


Architectural Review Board Staff Report

Meeting Date: November 18, 2021

From: Chris Dietz, Planner 

Location: 875 Chesterfield Parkway W

Applicant: Stock & Associates, Inc.

Description: **Chesterfield Ridge Center, Parcel VII (Pfizer) 4th ASDSP:** An Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for a 31.8-acre tract of land zoned "C-8" Planned Commercial District located on the northwest portion of the intersection of Chesterfield Parkway West and Olive Blvd. (18S521119).

PROPOSAL SUMMARY

Stock and Associates, on behalf of Pfizer, has submitted an application for a 4th Amended Site Development Section Plan (ASDSP) for a biopharmaceutical building located at the intersection of Olive Blvd and Chesterfield Parkway West. The ASDSP includes a multi-story building addition located on the west (rear) side of the building. Additional parking spaces and a security gate are also included in this proposal along with the addition of two (2) pedestrian door vestibules located on the north side of the building.



Figure 1: subject Site Aerial

HISTORY OF SUBJECT SITE

2000—A Site Development Section Plan for an 8-story office building and 4-story office building was approved by Planning Commission but never constructed.

2017—A Site Development Concept Plan (ASDCP) was approved showing a redesigned development for a research and office campus being developed in two (2) phases, the latter of which included a building addition to the south of the main building and the construction of a parking garage to the southwest. A Site Development Section Plan (SDSP) was approved the same year for the development of Phase I of the project, which included a 262,000 square-foot research and office building.

2018-2019—Three (3) ASDSPs were approved for this site to modify utilities areas, building elevations, pedestrian sidewalks and paths and provide additional monument signage onsite.

2021—An Amended Site Development Concept Plan (ASDCP) was concurrently submitted with this request, showing the site being developed in three (3) phases with the 4th ASDSP shown as Phase II of development along the west side of the building. Phase III will include the proposed parking structure and will be developed in the future. This ASDCP is also currently under review.

STAFF ANALYSIS

General Requirements for Site Design

The Unified Development Code details both desirable and undesirable practices for Site Design, as shown in the table below:

Desirable Practices	Undesirable Practices
Provide safe pedestrian movement between elements	Site design that impairs or interferes with other properties or developments
Provide public plazas, courtyards, assembly areas, etc.	Excessive noise, lighting, glare
Incorporate scenic views, fountains, public art, etc., within outdoor spaces	Delivery zones, trash enclosures, storage areas, transformers and generators that are not screened and are visible by the public
Consider climate, solar angles, and outdoor activities when designing elements within outdoor spaces	Aboveground public utilities

Table 1: General Guidelines for Site Design

General Requirements for Site Design are further broken down into the following categories:

- Site Relationships
- Circulation and Access
- Topography and Parking
- Retaining Wall

A. Site Relationships

The site is surrounded by retail to the south, hotel, daycare and restaurants to the east, and residential to the north and west.

B. Circulation System and Access

The site is currently accessed by two curb cuts—one from Chesterfield Pkwy. and another from Olive Blvd. The Olive Blvd. entrance is to be gated for security by an island and two security gates with a turnaround area for denied vehicles entering the site. A depiction of the proposed gate system is provided in the figure below:



Figure 2: Proposed Gate System

The entrance from Chesterfield Pkwy. will have a landscape island installed, but will not be gated. Pedestrian walkways are located along both street frontages and throughout the site.

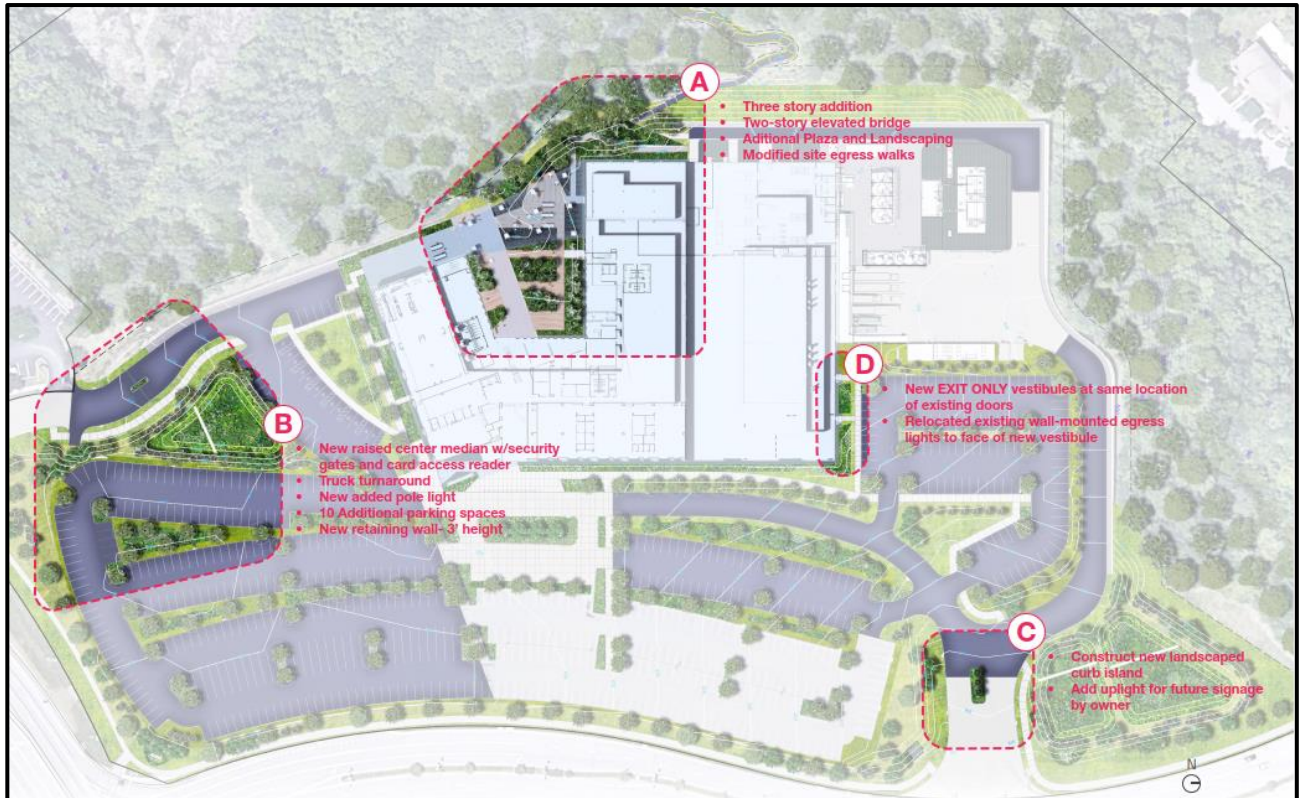


Figure 3: Color Site Plan

C. Topography, Parking & Retaining Walls

The site’s topography ranges from 635’ in elevation at the main building’s location to 540’ in elevation toward the west of the site. The open space currently accounts for 68.9% of this site. After the proposed improvements being requested, the site would still have ample open space, at 67.8%.

There are multiple retaining walls that were installed with Phase I of the development. These walls are comprised of Gabion stone and modular block. A new retaining wall will be included to accommodate additional parking spaces in the southern area of the parking lot. This wall will be comprised of modular block and will be three feet (3’0”) in height.

There will be ten (10) additional parking spaces added to the southern portion of the site, bringing the total parking to 675 spaces for this use. This amount is beneath the minimum parking required for this use. However, the applicant is seeking a Deferral of Parking Construction until the next phase of construction, which will provide the additional 54 spaced needed to comply with code. This deferred parking is noted on the ASDSP Sheet in the submittal packet, and a parking garage to be constructed in the next phase is shown on the Amended Site Development Concept Plan currently under review.

General Requirements for Building Design

The UDC also includes specific site and building design criteria for commercial and industrial architecture, as well as shopping center and office complex uses, shown in Table 2 below:

	Access	Exterior Elements	Landscaping and Screening	Scale	Site Design
Commercial and Industrial Architecture	Locate service and loading areas away from public streets and out of the main circulation system and parking areas. Provide access for service vehicles, trash collection and storage areas from alleys when possible. If not possible, utilize the street with the least traffic volume and visual impact.	See Section 405.04.010(D), General Requirements For Building Design, of this Article.	Screen utility meters and surface transformer switching pads.	See Section 405.04.010(D), General Requirements For Building Design, of this Article.	Design and locate building equipment and utilities to minimize visibility from public streets, surface parking lots, and neighboring properties.

Table 2: UDC Commercial and Industrial Design Guidelines

General Requirements for building design are also broken down into the following categories:

- Scale
- Design
- Materials and Color
- Landscape Design and Screening
- Signage
- Lighting

A. Scale

The scale of the building addition is similar to that already existing on the site. The first floor will be utilized as a covered pedestrian plaza connecting the courtyard to the rest of the site. The two stories above it will be equal to the size and scale of the existing building. Given that this addition is located along the rear of the building, it will not change the perceived scale of the building from Olive Blvd. or from Chesterfield Pkwy.

B. Design

The addition will utilize the same design as the rest of the existing building, which will feature a three-story design with covered public space on the first floor with office and laboratory space on the two floors above it. The height of the addition will be flush with that of the existing building. However, four (4) additional ventilation stacks will be added behind the existing penthouses, which will rise approximately ten (10) feet above the penthouses—equal in height to those already existing on the building. A new penthouse will be added on the west side of the building for screening rooftop equipment from view as part of the building addition. Additionally, two small, 63 square-foot vestibule areas will be added to the north elevation of the building, comprised of the same color and material found elsewhere on the existing building.

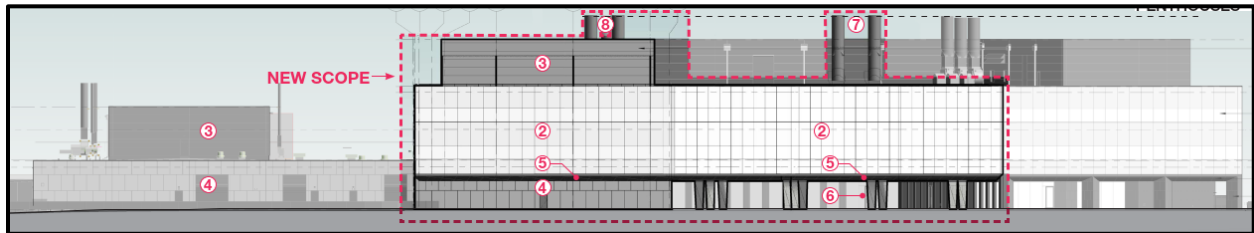


Figure 4: West Elevation

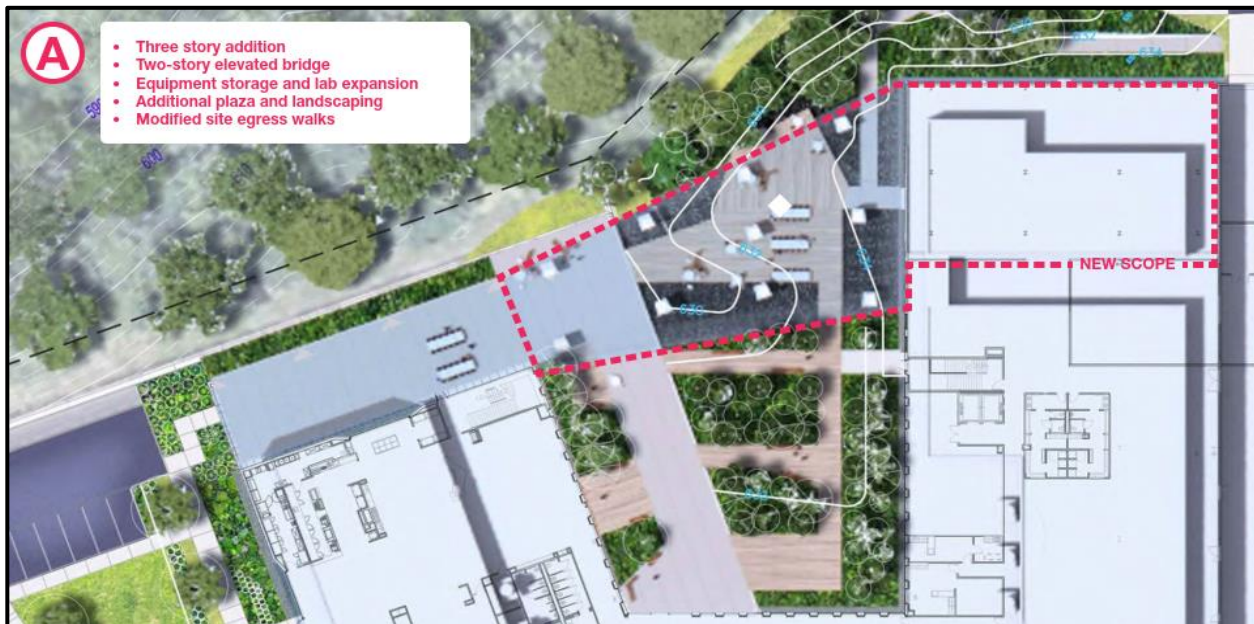


Figure 5: Building Addition Aerial



Figure 6: Vestibules (North Elevation)

C. Materials and Color

The material and color palette is almost identical to that found on the existing building, with the exception of the silver-grey metal found on the sloped soffits and columns on the ground level of the addition. The other materials and colors will match what currently exists today: fritted glass curtain wall, tilt-up concrete (grey), stone cladding, metal soffits (alabaster; wood colored), metal paneling (light grey), and metal coping.

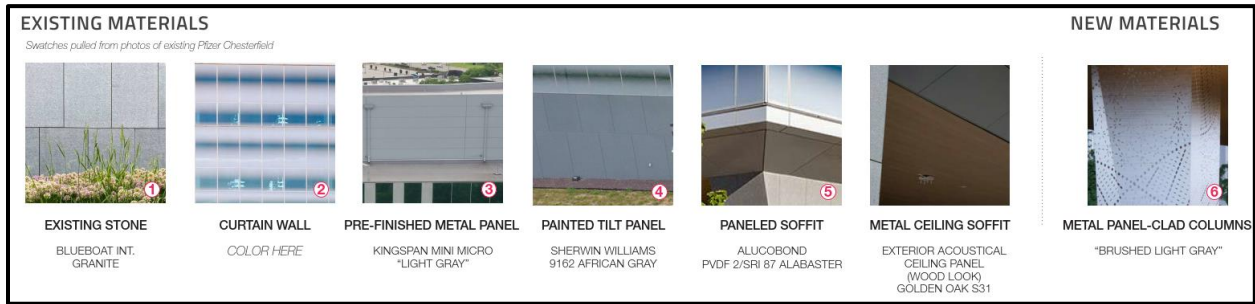


Figure 7: Material Palette

D. Landscape Design and Screening

Ornamental landscaping will be incorporated on both access drive islands entering the site. New plantings will be installed to the west of the new addition with one existing red maple tree to be transplanted from the courtyard to this area as well. All plantings comply with UDC landscape requirements.

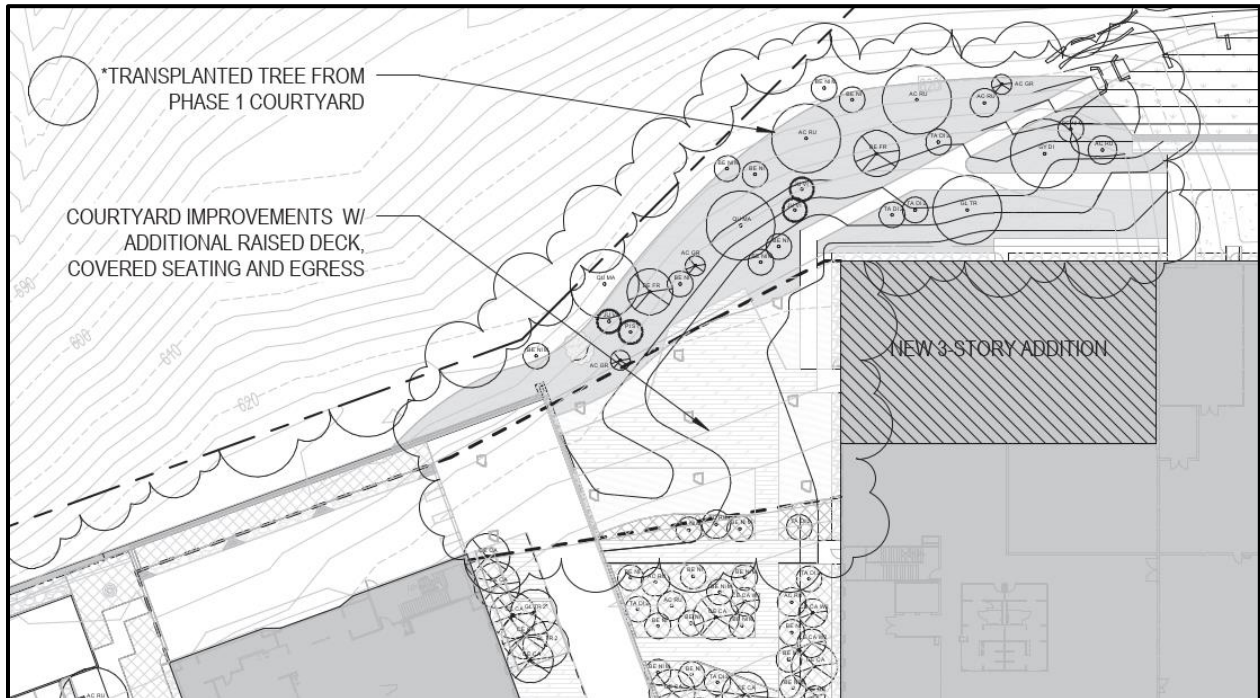


Figure 8: Localized Landscape Plan

E. Lighting

A total of four (4) types of fixtures is being proposed in conjunction with this request. Soffit lighting will be used beneath the second story of the addition for the pedestrian plaza, along with bollard lighting in and around the courtyard. Both of these fixtures are currently found onsite. One (1) pole fixture will be added to the gate area on the southern access point for security, which will also match other pole fixtures found onsite. Lastly, a ground-mounted up-lighting fixture will be utilized at the east access point to illuminate a freestanding sign. This type of upward lighting may only be approved by Planning Commission as an alternative to a fully-shielded fixture. The applicant has provided a diagram showing that no light will trespass upward beyond the sign face in the ARB packet, as shown in Figure 9.

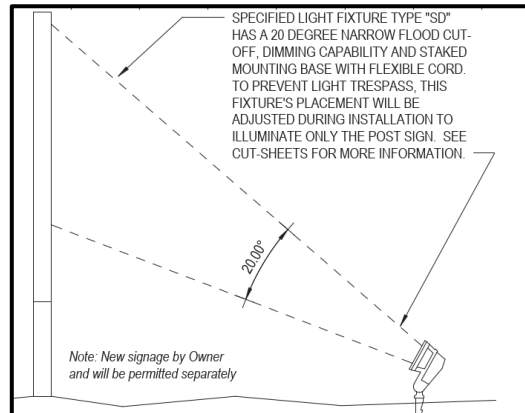


Figure 9: Lighting Cutoff Exhibit

Rendering



Figure 10: Rendering

DEPARTMENT INPUT

Be advised, this project is still going through development review by City Staff and will not proceed to the Planning Commission until all outstanding items have been addressed. All recommendations made by the ARB will be included in Staff's report to the Planning Commission.

Staff requests review and recommendation on the Amended Site Development Section Plan for Chesterfield Ridge Center, Parcel VII (Pfizer).

MOTION

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

- 1) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Ridge Center, Parcel VII (Pfizer), as presented, with a recommendation for approval (or denial) to the Planning Commission."
- 2) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Ridge Center, Parcel VII (Pfizer), to the Planning Commission with the following recommendations..."

Attachments

1. Architectural Review Packet Submittal

Pfizer Expansion

Chesterfield, Missouri

Architectural Review Board Submission

November 2, 2021





ARCHITECTURAL REVIEW BOARD
Project Statistics and Checklist

Date of First Comment Letter Received from the City of Chesterfield 10/20/2021

Project Title: Pfizer Inc., (P.Z. 06-2016) Ordinance #2916 Location: 875 West Chesterfield Parkway, 63017

Developer: N/A Architect: LJC and EwingCole Engineer: Stock & Assoc.

PROJECT STATISTICS:

Size of site (in acres): 31.8 Total Square Footage: 305,000* Building Height: 74'-6"

Proposed Usage: Office and Laboratory Addition to Existing Facility

Exterior Building Materials: Predominate Materials are Curtainwall, Painted Concrete and Prefinished Metal Panels

Roof Material & Design: Single-Ply Membrane

Screening Material & Design: Prefinished Metal Panels

Description of art or architecturally significant features (if any): The design of this New Addition will follow the aesthetics of the existing building that was completed in 2018.

