IV. D.

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

Architectural Review Board Staff Report

Project Type: Amended Site Plan

Meeting Date: September 13, 2018

From: Cassie Harashe, Planner

Location: 114 N. Eatherton Road

Description: **Windsor Crossing Community Church (114 N. Eatherton Road)**: The 10th Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 6.183 acre parcel of land zoned "NU" Non-Urban located on the east side of Eatherton Road, south of Wardenburg Road.

PROPOSAL SUMMARY

The request is for a an Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and an Architect's Statement of Design for an approximately 7,300 square foot office addition. The proposed building is to be constructed as a tilt-up concrete building system accented with glass windows. The subject site is zoned "NU" Non-Urban.

Figure 1: Aerial Photo

HISTORY OF SUBJECT SITE

The subject site was zoned "NU" Non-Urban by St. Louis County prior to the incorporation of the City of Chesterfield. The original site plan for a 32,183 square foot church for Windsor Crossing Community Church was approved in 2002. While there have been several amendments since that time. The most notable ones were for additions in 2005, 2007 and 2012 which brought the building to its current size of 96,153 square feet. The building contains a large sanctuary space, offices, gathering spaces, and spaces for ministries to meet including children and youth.

STAFF ANALYSIS

General Requirements for Site Design:

A. Site Relationships

The site currently has farmland and agricultural uses to the north, east, and west. To the south are railroad tracks and the Wildhorse Creek Forest and Estates at Wildhorse Canyon subdivisions. The proposed addition will be located on the north side of the building.

B. Circulation System and Access

This site is currently developed with primary access being from an access easement from N. Eatherton Road. No changes to the vehicular circulation are proposed with this addition. The applicant is proposing two pedestrian pathways that lead from the doors to existing pedestrian pathways.

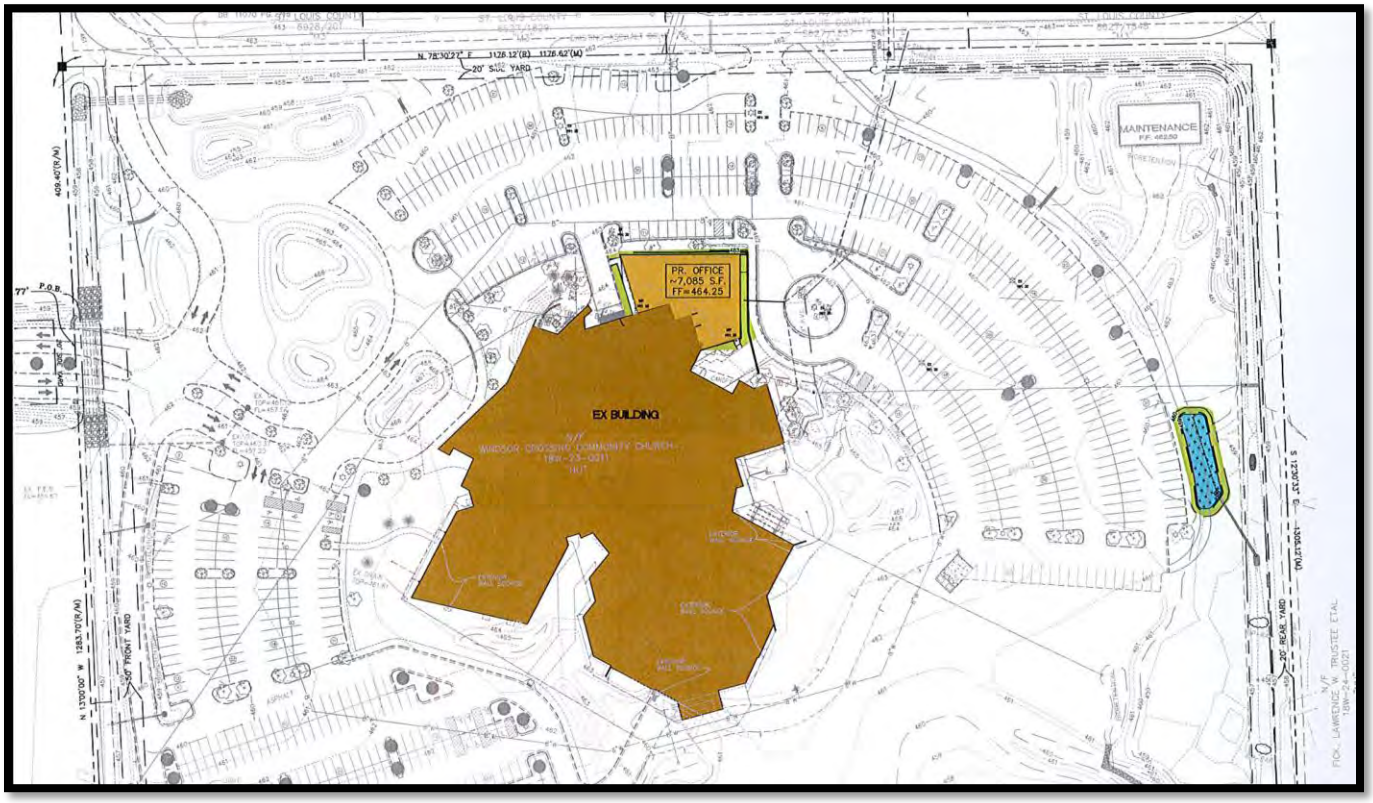


Figure 2: Color Site Plan

C. Topography & Retaining Walls

The subject site is relatively flat and the applicant does not propose significant grade alterations or retaining walls.

General Requirements for Building Design:

A. Scale, Design, Materials and Color

The existing building has a variety of heights and shapes. The proposed addition has a sloped wall that varies in height between 11'8" and 20'. These heights allow the addition to blend with the existing building and maintain the existing silhouette, especially on the east elevation as seen in Figure 3. The new addition is proposed to be a tilt-up panel painted in a tan color that complements the existing color palette.

