VII. C.

690 Chesterfield Pkwy W ● Chesterfield MO 63017-0760
Phone: 636-537-4000 ● Fax 636-537-4798 ● www.chesterfield.mo.us

Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: August 23, 2021

From: Mike Knight, Assistant City Planner JMK

Location: A 4.9 acre tract of land located southeast of the intersection of Wild Horse Creek Road and Old Chesterfield Road.

Description: **Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village) SDSP:** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 4.9 acre tract of land located southeast of the intersection of Wild Horse Creek Road and Old Chesterfield Road.

PROPOSAL SUMMARY

This request is to allow for a 266 unit multi-family building. This is the third Site Development Section Plan submitted to the City for the 18 lot development known as Wildhorse Village. The building is 4 stories tall, roughly 48' in height, and contains a 405 space parking garage internal to the building hidden from the public eye. The primary building materials consist of brick (white and grey), grey metal shingles, and brushed masonry veneer.

On July 8, 2021 the project was reviewed by the Architectural Review Board. At that time, the Board made a motion to forward the Site Development Section Plan to Planning Commission with a recommendation to approve with conditions. The applicant has since fulfilled those conditions, staff has no remaining comments, and the project is being forwarded to Planning Commission for review.

Figure 1: Rendered Image of the Entrance

HISTORY OF SUBJECT SITE

On March 19th, 2008, the City of Chesterfield City Council approved Ordinance 2449. This ordinance amended the previous governing zoning ordinance of the City of Chesterfield by changing the boundaries of the following: an "R-8" Residence District with a Planned Environmental Unit Procedure, "R-5" Residence District, "FPR-5" Residence District, "R-6A" PEU Residence District with a Planned Environmental Unit Procedure, "C-8" Planned Commercial District, "NU" Non-Urban District and "M-3" Planned Industrial District to **one "PC & R" Planned Commercial & Residence District.**

City of Chesterfield Ordinance 2449 governed the entire PC&R district but defined specific development criteria for 3 specific "Categories". Ordinance 2449 also defined 3 specific areas within the PC&R district known as Area 1, Area 2, and Area 3.

In February of 2018, the City of Chesterfield approved Ordinance 2990. This ordinance solely amended the legal description of the entire PC&R district. This legal description removed approximately 2.9 acres in the northwestern section of the district just north of Wild Horse Creek Road and added approximately 3.4 acres in the northwestern section of the district just south of Wild Horse Creek Road.

In November of 2018, the City of Chesterfield approved Ordinance 3023. This zoning request had two main objectives: (1) to amend the legal description and incorporate a .438 acre parcel zoned "NU" Non-Urban; and (2) to amend the development criteria for the zoning district. The ordinance amendment essentially allowed a development team the ability to provide a separate Landscape Plan, Lighting Plan, and sign requirements for the areas of the PC&R district located both north and south of Wild Horse Creek Road individually instead of one Concept Plan for all 99 acres.

In June of 2020, Stock & Associates Consulting Engineers Inc. on behalf of Wildhorse Village, LP made a request to amend the legal description and development criteria for an existing "PC&R" Planned Commercial and Residence District. The zoning petition had two main objectives. The first was to incorporate and re-zone a 0.6 acre "C-8" Planned Commercial District parcel to the Planned Commercial and Residence District "PC&R" known as "Downtown Chesterfield". The second was to amend the development criteria of the governing ordinance. City Council approved this request creating Ordinance 3114. Since the approval of this ordinance, there has been an abundance of plan submission and a number of approvals specifically for Categories A and B of the ordinance. **Categories A and B are now commonly known as Wildhorse Village.**

On the following page (Figure 2) is a table that provides a high level historical summary of significant events for the PC&R district including the aforementioned plans that were submitted and approved.

Year	Month	Approval	Description	Action
2008	March	ORD 2449	Consolidation of six zoning districts into one PC&R district creating Downtown Chesterfield	Subsequent site plans were never submitted under zoning regulations of Ordinance 2449
2018	Feb	ORD 2990	Text amendment removing 2.9 acres and adding 3.4 acres	Provided necessary legal description change to facilitate the development for the Aventura development to the north
	Nov	ORD 3023	Incorporated (0.4) acres into PC&R district and amended development criteria	Allowed for separate concept plans north of Wild Horse Creek Road (Category C) and south of Wild Horse Creek Road (Categories A&B).
2019	Feb	SDCP	Concept Plan for Category C	A Site Development Concept Plan, Landscape Concept Plan, Signage Concept Plan, and Lighting Fixture Concept Plan for the 22 acre phased development north of WHCR in which future individual lots may now seek approval to develop
		SDSP	Lot A of Category C	Allowed for development of a mixed-use building containing residential units, retail, and restaurant on Lot A.
2020	Feb	SDSP	Lot B of Category C	Allowed for development of a hotel and conference center on Lot B
	Aug	ORD 3114	Incorporated (0.6) acres into PC&R district and amended development criteria	Ordinance to facilitate the development known as Wildhorse Village
	October	SDCP	Concept Plan for Infrastructure only of Categories A & B	Allowed for grading to be reviewed and approved to facilitate roadways, storm sewers, and sanitary sewers
2021	Feb	ASDCP	Amended Concept Plan for Categories A&B	Allowed for a phased mixed use development of 17 lots known as Wildhorse Village
	May	SDSP	Site Development Section Plan for Lot 6	Approval for a 35 single family home development
			Site Development Section Plan for Lot 1	Approval for a 72 attached single family home development

Figure 2: Historical Summary

STAFF ANALYSIS

The subject site is located south of Wild Horse Creek Road (WHCR), east of its intersection with Old Chesterfield Road (OCR). The subject site is located directly south of WHCR. This roadway is classified as a major arterial in accordance to the City's functional classification system and all facades will be highly visible to a large number of users. The area is designated City Center (Urban Transition) within the City of Chesterfield Comprehensive Land Use Plan and this development would be 4.9 acres of the 77 acre development known as Wildhorse Village.

Zoning District:

A PC&R District development is intended to create a diverse residential and commercial mixed-use environment in which residential and commercial uses can be integrated pursuant to a downtown concept that encourages creative and coordinated design and architectural styles, efficient and effective pedestrian circulation, conservation of land resources, efficient and effective vehicular circulation, and where people can choose to live, work, eat, shop, enjoy cultural amenities and recreate.

Comprehensive Plan:

The subject site is located within Ward 2 of the City of Chesterfield. The City of Chesterfield Comprehensive Land Use Plan indicates this parcel is within the City Center (Urban Transition) land use designation. The Comprehensive Plan provides a character description of the Urban Transition area. The description states;

"Land developed to offer residents the opportunity to live, work, shop and play within the larger City Center area. This includes a mixture of housing types and residential densities, integrated with a number of goods and services, especially in the downtown core. Buildings typically stand multiple stories often with residential units above storefronts or other pedestrian activity. Parking is satisfied using on-street parking, structured parking, or shared rear-lot parking strategies. An interconnected network of walkable streets connects the neighborhood to the downtown core."

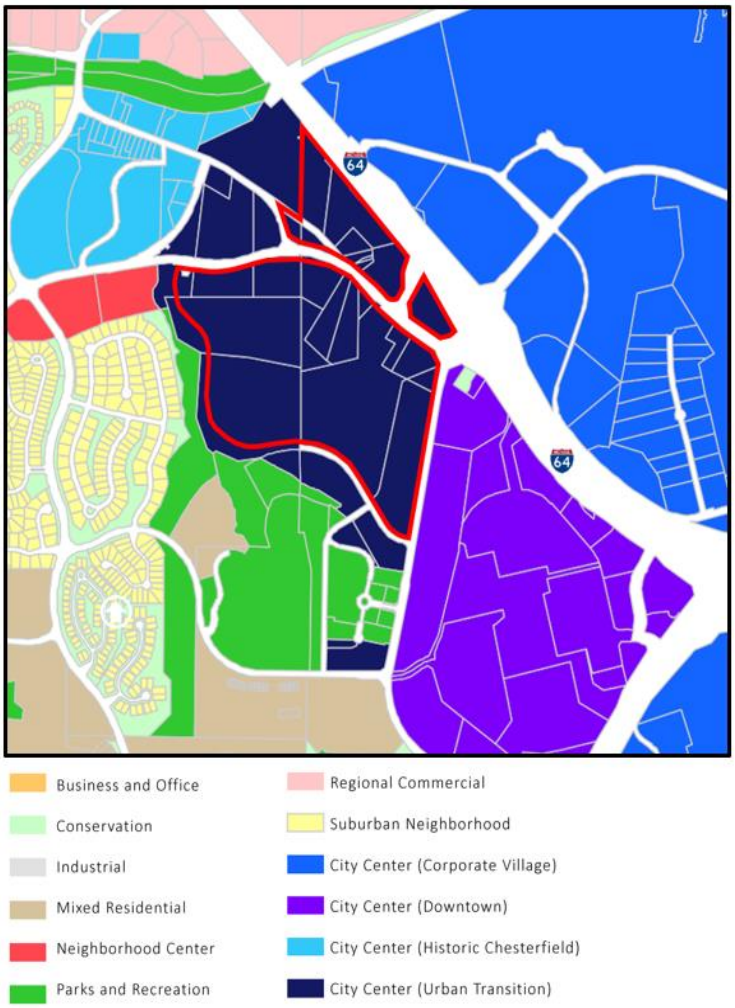


Figure 3: Comprehensive Plan- Land Use Designation

The City Center (Urban Transition) land use designation also states a series of development policies within the Comprehensive Plan. Below are specific development policies (**blue**) followed by how the governing ordinance and the Site Development Section Plan relate to those policies.

City Center should serve as the physical and visual focus for the City and include both residential and commercial developments with parks, municipal services, and preservation of historic structures and areas, with cultural, entertainment and pedestrian amenities for its residents.

This is a multi-family development that is east of an approved attached single family development and west of a programmed mixture of residential, office, and commercial activity centered by a lake and amenity areas.

The thoroughfare character should be urban and very walkable.

The project is very walkable with a 10' wide sidewalk along both the main street to the south, and Parkview terrace to the west with a 12' wide mixed use trail along Wild Horse Creek Road.

Buildings to be constructed closer to the roadways to promote the pedestrian experience.

The building is located along the main street (Wildhorse Lake Blvd.) and the plan references the required build-to line vs a set-back line to promote the pedestrian experience.

Incorporate a comprehensive network of open space throughout to accommodate small parks, gathering places and community gardens; preserve tree stands; and help reduce stormwater runoff.

This project has an extended (60') landscape buffer along most of the frontage adjacent to Wild Horse Creek Road with an internal courtyard for the residents.

Public art should be incorporated into new construction and re-development projects throughout the City Center.

The applicant provided the location of public art to be next to the entrance of the building, visible to the public realm.

General Requirements for Site Design:
This request is for one 266 unit multi-family building containing both an internal parking structure and an internal courtyard on a 4.9 acre tract of land. The site has one access point off the internal main street to the south, known Wildhorse Lake Blvd, with on-street parking in front of the building. The site has pedestrian accommodations circumnavigating the building with a 12' mixed use trail adjacent to Wild Horse Creek Road.

A. Site Relationships

This is a multi-family development that is east of an approved attached single family development, north of a programmed condo building and west of programmed mixture of residential, office, and commercial activity all within the larger Wildhorse Village development. The project is bordered to the north by two multi-family buildings (Aventura at Wild Horse Creek and Wildhorse Apartments).

B. Circulation System and Access

The site is accessed by the one aforementioned curb cut off Wildhorse Lake Blvd. All vehicular access will utilize this drive for tenant parking, loading and trash. Internal pedestrian paths connect to the large pedestrian paths of the overall Wildhorse Village development. A color Site Development Section Plan (Figure 4) was provided in this packet depicting the access and circulation locations.

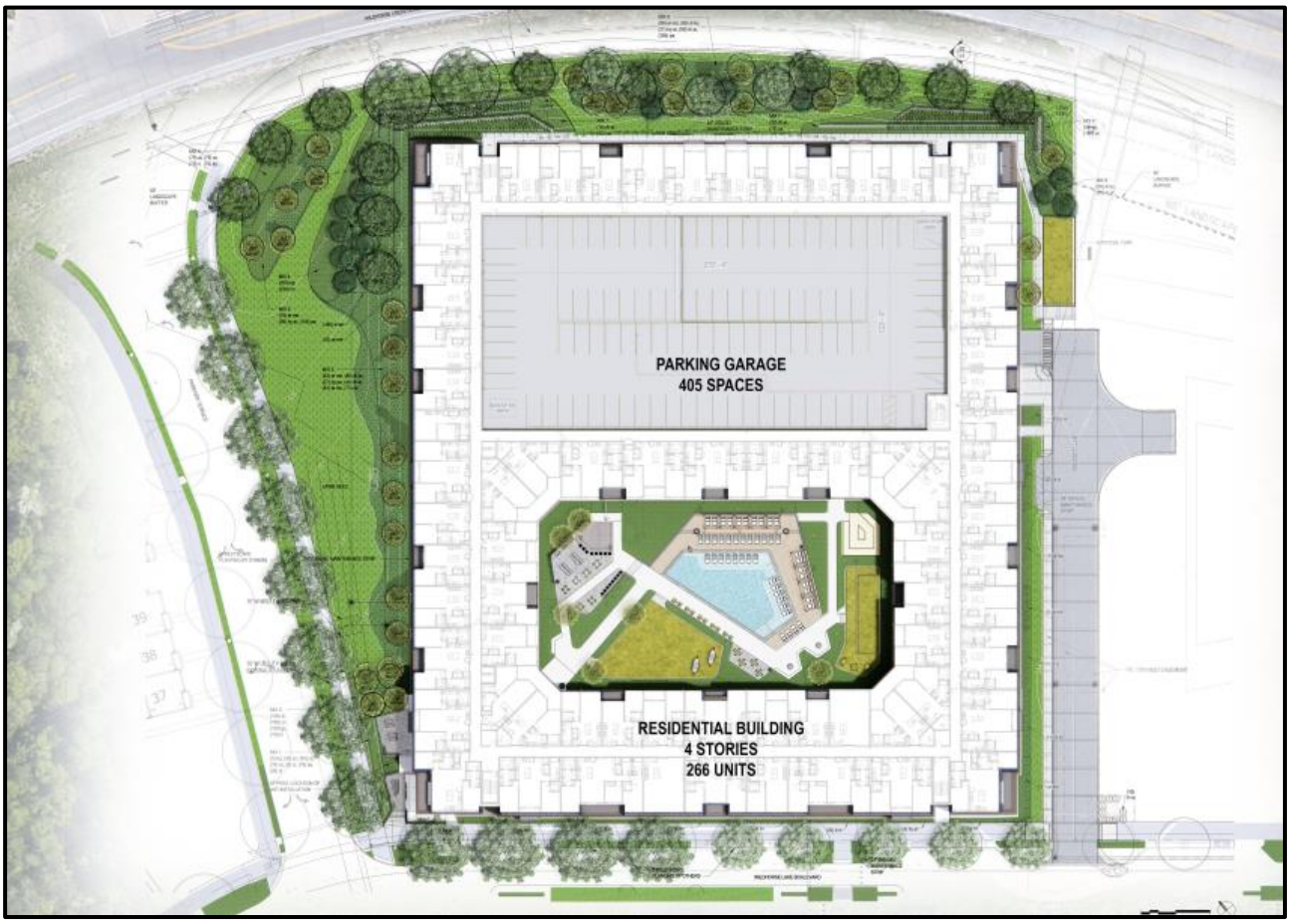


Figure 4: Color Site Plan

C. Topography and Retaining Walls

The site slopes from a high point at the southwest corner property line towards the northeast, falling approximately 10'. There are four retaining walls located on the site, two proposed on the northwest and two proposed on the northeast portion of the site. All of the walls are at or under 5' in height. The retaining walls will be constructed of modular masonry. Landscaping has been incorporated into the retaining walls to minimize visibility.

General Requirements for Building Design:
The building is 4 stories tall, roughly 48' in height, and contains a 405 space parking garage internal to the building hidden from the public eye. The building is pushed up close to the internal roadway (Wildhorse Lake Blvd.) as required by the site specific governing ordinance. The building will be highly visible from all four facades.

D. Scale, Design, Materials, and Color
In recent history, three developments in close proximity have been approved and are either under construction or have received full occupancy. The first is a four story multi-family residential building, constructed primarily with stone and fiber cement siding known as Aventura at Wildhorse Creek. The other two are a 3-4 story mixed use building, and 5 story hotel consisting largely of the same materials (brick, EIFS, ribbed black metal panel) known as Wildhorse and AC Hotel. The applicant has provided images of all three buildings within the attached packet.

The site specific governing ordinance (Ordinance 3114) has specific language in regards to the building placement, overall height, first floor height, and function. There is also a streetscape exhibit for Wildhorse Lake Blvd. The placement, overall height, and function all comply with the site specific ordinance. The site does have a requirement in which the applicant is seeking a modification. The ordinance requires the first floor of buildings to be a minimum of 12' in height. The applicant is requesting an 11' 7 7/8" first floor height.

The building is primarily brick (white and grey) for the first three stories and charcoal gray metal shingle for the fourth floor. A masonry veneer is contained around the base of the building with various recessed and protruding balconies throughout all four facades. All the balconies have a metal railing with horizontal cables. Below is an image of the building with the manufacturer, style, and color of the building materials.

Figure 5: Building Materials

E. Landscape Design

The site contains 19 deciduous canopy trees (29%), 13 evergreen trees (20%), and 28 deciduous understory trees (51%). The site also contains 73 deciduous shrubs and 76 evergreen shrubs. The growth rates for the trees are 23% slow, 49% moderate, and 28% fast. The most common tree on the site is the American Arborvitae and the most common shrub is the Arrowwood Viburnum. The site's heaviest landscaping is along Wild Horse Creek Road along the north façade.

F. Screening

The residential units will be screened by the parapet walls. The applicant has provided a roof-top screening exhibit which is included in the packet. The units will be located above the residential units as depicted in the image below (Figure 6.)

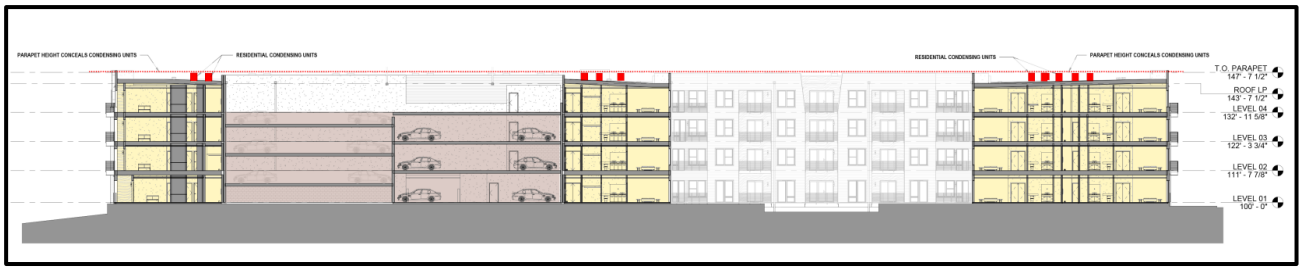


Figure 6:Roof Top Units

A dog run consisting of an artificial turf is located at the northeast corner of the property. The dog run will be enclosed by a decorative black metal fencing. An image of the fencing is included in the packet.

G. Lighting

All exterior lighting will adhere to all UDC lighting code requirements. All exterior lighting will be white in color, and all the cut sheets have been included within the submittal. The site does have two bollards that are illuminated located in the southeast corner of the site near the entrance.

MODIFICATION

The applicant is seeking two modifications from the governing ordinance. One is the previously mentioned first floor height requirement. The site specific governing ordinance requires the first floor of this building to be 12' in height. The applicant is proposing an 11' 7-7/8" first floor height. As designed, the first floor height uses precut dimensional lumber. In order to achieve the height requirement, there would be additional construction waste, time, and finances required to cut down the studs according to the applicant. The full narrative of the modification request is included in this packet.

The second is in regards to the rooftop mechanical screening requirement. Ordinance 3114 states, "rooftop mechanical equipment shall be permitted on roof within architecturally designed, fully enclosed penthouses that complement the building design". The applicant is proposing to screen the rooftop equipment on all visible sides with materials that are an integral part of the architecture.

This is the same language that exists for every development in the City's Unified Development Code. Again the full narrative of the modification request is included in this packet.

The requested modifications were provided to the Architectural Review Board for review. The Board was supportive of both modification requests. The Board felt that visually the first floor would appear as 12' in height and the additional waste would be unwarranted. In regards to the rooftop mechanical unit screening, the Board felt that the parapet screening was appropriate provided the location within the Wildhorse Village and the specific mechanical units required for a multi-family residential building.

ARCHITECTURAL REVIEW BOARD

The project was reviewed by the Architectural Review Board on July 08, 2021. At that time, the Board made a motion to forward the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wildhorse Village Lot 2A-1 to the Planning Commission with a recommendation to approve with the following conditions:

- Provide a color for the rooftop units that is color compatible with the surrounding materials
- Additional handrailings added to address building code compliance should be consistent with the existing railings depicted for the project.
- Provide the decibel levels within the parking garage.
- Evaluate the base of the building and incorporate additional material and/or color to soften the large monochromatic spance of the white brick building

The applicant has since resubmitted and fulfilled all four conditions. All of the updates have been included within the Planning Commission packets.

RENDERING

Below in (Figure 7) and on the following page (Figure 8) are renderings of two prominent viewpoints that can be seen when traveling east and west on Wild Horse Creek Road.

Figure 7: Rendering (Traveling West on WHCR)

Figure 8: Rendering (Traveling East on WHCR)

DEPARTMENT INPUT

Staff has reviewed the submittal and has found the application to be in conformance with the site specific ordinance, Comprehensive Plan, and Unified Development Code. As previously stated, the applicant is requesting two modifications to the site's performance standards, which is a process specifically described within the site specific governing ordinance. Staff recommends approval of the Site Development Section Plan on this submittal for Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village).