*Original GSF = 305,000. The New Addition including Penthouse and

ADDITIONAL PROJECT INFORMATION: added Exit Vestibules on north side of building = 44,240 GSF

Checklist: Items to be provided in an 11" x 17" format

- Color Site Plan with contours, site location map, and identification of adjacent uses.
- Color elevations for all building faces.
- Color rendering or model reflecting proposed topography.
- Photos reflecting all views of adjacent uses and sites.
- Details of screening, retaining walls, etc.
- Section plans highlighting any building off-sets, etc. (as applicable)
- Architect's Statement of Design which clearly identifies how each section in the Standards has been addressed and the intent of the project.
- Landscape Plan.
- Lighting cut sheets for any proposed building lighting fixtures. (as applicable)
- Large exterior material samples. (to be brought to the ARB meeting)
- Any other exhibits which would aid understanding of the design proposal. (as applicable)
- Pdf files of each document required.

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ARB 06/2020

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ARCHITECTURAL REVIEW DESIGN STANDARDS

Please refer to [Section 04-01 of the Unified Development Code](#) for the Architectural Review Design Standards.

ARCHITECTURAL TERMS

Please refer to [Section 10-06 of the Unified Development Code](#) for definitions of Architectural Terms.

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ARB 06/2020

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Statement of Design

November 2, 2021

The Clayco-LJC-EwingCole-Stock & Associates Team is Submitting for an Office and Laboratory expansion project to the existing Pfizer Chesterfield building located at 875 Chesterfield Parkway West. The proposed scope of work consists of site work, a 3 story office and lab building with a mechanical penthouse, an elevated 2-story office bridge, two exit-only enclosed vestibules all totaling 44,240 GSF (includes penthouse GSF).

GENERAL REQUIREMENTS FOR SITE DESIGN

Site Relationship: The 3 story building with mechanical penthouse and elevated 2-story bridge is planned to enclose the western side of the existing courtyard; but allow employee circulation under the new 2 story bridge portion for egress and views. Two small 63 GSF exit-only Vestibules are planned to be added to the north side of the existing one-story manufacturing building. The majority of the new additions will largely be concealed from the Public views along Olive and Chesterfield Parkway. The existing, undeveloped wooded property on the west side of the facility provides a visual buffer to the new Addition.

Parking: As noted in the Amended Site Development Concept Plan submission, the new Addition will impact Parking Calculations. Per City of Chesterfield, MO Unified Development Code, Section 405.04.040.H. Pfizer is seeking Deferral of Parking Construction. There are 54 Parking Spaces not provided at this time and can be accommodated by a future phase. To be in compliance of the Deferral, 10 new Parking Spaces are being added to the project at this time.

Circulation System and Access: Pfizer has experienced some cut-through traffic between the two unsecured entrances at Chesterfield Parkway and Olive Boulevard. To secure the site and eliminate public confusion, Pfizer is proposing to build out a landscaped curbed island at the Chesterfield Parkway entrance that was previously approved and shown on existing Site Development Section Plan. Pfizer is proposing the build-out of a card access security gate at the Olive Boulevard entrance, beyond the shared portion with YaYas Euro Bistro restaurant, as previously approved and shown on existing Site Development Section Plans.

Topography: The new scope is designed to have a low impact and work with the existing site topography. The existing Stormwater management system will be utilized with minor modifications.

Landscape & Screening: The new landscaping will match existing and continue to embrace low maintenance, indigenous species; including deciduous trees, evergreen trees, shrubs, grasses and perennials.

Utilities: There is minor utility work with this new scope and it will all occur within the property lines and be buried underground.

GENERAL REQUIREMENTS FOR BUILDING DESIGN

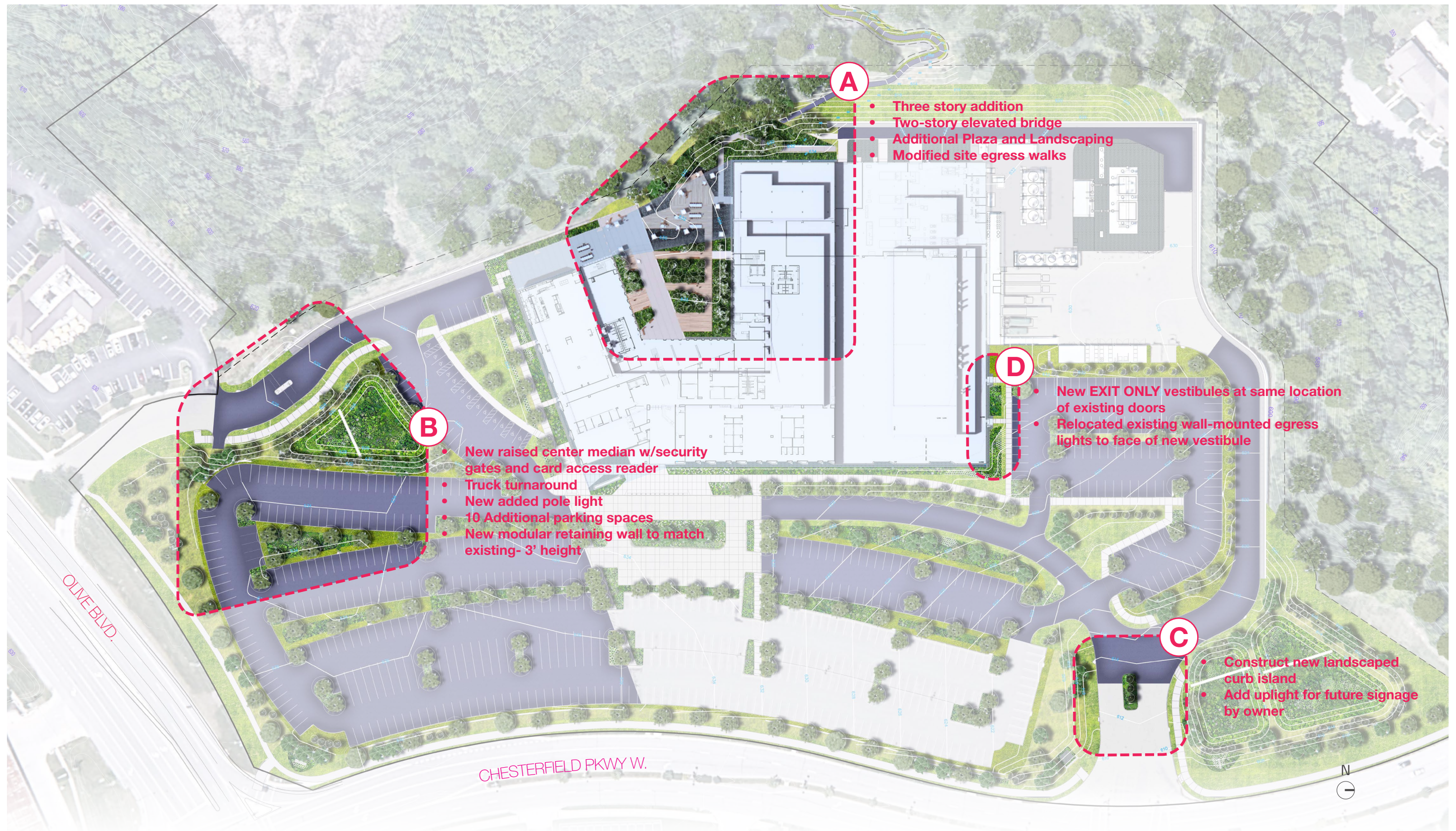
Scale: The scale of the Addition matches and does not exceed the height of the existing 3 story facility.

Design and Materials: The addition continues to maximize scenic views of the surrounding neighborhoods and provides a highly collaborative research environment. The new Additions are clad with the same materials and colors as the existing building (Fritted glass curtainwall, Painted Concrete Tilt-Panels, Stone Cladding, Metal Coping and Soffit Materials). The new Mechanical Penthouse is clad with the same prefinished insulated metal panel system as the existing. The only new material would be at the new columns under the bridge at the rear of the building; they are same color metal as existing sloped soffits with a small perforated decorative pattern.

The two new exit-only enclosed vestibules are 63 GSF each. They are clad with some remaining attic stock granite stone masonry on the east elevations facing Chesterfield Parkway. The north and west elevations are clad with the same color metal as existing sloped soffits. Joints in the metal wall will mimic that of the Stone Panels. The new exit doors and frames are painted to match the metal panel color. The existing wall lights above the doors are to be relocated to above the new doors, this is reflected in the Site Lighting and Photometric Plans.

Site Lighting: 1 added Site Pole Light is proposed at the new Card Access Security Gate at the Olive Boulevard entrance. This is done to provide a more even light distribution for security camera coverage and employee comfort and safety when using card access equipment. 1 added ground mounted uplight is proposed at the New landscaped curbed island at the Chesterfield Parkway entrance. This is to illuminate a future sign by Owner. Existing Exit Path Lighting will be shifted to outside face of new exit vestibules. New under-soffit downlights will be placed under the new bridge addition to provide egress lighting. Several new bollard lights to match existing will be added at the new exit access sidewalks that surround the new addition.

Site Plan | SITE MODIFICATIONS



A

- Three story addition
- Two-story elevated bridge
- Additional Plaza and Landscaping
- Modified site egress walks

B

- New raised center median w/security gates and card access reader
- Truck turnaround
- New added pole light
- 10 Additional parking spaces
- New modular retaining wall to match existing- 3' height

D

- New EXIT ONLY vestibules at same location of existing doors
- Relocated existing wall-mounted egress lights to face of new vestibule

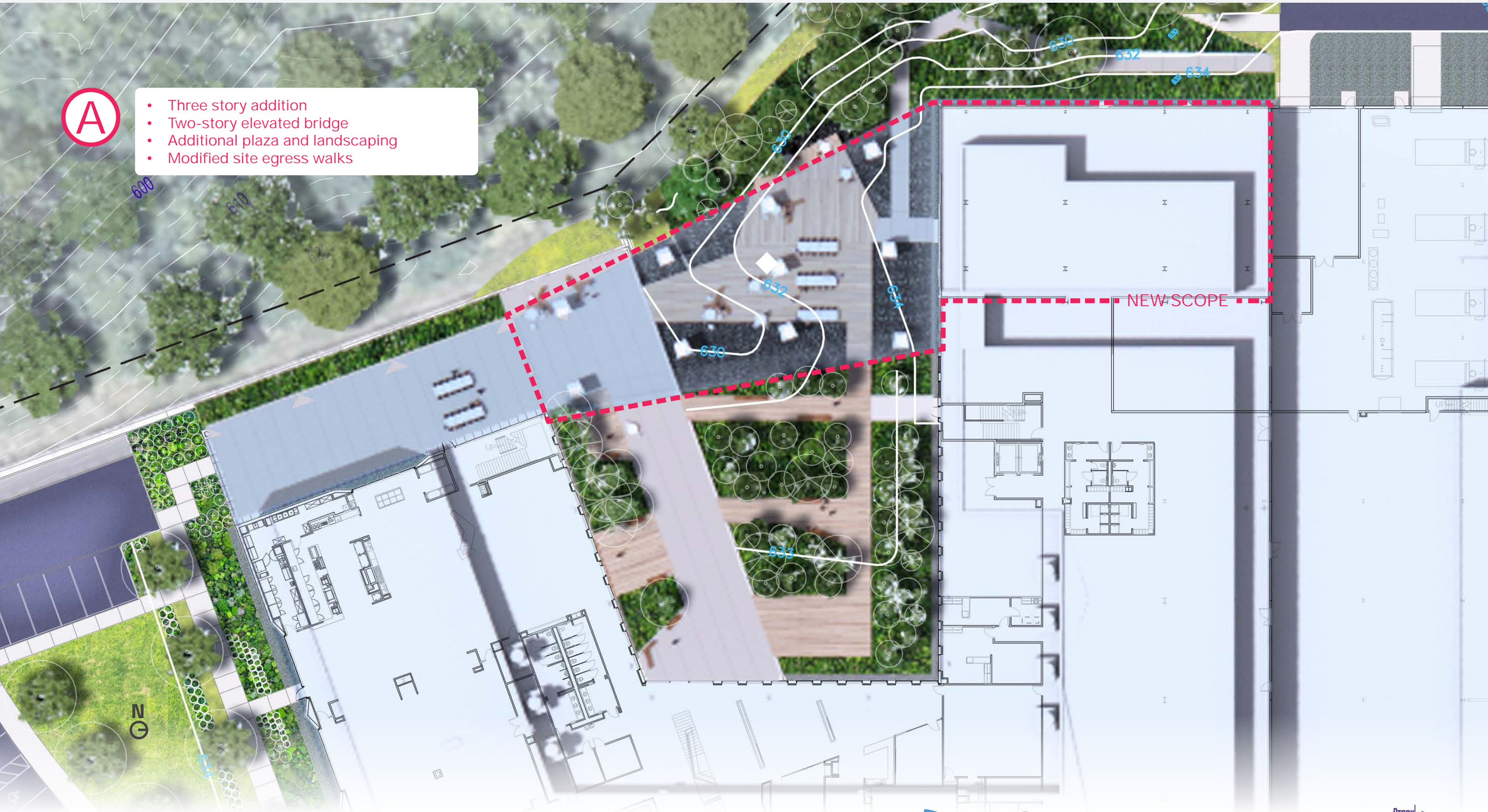
C

- Construct new landscaped curb island
- Add uplight for future signage by owner

Site Plan | SITE MODIFICATIONS

A

- Three story addition
- Two-story elevated bridge
- Additional plaza and landscaping
- Modified site egress walks



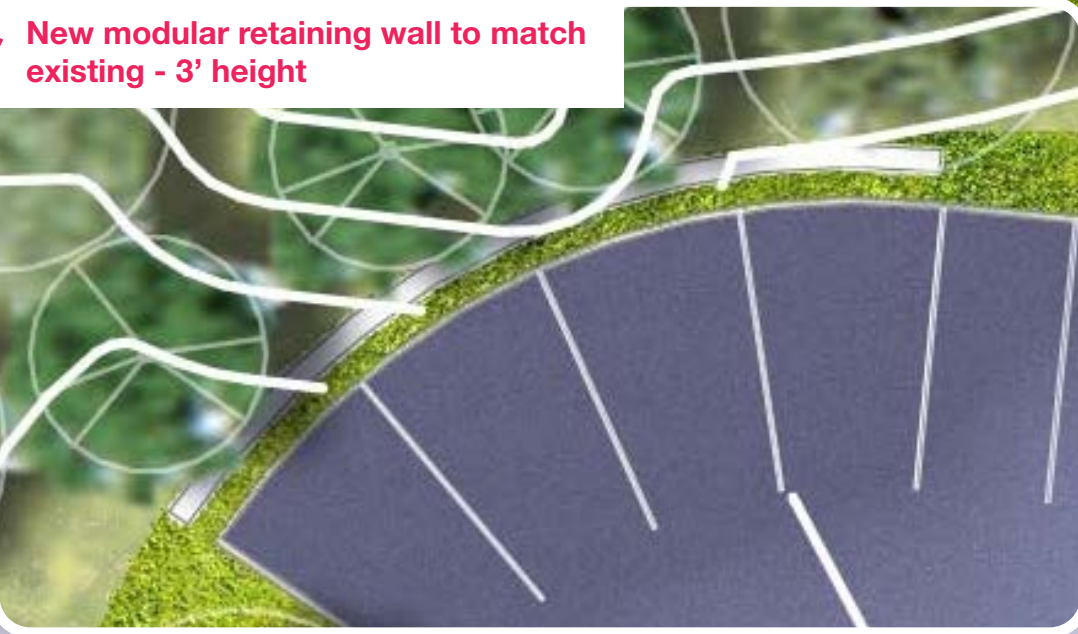
B

New raised center median w/security gates and card access reader



Truck turnaround

New added pole light

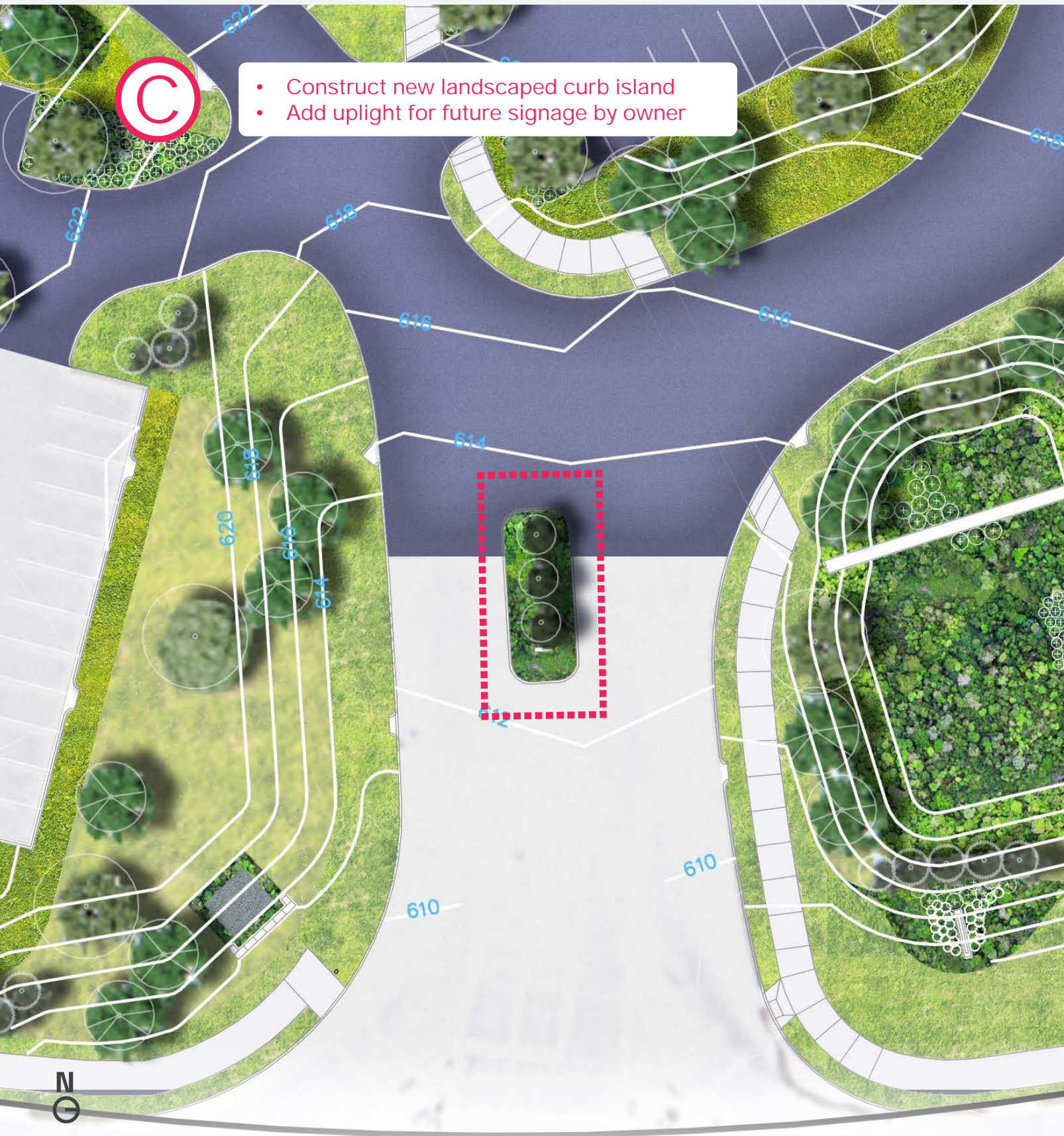


10 Additional parking spaces

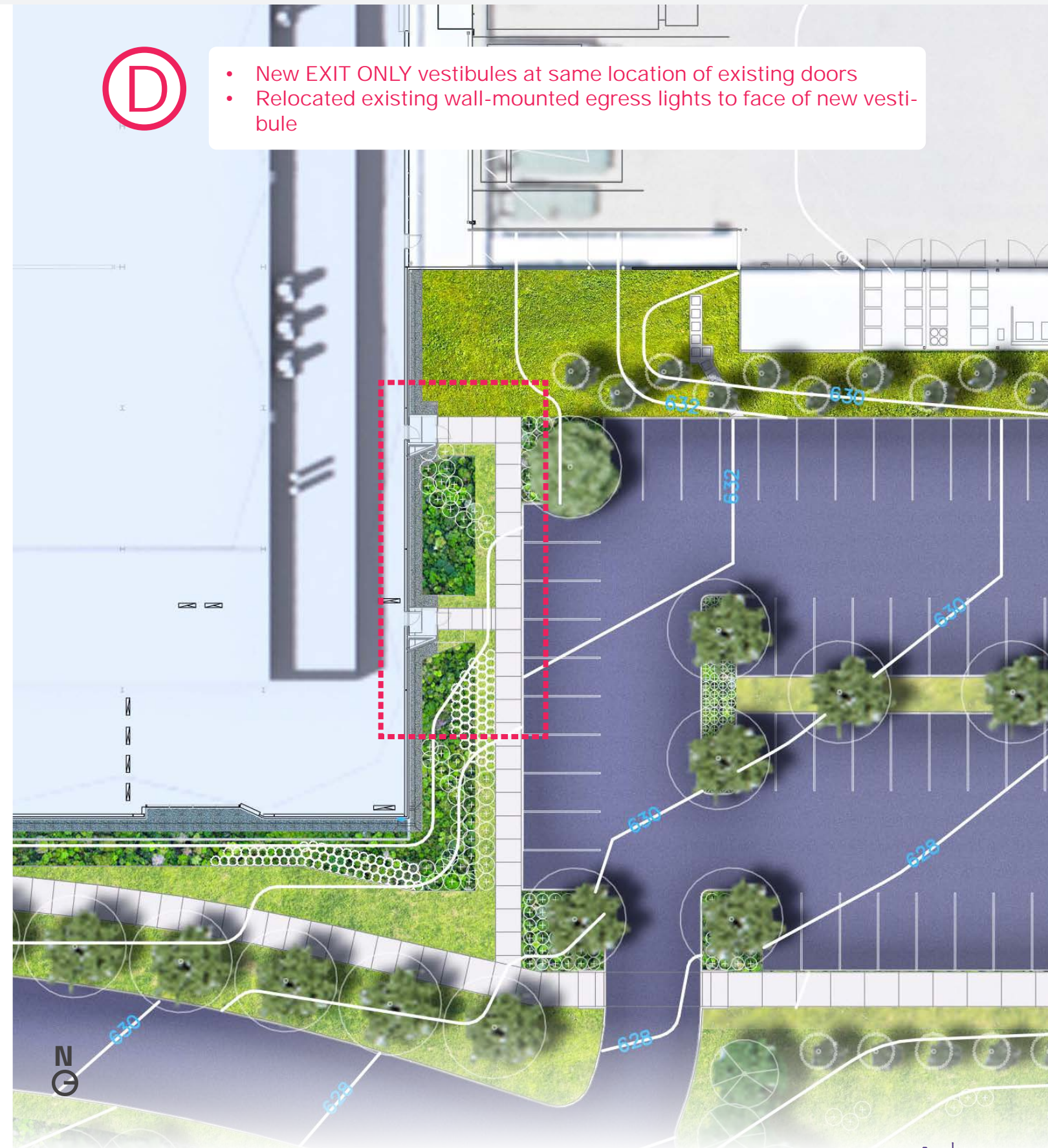
TO OLIVE BLVD.