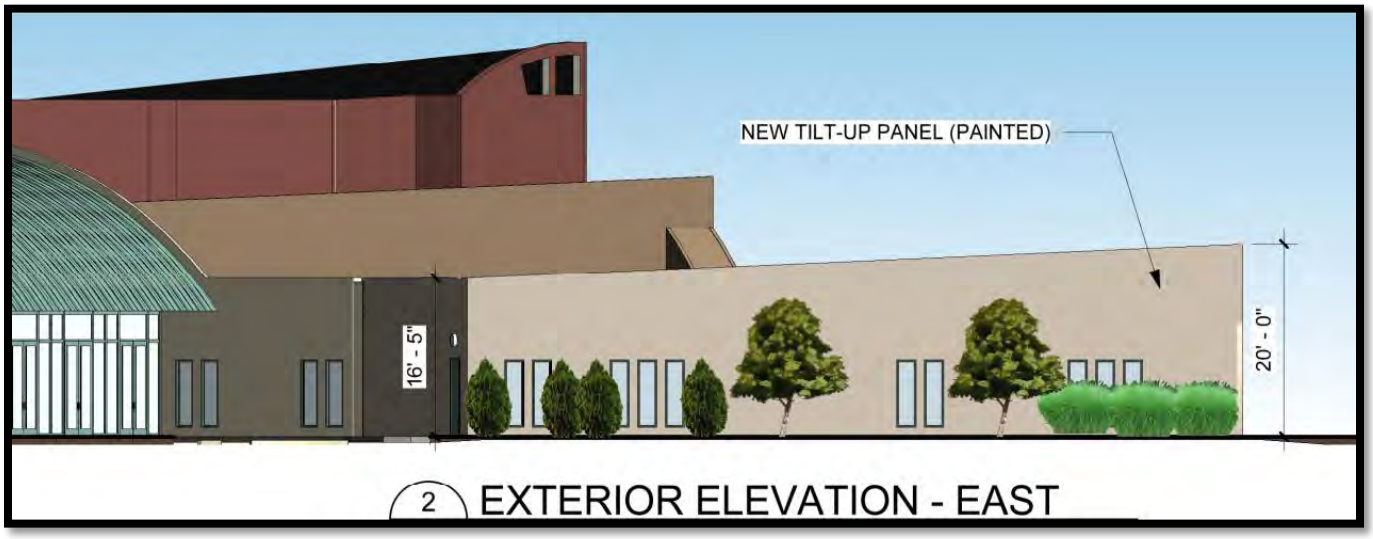


Figure 3: Architectural Elevations

B. Landscape Design and Screening

There are currently existing trees in the area of the proposed addition. The applicant is proposing to remove two Ash trees, two Crabapple trees, two Maple trees, one White Pine tree and several shrubs. They are proposing to replace these with Maples, River Birch, Serviceberry, Arborvites and a variety of shrubs and grasses spaced in a pattern compatible with the proposed windows.

C. Lighting

There are two over the door light fixtures planned with this addition. They are proposing a utilitarian wall pack which is fully shielded and has flat lensed cut-off optics. No other changes to the lighting are proposed.

DEPARTMENTAL INPUT

Staff has reviewed the Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design. Be advised that this project is still going through development review by City Staff and will not be approved until all outstanding items have been addressed.

Figure 4: Color Rendering

MOTION

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

1) "I move to forward the 10th Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Windsor Crossing Community Church, as presented, with a recommendation for approval (or denial) to Staff."

2) "I move to forward the 10th Amended Site Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Windsor Crossing Community Church, to Staff with the following recommendations…"

Attachments

1. Architectural Review Packet Submittal

THE CROSSING - CHESTERFIELD

Office Expansion (Phase IV)

Architect's Statement of Design

Windsor Crossing Community Church ("The Crossing") in Chesterfield serves as the "main" campus, where most of the staff operates. The Crossing is an expanding community of people (with a new location on Union Rd. near Grant's Trail) and now a need to expand their "main" Chesterfield campus once again.

The proposed expansion at The Crossing in Chesterfield (approximately 7,300 SF) includes a new office addition. In addition to the expansion of the building, a small portion of the office space will be renovated as well.

General Requirements for Site Design

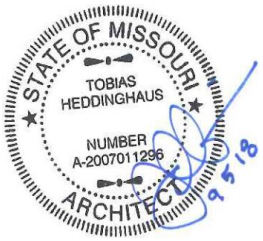
Site Relationships:
The color site plan shows how the new expansion mimics the original design of the building with the various shapes, forms and irregular proportions of spaces which ultimately balance the design and provides a seamless transition between phases of the project.

The proposed expansion is on the side of the building and has limited exposure to the neighboring developments as the building is pulled back from the street and the remaining surroundings include farmland and the Spirit of St. Louis Airport.

Circulation System and Access:
Existing accommodations for bicycle, pedestrian and public transportation will remain. Parking is existing and located around the majority of the building, with three building entrances.

Topography:
The topography of the site is level with existing landscaped berms to create variety around the site and help with the scale of the building. Existing landscaping will remain around the building and be added upon in areas where the building expands.

Retaining Walls:
There will be no new retaining walls.



General Requirements for Building Design

Scale:
The existing unique architecture of this building provides variation, interesting forms and sculptures. The new office expansion continues the variation of heights, with this portion at a lower building height, and will blend perfectly with the existing building.

Design:
The building elevations illustrate how the proposed expansion will blend with the existing structure where the same materials (tilt-up concrete walls) and colors will be utilized.