MOTION

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

1) "I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for the Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village)."

2) "I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Wildhorse Village, Lot 2A-1 (The Flats at Wildhorse Village) with the following conditions…" (Conditions may be added, eliminated, altered, or modified)

Attachments

1. Site Development Section Plan
2. Landscape Plan
3. Lighting Plan
4. Architectural Elevations
5. Architects Statement of Design
6. Modification Request

STOCK & ASSOCIATES
Consulting Engineers, Inc.

June 16, 2021

Via E-Mail (jknight@chesterfield.mo.us)

City of Chesterfield
690 Chesterfield Pkwy W.
Chesterfield MO 63017-0760

Attention: Mr. Mike Knight – Assistant City Planner

Re: Wildhorse Village Lot 2A-1 (SDSP letter dated 06/04/2021)
(Stock Project No. 220-6873)

Dear Mike,

Pursuant to your City letter dated 06/04/21, we are respectfully request the following modification to City of Chesterfield Ordinance No. 3114

Modification Request to City of Chesterfield Ordinance No. 3114
Attachment A -Section IB.1-Building Floor Height

Specifically, our request is as follows:

We request a modification to Section IB.1-Building Floor Height of Ordinance No. 3114, which states: "first story heights shall be 12-30 feet with the exception that the residential buildings in the geographic areas of Lots 1 and 6 on the Preliminary Development Plan shall be 9-30 feet." We are proposing an 11'-7 7/8" first floor height in lieu of 12'-0". As designed, the first floor height uses precut dimensional lumber. In order to achieve 12'-0" as required by the ordinance, a significant amount of construction waste, time and money would be required to cut the studs down to size.

Sincerely,

George M. Stock, P.E.
President

257 Chesterfield Business Parkway, St. Louis, MO 63005
636.530.9100 – Main | 636.530.9130 – Fax
www.stockassoc.com | general@stockassoc.com

STOCK & ASSOCIATES
Consulting Engineers, Inc.

June 16, 2021

Via E-Mail (jknight@chesterfield.mo.us)

City of Chesterfield
690 Chesterfield Pkwy W.
Chesterfield MO 63017-0760

Attention: Mr. Mike Knight – Assistant City Planner

Re: Wildhorse Village Lot 2A-1 (SDSP letter dated 06/04/2021)
(Stock Project No. 220-6873)

Dear Mike,

Pursuant to your City letter dated 06/04/21, we are respectfully request the following modification to City of Chesterfield Ordinance No. 3114

Modification Request to City of Chesterfield Ordinance No. 3114
Attachment A -Section IG.5

Specifically, our request is as follows:

We request a modification to Section IG.5 of Ordinance No. 3114, which states: "rooftop mechanical equipment shall be permitted on roofs within architecturally designed, fully enclosed penthouses that complement the building design." We are proposing to screen rooftop equipment on all visible sides with materials that are an integral part of the architecture. Parapet walls or screen walls will be treated as an integral part of the architecture and will not visually weaken the design of the structure, per UDC Section 405.04.010.

Sincerely,

George M. Stock, P.E.
President

257 Chesterfield Business Parkway, St. Louis, MO 63005
636.530.9100 – Main | 636.530.9130 – Fax
www.stockassoc.com | general@stockassoc.com

WILDHORSE VILLAGE LOT 2A-1

SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOCATED IN U.S. SURVEYS 123, 415 AND 2031
IN TOWNSHIP 45 NORTH RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

CATEGORY A - ORDINANCE 3114

ABBREVIATIONS

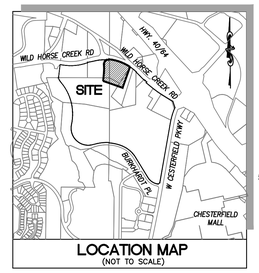
ATG	–	ADJUST TO GRADE
B.C.	–	BACK OF CURB
B.O.	–	BY OTHERS
C.O.	–	CLEANOUT
DB.	–	DEED BOOK
E	–	ELECTRIC
ELEV.	–	ELEVATION
EX.	–	EXISTING
F.C.	–	FACE OF CURB
FF	–	FINISHED FLOOR
FL	–	FLOWLINE
FM	–	FORCE MAIN
FND.	–	FOUND
FT.	–	FEET
G	–	GAS
H.W.	–	HIGH WATER
LFB	–	LOW FLOW BLOCKED
M.H.	–	MANHOLE
N/F	–	NOW OR FORMERLY
NWL	–	NORMAL WATER LEVEL
PB.	–	PLAT BOOK
PG.	–	PAGE
PR.	–	PROPOSED
PVC	–	POLYVINYL CHLORIDE PIPE
RCP	–	REINFORCED CONCRETE PIPE
R/W	–	RIGHT-OF-WAY
SLC.	–	ST. LOUIS COUNTY
SQ.	–	SQUARE
T	–	TELEPHONE CABLE
TBA	–	TO BE ABANDONED
TBR	–	TO BE REMOVED
TBR&R	–	TO BE REMOVED AND REPLACED
TBR&REL	–	TO BE REMOVED AND RELOCATED
TYP	–	TYPICAL
UIP	–	USE IN PLACE
UON	–	UNLESS OTHERWISE NOTED
VCP	–	VITRIFIED CLAY PIPE
W	–	WATER
(66'W)	–	RIGHT-OF-WAY WIDTH

EXISTING LEGEND

- BENCH MARK
- FOUND IRON ROD
- FOUND IRON PIPE
- RIGHT OF WAY MARKER
- UTILITY POLE
- SUPPORT POLE
- UTILITY POLE WITH LIGHT
- LIGHT STANDARD
- ELECTRIC METER
- ELECTRIC MANHOLE
- ELECTRIC PEDESTAL
- ELECTRIC SPLICE BOX
- GAS DRIP
- GAS METER
- GAS VALVE
- TELEPHONE MANHOLE
- TELEPHONE PEDESTAL
- TELEPHONE SPLICE BOX
- CABLE TV PEDESTAL
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- WATER MANHOLE
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- CLEAN OUT
- STORM MANHOLE
- GRATED MANHOLE
- STORMWATER INLET
- GRATED STORMWATER INLET
- SANITARY MANHOLE
- TREE
- BUSH
- TRAFFIC SIGNAL
- PARKING METER
- STREET SIGN
- SPRINKLER
- MAIL BOX

PROPOSED LEGEND

- PROPOSED CONTOUR — 442
- PROPOSED SPOT — 442.25
- PROPOSED STORM — ST
- PROPOSED SANITARY — SS
- PROPOSED UTILITIES — E–G–T–W
- LOT ADDRESS — ###



LOCATION MAP
(NOT TO SCALE)

SHEET INDEX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

PERTINENT DATA

OWNER:	WILDHORSE VILLAGE, LP A MISSOURI LIMITED PARTNERSHIP BOOK: 23906 – PAGE: 2981
OVERALL AREA:	4.91 Acres ±
EXISTING ZONING:	PC & R PER ORDINANCE #3114
LOCATOR NO:	18T640260
WUNNERBERG'S:	PG. 21, GRID 18EE
FIRE DISTRICT:	MONARCH FIRE PROTECTION DISTRICT
SCHOOL DISTRICT:	PARKWAY
SEWER DISTRICT:	METROPOLITAN ST. LOUIS SEWER DIST.
WATER SHED:	MISSOURI RIVER
FEMA MAP:	29189C0164K, FEB 4, 2015
ELECTRIC COMPANY:	AMEREN UE – RIC BEHNEN & LES NOLAN (314) 713-4904 / RBEHNEN@AMEREN.COM (314) 992-8903 / LNOLAN@AMEREN.COM
GAS COMPANY:	SPIRE INC – RAMONA STEVENS & BRIAN LANGENBACHER (314) 575-4843 / RAMONA.STEVENS@SPIREENERGY.COM (314) 713-6572 / BRIAN.LANGENBACHER@SPIREENERGY.COM
TELECOM COMPANY:	AT&T – DANNY GRAY (636) 949-1320 / DG7548@ATT.COM
TELECOM COMPANY:	CHARTER – DARYL STEFFEN (314) 713-6378 / DARYL.STEFFEN@CHARTER.COM
TELECOM COMPANY:	VERIZON – ANDY GOTTO (808) 348-1503 / ANDREW.GOTTO@VERIZON.COM
TELECOM COMPANY:	EXTENET – KOJI BJERKE (636) 577-7429 / BBJERKE@EXTENETSYSTEMS.COM
WATER COMPANY:	MISSOURI AMERICAN WATER COMPANY – MATT JASPERING (314) 606-2615 / MATT.JASPERING@AMWATER.COM
USACE PERMIT:	MVS-2020-554

SITE DEVELOPMENT CONCEPT PLAN RECORDED ON 10/16/2020, P.B. 368 PGS. 450-462.
AMENDED SITE DEVELOPMENT CONCEPT PLAN RECORDED ON 3/1/2021, P.B. 369 PGS. 61-73

PREPARED FOR:
THE FLATS AT WILDHORSE VILLAGE, LLC
1034 S. BRENTWOOD BLVD
SUITE 2300 PH-1D
ST. LOUIS, MO 63117
ATTN: MICHAEL HAMBURG – 314.363.7447
MICHAEL@PIERPROPERTYGROUP.COM

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4/23/2021 12:42:19 PM

GEORGE MICHAEL STOCK — NUMBER PE-25116 — STATE OF MISSOURI — PROFESSIONAL ENGINEER
06/16/2021
GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

ARCHITECT OF RECORD
Lamar Johnson Collaborative
DESIGN ARCHITECT
ARCTURIS

Civil Engineer
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005
PH. (636) 530-9100
FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

WILDHORSE VILLAGE LOT 2A-1
THE FLATS AT WILDHORSE VILLAGE LLC
350 WILDHORSE LAKE BLVD CHESTERFIELD, MO

DRAWING ISSUE

DESCRIPTION	DATE
SDSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16

STOCK #	220-6873
ORD. #	3114
BASE MAP	18T
MSD P#	21MSD-00286
USACE	MVS-2020-554
MDNR	MORA16776
SLC	-

DRAWING TITLE
SITE DEVELOPMENT SECTION PLAN

DRAWING NO.
SDSP-1.0

Job # 20.0243

WILDHORSE LOT 2A-1

SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND BEING LOCATED IN U.S. SURVEYS 123, 415 AND 2031
IN TOWNSHIP 45 NORTH RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

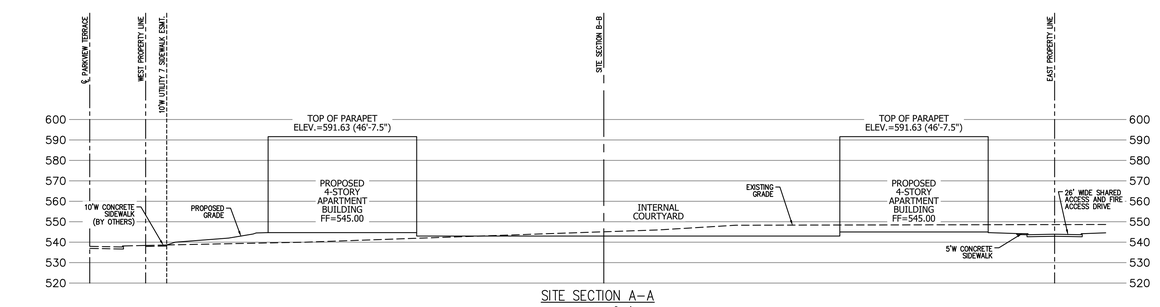
CATEGORY A - ORDINANCE 3114

GENERAL NOTES

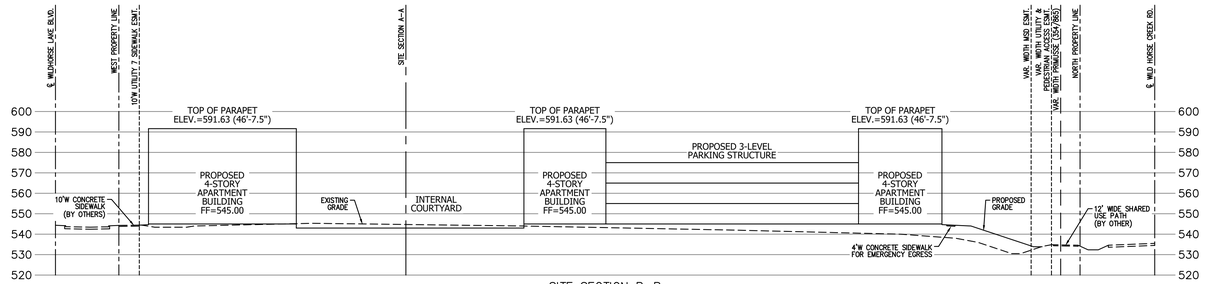
1. BOUNDARY AND TOPOGRAPHICAL SURVEY BY STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC.
2. ALL GRADING AND DRAINAGE TO BE IN CONFORMANCE WITH THE ST. LOUIS COUNTY, MSD AND CITY OF CHESTERFIELD STANDARDS.
3. ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED. SHOULD ANY CONFLICTS BE EVIDENT, THE CONTRACTOR SHALL NOTIFY THE OFFICE OF THE ENGINEER IMMEDIATELY.
4. ON-SITE STORM WATER DRAINAGE REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SECTION 405.04.120, STORMWATER STANDARDS, IN THE UNIFIED DEVELOPMENT CODE.
5. OFF-SITE GRADING EASEMENTS, IF REQUIRED, SHALL BE EXECUTED AND RECORDED PRIOR TO THE COMMENCEMENT OF ANY OFF-SITE GRADING.
6. CROSS-ACCESS EASEMENTS WHERE REQUIRED, SHALL BE EXECUTED AND RECORDED AS INDIVIDUAL LOTS ARE DEVELOPED.
7. ALL PROPOSED IMPROVEMENTS WITHIN THE ST. LOUIS COUNTY RIGHT-OF-WAY SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY STANDARDS.
8. TREE PRESERVATION AND LANDSCAPING SHALL BE IN ACCORDANCE WITH SECTION 405.04.020, TREE PRESERVATION AND LANDSCAPE REQUIREMENTS, IN THE UNIFIED DEVELOPMENT CODE.
9. ALL PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO ST. LOUIS COUNTY AND THE CITY OF CHESTERFIELD STANDARDS.
10. SIGN APPROVAL IS A SEPARATE PROCESS.
11. NO GRADE SHALL EXCEED 3 TO 1.
12. STORM WATER SHALL BE DISCHARGED AS DIRECTED BY THE CITY OF CHESTERFIELD. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
13. INSTALLATION OF LANDSCAPING AND ORNAMENTAL ENTRANCE MONUMENT OR IDENTIFICATION SIGNAGE CONSTRUCTION SHALL BE REVIEWED BY THE CITY OF CHESTERFIELD AND ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC FOR SIGHT DISTANCE CONSIDERATION AND APPROVED PRIOR TO INSTALLATION OR CONSTRUCTION.
14. THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR FACILITIES WITHIN PUBLIC RIGHT-OF-WAY. UTILITY RELOCATION COST SHALL NOT BE CONSIDERED AS AN ALLOWABLE CREDIT AGAINST THE PETITIONER'S TRAFFIC GENERATION ASSESSMENT CONTRIBUTIONS. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS. SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO ALLOW OCCUPANCY PRIOR TO COMPLETION OF ROAD IMPROVEMENTS.
15. ALL UTILITIES SHALL BE INSTALLED UNDERGROUND.
16. SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE "REVISED PRELIMINARY GEOTECHNICAL EXPLORATION" PREPARED BY MIDWEST TESTING (MT JOB NO. 14938), DATED APRIL 7, 2020.
17. ALL ABOVE GROUND UTILITY FACILITIES TALLER THAN TWO (2) FEET IN HEIGHT OR COVERING IN EXCESS OF FOUR (4) SQUARE FEET IN SIZE SHALL BE SCREENED FROM PUBLIC VIEW. IF SCREENING IS COMPLETED BY LANDSCAPE MATERIAL, A LANDSCAPE PLAN IDENTIFYING THE SIZE, LOCATION AND SPECIES SHALL BE SUBMITTED AND APPROVED BY THE CITY PRIOR TO INSTALLATION OF ANY FACILITY.

ST. LOUIS COUNTY STANDARD 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 GRADING AND DRAINAGE SHALL BE IN CONFORMANCE WITH ST. LOUIS COUNTY STANDARDS.
6. ALL HYDRANTS, POWER POLES OR OTHER POTENTIAL OBSTRUCTIONS WITHIN THE ST. LOUIS COUNTY ROAD RIGHT-OF-WAY SHALL HAVE A MINIMUM TWO (2) FOOT SETBACK FROM FACE OF CURB OR EDGE OF PAVEMENT, AS DIRECTED BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC.
7. UTILITY WORK WITHIN COUNTY RIGHT-OF-WAY OR EASEMENT REQUIRES A SEPARATE SPECIAL USE PERMIT.
8. 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.
9. PRIOR TO SPECIAL USE PERMIT ISSUANCE BY THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC, A SPECIAL CASH ESCROW OR A SPECIAL ESCROW SUPPORTED BY AN IRREVOCABLE LETTER OF CREDIT, MAY BE REQUIRED TO BE ESTABLISHED WITH THE ST. LOUIS COUNTY DEPARTMENT OF HIGHWAYS AND TRAFFIC TO GUARANTEE COMPLETION OF THE REQUIRED ROADWAY IMPROVEMENTS.
10. COORDINATE WITH COUNTY AR-1817 PRIOR TO THE START OF ANY WORK ON WILD HORSE CREEK ROAD.
11. THIS PROJECT DOES NOT INCLUDE WORK WITHIN ST. LOUIS COUNTY RIGHT-OF-WAY OR EASEMENT
12. THE PROJECT'S REQUIRED TRAFFIC GENERATION ASSESSMENT SHALL BE DEPOSITED WITH ST. LOUIS COUNTY PRIOR TO ISSUANCE OF ANY BUILDING PERMITS FOR THIS PROJECT.



SITE SECTION A-A
HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=30'



SITE SECTION B-B
HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=30'

PROPERTY DESCRIPTION

PROPOSED LOT 2A-1

A TRACT OF LAND BEING LOCATED IN U.S. SURVEYS 123, 415, AND 2031 IN TOWNSHIP 45 NORTH, RANGE 4 EAST, OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE INTERSECTION OF EAST LINE OF ADJUSTED LOT A AS RECORDED IN PLAT BOOK 260 PAGE 3 AND THE SOUTH RIGHT OF WAY LINE OF WILD HORSE CREEK ROAD AS DEDICATED BY PLAT BOOK 354 PAGE 865, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 919.00 FEET; THENCE ALONG SAID RIGHT OF WAY LINE, WITH SAID CURVE AN ARC DISTANCE OF 308.26 FEET, AND A CHORD WHICH BEARS SOUTH 66 DEGREES 47 MINUTES 08 SECONDS EAST, 306.81 FEET, TO A CURVE TO THE RIGHT HAVING A RADIUS OF 1098.00 FEET; THENCE LEAVING SAID RIGHT OF WAY LINE THE FOLLOWING COURSES AND DISTANCE: ALONG SAID CURVE AN ARC DISTANCE OF 1.35 FEET AND A CHORD WHICH BEARS SOUTH 55 DEGREES 46 MINUTES 10 SECONDS EAST, 1.35 FEET; SOUTH 18 DEGREES 45 MINUTES 05 SECONDS WEST, 442.20 FEET; NORTH 71 DEGREES 14 MINUTES 55 SECONDS WEST, 365.64 FEET TO A CURVE TO THE LEFT HAVING A RADIUS OF 281.00 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 42.88 FEET AND A CHORD WHICH BEARS NORTH 75 DEGREES 37 MINUTES 14 SECONDS WEST, 42.84 FEET; NORTH 04 DEGREES 35 MINUTES 47 SECONDS EAST, 177.33 FEET TO A CURVE TO THE LEFT HAVING A RADIUS OF 526.50 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 67.96 FEET AND A CHORD WHICH BEARS NORTH 00 DEGREES 53 MINUTES 55 SECONDS EAST, 67.91 FEET; NORTH 02 DEGREES 47 MINUTES 57 SECONDS WEST, 81.33 FEET; NORTH 87 DEGREES 12 MINUTES 03 SECONDS EAST, 0.50 FEET; NORTH 02 DEGREES 47 MINUTES 57 SECONDS WEST, 2.81 FEET TO A CURVE TO THE RIGHT HAVING A RADIUS OF 108.00 FEET; ALONG SAID CURVE AN ARC DISTANCE OF 52.39 FEET AND A CHORD WHICH BEARS NORTH 11 DEGREES 05 MINUTES 56 SECONDS EAST, 51.88 FEET TO A COMPOUND CURVE TO THE RIGHT HAVING A RADIUS OF 95.00 FEET; AND ALONG SAID CURVE AN LENGTH OF 65.64 FEET AND A CHORD WHICH BEARS NORTH 44 DEGREES 47 MINUTES 24 SECONDS EAST, 64.34 FEET, TO THE ABOVE SAID SOUTH RIGHT OF WAY LINE, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 907.00 FEET; THENCE ALONG SAID RIGHT OF WAY LINE, WITH SAID CURVE AN ARC DISTANCE OF 35.61 FEET AND A CHORD WHICH BEARS SOUTH 86 DEGREES 34 MINUTES 40 SECONDS EAST, 35.61 FEET; AND NORTH 04 DEGREES 32 MINUTES 49 SECONDS EAST, 11.26 FEET TO A CURVE TO THE RIGHT HAVING A RADIUS OF 95.00 FEET; THENCE LEAVING SAID RIGHT OF WAY LINE, ALONG SAID CURVE AN ARC DISTANCE OF 9.03 FEET AND A CHORD WHICH BEARS SOUTH 89 DEGREES 53 MINUTES 38 SECONDS EAST, 9.03 FEET, TO SAID RIGHT OF WAY LINE, BEING ON A CURVE TO THE RIGHT HAVING A RADIUS OF 919.00 FEET; THENCE ALONG SAID CURVE AN ARC DISTANCE OF 136.29 FEET, AND A CHORD WHICH BEARS SOUTH 80 DEGREES 38 MINUTES 36 SECONDS EAST, 136.16 FEET TO THE POINT OF BEGINNING.