GN

Site Plan | SITE MODIFICATIONS



- Construct new landscaped curb island
- Add upright for future signage by owner



- New EXIT ONLY vestibules at same location of existing doors
- Relocated existing wall-mounted egress lights to face of new vestibule

Elevations EAST & SOUTH

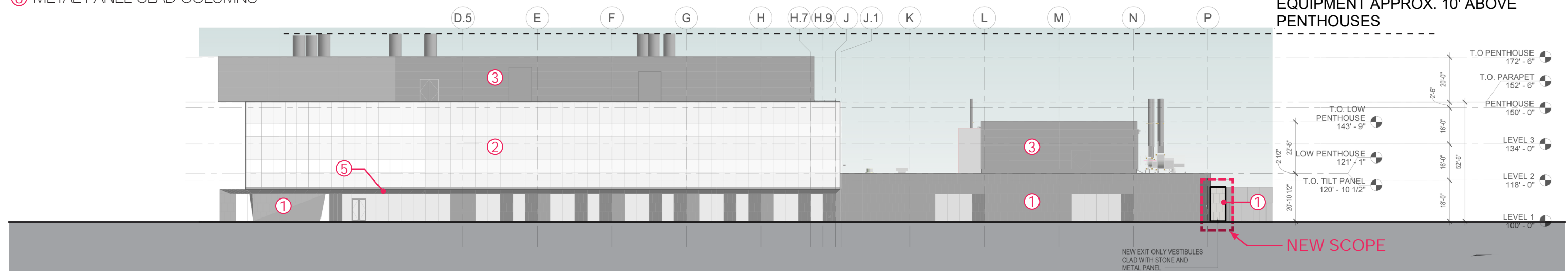


11.02.2021
KAPIL KHANNA - ARCHITECT
MO # A-201700403732

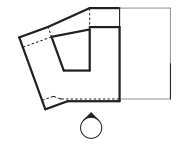
- MATERIAL**
- ① EXISTING STONE
 - ② CURTAIN WALL
 - ③ PRE-FINISHED METAL PANEL
 - ④ PAINTED TILT PANEL
 - ⑤ PANELED SOFFIT
 - ⑥ METAL PANEL CLAD COLUMNS

- ⑦ NEW MECHANICAL EQUIPMENT PLACED ON COURTYARD SIDE OF ROOF
- ⑧ NEW MECHANICAL EQUIPMENT PLACED BETWEEN PENTHOUSES

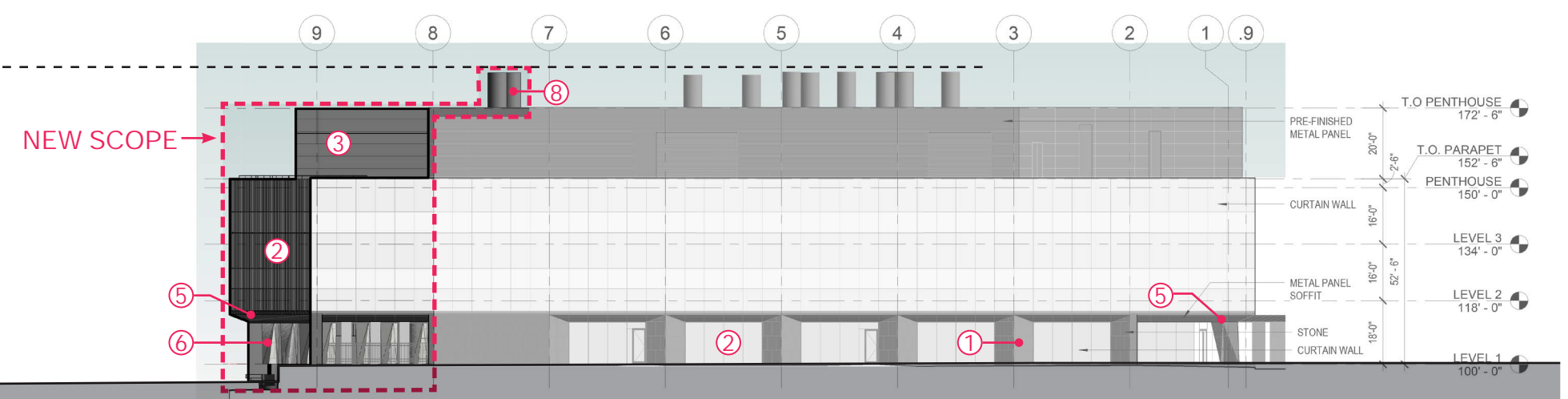
NEW AND EXISTING MECHANICAL EQUIPMENT APPROX. 10' ABOVE PENTHOUSES



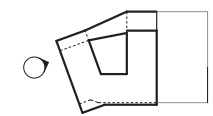
EAST ELEVATION



NEW AND EXISTING MECHANICAL EQUIPMENT APPROX. 10' ABOVE PENTHOUSES



SOUTH ELEVATION



Elevations WEST & NORTH

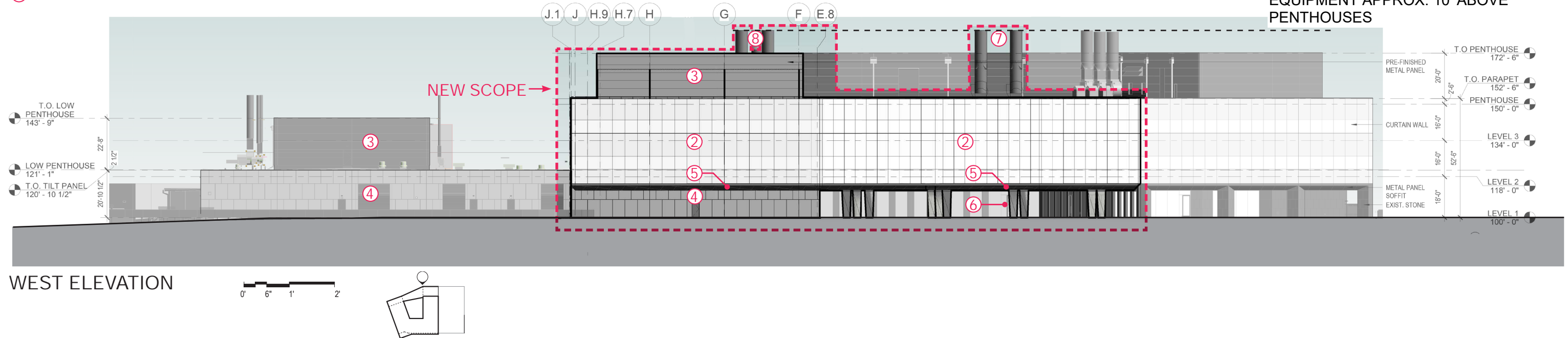


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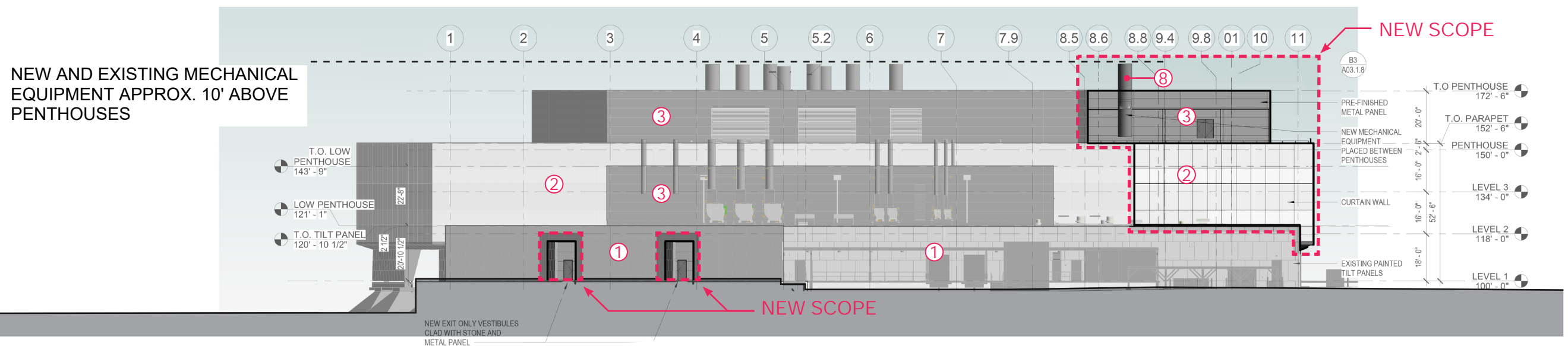
MATERIAL

- ① EXISTING STONE
- ② CURTAIN WALL
- ③ PRE-FINISHED METAL PANEL
- ④ PAINTED TILT PANEL
- ⑤ PANELED SOFFIT
- ⑥ METAL PANEL CLAD COLUMNS
- ⑦ NEW MECHANICAL EQUIPMENT PLACED ON COURTYARD SIDE OF ROOF
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NEW AND EXISTING MECHANICAL EQUIPMENT APPROX. 10' ABOVE PENTHOUSES

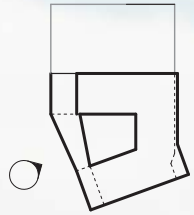


WEST ELEVATION

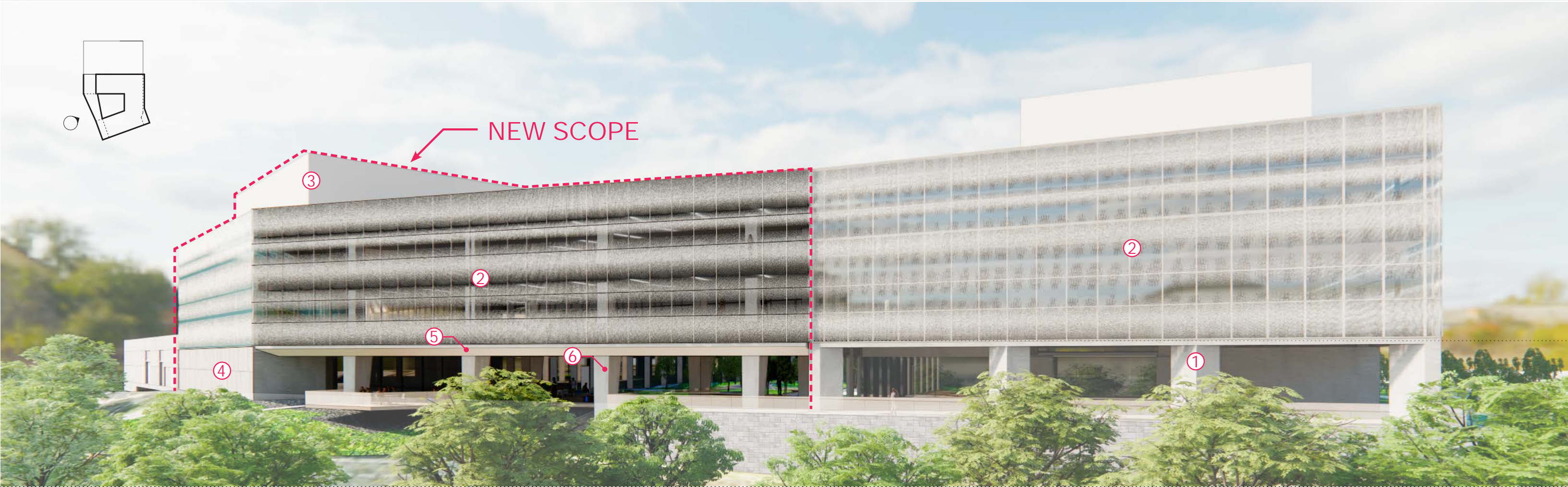
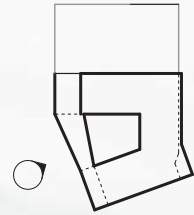


NORTH ELEVATION

Renderings | WESTERN FACADE



Materials & Color Palette | NORTHERN FACADE



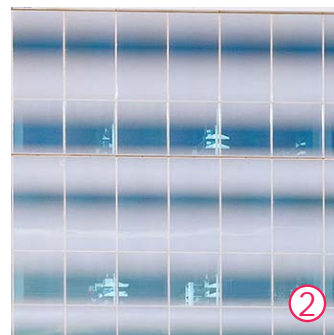
EXISTING MATERIALS

Swatches pulled from photos of existing Pfizer Chesterfield



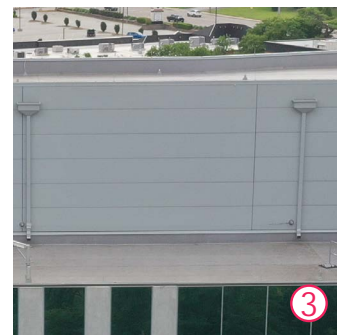
EXISTING STONE

BLUEBOAT INT.
GRANITE



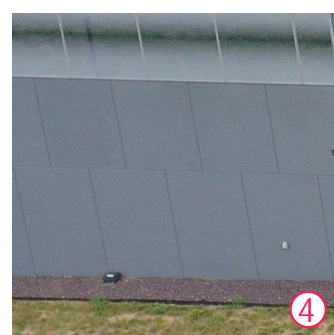
CURTAIN WALL

COLOR HERE



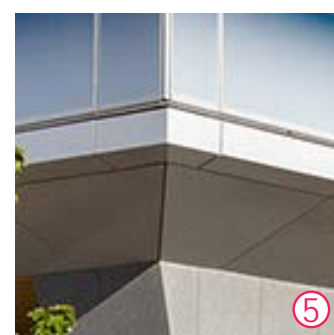
PRE-FINISHED METAL PANEL

KINGSPAN MINI MICRO
"LIGHT GRAY"



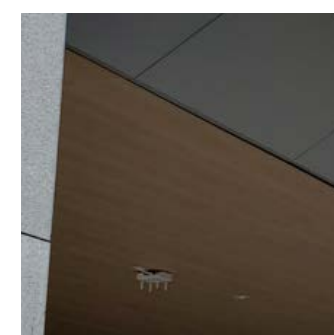
PAINTED TILT PANEL

SHERWIN WILLIAMS
9162 AFRICAN GRAY



PANELED SOFFIT

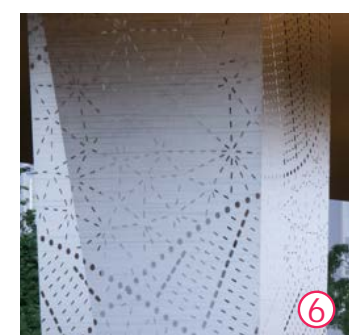
ALUCOBOND
PVDF 2/SRI 87 ALABASTER



METAL CEILING SOFFIT

EXTERIOR ACOUSTICAL
CEILING PANEL
(WOOD LOOK)
GOLDEN OAK S31

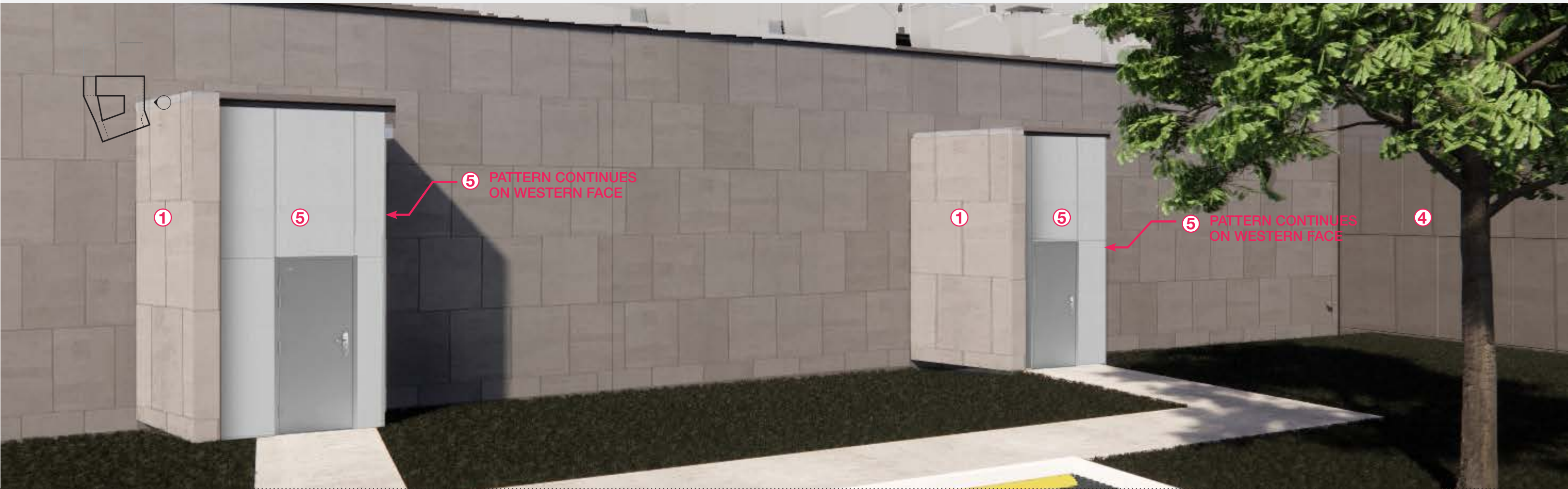
NEW MATERIALS



METAL PANEL-CLAD COLUMNS

"BRUSHED LIGHT GRAY"

