier | | |
|------------------------|---------------------|--|--|
| 0 C | 1.02 | | |
| 10 C | 1.01 | | |
| 25 C | 1.00 | | |
| 40 C | 0.99 | | |
| 50 C | 0.97 | | |



page 4 GWC GALLEON WALL LUMINAIRE

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)

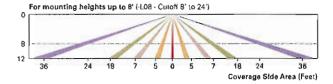
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile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

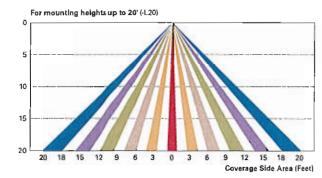
Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

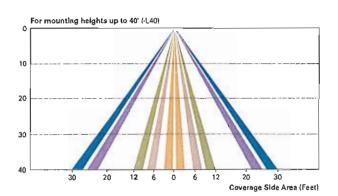
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The 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.

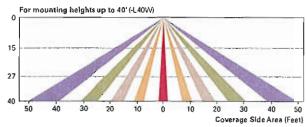
These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters.

A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.





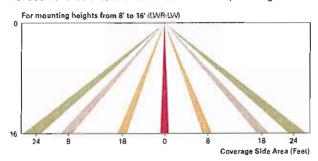


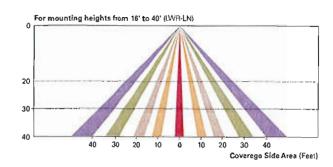


LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)

The LumaWatt Pro system is a peer-to-peer wireless network of luminaire-integral sensors for any sized project. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication. The end-user can securely create and manage sensor profiles with browser-based management software. The software will automatically broadcast to the sensors via wireless gateways for zone-based and individual luminaire control. The LumaWatt Pro software provides smart building solutions by utilizing the sensor to provide easy-to-use dashboard and analytic capabilities such as improved energy savings, traffic flow analysis, building management software integration and more.

For additional details, refer to the LumaWatt Pro product guides.





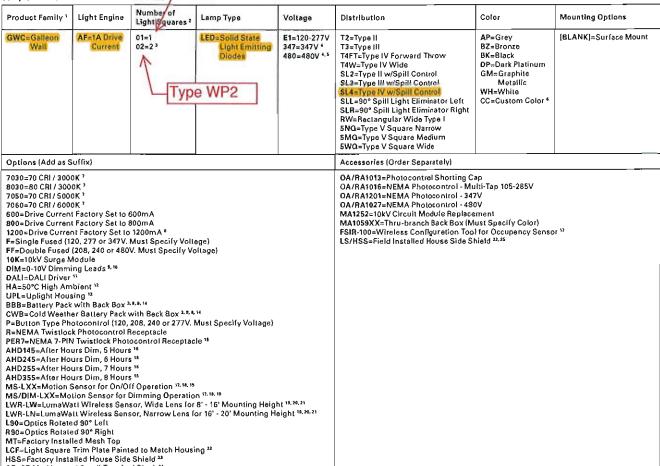


Eaton 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

ORDERING INFORMATION

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



CE=CE Marking and Small Terminal Block 24

- CE=CE Marking and Small Terminal Block ³⁴

 NOTES:

 1. DesignLight Consortium³. Qualied. Refer to www.designlights.org Qualified Products List under Family Models for details.

 2. Standard 4000K CCT and minimum 70 CRI.

 3. Two light squares with BBB or CWB options limited to 25°C, 120-277V only.

 4. Requires the use of a step down transformer. Not available in combination with sensor options at 1200mA.

 5. 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 Delts, Three Phase High Leg Delts and Three Phase Corner Grounded Delta systems.)

 6. Custom colors are available. Setup charges apply. Paint chip samples required. Extended Lead times apply.

 7. Extended lead times apply. Use dedicated IES fles when performing layouts.

 8. Not available with HA option.

 9. Cannot be used with other control options.

 10. Low voltage control lead brought out 18° outside fixture.

 11. Only available with 1200, UPL, BBB and CWB options. Available for single light square only.

 12. Not available with 120, UPL, BBB and CWB options. Available for single light square only.

 13. Not available with 120, UPL, BBB and CWB options. Available for single light square only.

 14. Operates a single light square only. Cold weather option operates -20°C to +40°C, standard 0°C to +40°C. Backbox is non-IP rated.

 15. Compatible with BBB or CWB in single light square only.

 16. Requires the use of P photocortrol or the PER? or in Photocortrol receptate with photocontrol accessory. See After Hours Qim supplemental guide for additional information.

 17. The FSIR-100 configuration lool is required to adjust parameters including high and low modes, sonsitivity. Lime delay, cutoff and more. Consult your lighting representative at Eaton for more information.

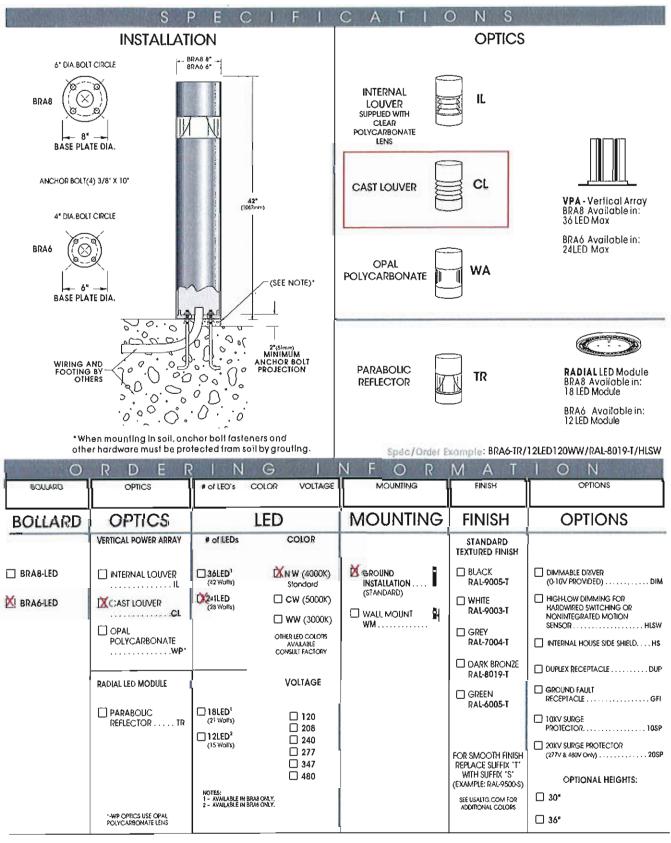
 18. Replace LX with the evaluable mounting height options: 108, 120, 140 or 1400°C to +40°C. Beckbox is non-IP rated.

 19. Includes integral photocontrol or the PER? or

- 23. Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
 24. CE is not available with the 1200, OALI, LWR, MS, MS/DIM, P, R or FER7 options. Available in 120-277V only.
- 25. One required for each light square.