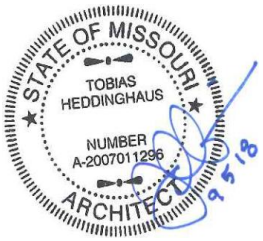
Materials and Colors:
The new addition will be tilt-up concrete walls to match the existing building construction. The building elevations show how the colors will match the existing building colors and how each piece of the structure is highlighted using the current color palette.

Landscape Design and Screening:
The landscape plan incorporates all of the design elements from the first three phases of this project: Autumn Blaze Maple for the canopy trees, upright evergreen accent trees, and drifts of native grasses. The area near the east entrance will receive nearly the same landscape as what is being removed for construction – River Birch, Spirea, and Maiden Grass. All lawn areas will receive sod.

No new rooftop equipment shall be visible from the ground level. Parapets will be used to discretely hide any new equipment as needed.

Signage:
There will be no new signage as part of the addition.

Lighting:
There will be a wall sconce above the two new exit doors. The elevations indicate location; also see the photometric drawing and cut sheet for more information. The photometric includes existing parking lot fixtures near the area of work only.



THE CROSSING AT CHESTERFIELD - OFFICE EXP.

114 North Eatherton Road
Chesterfield, Missouri 63005

SHEET INDEX

STATE OF MISSOURI
TOBIAS HEDDINGHAUS
NUMBER A-2007011296
ARCHITECT
9 5 18

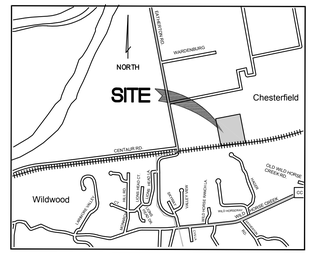
08/20/18

gray

00

WINDSOR CROSSING COMMUNITY CHURCH
TENTH AMENDED SITE PLAN
A PARCEL OF LAND BEING PART OF U.S. SURVEY 133 AND 362
TOWNSHIP 45 NORTH, RANGE 3 EAST OF THE FIFTH PRINCIPAL MERIDIAN
CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X" (AREAS OF 500-YEAR FLOOD; AREAS OF 100-YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 100-YEAR FLOOD) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS PER MAP NO. 29189C0145 K WITH AN EFFECTIVE MAP DATE OF FEBRUARY 4, 2015. (APPROXIMATE 100 YR. EL. 460.7 PER CHESTERFIELD MASTER PLAN MODEL)



LOCATION MAP

LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TREES
- EXISTING BUILDING
- EXISTING CONTOUR
- SPOT ELEVATION
- EXISTING UTILITIES
- FOUND 1/2" IRON PIPE
- SET IRON PIPE
- FOUND CROSS
- FOUND STONE
- FIRE HYDRANT
- LIGHT STANDARD
- SIGN
- GUY WIRE
- POWER POLE
- WATER VALVE
- DENOTES RECORD INFORMATION ( )

PREPARED FOR:
WINDSOR CROSSING COMMUNITY CHURCH
114 N. EATHERTON ROAD
CHESTERFIELD, MO 63005
Ph: (636)532-1212
CONTACT: LAURI SHARP

GRAPHIC SCALE
50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

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.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS, RECORDS AND INFORMATION, AND THEREFORE DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, NUMBER, OR LOCATION OF THESE FACILITIES, STRUCTURES AND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY GRADING, EXCAVATION, OR CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY WITH COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

PREPARED BY:
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

TENTH AMENDED SITE PLAN:
WINDSOR CROSSING COMMUNITY CHURCH
CHESTERFIELD, MISSOURI

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
7/18

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

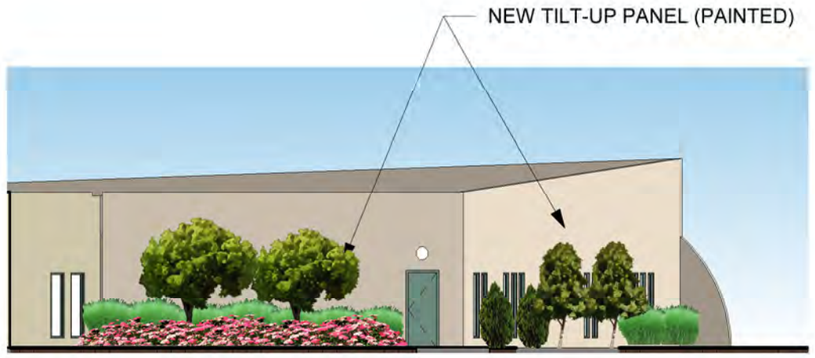
REVISIONS:

1	08-16-18	CITY COMMENTS
2	09-04-18	ARB SUBMITTAL

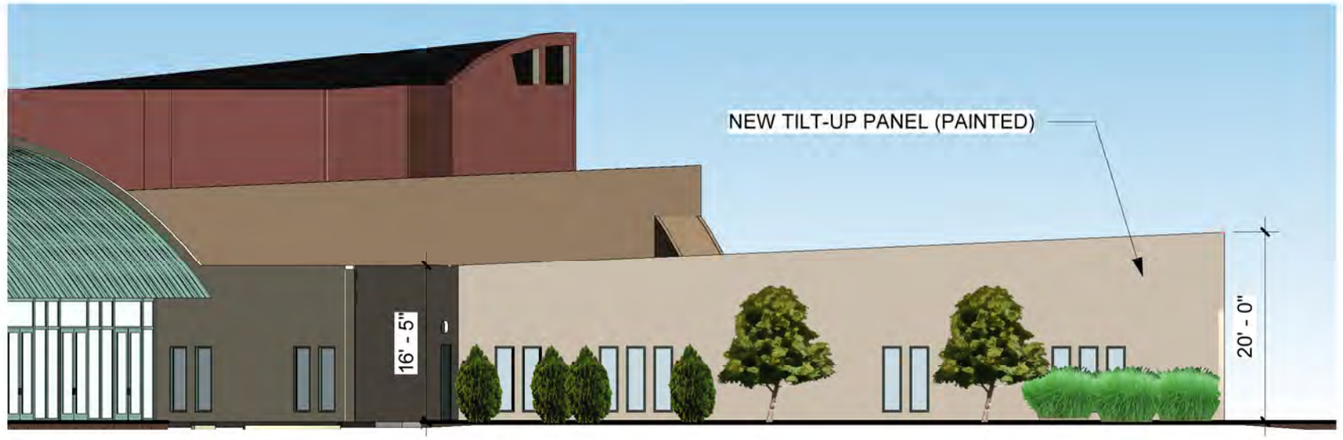
DRAWN BY: A.L.W.	CHECKED BY: G.M.S.
DATE: 06/29/2018	JOB NO. 218-6246
M.S.D. P. # --	BASE MAP # 18-W
S.L.C. H&T #: --	H&T S.U.P. #: --
S.L.C. PAC #: --	M.D.N.R. #: MO-