Materials & Color Palette :: NORTHERN EXIT VESTIBULES



EXISTING MATERIALS



EXISTING STONE

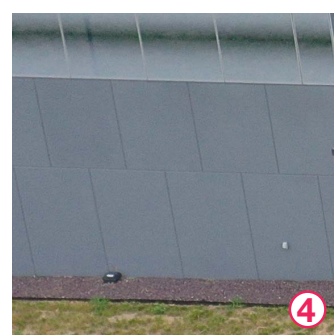
BLUEBOAT INT.
GRANITE



CURTAIN WALL

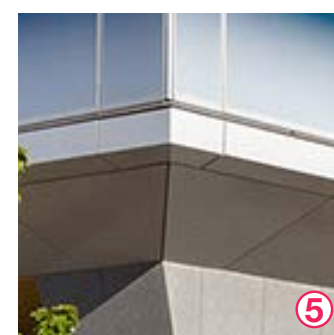


PRE-FINISHED METAL PANEL



PAINTED TILT PANEL

SHERWIN WILLIAMS
9162 AFRICAN GRAY



METAL PANEL

ALUCOBOND
PVDF 2/SRI 87 ALABASTER



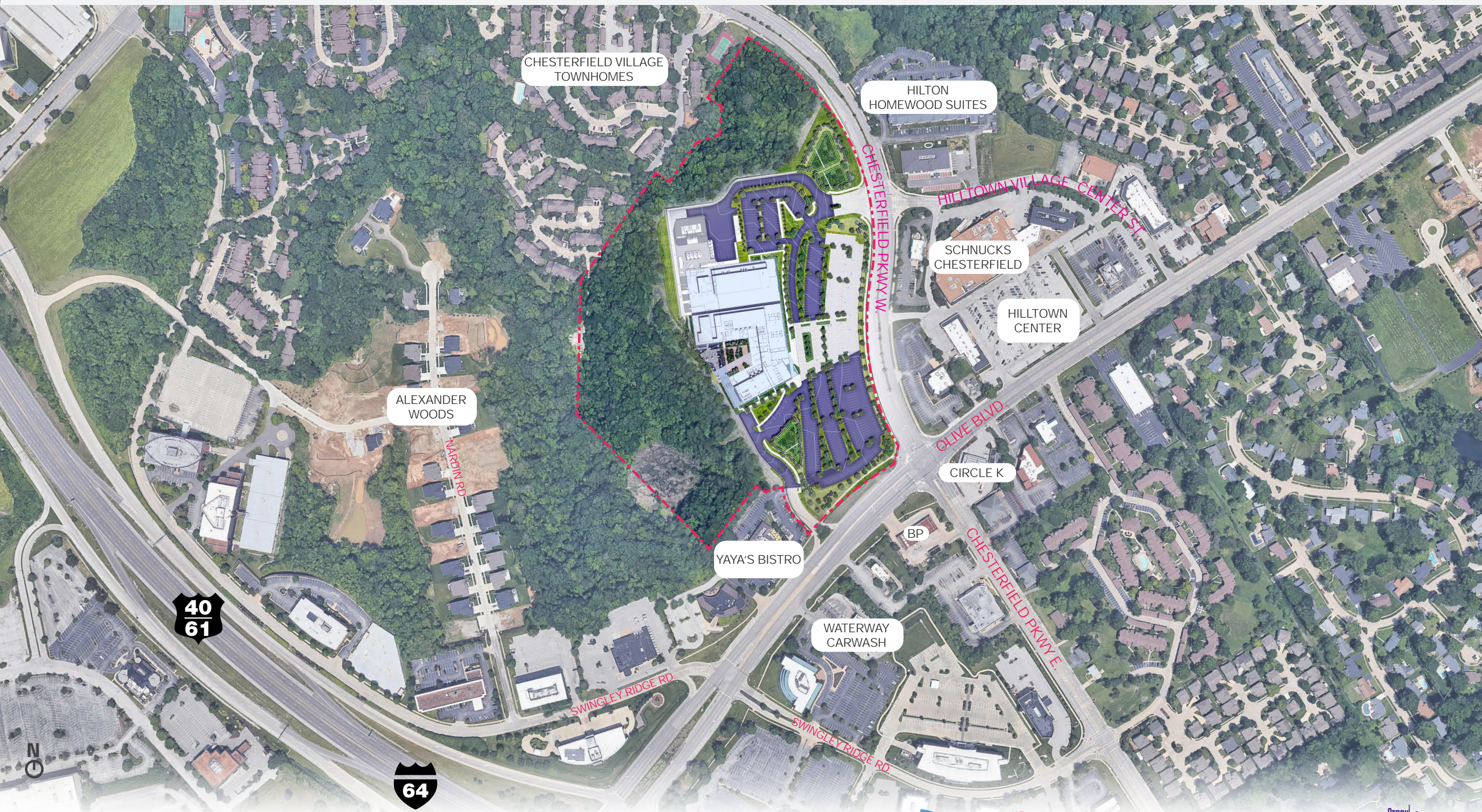
METAL CEILING SOFFIT



METAL PANEL-CLAD COLUMNS

NEW MATERIALS

Site & Context



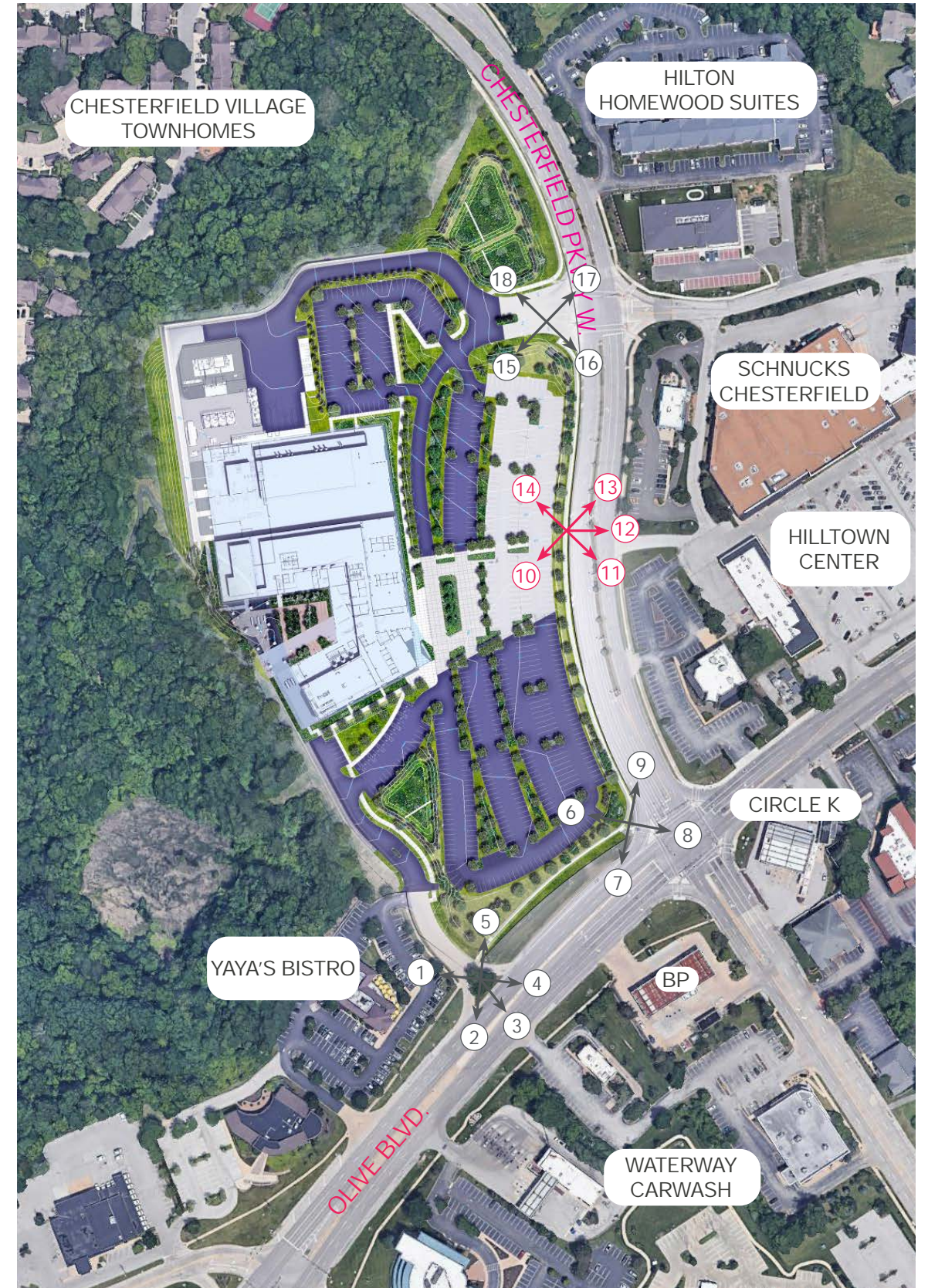
Adjacent Site Photos



Adjacent Site Photos



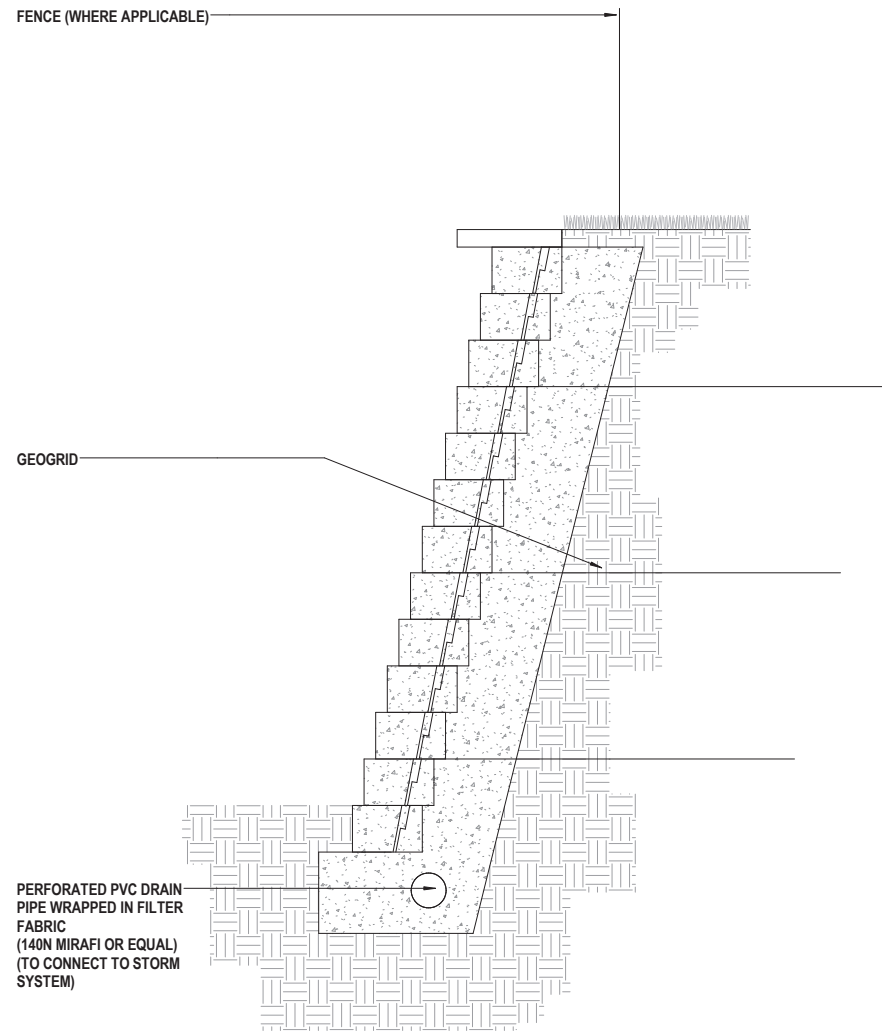
Adjacent Site Photos



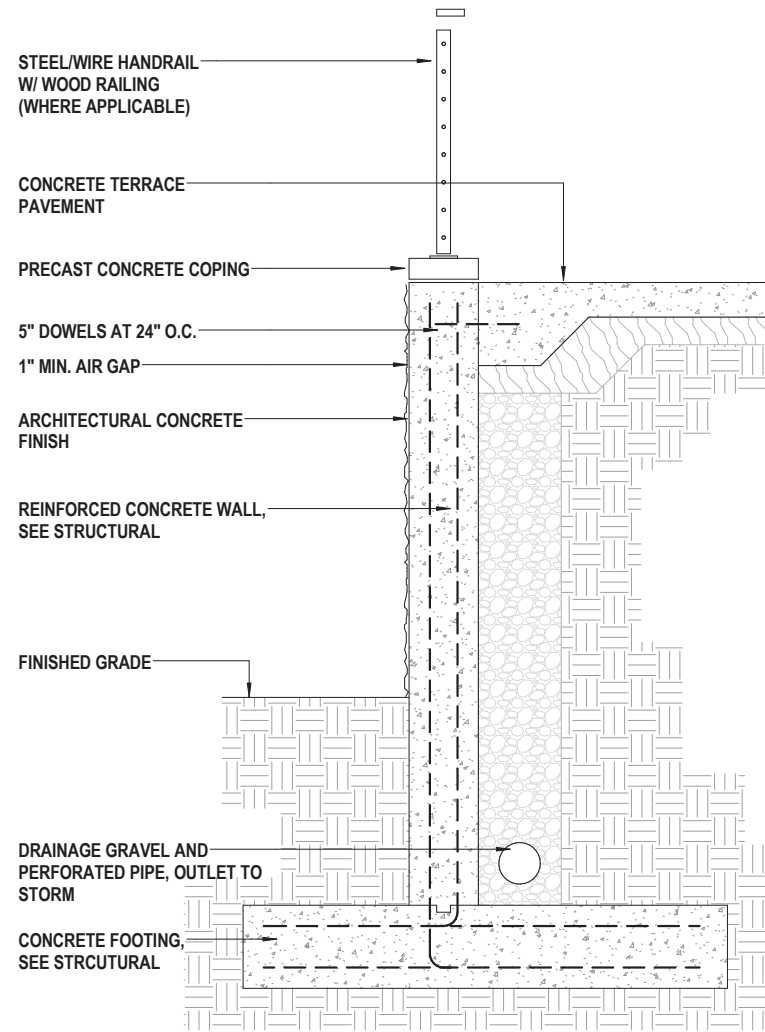
Adjacent Site Photos



Details of Existing Screening and Retaining Walls



EXISTING ■ MODULAR RETAINING WALL: NTS



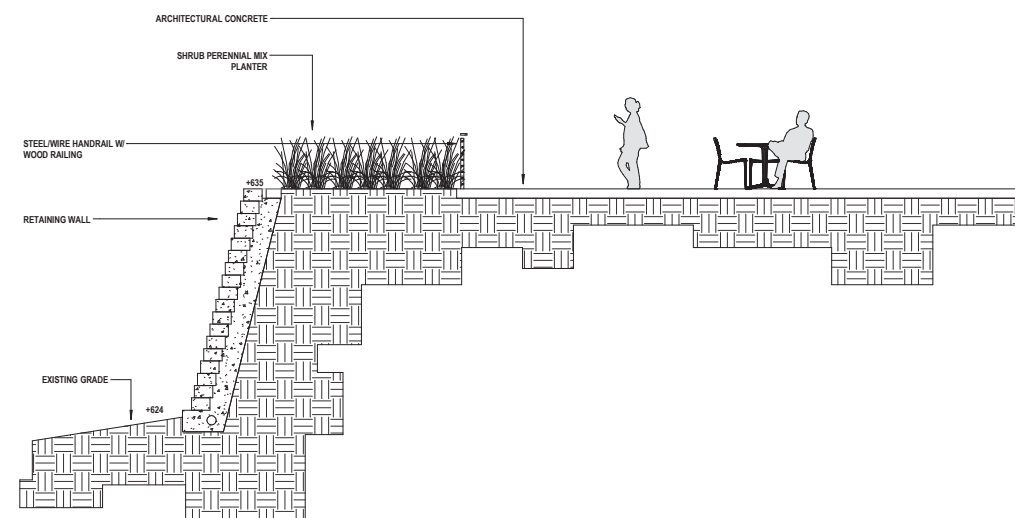
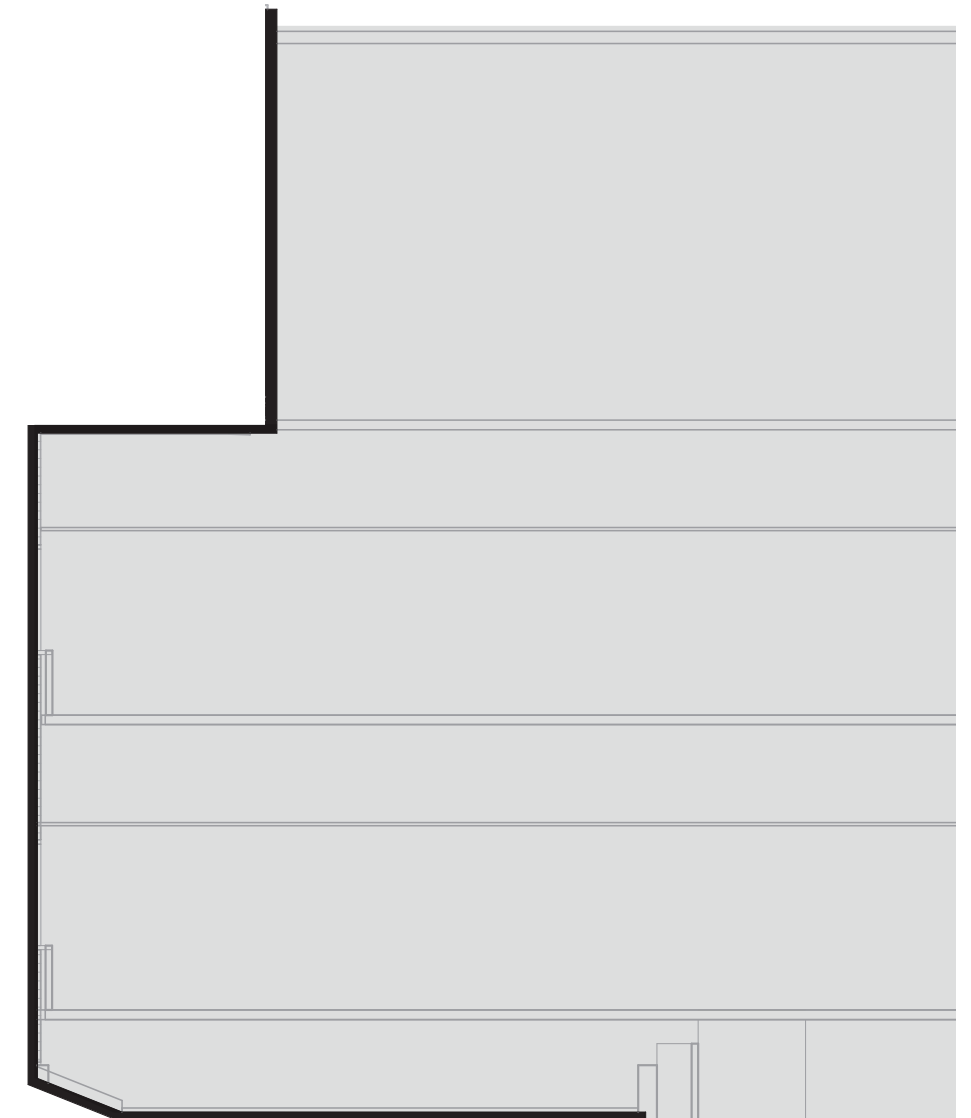
EXISTING ■ ARCHITECTURAL RETAINING WALL: NTS