BRA SERIES-LED

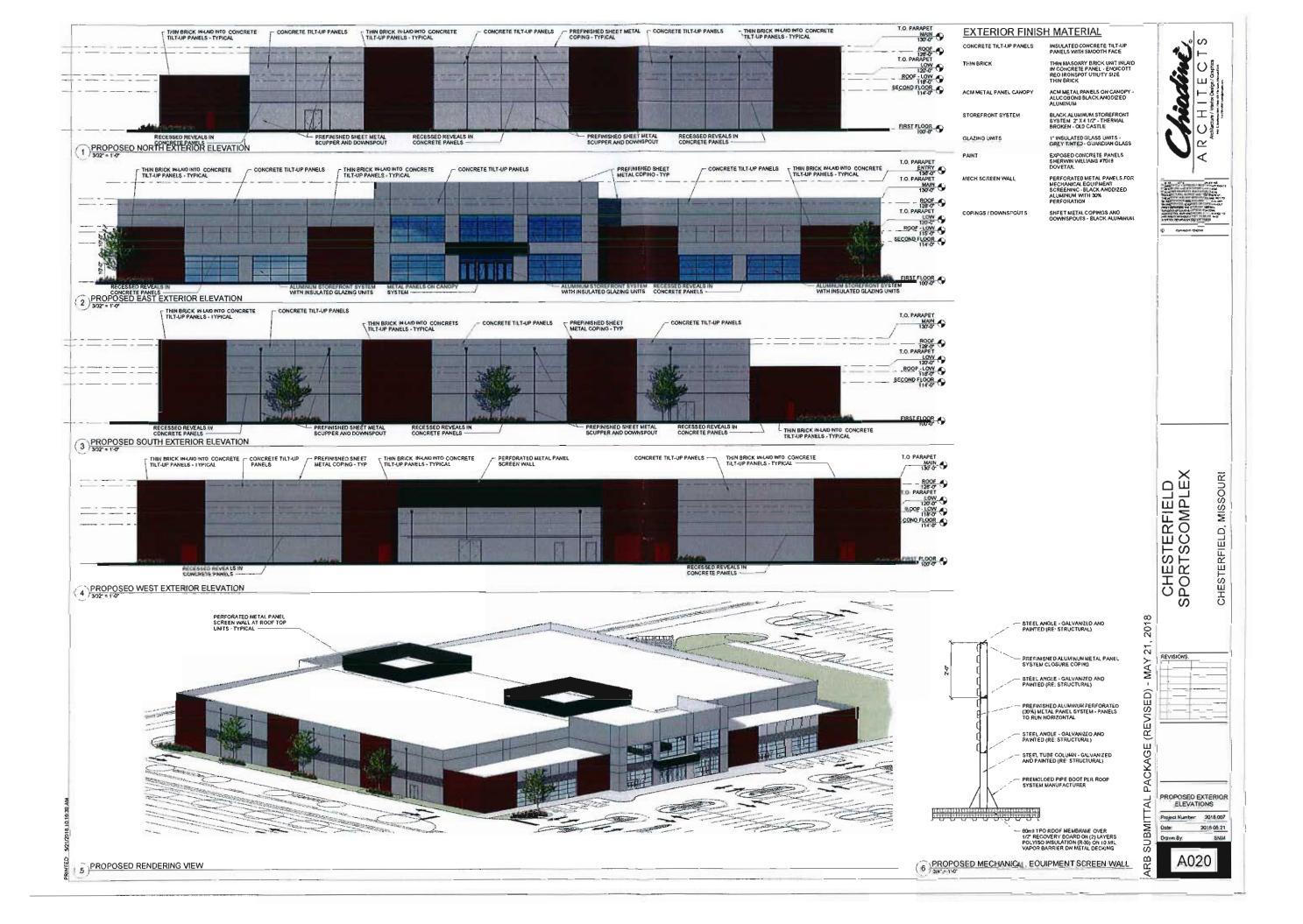


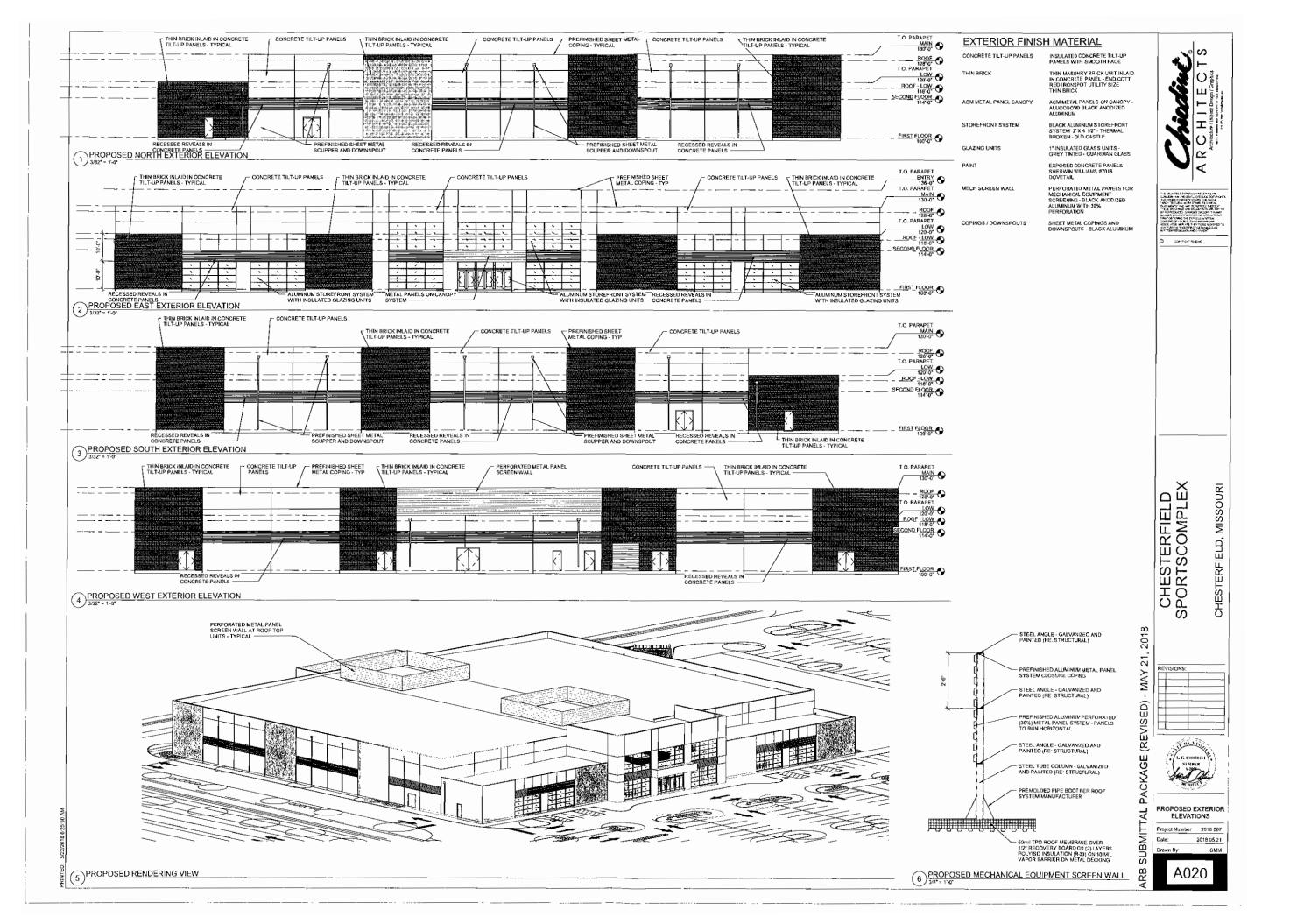


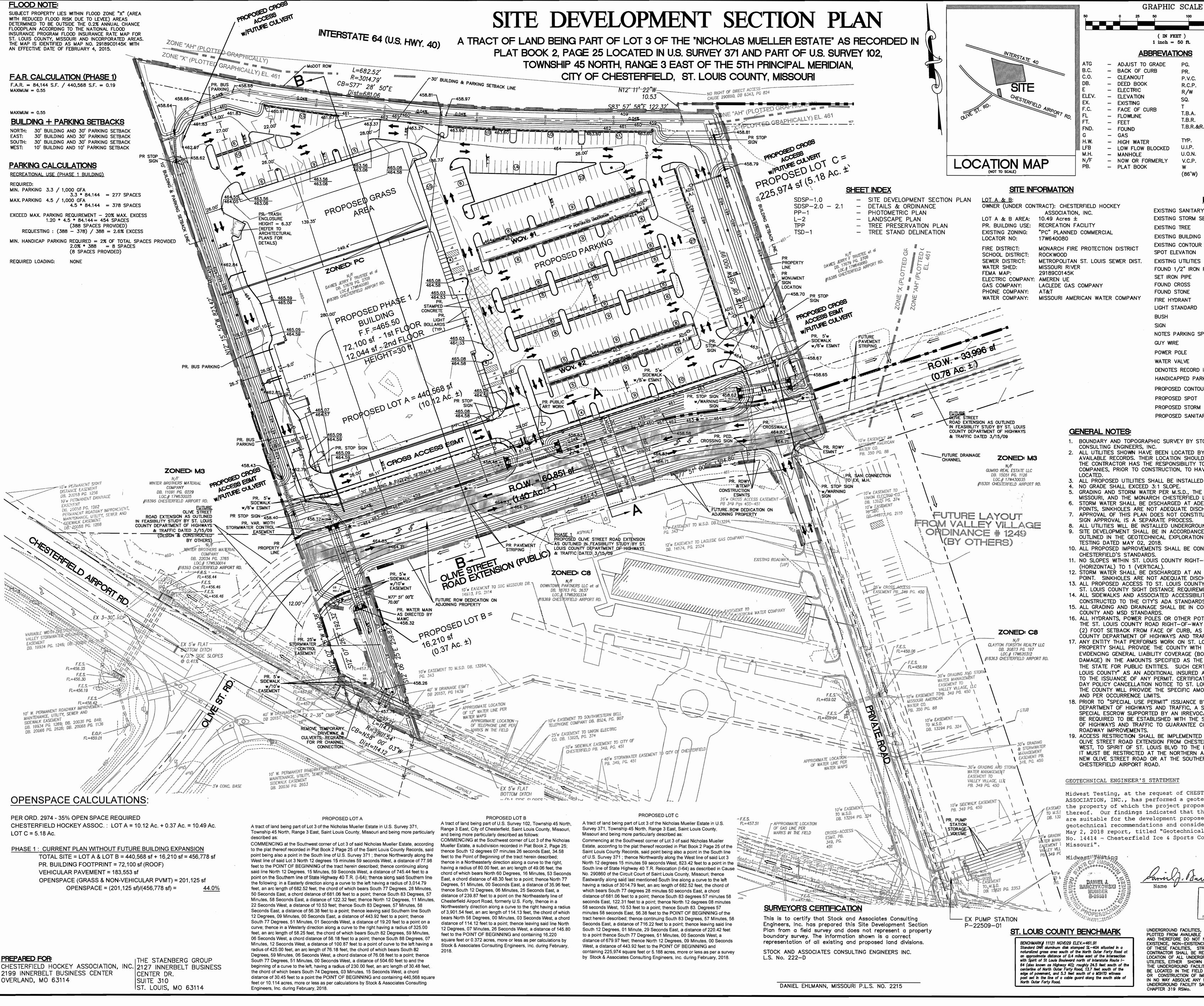
CHESTERFIELD SPORTSCOMPLEX

CHESTERFIELD, MISSOURI

RECEIVED JUL - 3 2018 City of Chesterfield Department of Public Services







SSOCIATES

EXISTING SANITARY SEWER = = = =

EXISTING TREE EXISTING BUILDING **EXISTING CONTOUR** SPOT ELEVATION EXISTING UTILITIES - G - W - T - E -FOUND 1/2" IRON PIPE SET IRON PIPE FOUND CROSS FOUND STONE

PROPOSED

RIGHT—OF—WAY

TO BE REMOVED

TELEPHONE CABLE

SQUARE

T.B.A. – TO BE ABANDONED

T.B.R.&R. — TO BE REMOVED

W - WATER

TYPICALLY

POLYVINYL CHLORIDE PIPE

REINFORCED CONCRETE PIPE

AND REPLACED

UNLESS OTHERWISE NOTED

VITRIFIED CLAY PIPE

(86'W) - RIGHT-OF-WAY WIDTH

FIRE HYDRANT LIGHT STANDARD NOTES PARKING SPACES GUY WIRE POWER POLE WATER VALVE HANDICAPPED PARKING

DENOTES RECORD INFORMATION PROPOSED CONTOUR PROPOSED SPOT PROPOSED STORM PROPOSED SANITARY

BOUNDARY AND TOPOGRAPHIC SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.

2. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD

ALL PROPOSED UTILITIES SHALL BE INSTALLED UNDERGROUND. . NO GRADE SHALL EXCEED 3:1 SLOPE.

5. GRADING AND STORM WATER PER M.S.D., THE CITY OF CHESTERFIELD MISSOURI, AND THE MONARCH CHESTERFIELD LEVEE DISTRICT STORM WATER SHALL BE DISCHARGED AT ADEQUATE NATURAL DISCHARGE POINTS, SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNAGE.

SIGN APPROVAL IS A SEPARATE PROCESS 8. ALL UTILITIES WILL BE INSTALLED UNDERGROUND. 9. SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL EXPLORATION PREPARED BY MIDWEST

10. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO CITY OF CHESTERFIELD'S STANDARDS.

11. NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL)

12. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS. 13. ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.

14. ALL SIDEWALKS AND ASSOCIATED ACCESSIBILITY IMPROVEMENTS SHALL BE CONSTRUCTED TO THE CITY'S ADA STANDARDS.

15. ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS. 16. 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, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC. 17. 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.