CONTAINING 213,884 SQUARE FEET OR 4.910 ACRES, MORE OR LESS

GEOTECHNICAL ENGINEER'S STATEMENT

Midwest Testing, at the request of Wildhorse Village LP, has provided geotechnical services for the project proposed hereon. Geotechnical explorations were conducted for the grading, infrastructure, and slopes of the development. Our findings indicate that the earth-related aspects are suitable for the grading and infrastructure construction proposed hereon pursuant to the recommendations set forth in our April 7, 2020 report titled "Revised Preliminary Geotechnical Exploration (MT Job No. 14938) – Pearl/RGA – Downtown Chesterfield – Chesterfield, Missouri." A cursory assessment of the existing dam followed, as set forth in our December 31, 2020 report titled "Assessment of Dam Conditions (MT Job No. 14938) – Wildhorse Village – Chesterfield, Missouri."

Richard D. Laughlin, P.E.
PE-20132

April 25, 2021
Date

STATE OF MISSOURI — RICHARD DAVID LAUGHLIN — NUMBER E-20132 — REGISTERED PROFESSIONAL ENGINEER

Wildhorse Village, LP, a Missouri Limited Partnership, the owner of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter.

"PC&R" – Planned Commercial & Residence (present zoning) of the City of Chesterfield (applicable subsection):

Ordinance No. 3114, do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

Wildhorse Village, LP

by: _____

STATE OF MISSOURI)
) SS.
COUNTY OF ST. LOUIS)

On this ____ day of _____, 2021, before me personally appeared _____, who being by me duly sworn, did say he is the _____ of _____, and that said instrument was signed on behalf of said limited liability company, and that said _____ acknowledged said instrument to be the free act and deed of said limited liability company.

IN WITNESS WHEREOF, I have signed and sealed the foregoing the day and year first above written.

_____
Notary Public

_____
Print Name

My commission expires: _____

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the _____ day of _____ 2021, by the Chairperson of said Commission, authorizing the recording of this Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as attested to by the Director of Planning and Development Services and the City Clerk.

By: _____
Justin Wyse, AICP
Director of Planning
City of Chesterfield, Missouri

By: _____
Vickie McGownd, City Clerk
City of Chesterfield, Missouri

SURVEYOR'S CERTIFICATION

This is to certify that Stock and Associates Consulting Engineers, Inc. has prepared this Site Development Section Plan from a field survey and does not represent a property boundary survey. The information shown is a correct representation of all existing and proposed land divisions.

STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.
L.S. No. 222-D

Walter J Pfleger, Missouri L.S. No. 2008000728

WILDHORSE VILLAGE CATEGORY A STANDARDS

BUILDING PLACEMENT

PER STREETSCAPE EXHIBIT 1 OF ORD. 3114
NORTH (WILD HORSE CREEK RD.): 15' LANDSCAPE BUFFER*, THEN 0'-30' BUILD TO LINE
EAST (ADJOINING LOT 2A-2): 0'**
SOUTH (WILDHORSE LAKE BLVD.): 10' SIDEWALK & UTILITY ESMT., THEN 0'-15' BUILD TO LINE
WEST (PARKVIEW TERRACE): 10' SIDEWALK & UTILITY ESMT., THEN 0'-200' BUILD TO LINE

SPACE BETWEEN BUILDINGS: ATTACHED OR 6'-125' IF DETACHED

NOTES:

* THE GEOGRAPHIC AREA SHOWN AS LOT 2A (LOTS 2A-1 & 2A-2) ON THE PRELIMINARY DEVELOPMENT PLAN SHALL HAVE A VARIABLE WIDTH LANDSCAPE BUFFER THAT IS A MINIMUM OF 60' IN WIDTH FOR AT LEAST 60% OF THE FRONTAGE ALONG WILD HORSE CREEK ROAD, BUT AT NO POINT GOES BELOW THE REQUIRED 15' IN WIDTH

** STRUCTURES MAY BE CONSTRUCTED UP TO LOT LINES

BUILDING VOLUME

PER ORD. 3114
MAXIMUM HEIGHT: 4 STORIES

OPENSPACE CALCULATIONS

LOT 2A-1:
PROVIDED OPENSPACE: 34.3% (73,313 SF/213,884 SF)

PARKING:

PER CITY OF CHESTERFIELD UDC SEC.405.04.040(D)(1) RESIDENTIAL USES – DWELLING, MULTIPLE FAMILY

MINIMUM REQUIRED: 1.75 SPACES FOR EVERY LIVING UNIT – (266 UNITS)x(1.75 SPACES/UNIT) = 466 SPACES

MAXIMUM REQUIRED: NONE

PROVIDED: 410 SPACES (88% OF REQUIRED*)

*PER ORD 3114 (PARKING AND LOADING REQUIREMENTS)
PORTION OF DISTRICT SOUTH OF RELOCATED WILD HORSE CREEK ROAD AND NORTH OF BURKHARDT PLACE: REQUIRED PARKING SHALL BE CALCULATED BASED UPON THE SUM OF THE SQUARE FOOTAGE OF INDIVIDUAL LAND USES AT THE RATE REQUIRED BY THE CITY OF CHESTERFIELD CODE, EXCEPT THAT THE REQUIRED PARKING SHALL BE PROVIDED AT NOT LESS THAN 70% OF THE AFORE-DESCRIBED CALCULATION.

Residential Sanitary Flow Estimate - Lot 2A-1
Wildhorse PPG @ Lot 2A-1 (Stock JN 221-6873)

Sanitary Flow Rates (Average Daily Flow - ADF)

Use	Flow Rate
Residential	370 GPD (100 GPD/Person x 3.7 Persons/Residence)

Sanitary Flows - MSD Standard

Lot 2A-1 (Apartments)	266 Units	x	370 GPD/Unit	=	98,420 GPD
Average Daily Flow (ADF)				**TOTAL =**	**98,420 GPD**
					0.15 CFS
Peak Daily Flow = 4.0 x ADF				**PDF =**	**393,680 GPD**
					0.61 CFS

DISCLAIMER:

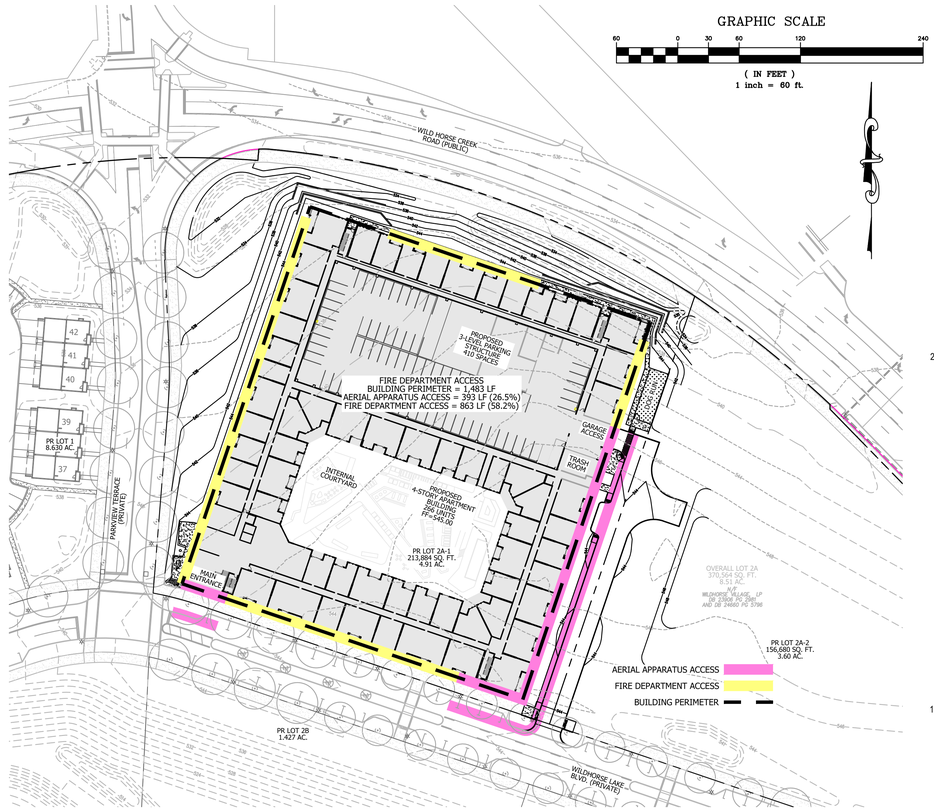
STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. AND THE UNDERSIGNED ENGINEER HAVE NO RESPONSIBILITY FOR SERVICES PROVIDED BY OTHERS TO IMPLEMENT THE IMPROVEMENTS SHOWN ON THIS PLAN AND ALL OTHER DRAWINGS WHERE THE UNDERSIGNED ENGINEER'S SEAL APPEARS. THE CONSTRUCTION MEANS AND METHODS ARE THE SOLE RESPONSIBILITY OF THE OWNER AND CONTRACTOR. STOCK AND ASSOCIATES CONSULTING ENGINEERS, INC. HAS NO RESPONSIBILITY TO VERIFY FINAL IMPROVEMENTS AS SHOWN ON THIS PLAN UNLESS SPECIFICALLY ENGAGED AND AUTHORIZED TO DO SO BY THE OWNER OR CONTRACTOR.

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.

ST. LOUIS COUNTY BENCHMARK

BENCHMARK # 12048
NGVD29 Elev = 557.81
"Sq" on top of curb at end of rounding along the north curb line of the easterly extension of Burkhardt Place on the east side of Chesterfield Village Parkway. 0.2 mile north of Lydia Hills Drive.



FIRE ACCESS PLAN

STATE OF MISSOURI — GEORGE MICHAEL STOCK — NUMBER PE-25116 — PROFESSIONAL ENGINEER
06/16/2021
GEORGE M. STOCK E-25116
CIVIL ENGINEER
CERTIFICATE OF AUTHORITY NUMBER: 000996

ARCHITECT OF RECORD
Lamar Johnson Collaborative
DESIGN ARCHITECT
ARCTURIS

Civil Engineer
STOCK & ASSOCIATES
Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005
PH. (636) 530-9100
FAX (636) 530-9130
e-mail: general@stockassoc.com
Web: www.stockassoc.com

WILDHORSE VILLAGE

THE FLATS AT WILDHORSE VILLAGE LLC
350 WILDHORSE LAKE BLVD CHESTERFIELD, MO

DRAWING ISSUE	
DESCRIPTION	DATE
SDSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16

STOCK #	220-6873
ORD. #	3114
BASE MAP	18T
MSD P#	21MSD-00286
USACE	MVS-2020-554
MDNR	MORA16776
SLC	-

DRAWING TITLE
SITE DEVELOPMENT SECTION PLAN

DRAWING NO.
SDSP-2.0

Job # 20.0243

4/23/2021 12:42:19 PM

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1 A3.2 NORTH ELEVATION
1/16" = 1'-0"

2 A3.2 EAST ELEVATION
1/16" = 1'-0"

3 A3.2 SOUTH ELEVATION
1/16" = 1'-0"

4 A3.2 WEST ELEVATION
1/16" = 1'-0"

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ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

WILDHORSE VILLAGE

THE FLATS AT WILDHORSE VILLAGE LLC
350 WILDHORSE LAKE BLVD CHESTERFIELD, MO

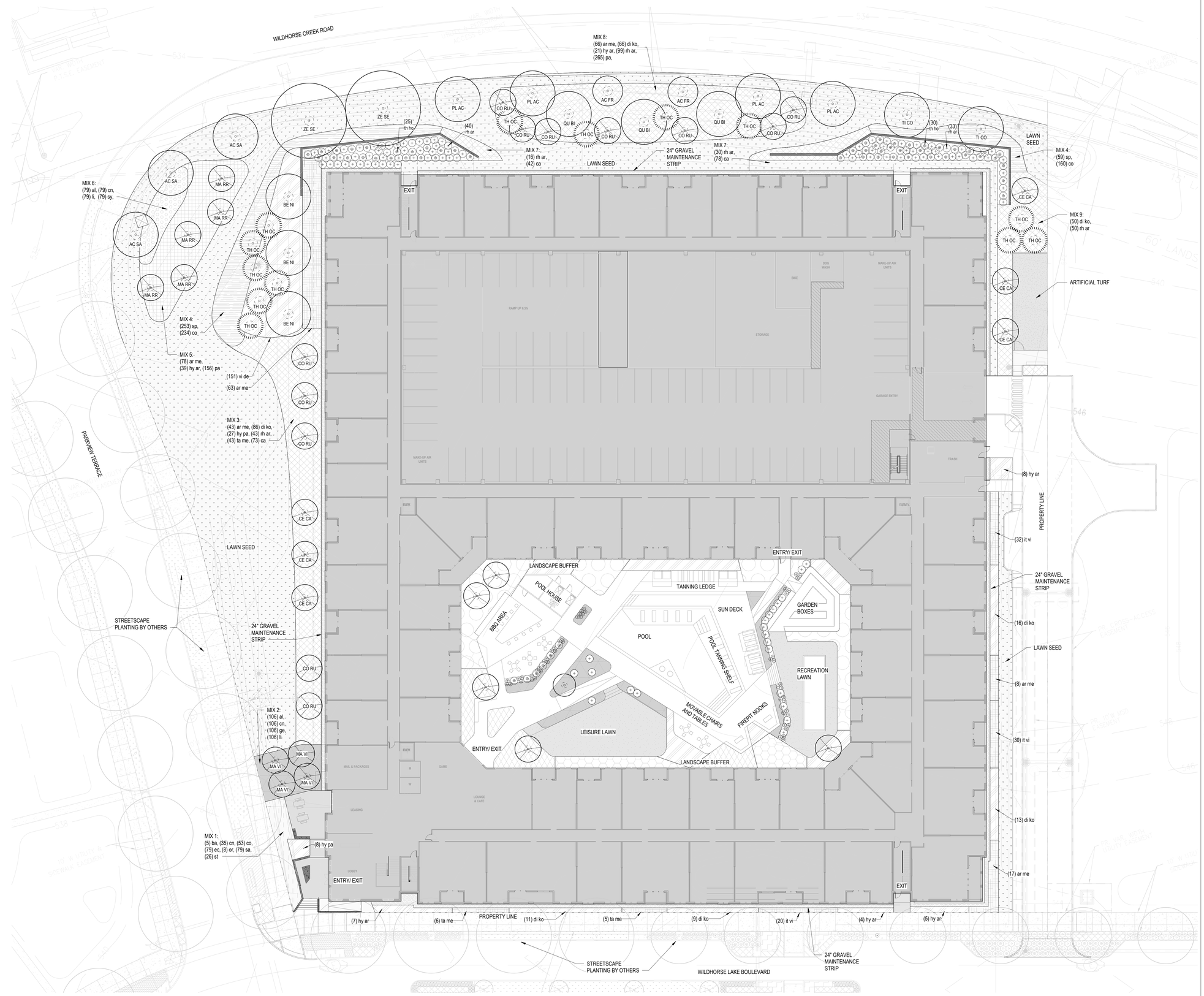
DRAWING ISSUE

DESCRIPTION	DATE

DRAWING TITLE
BUILDING ELEVATIONS

DRAWING NO.
A3.1

Job # 20.0243



A1 / L1.1 PLANTING PLAN
1" = 20'-0"

0' 10' 20' 40'

PLANTING NOTES

1. PLANT NAMES MAY BE ABBREVIATED ON DRAWINGS. REFER TO PLANTING SCHEDULE AND LEGENDS FOR SYMBOLS, ABBREVIATIONS, BOTANICAL AND COMMON NAMES, SIZES, ESTIMATED QUANTITIES AND OTHER REMARKS.
2. VERIFY ALL DIMENSIONS AND SITE CONDITIONS PRIOR TO STARTING CONSTRUCTION AND IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
3. VERIFY THE LOCATION OF ALL UTILITIES INCLUDING SANITARY AND STORM SEWER + ROOF DRAINS PRIOR TO BEGINNING CONSTRUCTION.
4. ALL WORK PERFORMED SHALL BE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WITH ALL APPLICABLE CODES, STANDARDS AND ORDINANCES.
5. ALL PLANTS SHALL BE GUARANTEED FOR ONE FULL YEAR FROM THE SUBSTANTIAL COMPLETION OF THE LANDSCAPE CONTRACT AT FULL REPLACEMENT VALUE INCLUDING LABOR TO REPLACE PLANT MATERIALS.
6. ALL PLANT MATERIAL SHALL BE OF SPECIMEN QUALITY AND OF THE SIZE AND TYPE SPECIFIED IN THE PLANT SCHEDULE.
7. THE SITE SHALL BE FINISH GRADED BY THE LANDSCAPE CONTRACTOR. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN FINISHED GRADES AND RE-GRADE ANY AREAS DISTURBED BY LANDSCAPE OPERATIONS.
8. ANY CLEAN, EXCESS SOIL FROM LANDSCAPE OPERATIONS SHALL BE WASTED ON SITE AT THE DISCRETION OF THE CONTRACTOR OR DISPOSED OF OFF SITE. ALL CONSTRUCTION DEBRIS FROM LANDSCAPE OPERATIONS SHALL BE DISPOSED OF OFF SITE.
9. REFER TO SPECIFICATION FOR SOD TYPE. ALL AREAS INDICATED IN THE PLANS TO BE SODDED SHALL BE MOWED JUST PRIOR TO INSTALLATION AND SHALL BE GUARANTEED FOR A PERIOD OF ONE MONTH. ALL SOD AREAS ARE TO BE WATERED DAILY FOR ONE WEEK AND EVERY OTHER DAY FOR THE NEXT TWO WEEKS.
10. ALL PLANTING AREAS MUST BE FREE OF ALL WEEDS AND DEBRIS BEFORE PLANTING, SODDING, AND/OR SEEDING.
11. REF. SPECIFICATIONS AND DETAILS FOR PLANTING METHODS, REQUIREMENTS, SOIL TESTING, MATERIALS, EXECUTIONS AND PLAN PROTECTIONS.
12. PROVIDE AND INSTALL LOCALLY AVAILABLE SHREDDED HARDWOOD MULCH AROUND THE BASE OF ALL TREES AND SHRUBS IN SHRUB BEDS ONLY. IF TREES AND SHRUBS ARE PART OF A PERENNIAL / ORNAMENTAL GRASS / GROUNDCOVER BED, THEN APPLY LOCAL **LEAF MULCH** TO ALL.
13. WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN PLANTING SCHEDULE ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKE-OFFS FOR ALL PLANT MATERIAL AND SIZES SHOWN ON THE DRAWINGS. IN CASE OF DISCREPANCIES, BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.
14. THE CONTRACTOR SHALL PROVIDE PLANT MATERIAL QUANTITIES TO MATCH THE DRAWINGS AND TO PROVIDE TOTAL COVERAGE AT THE SPECIFIED SPACING.
15. THERE SHALL BE NO SUBSTITUTIONS OF PLANT MATERIAL WITHOUT APPROVAL OF THE OWNER/ARCHITECT. THE OWNER/ARCHITECT ALONE SHALL DETERMINE EQUALITY BASED UPON COMPLETE INFORMATION SUBMITTED BY THE CONTRACTOR. SUBSTITUTIONS SHALL NOT BE MADE UNLESS DRAWINGS AND/OR WRITTEN REQUESTS ARE SUBMITTED TO THE OWNER/ARCHITECT FOR APPROVAL.
16. CONTRACTOR IS RESPONSIBLE TO RESTORE ALL AREAS OF THE SITE OR ADJACENT AREAS WHERE DISTURBED TO A CONDITION THAT MEETS OR EXCEEDS THE CONDITIONS PRIOR TO THE DISTURBANCE.
17. SEE SHEET L4.601 FOR PLANT SCHEDULE.