EXISTING ■ GABION RETAINING WALL: NTS



EXISTING ■ SECURITY FENCE

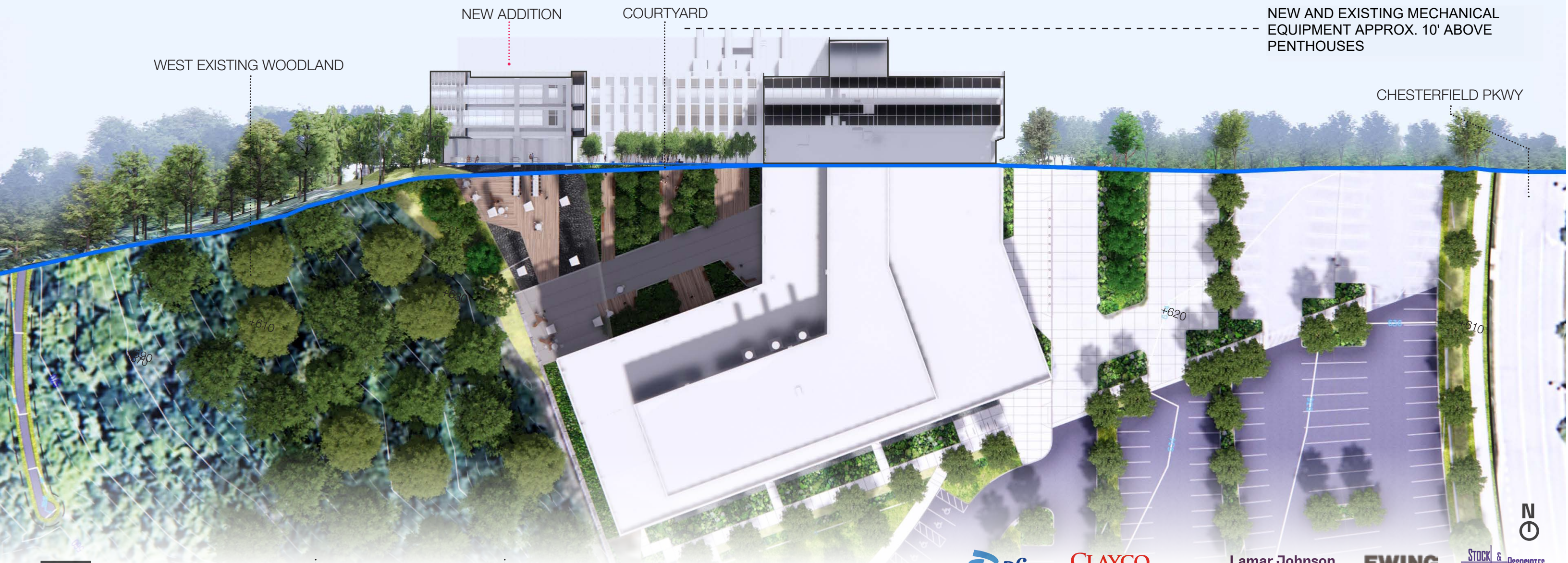


RETAINING WALL/BUILDING SECTION

Site Sections



SECTION KEY



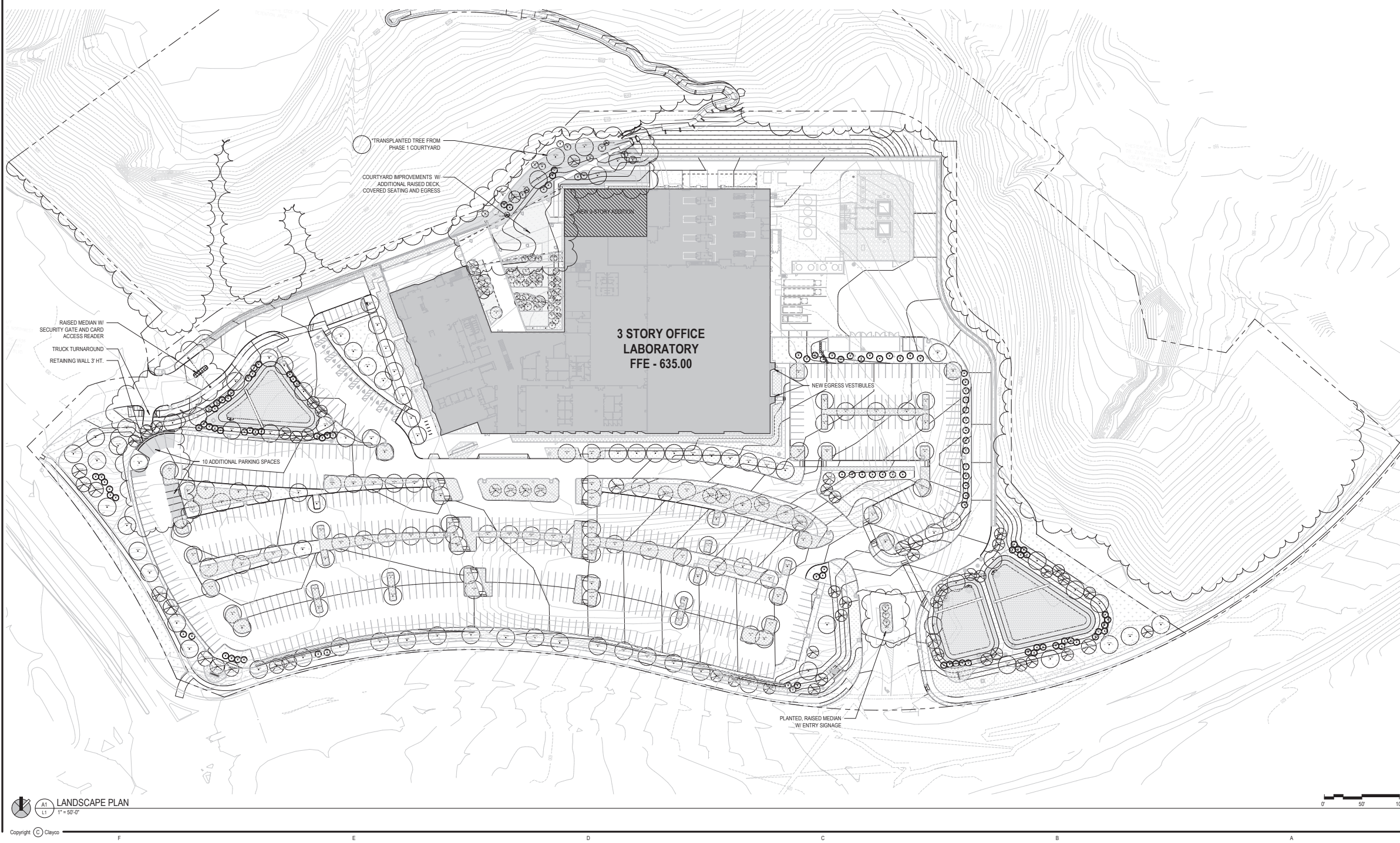
Site Plan



Landscape Plan & Schedule

PLANT SCHEDULE									
DECIDUOUS CANOPY TREES									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
AC RU	5	Acer rubrum	Red Point	Red Point Maple	2'-2' Cal	B & B	SEE PLAN	Transplant	
BE NI	4	Betula nigra	Heritage	River Birch	2.5' Cal	B & B	SEE PLAN	Transplant	
BE NI M	7	Betula nigra	Heritage	River Birch	1.5' Cal	B & B	SEE PLAN	Transplant	
GL TR	1	Gleditsia triacanthos	Itemis	Thornless Common Honeylocust	12' HL	B & B	SEE PLAN	Transplant	
GY DI	1	Gymnocladus dioica		Kentucky Coffee Tree	2.5' Cal	B & B	SEE PLAN	Transplant	
QU MA	1	Quercus macrocarpa		Bur Oak	2.5' Cal	B & B	SEE PLAN	Transplant	
QU RO	3	Quercus robur x bicolor	'Nadler'	Kindred Spirit Oak	2.5' Cal	B & B	SEE PLAN	Main Entry Island, Tree Staking	
TA DI	4	Taxodium distichum		Bald Cypress	8' HL	B & B	SEE PLAN	Transplant	
DECIDUOUS UNDERSTORY TREES									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
AC GR	2	Acer griseum		Paperbark Maple	4'-6' HL	B & B	SEE PLAN	Transplant	
EVERGREEN TREES									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
JU VI	2	Juniperus horizontalis		Blue Spreading Juniper	4'-6' HL	B & B	SEE PLAN	Transplant	
PI ST	1	Pinus strobus		Eastern White Pine	8'-10' HL	B & B	SEE PLAN	Transplant	
EVERGREEN SHRUBS									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
JU VI	12	Juniperus virginiana	Grey Owl	Juniper	12'-18" HL	B & B	36' O.C.	Main Entry (B) & Secondary Entry Islands (C)	
ORNAMENTAL GRASSES & SEDGES									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
se	6	Setaria autumnalis		Autumn Moor Grass	1 Quart	Container	12" O.C.	Main Entry Island	
sp	4	Sporobolus heterolepis		Dwarf Prairie Dropseed	1 Quart	Container	24" O.C.	Main Entry Island	
HERBACEOUS PERENNIALS & GROUNDCOVERS									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
al	8	Alum	Summer Beauty	Ornamental Onion	1 Quart	Container	18" O.C.	Main Entry Island	
ca	8	Calamintha nepeta subsp. Nepeta		Calaminth	1 Quart	Container	18" O.C.	Main Entry Island	
cc	8	Coreopsis verticillata	Zagib	Threadleaf Coreopsis	1 Quart	Container	18" O.C.	Main Entry Island	
BULBS									
Sym	Qty	Botanical Name	Cultivar	Common Name	Size	Method	Spacing	Comments	
na	12	Narcissus	King Alfred	Miniature Daffodil	Bulb	See Plan		Main Entry Island, 6" Planting Depth	

SEED MIXES			
S1 SAVANNA MIX			
9,884 SF			
Grasses/Sedges	PLS OZ./Acre	Forbs	PLS OZ./Acre
Scirpus atrovirens	30.00	Eryngium yuccifolium	5.00
Eleocharis acicularis	18.00	Helianthus annuus	5.00
Setaria viridis	10.00	Helianthus scaberrimus	2.00
Tripsacum daniellii	50.00	Lappula virginica	2.00
Stachytaraxa angustata	12.00	Liatris scariosa	5.00
Core/Carex		Monarda fistulosa	2.50
Annual Ryegrass	5 lbs. / Acre	Phlox pilularis	6.00
Spring Application		Parthenium integrifolium	3.00
Winter Wheat	10 lbs. / Acre	Parthenium integrifolium	4.00
Fall Application		Phlox pilularis	3.00
Forbs	PLS OZ./Acre	Pyroanthemum tenuifolia	3.00
Asclepias tuberosa	4.00	Ratibida pinnata	3.00
Aster oblongifolius	2.00	Rudbeckia hirta	5.00
Aster cotinifolius	2.00	Rudbeckia subtomentosa	2.00
Baptisia alba	4.00	Silphium integrifolium	6.00
Chamaecrista fasciculata	4.00	Solidago nemoralis	1.25
Coreopsis lanceolata	6.00	Solidago rigida	1.00
Coreopsis palmata	2.25	Tradescantia ohiensis	6.00
Coreopsis linifolia	6.00	Verbena helianthoides	3.00
Dalea candida	3.00	Veronica sp.	3.25
Dalea purpurea	3.00	Veronica virginicum	1.25
Echinacea purpurea	8.50	Zizia aurea	3.00



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LANDSCAPE ARCHITECT
LA - 00031814
11.02.2021

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RNA DEVELOPMENT LABORATORY EXPANSION
875 West Chesterfield Parkway
Chesterfield, MO 63017
Project Status

DRAWING ISSUE	
DESCRIPTION	DATE
ASSOC & ASSUP	09/23/2021
CITY COMMENTS	10/15/2021
CITY COMMENTS	11/02/2021

BUILDING MAP

DRAWING TITLE
LANDSCAPE PLAN & SCHEDULE

DRAWING NO.
L1

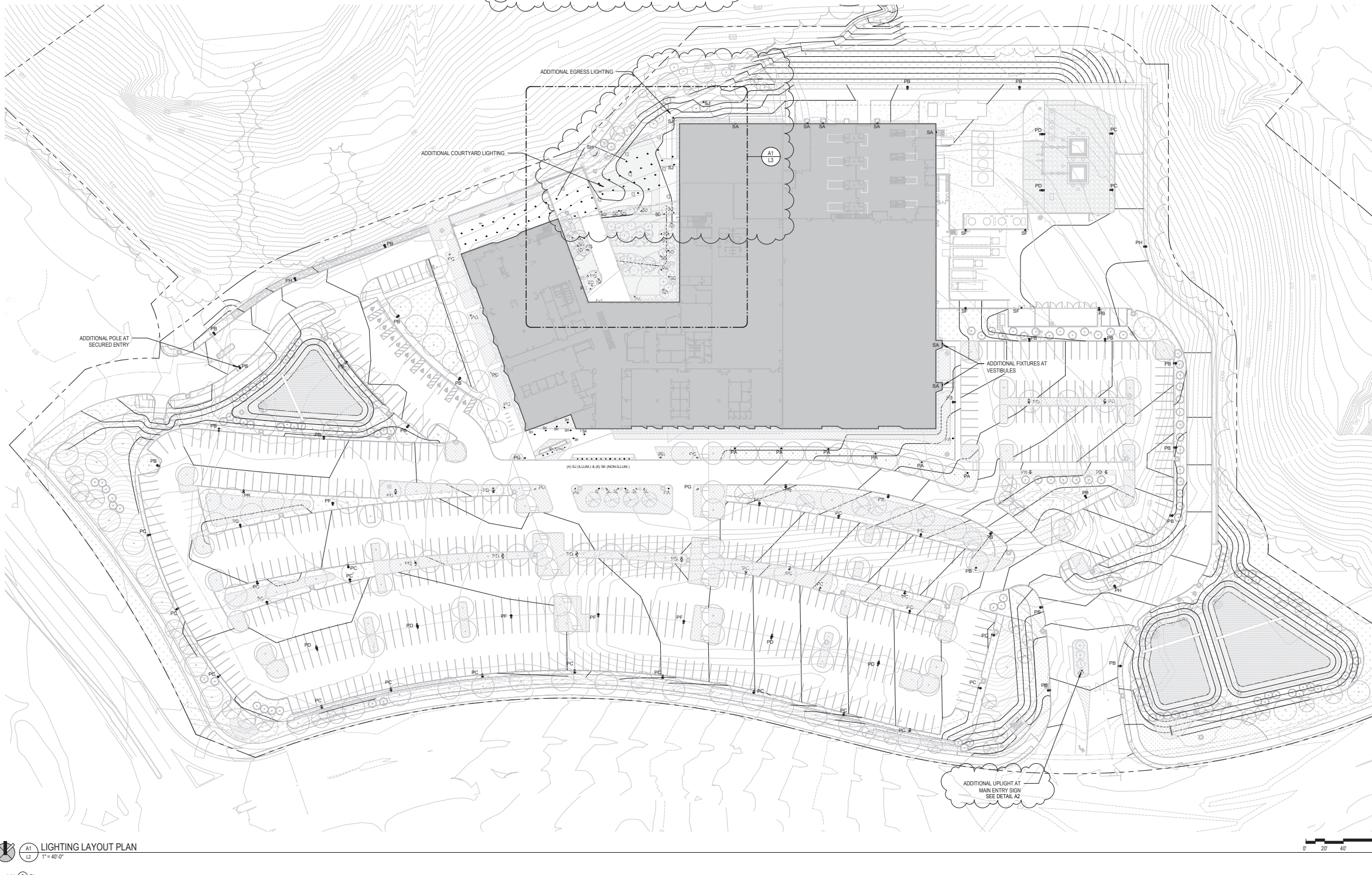
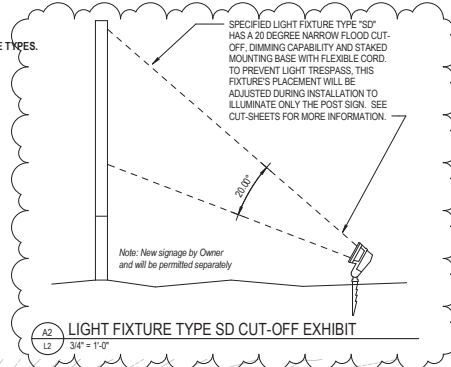
Job # | LIC# 005815

Lighting Plan

ADDITIONAL SITE LIGHTING FIXTURES

PB (1)	SD (1)

NOTE:
ADDITIONAL FIXTURES ARE CONTINUATION OF PHASE 1 FIXTURE TYPES.



A1
L2
LIGHTING LAYOUT PLAN
1" = 40'-0"

11/02/2021 10:56:16 AM

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RNA DEVELOPMENT LABORATORY EXPANSION
875 West Chesterfield Parkway
Chesterfield, MO 63017
Project Status

DESCRIPTION	DATE
ASDCP & ASDSP	09/23/2021
CITY COMMENTS	10/15/2021
CITY COMMENTS	11/02/2021

BUILDING MAP

DRAWING TITLE
SITE LIGHTING LAYOUT PLAN

DRAWING NO.
L2

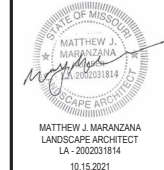
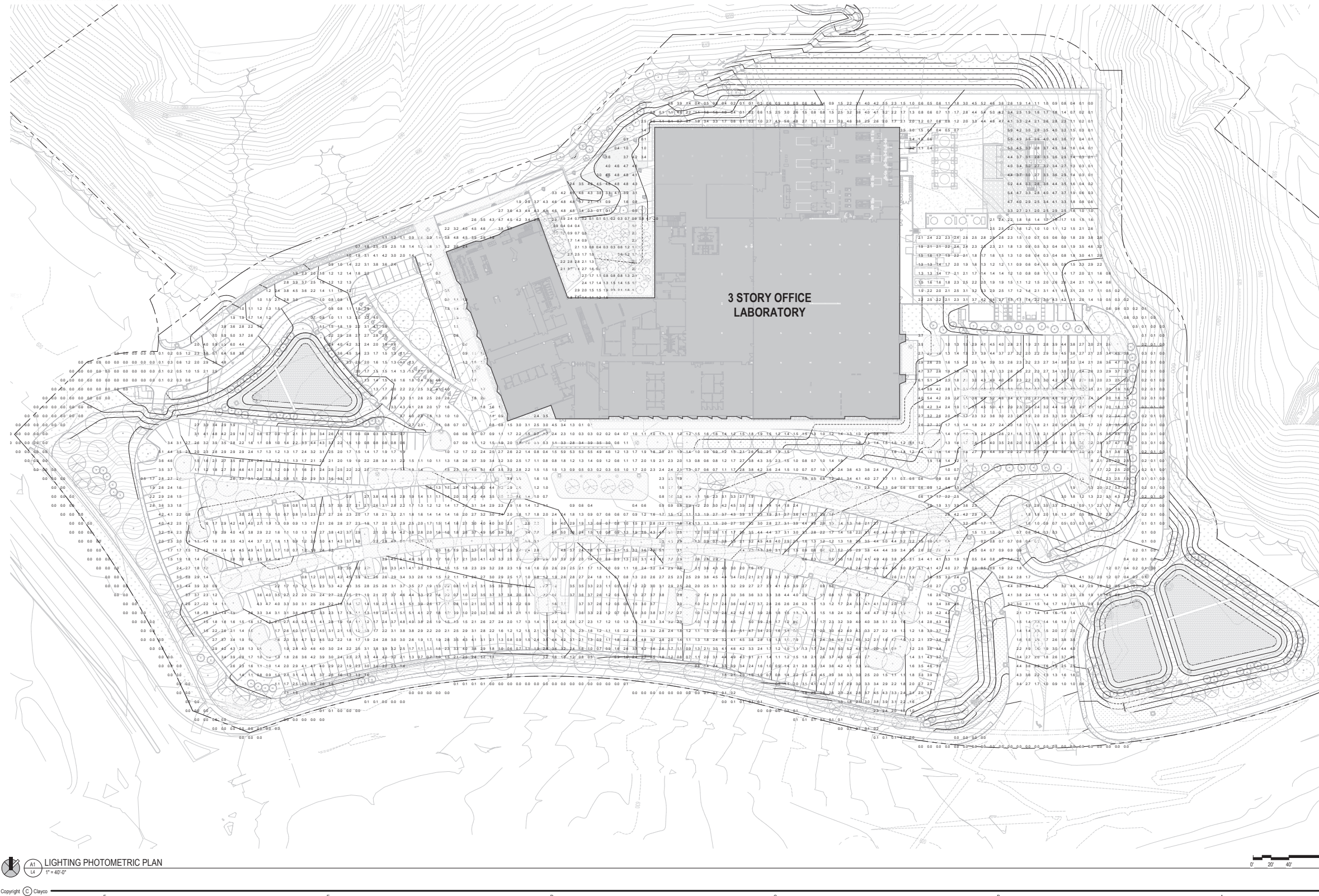
Job # | LIC# 005815



Photometric Plan

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
All site points_excluding Existing Courtyard	Illuminance	Fc	2.10	6.9	0.0	N/A	N/A
Existing Courtyard	Illuminance	Fc	1.65	4.7	0.1	14.90	47.00
Amenen SubStation	Illuminance	Fc	3.39	5.5	1.4	2.42	3.93
Approach & Drop-Off	Illuminance	Fc	1.56	5.9	0.2	9.75	29.50
East Parking	Illuminance	Fc	2.32	5.1	0.3	7.73	17.00
Main Parking	Illuminance	Fc	2.50	5.3	0.3	8.33	17.67
New Terrace	Illuminance	Fc	3.38	4.8	0.1	33.80	48.00
West Parking	Illuminance	Fc	2.68	5.9	0.3	8.93	19.67

- NOTES:
- CALCULATION PLANES ARE AT GRADE.
 - ALL TYPE 'SD' ACCENT FLOODLIGHTS SHOWN ON PLAN ARE NOT INCLUDED IN THE LIGHTING CALCULATION.