SHEET TITLE:
COLOR SITE PLAN

SHEET NO.:
01

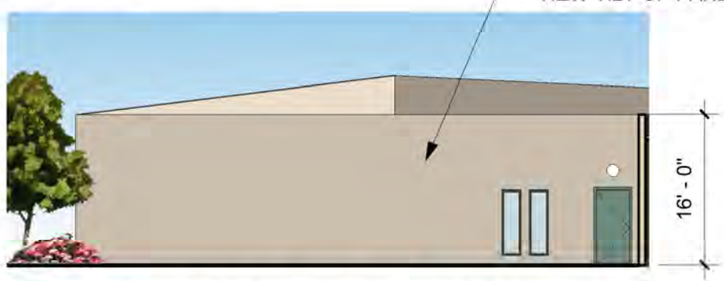


1 / A1 EXTERIOR ELEVATION - SOUTH
1/16" = 1'-0"



2 / A1 EXTERIOR ELEVATION - EAST
1/16" = 1'-0"

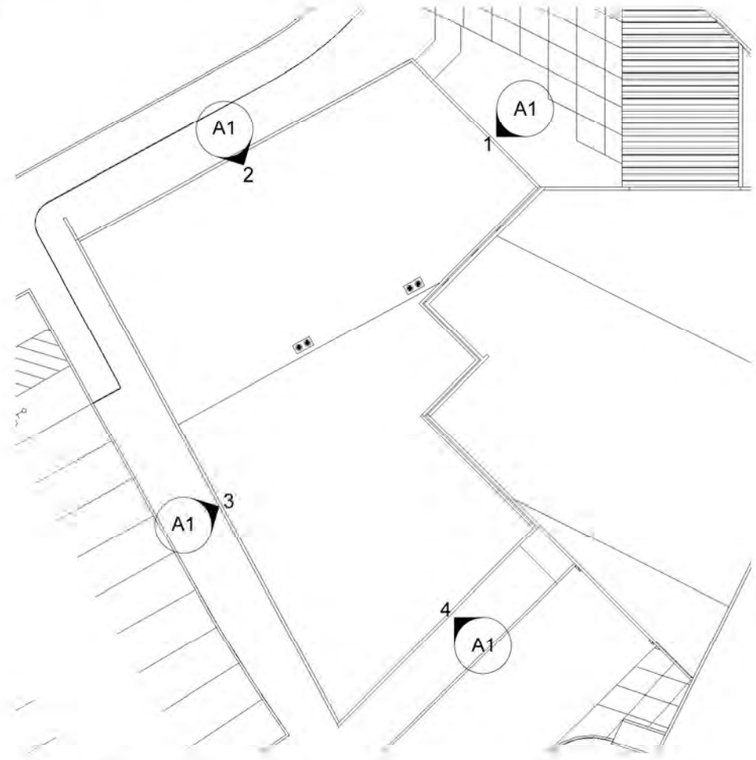
3 / A1 EXTERIOR ELEVATION - NORTH
1/16" = 1'-0"



4 / A1 EXTERIOR ELEVATION - WEST
1/16" = 1'-0"

ALL FINISHES TO MATCH EXISTING -
(TILT-UP PANELS, ALUM. FRAMES/ GLASS, ETC.)

STATE OF MISSOURI
TOBIAS HEDDINGHAUS
NUMBER A-2007011296
ARCHITECT
9.5.18



KEY PLAN
1/32" = 1'-0"

08/20/18

THE CROSSING AT CHESTERFIELD - OFFICE EXP.

EXTERIOR ELEVATIONS

gray | A1

STATE OF MISSOURI
TOBIAS HEDDINGHAUS
NUMBER A-2007011296
ARCHITECT
9/5/18

08/20/18

THE CROSSING AT CHESTERFIELD - OFFICE EXP.

EXTERIOR RENDERED VIEW

gray

A2

STATE OF MISSOURI
TOBIAS HEDDINGHAUS
NUMBER A-2007011296
ARCHITECT
9/5/18

08/20/18

THE CROSSING AT CHESTERFIELD - OFFICE EXP.

EXISTING BUILDING PHOTOS

gray

A3

STATE OF MISSOURI
TOBIAS HEDDINGHAUS
NUMBER A-2007011296
ARCHITECT
9/5/18

08/20/18

THE CROSSING AT CHESTERFIELD - OFFICE EXP.