18. 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

ACCESS RESTRICTION SHALL BE IMPLEMENTED UPON CONNECTION OF THE OLIVE STREET ROAD EXTENSION FROM CHESTERFIELD AIRPORT ROAD TO THE WEST, TO SPIRIT OF ST. LOUIS BLVD TO THE EAST. PER ORDINANCE 2794. IT MUST BE RESTRICTED AT THE NORTHERN ACCESS POINT SOUTH OF THE NEW OLIVE STREET ROAD OR AT THE SOUTHERN ACCESS POINT NORTH OF CHESTERFIELD AIRPORT ROAD.

GEOTECHNICAL ENGINEER'S STATEMENT

Midwest Testing, at the request of CHESTERFIELD HOCKEY ASSOCIATION, INC., has performed a geotechnical exploration for the property of which the project proposed hereon is a part thereof. Our findings indicated that the earth related aspects are suitable for the development proposed hereon pursuant to the geotechnical recommendations and considerations set forth in our May 2, 2018 report, titled "Geotechnical Exploration - MT Job -70'W GRADIN No. 14414 - Chesterfield Ice & Sports Complex - Chesterfield,

> RECEIVED JUN 29 2018

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY WITH COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT,

A.L.W. 03/01/2018 03/01/2018 03: 03/01/2018 215-5542.2 City of Chesterfield pertorent of Public Servi-MO-00

SITE **DEVELOPMENT** SECTION PLAN

SDSP-1.0

GEORGE MICHAEL

CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

04-11-18 MEETING WITH

104-23-18 CITY COMMENTS

05-21-18 CITY COMMENTS

06-22-18 CITY COMMENTS

106-26-18 CITY COMMENTS

06-29-18 PLANNING

REVISIONS:

OLIVE STREET ROAD EXTENSION - ULTIMATE SCALE: N.T.S.

Section 03.

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 ____ acknowledged said instrument to be the free act and deed of said corporation.

Print Name

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my Notarial Seal at my Office in __ the day and year last above written.

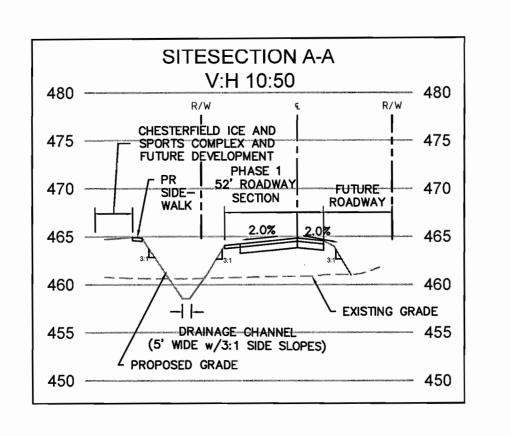
This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the ___, 2018, by the CHairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Director of Planning and Development Services and the City Clerk.

Justin Wyse, Director of Planning and Development Services

Page 2 of 20

Page 7 of 20

**DETAILS ARE PER ARCHITECTURAL PLANS TRASH ENCLOSURE



6" SOLID

My commission expires: FUTURE 30' FRONT YARD BUILDING 8 OLIVE PARKING STREET ROAD SETBACK EDGE **EXTENSION** SKY EXPOSURE PLANE - SECTION B-B TOP OF ROOF - 495.50 1st FLOOR - 465.50 SOUTH 5'w FLAT BOTTOM DITCH NORTH 5'w FLAT BOTTOM DITCH

BILL NO. 3165

ORDINANCE NO. 2977

AN ORDINANCE AMENDING THE ZONING ORDINANCE OF THE CITY OF CHESTERFIELD BY CHANGING THE BOUNDARIES OF AN "M3" PLANNED INDUSTRIAL DISTRICT TO A "PC" PLANNED COMMERCIAL DISTRICT FOR A 17.85 ACRE TRACT OF LAND AT 18385 CHESTERFIELD AIRPORT ROAD LOCATED NORTH OF CHESTERFIELD AIRPORT ROAD AND NORTHEAST OF ITS INTERSECTION WITH OLIVE STREET ROAD AND NORTHWEST OF ITS INTERSECTION WITH WINGS OF HOPE BOULEVARD. (P.Z. 09-2017 18385 CHESTERFIELD AIRPORT ROAD (CHESTERFIELD HOCKEY ASSOCIATION 17W640080).

WHEREAS, the petitioner, Chesterfield Hockey Association, has requested a change in zoning from the "M3" Planned Industrial District to a "PC" Planned Commercial District for a 17.85 acre tract of land at 18385 Chesterfield Airport Road, located north of Chesterfield Airport Road and northeast of its intersection with Olive Street Road and northwest of its intersection with Wings of Hope Boulevard; and,

WHEREAS, a Public Hearing was held before the Planning Commission on July 10, 2017; and,

WHEREAS, the Planning Commission, having considered said request, recommended approval of the change of zoning with one amendment; and,

WHEREAS, the Planning and Public Works Committee, having considered said request, recommended approval of the change of zoning request with one amendment; and

WHEREAS, the City Council, having considered said request with one amendment by Planning and Public Works Committee, voted on September 18, 2017 to approve the change of zoning request with one amendment; and

WHEREAS, the City Attorney on September 18, 2017 has recommended one amendment; and

WHEREAS, the City Council, having considered said request with one amendment by the City Attorney voted on October 2, 2017 to approve the change of zoning request with one amendment.

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

Page 3 of 20

the City of Chesterfield at least seven (7) business days in advance

B. FLOOR AREA, HEIGHT, BUILDING AND PARKING STRUCTURE REQUIREMENTS

Height

a. The maximum height of the building, exclusive of roof screening, shall not exceed forty-five (45) feet.

Building Requirements

a. A minimum of thirty-five percent (35%) openspace is required for each lot within this development.

b. This development shall have a maximum F.A.R. of 0.55.

C. SETBACKS

Structure Setbacks

No building or structure, other than: a freestanding project identification sign, light standards, or flag poles will be located within the following setbacks:

a. Thirty (30) feet from the southern boundary of this district.

b. Thirty (30) feet from the northern boundary of this district c. Thirty (30) feet from the eastern boundary of this district.

d. Ten (10) feet from the western boundary of this district.

e. Ten (10) feet from the interior boundary lines within this district.

2. Parking Setbacks

No parking stall, loading space, internal driveway, or roadway, except points of ingress or egress, will be located within the following

a. Thirty (30) feet from the southern boundary of this district.

b. Thirty (30) feet from the northern boundary of this district.

c. Thirty (30) feet from the eastern boundary of this district.

NOW THEREFORE BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, AS FOLLOWS:

Section 1. City of Chesterfield Unified Development Code and the Official Zoning District Map, which are part thereof, are hereby amended by establishing a "PC" Planned Commercial District for a 17.85 acre tract of land located at 18385 Chesterfield Airport Road and as described as follows:

A TRACT OF LAND BEING PART OF LOT 3 OF THE "NICHOLAS MUELLER ESTATE" AS RECORDED IN PLAT BOOK 2, PAGE 25 AND LOCATED IN U.S. SURVEY 371 AND PART OF U.S. SURVEY 102, TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE 5TH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A STONE IN THE SOUTH LINE OF LOT 3 OF THE NICHOLAS MUELLER ESTATE, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK 2 PAGE 25 OF THE SAINT LOUIS COUNTY RECORDS, SAID POINT BEING THE SOUTHEAST CORNER OF PROPERTY CONVEYED TO GENEVIEVE E. SCHNARR, NORTH 12 DEGREES 15 MINUTES 59 SECONDS WEST, 823.42 FEET TO AN IRON ROD IN THE SOUTHERN LINE OF STATE HIGHWAY 40 (NOW KNOWN AS 1-64) AS DESCRIBED IN CAUSE NO. 290860 OF THE CIRCUIT COURT OF SAINT LOUIS COUNTY, MISSOURI AND RECORDED IN DEED BOOK 6343, PAGE 824; THENCE ALONG SAID SOUTHERN LINE THE FOLLOWING: IN AN EASTERLY DIRECTION ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 3014.79 FEET, AN ARC LENGTH OF 682.52 FEET, THE CHORD OF WHICH BEARS SOUTH 77 DEGREES 28 MINUTES 50 SECONDS EAST, A CHORD DISTANCE OF 681.06 FEET TO AN IRON ROD; THENCE SOUTH 83 DEGREES 57 MINUTES 58 SECONDS EAST, 122.32 FEET TO AN IRON ROD; THENCE NORTH 12 DEGREES 11 MINUTES 22 SECONDS WEST, 10.53 FEET TO AN IRON ROD; THENCE SOUTH 83 DEGREES 57 MINUTES 58 SECONDS EAST, 722.60 FEET TO AN IRON ROD; THENCE LEAVING SAID SOUTHERN LINE SOUTH 12 DEGREES 01 MINUTES 29 SECONDS EAST, 270.42 FEET TO A POINT ON THE AFORESAID SOUTH LINE OF LOT 3; THENCE ALONG SAID SOUTH LINE OF LOT 3 SOUTH 77 DEGREES 51 MINUTES 00 SECONDS WEST. 1384.86 FEET TO A POINT; THENCE LEAVING SAID SOUTH LINE OF LOT 3 SOUTH 12 DEGREES 06 MINUTES 25 SECONDS EAST, 259.87 FEET TO AN IRON ROD ON THE NORTHERN LINE OF CHESTERFIELD AIRPORT ROAD, FORMERLY STATE HIGHWAY 40 T.R.; THENCE ALONG SAID NORTHERN LINE IN A WESTERLY DIRECTION ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 3901.54 FEET AN ARC LENGTH OF 114.13 FEET, THE CHORD OF WHICH BEARS NORTH 58 DEGREES 00 MINUTES 03 SECONDS WEST, A

d. Ten (10) feet from the western boundary of this district.

e. Zero (0) feet from the interior boundary lines within this district.

1. Parking and loading spaces for this development will be as required

2. No construction related parking shall be permitted within right of way

The development shall adhere to the Landscape and Tree Preservation

1. Signs shall be permitted in accordance with the regulations of the City

planned district. Sign Packages shall adhere to the City Codc.

considerations prior to installation or construction.

and as directed by the City of Chesterfield.