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875 West Chesterfield Parkway
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Project Status

DESCRIPTION	DATE
ASDCP & ASDSP	09/23/2021
CITY COMMENTS	10/15/2021

BUILDING MAP

DRAWING TITLE
SITE LIGHTING PHOTOMETRIC PLAN

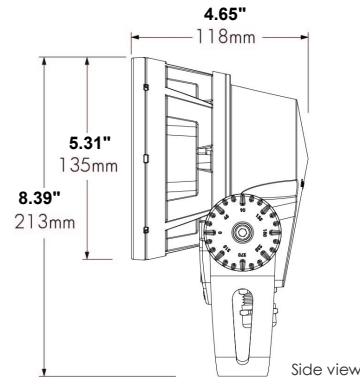
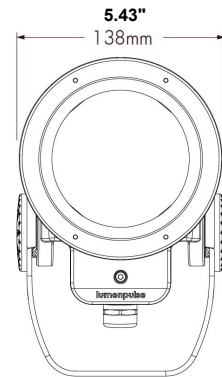
DRAWING NO.
L4

JOB NO.
LJC# 005815

Specification Sheet



Project Name **Pfizer Chesterfield** Qty _____
 Type **SD** Catalog / Part Number **LBS-XXX-30K-NF-BK-DIM-SK-3FT**
LBS-VS-BK-BK



Photometric summary

Symmetric

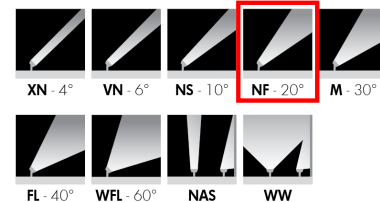
	Delivered output (lm)	Intensity (peak cd)
XN (4°)	1031	75,454
VN (6°)	824	43,590
NS (10°)	1290	18,876
NF (20°)	1125	11,338
M (30°)	1179	6532
FL (40°)	1057	2691
WFL (60°)	888	693

Asymmetric

	Delivered output (lm)	Intensity (peak cd)
NAS	861	12,737 (@2.5')
WW	1005	2739 (@5')

Based on 4000K configuration.
 Photometric performance is measured in compliance with IESNA LM-79-08.

Optics



Description

The Lumenbeam Small is a compact, IP66-rated luminaire for lighting landscapes, trees, columns, monuments, and architectural details. It has numerous options, including optics for flood or accent lighting, a choice of colour temperatures and colours, as well as various accessories, spread lenses, and controls. The luminaire also has an anti-corrosion option for use in harsh, chemical, or coastal environments.

Features

Colour and Colour Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Red, Green, Blue
Optics (nominal distribution)	XN (4°), VN (6°), NS (10°), NF (20°), M (30°), FL (40°), WFL (60°), NAS (Narrow Asymmetric), WW (Asymmetric Wallwash)
Optical Option	Linear spread lens horizontal distribution, Linear spread lens vertical distribution
Mounting Option	Stake Mounting, Knuckle Mounting, Canopy mounting option (for mounting on a standard round junction box)
Options	3G ANSI C136.31-2010 Vibration Rating for bridge applications, Corrosion-resistant coating for hostile environments
Cable Colour	Black, White
Power Consumption	12.5W
Warranty	5-year limited warranty

Performance

Maximum Delivered Output	1280lm (4000k, NS 10°)
Maximum Delivered Intensity	76,352 cd at nadir (4000K, XN 4°)
Illuminance at Distance	Minimum 1 fc at 84.1 m (4000K, XN 4°)
Colour Consistency	3 SDCM
Colour Rendering	Minimum CRI 80
Lumen Maintenance	L70 > 250,000 hrs (Ta 25 °C) (> 80,000 hrs for XN 4°, VN 6°, NAS optics only)



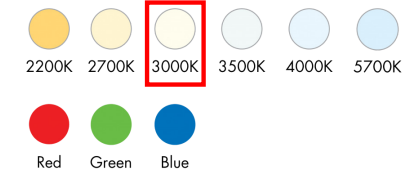
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Specification Sheet



Colours and Colour Temperatures



Controls

ON/OFF 0-10V DALI DMXrdm

Ratings

IP66 IK07

Certifications



Physical

Housing Material	Low copper content high pressure die-cast aluminium
Yoke Material	Heavy aluminium
Lens Material	Clear tempered glass
Hardware Material	Stainless steel
Gasket Material	Silicone
Surface Finish	Electrostatically applied polyester powder coat
Weight	2.36 kg
EPA	Front = 0.02 sq m, Side = 0.01 sq m

Electrical and control

Voltage	100 to 277 volts
Fixture Cable	Power and data in one cable
Conductors	3C #16-3 (NO control), 5C #16-5 (DIM, DALI control), 6C #14-3/#24-3 (DMX/RDM control)
Control	On/Off control, 0-10V dimming, DALI dimming, DMX/RDM enabled, Lumentalk system is enabled with LDB accessory - see typical wiring diagrams for details
Resolution (DMX/RDM)	Per fixture, 8-bit or 16-bit

Environmental

Storage Temperature	-40 °C to 70 °C (device must reach start-up temperature value before operating)
Start-up Temperature	-25 °C to 50 °C
Operating Temperature	-40 °C to 50 °C
Ingress Protection Rating	IP66, Wet location rated
Impact Resistance Rating	IK07

Accessories (order separately)

Optical Accessories	Snoot, Visor, Linear Spread Lens Adjustable, Wire Guard
Control Boxes	DMX/RDM enabled (daisy chain or star configuration), Ethernet enabled (daisy chain or star configuration), Lumentalk Data Bridge
Control Systems	Lumentone™ 2, Pharos® kit
Diagnostic and Addressing Tools	LumenID, LumentalkID



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Specification Sheet

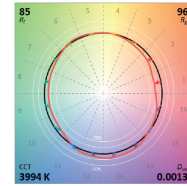
lumenbeam
Small
LBS

WHITE AND STATIC COLOURS

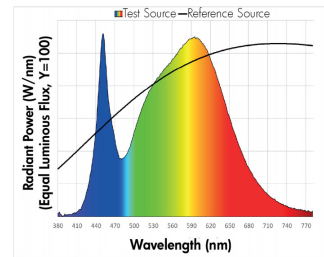
Chromaticity Data

TM-30 - 4000K

CCT	CIE	TM-30
4000K	R _a	83 85 R _i
	R _s	1.4 9.6 R _s

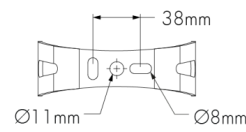


Spectral Power Distribution

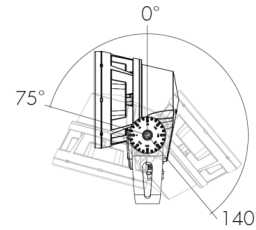


Mounting details

Mounting hole pattern - standard yoke



Adjustable pivot limits (adjustable in 6 degree increments)

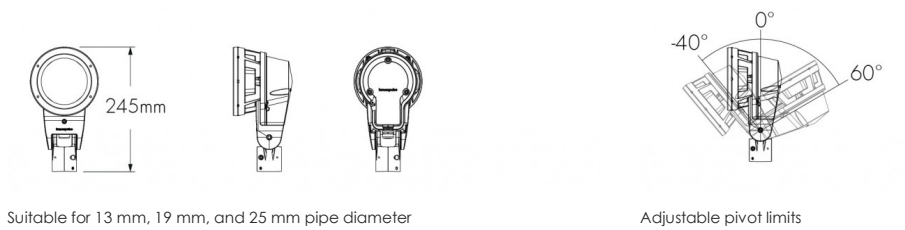


Mounting options

SK - Stake mounting



KN - Knuckle mounting



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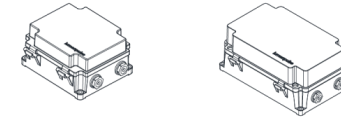
Specification Sheet

lumenbeam
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WHITE AND STATIC COLOURS

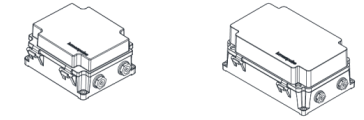
Control boxes (order separately)

CBX-DMX/RDM - DMX/RDM enabled (daisy chain or star configuration)



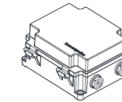
DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

CBX-ENET - Ethernet enabled (daisy chain or star configuration)



Ethernet control box. Up to four power and data outputs to fixture or fixture runs. Consult Ethernet CBX specification sheet and installation instructions for details.

LDB - Lumentalk Data Bridge



Lumentalk Data Bridge, 0-10V or DMX output. Consult LDB specification sheet for details.

Control systems (order separately)

LTN2 - Lumentone™ 2



Lumentone 2 is a simple pre-programmed DMX 512 controller with a push button rotary dial and live feedback.

PHAROS - Pharos® kit



The Pharos kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations. 2 DMX universes kit shown.

Diagnostic and addressing tools (order separately)

LID - LumenID



LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

LID-LT - LumentalkID



LumentalkID is a diagnostic and addressing tool. It must be specified for all Lumentalk (LT) applications. Consult LID-LT specification sheet for details.

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Specification Sheet

lumenbeam

Small
LBS

WHITE AND STATIC COLOURS

How to order

Housing	Voltage	Colour and Colour Temperature ⁽¹⁾	Optics	Optical Option ⁽⁸⁾	Finish	Control ⁽¹²⁾ ⁽¹³⁾	Mounting Option ⁽¹⁴⁾	Options	Certification	Cable Length ⁽¹⁶⁾ ⁽²²⁾	Cable Colour				
LBS Lumenbeam™ Small	100 100 volts	22K 2200K	XN Extra Narrow 4° ⁽⁴⁾	LSLH Linear spread lens horizontal distribution ⁽⁴⁾ ⁽⁷⁾	BK Black Sandtex®	NO On/Off control	SK Stake Mounting	3GV 3G ANSI C136.31-2010 Vibration Rating for bridge applications ⁽¹⁷⁾	UL UL compliant	3FT 0.9 m ⁽¹⁵⁾ ⁽²²⁾	BK Black				
	120 120 volts	27K 2700K	VN Very Narrow 6° ⁽⁴⁾									BRZ Bronze Sandtex®	DIM 0-10V dimming	KN Knuckle Mounting	CE CE compliant ⁽²⁰⁾ ⁽²¹⁾
	208 208 volts	30K 3000K	NS Narrow Spot 10° ⁽⁴⁾	LSLV Linear spread lens vertical distribution ⁽⁴⁾ ⁽⁷⁾	SI Silver Sandtex®	DALI DALI dimming	CN Canopy mounting option					CRC Corrosion- resistant coating for hostile environments ⁽¹⁸⁾ ⁽¹⁹⁾	20FT 6.1 m		
	220 220 volts	35K 3500K	NF Narrow Flood 20° ⁽⁴⁾	WH Smooth white	DMX/RDM DMX/RDM enabled ⁽¹⁴⁾ ⁽¹⁵⁾	CEI CE compliant Class II double insulated ⁽²⁰⁾	30FT 9.1 m								
	240 240 volts	40K 4000K	M Medium 30° ⁽⁴⁾	BKTX Textured black	15.2 m		50FT 15.2 m								
	277 277 volts	57K 5700K	FL Flood 40° ⁽⁴⁾	BRZTX Textured bronze non- metallic			70FT 21.3 m								
		RD Red ⁽²⁾ ⁽³⁾	WFL WF 60° ⁽⁴⁾	GRATX Textured medium grey			100FT 30.5 m								
		GR Green ⁽²⁾ ⁽³⁾	NAS Narrow Asymmetric ⁽⁴⁾	GRNTX Textured green											
		BL Blue ⁽²⁾ ⁽³⁾	WW Asymmetric Wallwash ⁽⁴⁾	WHIX Textured white											
				CC Custom colour and finish [please specify RAL colour] ⁽⁹⁾ ⁽¹⁰⁾ ⁽¹¹⁾											

Notes:

- Consult factory for availability of static Royal Blue, Amber, 6500K and 90+ CRI.
- Static colours made to order 8-10 weeks.
- Not available for XN optic.
- Factory installed, not interchangeable on site.
- Optical options are factory installed and cannot be changed in the field.
- Not available with VN and NF optics when combined with 2200K, 2700K, 3000K, 3500K, 4000K and 5700K static colours.
- Field adjustable spread lens optical accessory available, order separately.
- Not available with WFL, NAS and WW optics.
- Lumenpulse offers a wide selection of RAL CLASSIC (K7) colours with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colours, other RAL textures and glosses, or to match alternate colour charts. Final colour matching results may vary.
- Setup charges apply for RAL colours. Consult factory for details.
- Longer lead times can be expected for custom RAL colour finishes.
- Lumentalk system is enabled with LDB accessory. DIM or DMX/RDM must be specified in the order code. See the typical wiring diagrams in the specification sheet for details.
- A Lumentranslator 2 (LTL2) and LumentakID (LIDL) must be specified for Lumentalk applications. Consult Lumentranslator 2 and Lumentalk pages and specification sheets for details.
- A control box (CBX) and LumentID (LID) must be specified.
- Maximum of 3 ft cable length for daisy chain DMX applications with CBX-DS.
- The standard yoke is provided unless an alternate mounting option is specified as part of the order code.
- 3GV option is available for standard yoke mounting only.
- Use only when exposed to salt spray. This option is not required for normal outdoor exposure.
- Setup charges apply. Consult factory for details.
- Consult European specification sheets and installation instructions for CE and CE Class II wiring information.
- Not available with DALI control option.
- 3 ft cable length is standard unless otherwise specified.
- Not available with CE or CEI certification options.

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MS - R26

ULH-10665
Lightsoft 1 Bollard



ULH-10665
Lightsoft 1 Bollard



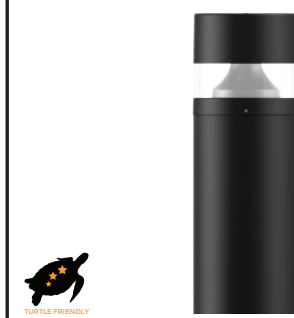
PROJECT Pfizer Chesterfield **SJ**
ULH-10665-W40-01-SB

ORDERING EXAMPLE || ULH - 10665 - 27w - W30 - 02 - 120/277v - Options

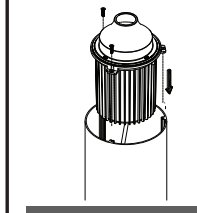
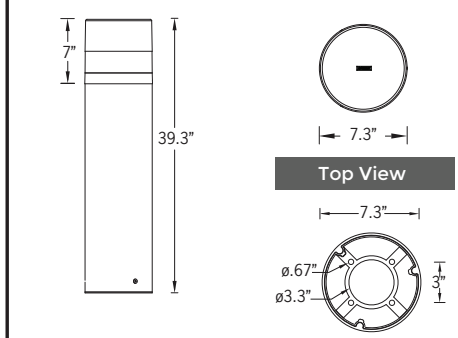
ULH-10665	LAMP	LED COLOR	FINISH COLOR	VOLTAGE	ADDITIONAL OPTIONS
	27w LED 1188 Lumens	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL INSPIRED BY NATURE FINISHES SW01 - OAK FINISH SW02 - WALNUT FINISH SW03 - PINE FINISH DF - DOUGLAS FIR FINISH CW - CHERRY WOOD FINISH NW - NATIONAL WALNUT FINISH SU01 - CONCRETE FINISH SU02 - SOFTSCAPE FINISH SU03 - STONE FINISH SU04 - CORTEN FINISH	120/277v Other - Specify	A10731 - 180° Light Shield A10831 - 90° Light Shield GFCI - GFCI Box NAT - Natatorium Rated AMB - Turtle Friendly Amber LED SB - Security Bollard A12891 - K4 Rated Security Bollaerd HGT - Custom Bollard Height [Specify HGT=XXX] DIM - 0-10v Dimming OCC1 - Single Occupancy Sensor OCC2 - Dual Occupancy Sensor A91591 - Lockable In Use GFCI Receptacle Outlet Box

More Custom Finishes Available Upon Request

Consult factory for pricing and lead times

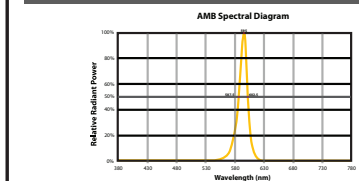


27w LED 1188 Lumens
 IP65 • Suitable For Wet Locations
 IK08 • Impact Resistant (Vandal Resistant)
 Weight 17 lbs



IP65 - Internal top access driver housing, prewired with SO cord and waterproof cable gland for easy installation.

CITY OF FLAGSTAFF & TURTLE FRIENDLY COMPLIANT



Narrow-Spectrum Amber LEDs
 Peak wavelength between 585 & 595 nanometers and a full width of 50% power no greater than 15 nanometers.



Construction

Aluminum.
 Less than 0.1% copper content - Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength, clean detailed product lines and excellent heat dissipation.

Pre-paint
 8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive - Silicon Gasket
 Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
 LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
 Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
 B1 - U3 - G1

Finishing.
 All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
 UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C. This process ensures that Ligman products can withstand harsh environments. Rated for use in natatoriums.

Inspired by Nature Finishes
 The Inspired by nature Finishing is a unique system of decorative powder coating. Our metal decoration process can easily transform the appearance of metal or aluminum product into a wood grain finish.

This patented technology enables the simulation of wood grain, and even marble or granite finish through the use of decorative powder coating.

The wood grain finish is so realistic that it's almost undistinguishable from real wood, even from a close visual inspection. The system of coating permeates the entire thickness of the coat and as a result, the coating cannot be removed by normal rubbing, chipping, or scratching.

The Coating Process
 After pre-treatment the prepared parts are powder coated with a specially formulated polyurethane powder. This powder provides protection against wear, abrasion, impact and corrosion and acts as the relief base color for the finalized metal decoration.

The component is then wrapped with a sheet of non-porous film with the selected decoration pattern printed on it using special high temperature inks.

This printed film transfer is vacuum-sealed to the surface for a complete thermo print and then transferred into a customized oven. The oven transforms the ink into different forms within the paint layer before it becomes solid. Finally, the film is removed, and a vivid timber look on aluminum remains.

Wood grain coating can create beautiful wood-looking products of any sort. There are over 300 combinations of designs currently in use. Wood grains can be made with different colors, designs, etc.

Our powder coatings are certified for indoor and outdoor applications and are backed by a comprehensive warranty. These coatings rise to the highest conceivable standard of performance excellence and design innovation.

- Added Benefits**
- Resistance to salt-acid rain, accelerated aging
 - Boiling water, lime and condensed water resistant
 - Anti-Graffiti, Anti-Slip, Anti-Microbial, Anti-Scratch
 - Super durable (UV resistant)
 - TGIC free (non-toxic)

Hardware
 Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
 Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
 Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
 Precise optic design provides exceptional light control and precise distribution of light.
 LED CRI > 80

Lumen - Maintenance Life
 L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

Indirect light-emitting bollard range. Smooth and sharp devised bollard family with wonderful soft controlled lighting options.

The innovative reflector technology of the Lightsoft bollard guarantees a high degree of efficiency and optimal visual comfort. Lightsoft has been developed to have excellent controlled downward light providing wide spacing ratios. It has three light shield accessories with different light distributions. The Lightsoft is available in a cylindrical or square shape design with two different heights.

The Lightsoft Bollard comes standard with a unique waterproof internal driver housing compartment that is situated at the top of the pole to stop water and dust from entering the electrical components. This fixture is supplied completely wired with powercord and waterproof gland from the driver enclosure to the base of the bollard ensuring quick trouble-free installation. Custom bollard heights are available, please specify.

Color temperature 2700K, 3000K, 3500K and 4000K. Custom wattages can be provided to suit customer and Title 24 requirements. (Specify total watts per fixture)

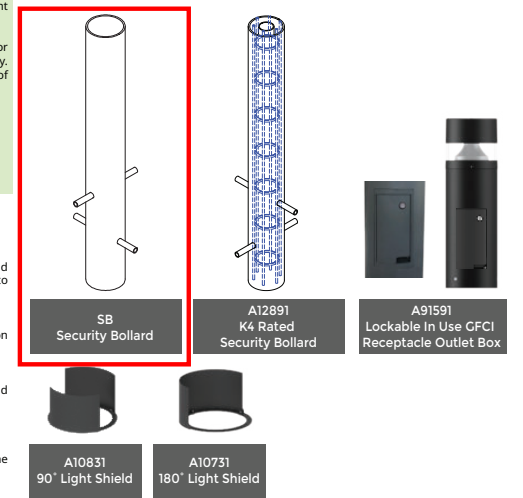
All Ligman fixtures can be manufactured using a special pre-treatment and coating process that ensures the fixture can be installed in natatoriums as well as environments with high concentrations of chlorine or salt and still maintain the 5 year warranty. For this natatorium rated process please specify NAT in options.

Security Bollard:
 This Bollard is available as a traffic rated security bollard. This optional design includes a 1/4" wall thickness galvanized steel security pole with 2 1" galvanized cross support rods that are embedded into concrete.

The standard security bollard provides restraint of vehicular traffic in unauthorized areas. Impact calculations shows this bollard will stop a 5,500lb/2.75 tons vehicle, travelling at 30mph. For additional strength, the galvanized pole must be filled with concrete up to the waterproof driver housing to provide a solid concrete barrier.

A K4 rated security bollard is also available. This bollard is provided with internal reinforcement and is to be filled with concrete at the job site by others. This bollard will stop a 15,000lb vehicle traveling at 30mph.