PLANTING KEY

SYM	BOTANICAL NAME	CULTIVAR
1. DECIDUOUS CANOPY TREES		
AC FR	Acer freemanii	'Armstrong'
AC SA	Acer saccharum	Green Mountain
BE NI	Betula nigra	
PL AC	Platanus x acerifolia	'Morton's Circle'
QU BI	Quercus bicolor	
TI CO	Tilia cordata	Greenspire
ZE SE	Zelkova serrata	Green Vase
2. EVERGREEN TREES		
TH OC	Thuja occidentalis	Smaragd
3. DECIDUOUS UNDERSTORY TREES		
CE CA	Cercis canadensis	Merlot
CO RU	Cornus 'Rutcan' CONSTELLATION	
HE MI	Heptacodium miconioides	Temple of Bloom
MA RR	Malus x ROYAL RAINDROPS	
MA VI	Magnolia virginiana	Jim Wilson
5. DECIDUOUS SHRUBS		
rh ar	Rhus aromatic	Gro-Low
EVERGREEB SHRUB		
th ho	Thuja occidentalis	Holmstrup
ORNAMENTAL GRASS		
ca	Calamagrostis x acutiflora	Karl Foerster
perennial		
am	Amsonia hubrichtii	

LEGEND

SYMBOL	DESCRIPTION	DETAIL
	CANOPY TREES	B4
	UNDERSTORY TREES	B4
	EVERGREEN TREES	C1
	SEEDED LAWN TURF	

WILDHORSE CREEK ROAD STREET
TREES QUANTITY AND PERCENTAGES

STREET TREES		
SYM	QTY	%
AC FR	2	15%
AC SA	3	25%
PL AC	4	30%
TI CO	2	15%
ZE SE	2	15%

NOTE: SEE SHEET L2.1 FOR FULL PLANTING SCHEDULE

ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

STATE OF MISSOURI
JAMES ANDREW KILMER
NUMBER LA-2009005036
LANDSCAPE ARCHITECT

WILDHORSE PPG @LOT 2A-1

PER PROPERTY GROUP
350 WILDHORSE LAKE BLVD

DRAWING ISSUE

DESCRIPTION	DATE
LAY-BY LOADING	21-06-16

BUILDING MAP

DRAWING TITLE
PLANTING PLAN

DRAWING NO.
L1.1

Job # 20.0243

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MIX 1

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
5	ba	Baptisia x	'Purple Smoke'	False Indigo	1 Gal.	36" O.C.	Container
35	cn	Calamintha nepeta		Calamint	1 Qt.	18" O.C.	Container
53	co	Coreopsis lanceolata		Tickseed	1 Qt.	12" O.C.	Container
79	ec	Echinacea purpurea	'Virgin'	Purple Coneflower	1 Qt.	12" O.C.	Container
8	or	Origanum x	'Drops of Jupiter'	Ornamental Onion	1 Qt.	36" O.C.	Container
79	sa	Salvia nemorosa	'Bumbleblue'	Meadow Sage	1 Qt.	12" O.C.	Container
26	st	Sporobolus heterolepis	'Tara'	Dropseed	1 Qt.	24" O.C.	Container

MIX 2

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
106	al	Allium	'Millenium	Ornamental Onion	1 Qt.	18" O.C.	Container
106	cn	Calamintha nepeta		Calamint	1 Qt.	18" O.C.	Container
106	ge	Geranium macrorrhizum	'Bevans Variety'	Cranesbill	1 Qt.	18" O.C.	Container
106	li	Liriope muscari	'Big Blue'	Lilyturf	1 Qt.	18" O.C.	Container

MIX 3

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
43	ar me	Aronia melanocarpa	'Iroquois Beauty'	Chokeberry	5 Gal.	48" O.C.	Container
86	di ko	Dierilla x	'Kodiak Orange'	Diervilla	5 Gal.	36" O.C.	Container
27	hy pa	Hydrangea paniculata	'Limelight'	Panicle Hydrangea	5 Gal.	60" O.C.	Container
43	rh ar	Rhus aromatica	'Gro-low'	Aromatic Sumac	5 Gal.	48" O.C.	Container
43	ta me	Taxus x media	'Everlow'	Yew	5 Gal.	48" O.C.	Container
79	ca	Calamagrostis x acutiflora	'Karl Foerster'	Feather Reed Grass	1 Gal.	30" O.C.	Container

MIX 4

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
306	sp	Sporobolus heterolepis		Dropseed	1 Qt.	30" O.C.	Container
382	co	Coreopsis lanceolata		Tickseed	1 Qt.	12" O.C.	Container

MIX 5

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
78	ar me	Aronia melanocarpa	'Iroquois Beauty'	Chokeberry	5 Gal.	48" O.C.	Container
156	hy ar	Hydrangea arborescens	'Annabelle'	Smooth Hydrangea	5 Gal.	60" O.C.	Container
156	pa	Panicum virgatum	'Northwind'	Switchgrass	1 Gal.	24" O.C.	Container

MIX 6

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
79	al	Allium	'Millenium	Ornamental Onion	1 Qt.	18" O.C.	Container
79	cn	Calamintha nepeta		Calamint	1 Qt.	18" O.C.	Container
79	li	Liriope muscari	'Big Blue'	Lilyturf	1 Qt.	18" O.C.	Container
79	sy	Symphyotrichum novae-angliae	'Purple Dome'	Aster	1 Qt.	18" O.C.	Container

MIX 7

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
46	rh ar	Rhus aromatica	'Gro-low'	Aromatic Sumac	5 Gal.	48" O.C.	Container
120	ca	Calamagrostis x acutiflora	'Karl Foerster'	Feather Reed Grass	1 Gal.	30" O.C.	Container

MIX 8

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
66	ar me	Aronia melanocarpa	'Iroquois Beauty'	Chokeberry	5 Gal.	48" O.C.	Container
66	di ko	Dierilla x	'Kodiak Orange'	Diervilla	5 Gal.	36" O.C.	Container
21	hy ar	Hydrangea arborescens	'Annabelle'	Smooth Hydrangea	5 Gal.	60" O.C.	Container
99	rh ar	Rhus aromatica	'Gro-low'	Aromatic Sumac	5 Gal.	48" O.C.	Container
265	pa	Panicum virgatum	'Northwind'	Switchgrass	1 Gal.	24" O.C.	Container

MIX 9

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
50	di ko	Diervilla x	'Kodiak® Orange'	Kodiak Orange Diervilla	5 Gal.	48" O.C.	Container
50	rh ar	Rhus aromatica	'Gro- Low'	Grow Low Sumac	5Gal.	48" O.C.	Container

MIX 10

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
74	af	Athyrium filix	'Femina'	Lady Fern	1 Qt.	18"O.C.	Container
216	ap	Astilbe pumila		Chinese Astilbe	1 Qt.	12"O.C.	Container
21	ar	Aralia cordata	'Sun King'	Japanese Spikehead	1 Qt.	30"O.C.	Container
433	cx	Carex laxiculmis	'Hobb' Bunny Blue'	Creeping Sedge	1 Qt.	12" O.C.	Container
192	hm	Hakonechloa macra		Hakone Grass	1 Qt.	18" O.C.	Container

MIX 11

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
84	al	Allium	'Millenium	Ornamental Onion	1 Qt.	18" O.C.	Container
84	cn	Calamintha nepeta		Calamint	1 Qt.	18" O.C.	Container
149	co	Coreopsis lanceolata		Tickseed	1 Qt.	12" O.C.	Container
149	ec	Echinacea purpurea	'Virgin'	Purple Coneflower	1 Qt.	12" O.C.	Container
51	or	Origanum x	'Drops of Jupiter'	Ornamental Onion	1 Qt.	36" O.C.	Container
128	sa	Salvia nemorosa	'Bumbleblue'	Russian Sage	1 Qt.	12" O.C.	Container
93	st	Sporobolus heterolepis	'Tara'	Dropseed	1 Qt.	24" O.C.	Container

MIX 12

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
98	ar lo	Aronia melanocarpa	'Low Scape Mound'	Chokeberry	5 Gal.	24" O.C.	Container
42	ce oc	Cephalanthus occidentalis	'Sugar Shack'	Buttonbush	5 Gal.	36" O.C.	Container
53	cl al	Clethera alnifolia	'Hummingbird'	Sweet Pepperbush	5 Gal.	48" O.C.	Container
63	am	Amsonia hubrichtii		Bluestar	1 Gal.	30" O.C.	Container
83	ca	Calamagrostis x acutiflora	'Karl Foerster'	Feather Reed Grass	1 Gal.	30" O.C.	Container
116	pe	Pervoskia atriplicifolia	'Little Spire'	Russian Sage	1 Qt.	18" O.C.	Container

MIX 13

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	SPACING	METHOD
	fo ga	Fothergilla gardenii		Dwarf Fothergilla	5 Gal.	36" O.C.	Container
	it vi	Itea virginica	'Little Henry'	Sweetspire	5 Gal.	30" O.C.	Container
	cp	Carex pensylvanica		Pensylvania Sedge	1 Qt.	12" O.C.	Container
	hg	Hosta	'Golden Tiara'	Hosta	1 Qt.	30" O.C.	Container
	hh	Hosta	'Halcyon'	Hosta	1 Qt.	30" O.C.	Container

GROWTH RATES

SLOW	15/65 = 23%
MODERATE	32/65 = 49%
FAST	18/65 = 28%

DECIDUOUS CANOPY TREES (29%)

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	METHOD	MATURE HEIGHT	DETAIL	COMMENTS	GROWTH RATE
2	AC FR	Acer freemanii	'Armstrong'	Armstrong Maple	2.5" Cal.	B & B	50'-70'	B4		Moderate
3	AC SA	Acer saccharum	Green Mountain	Sugar Maple	2.5" Cal.	B & B	45' +	B4		Fast
3	BE NI	Betula nigra		River Birch	12'-14' Ht.	B & B	40'-60'	B4	Multi-stem	Fast
4	PL AC	Platanus x acerifolia	'Morton's Circle'	Exclamation! London Planetree	2.5" Cal.	B & B	45' +	B4		Fast
3	QU BI	Quercus bicolor		Swamp White Oak	2.5" Cal.	B & B	50'-60'	B4		Moderate
2	TI CO	Tilia cordata	Greenspire	Littleleaf Linden	2.5" Cal.	B & B	50'-70'	B4		Slow
2	ZE SE	Zelkova serrata	Green Vase	Zelkova	2.5" Cal.	B & B	45' +	B4		Fast

EVERGREEN TREES (20%)

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	METHOD	MATURE HEIGHT	DETAIL	COMMENTS	GROWTH RATE
13	TH OC	Thuja occidentalis	Smaragd	American arborvitae	12'-14' Ht.	B & B	50'+	C1		Slow

DECIDUOUS UNDERSTORY TREES (51%)

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	METHOD	MATURE HEIGHT	DETAIL	COMMENTS	GROWTH RATE
6	CE CA	Cercis canadensis	Merlot	Eastern Redbud 'Merlot'	8'-10' Ht.	B & B	10'-15'	B4	Single Stem	Fast
12	CO RU	Cornus 'Rutcan' CONSTELLATION		Dogwood	8'-10' Ht.	B & B	12'-18'	B4	Multi-stem	Moderate
1	AC PA	Heptacodium miconioides	Temple of Bloom	Seven-Son Flower	10'-12' Ht.	B & B	45' +	B4	Multi-stem	Moderate
9	MA VI	Magnolia virginiana	Jim Wilson	Sweetbay Magnolia	8'-10' Ht.	B & B	15'-25'	B4	Multi-stem	Moderate
5	MA RO	Malus x ROYAL RAINDROPS		flowering crabapple	2.5" Cal.	B & B	12'-16'	B4	Single Stem	Moderate

DECIDUOUS SHRUBS

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	METHOD	SPACING	DETAIL	COMMENTS
73	rh ar	Rhus aromatic	Gro-Low	Grow Low Sumac	5 GAL	Container	48" O.C.	B1	
DECIDIOUS SHRUB AREAS									
88	ar me	Aronia melanocarpa	'Morton'	Iroquois Beauty Black Chokeberry	5 Gallon	Container	48" O.C.	B1	
49	di ko	Diervilla x	'Kodiak Orange'	Kodiak Orange Diervilla	5 Gallon	Container	48" O.C.	B1	
55	hy ar	Hydrangea arborescens	'Annabelle'	Smooth Hydrangea	5 Gallon	Container	60" O.C.	B1	
82	it vi	Itea virginica	'Little Henry'	Sweetspire	5 Gallon	Container	30" O.C.	B1	
151	vi de	Viburnum dentatum CHRISTOM	'Blue Muffin'	Arrowwood Viburnum	5 Gallon	Container	48" O.C.	B1	

EVERGREEN SHRUBS

QTY	SYM	BOTANICAL NAME	CULTIVAR	COMMON NAME	SIZE	METHOD	SPACING	DETAIL	COMMENTS
76	th ho	Thuja occidentalis	Holmstrup	American arborvitae	5 GAL	Container	48" O.C.	B1	Needled Evergreen
EVERGREEN SHRUB AREAS									
11	ta me	Taxus x media	'Everlow'	Yew	5 Gallon	Container	48" O.C.	B1	

SEEDED LAWN TURF

MANUFACTURER	SEED MIX	SEEDING RATE	COMMENTS
Lebanon Turf	Winning Colors Tall Fescue Blend (or approved equal)	Per Manufacturer specification	INSTALL AT RATE PER MANUFACTURER'S RECOMMENDATIONS

NOTES:

1. WHERE PROVIDED, AREA TAKEOFFS AND PLANT QUANTITY ESTIMATES IN PLANTING SCHEDULE ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE TO DO THEIR OWN QUANTITY TAKEOFFS FOR ALL PLANT MATERIAL AND SIZES SHOWN ON THE DRAWINGS. IN CASE OF DISCREPANCIES, BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR CLARIFICATION.

2. ALL PLANTING MIX AREAS WITH MORE THAN ONE PLANT TYPE PER AREA TO BE INSTALLED IN RANDOM, NATURALISTIC, TRIANGULAR SPACING AT A MINIMUM OF 20 PER AREA (SEE PLAN FOR QUANTITIES).

3. FINAL SEED MIX SPECIES, PERCENTAGES TO BE COORDINATED WITH NATIVE SEEDING CONTRACTOR.

ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

JAMES ANDREW KILMER
NUMBER
S-LA-2000050036
LANDSCAPE ARCHITECT
STATE OF WISCONSIN

WILDHORSE PPG @LOT 2A-1

PER PROPERTY GROUP
350 WILDHORSE LAKE BLVD

DRAWING ISSUE

DESCRIPTION	DATE
LAY-BY LOADING	21-06-16

BUILDING MAP

DRAWING TITLE
PLANTING SCHEDULE

DRAWING NO.
L2.1

Job # 20.0243

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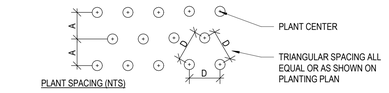
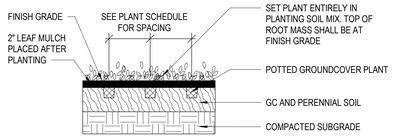


PLANT SPACING (NTS)

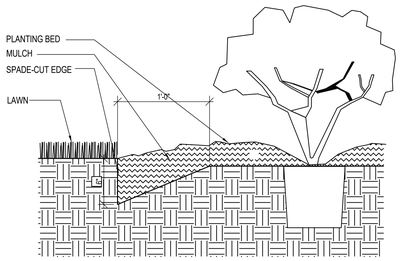
SPACING "D"	ROW "A"	PLANTS PER SQ. FT.
12" O.C.	10.4"	1.15
10" O.C.	8.7"	1.66
8" O.C.	6.9"	2.60
6" O.C.	5.2"	4.00

NOTES:
PLANT QUANTITIES WERE DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS PER SQ. FT. FOR REQUIRED SPACING

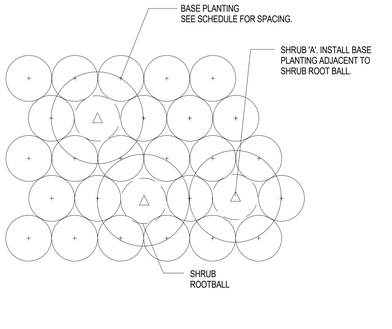
QUANTITY OF GROUNDCOVER AND SPACING AS NOTED IN PLANTING SCHEDULE



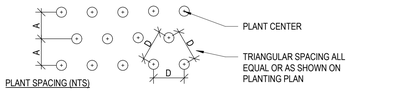
E4 / L2.2 GROUND COVER PLANTING
1/2" = 1'-0"



E3 / L2.2 SPADE CUT EDGE @ PLANTING BED
1 1/2" = 1'-0"



D2 / L2.2 INTERMINGLED SHRUB/PERENNIAL/GRASS PLANTING
1/2" = 1'-0"

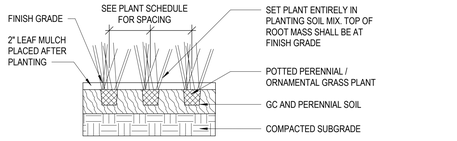


PLANT SPACING (NTS)

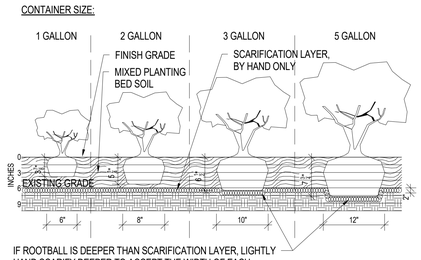
SPACING "D"	ROW "A"	PLANTS PER SQ. FT.
24" O.C.	20.8"	0.29
18" O.C.	15.6"	0.50
12" O.C.	10.4"	1.15
10" O.C.	8.7"	1.66
8" O.C.	6.9"	2.60
6" O.C.	5.2"	4.00

NOTES:
PLANT QUANTITIES WERE DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS PER SQ. FT. FOR REQUIRED SPACING

QUANTITY OF GROUNDCOVER AND SPACING AS NOTED IN PLANTING SCHEDULE



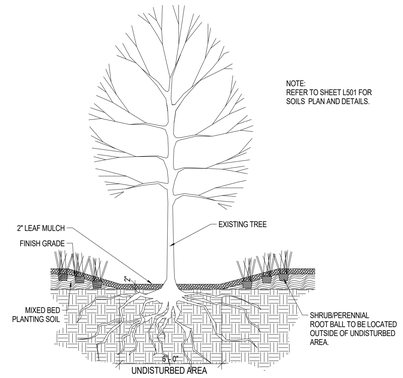
C4 / L2.2 PERENNIAL AND GRASS PLANTING
1/2" = 1'-0"



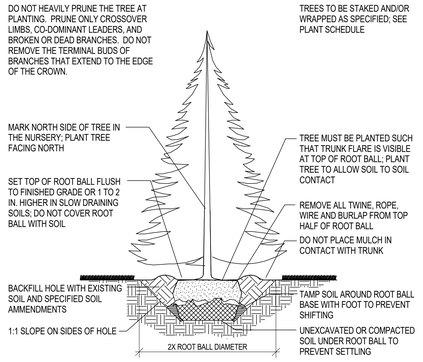
IF ROOTBALL IS DEEPER THAN SCARIFICATION LAYER, LIGHTLY HAND SCARIFY DEEPER TO ACCEPT THE WIDTH OF EACH INDIVIDUAL ROOTBALL. TAKE CARE NOT TO DAMAGE EXISTING TREE ROOTS. DO NOT SCARIFY THE ENTIRE PLANTING BED.

NOTES:
1. ROOT BALL SIZES SHOWN ARE A MINIMUM SPREAD AND DEPTH FOR 'TYPE 2' INTERMEDIATE DECIDUOUS SHRUBS, AS DEFINED BY AMERICAN STANDARD FOR NURSERY STOCK.
2. REFER TO SHRUB PLANTING DETAIL 5/L610 FOR FURTHER DETAIL.

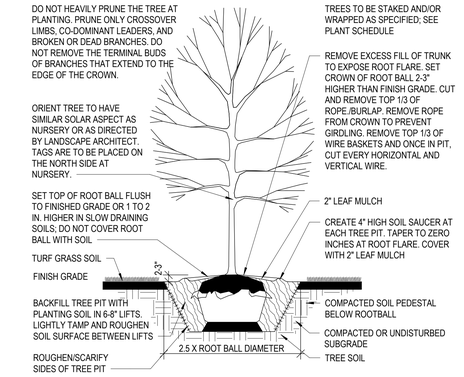
C3 / L2.2 SHRUB PLANTING DEPTH ADJACENT EXISTING TREES
1/2" = 1'-0"



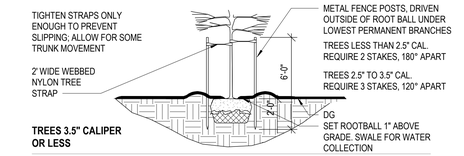
C2 / L2.2 MIXED PLANTING ADJACENT EXISTING TREE1
1/4" = 1'-0"



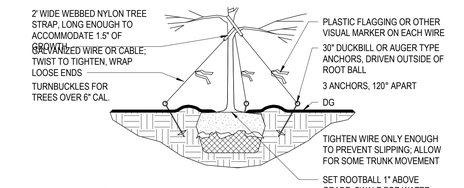
C1 / L2.2 EVERGREEN TREE PLANTING
1/4" = 1'-0"



B4 / L2.2 DECIDUOUS TREE PLANTING
1/4" = 1'-0"



TREES 3.5" CALIPER OR LESS



TREES GREATER THAN 3.5" CALIPER

GENERAL NOTES:
1. TREES TO BE STAKED ONLY AS SPECIFIED, SEE PLANT SCHEDULE.
2. STAKES SHALL BE REMOVED NO LATER THAN THE END OF FIRST GROWING SEASON AFTER PLANTING.

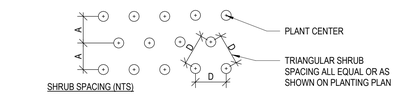
PLANTING NOTES:
1. SIDES OF PLANTING PITS ARE TO BE LOOSENED OR RAKED BEFORE SETTING TREE IN PIT.
2. EXCAVATE DEPTH OF PLANTING PIT TO THE SAME DEPTH AS THE ROOTBALL.
3. THE WIDTH OF THE PLANTING PIT SHALL BE 2X THE WIDTH OF THE ROOTBALL.
4. GENTLY LOOSEN ROOTS AROUND THE EXTERIOR OF ROOTBALL.
5. CENTER TREE IN PLANTING PIT.
6. INSPECT ROOT BALLS AT POINT OF PURCHASE TO AVOID PURCHASE OF ROOTBOUND MATERIALS
7. REMOVE ENTIRE CONTAINER FROM ALL PLANTS PRIOR TO PLANTING.
8. NEW TREES SHALL NOT BE PRUNED UNLESS DIRECTED BY OWNER.
9. FORM SWALE AROUND EACH TREE AS SHOWN FOR WATER COLLECTION
10. REMOVE ALL NURSERY STAKES.