2. Ornamental Entrance Monument construction, if proposed, shall be

1. Provide a lighting plan and cut sheet in accordance with the City of

2. Street lights shall be provided along the proposed Olive Street Road

1. The development shall adhere to the Architectural Review Standards

of the City of Chesterfield Unified Development Code.

in accordance with the City of Chesterfield Unified Development Code

of Chesterfield Code or a Sign Package may be submitted for the

reviewed by the City of Chesterfield, and/or the St. Louis County

Department of Transportation (or MoDOT), for sight distance

or any existing roadways. All construction related parking shall be

Page 4 of 20

P. Z. 09-2017 18385 Chesterfield Airport Road

Planning & Public Works Committee 08/24/2017

D. PARKING AND LOADING REQUIREMENTS

in the City of Chesterfield Code.

Parking lots shall not be used as streets.

Requirements of the City of Chesterfield Code.

confined to the development.

E. LANDSCAPE AND TREE REQUIREMENTS

F. SIGN REQUIREMENTS

G. LIGHT REQUIREMENTS

H. ARCHITECTURAL

Chesterfield Code.

(Chesterfield Hockey Association

Planning Commission 8/14/201

CHORD DISTANCE OF 114.12 FEET TO AN IRON ROD; THENCE LEAVING SAID NORTHERN LINE NORTH 12 DEGREES 07 MINUTES 26 SECONDS WEST 180.38 FEET TO A POINT OF BEGINNING AND CONTAINING 777,604 SQUARE FEET OR 17.851 ACRES MORE OR LESS AS PER A SURVEY BY STOCK & ASSOCIATES CONSULTING ENGINEERS, INC. DURING THE MONTH OF APRIL 2017.

Section 2. The preliminary approval, pursuant to the City of Chesterfield Unified Development Code, is granted subject to all of the ordinances, rules and regulations and the specific conditions as recommended by the Planning Commission in its recommendation to the City Council, which are set out in the "Attachment A" and the preliminary plan indicated as "Attachment B" which is attached hereto as and made part of.

Section 3. The City Council, pursuant to the petition filed by Chesterfield Hockey Association in P.Z. 09-2017, requesting the amendment embodied in this ordinance, and pursuant to the recommendation of the City of Chesterfield Planning Commission that said petition be granted and after a public hearing, held by the Planning Commission on the 10th day of July 2017, does hereby adopt this ordinance pursuant to the power granted to the City of Chesterfield under Chapter 89 of the Revised Statutes of the State of Missouri authorizing the City Council to exercise legislative power pertaining to planning and zoning. Section 4. This ordinance and the requirements thereof are exempt from

Chesterfield Unified Development Code. Section 5. This ordinance shall be in full force and effect from and after its passage and approval.

the warning and summons for violations as set out in Section 8 of the City of

Passed and approved this 2

PRESIDING OFFICER

P. Z. 09-2017 18385 Chesterfield Airport Road

Planning & Public Works Committee 08/24/2017

Bob Nation, MAYOR

ATTEST: Vickie Haso Vickie Hass, CITY CLERK

(Chesterfield Hockey Association

Planning Commission 8/14/2017

FIRST READING HELD: 9/18/2017

Page 5 of 20

City Council 09/18/2017 & 10/02/2017 2. Trash enclosures: All exterior trash areas will be enclosed with a minimum six (6) foot high sight-proof enclosure complemented by adequate landscaping. The location, material, and elevation of any trash enclosures will be as approved by the City of Chesterfield on the Site Development Plan.

I. ACCESS/ACCESS MANAGEMENT

1. Access to the development shall be as shown on the Preliminary Site Plan attached hereto as Attachment "B" and adequate sight distance shall be provided, as directed by the City of Chesterfield, the Missouri Department of Transportation and St. Louis County Department of Transportation, as applicable.

2. If adequate sight distance cannot be provided at the access location(s), acquisition of right of way, reconstruction of pavement and other offsite improvements may be required to provide the required sight distance as required by the City of Chesterfield and the agency in control of the right of way off which the access is proposed.

3. Access to this development from Chesterfield Airport Road shall be as directed by the Saint Louis County Department of Transportation. Cross-access easements shall be provided as necessary to allow for access through the adjacent property to Chesterfield Airport Road.

4. Provide cross-access easements as needed to the parcels to the south, east, and to the west as directed by the City of Chesterfield.

5. If any public roads are proposed within this development, the roads shall be designed to meet the current American Association of State and Highway Transportation Officials (AASHTO) Manual requirements and as directed by the Saint Louis County Department

6. Installation of landscaping and ornamental entrance monument or identification signage construction shall be reviewed by the Saint Louis County Department of Transportation for sight distance consideration and approved prior to installation or construction.

7. Upon connection of the Olive Street Road extension from Chesterfield Airport Road to the west, to Spirit of St. Louis Blvd to the east, the interim access road connecting to the development to the south shall be restricted at either its northern (south side of the new Olive Street P. Z. 09-2017 18385 Chesterfield Airport Road Page 1 of 20 (Chesterfield Hockey Associatio Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

ATTACHMENT A

All provisions of the City of Chesterfield City Code shall apply to this development except as specifically modified herein.

I. SPECIFIC CRITERIA

A. PERMITTED USES

1. The uses allowed in this "PC" Planned Commercial District shall be:

 a. Animal grooming service b. Art gallery

c. Art studio

d. Auditorium

e. Bakery

 f. Banquet facility g. Bar

h. Barber- or beauty shop

i. Bowling center

j. Brewpub k. Coffee shop

College/university

m. Drugstore and pharmacy

 Dry-cleaning establishment o. Financial institution, no drive-through

p. Grocery, community

q. Grocery, neighborhood

Planning & Public Works Committee 08/24/2017

City Council 09/18/2017 & 10/02/2017

r. Laundromat

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association) Planning Commission 8/14/2017

Road extension) or southern (north side of Chesterfield Airport Road)

Page 6 of 20

J. PUBLIC/PRIVATE ROAD IMPROVEMENTS, INCLUDING PEDESTRIAN

1. Any request to install a gate at the entrance to this development must be approved by the City of Chesterfield and the agency in control of the right of way off of which the entrance is constructed. No gate installation will be permitted on public right of way.

2. If a gate is installed on a street in this development, the streets within the development, or that portion of the development that is gated, shall be private and remain private forever.

3. Provide street connections to the adjoining properties as directed by the City of Chesterfield. Stub street signage, in conformance with Article 04-09 of the Unified Development Code of the City of Chesterfield, shall be posted within thirty (30) days of the street pavement being placed.

4. Provide a five (5) foot wide sidewalk, conforming to ADA standards, along all frontages of the site. The sidewalk shall provide for future connectivity to adjacent developments and/or roadway projects. The sidewalk may be located within right of way controlled by another agency, if permitted by that agency or on private property within a six (6) foot wide sidewalk, maintenance and utility easement dedicated to the City of Chesterfield.

5. Obtain approvals from the City of Chesterfield, St. Louis County Department of Transportation, and the Missouri Department of Transportation and other entities as necessary for locations of proposed curb cuts and access points, areas of new dedication, and roadway improvements.

6. Additional right of way and road improvements shall be provided, as required by the Missouri Department of Transportation, St. Louis County Department of Transportation, and the City of Chesterfield.

7. Any work within MoDOT's right of way will require a MoDOT permit.

8. The petitioner shall provide adequate detention and / or hydraulic calculations for review and approval of all storm water that will affect MoDOT right of way.

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association) Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

> s. Office - dental t. Office - general

u. Office – medical

v. Recreation facility w. Restaurant-fast-food

x. Restaurant-sit-down

z. Retail sales establishment-community

aa. Retail sales establishment-neighborhood bb. Self-storage facility

cc. Specialized private school

dd. Theater, indoor

ee. Theater, outdoor

ff. Veterinary clinic gg. Vocational school

hh. Vocational school with outdoor training

ii. Warehouse, general

2. All outdoor storage and / or outdoor sales activity shall be prohibited within this development.

3. All drive through uses shall be prohibited within this development.

4. Hours of Operation

a. Uses "m", "p", "q", "z", and "aa" listed above are considered retail uses and retail sales, with respect to those uses, will be subject to hours of operation from 6:00 AM to 11:00 PM. Hours of operation for said uses may be expanded for Thanksgiving Day and the day after Thanksgiving upon review and approval of a Special Activities Permit, signed by the property owner and submitted to

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association) Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

City Council 09/18/2017 & 10/02/2017 9. All proposed work in MoDOT right of way must comply with MoDOT standards, specifications, conform to MoDOT's Access Management Guidelines with detailed construction plans being received and approved by MoDOT.

10. Due to the close proximity to Interstate 64, sound mitigation is the responsibility of the owner/developer. MoDOT will not provide any noise mitigation measures for this development.

11. Prior to Special Use Permit issuance by the Saint Louis County Department of Transportation, a special cash escrow or a special escrow supported by an Irrevocable Letter of Credit, must be established with the Saint Louis County Department of Transportation to guarantee completion of the required roadway

employees. Parking on non-surfaced areas shall be prohibited in order to eliminate the condition whereby mud from construction and employee vehicles is tracked onto the pavement causing hazardous roadway and driving conditions. 13. The Olive Street Road extension shall be extended throughout the

12. Provide adequate temporary off-street parking for construction

property as directed by the City of Chesterfield and Saint Louis County Department of Transportation. The typical section of the roadway to be constructed or escrowed, as directed by the Saint Louis County Department of Transportation, shall closely follow the Saint Louis County Standard Drawing C203.68. The right-of-way dedicated shall reflect the potential for a five (5) lane expansion per St. Louis County Standard Drawing C203.66 along with any easement required for future traffic control installations.

K. TRAFFIC STUDY

1. Provide a traffic study as directed by the City of Chesterfield and/or St. Louis County Department of Transportation. The developer's additional road improvement obligation and traffic signal improvements shall be as determined by the approved study. The scope of the study shall include internal and external circulation and may be limited to site specific impacts, such as the need for additional lanes, entrance configuration, geometrics, sight distance, traffic signal modifications or other improvements required, as long as the density of the proposed development falls within the parameters of the City's traffic model. Should the density be other than the density

PREPARED FOR:

CHESTERFIELD HOCKEY ASSOCIATION, INC. THE STAENBERG GROUP 2199 INNERBELT BUSINESS CENTER 2127 INNERBELT BUSINESS CENTER DR. OVERLAND, MO 63114 SUITE 310

ST. LOUIS, MO 63114

City of Chesterfield, MO

Vickie Hass, City Clerk City of Chesterfield, MO

ASSOCIATES

₩ **>** Ni () 0

DATE: GEORGE MICHAEL STOCK

GEORGE M. STOCK E-25116 CIVIL ENGINEER
CERTIFICATE OF AUTHORITY
NUMBER: 000996

REVISIONS: 04-11-18 MEETING WITH 04-23-18 CITY COMMENTS 05-21-18 CITY COMMENTS 06-22-18 CITY COMMENTS 06-26-18 CITY COMMENTS 06-29-18 PLANNING

03/01/2018 JOB NO.: 215-5542.2

MO-00 **DETAILS &** ORDINANCE

COMMISSION

BASE MAP # 17W2 H&T S.U.P.