PHOTOS OF ADJACENT SITES

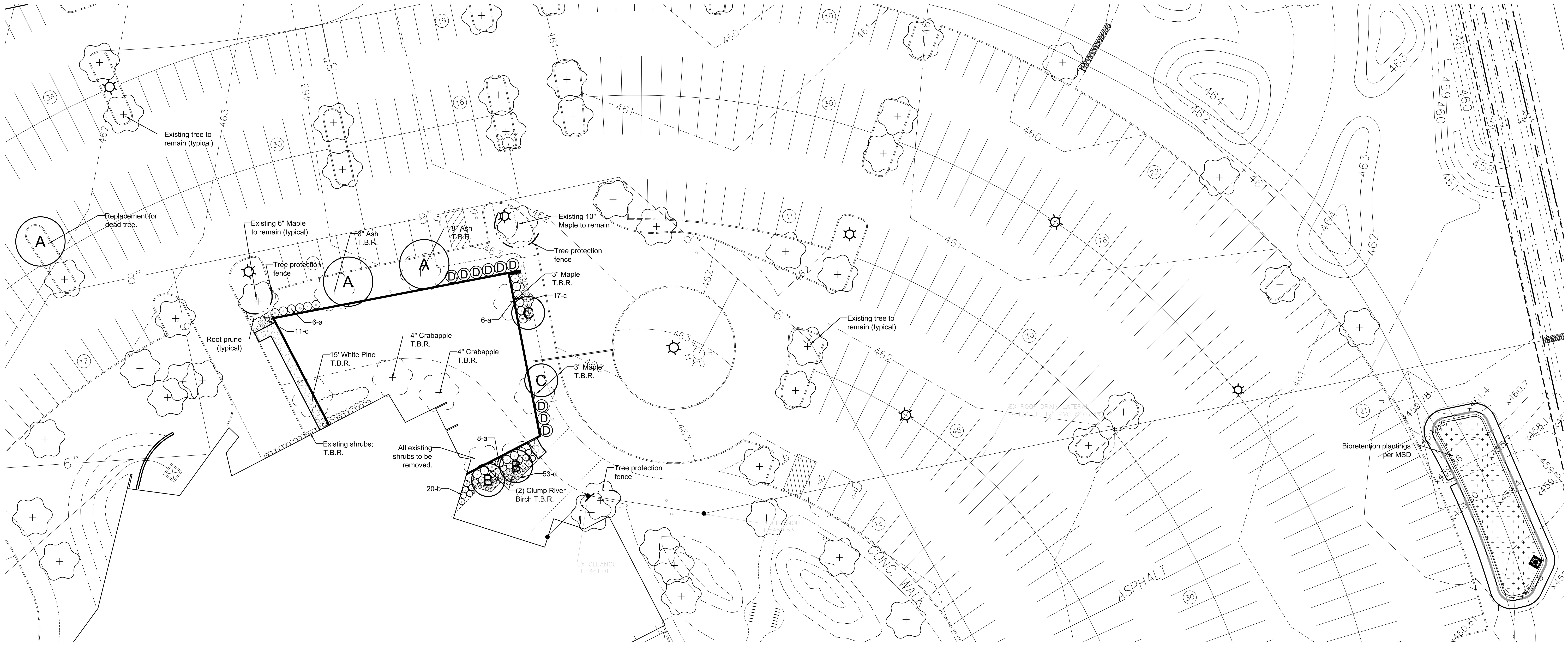
gray

A4

Jerald Saunders - Landscape Architect
MO License # LA-007

Consultants:

10th Amended Site Development Plan
WINDSOR CROSSING COMMUNITY CHURCH
CHESTERFIELD, MISSOURI



Landscape Plan
SCALE 1"=20'

0 20 40 80

Revisions:

Date	Description	No.
8-15-18	City Comments	1

PLANTING SCHEDULE

SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
A	3	Acer × freemanii 'Jeffersred' Autumn Blaze	Autumn Blaze Maple	2.5" cal.	B&B
B	2	Betula nigra	River Birch	2.5" cal.	clump
C	2	Amalancheir arborea	Serviceberry	2.5" cal.	B&B
D	9	Platycladus orientalis	Arborvitae	5-6'	B&B
a	20	Miscanthus sinensis 'Gracillimus'	Maiden Grass	5 gal.	
b	20	Spiraea x bumalda 'Anthony Waterer'	A.W. Spirea	24-30"	
c	28	Pennisetum alopecuroides 'Hameln'	Dwarf Fountain Grass	3 gal.	
d	53	Liriope muscari 'Big Blue'	Big Blue Liriope	1 gal.	

TREE PROTECTION NOTES:

1) Pre-construction meeting to be held on-site to include a presentation of tree protection measures to operators; construction supervisors; developer's representative; and city zoning inspector.

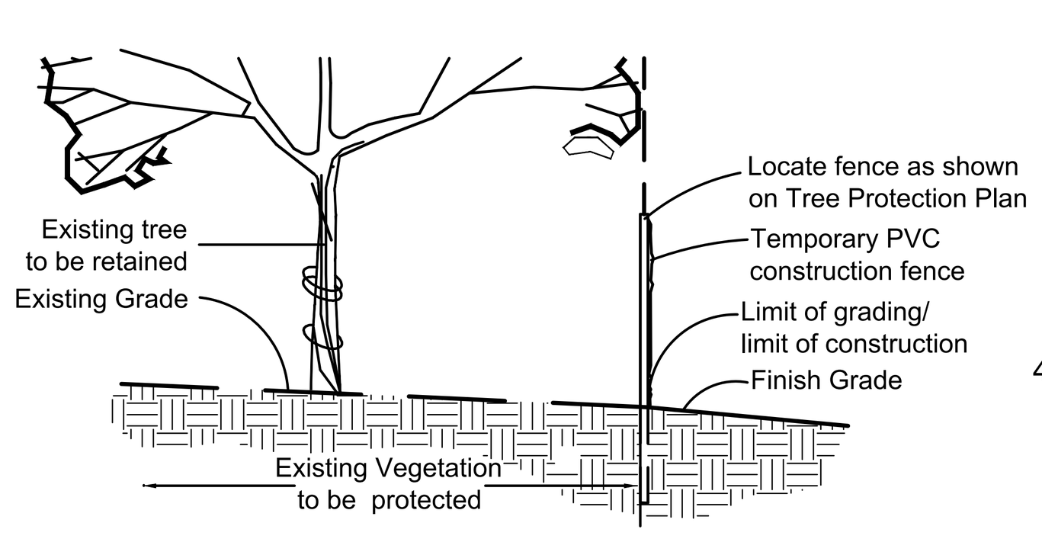
2) Clearing Limits to be rough staked in order to facilitate location for installation of protection fencing. No early maintenance schedule is required.