BACKFILL NOTES:
1. PROVIDE MULCH AMENDMENT WITH BACKFILL FOR ALL NON-DESERT TREES.
2. BACKFILL MIX SHALL CONSIST OF 3 PARTS NATIVE SOIL TO 1 PART MULCH. PROVIDE 1 CUP GYPSUM IN BOTTOM OF PLANTING PIT.
3. INCLUDE 16:20:0 AMMONIUM PHOSPHATE FERTILIZER IN PLANTING PIT FOR NON-DESERT TREES. MIX INTO BACKFILL. DO NOT SPREAD ON TOP OF SOIL.

STAKING NOTES:
1. USE 2-2" DIA. LODGE POLE STAKES-DOUGLAS FIR OR APPROVED HARDWOOD.
2. DRIVE STAKE MIN. 12" INTO FIRM UNDISTURBED SOIL BELOW THE EXCAVATED DEPTH.
3. PLACE STAKES OUTSIDE THE ROOTBALL.
4. HEIGHT OF STAKE MAY VARY DEPENDING ON NEED FOR SUPPORT.
5. PLACE THE TOP TIE FOR MAXIMUM SUPPORT. THE BOTTOM TIE SHOULD BE APPROXIMATELY HALFWAY BETWEEN THE TOP TIE AND THE GROUND.
6. ALWAYS PLACE STAKE TO PREVENT DAMAGE TO TREE AND CAMBIUM.

MISC. NOTES:
1. REMOVE ALL PLASTIC TREE TIE TAPE, BAMBOO NURSERY STAKE, WIRE TIES, AND LABELS FROM TREES AFTER THEY HAVE BEEN APPROVED.
2. BACKFILL ANY HOLES LEFT IN ROOTBALL FROM NURSERY STAKES. BACKFILL SHALL BE CLEAN SOIL, NOT D.G.
3. SWALE SHALL BE A SMOOTH TRANSITION- NO ABRUPT GRADE CHANGES.
4. SWALE SHALL BE TESTED FOR WATER HOLDING CAPACITY PRIOR TO PLACING D.G.
5. PROVIDE ADDITIONAL WIRE HOSE TIE WHEN THE TREE IS NOT RIGIDLY SUPPORTED BY THE TWO REQUIRED SUPPORTS.
6. 2-3" MULCH TOP LAYER, NOT AROUND BASE, 1" D.G. TOP LAYER ALSO SUITABLE.

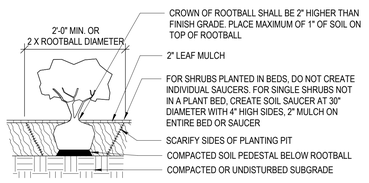
B2 / L2.2 TREE PLANTING AND STAKING - SINGLE TRUNK
1/4" = 1'-0"



SHRUB SPACING (NTS)

SPACING "D"	ROW "A"	PLANTS PER SQ. FT.
24"	20.8"	.290
30"	26"	.185
36"	30"	.120
4'	41.5"	.073
5'	52"	.046

QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE



B1 / L2.2 SHRUB PLANTING
1/4" = 1'-0"

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ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

STATE OF MISSOURI
JAMES ANDREW KILMER
NUMBER A-2006005036
LANDSCAPE ARCHITECT

WILDHORSE PPG @LOT 2A-1

PER PROPERTY GROUP
350 WILDHORSE LAKE BLVD

DRAWING ISSUE

DESCRIPTION	DATE
LAY-BY LOADING	21-06-16

BUILDING MAP

DRAWING TITLE
PLANTING DETAILS

DRAWING NO.
L2.2

Job # 20.0243

F E D C B A

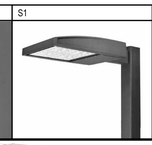
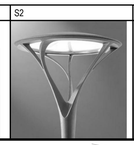
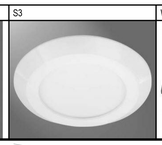
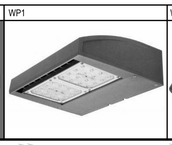
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ADA RAMP_Top	Illuminance	Fc	3.96	5.5	1.4	2.83	3.93
PARKING GARAGE TOP DECK	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PATIO AREA_Top	Illuminance	Fc	4.16	10.0	1.2	3.47	8.33
POOL SIDEWALK AREAS	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	0.65	9.1	0.0	N.A.	N.A.
ROADWAY	Illuminance	Fc	1.38	6.1	0.0	N.A.	N.A.

LIGHT LEVEL CALCULATED ON THE GROUND
MOUNTING HEIGHT NEXT TO FIXTURE LOCATION

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
▪	5	AM01	SINGLE	0.900	96	480	PRV-C25-D-UNV-T4-BZ
⊙	2	BL	SINGLE	0.900	23	46	ABB-B2-LED-42-D1-A
⊡	3	WP1	SINGLE	0.912	59	177	GWC-SA1C-740-U-SL2
▫	4	WP3	SINGLE	0.900	16.4	65.6	MERU-AC
▫	3	WP4	SINGLE	0.900	20.7	62.1	AXCS2A
▫	5	WS	Single	0.900	29.3	146.5	700OWCOS18WC830UNV

DESIGN IS BASED ON CURRENT INFORMATION PROVIDED AT THE TIME OF REQUEST. ANY CHANGES IN MOUNTING HEIGHT OR LOCATION, LAMP WATTAGE, LAMP TYPE, AND EXISTING FIELD CONDITIONS, THAT EFFECT ANY OF THE PREVIOUSLY MENTIONED, WILL VOID CURRENT LAYOUT AND REQUIRE A CLOANGE REQUEST AND RECALCULATION.

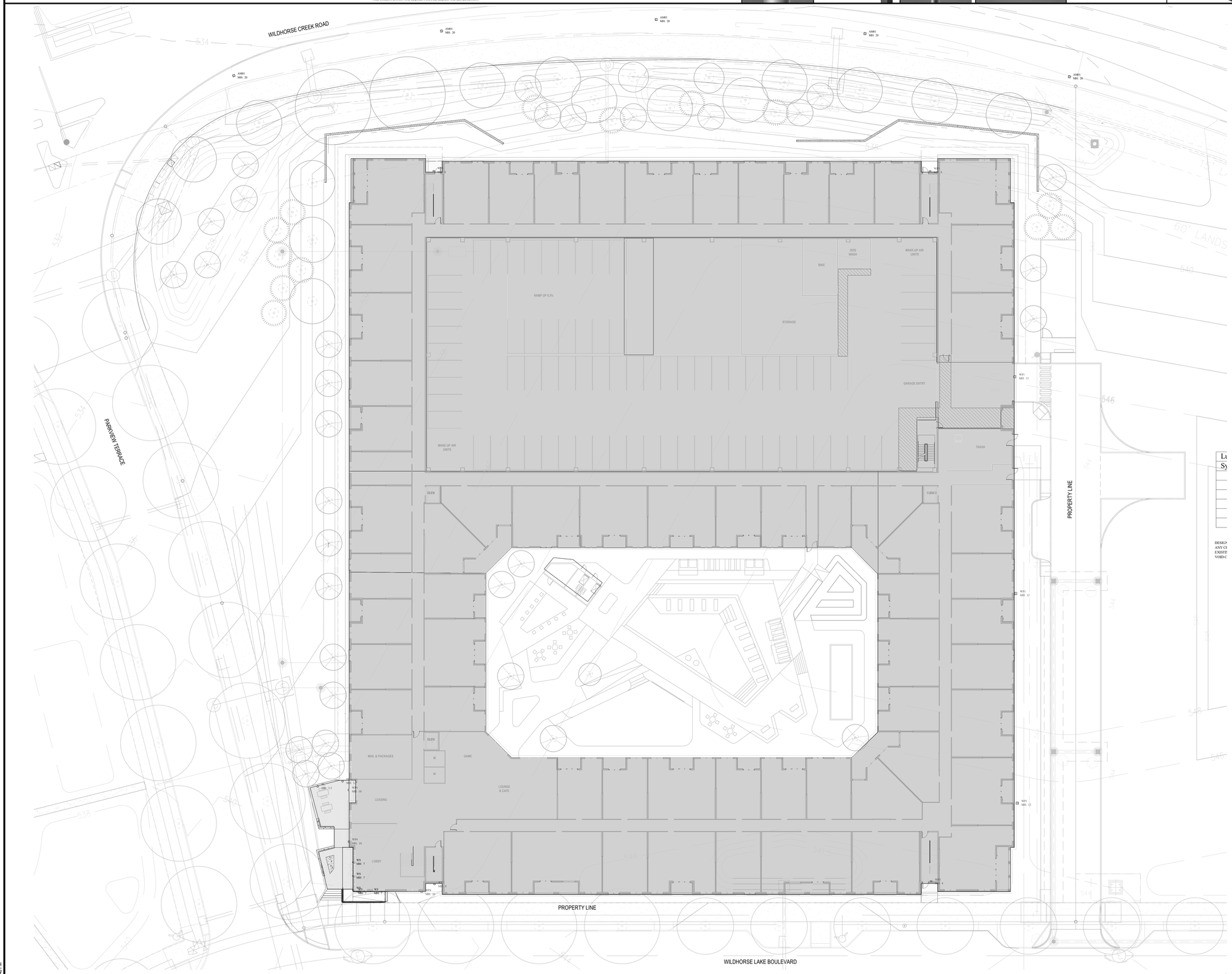
FIXTURE IMAGERY

BL	S1	S2	S3	WP1	WP3	WP4	AM01
							

Prevail XL

Prevail

WS



A1 / E1.1 SITE LIGHTING PLAN
1" = 20'-0"

0' 10' 20' 40'

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ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

STATE OF MISSOURI
JAMES ANDREW KILMER
NUMBER A-2009005036
CORPORATE ARCHITECT

WILDHORSE PPG @LOT 2A-1

PER PROPERTY GROUP
350 WILDHORSE LAKE BLVD

DRAWING ISSUE

DESCRIPTION	DATE
SDSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16
CITY COMMENTS	21-07-29

BUILDING MAP

DRAWING TITLE
SITE LIGHTING PLAN

DRAWING NO.
E1.1

Job # 20.0243

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ADA RAMP_Top	Illuminance	Fc	3.96	5.5	1.4	2.83	3.93
PARKING GARAGE TOP DECK	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PATIO AREA_Top	Illuminance	Fc	4.16	10.0	1.2	3.47	8.33
POOL SIDEWALK AREAS	Illuminance	Fc	0.00	0.0	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	0.65	9.1	0.0	N.A.	N.A.
ROADWAY	Illuminance	Fc	1.38	6.1	0.0	N.A.	N.A.

LIGHT LEVEL CALCULATED ON THE GROUND
MOUNTING HEIGHT NEXT TO FIXTURE LOCATION

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	LLF	Lum. Watts	Total Watts	Description
	5	AM01	SINGLE	0.900	96	480	PRV-C25-D-UNV-T4-BZ
	2	BL	SINGLE	0.900	23	46	ABB-B2-LED-42-D1-A
	3	WP1	SINGLE	0.912	59	177	GWC-SA1C-740-U-SL2
	4	WP3	SINGLE	0.900	16.4	65.6	MERU-AC
	3	WP4	SINGLE	0.900	20.7	62.1	AXCS2A
	5	WS	Single	0.900	29.3	146.5	700OWCOS18WC830UNV

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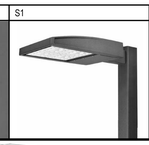
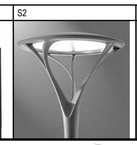
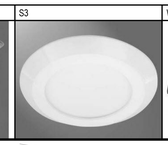
FIXTURE IMAGERY

BL	S1	S2	S3	WP1	WP3	WP4	AM01
							

Prevail XL

Prevail

WS

A1 / E1.2 SITE LIGHTING PLAN PHOTOMETRIC
1" = 20'-0"

0' 10' 20' 40'

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ARCHITECT OF RECORD
Lamar Johnson Collaborative

DESIGN ARCHITECT
ARCTURIS

JAMES ANDREW KILMER
NUMBER A-2009005036
LICENSED ARCHITECT
STATE OF MISSOURI

WILDHORSE PPG @LOT 2A-1

PER PROPERTY GROUP
350 WILDHORSE LAKE BLVD

DRAWING ISSUE

DESCRIPTION	DATE
SDSP SUBMITTAL	21-04-28
CITY COMMENTS	21-05-28
LAY-BY LOADING	21-06-16
CITY COMMENTS	21-07-29

BUILDING MAP

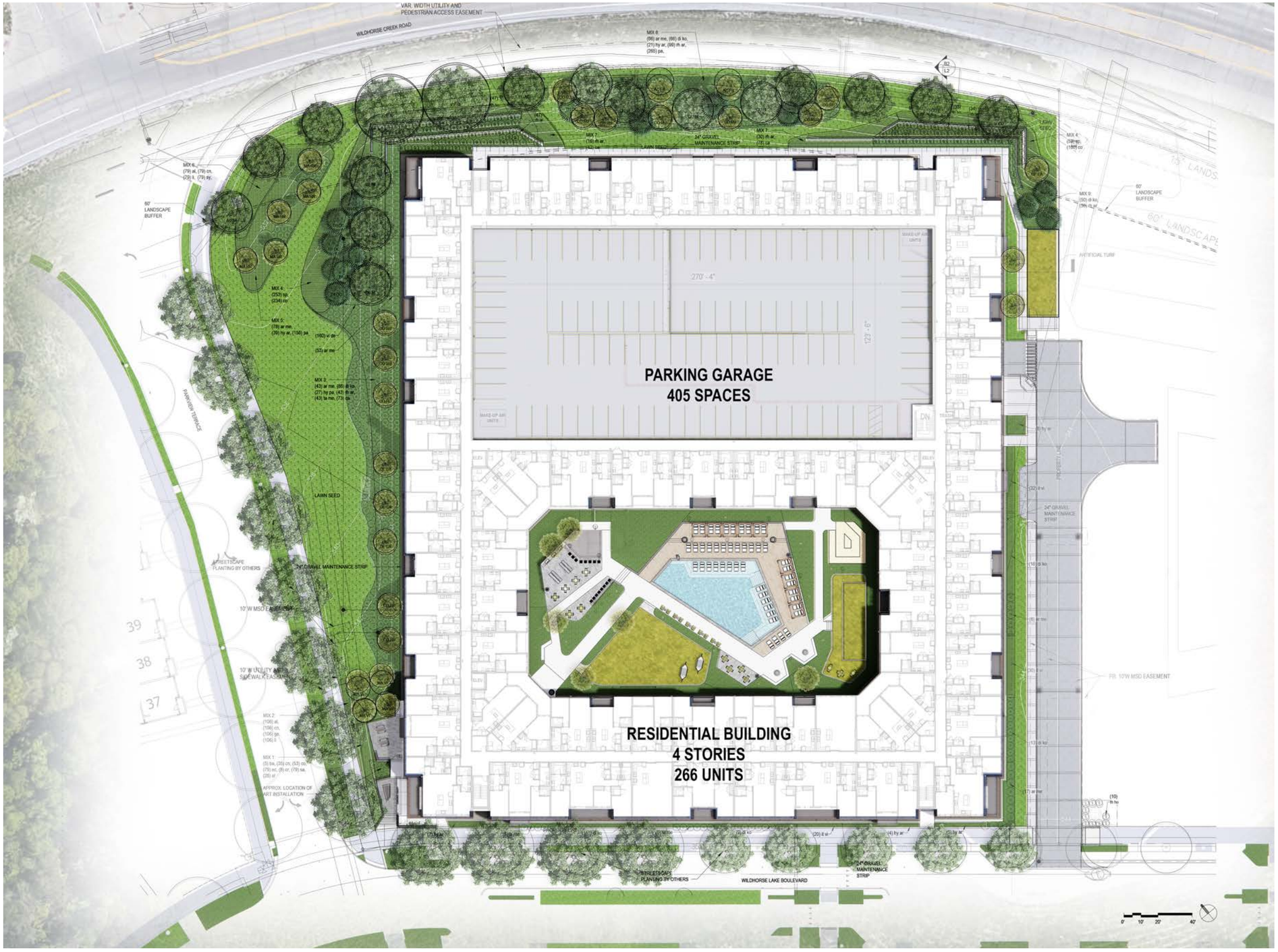
DRAWING TITLE
SITE LIGHTING PHOTOMETRIC PLAN

DRAWING NO.
E1.2

Job # 20.0243

THE FLATS AT WILDHORSE VILLAGE

Site Plan


WILDHORSE CREEK ROAD
VAR. WIDTH UTILITY AND PEDESTRIAN ACCESS EASEMENT
60' LANDSCAPE BUFFER
PARKVIEW TERRACE
LAWN SEED
STREETSCAPE PLANTING BY OTHERS
24" GRAVEL MAINTENANCE STRIP
10' W MSD EASEMENT
10' W UTILITY AND SIDEWALK EASEMENT
APPROX. LOCATION OF ART INSTALLATION
PARKING GARAGE
405 SPACES
RESIDENTIAL BUILDING
4 STORIES
266 UNITS
ARTIFICIAL TURF
WILDHORSE LAKE BOULEVARD
PR. 10'W MSD EASEMENT
0' 10' 20' 40'

Rendering - Wildhorse Lake BLVD & Parkview Terrace

Rendering - Main Entry at Wildhorse Lake BLVD

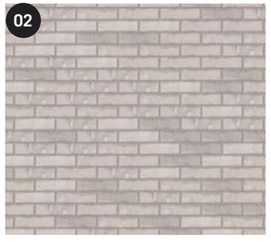
Rendering - Wild Horse Creek Road Looking West

Rendering - Wild Horse Creek Road Looking SE

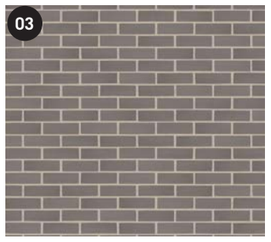
Rendering - Courtyard

Exterior Building Materials

BRICK 01
Manuf: Sioux City Brick
Style: Modular
Color: White Velour



BRICK 02
Manuf: Glen Gery
Style: Modular
Color: Morning Dove



BRICK 03
Manuf: Glen Gery
Style: Modular
Color: Urban Grey

VINYL WINDOW
Manuf: TBD
Style: Fixed & Single Hung
Color: Black & White

METAL RAILING
Manuf: ATR
Style: Cable Railing
Color: Paint to Match

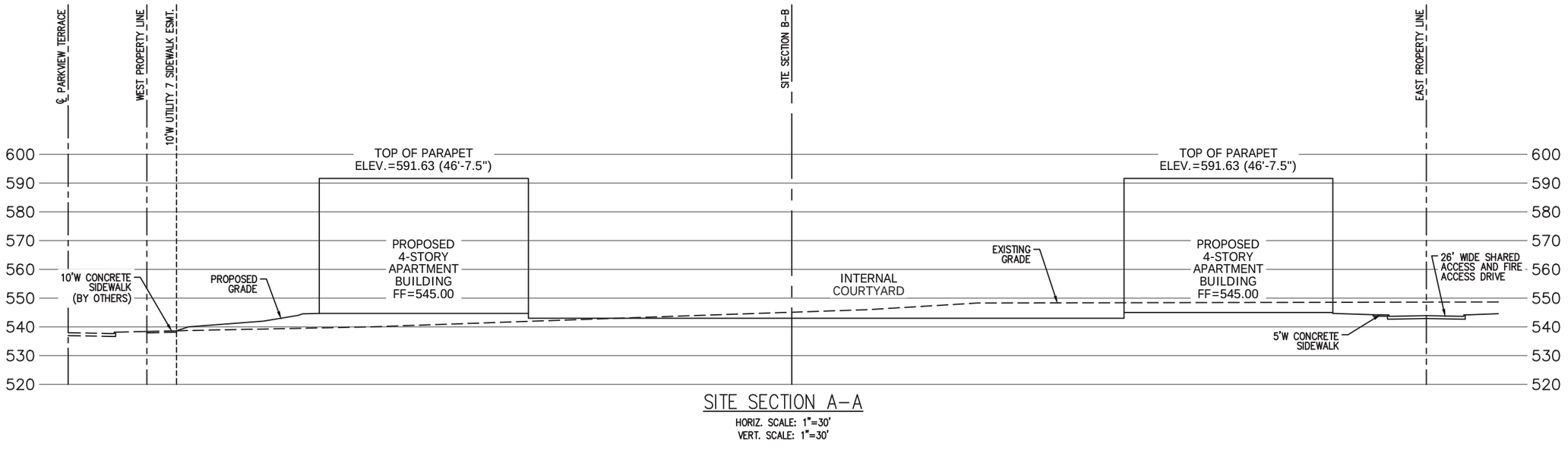
MASONRY VENEER 01
Manuf: Earthworks
Style: EW Gold L4/L5
Finish: Brushed

METAL SHINGLE 01
Manuf: Atas
Style: Standing Seam
Color: Charcoal Grey

FIBER CEMENT 02
Manuf: James Hardie
Style: Hardiepanel
Color: Pearl Gray

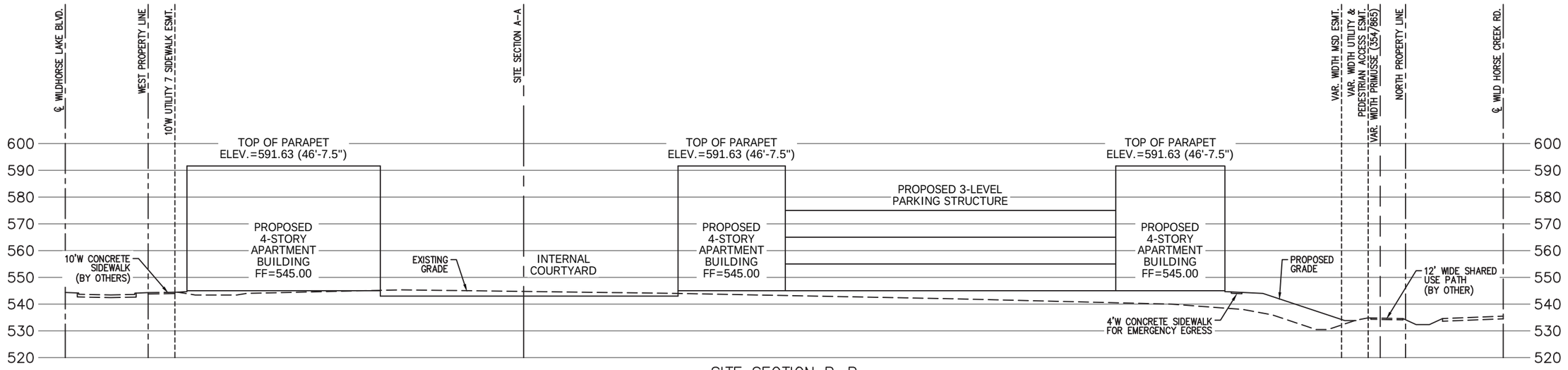
FIBER CEMENT 01
Manuf: Woodtone
Style: Rustic Series
Color: Cascade Slate

Building Sections



SITE SECTION A–A

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=30'



SITE SECTION B–B

HORIZ. SCALE: 1"=30'
VERT. SCALE: 1"=30'

Rooftop Screening

1 A0-07 NORTH-SOUTH SECTION
1/16" = 1'-0"

2 A0-07 EAST-WEST SECTION
1/16" = 1'-0"

Architect's Statement

General Requirements for Site Design:

- Site Relationship

The proposed project is part of the larger Wildhorse Village development and as such conforms to and incorporates the site design requirements as outlined in Ordinance 3114. The project is bordered to the north by Aventura at Wild Horse Creek Apartments and Wildhorse Apartments along Wild Horse Creek Road. Lots to the east, west, and south are also part of the larger Wildhorse Village development with uses as allowed in Ordinance 3114. The Flats at Wildhorse Village is planned to embrace views of the existing lake to the south and to intentionally tie into the planned streets, sidewalks and trails of Wildhorse Village. Public art is proposed near the main entry of the development at Parkview Terrace and Wildhorse Lake BLVD.