SHEET NO .:

SDSP-2.0

L. POWER OF REVIEW

City Council 09/18/2017 & 10/02/2017

Either Councilmember of the Ward where a development is proposed or the Mayor may request that the plan for a development be reviewed and approved by the entire City Council. This request must be made no later than twenty-four (24) hours after Planning Commission review. The City Council will then take appropriate action relative to the proposal. The plan for a development, for purposes of this section, may include the site development plan, site development section plan, site development concept plan, landscape plan, lighting plans, architectural elevations, sign package or any amendment thereto.

M. STORM WATER

- 1. The site shall provide for the positive drainage of storm water and it shall be discharged at an adequate natural discharge point or connected to an adequate piped system.
- 2. Detention/retention and channel protection measures are to be provided in each watershed as required by the City of Chesterfield. The storm water management facilities shall be operational prior to paving of any driveways or parking areas in non-residential development or issuance of building permits exceeding sixty percent (60%) of approved dwelling units in each plat, watershed or phase of residential developments. The location and types of storm water management facilities shall be identified on the Site Development
- 3. Emergency overflow drainage ways to accommodate runoff from the 100-year storm event shall be provided for all storm sewers, as directed by the City of Chesterfield.

P. Z. 09-2017 18385 Chesterfield Airport Road Page 13 of 20 (Chesterfield Hockey Association Planning Commission 8/14/2017

City Council 09/18/2017 & 10/02/2017 least one (1) foot above the base flood elevation. Consult Article 5 of the Unified Development Code for specific requirements.

- 8. Streetlights shall be required along public right of way frontage.
- 9. The developer is advised that utility companies will require compensation for relocation of their facilities within public road rightof-way. Utility relocation cost shall not be considered as an allowable credit against the petitioner's traffic generation assessment contributions. The developer should also be aware of extensive delays in utility company relocation and adjustments. Such delays will not constitute a cause to allow occupancy prior to completion of road
- II. TIME PERIOD FOR SUBMITTAL OF SITE DEVELOPMENT CONCEPT PLANS AND SITE DEVELOPMENT PLANS
- A. The developer shall submit a concept plan within eighteen (18) months of City Council approval of the change of zoning.
- B. In lieu of submitting a Site Development Concept Plan and Site Development Section Plans, the petitioner may submit a Site Development Plan for the entire development within eighteen (18) months of the date of approval of the change of zoning by the City.
- C. Failure to comply with these submittal requirements will result in the expiration of the change of zoning and will require a new public hearing.
- D. Said Plan shall be submitted in accordance with the combined requirements for Site Development Section and Concept Plans. The submission of Amended Site Development Plans by sections of this project to the Planning Commission shall be permitted if this option is utilized.
- E. Where due cause is shown by the developer, the City Council may extend the period to submit a Site Development Concept Plan or Site Development Plan for eighteen (18) months.

III. COMMENCEMENT OF CONSTRUCTION

Planning & Public Works Committee 08/24/2017

- A. Substantial construction shall commence within two (2) years of approval of the Site Development Concept Plan or Site Development Plan, unless otherwise authorized by ordinance.
- B. Where due cause is shown by the developer, the City Council may extend the period to commence construction for two (2) additional years.

P. Z. 09-2017 18385 Chesterfield Airport Road Page 9 of 20 (Chesterfield Hockey Associatio Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

City Council 09/18/2017 & 10/02/2017

- 4. Offsite storm water shall be picked up and piped to an adequate natural discharge point. Such bypass systems must be adequately
- 5. The lowest opening of all structures shall be set at least two (2) feet higher than the one hundred (100) year high water elevation in detention/retention facilities. All structures shall be set at least thirty (30) feet horizontally from the limits of the one hundred (100) year
- 6. Locations of site features such as lakes and detention ponds must be approved by the City of Chesterfield and the Metropolitan St. Louis
- 7. The developer shall be responsible for construction of any required storm water improvements per the Chesterfield Valley Master Storm Water Plan, as applicable, and shall coordinate with the owners of the properties affected by construction of the required improvements. In the event that the ultimate required improvements cannot be constructed concurrently with this development, the developer shall provide interim drainage facilities and establish sufficient escrows as guarantee of future construction of the required improvements, including removal of interim facilities. Interim facilities shall be sized to handle runoff from the 100-year, 24-hour storm event as produced by the Master Storm Water Plan model. The interim facilities shall provide positive drainage and may include a temporary pump station, if necessary. Interim facilities shall be removed promptly after the permanent storm water improvements are constructed.
- 8. The developer may elect to propose alternate geometry, size and/or type of storm water improvements that are functionally equivalent to the required improvements per the Chesterfield Valley Master Storm Water Plan. Functional equivalence is said to be achieved when, as determined by the Director of Public Works, the alternate proposal provides the same hydraulic function, connectivity, and system-wide benefits without adversely affecting any of the following: water surface profiles at any location outside the development; future capital expenditures; maintenance obligations; equipment needs; frequency of maintenance; and probability of malfunction. The City will consider, but is not obligated to accept, the developer's alternate plans. If the Director of Public Works determines that the developer's proposal may be functionally equivalent to the Chesterfield Valley Master Storm Water Plan improvements, hydraulic routing calculations will be performed to make a final determination of

P. Z. 09-2017 18385 Chesterfield Airport Road Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

IV.GENERAL CRITERIA

City Council 09/18/2017 & 10/02/2017

- A. SITE DEVELOPMENT CONCEPT PLAN
- 1. Any Site Development Concept Plan shall show all information required on a preliminary plat as required in the City of Chesterfield
- 2. Include a Conceptual Landscape Plan in accordance with the City of Chesterfield Code to indicate proposed landscaping along arterial and

Page 14 of 20

- 3. Include a Lighting Plan in accordance with the City of Chesterfield Code to indicate proposed lighting along arterial collector roadways.
- 4. Provide comments/approvals from the appropriate Fire District, the St. Louis County Department of Transportation, Monarch Chesterfield Levee District, Spirit of St. Louis Airport and the Missouri Department of Transportation.
- 5. Compliance with the current Metropolitan St. Louis Sewer District Site Guidance as adopted by the City of Chesterfield.

B. SITE DEVELOPMENT PLAN SUBMITTAL REQUIREMENTS

The Site Development Plan shall include, but not be limited to, the

- 1. Location map, north arrow, and plan scale. The scale shall be no greater than one (1) inch equals one hundred (100) feet.
- Outboundary plat and legal description of property.
- 3. Density calculations.
- 4. Parking calculations. Including calculation for all off street parking spaces, required and proposed, and the number, size and location for handicap designed.
- 5. Provide openspace percentage for overall development including separate percentage for each lot on the plan
- 6. Provide Floor Area Ratio (F.A.R.).
- 7. A note indicating all utilities will be installed underground.

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

City Council 09/18/2017 & 10/02/2017

functional equivalence. The Director will consider the developer's proposal, but is not obligated to have the hydraulic analysis performed if any of the other criteria regarding functional equivalence will not be met. The hydraulic routing calculations regarding functional equivalence may be performed by a consultant retained by the City of Chesterfield. The developer shall be responsible for all costs related to consideration of an alternate proposal, which shall include any costs related to work performed by the consultant.

Page 10 of 20

- 9. The developer shall provide all necessary Chesterfield Valley Storm Water Easements to accommodate future construction of the Chesterfield Valley Master Storm Water Plan improvements, and depict any and all Chesterfield Valley Master Storm Water Plan improvements on the Site Development Plan(s) and Improvement Plans. Maintenance of the required storm water improvements shall be the responsibility of the property owner unless otherwise noted.
- 10. All Chesterfield Valley Master Storm Water Plan improvements, as applicable, shall be operational prior to the paving of any driveways or parking areas unless otherwise approved.
- 11. The proposed development is within 1,000 feet of the levee. Design plans and construction documents shall be submitted to the Monarch-Chesterfield Levee District for review. All site improvements are subject to review and approval by the St. Louis District Corps of Engineers. That determination is made by the Corps of Engineers.
- 12. Formal MSD review, approval, and permits are required prior to construction. Approval from the Monarch Chesterfield Levee District indicating that the final plans conform to their master conveyance plan will be required prior to formal MSD plan approval.
- 13. Post Construction Best Management Practices (BMPs) are required to treat the extents of the project's disturbed area. Areas appear to be identified on the plan for BMPs, however the actual types of BMPs to be utilized are not indicated. As a new development site, BMPs with a volume reduction component (such as bioretention, pervious pavements, etc.) are necessary. It is recommended that geotechnical investigation be conducted in order to determine the depth to the seasonal high water table and alluvial sand layer, as these two factors will influence BMP design and performance. MSD will review and comment on the details of these facilities during formal plan review.

Page 15 of 20

- A note indicating signage approval is separate process.
- 9. Depict the location of all buildings, size, including height and distance from adjacent property lines, and proposed use.
- 10. Specific structure and parking setbacks along all roadways and
- 11. Indicate location of all existing and proposed freestanding monument
- 12. Zoning district lines, subdivision name, lot number, dimensions, and area, and zoning of adjacent parcels where different than site.
- Floodplain boundaries.

P. Z. 09-2017 18385 Chesterfield Airport Road

City Council 09/18/2017 & 10/02/2017

Planning & Public Works Committee 08/24/2017

Planning Commission 8/14/2017

- as directed. Improvements include, but are not limited to, roadways, driveways and walkways adjacent to and across the street from the site, significant natural features, such as wooded areas and rock formations, and other karst features that are to remain or be removed.
- 15. Depict all existing and proposed easements and rights-of-way within 150 feet of the site and all existing or proposed off-site easements and rights-of-way required for proposed improvements.
- 16. Indicate the location of the proposed storm sewers, detention basins,
- 17. Depict existing and proposed contours at intervals of not more than one (1) foot, and extending 150 feet beyond the limits of the site as
- 19. Comply with all preliminary plat requirements of the City of Chesterfield Subdivision Regulations per the City of Chesterfield
- 20. Signed and sealed in conformance with the State of Missouri and Land Surveyors requirements.