Additional Options (Consult Factory For Pricing)



Project	Pfizer Chesterfield	Catalog #	LD6B30D010 EU6B30408030 6LBS2LI HB26	Type	SH
Prepared by		Notes		Date	



Portfolio

LDS6B | EU6B | 6LBS

6" round, new construction shallow downlight

Typical Applications

Office • Education • Healthcare • Hospitality • Retail • Code-Compliance Areas • Sports Venues

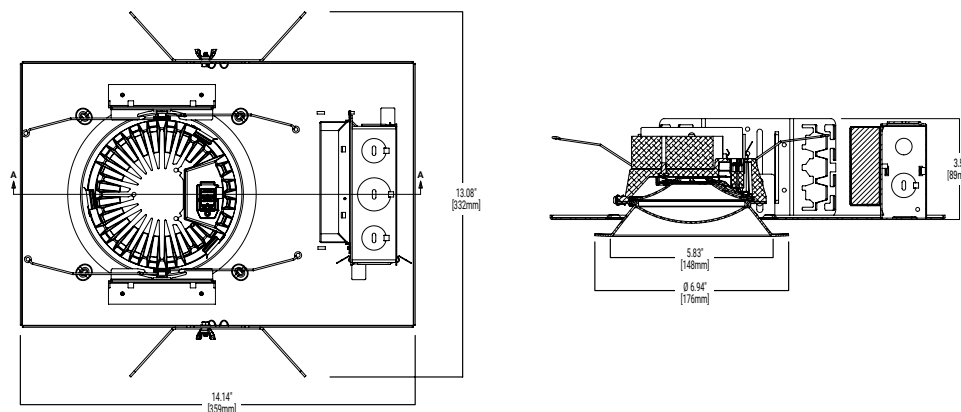
Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Energy Data page 4
- Photometric Data page 4
- Connected System page 5
- Product Warranty

Top Product Features

- 500, 1000, 1500, 2000, 3000 lumens
- 2400K, 2700K, 3000K, 3500K, 4000K, 5000K color temperature
- For standard or shallow plenum heights
- Dim-to-warm technology
- Tuneable white technology

Dimensional and Mounting Details



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April 16, 2021 2:04 PM

Portfolio

LDS6B | EU6B | 6LBS

Order Information

SAMPLE ORDER NUMBER: LDS6B10D010-EU6B102027-6LBS1MW

Housing	Lumens	Driver
LDS6B = 6" Downlight 6" nominal aperture LDS6B30 = 6" Downlight 6" nominal aperture, Chicago Plenum	05 = 500 Lumens ⁽¹⁾ 10 = 1000 Lumens 15 = 1500 Lumens 20 = 2000 Lumens 30 = 3000 Lumens	D010 = 0-10V Dimming, 1% to 100%, 120V-277V D010R = 0-10V or Line Voltage Dimming, 3% to 100%, 120V-277V DE010 = 0-10V Linear Dimming, 0% to 100%, 120V-277V DSLT = Fifth Light® DALI DT6 Logarithmic Dimming, 0% to 100%, 120V-277V DMX = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V ⁽⁶⁾ DMXC5 = DMX/RDM Logarithmic Dimming, 0% to 100%, 120V-277V, with RJ45 connection DL2 = Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DLE = Lutron Ecosystem dimming 1% to 100%, 120V-277V DLV = Low voltage dimming driver (1-100%) for use with DLVP system ⁽²⁾
Notes	Notes	Notes
	(1) Nominal lumens will vary depending on selected color, driver and reflector finish. (10) Limited to D010 drivers	(2) Non-IC (3) Not available with Chicago Plenum. (6) DMX fixtures default to full on upon loss of DMX signal.

Power Module	Lumen	CRI / CCT
EU6B = 6" Universal LED Module	1020 = 1000, 1500, 2000 Lumens 3040 = 3000 Lumens	80 CRI 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K
Notes	Notes	Notes
	(1) Nominal lumens will vary depending on selected color, driver and reflector finish.	90 CRI 24 = 2400K 27 = 2700K 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K
	Dim 2 Warm 109030D2W = 1000 lumen, 90 CRI, Dim 2 Warm, IC rated 159030D2W = 1500 lumen, 90 CRI, Dim 2 Warm, IC rated 209030D2W = 2000 lumen, 90 CRI, Dim 2 Warm 309030D2W = 1000 lumen, 90 CRI, Dim 2 Warm	Tunable White 1020W2N902050 = 1000, 1500, 2000 lumens, 90 CRI, tunable white 2000K-5000K 1020W2N902650 = 1000, 1500, 2000 lumens, 90 CRI, tunable white 2700K-6500K

Reflector	Flange	Finish
6LBS = 6" Shallow wide beam spun aluminum 6LBS3 = 6" Shallow wide beam die cast 6LBS6 = 6" Shallow non-conductive, injection molded white (self flanged white only)	0 = White polymer trim ring 1 = Self-flanged (finish is the same as the reflector) 2 = White painted self-flanged	Spun reflectors LI = Specular Clear H = Semi-Specular Clear WMH = Warm Haze WH = Wheat GPH = Graphite Haze B = Specular Black
Notes	Notes	Notes
		Die Cast reflectors MW = Matte White MB = Matte Black MMS = Matte Metallic Silver

Accessories
HSA6 = Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments TRM6 = Metal Trim Ring, Specify Color LGSKT AIP66 = IP66 Gasket Kit PRR6 = Rimless Plaster Ring for Flush Mount (order reflector with polymer ring)
Bar Hangers HB26 = C-channel Bar Hanger, 26" Long, Pair HB30 = C-channel bar hanger, 30" Long, Pair RMB22 = Wood Joist Bar Hanger, 22" Long, Pair
Connected Lighting Systems ⁽⁷⁾ WTA = Field installed WaveLinX sensor Kit ⁽⁸⁾ WTK = Field installed WaveLinX Lite Sensor Kit ⁽⁹⁾
Notes
(7) Refer to system specifications for additional information, features, and benefits. Order either factory installed option or accessory. (8) WTA = WaveLinX wireless sensor kit for daylight dimming, PIR motion sensing, and optional RTS - Real Time Location Services, use with 0-10V only. (9) WTK = WaveLinX Lite tile mount sensor kit for daylight dimming, PIR motion sensing, use with D010 only (Refer to WaveLinX Lite system specifications)



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Portfolio

LDS6B | EU6B | 6LBS

Product Specifications

Lower Shielding Reflector

- Painted die cast aluminum, spun aluminum or non-conductive injection molded lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness
- Spun reflectors are offered in all Portfolio Alzak® finishes
- Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface
- Plaster lathing ring accessory offered for flush reflector transition

Plaster Frame

- Galvanized steel plaster frame designed for ceiling thickness from 1/2" to 1-1/4-inch
- Universal mounting bracket accepts 1/2" EMT, C channel and bar

Junction box

- Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring
- (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs

Thermal

- Aluminum heat sink conducts heat away from the LED module for optimal performance and long life

LED

- Chip on board with a multitude of highly efficient white LEDs, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation.
- Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LEDs are turned off when safe operating temperatures are exceeded.
- Color variation within 2-step MacAdam ellipses. Flexible disconnect allows for tool-less replacement of LED engine from below ceiling

- Available in 80, 90 or 97 CRI.
 - D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.
 - W2N - Tunable white CCT range 2700K to 6500K or 2000K to 5000K, 90 CRI. Standard (requires above ceiling access)

Driver

- 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%
- Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem
- W2N, DMX, DE010, and D5LT require above ceiling access and all other drivers can be accessed from above or through the aperture
- Distributed low voltage power system combines power, lighting, and controls with ease of installation.

Connected Lighting System Options

Two WaveLinX connected systems to choose from. Refer to WaveLinX system specifications and application guides for details.

WaveLinX Wireless System Tilemount Sensor Kit

- WaveLinX Wireless WTA tile mount sensor kit offers daylight dimming, PIR motion sensing, scene and zone configuration, automatic commissioning; and optional RLTS - Real Time Location Services available.

WaveLinX Lite System Tilemount Sensor Kit

- WaveLinX Lite WTK tile mount sensor kit offers daylight dimming and PIR motion sensing, scene and grouping configuration.

WaveLinX Tilemount Kits Application

- The WTA and WTK tilemount kits include a control module mounted on the luminaire junction box via 1/2" knock-out, and a tilemount sensor on 54-inch

- whip; for ceiling installation by direct-mount spring clips or via mounting bracket in octagon ceiling boxes.
- The WTA and WTK tilemount kits may be ordered as factory installed on the luminaire, or ordered separately as a field installed accessory kit.

Code Compliance

- Thermally protected and cULus listed for protected wet locations
- IP66 rated when used with IP66 gasket kit accessory
- Optional City of Chicago environmental air (CCEA) marking for plenum applications
- EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits
- IC rated up to 1500 lumens
- 2000 lumen and above are non-IC rated - insulation must be kept 3" from top and sides of housing
- RoHS Compliant
- Photometric testing completed in accordance with IES LM 79 and TM-30 standards
- LED life testing completed in accordance with LM 80 standards

Warranty

- Five year warranty



Portfolio

LDS6B | EU6B | 6LBS

Energy and Performance Data

Energy Data
Sound Rating: Class A standards
(Values at non-dimming line voltage)
Minimum Starting Temperature: -30°C (-22°F)
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)
Input Voltage: UNV (120V - 277V)
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)
Input Frequency: 50/60Hz

Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027

1000 Lumen D010	
Input power: 11W	THD: <14%
120V input current: 0.09A	277V Input Current: 0.04A

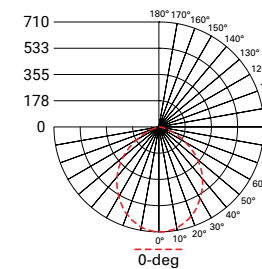
1500 Lumen D010	
Input power: 15.5W	THD: <13%
120V input current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010	
Input power: 21.2W	THD: <9%
120V input current: 0.18A	277V Input Current: 0.08A

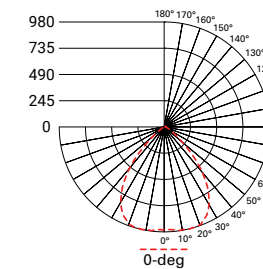
3000 Lumen D010	
Input power: 27.6W	THD: <10%
120V input current: 0.23A	277V Input Current: 0.10A

[View IES files](#)

Photometric Data



Test Report: P35144
 Housing: LD6B15D010
 Module: EU6B10208035
 Trim: 6LBCS1MMS
 Lumens: 1546.1
 Input Watts: 14W
 Efficacy: 110.4 Lm/W



Test Report: P201213
 Housing: LD6B15D010
 Module: EU6B10208035
 Trim: 6LBW1LI
 Lumens: 1519.0
 Input Watts: 14.3W
 Efficacy: 106.2 Lm/W



Portfolio

LDS6B | EU6B | 6LBS

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- Photometric testing completed in accordance with IES LM 79 and TM-30 standards
- LED life testing completed in accordance with LM 80 standards

Warranty

- Five year warranty

Portfolio

LDS6B | EU6B | 6LBS

Energy and Performance Data

Energy Data
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(Values at non-dimming line voltage)
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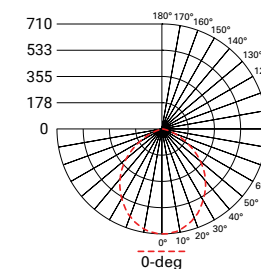
1500 Lumen D010	
Input power: 15.5W	THD: <13%
120V input current: 0.13A	277V Input Current: 0.06A

2000 Lumen D010	
Input power: 21.2W	THD: <9%
120V input current: 0.18A	277V Input Current: 0.08A

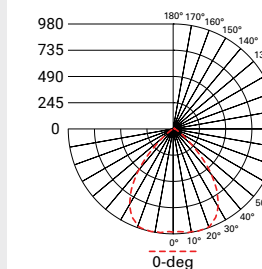
3000 Lumen D010	
Input power: 27.6W	THD: <10%
120V input current: 0.23A	277V Input Current: 0.10A

View IES files

Photometric Data



Test Report: P35144
 Housing: LD6B15D010
 Module: EU6B10208035
 Trim: 6LBCS1MMS
 Lumens: 1546.1
 Input Watts: 14W
 Efficacy: 110.4 Lm/W



Test Report: P201213
 Housing: LD6B15D010
 Module: EU6B10208035
 Trim: 6LBW1LI
 Lumens: 1519.0
 Input Watts: 14.3W
 Efficacy: 106.2 Lm/W

McGraw-Edison

DESCRIPTION

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

Catalog #	GLEON-AF-02-LED-E1-T3-BZ-7 030-TH-LCF SSP17.5-4.0-11 -BRZ-DM10-BC (MCGRAW, KW)	Type	PB
Project			
Comments	Pfizer Chesterfield		
Prepared by			

SPECIFICATION FEATURES

Construction

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

Optics

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

Electrical

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

Mounting

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

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

Finish

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

Warranty

Five-year warranty.

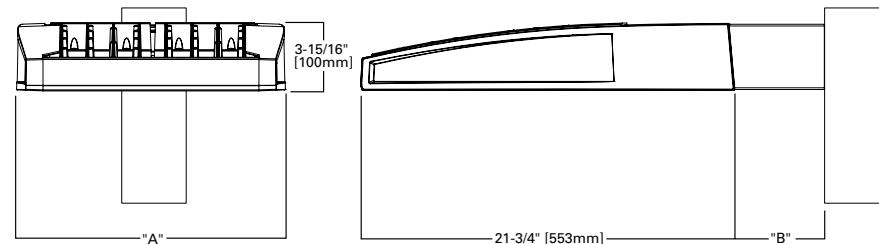


GLEON GALLEON LED

1-10 Light Squares
Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



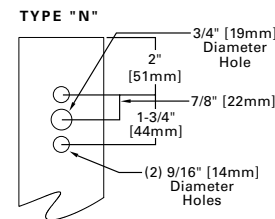
DIMENSION DATA

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

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



DRILLING PATTERN



*www.designlights.org



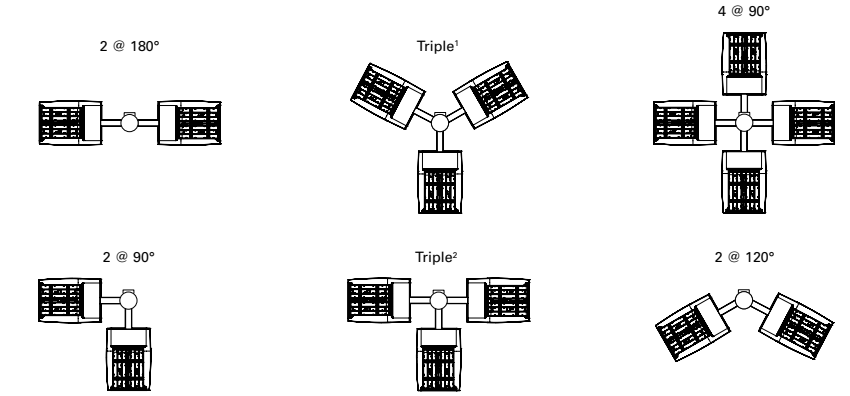
CERTIFICATION DATA
3G Vibration Rated
DesignLights Consortium® Qualified*
Dark Sky Approved (3000K CCT and warmer only)
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

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

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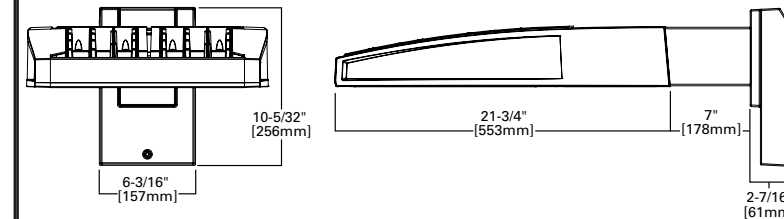
ARM MOUNTING REQUIREMENTS

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

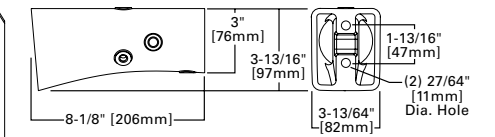


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

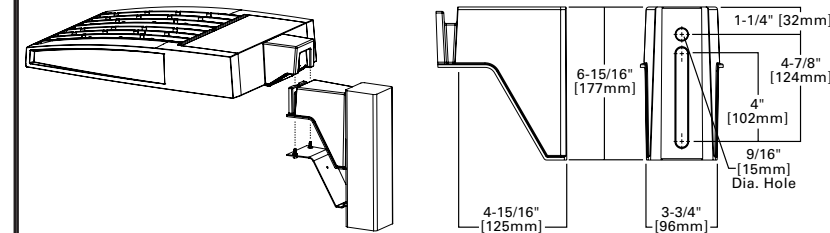
STANDARD WALL MOUNT



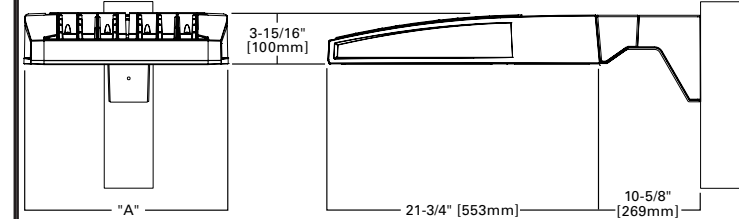
MAST ARM MOUNT



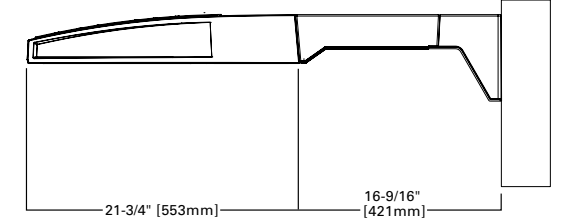
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)



QUICK MOUNT ARM DATA

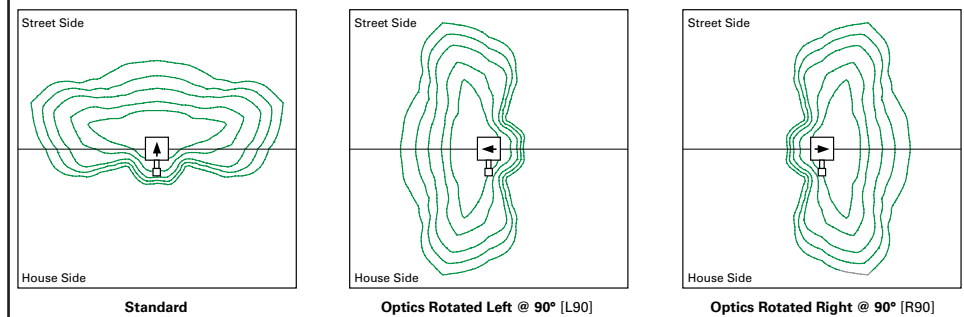
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ²	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

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

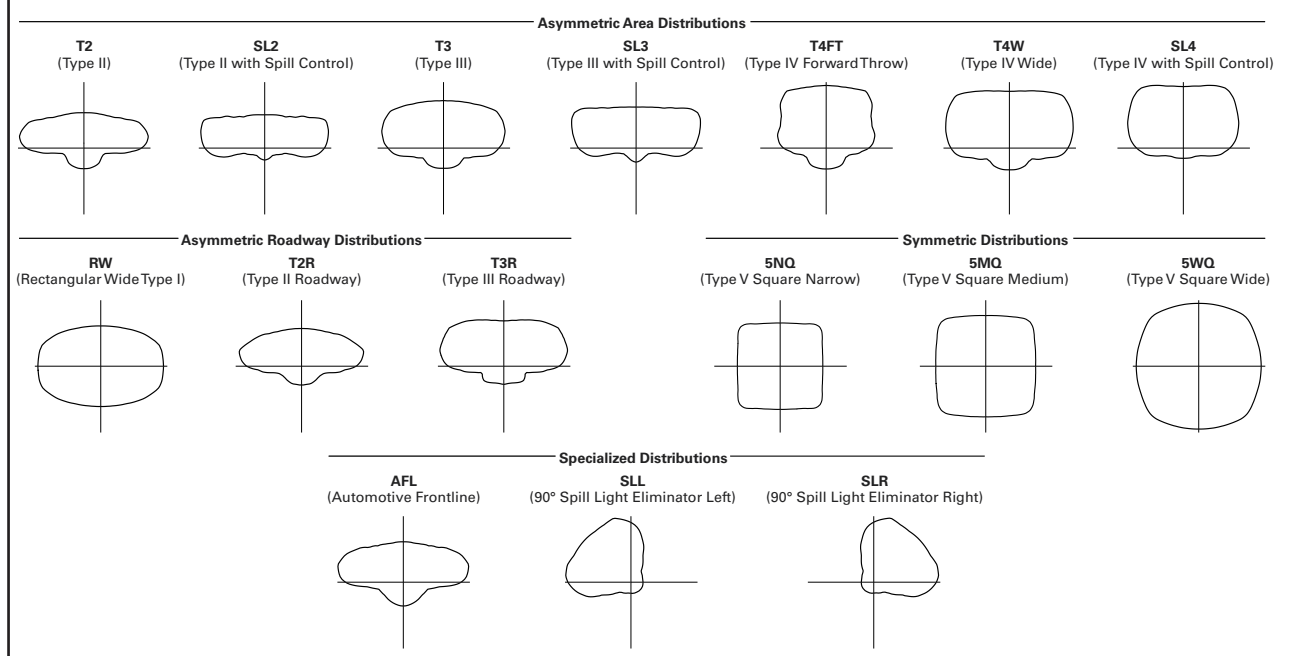


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OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

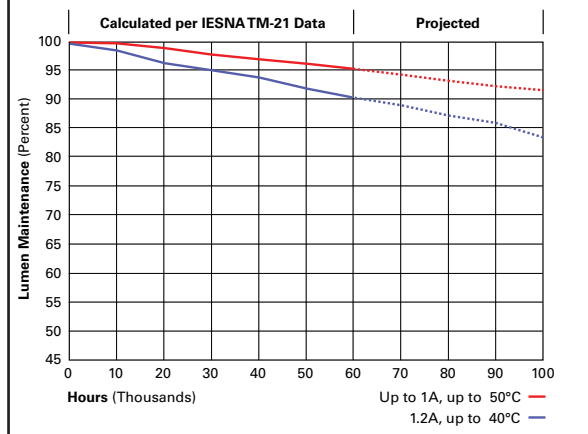


LUMEN MAINTENANCE

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

LUMEN MULTIPLIER

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



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NOMINAL POWER LUMENS (1.2A)

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

* Nominal data for 70 CRI.