- Circulation System and Access

The site is accessed via one curb-cut shared between lots 2A-1 and 2A-2. All vehicular access will utilize this drive for tenant parking, loading and trash. There are no other internal drives. Internal pedestrian sidewalks and paths connect to the large pedestrian paths of the Wildhorse Village development.

- Topography

The site slopes from a high point at the southwest corner property line towards the northeast, falling approximately 10 feet.

- Retaining Walls

Due to the topography of the site, the prosed development utilizes a series of terraced retaining walls at the northeast and northwest corners of the building. The walls are designed to be minimal in appearance with heights ranging between 3-5 feet. Extensive landscaping will help obscure the walls from Wild Horse Creek Road. The retaining walls will be constructed of modular masonry.

General Requirements for Building Design:

- Scale

Great consideration and has been given regarding the massing and scale of the architecture. This development has been designed in concert with the density and urban aspirations of the Wildhorse Village master plan. The building utilizes an articulation pattern of voids and recesses with unifying roof elements to create a rhythm of "corners and edges." These "corner and edges" help breakdown the façade into individual townhome-like elements, similar in scale to classic European and historic US streets. Other façade elements like the inset balconies, protruding balconies and open terraces provide that extra layer of depth and activity not found in other multifamily development. The residential building completely conceals the parking garage, blocking unwanted views. Finally, the implied 4th floor attic story helps to breakdown the vertical scale of the building while also provide interesting visual relief and architectural continuity.

- Design

The architecture intends to instill a feeling of quality and quiet sophistication by blending clean, modern aesthetics with hints of classical forms and organization. High contrasting elements like the white brick against the black windows provide visual interest, as do the deeply inset balconies and terraces. The subtle sloped roof forms at the 4th floor insets also play on expectations of modern and classical design. Programmatically, the development utilizes one point of entry to help localize and isolate servicing. The trash room and parking garage are internal, fully concealed from public view. Conversely, locating the main entry at the corner of Parkview Terrace and Wildhorse Lake BLVD will help to activate the corner and provide interest at a main entry point in to the larger Wildhorse Village development. Overall, the building is strong yet subdued, aging well over time and providing a fitting backdrop to the urban fabric.

- Materials and Color

The main building materials will be white brick, vision glass, gray metal shingles, gray fiber cement panels and wood tone fiber cement panels. Black vinyl doors and windows with Low E glazing will be used at all residential units. Black anodized storefront system with insulated glass units (IGUs) will be located at the main entry lobby. The monochromatic color palette of the project of whites, grays and blacks juxtaposed to create high-contrasting elements providing interest.

- Landscape Design, Screening and Fencing

The development incorporates a comprehensive landscape design package intended to enhance natural features, views, as well as integrate into the Wildhorse Village master landscape plan. Where possible, site utilities will be screened by plantings. At decorative metal railing encloses the dog run at the northeast corner of the property.

ARCTURIS
design collaborative

July 26, 2021

Mike Knight – Assistant City Planner
City of Chesterfield
690 Chesterfield Pkwy W.
Chesterfield MO 63017

RE: Wildhorse Village Lot 2A-1 “The Flats at Wildhorse Village” Architecture Review Board Response

Dear Mr. Mike Knight,

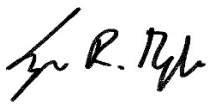
Please find the following written responses to the itemized conditions of the Architectural Review Board’s recommendation to approve during the July 8, 2021, meeting. In addition to the written response, we have an electronic PDF submission of the revised architectural exhibits.

- Provide a color for the rooftop units and match with the surrounding rooftop.
    - **Response: Rooftop equipment finish color will be light gray to match the gray roofing membrane**.
- Additional handrailing added to address building code compliance should be consistent with the existing railings depicted for the project.
    - **Response: Final handrail selections will be black anodized aluminum, consistent with the depicted handrails at the balconies.**
- Provide the decibel levels of mechanical equipment within the parking garage.
    - **Response: Estimated decibel level of the fully enclosed mechanical equipment for (8) garage make-up air units (2 per levels 1 through 4) – 50db/each.**
    -
- Evaluate the base of the building and incorporate additional material and/or color to soften the white velour brick of the building.

- **Response: Two additional brick colors have been added to the project: “Morning Dove” and “Urban Grey”. The slightly darker and warmer “Urban Grey” brick provides a horizontal band at the first floor, consistent with comments made by ARB members. A pergola element has been added at the four primary corners of the building. Please refer to the submitted architectural exhibits.**

Please don’t hesitate to reach out to me directly with any comments or questions.

Sincerely,



Tyson Pyle, AIA
Director of Architecture

cc: Michael Hamburg (michael@pierpropertygroup.com)
George M. Stock (george.stock@stockassoc.com)
Drew Dixon (andrew.dixon@stockassoc.com)
Ben Revelle (RevelleB@theljc.com)
Ben Buehrle (BuehrleB@theljc.com)
John Prather (JPRATHER@arcturis.com)

Project		**Catalog #**	PRV-C25-D-UNV-T4-SA-BK-OA/RA1016	**Type**	AM01
Prepared by		**Notes**		**Date**	

Lumark

PRV / PRV-XL Prevail LED

Area / Site Luminaire

Product Features

LumenSafe Technology

Interactive Menu

Product Certifications

ISO Systems Certified, UL Certified, DLC Listed, DLC QPL Listed Premium, FC Class A CAN ICES-005, RoHS Compliant, IP66, ida Dark Sky Approved, 5 Year Limited Warranty

Quick Facts

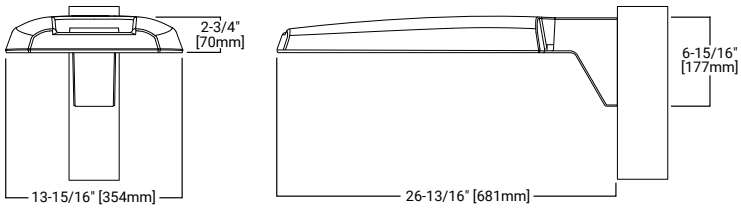
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems

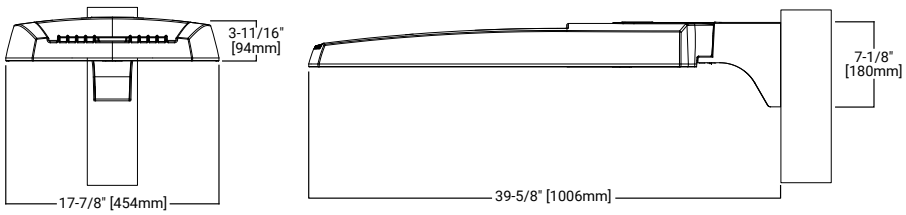
- WaveLinx
- Enlighted

Dimensional Details

Prevail



Prevail XL



Ordering Information

SAMPLE NUMBER: **PRV-XL-C75-D-UNV-T4-SA-BZ**

PRV-C25-D-UNV-T4-SA-BK-OA/RA1016

Product Family [1,2]	Light Engine [3]	Driver	Voltage	Distribution	Mounting (Included)	Color
PRV=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **347**=347V **480**=480V [4]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=Standard Versatile Arm **MA**=Mast Arm **WM**=Wall Mount Arm	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens					

Options (Add as Suffix)

7030=70 CRI / 3000K CCT [5]
7035=70CRI / 3500K CCT [5]
7050=70 CRI / 5000K CCT [5]
HSS=House Side Shield [6]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
10K=10kV UL 1449 Fused Surge Protective Device
20MSP=20kV MOV Surge Protective Device
20K=Series 20kV UL 1449 Surge Protective Device
HA=50°C High Ambient Temperature [7]
PER=NEMA 3-PIN Twistlock Photocontrol Receptacle
PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle
SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [24]
SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [24]
MSP/DIM-L12=Integrated Sensor for Dimming Operation, 8' – 12' Mounting Height [8,9]
MSP/DIM-L30=Integrated Sensor for Dimming Operation, 12' – 30' Mounting Height [8,9]
MSP-L12=Integrated Sensor ON/OFF Operation, 8' – 12' Mounting Height [8,9]
MSP-L30=Integrated Sensor ON/OFF Dimming Operation, 12' – 30' Mounting Height [8,9]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' – 20' Mounting Height [9,10]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' – 40' Mounting Height [9,10]
MS-L20=Motion Sensor for ON/OFF Operation, 9' – 20' Mounting Height [9,10]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' – 40' Mounting Height [9,10]
ZD=DALI-enabled 4-PIN Twistlock Receptacle [9,11,12]
ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle [9,11,12]
SWPD4XX=Wavelinx Wireless Sensor, 7' – 15' Mounting Height [9,11,12,13,14]
SWPD5XX=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [9,11,12,13,14]
LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' – 16' Mounting Height [9,15]
LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' – 40' Mounting Height [9,15]
(See Table Below)=LumenSafe Integrated Network Security Camera [16,17]
CC=Coastal Construction [23]

Accessories (Order Separately) [18]

PRVWM-XX=Wall Mount Kit [8]
PRVMA-XX=Mast Arm Mounting Kit [8]
PRVSA-XX=Standard Arm Mounting Kit [8]
PRVXLSA-XX=Standard Arm Mounting Kit (for Prevail XL) [16]
PRVXLWM-XX=Wall Mount Kit (for Prevail XL) [16]
PRVXLMA-XL=Mast Arm Mounting Kit (for Prevail XL) [16]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
HS/VERD=House Side Shield [6,19]
VGS-F/B=Vertical Glare Shield, Front/Back [19]
VGS-SIDE=Vertical Glare Shield, Side [19]
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=NEMA Photocontrol – 120V
OA/RA1016=NEMA Photocontrol – Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol – 347V
OA/RA1027=NEMA Photocontrol – 480V
ISHH-01=Integrated Sensor Programming Remote [20]
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [21]
SWPD4-XX=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [12,13,14]
SWPD5-XX=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [12,13,14]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) [22]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
3. Standard 4000K CCT and 70CRI.
4. 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).
5. Use dedicated IES files on product website for non-standard CCTs.
6. Option will come factory-installed. House Side Shield not suitable with T5 distribution or C60 lumen package.
7. Not available with C60 lumen package.
8. Only available in PRV configurations C15, C25, C40 or C60.
9. Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW, ZD or LWR).
10. Utilizes the Wattstopper sensor FSP-211.
11. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
12. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
13. Replace XX with sensor color (WH, BZ, or BK).
14. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
15. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
16. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
17. Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatibility information.
18. Replace XX with paint color.
19. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6).
20. This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
21. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW, ZD or LWR). Operates on 120-347V input voltages.
23. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
24. Smart device with mobile application required to change system defaults. See controls section for details.

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

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology	**D**=Dome Camera	**C**=Cellular, Customer Installed SIM Card **A**=Cellular, Factory Installed AT&T SIM Card **V**=Cellular, Factory Installed Verizon SIM Card **S**=Cellular, Factory Installed Sprint SIM Card **E**=Ethernet Networking

Stock Ordering Information

Product Family [1]	Light Engine	Voltage	Distribution	Options (Add as Suffix)
PRVS=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V [2]	**T3**=Type III **T4**=Type IV	**MSP/DIM-L30**=Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height [2]
PRVS-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens			

NOTES:

1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRVS configurations C15, C25, C40 or C60.

DESCRIPTION

The Arbor Bollard from Invue brings architectural style to the pedestrian level. The Arbor Bollard can be used along with Arbor post top luminaires to provide a coordinated look sure to enhance any architectural setting. WaveStream™ LED optics present a pixilation free image replacing visible glare, while providing high levels of pavement illumination.

Catalog #	ABB-B2-LED-42-D1-A-**	Type
Project		BL
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Top Housing: Low copper, cast aluminum top maintains strength and precision while providing for: rapid heat dissipation, vandal resistance and superior dayform. Lower Housing: Heavy 0.188" wall seamless extruded aluminum 4" O.D. shaft attaches to base via stainless steel fasteners. BASE: Rugged corrosion resistant extruded aluminum base mounts to foundation with three anchor bolts. Base features a pliable 1/2" thick neoprene leveling pad fitted to the bottom of base allows for sealing against water and dirt ingress regardless of minor deviations in grade of concrete pad.

Optics
General purpose symmetric distribution is available using WaveStream LED optical technology. The optical waveguide is manufactured using precision injection molded acrylic for the ultimate level of glare control and visual comfort. Offered standard in 4000K (+/- 275K) CCT, optional 3000K minimum 80 CRI.

Electrical
LED driver(s) are mounted to electrical tray for easy installation and maintenance for 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. Offered standard with 0-10V dimming driver and Cooper Lighting Solutions' proprietary circuit module designed to withstand 10kV of transient line surge. Luminaire is suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F) and IP66 rated against the ingress of dust and water.

Controls
The Arbor Bollard options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MSP) and bi-level dimming (MSP/DIM) operation. An optional handheld remote (ISHH) allows custom programming to suit all needs.

Mounting
Luminaire is mounted to 3 x 1/2" anchor bolts on a 2-3/8" bolt circle to with stand a 600 pound overturn moment. Order anchor bolts and installation template separately (ABAnchor).

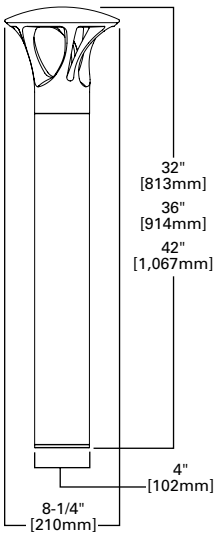
Finish
Cooper Lighting Solutions utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Cooper Lighting Solutions to serve functionally as well as decorative. Good film appearance combinded with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

Warranty
Five-year warranty.

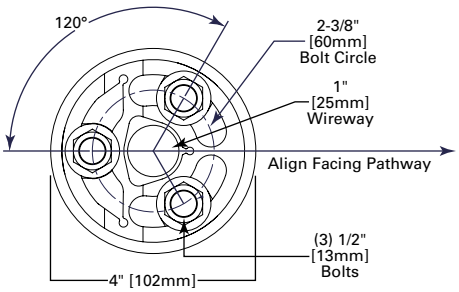
ABB ARBOR BOLLARD

PATHWAY LUMINAIRE

DIMENSIONS



BOLT CIRCLE ORIENTATION



CERTIFICATION DATA

UL/cUL Listed
IP66 Housing
ISO 9001
RoHS
Dark Sky Approved (3000K CCT and warmer only)

ENERGY DATA

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

Approximate Net Weight:
19.25 lbs. [8.75 kgs.]

POWER AND LUMENS

Lumen/Distribution	B1 Symmetric	B2 Symmetric	B1 Asymmetric	B2 Asymmetric
Drive Current				
Power Wattage (Watts)	16W	32W	11W	23W
Input Current (mA) @ 120V	140	270	100	200
Input Current (mA) @ 208V	80	160	60	120
Input Current (mA) @ 240V	70	140	50	100
Input Current (mA) @ 277V	60	120	40	90
Power Wattage (Watts)	19W	37W	13W	27W
Input Current (mA) @ 347V	60	110	40	80
Input Current (mA) @ 480V	180	320	120	240
Optics				
Lumens	717	1,276	472	848
BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G1	B1-U0-G2

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (Hours)
25°C	>94%	>350,000
40°C	>93%	>250,000
50°C	>90%	>170,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

LUMEN MULTIPLIER

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

COLOR TEMPERATURE

Color Temperature (CCT)	CRI (Nominal)	Multiplier (Hours)
4000	70	1.00
3000	80	0.87

ORDERING INFORMATION

Sample Number: ABB-B2-LED-42-D1-A-GM

Product Family	Lumen Output [1]	Source	Nominal Height	Voltage	Distribution	Color
ABB=Arbor Bollard	**B1**=Mid Lumen Output **B2**=High Lumen Output	**LED**	**30**=32" **36**=36" **42**=42"	**D1**=Dimming Driver (120-277V) [2] **347**=347V [3] **480**=480V [3,4]	**A**=Asymmetric **S**=Symmetric	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White **CC**=Custom Color [5]

Options (Add as Suffix)	**Accessories** (Order Separately)
8030=80 CRI / 3000K CCT [6] **HA**=High Ambient [7] **MS/DIM-H8**=Motion Sensor for Dimming or Bi-Level Operation (Horizontal Detection) [8] **MS/DIM-2H8**=Twin Motion Sensors for 360° Dimming or Bi-Level Operation (Horizontal Detection) [8] **DIM**=0-10V Dimming Driver Leads Brought Out from Fixture	**ABAnchor**=Anchor Bolt Kit and Template [9] **ISHH**=Wireless Configuration Tool for Integrated Sensor (Occupancy Sensor Settings)

NOTES:
1. Standard 4000K CCT nominal 70 CRI.
2. Dimming driver standard.
3. Requires the use of a step down transformer.
4. 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).
5. RAL and custom color matching available. Consult your lighting representative at Cooper Lighting Solutions for more information.
6. Extended lead times apply. Use dedicated IES files when performing layouts.
7. 50°C ambient rating.
8. The ISHH configuration tool is required to adjust parameters including high and low dimming levels, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
9. Contact your customer service representative at Cooper Lighting Solutions for advance shipping.