P. Z. 09-2017 18385 Chesterfield Airport Road Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

P. Z. 09-2017 18385 Chesterfield Airport Road

Planning & Public Works Committee 08/24/2017

14. The project is located within the Caulks Creek Impact area, and

1. Sanitary Sewers shall be as approved by the City of Chesterfield and

2. Sanitary service is shown on the plan and is proposed to connect to

the Valley Village Pump Station. That pump station's capacity will

need to be evaluated by the developer's engineering consultant during

formal plan review to assess its ability to accommodate this

development as well as the properties it already serves. Upgrades to

the pump station and/or additional storage will be required if the

development cannot be served within its current level of service.

Additional offsite easements may be necessary if warranted improvements cannot be accomplished within the limits of existing

Prior to Site Development Plan approval, provide a geotechnical report,

prepared by a registered professional engineer licensed to practice in the

State of Missouri, as directed by the City of Chesterfield. The report shall

verify the suitability of grading and proposed improvements with soil and

geologic conditions and address the existence of any potential sinkhole,

ponds, dams, septic fields, etc., and recommendations for treatment. A

statement of compliance, signed and sealed by the geotechnical engineer

preparing the report, shall be included on all Site Development Plans and

2. Public art work shall be provided and installed by the Developer in

3. An opportunity for recycling will be provided. All provisions of Chapter

this development. General areas where public art may be placed shall

be indicated on the appropriate Site Development Plan. The specific

details for the public art, such as location, size, placement, type, etc.,

25, Article VII, and Section 25-122 thru Section 25-126 of the City

assessed and collected during formal plan review.

the Metropolitan St. Louis Sewer District.

subject to the Caulks Creek Surcharge. The surcharge will be

(Chesterfield Hockey Association

Planning Commission 8/14/2017

N. SANITARY SEWER

O. GEOTECHNICAL REPORT

Improvement Plans.

All utilities will be installed underground

shall be approved by the City of Chesterfield.

Code shall be required where applicable.

P. MISCELLANEOUS

City Council 09/18/2017 & 10/02/2017

21. Provide comments/approvals from the appropriate Fire District, Monarch Levee District, Spirit of St. Louis Airport, Metropolitan St. Louis Sewer District (MSD) and the Missouri Department of Transportation.

Page 11 of 20

Page 16 of 20

- 22. Compliance with Sky Exposure Plane.
- 23. Compliance with the current Metropolitan St. Louis Sewer District Site Guidance as adopted by the City of Chesterfield.
- C. SITE DEVELOPMENT SECTION PLAN SUBMITTAL REQUIREMENTS

The Site Development Section Plan shall adhere to the above criteria and to the following:

- 1. Location map, north arrow, and plan scale. The scale shall be no greater than one (1) inch equals one hundred (100) feet.
- 2. Parking calculations. Including calculation for all off street parking spaces, required and proposed, and the number, size and location for handicap designed.
- 3. Provide openspace percentage for overall development including separate percentage for each lot on the plan
- 4. Provide Floor Area Ratio (F.A.R.).
- 5. A note indicating all utilities will be installed underground.
- 6. A note indicating signage approval is separate process.
- 7. Depict the location of all buildings, size, including height and distance from adjacent property lines and proposed usc.
- 8. Specific structure and parking setbacks along all roadways and property lines.
- 9. Indicate location of all existing and proposed freestanding monument
- 10. Zoning district lines, subdivision name, lot number, lot dimensions, lot area, and zoning of adjacent parcels where different than site.
- 11. Floodplain boundaries.

City Council 09/18/2017 & 10/02/2017

the Chesterfield Valley area.

P. Z. 09-2017 18385 Chesterfield Airport Road Page 19 of 20 (Chesterfield Hockey Association Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

The primary water line contribution is based on gross acreage of the development land area. The contribution shall be a sum of \$916.54 per acre for the total area as approved on the Site Development Plan to be used

solely to help defray the cost of constructing the primary water line serving

The primary water line contribution shall be deposited with the Saint Louis County Department of Transportation. The deposit shall be made before Saint Louis County approval of the Site Development Plan unless otherwise directed by the Saint Louis County Department of Transportation. Funds shall be payable to Treasurer, Saint Louis County.

F. STORM WATER

The storm water contribution is based on gross acreage of the development land area. These funds are necessary to help defray the cost of engineering and construction improvements for the collection and disposal of storm water from the Chesterfield Valley in accordance with the Master Plan on file with and jointly approved by Saint Louis County and the Metropolitan St. Louis Sewer District. The amount of the storm water contribution will be computed based on \$2,907.99 per acre for the total area as approved on the Site Development Plan.

The storm water contributions to the Trust Fund shall be deposited with the Saint Louis County Department of Transportation. The deposit shall be made prior to the issuance of a Special Use Permit (S.U.P.) by Saint Louis County Department of Transportation or prior to the issuance of building permits in the case where no Special Use Permit is required. Funds shall be payable to Treasurer, Saint Louis County.

G. SANITARY SEWER

- 1. The sanitary sewer contribution is collected as the Caulks Creek
- 2. The sanitary sewer contribution within Chesterfield Valley area shall be deposited with the Metropolitan St. Louis Sewer District as required by the District.

H. RECORDING

Within sixty (60) days of approval of any development plan by the City of Chesterfield, the approved Plan will be recorded with the St. Louis County P. Z. 09-2017 18385 Chesterfield Airport Road Page 12 of 20 (Chesterfield Hockey Association Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

- 4. Road improvements and right of way dedication shall be completed prior to the issuance of an occupancy permit. If development phasing is anticipated, the developer shall complete road improvements, right of way dedication, and access requirements for each phase of development as directed by the City of Chesterfield and Saint Louis County Department of Transportation. Delays due to utility relocation and adjustments will not constitute a cause to allow occupancy prior to completion of road improvements.
- 5. Prior to record plat approval, the developer shall cause, at his expense and prior to the recording of any plat, the reestablishment, restoration or appropriate witnessing of all Corners of the United States Public Land Survey located within, or which define or lie upon, the out boundaries of the subject tract in accordance with the Missouri Minimum Standards relating to the preservation and maintenance of the United States Public Land Survey Corners, as necessary.
- 6. Prior to final release of subdivision construction deposits, the developer shall provide certification by a registered land surveyor that all monumentation depicted on the record plat has been installed and United States Public Land Survey Corners have not been disturbed during construction activities or that they have been reestablished and the appropriate documents filed with the Missouri Department of Natural Resources Land Survey Program, as necessary.
- 7. If any development in, or alteration of, the floodplain is proposed, the developer shall submit a Floodplain Study and Floodplain Development Permit/Application to the City of Chesterfield for approval. The Floodplain Study must be approved by the City of Chesterfield prior to the approval of the Site Development Plan, as directed. The Floodplain Development Permit must be approved prior to the approval of a grading permit or improvement plans. If any change in the location of the Special Flood Hazard Area is proposed, the Developer shall be required to obtain a Letter of Map Revision (LOMR) from the Federal Emergency Management Agency. The LOMR must be issued by FEMA prior to the final release of any escrow held by the City of Chesterfield for improvements in the development. Elevation Certificates will be required for any structures within the Special Flood Hazard Area or the Supplemental Protection Area. All new roads within and adjacent to this site shall be constructed at least one (1) foot above the base flood elevation of the Special Flood Hazard Area. Improvements to existing roadways shall be required as necessary to provide at least one access route to each lot that is at

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association) Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017 City Council 09/18/2017 & 10/02/2017

Page 17 of 20

- 12. Depict existing and proposed improvements within 150 feet of the site as directed. Improvements include, but are not limited to, roadways, driveways and walkways adjacent to and across the street from the site, significant natural features, such as wooded areas and rock formations, and other karst features that are to remain or be
- 13. Depict all existing and proposed easements and rights-of-way within 150 feet of the site and all existing or proposed off-site easements and rights-of-way required for proposed improvements.
- 14. Indicate the location of the proposed storm sewers, detention basins, sanitary sewers and connection(s) to the existing systems.
- 15. Depict existing and proposed contours at intervals of not more than one (1) foot, and extending 150 feet beyond the limits of the site as
- 16. Address trees and landscaping in accordance with the City of Chesterfield Code. 17. Comply with all preliminary plat requirements of the City of
- Chesterfield Subdivision Regulations per the City of Chesterfield 18. Signed and sealed in conformance with the State of Missouri Department of Economic Development, Division of Professional

Registration, Missouri Board for Architects, Professional Engineers

- and Land Surveyors requirements. 19. Provide comments/approvals from the appropriate Fire District, Monarch Levee District, Spirit of St. Louis Airport, St. Louis Department of Highways and Traffic, Metropolitan St. Louis Sewer District (MSD) and the Missouri Department of Transportation.
- 20. Compliance with Sky Exposure Planc.
- 21. Compliance with the current Metropolitan St. Louis Sewer District Site Guidance as adopted by the City of Chesterfield.

V. TRUST FUND CONTRIBUTION

A. The developer shall be required to contribute a Traffic Generation Assessment contribution to the Chesterfield Valley Trust Fund (No. 556).

P. Z. 09-2017 18385 Chesterfield Airport Road (Chesterfield Hockey Association) Planning Commission 8/14/2017 Planning & Public Works Committee 08/24/2017

Recorder of Deeds. Failure to do so will result in the expiration of approval

Page 20 of 20

I. ENFORCEMENT 1. The City of Chesterfield, Missouri will enforce the conditions of this ordinance in accordance with the Plan approved by the City of Chesterfield and the terms of this Attachment A.

2. Failure to comply with any or all the conditions of this ordinance will

of said plan and require re-approval of a plan by the Planning Commission.

- be adequate cause for revocation of approvals/permits by reviewing Departments and Commissions. 3. Non-compliance with the specific requirements and conditions set
- forth in this Ordinance and its attached conditions or other Ordinances of the City of Chesterfield shall constitute an ordinance violation, subject, but not limited to, the penalty provisions as set forth in the City of Chesterfield Code.
- 4. Waiver of Notice of Violation per the City of Chesterfield Code.
- 5. This document shall be read as a whole and any inconsistency to be integrated to carry out the overall intent of this Attachment A.