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page 5 **GLEON GALLEON LED**

NOMINAL POWER LUMENS (1A)

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

* Nominal data for 70 CRI.



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NOMINAL POWER LUMENS (800MA)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Nominal Power (Watts)	44	85	124	171	210	249	295	334	374	419	
Input Current @ 120V (A)	0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80	
Input Current @ 208V (A)	0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12	
Input Current @ 240V (A)	0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84	
Input Current @ 277V (A)	0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67	
Input Current @ 347V (A)	0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52	
Input Current @ 480V (A)	0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96	
Optics											
T2	4000K/5000K Lumens	5,054	9,878	14,739	19,475	24,129	28,875	34,148	38,691	43,159	47,785
	3000K Lumens	4,779	9,338	13,935	18,412	22,813	27,301	32,286	36,581	40,805	45,179
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25,616	30,654	36,252	41,076	45,819	50,730
	3000K Lumens	5,074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47,964
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,153	10,068	15,022	19,849	24,593	29,430	34,805	39,436	43,990	48,705
	3000K Lumens	4,872	9,519	14,203	18,766	23,251	27,825	32,907	37,285	41,591	46,048
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	5,266	10,292	15,356	20,290	25,140	30,084	35,578	40,312	44,968	49,786
	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
	3000K Lumens	4,771	9,322	13,911	18,381	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G		

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NOMINAL POWER LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)	59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)	0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)	0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)	0.26	0.48	0.71	0.96	1.19	1.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)	0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)	0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)	0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28

Optics

Model	4000K/5000K Lumens	3000K Lumens	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2	4000K/5000K Lumens	6,256	5,915	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	3000K Lumens	5,915	5,915	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	6,280	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,280	6,280	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	6,377	6,029	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,029	6,029	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3R	4000K/5000K Lumens	6,518	6,029	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	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,029	6,029	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	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	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	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4FT	4000K/5000K Lumens	6,414	6,064	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,064	6,064	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4W	4000K/5000K Lumens	6,331	5,986	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	5,986	5,986	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL2	4000K/5000K Lumens	6,245	5,904	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	5,904	5,904	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL3	4000K/5000K Lumens	6,376	6,028	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,028	6,028	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
SL4	4000K/5000K Lumens	6,058	5,727	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4
	3000K Lumens	5,727	5,727	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G4
5NQ	4000K/5000K Lumens	6,577	6,218	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	3000K Lumens	6,218	6,218	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
	BUG Rating	B2-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
5MQ	4000K/5000K Lumens	6,697	6,332	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	3000K Lumens	6,332	6,332	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5WQ	4000K/5000K Lumens	6,715	6,348	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	3000K Lumens	6,348	6,348	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
SLL/SLR	4000K/5000K Lumens	5,604	5,298	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K Lumens	5,298	5,298	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
RW	4000K/5000K Lumens	6,517	6,162	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	3000K Lumens	6,162	6,162	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	6,541	6,184	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2
	3000K Lumens	6,184	6,184	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2	B3-U0-G2

* Nominal data for 70 CRI.



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page 8 **GLEON GALLEON LED**

CONTROL OPTIONS

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

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

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

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

FSIR-100
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'.

For mounting heights up to 8' (-L08 - Cutoff 8' to 24')

Coverage Side Area (Feet)

For mounting heights up to 40' (-L40W)

Coverage Side Area (Feet)

For mounting heights up to 20' (-L20)

Coverage Side Area (Feet)

For mounting heights from 8' to 16' (LWR-LW)

Coverage Side Area (Feet)

For mounting heights from 16' to 40' (LWR-LN)

Coverage Side Area (Feet)

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

WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)
The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomical or time schedules based on a 7 day week.

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

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

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ORDERING INFORMATION

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


Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ^{7,8}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4=Type IV Forward Throw T4W=Type IV Wide 5N0=Type V Narrow 5M0=Type V Square Medium 5W0=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA= Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ OMEA=Quick Mount Arm (Extended Length) ¹²

Options (Add as Suffix)	Accessories (Order Separately)
<p>7027=70 CRI 2700K¹³</p> <p>7030=70 CRI 3000K¹³</p> <p>8030=80 CRI 3000K¹³</p> <p>7050=70 CRI 5000K¹³</p> <p>7060=70 CRI 6000K¹³</p> <p>AMB=Amber, 590nm^{14,15}</p> <p>600=Drive Current Set to Nominal 600mA¹⁵</p> <p>800=Drive Current Set to Nominal 800mA¹⁵</p> <p>1200=Drive Current Set to Nominal 1200mA^{15,16}</p> <p>F=Single Fuse (120, 277 or 347V. Specify Voltage)</p> <p>FF=Double Fuse (208, 240 or 480V. Specify Voltage)</p> <p>2L=Two Circuits^{17,18}</p> <p>DIM=External 0-10V Dimming Leads^{19,20}</p> <p>DIM10=Synapse Integrated Control Module^{14,19}</p> <p>AHD145=After Hours Dim, 5 Hours²²</p> <p>AHD245=After Hours Dim, 6 Hours²²</p> <p>AHD255=After Hours Dim, 7 Hours²²</p> <p>AHD355=After Hours Dim, 8 Hours²²</p> <p>HA=50°C High Ambient²³</p> <p>L90=Optics Rotated 90° Left</p> <p>R90=Optics Rotated 90° Right</p> <p>MT=Installed Mesh Top</p> <p>TH=Tool-less Door Hardware</p> <p>HSS=Installed House Side Shield²⁸</p> <p>CE=CE Marking²⁹</p> <p>LCF=Light Square Trim Painted to Match Housing²⁷</p> <p>P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage)²¹</p> <p>PER7=NEMA 7-PIN Photocontrol Receptacle²¹</p> <p>R=NEMA Photocontrol Receptacle²¹</p> <p>MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height²⁴</p> <p>MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height²⁴</p> <p>MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height²⁴</p> <p>MS/DIM-L08= Motion Sensor for Dimming Operation, Maximum 8' Mounting Height²⁴</p> <p>MS/DIM-L20= Motion Sensor for Dimming Operation, 9' - 20' Mounting Height²⁴</p> <p>MS/DIM-L40W= Motion Sensor for Dimming Operation, 21' - 40' Mounting Height²⁴</p> <p>MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{24,25}</p> <p>MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{24,25}</p> <p>MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{24,25}</p> <p>LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height²⁶</p> <p>LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height²⁶</p> <p>ZW=WaveLinX-enabled Module and 4-PIN Receptacle^{18,33}</p> <p>ZD=WaveLinX-enabled Module with DALI driver and 4-PIN Receptacle^{18,33}</p> <p>SWPD4XX=WaveLinX Sensor Only, 15'-40'^{22,34}</p> <p>SWPD5XX=WaveLinX Sensor Only, 15'-40'^{22,34}</p> <p>WOFXX=WaveLinX Sensor with Bluetooth, 7'-15'^{22,34}</p> <p>WOFXX=WaveLinX Sensor with Bluetooth, 15'-40'^{22,34}</p> <p>GRSBK=Glare Reducing Shield, Black³⁶</p> <p>GRSWH=Glare Reducing Shield, White³⁶</p>	<p>OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V</p> <p>OA/RA1027=NEMA Photocontrol - 480V</p> <p>OA/RA1201=NEMA Photocontrol - 347V</p> <p>OA/RA1013=Photocontrol Shorting Cap</p> <p>OA/RA1014=120V Photocontrol</p> <p>MA1025=10kV Surge Module Replacement</p> <p>MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1037-XX-2=180° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1197-XX-3=120° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1188-XX-4=90° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1189-XX-2=90° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1190-XX-3=90° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1191-XX-2=120° Tenon Adapter for 2-3/8" O.D. Tenon</p> <p>MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1039-XX-2=180° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1192-XX-3=120° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1193-XX-4=90° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1194-XX-2=90° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>MA1195-XX-3=90° Tenon Adapter for 3-1/2" O.D. Tenon</p> <p>FSIR-100=Wireless Configuration Tool for Occupancy Sensor²⁴</p> <p>GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares</p> <p>GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares</p> <p>GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares</p> <p>GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares</p> <p>GLEON-QM=Quick Mount Arm Kit¹¹</p> <p>GLEON-OMEA=Quick Mount Extended Arm Kit¹²</p> <p>LS/HSS=Field Installed House Side Shield^{28,30}</p> <p>WOLC-7P-10A=WaveLinX Outdoor Control Module^{18,31}</p> <p>SWPD4-XX=WaveLinX Wireless Sensor, 7' - 15' Mounting Height^{18,32,33,34}</p> <p>SWPD5-XX=WaveLinX Wireless Sensor, 15' - 40' Mounting Height^{18,32,33,34}</p>

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (OMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (OMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. 14 Available in 800mA only. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with Enlighted wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 25 Replace X with number of Light Squares operating in low output mode. 26 Enlighted wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.cooperlighting.com/lighting for Enlighted application information. 27 Not available with house side shield (HSS). 28 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 29 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 30 One required for each Light Square. 31 Requires PER7. 32 Requires ZW or ZD receptacle. 33 WAC Gateway required to enable field-configurability. Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34 Replace XX with sensor color (WH, BZ or BK). 35 Narrow-band 590nm +/-5nm for wildlife and observatory use. Supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option. 36 Not for use with T4FT, T4W or SL4 optics. See IES files for details.

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

Product Family	Camera Type	Data Backhaul	Networking
L=LumenSafe Technology* 	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card	W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.



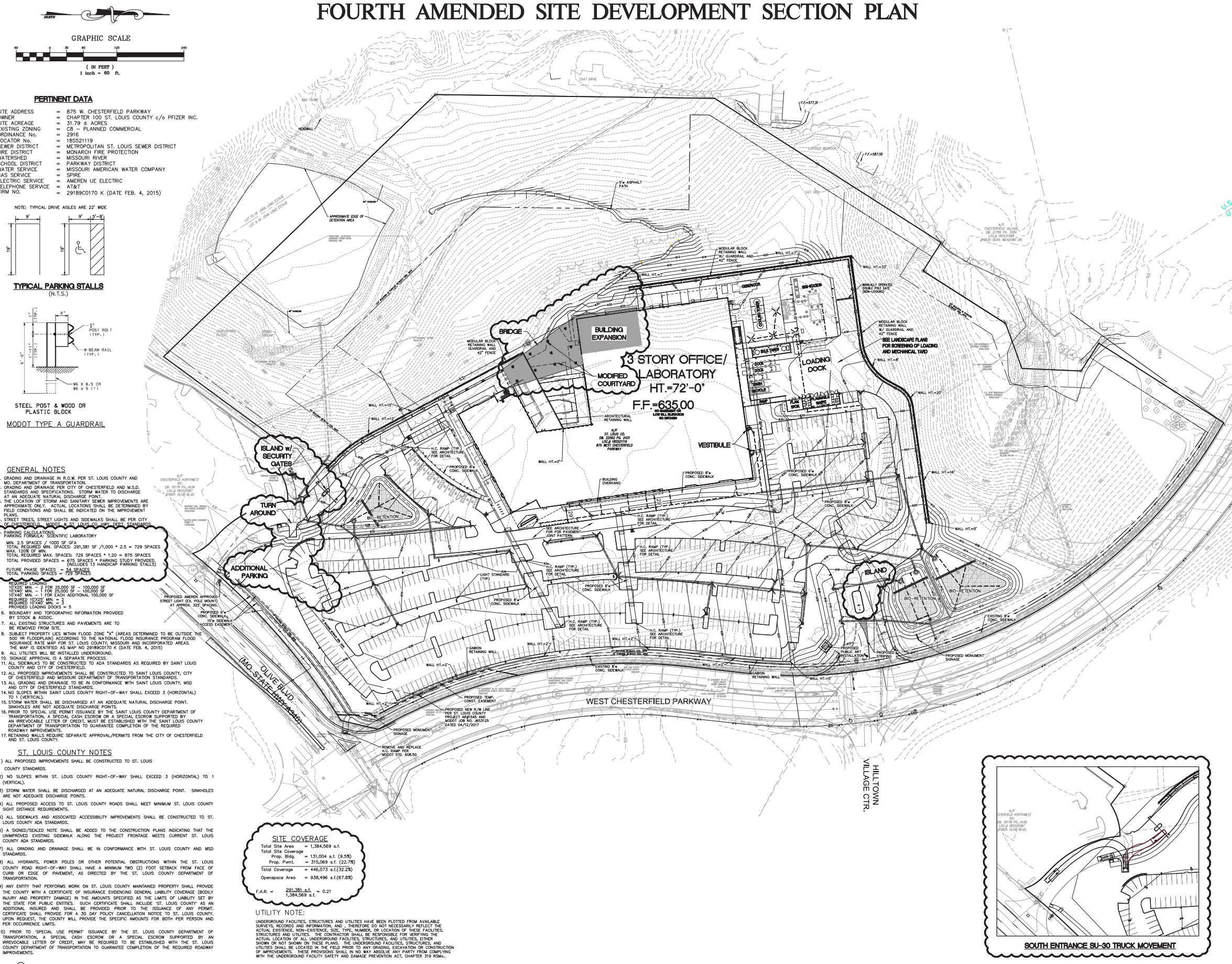
Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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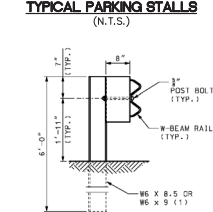
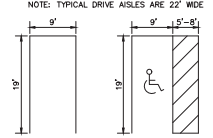


FOURTH AMENDED SITE DEVELOPMENT SECTION PLAN



PERTINENT DATA

SITE ADDRESS = 875 W. CHESTERFIELD PARKWAY
 OWNER = CHAPTER 100 ST. LOUIS COUNTY c/o PFIZER INC.
 SITE ACREAGE = 31.79 ± ACRES
 EXISTING ZONING = C3 - PLANNED COMMERCIAL
 ORDINANCE No. = 2916
 LOCATOR No. = 185521119
 SEWER DISTRICT = METROPOLITAN ST. LOUIS SEWER DISTRICT
 FIRE DISTRICT = MONARCH FIRE PROTECTION
 WATERSHED = MISSOURI RIVER
 SCHOOL DISTRICT = PARKWAY DISTRICT
 WATER SERVICE = MISSOURI AMERICAN WATER COMPANY
 GAS SERVICE = SPIRE
 ELECTRIC SERVICE = AMEREN UE ELECTRIC
 TELEPHONE SERVICE = AT&T
 FIRM NO. = 29189C0170 K (DATE FEB. 4, 2015)



STEEL POST & WOOD OR PLASTIC BLOCK
 MODOT TYPE A GUARDRAIL

GENERAL NOTES

1. GRADING AND DRAINAGE IN R.O.W. PER ST. LOUIS COUNTY AND MD. DEPARTMENT OF TRANSPORTATION.
2. GRADING AND DRAINAGE PER CITY OF CHESTERFIELD AND M.S.D. STANDARDS AND SPECIFICATIONS. STORM WATER TO DISCHARGE AT AN ADEQUATE NATURAL DISCHARGE POINT.
3. THE LOCATION OF STORM AND SANITARY SEWER IMPROVEMENTS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS SHALL BE DETERMINED BY FIELD CONDITIONS AND SHALL BE INDICATED ON THE IMPROVEMENT PLANS.
4. STREET TREES, STREET LIGHTS AND SIDEWALKS SHALL BE PER CITY OF CHESTERFIELD, MODOT & ST. LOUIS COUNTY ADA DEPT. STANDARDS.
5. PARKING CALCULATIONS: SCIENTIFIC LABORATORY
 MIN. 2.5 SPACES / 1,000 SF OF FLOOR AREA
 TOTAL REQUIRED MIN. SPACES: 291,361 SF / 1,000 ± 2.5 = 729 SPACES
 TOTAL PROVIDED SPACES = 729 SPACES * 1.20 = 875 SPACES
 TOTAL PROVIDED SPACES = 875 SPACES (INCLUDES 13 HANDICAP PARKING STALLS)
 FUTURE PHASE SPACES = 729 SPACES
 TOTAL PARKING SPACES = 729 SPACES
6. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY STOCK & ASSOC.
7. ALL EXISTING STRUCTURES AND PAVEMENTS ARE TO BE REMOVED FROM SITE.
8. SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 500 YR FLOODPLAIN ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS. THE MAP IS IDENTIFIED AS MAP NO. 080807019 (DATE FEB. 4, 2010)
9. ALL UTILITIES WILL BE INSTALLED UNDERGROUND.
10. SIGNAGE APPROVAL TO BE A SEPARATE PROCESS.
11. ALL SIDEWALKS TO BE CONSTRUCTED TO ADA STANDARDS AS REQUIRED BY SAINT LOUIS COUNTY AND CITY OF CHESTERFIELD.
12. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO SAINT LOUIS COUNTY, CITY OF CHESTERFIELD AND MISSOURI DEPARTMENT OF TRANSPORTATION STANDARDS.
13. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH SAINT LOUIS COUNTY, MSD AND CITY OF CHESTERFIELD STANDARDS.
14. NO SLOPES WITHIN SAINT LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
15. STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
16. 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 IMPROVEMENTS.
17. RETAINING WALLS REQUIRE SEPARATE APPROVAL/PERMITS FROM THE CITY OF CHESTERFIELD AND ST. LOUIS COUNTY.

ST. LOUIS COUNTY NOTES

- 1) ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
- 2) NO SLOPES WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY SHALL EXCEED 3 (HORIZONTAL) TO 1 (VERTICAL).
- 3) STORM WATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- 4) ALL PROPOSED ACCESS TO ST. LOUIS COUNTY ROADS SHALL MEET MINIMUM ST. LOUIS COUNTY SIGHT DISTANCE REQUIREMENTS.
- 5) ALL SIDEWALKS AND ASSOCIATED ACCESSIBILITY IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY ADA STANDARDS.
- 6) A SIGNED/SEALED NOTE SHALL BE ADDED TO THE CONSTRUCTION PLANS INDICATING THAT THE UNIMPROVED EXISTING SIDEWALK ALONG THE PROJECT FRONTAGE MEETS CURRENT ST. LOUIS COUNTY ADA STANDARDS.
- 7) ALL GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY AND MSD STANDARDS.
- 8) ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION.
- 9) 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.
- 10) PRIOR TO SPECIAL USE PERMIT ISSUANCE BY THE ST. 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 ST. LOUIS COUNTY DEPARTMENT OF TRANSPORTATION TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.

SITE COVERAGE

Total Site Area	= 1,384,569 s.f.
Total Site Coverage	= 131,004 s.f. (9.5%)
Prop. Bldg.	= 315,069 s.f. (22.7%)
Total Coverage	= 446,073 s.f. (32.2%)
Open Space Area	= 938,496 s.f. (67.8%)
F.A.R. =	231,361 s.f. = 0.21
	1,384,569 s.f.

UTILITY NOTE:
 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 FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.



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RNA DEVELOPMENT LABORATORY EXPANSION
 875 West Chesterfield Parkway
 Chesterfield, MO 63017
 Schematic Design

DRAWING ISSUE

DESCRIPTION	DATE
ADSCP & ASDSP	09/23/2021
CITY COMMENTS	10/15/2021

DRAWING TITLE

SITE DEVELOPMENT SECTION PLAN

DRAWING NO.

C2.0

Job # LJCX 093815 Consult # 216-980311