Project		**Catalog #**	GLEON-SA2C-740-5WQ-**	**Type**	S1
Prepared by		**Notes**		**Date**	

McGraw-Edison

GLEON Galleon

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

Product Certifications

Product Features

LumenSafe Technology · Enlighted · WaveLinx · Light ARchitect™

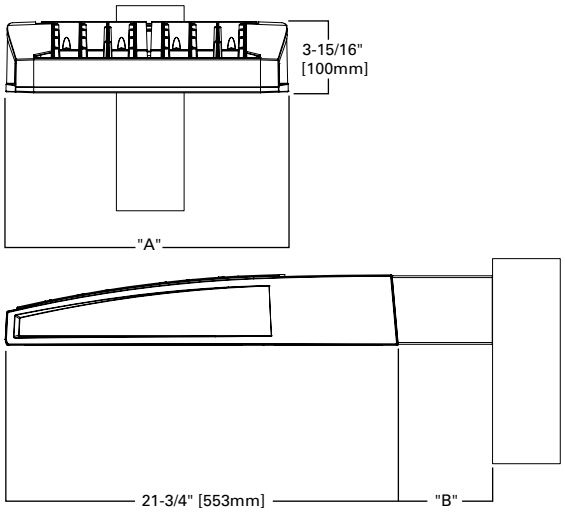
Quick Facts

- Lumen packages range from 4,200 - 80,800 (34W - 640W)
- Efficacy up to 156 lumens per watt

Connected Systems

- WaveLinx
- Enlighted

Dimensional Details



Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Extended Arm Length [1]	"B" Quick Mount Arm Length	"B" Quick Mount Extended Arm Length
1-4	15-1/2"	7"	10"	10-5/8"	16-9/16"
5-6	21-5/8"	7"	10"	10-5/8"	16-9/16"
7-8	27-5/8"	7"	13"	10-5/8"	--
9-10	33-3/4"	7"	16"	--	--

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

Ordering Information

GLEON-SA2C-740-U-5WQ-***

SAMPLE NUMBER: **GLEON-SA4C-740-U-T4FT-GM**

Product Family [1, 2]	Light Engine		Color Temperature	Voltage	Distribution	Mounting	Finish
	Configuration	Drive Current					
GLEON=Galleon	**SA1**=1 Square **SA2**=2 Squares **SA3**=3 Squares **SA4**=4 Squares **SA5**=5 Squares [4] **SA6**=6 Squares **SA7**=7 Squares [5] **SA8**=8 Squares [5] **SA9**=9 Squares [6] **SA0**=10 Squares [6]	**A**=600mA **B**=800mA **C**=1000mA **D**=1200mA [16]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [14, 16]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [7, 8] **9**=347V [7]	**T2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **5NQ**=Type V Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **AFL**=Automotive Frontline	**[Blank]**=Arm for Round or Square Pole **EA**=Extended Arm [9] **MA**=Mast Arm Adapter [10] **WM**=Wall Mount **QM**=Quick Mount Arm (Standard Length) [11] **QMEA**=Quick Mount Arm (Extended Length) [12]	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)

DIM=External 0-10V Dimming Leads [19, 20]
F=Single Fuse (120, 277 or 347V Specify Voltage)
FF=Double Fuse (208, 240 or 480V Specify Voltage)
20K=Series 20kV UL 1449 Surge Protective Device
2L=Two Circuits [17, 18]
HA=50°C High Ambient
HSS=Installed House Side Shield [28]
GRSBK=Glare Reducing Shield, Black [23]
GRSWH=Glare Reducing Shield, White [23]
LCF=Light Square Trim Painted to Match Housing [27]
MT=Installed Mesh Top
TH=Tool-less Door Hardware
CC=Coastal Construction finish [3]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
CE=CE Marking [29]
AHD145=After Hours Dim, 5 Hours [22]
AHD245=After Hours Dim, 6 Hours [22]
AHD255=After Hours Dim, 7 Hours [22]
AHD355=After Hours Dim, 8 Hours [22]
DALI=DALI Drivers

Controls and Systems Options (Add as Suffix)

BPC=Button Type Photocontrol
PR=NEMA 3-PIN Photocontrol Receptacle
PR7=NEMA 7-PIN Photocontrol Receptacle [21]
SPB2=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting [34]
SPB4=Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting [34]
MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [24]
MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [24]
MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height [24, 25]
MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height [24, 25]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [24]
MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [24]
ZW=WaveLinx Module and 4-PIN Receptacle
ZD=WaveLinx Module with DALI driver and 4-PIN Receptacle
SWPD4XX=WaveLinx Sensor Only, 7'-15' [13, 32, 33]
SWPD5XX=WaveLinx Sensor Only, 15'-40' [13, 32, 33]
WOBXX=WaveLinx Sensor with Bluetooth, 7'-15' [13, 32]
WOFXX=WaveLinx Sensor with Bluetooth, 15'-40' [13, 32]
LWR-LW=Enlighted Sensor, 8'–16' Mounting Height [26]
LWR-LN=Enlighted Sensor, 16'–40' Mounting Height [26]
DIM10-MS/DIM-L08=Synapse Occupancy Sensor (<8' Mounting) [19]
DIM10-MS/DIM-L20=Synapse Occupancy Sensor (9'-20' Mounting) [19]
DIM10-MS/DIM-L40=Synapse Occupancy Sensor (21'-40' Mounting) [19]

Accessories (Order Separately)

OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V
OA/RA1027=NEMA Photocontrol - 480V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=120V Photocontrol
MA1252=10kV Surge Module Replacement
MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1037-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
MA1197-XX=3@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1188-XX=4@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1189-XX=2@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1190-XX=3@90° Tenon Adapter for 2-3/8" O.D. Tenon
MA1191-XX=2@120° Tenon Adapter for 2-3/8" O.D. Tenon
MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1039-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1192-XX=3@120° Tenon Adapter for 3-1/2" O.D. Tenon
MA1193-XX=4@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1194-XX=2@90° Tenon Adapter for 3-1/2" O.D. Tenon
MA1195-XX=3@90° Tenon Adapter for 3-1/2" O.D. Tenon
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [24]
GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares
GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares
GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares
GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares
GLEON-QM=Quick Mount Arm Kit [11]
GLEON-QMEA=Quick Mount Extended Arm Kit [12]
LS/HSS=Field Installed House Side Shield [28, 30]
LS/GRSBK=Glare Reducing Shield, Black [23, 30]
LS/GRSWH=Glare Reducing Shield, White [23, 30]
LS/PFS=Perimeter Shield, Black [15]
WOLC-7P-10A=WaveLinx Outdoor Control Module [19, 31]
SWPD4-XX=Wavelinx Wireless Sensor, 7'–15' Mounting Height [13, 19, 32, 33]
SWPD5-XX=Wavelinx Wireless Sensor, 15'–40' Mounting Height [13, 19, 32, 33]

NOTES:
1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
2. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
3. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. Not available with TH option.
4. Not compatible with MS/4-LXX or MS/1-LXX sensors.
5. Not compatible with extended quick mount arm (QMEA).
6. Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA).
7. Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
8. 480V must utilize Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems.)
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. Requires ZW or ZD receptacle.
14. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
15. Set of 4 pcs. One set required per Light Square.
16. Not available with HA option.
17. 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in SA2 through SA4 requires a larger housing, normally used for SA5 or SA6. 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 BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
23. Not for use with T4FT, T4W or SL4 optics. See IES files for details.
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.
27. Not available with house side shield (HSS).
28. Not for use with 5NQ, 5MQ, 5WQ or RW optics. A black trim plate is used when HSS is selected.
29. CE is not available with the LWR, MS, MS/X, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
30. One required for each Light Square.
31. Requires PR7.
32. Replace XX with sensor color (WH, BZ or BK.)
33. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
34. Smart device with mobile application required to change system defaults. See controls section for details.

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

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

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream™ LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

Catalog #	ARB-B3-LED-D1-T5-**	**Type**
Project		S2
Comments		**Date**
Prepared by		

SPECIFICATION FEATURES

Construction
Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics
Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical
LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance. Standard 0-10V dimming drivers and Cooper Lighting Solutions' proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications as low as -40°C (40°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. See control options page for more details.

Mounting
Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

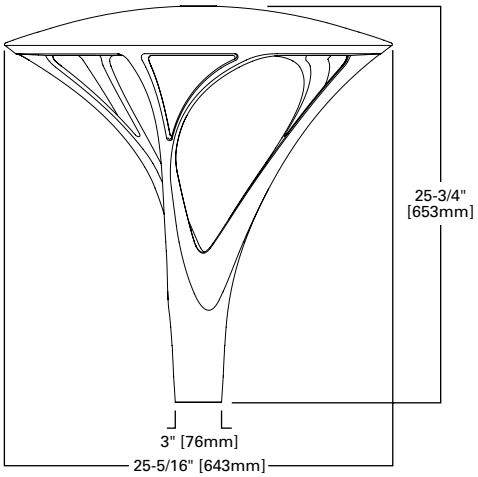
Finish
Cooper Lighting Solutions ("CLS") utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for CLS to serve functionally as well as decorative. Good film appearance combinded with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

Warranty
Five-year warranty.

ARB ARBOR POST TOP

DECORATIVE LUMINAIRE

DIMENSIONS



CERTIFICATION DATA

UL/cUL Listed
ANSI C136.31 1.5G Vibration Tested
IEG 60529 IP66 Housing
ASTM B117 SaH Spray Tested
ASTM A3560 Low Cooper Alloy
ISO 9001
Dark Sky Approved (3000K CCT and warmer only)

ENERGY DATA

Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
40°C Ambient Temperature Rating
As low as -40°C (-40°F) minimum temperature
*See MINIMUM TEMPERATURE table

EPA

Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
37 lbs. [16.8 kgs.]

POWER AND LUMENS

Lumen Package		**B1**	**B2**	**B3**	**B4**
Drive Current					
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B3-U2-G3	--
Type III	Lumens	2,324	4,534	8,451	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
Type IV	Lumens	2,408	4,691	8,740	--
	BUG Rating	B1-U1-G1	B1-U2-G2	B2-U2-G3	--
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B2-U1-G1	B3-U2-G2	B3-U2-G3	B3-U2-G3

LUMEN MULTIPLIER

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

LUMEN MAINTENANCE

Ambient Temperature	**TM-21 Lumen Maintenance** (60,000 Hours)	**Calculated L70** (Hours)
25°C	>91%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

NOTE: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

COLOR TEMPERATURE

Color Temperature (CCT)	**CRI** (Nominal)	**Multiplier**
4000	70	1.00
3000	80	0.91

MINIMUM AMBIENT TEMPERATURE

Lumen Package	**Temperature**
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

ORDERING INFORMATION

ARB-B3-LED-D1-T5-**

Sample Number: ARB-B2-LED-D1-T2-GM

Product Family [1,2]	Lumens [3]	Lamp Type	Voltage	Distribution	Color [7]
ARB=Arbor Post Top	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [4]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5,6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	**Accessories** (Order Separately) [19]
7030=70 CRI / 3000K CCT [8] **7035**=70 CRI / 3500K CCT [8] **8030**=80 CRI / 3000K CCT [8] **8035**=80 CRI / 3500K CCT [8] **20MSP**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **PC**=Button Type Photocontrol **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **HA**=50°C High Ambient Temperature [9] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [23] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [23] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [23] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10,11] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10,11] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10,11] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10,11] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10,11] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10,11] **ZD**=DALI-enabled 4-PIN Twistlock Receptacle [10,11,12,13,14] **ZW**=Wavelinx-enabled 4-PIN Twistlock Receptacle [10,11,12,13] **SWPD4WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [10,11,12,13,15] **SWPD5WH**=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White [10,11,12,13,15] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [10,16] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [10,16] **5LTD**=Fifth Light Dali Driver [10,17] **DIM**=0-10V External Dimming Leads [10,18] **VS**=Tempered Glass Vandal Shield **CC**=Coastal Construction [24]	**ARSA-XX**=Single Pole Mount Arm [20] **ARWM-XX**=Wall Mount Arm **ARTA15-XX**=Twin Mount Bracket [21] **ARPA4-XX**=Pole Adapter 4" O.D. Pole **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [21] **SWPD4-WH**=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White [13,15] **SWPD5-WH**=Wavelinx Wireless Sensor, 16' - 40' Mounting Height, White [13,15] **WOLC-7P-10A**=Wavelinx Outdoor Control Module (7-PIN) [10,22]

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 information.
2. Fixture slipfits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
3. Standard 4000K CCT, nominal 70CRI.
4. B4 only available with Type V distribution.
5. Requires the use of a step down transformer.
6. 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).
7. Custom and RAL color matching available upon request. Consult your lighting representative for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with B3 lumen package in Type II, III, or IV distributions.
10. Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or other controls systems (MS, ZD, ZW, LWR, 5LTD, or DIM).
11. Not available with HA option.
12. Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
13. For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
14. Not available on B1 or B5 lumen packages.
15. Requires 4-PIN twistlock receptacle (ZD or ZW) option.
16. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
17. Not available in B4 lumen package.
18. Low voltage control leads brought 18" outside fixture.
19. Replace XX with paint color.
20. Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
21. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, ZW, ZD or LWR). Operates on 120-347V input voltages.
23. Smart device with mobile application required to change system defaults. See controls section for details.
24. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.

DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6-1200 UNV series is designed for installation in many 4" x 2-1/8" deep square junction boxes. Accessory mounting kit allows retrofit in 5" and 6" IC and Non-IC recessed housings.* Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

Catalog #	SLD612840UNVWH	Type
Project		S3
Comments		Date
Prepared by		

SPECIFICATION FEATURES

CONSTRUCTION
- Die cast aluminum trim ring, and die formed aluminum frame

OPTICS
- WaveStream™ technology provides uniform luminance from a low profile flat lens
- AccuAim™ optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight.
- Precision molded lens features high transmission polymer with UV stabilized protecting film

DESIGNER TRIMS
Accessories (sold separately)
SLD designer trims are accessory rings that attach to the SLD for a permanent finish.* Refer to SLD accessories specification sheet for details.
- White (Paintable)
- Satin Nickel
- Tuscan Bronze

*SLD accessory trims attach with permanent adhesion and are not interchangeable after installation.

ELECTRICAL JUNCTION BOX MOUNTING
- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 4" x 2-1/8" deep square electrical junction boxes.
- Driver consumes 3 cubic inches of junction box.
- Compatible with other junction boxes with accessory SLD6EXT extension spacer ring.
- Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes.
- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

OPTIONAL - RECESSED HOUSING MOUNTING
- Accessory SLD6ACCKIT required for mounting in 5" and 6" enclosed recessed housings
- May be installed in IC recessed housings in direct contact with insulation

* **Note:** Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013
- The SLD6 may be used with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in^3.

LED
- Linear LED arrays are integrated in trim perimeter
- Color Temperature: 2700K, 3000K, 3500K, 4000K
- CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/ certified to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-Residential Lighting Controls as a LED luminaire.

WARRANTY
Cooper Lighting Solutions provides a five year limited warranty on the SLD LED

LED CHROMATICITY
- A tight chromaticity specification ensures LED color uniformity, sustainable Color Rendering Index (CRI) and Correlated Color Temperature (CCT) over the useful life of the LED
- LED chromaticity of 3 SDCM exceeds ENERGY STAR® color standards per ANSI.
- 90 CRI model features high color performance with R9 greater than 50
- Every Halo LED is quality tested, measured, and serialized in a permanent record to register lumens, wattage, CRI and CCT.
- Halo LED serialized testing and measurement ensures color and lumen consistency on a per-unit basis, and validates long-term product consistency over time

ELECTRICAL CONNECTIONS
Junction Box
- Compatible with 4" x 2-1/8" deep square boxes
- Supply Wire Adapter with LED quick connector included
- LED connector is a non-screwbase luminaire disconnect for tool-less installation

Optional - Recessed Housings
- Accessory SLD6ACCKIT required.
- LED connector is compatible with Halo 5" H550 Series and 6" H750, H2750 Series LED Housings
- LED Connector meets California Title-24 high-efficacy luminaire standard as a non-screw base

LED DRIVER
- Driver is a 120V-277V universal voltage input, high efficiency, dimmable electronic power supply providing DC power to the LED arrays
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required
- If dimming is not required the fixutre may be operated from a switch

SLD6 1200 UNV Series

Universal Voltage

SLD6128xxWHUNVJB
80CRI
2700K, 3000K, 3500K, and 4000K

SLD6129xxWHUNVJB
90CRI
2700K, 3000K, 3500K, and 4000K

6" Surface LED Downlight

High Lumen 1200 Series Universal Voltage 120V-277V

Suitable for ceiling or wall electrical junction boxes

ENERGY DATA

	80 CRI	90 CRI
Lumens (4000K models)	1215	1000
Input Voltage	120V-277V	120V-277V
Frequency	50/60 Hz	50/60 Hz
Input Current	0.12 A	0.12 A
Input Power	14.8 W	14.8 W
Efficiency (4000K models)	82 lm/W	68 lm/W
THD	≤ 20%	
Power Factor	≥ 0.90	
T Ambient	-30 - +40°C	
Sound Rating	Class A	

NOMENCLATURE

SLD 612 8 30 WH UNV JB
612 = 6" SLD 1200 Series
8 = >80 CRI
30 = 3000K
WH = Matte White
UNV = Universal Voltage 120V-277V
JB = Junction Box Kit only

80 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Certified Products List.

90 CRI nominal CCT 2700K 3000K 3500K 4000K

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 High Efficacy requirements.
Certified to California Appliance Efficiency Database under JA8.
Indoor LED nominal CCT of 4000K or less.

COOPER Lighting Solutions

Project		Catalog #	GPC-SA1C-740-U-TT2-QM-**-HCC	Type	S4
Prepared by		Notes		Date	

McGraw-Edison

GPC Galleon Pedestrian Companion

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

Product Certifications

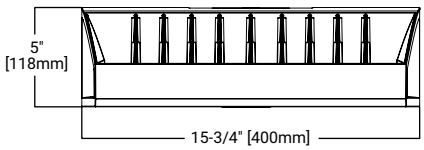
Product Features

WaveLinx Enlighted Light ARchitect™

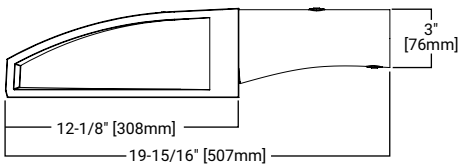
Quick Facts

- Choice of sixteen high-efficiency, patented AccuLED Optics™
- Quick mount pole or mast-arm mounting configurations
- Eight lumen packages from 3,215 up to 17,056 lumens
- IP66 rated housing and LED light squares

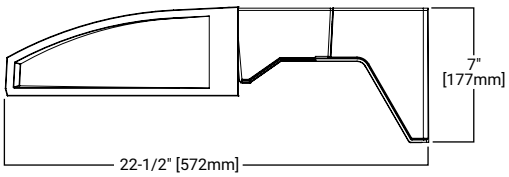
Dimensional Details



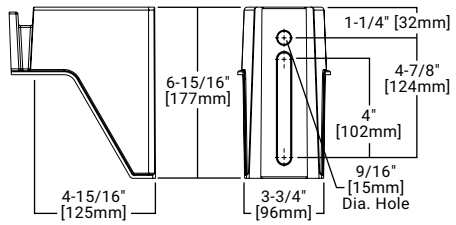
Mast Arm Mount



Mast Arm Mount



Quick Mount Arm (Pole Mounting Details)



Ordering Information

GPC-SAIC-740-U-TT2-QM-**-HCC

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

Product Family	Light Engine		Color Temperature	Voltage	Distribution	Mounting Options	Finish
	Configuration	Drive Current					
GPC=Galleon Pedestrian Companion	**SA1**=1 Square **SA2**=2 Squares [2]	**A**=615mA **B**=800mA **C**=1000mA **D**=1200mA [4]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [3, 4]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [6,7] **9**=347V [6]	**TT2**=Type II **T2R**=Type II Roadway **T3**=Type III **T3R**=Type III Roadway **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **5NQ**=Type V Square Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide **AFL**=Automotive Frontline	**QM**=Quick Mount Arm for Round or Square Pole [2,13] **MA**=2-3/8" Mast Arm [2, 14]	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix) [1]	Controls and Systems Options (Add as Suffix)	Accessories (Order Separately)
F=Single Fused (120, 277 or 347V. Must Specify Voltage) **FF**=Double Fused (208, 240 or 480V. Must Specify Voltage) **10K**=10kV Surge Module **20K**=20kV UL 1449 Fused Surge Protective Device **DIM**=External 0-10V Dimming Leads [9, 10] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **HSS**=Factory Installed House Side Shield [23] **GRSBK**=Factory Installed Glare Shield, BK [4, 27] **GRSWH**=Factory Installed Glare Shield, WH [4, 27] **UPL**=Uplight Housing [13] **HA**=50°C High Ambient [12] **LCF**=Light Square Trim Plate Painted to Match Housing [22] **MT**=Factory Installed Mesh Top **CC**=Coastal Construction finish [5] **CE**=CE Marking and Small Terminal Block [24] **AHD145**=After Hours Dim, 5 Hours [16] **AHD245**=After Hours Dim, 6 Hours [16] **AHD255**=After Hours Dim, 7 Hours [16] **AHD355**=After Hours Dim, 8 Hours [16] **DALI**=DALI Driver [11]	**BPC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [15] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [19,33] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [19,33] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [19,33] **MS-LXX**=Motion Sensor for On/Off Operation [17, 18, 19] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [17, 18, 19] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [29, 30] **ZD**=WaveLinx Module with DALI driver and 4-PIN Receptacle [29, 30] **SWPD4XX**=WaveLinx Sensor Only, 7'-15' [31, 32] **SWPD5XX**=WaveLinx Sensor Only, 15'-40' [31, 32] **WOBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [31, 32] **WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [31, 32] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [19, 20, 21] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [19, 20, 21]	**OA/RA1013**=Photocontrol Shorting Cap [28] **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V [28] **OA/RA1201**=NEMA Photocontrol - 347V [28] **OA/RA1027**=NEMA Photocontrol - 480V [28] **MA1252**=10kV Circuit Module Replacement **MA1059XX**=Thru-branch Back Box (Must Specify Color) **LS/HSS**=Field Installed House Side Shield [23, 25] **LS/GRSBK**=Glare Shield, Black [8, 25, 27] **LS/GRSWH**=Glare Shield, White [8, 25, 27] **LS/PFS**=Perimeter Shield, Black **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [17] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [26, 29] **SWPD4-XX**=Wavelinx Wireless Sensor, 7' – 15' Mounting Height [29, 30, 31, 32] **SWPD5-XX**=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [29, 30, 31, 32]

NOTES:

1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information
3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
4. Not available with HA option.
5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.
7. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. Reserved.
9. Cannot be used with other control options.
10. Low voltage control leads extended 18" from fixture.
11. Not available in 1200mA. When used with CBP or HA options, only available with single light square.
12. Not available in 1200mA, UPL or CBP options. Available with single light square.
13. Quick mount arm adapter is factory installed. Pole mounting bracket shipped in box. Suitable for 1.5G. Fits square and round poles up to 6" O.D.
14. Mast arm adapter factory installed (2-3/8" O.D. arm only). Suitable for 3G vibration.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
19. Includes integral photosensor.
20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.
21. Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
22. Not available with HSS or GRS options.
23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires PR7.
27. Not for use with T4FT, T4W or SL4 optics.
29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).
30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
31. Requires ZW or ZD receptacle.
32. Replace XX with sensor color (WH, BZ, or BK).
33. Smart device with mobile application required to change system defaults. See controls section for details.