3) No clearing or grading shall begin in areas where the treatment and preservation measures have not been completed, including the installation of tree protection fencing as shown on the plan. Where necessary, Contractor may perform minor tree clearing prior to installing silt fencing and tree protection fencing provided they maintain tree protection area.

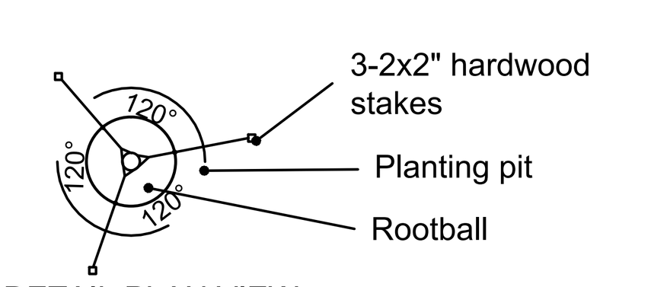
4) Tree Protection Fencing shall be 4-foot high temporary plastic construction fence. No equipment traffic/parking, concrete washout, material storage or other such construction activity shall be permitted to penetrate the protection fencing or disrupt the Protected Woodland Area except for the removal of dead or invasive plant material. All ground plane in planting areas shall be mulched with hardwood bark mulch. Tree Protection Signage will be placed along the Protection Fencing as shown as the dashed line on the plan.

5) Tree protection measures to be maintained throughout construction sequence.

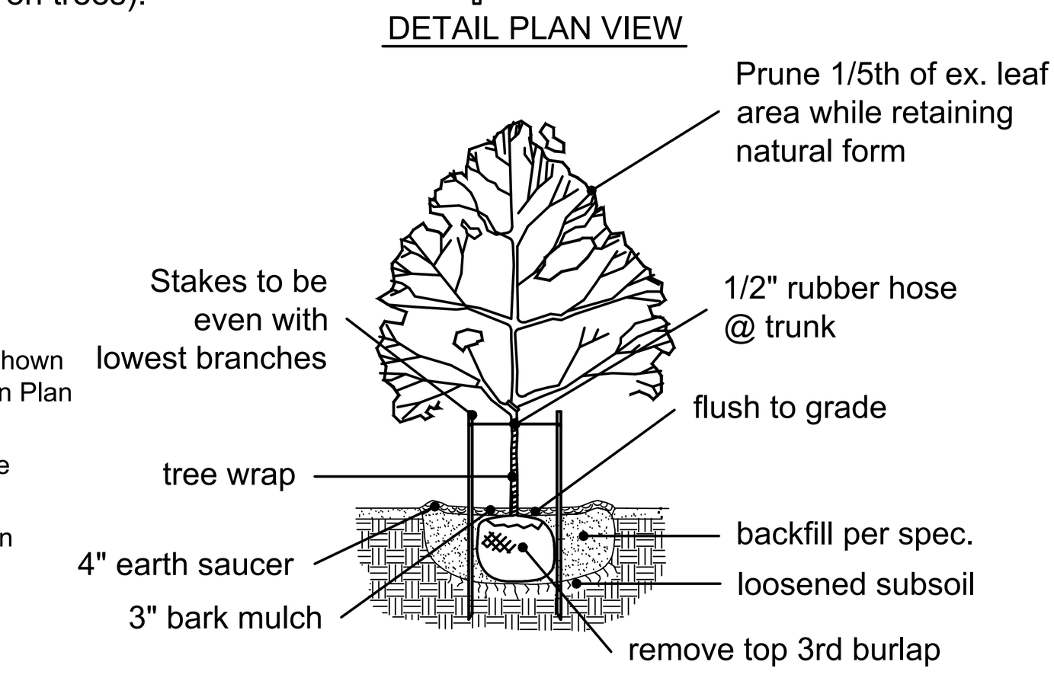
TREE PROTECTION ACTION KEY SEQUENCE:
1) Survey limit of disturbance.
2) Perform Root Pruning.
3) Install tree protection fencing.
4) Post tree protection signage on fence (No signs will be posted on trees).
5) Maintain tree protection area as an off-limits zone.