04-11-18 MEETING WITH 04-23-18 CITY COMMENTS 105-21-18 CITY COMMENTS 06-22-18 CITY COMMENTS 06-26-18 CITY COMMENTS 06-29-18 PLANNING COMMISSION

GEORGE M. STOCK E-25116 CIVIL ENGINEER CERTIFICATE OF AUTHORITY NUMBER: 000996

REVISIONS:

STOCK

-ASSOCIATES

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DATE:

A.L.W. MO-00

ORDINANCE

SDSP-2.1

2199 INNERBELT BUSINESS CENTER OVERLAND, MO 63114

PREPARED FOR:

CHESTERFIELD HOCKEY ASSOCIATION, INC. THE STAENBERG GROUP 2127 INNERBELT BUSINESS CENTER DR. ISUITE 310 ST. LOUIS, MO 63114

14. Depict existing and proposed improvements within 150 feet of the site

- sanitary sewers and connection(s) to the existing systems.
- 18. Address trees and landscaping in accordance with the City of
- Department of Economic Development, Division of Professional Registration, Missouri Board for Architects, Professional Engineers

P. Z. 09-2017 18385 Chesterfield Airport Road Page 18 of 20 Planning & Public Works Committee 08/24/2017

\$2,278/parking space

City Council 09/18/2017 & 10/02/2017 This contribution shall not exceed an amount established by multiplying

the required parking spaces by the following rate schedule: Type of Development Required Contribution Recreational Uses \$524.92/parking space General Office \$759.58/parking space

If types of development differ from those listed, St. Louis County Department of Transportation will provide rates.

If a portion of the improvements required herein are needed to provide for the safety of the traveling public, their completion as a part of this

other items, are not considered allowable credits.

development is mandatory. Allowable credits for required roadway improvements will be awarded as directed by the St. Louis County Department of Transportation and the City of Chesterfield. Sidewalk construction and utility relocation, among

required by the development shall be retained in the appropriate trust C. Road Improvement Traffic Generation Assessment contributions shall be deposited with Saint Louis County Department of Transportation. The deposit shall be made prior to the issuance of a Special Use Permit (S.U.P.) by Saint Louis County Department of Transportation or prior to the issuance of building permits in the case where no Special Use Permit is required. If development phasing is anticipated, the developer shall provide

B. As this development is located within a trust fund area established by

Saint Louis County, any portion of the traffic generation assessment

contribution which remains following completion of road improvements

Treasurer, Saint Louis County. **D.** The amount of all required contributions for roadway, storm water and primary water line improvements, if not submitted by January 1, 2018, shall be adjusted on that date and on the first day of January in each succeeding year thereafter in accordance with the construction cost index

the Traffic Generation Assessment contribution prior to the issuance of

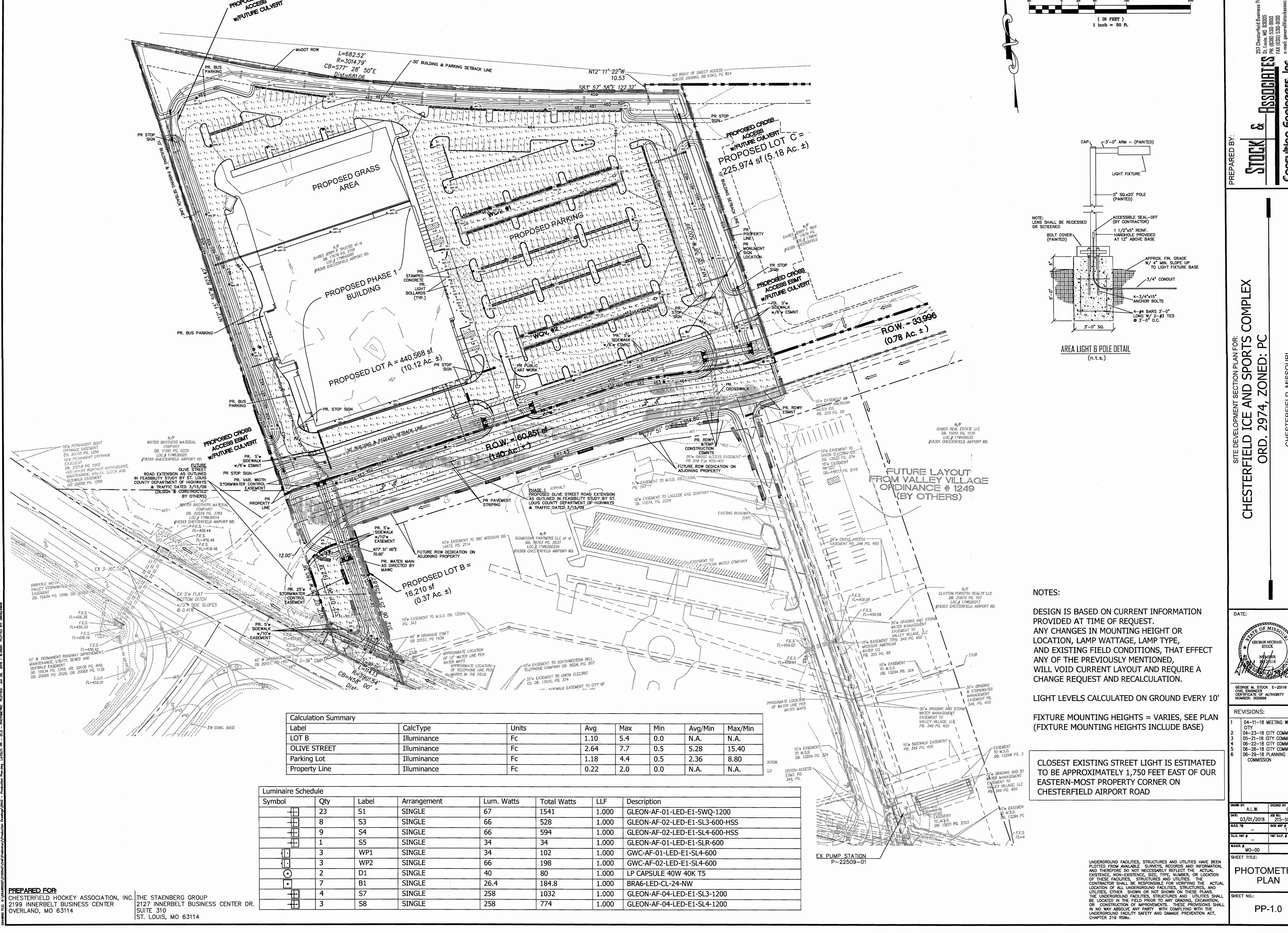
building permits for each phase of development. Funds shall be payable to

as determined by the Saint Louis County Department of Transportation. E. WATER MAIN