Product Specifications

Construction

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

Optics

- Patented, high-efficiency injection-molded AccuLED Optics technology
- 13 optical distributions

Electrical

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

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

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

Warranty

- Five-year warranty

Project	WILDHOURSE VILLAGE	**Catalog #**	WP1 = GWC-SA1C-740-U-T4FT WP2 = GWC-SA1C-740-U-SLL	**Type**	WP1 & WP2
Prepared by		**Notes**		**Date**	

McGraw-Edison

GWC Galleon Wall

Wall Mount Luminaire

Typical Applications

Exterior Wall • Walkway

Interactive Menu

Product Certifications

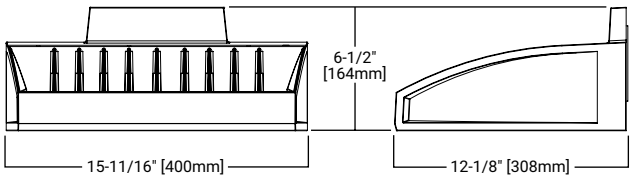
Quick Facts

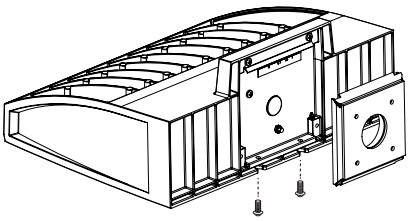
- Choice of thirteen high-efficiency, patented AccuLED Optics™
- Downward and inverted wall mounting configurations
- Eight lumen packages from 3,215 up to 17,056
- Efficacies up to 154 lumens per watt

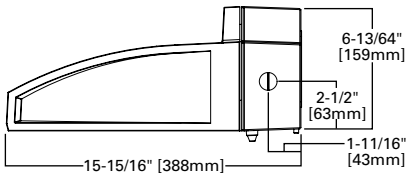
Connected Systems

- WaveLinx
- Enlighted

Dimensional Details







Ordering Information

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

WP1 = GWC-SAIC-740-U-T4FT
WP2 = GWC-SAIC-740-U-SLL

Product Family [1]	Light Engine		Color Temperature	Voltage	Distribution	Finish
	Configuration	Drive Current				
GWC=Galleon Wall	**SA1**=1 Square **SA2**=2 Squares [2]	**A**=615mA **B**=800mA **C**=1000mA **D**=1200mA [4]	**722**=70CRI, 2200K **727**=70CRI, 2700K **730**=70CRI, 3000K **735**=70CRI, 3500K **740**=70CRI, 4000K **750**=70CRI, 5000K **760**=70CRI, 6000K **827**=80CRI, 2700K **830**=80CRI, 3000K **AMB**=Amber, 590nm [3, 4]	**U**=120-277V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [6,7] **9**=347V [6]	**T2**=Type II **T3**=Type III **T4FT**=Type IV Forward Throw **T4W**=Type IV Wide **SL2**=Type II w/Spill Control **SL3**=Type III w/Spill Control **SL4**=Type IV w/Spill Control **SLL**=90° Spill Light Eliminator Left **SLR**=90° Spill Light Eliminator Right **RW**=Rectangular Wide Type I **5NQ**=Type V Square Narrow **5MQ**=Type V Square Medium **5WQ**=Type V Square Wide	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	**Controls and Systems Options** (Add as Suffix)	**Accessories** (Order Separately)
F=Single Fused (120, 277 or 347V. Must Specify Voltage) **FF**=Double Fused (208, 240 or 480V. Must Specify Voltage) **10K**=10kV Surge Module **20K**=Series 20kV UL 1449 Surge Protective Device **DIM**=External 0-10V Dimming Leads [9, 10] **CBP**=Battery Pack with Back Box, Cold Weather Rated [2, 4, 14, 33] **CBP-CEC**=Battery Pack with Back Box, Cold Weather Rated, CEC compliant [2, 4, 14] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **HSS**=Factory Installed House Side Shield [23] **GRSBK**=Factory Installed Glare Shield, BK [4, 27] **GRSWH**=Factory Installed Glare Shield, WH [4, 27] **UPL**=Uplight Housing [13] **HA**=50°C High Ambient [12] **LCF**=Light Square Trim Plate Painted to Match Housing [22] **MT**=Factory Installed Mesh Top **CC**=Coastal Construction finish [5] **CE**=CE Marking and Small Terminal Block [24] **AHD145**=After Hours Dim, 5 Hours [16] **AHD245**=After Hours Dim, 6 Hours [16] **AHD255**=After Hours Dim, 7 Hours [16] **AHD355**=After Hours Dim, 8 Hours [16] **DALI**=DALI Driver [11]	**BPC**=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [15] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [19,34] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8' - 20' Mounting [19,34] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21' - 40' Mounting [19,34] **MS-LXX**=Motion Sensor for On/Off Operation [17, 18, 19] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [17, 18, 19] **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [29, 30] **ZD**=WaveLinx Module with DALI driver and 4-PIN Receptacle [29, 30] **SWPD4XX**=WaveLinx Sensor Only, 7'-15' [31, 32] **SWPD5XX**=WaveLinx Sensor Only, 15'-40' [31, 32] **WOBXX**=WaveLinx Sensor with Bluetooth, 7'-15' [31, 32] **WOFXX**=WaveLinx Sensor with Bluetooth, 15'-40' [31, 32] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8'-16' Mounting Height [19, 20, 21] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16'-40' Mounting Height [19, 20, 21]	**OA/RA1013**=Photocontrol Shorting Cap [28] **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V [28] **OA/RA1201**=NEMA Photocontrol - 347V [28] **OA/RA1027**=NEMA Photocontrol - 480V [28] **MA1252**=10kV Circuit Module Replacement **MA1059XX**=Thru-branch Back Box (Must Specify Color) **LS/HSS**=Field Installed House Side Shield [23, 25] **LS/GRSBK**=Glare Shield, Black [8, 25, 27] **LS/GRSWH**=Glare Shield, White [8, 25, 27] **LS/PFS**=Perimeter Shield, Black **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [17] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-pin) [26, 29] **SWPD4-XX**=Wavelinx Wireless Sensor, 7' – 15' Mounting Height [29, 30, 31, 32] **SWPD5-XX**=Wavelinx Wireless Sensor, 15' – 40' Mounting Height [29, 30, 31, 32]

NOTES:

1. DesignLight Consortium® Qualified. Refer to www.designlights.org, Qualified Products List under Family Models for details.
2. Two light squares with CBP options limited to 25°C. Not available in combination with sensor options at 1200mA.
3. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose drive current A; supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.
4. Not available with HA option.
5. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
6. Require the use of a step down transformer. Not available in combination with sensor options at 1200mA.
7. 480V must use Wye system only. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
8. Reserved.
9. Cannot be used with other control options.
10. Low voltage control leads extended 18" from fixture.
11. Not available in 1200mA. When used with CBP or HA options, only available with single light square.
12. Not available in 1200mA, UPL or CBP options. Available with single light square.
13. Not available with SL2, SL3, SL4, HA, CBP, PR or PR7 options.
14. Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated. Control option limited to BPC.
15. Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
16. Requires the use of BPC photocontrol or the PR7 or PR photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
17. The FSIR-100 configuration tool is required to adjust parameters such as high and low modes, sensitivity, time delay and cutoff. Consult your lighting representative at Cooper Lighting Solutions for more information.
18. Replace LXX with L08 (<8' mounting), L20 (8'-20' mounting) or L40W (21'-40' mounting.)
19. Includes integral photosensor.
20. Enlighted wireless sensors are factory installed requiring network components in appropriate quantities.
21. White sensor shipped on all housing color options.
22. Not available with HSS or GRS options.
23. Not for use with 5NQ, 5MQ, 5WQ or RW optics. The light square trim plate is painted black when the HSS option is selected.
24. CE is not available with the 1200, DALI, LWR, MS, MS/DIM, BPC, PR or PR7 options. Available in 120-277V only.
25. One required for each light square.
26. Requires PR7.
27. Not for use with T4FT, T4W or SL4 optics.
29. Cannot be used in conjunction with additional photocontrol or other controls systems (BPC, PR, PR7, MS, LWR).
30. WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
31. Requires ZW or ZD receptacle.
32. Replace XX with sensor color (WH, BZ, or BK).
33. Specify 120V or 277V.
34. Smart device with mobile application required to change system defaults. See controls section for details.

Product Specifications

Construction

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

Optics

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

Electrical

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

Mounting

- Gasketed and zinc plated rigid steel mounting attachment
- "Hook-N-Lock" mechanism for easy installation

Finish

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

Warranty

- Five-year warranty

MERU Series

LED GENERAL & EMERGENCY LIGHTING

PROJECT:
FIXTURE TYPE: WP3
LOCATION:
CONTACT/PHONE:

CAT# - MERU-LED-AC-**

PRODUCT DESCRIPTION

The MERU Series is an architectural, low-profile outdoor light, offering "normally On" AC and emergency lighting with powerful LED illumination. The housing is fully sealed and gasketed, and has an IP65 rating. Designed for wall mounting with universal K/O pattern in back-plate for easy installation to most standard size junction boxes. Includes a single ½" NPT conduit entry in the top, center of the housing. Illumination provided by 8 high power LEDs which achieve 1,600 lumens in AC and 600 lumens in emergency. LED color at 4000K.

PRODUCT SPECIFICATIONS

CONSTRUCTION

Die cast aluminum housing with superior heat sink • Scratch resistant Polyester powder coat finish • UV resistant polycarbonate lens • Snap-fit housing and mounting plate are held together by four stainless steel clips • Universal mounting pattern molded into the back plate • 1/2" threaded top access for surface conduit installation • Silicone rubber seal with hollow center, shape adaptive design protects the electrical components • Junction box neoprene seal is attached to the back plate for a weather proof installation • Dark Bronze or White textured finish.

ELECTRICAL

Dual voltage 120/277VAC 60Hz input • Solid state charging and switching • Battery low voltage disconnect • AC power indicator and test switch at the bottom of the unit • Standard with Self Diagnostics to monitor proper operation.

LAMPS

Supplied with eight (8) LG SMD 4000K LED'S • L70 > 72,000hours • 17 Watts total (32 Watts with IH option) • 1600 Lumens in AC mode, 600 Lumens in Emergency mode • Full cut-off optics for Dark Sky compliance

BATTERY

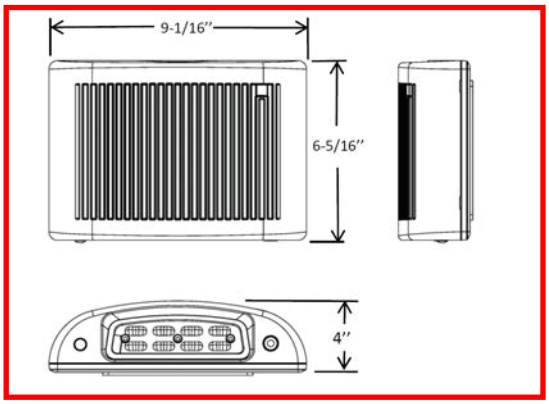
Maintenance-free, long-life rechargeable NiCad battery will operate fixture for a minimum of 90 minutes in the event of a power outage • 24 hour recharge after 90 minute discharge.

CODE COMPLIANCE

UL924 • Listed for wet location applications (0˚C-50˚C) • Optional "IH" cold weather package for (-40˚C-50˚C) • IP65 Rated • NFPA 101 Life Safety Code compliant • NEC and OSHA compliant • DLC Listed • RoHS Compliant

WARRANTY

5-year warranty. Product specifications subject to change without notice.



ACEM Model (NiCad Battery Backup)

Integral photocell: Unit operates as a dusk to dawn luminaire and in the event of a power failure as an emergency light.
Remote Switched: The integral photocell can be defeated to allow remote switching for normal operation. In the event of a power failure unit operates as an emergency light.

INSTALLATION

MOUNTING

Suitable for indoor or outdoor wall mounting on junction box, or with surface conduit using the supplied 1/2" threaded top access • Mounting plate has molded universal mounting pattern for simple mounting over junction box.

MERU-LED-AC-**

ORDERING INFORMATION

model	operation mode	housing color	options
MERU-LED	ACEM = General & Emergency Lighting	DB = Dark Bronze	*Self-Diagnostics & Photocell (Included Standard)*
	→ AC = General Lighting	WH = White	IH = Internal Heater
		BK = Black	PIR = Passive Infra-Red Motion Sensor
Ordering Example: MERU-ACEM-DB		NK = Nickel	

Mule Lighting , Inc. 46 Baker Street Providence, RI 02905 800 556-7690 P 401 941-2929 F www.mulelighting.com

Project		**Catalog #**	AXCS2A	**Type**	WP4
Prepared by		**Notes**		**Date**	

Lumark

Axcent

Wall Mount Luminaire

Typical Applications

Wall • Surface • Inverted • Floodlighting • Pathway

Interactive Menu

Product Certifications

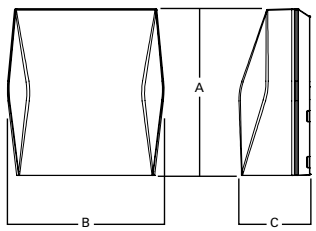
Product Features

Quick Facts

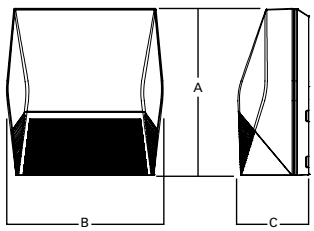
- Available in 14W - 123W (1,800 - 17,000 lumens) models
- Full cutoff and refractive lens models available
- Energy and maintenance savings up to 95% compared to HID
- Energy efficient illumination results in up to 144 LPW
- Replaces 70W up to 450W HID equivalents

Dimensional Details

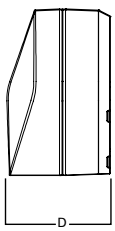
Full Cutoff



Refractive Lens



Deep Back Housing



Dimensional Data

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

Ordering Information

SAMPLE NUMBER: **AXCS1A-AP-347V**

Model Series [1]	LED Color Temperature	Color	Options (Add as Suffix)
Full Cutoff **AXCS1A**=14W **AXCS2A**=21W **AXCS3A**=27W **AXCS4A**=44W **AXCS5A**=52W **AXCL6A**=56W **AXCL8A**=72W **AXCL10A**=102W **AXCL12A**=123W **Refractive Lens** **AXCS1ARL**=14W **AXCS2ARL**=21W **AXCS3ARL**=27W **AXCS4ARL**=44W **AXCS5ARL**=52W **AXCL6ARL**=56W **AXCL8ARL**=72W **AXCL10ARL**=102W **AXCL12ARL**=123W	**[Blank]**=4000K, Neutral **C**=5000K, Cool **W**=3000K, Warm	**[Blank]**=Carbon Bronze (Standard) **WT**=Summit White **BK**=Black **AP**=Grey **GM**=Graphite Metallic **DP**=Dark Platinum	**347V**=347V [2] **480V**=480V [2] **PC1**=Photocontrol 120V [3, 4, 5] **PC2**=Photocontrol 208-277V, 347V, 480V [4, 5, 6] **PC**=Photocontrol 120-277V, 347V, 480V [4, 7, 8] **KKIT**=Knuckle Floodlight Mount [7] **TRNKIT**=Trunnion Floodlight Mount **SFKIT**=Slipfitter Floodlight Mount **PMAKIT**=Pole Mount Arm **ZW**=WaveLinx-enabled 4-PIN Twistlock Receptacle [4, 9] **ZW-SWPD4XX**=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [4, 9, 10, 11] **ZW-SWPD5XX**=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [4, 9, 10, 11] **LWR-LW**=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [4, 9, 12] **LWR-LN**=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [4, 9, 12] **MSP/DIM-L12**=Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP/DIM-L30**=Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height [4, 9, 13] **MSP-L12**=Integrated Sensor for ON/OFF Operation, 8' - 12' Mounting Height [4, 9, 13] **MSP-L30**=Integrated Sensor for ON/OFF Operation, 12' - 30' Mounting Height [4, 9, 13] **CBP**=Cold Weather Battery Pack [3, 14, 15, 16, 17, 18] **CBP-CEC**=Cold Weather Battery Pack, CEC compliant [3, 14, 15, 16, 17, 18] **10K**=10kV/10kA Surge Protection **HA**=50°C High Ambient [15, 19] **GRF**=Glare Reducing Lens [20] **AHD145**=After Hours Dim, 5 Hours [5, 21] **AHD245**=After Hours Dim, 6 Hours [5, 21] **AHD255**=After Hours Dim, 7 Hours [5, 21] **AHD355**=After Hours Dim, 8 Hours [5, 21]

Accessories (Order Separately) [22]

VS/AXCS-XX=Vandal Shield Axcent Small [7, 23]
VS/AXCS-MS=Vandal Shield Axcent Small (With Motion Sensor) [7, 23]
WG/AXCS=Wire Guard Axcent Small [7]
WG/AXCS-MS=Wire Guard Axcent Small (With Motion Sensor) [7]
VS/AXCL-XX=Vandal Shield Axcent Large [5, 23]
VS/AXCL-MS=Vandal Shield Axcent (With Motion Sensor) [5, 23]
WG/AXCL=Wire Guard Axcent Large [5]
WG/AXCL-MS=Wire Guard Axcent (With Motion Sensor) [5]
BB/AXC=Axcent Lumen Select Back Box [24]
BB/AXC-PC=Axcent Lumen Select Back Box with PC [24]
BB/AXC-WT=Axcent Lumen Select Back Box, White [24]
BB/AXC-WT-PC=Axcent Lumen Select Back Box with PC, White [24]

KKIT/AXCS-XX=Knuckle and Visor Floodlight Kit (For Axcent Small) [7]
SFKIT/AXCS-XX=Slipfitter Floodlight Kit (For Axcent Small) [7]
TRNKIT/AXCS-XX=Trunnion and Visor Floodlight Kit (For Axcent Small) [7]
TRNKIT-XX=Trunnion Floodlight Kit (For Axcent Large) [5]
SFKIT-XX=Slipfitter Floodlight Kit (For Axcent Large) [5]
PMAKIT-XX=Pole Mount Kit
ISHH-01=Integrated Sensor Programming Remote [25]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180° Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
SWPD4-XX=WaveLinx Wireless Sensor, 7' – 15' Mounting Height [10, 11, 26]
SWPD5-XX=WaveLinx Wireless Sensor, 15' – 40' Mounting Height [10, 11, 26]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Transformer used only when ordered with motion sensor or AXCS1 through AXCS5 or AXCL6 fixture wattages.
3. Not available in 347 or 480 VAC.
4. Button photocontrol and any motion sensor (MSP, ZW, or LWR) not offered together.
5. Only available on AXCL6-AXCL12 models.
6. Used with 277, 347, and 480 VAC options.
7. Only available on AXCS1-AXCS5 models.
8. This configuration may contain materials that are not RoHS compliant. Contact your lighting representative for more information.
9. Uses deep back housing.
10. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
11. Replace XX with sensor color (WH, BZ, or BK).
12. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for application information.
13. The ISHH-01 accessory is required to adjust parameters.
14. Ambient operating temperature -20°C to 25°C for AXCL6 through AXCL10. Ambient operating temperature -20°C to 30°C on AXCS4 models. Ambient operating temperature -20°C to 40°C on AXCS1 through AXCS3 models.
15. Not available with AXCS5 or AXCL12 models.
16. Uses deep back housing for AXCS1, AXCLS2, AXCS3, and AXCS4 models.
17. Not to be mounted in upwards / inverted orientation. Downlight wall mount only for AXCS1 through AXCS4.
18. In AXCS1, AXCS2, AXCS3, and AXCS4 models, CBP cannot be used with any sensor option (PC, MSP, ZW, or LWR).
19. Can not be ordered with CBP or PC options.
20. Use dedicated IES files on product website for lumen values and distributions.
21. Requires the use of PC1 or PC2 button photocontrol. See After Hours Dim supplemental guide for additional information.
22. Replace XX with color designation.
23. For use with full cutoff lens configurations only.
24. Lumen Select functionality not available in conjunction with any motion sensor option (MSP, ZW, or LWR). Photocontrol back box not available with any photocontrol or motion sensor options (PC, MSP, ZW, or LWR).
25. This tool enables adjustment to parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult you lighting representative for more information.
26. Requires 4-PIN twistlock receptacle (ZW) option.

Stock Ordering Information

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

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

COSMO 18 WALL SCONCE

TECH LIGHTING

Elegant, contemporary LED outdoor wall sconce features a rectilinear white acrylic shade with metal base. Cosmo creates soft up light to highlight structural features on an architectural facade as well as creating subtle ambient wayfinding. Available in two sizes and two finishes.

Outstanding protection against the elements:

- Powder coat finishes
- Stainless Steel mounting hardware
- Impact-resistant, UV stabilized white acrylic lensing

SPECIFICATIONS

DELIVERED LUMENS	1994
WATTS	29.2
VOLTAGE	Universal 120V-277V, with integral transient 2.5kV surge protection (driver)
DIMMING	0-10, ELV
LIGHT DISTRIBUTION	Symmetric
MOUNTING OPTIONS	Wall
PERFORMANCE OPTIONS	In-Line Fuse / Surge Protector
CCT	3000K or 4000K
CRI	80+
COLOR BINNING	3 Step
BUG RATING	B0-U4-G2
DARK SKY	Non-Compliant
WET LISTED	IP65
GENERAL LISTING	ETL
CALIFORNIA TITLE 24	Can be used to comply with CEC 2019 Title 24 Part 6 for outdoor use. Registration with CEC Appliance Database not required.
START TEMP	-30°C
FIELD SERVICEABLE LED	Yes
CONSTRUCTION	Aluminum
HARDWARE	Stainless Steel
FINISH	Powder Coat
LED LIFETIME	L70; >60,000 Hours
WARRANTY*	5 Years
WEIGHT	5 lbs.

* Visit techlighting.com for specific warranty limitations and details.

COSMO 18
shown in bronze

COSMO 18
shown in charcoal

ORDERING INFORMATION

PRODUCT	CRI/CCT	LENGTH	COLOR	FINISH	VOLTAGE	DISTRIBUTION	OPTIONS
700OWCOS	**830** 80 CRI, 3000K **840** 80 CRI, 4000K	**18** 18"	**Y** WHITE ACRYLIC	**Z** BRONZE **H** CHARCOAL	**UNV** 120V–277V	**S** SYMMETRIC	NONE **LF** IN-LINE FUSE **SP** SURGE PROTECTION **LFSP** IN-LINE FUSE & SURGE PROTECTION