TREE PROTECTION DETAIL



DETAIL PLAN VIEW



CANOPY TREE PLANTING

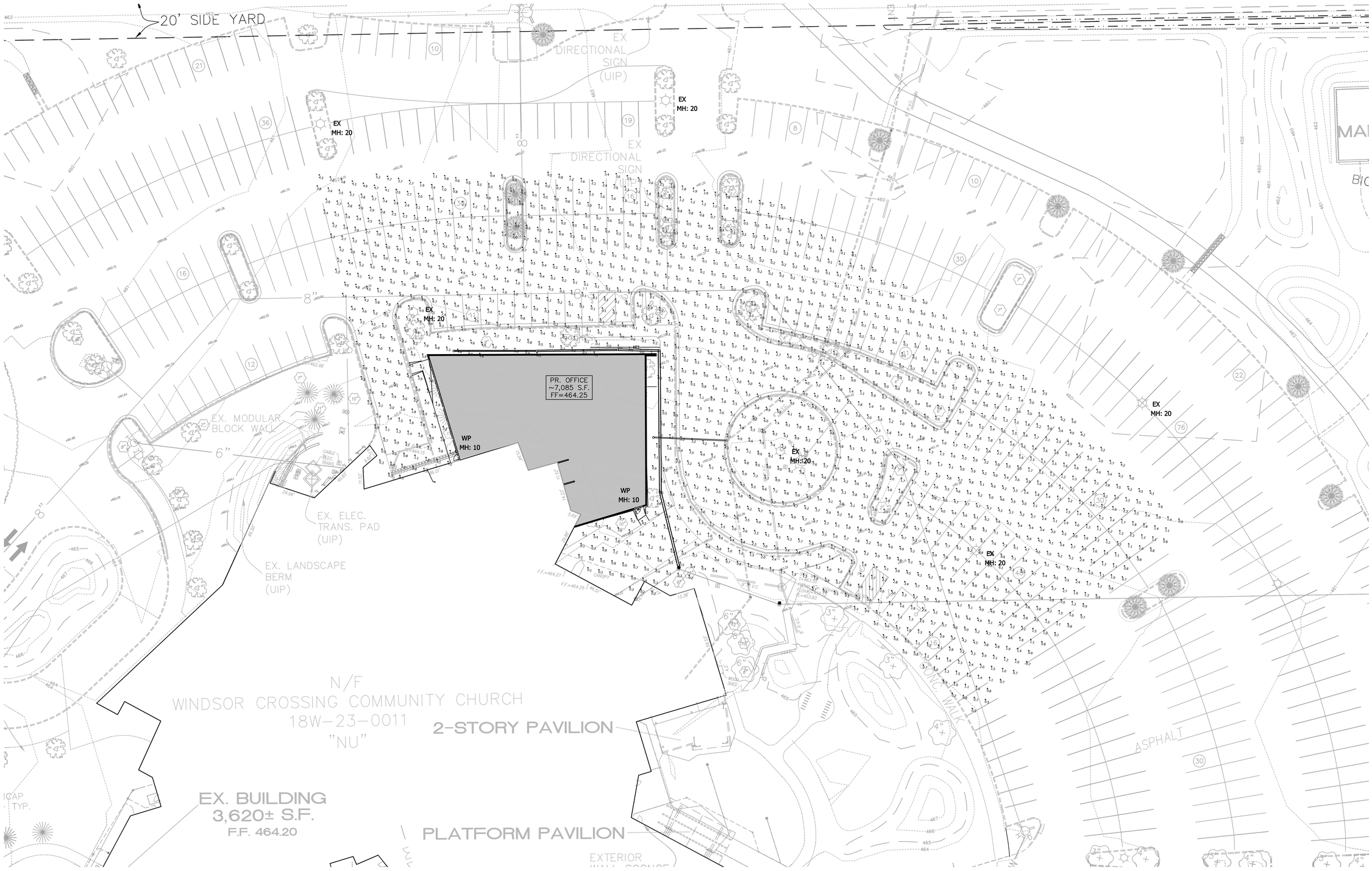
Drawn: KP
Checked: BR

loomisAssociates
landscapeArchitects|planners
707 Spirit 40 Park Drive, Suite 135
Chesterfield, Missouri 63005-1194
(636) 519-8668 Fax: (636) 519-0797
e-mail: lainfo@loomis-associates.com
Loomis Associates Inc.
Missouri State Certificate of Authority #: LAC #000019

Sheet Title: Landscape Plan & Tree Protection Plan

Sheet No: L-1

Date: 6/27/18
Job #: 660.062



LIGHT LEVEL CALCULATED ON THE GROUND

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
GRID	Illuminance	Fc	2.27	9.2	0.0	N.A.	N.A.

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	LLF	Description
	2	WP	SINGLE	33.7	67.4	1.000	ISS-AF-600-LED-E1-SL4
	6	EX	BACK-BACK	350	4200	1.000	GSM-AM-320-MP-MT-AS-FG

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 CHANGE REQUEST AND RECALCULATION.

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.

PREPARED FOR:
WINDSOR CROSSING COMMUNITY CHURCH
114 N. EATHERTON ROAD
CHESTERFIELD, MO 63005
Ph: (636)532-1212
CONTACT: LAURI SHARP

PREPARED BY:
STOCK & ASSOCIATES Consulting Engineers, Inc.
257 Chesterfield Business Parkway
St. Louis, MO 63005 PH: (636) 530-9100 FAX: (636) 530-9101
e-mail: general@stockassoc.com
Web: www.stockassoc.com

TENTH AMENDED SITE PLAN:

WINDSOR CROSSING COMMUNITY CHURCH

CHESTERFIELD, MISSOURI

STATE OF MISSOURI
GEORGE MICHAEL STOCK
NUMBER PE-25116
PROFESSIONAL ENGINEER
8/16/18

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

REVISIONS:
1 08-16-18 - CITY COMMENTS

DRAWN BY: A.L.W.	CHECKED BY: G.M.S.
DATE: 06/29/2018	JOB NO: 218-6246
M.S.D. P #: --	BASE MAP #: 18-W
S.L.C. H&T #: --	H&T S.U.P. #: --
S.L.C. PAC #: --	M.D.N.R. #: MO-

SHEET TITLE:
PHOTOMETRIC PLAN

SHEET NO:
PP-1.0

McGraw-Edison

DESCRIPTION

The Impact Elite family of wall luminaires is the ideal complement to site design. Incorporating modular LightSquares technology, the Impact Elite luminaire provides outstanding uniformity and energy-conscious illumination. Combined with a rugged construction, the Impact Elite luminaire is the ideal facade and security luminaire for zones surrounding schools, office complexes, apartments and recreational facilities. UL/cUL listed for wet locations.