(Chesterfield Hockey Association

Planning Commission 8/14/2017

General Retail



GEORGE MICHAEL

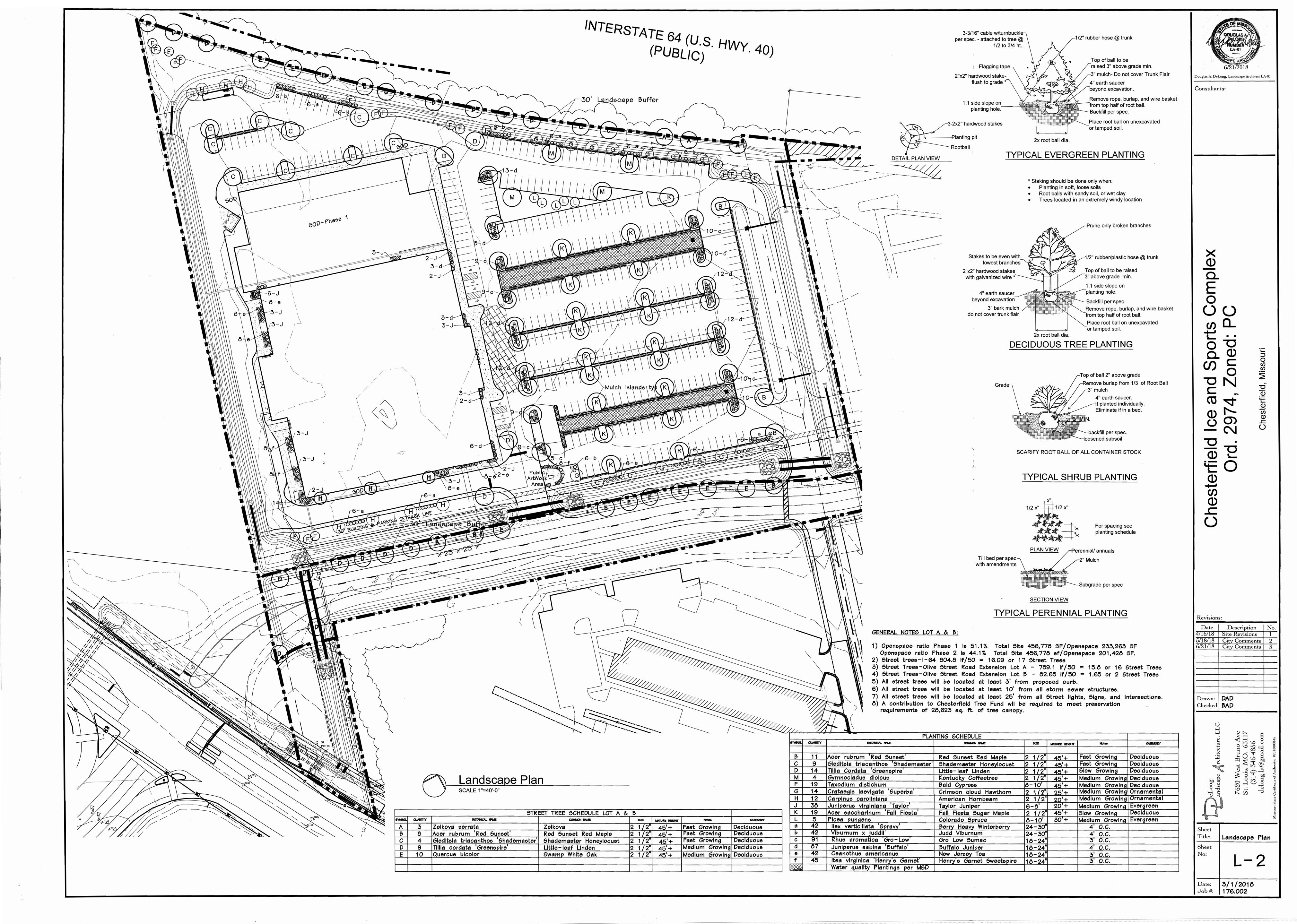
GEORGE M. STOCK E-25116 CIVIL ENGINEER CERTIFICATE OF AUTHORITY NUMBER: 000996

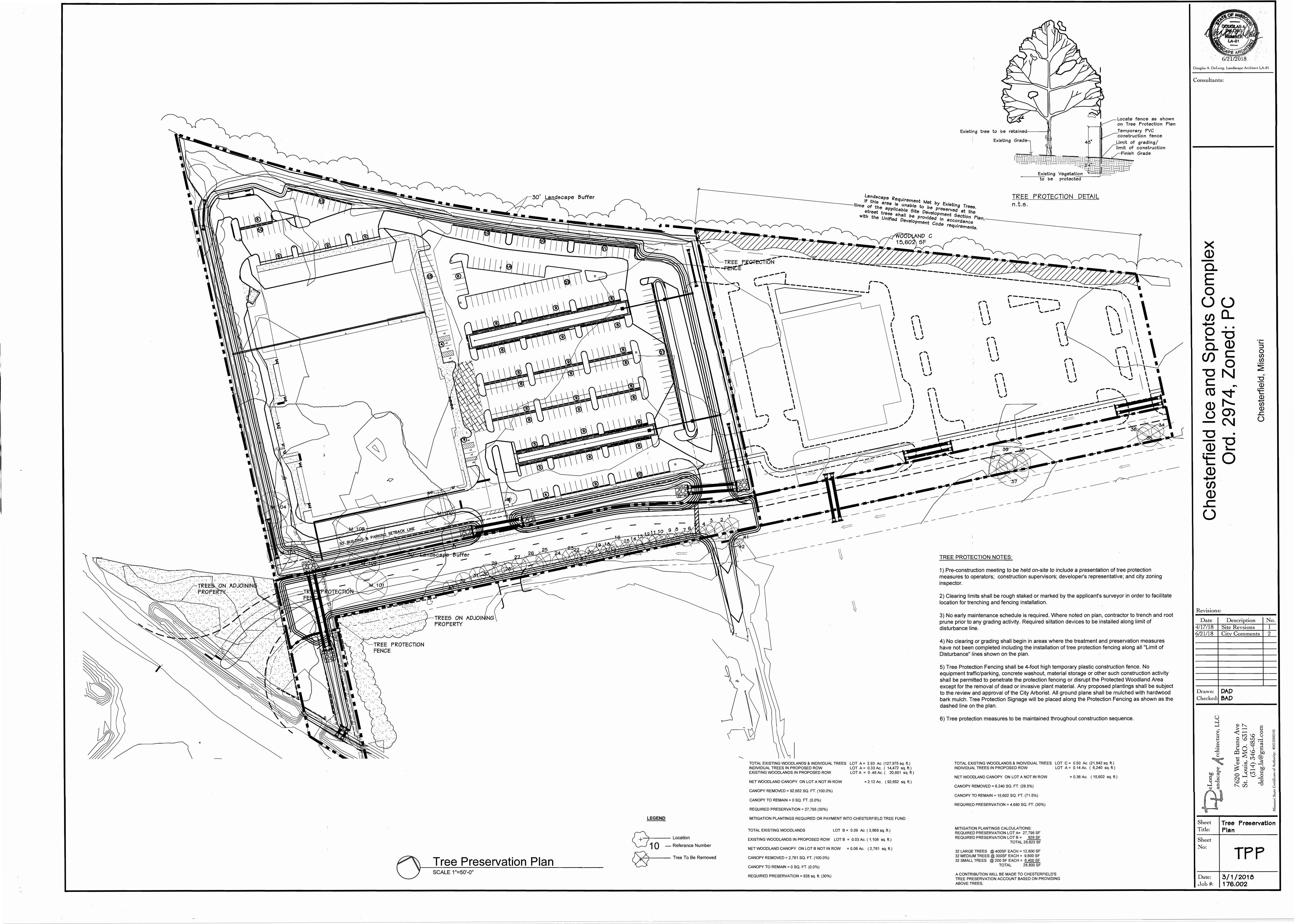
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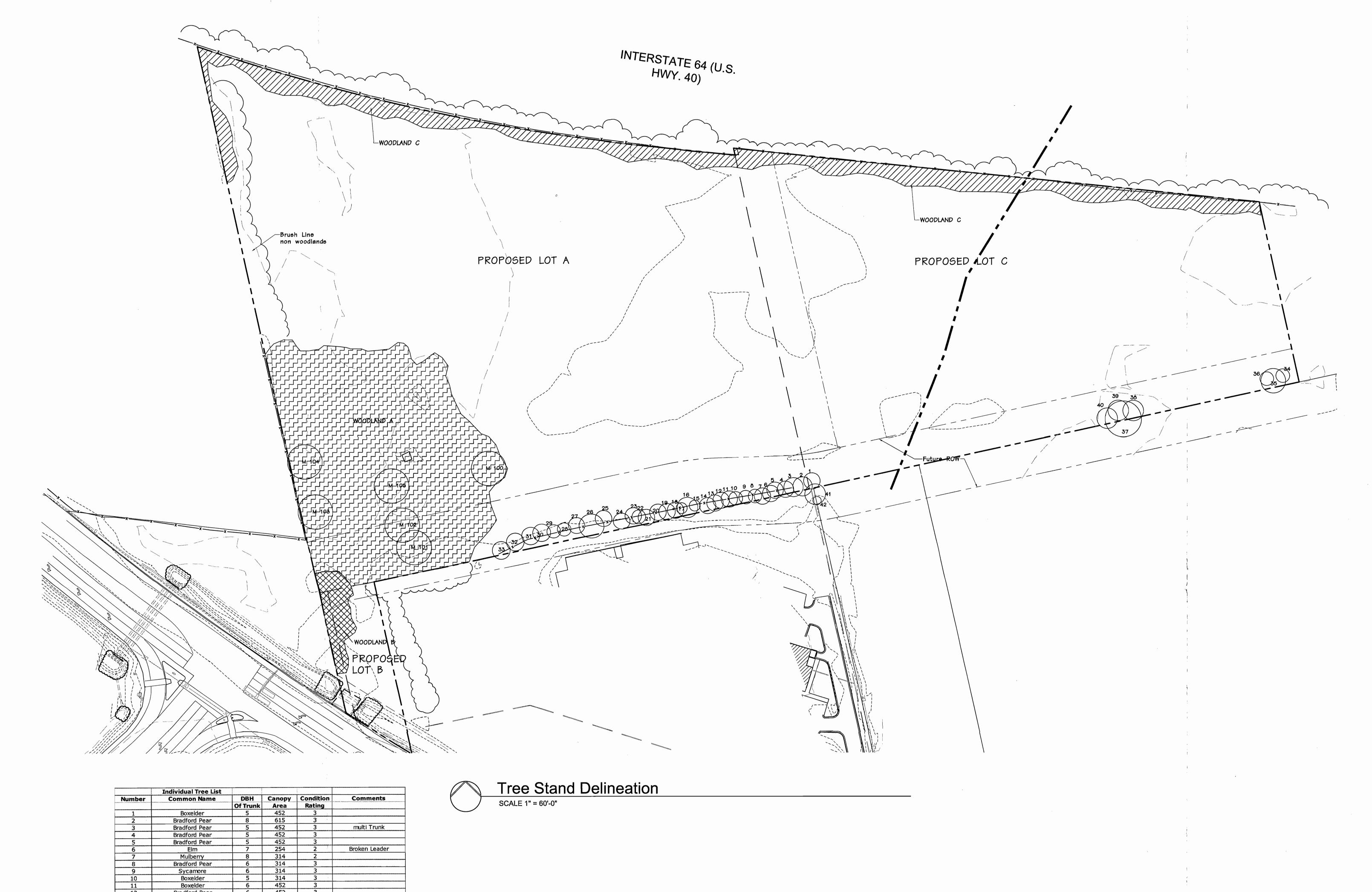
A.L.W. 03/01/2018 03/01/2018 215-5542.2 BASE MAP # 17W2 H&T S.U.P. ≰

PHOTOMETRIC PLAN

PP-1.0







10 452 1

18 452 1 30 706 2 5 200 3 TOTAL 20,712

DBL trunk

DBL trunk

multi Trunk

multi Trunk

Silver Maple

Mulberry

Cottonwood

Mulberry

Mulberry

Mulberry

Mulberry

Cottonwood

Comments 4

109— Reference Number

Dead Tree

The overall lot comprises a total of 15.67 Ac and has a total of 3.5 AC. of Woodlands. The attached detailed Tree Stand Delineation map was completed by field inspection.

Woodland A: The woodland area is located along the western side of the property. The dominate canopy is oak, walnut, sycamore, and Pecan. The understory is made up of Boxelder, Mulberry and Elm. The size ranges from 8-18" on a majority of the trees. There are several Monarch trees which have been identified on the plan above.

Woodland B: The woodland area is located between Chesterfield Airport Rd and the Winter Bros. Material Co. This woodlands dominate canopy is made up of Elms. The understory is made up of Walnut, Boxelder, and Silver Maple. The size ranges from 4-12" primarily. There are some larger trees but they do not meet the criteria to be classified as Monarch Trees. The overall quality is low and approximately 5% of the stand has died.

Woodland C: The woodland area is located along the ROW of I-64/HWY 40. This woodlands is made up of Boxelder and Elm that have volunteered. The size varies from 3-12" with 5-8" being the dominate size. The overall quality of the trees is low due to the fact that grape vines have grown up into the canopies of the majority of these trees.

No state champion or rare trees were found on the site.

There is flood zone "x" on this parcel per FEMA map # 29189CO145 K

WOODLAND A = 2.11 Ac. (92,065 sq. ft.) WOODLAND B = 0.12 Ac. (5,118 sq. ft.) WOODLAND C = 0.79 Ac. (34,631 sq. ft.) INDIVIDUAL TREES = 0.48 Ac (20,712 sq. ft.)

Total Existing Canopy 3.5 Ac (152,526 sq. ft.)

Tree Stand Delineation Plan Prepared by Douglas A. DeLong Certified Arborist MW-4826A

Base Map Provided by: Stock & Associates

Delineation Sheet TSD-1

Tree Stand

Sheet

Douglas A. DeLong, Landscape Architect LA-81

Consultants:

Chesterfield

Drawn: BD

Date: 05/15/2017 Job #: 176.001