Catalog #	ISS series	Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Heavy-wall, die-cast aluminum housing and removable hinged door frame for precise tolerance control and repeatability. Hinged door inset for clean mating with housing surface and secured via two captive fasteners. Optional tamper-resistant Torx™ head fasteners offer vandal resistant access to the electrical chamber.

Optics
Choice of 10 patented, high-efficiency AccuLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AccuLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K (+/- 275K) CCT and minimum 70 CRI. Optional 3000K, 5000K and 5700K CCT.

Electrical
LED drivers mount to die-cast aluminum back housing for optimal heat sinking, operation efficacy, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V 60Hz or 480V 60Hz operation, greater than 0.9 power factor, less than 20% harmonic distortion, and are suitable for operation in -40°C to 40°C ambient environments. All fixtures are shipped standard with 10kV/10kA common – and differential – mode surge protection. LightSquares feature an IP66 enclosure rating and maintain greater than 90% lumen maintenance at 60,000 hours per IESNA TM-21. Emergency egress options for -20°C ambient environments and occupancy sensor available.

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

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

Warranty
Five-year warranty.



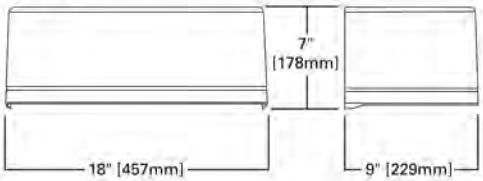

ISC/ISS/IST/ISW
IMPACT ELITE LED

1 LightSquare
Solid State LED

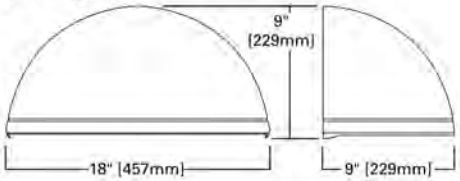
WALL MOUNT LUMINAIRE

DIMENSIONS

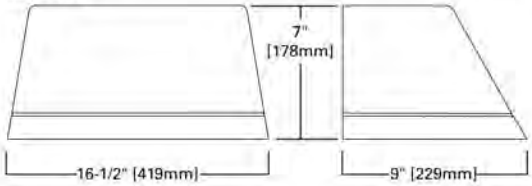
Cylinder



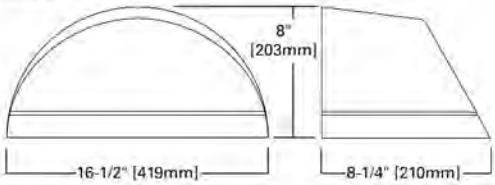
Quarter Sphere



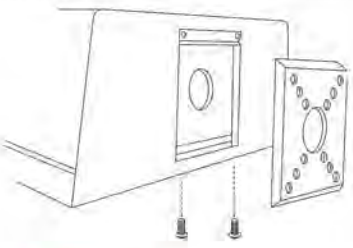
Trapezoid



Wedge



HOOK-N-LOCK MOUNTING



CERTIFICATION DATA
UL/cUL Listed
LM79 / LM80 Compliant
IP66 LightSquare
DesignLights Consortium® Qualified*
ISO 9001

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

SHIPPING DATA
Approximate Net Weight:
18 lbs. (8 kgs.)

*www.designlights.org

POWER AND LUMENS

1 LightSquare (AF)		Cylinder (ISC) and Quarter Sphere (ISS)						Trapezoid (IST) and Wedge (ISW)					
Drive Current (mA)		350	450	600	800	1000	1200	350	450	600	800	1000	1200
Power (Watts)	120-277V	20.3	25.5	33.4	43.9	55.1	66.2	20.3	25.5	33.4	43.9	55.1	66.2
Current (A)	120V	0.17	0.22	0.29	0.38	0.48	0.56	0.17	0.22	0.29	0.38	0.48	0.56
	277V	0.09	0.10	0.13	0.17	0.21	0.25	0.09	0.10	0.13	0.17	0.21	0.25
Power (Watts)	347V or 480V	23.3	28.7	36.6	49.5	60.7	70.1	23.3	28.7	36.6	49.5	60.7	70.1
Current (A)	347V	0.07	0.08	0.11	0.15	0.18	0.21	0.07	0.08	0.11	0.15	0.18	0.21
	480V	0.05	0.06	0.08	0.11	0.13	0.16	0.05	0.06	0.08	0.11	0.13	0.16
Optics													
T2	Lumens	2,336	2,934	3,827	4,791	5,663	6,444	2,498	3,136	4,091	5,122	6,054	6,889
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T3	Lumens	2,385	2,994	3,906	4,889	5,779	6,577	2,504	3,144	4,101	5,133	6,068	6,905
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4FT	Lumens	2,360	2,963	3,866	4,839	5,720	6,509	2,530	3,177	4,145	5,188	6,133	6,979
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
T4W	Lumens	2,386	2,996	3,908	4,892	5,783	6,581	2,500	3,139	4,095	5,126	6,059	6,895
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL2	Lumens	2,257	2,834	3,697	4,628	5,470	6,225	2,413	3,030	3,953	4,948	5,849	6,656
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL3	Lumens	2,220	2,787	3,636	4,552	5,380	6,122	2,365	2,970	3,874	4,849	5,732	6,523
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SL4	Lumens	2,110	2,649	3,456	4,326	5,113	5,818	2,234	2,805	3,660	4,581	5,415	6,162
	BUG Rating	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B0-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
SLL/SLR	Lumens	1,990	2,498	3,259	4,080	4,823	5,488	2,154	2,705	3,529	4,418	5,222	5,942
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U0-G1	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2	B1-U1-G2
RW	Lumens	2,380	2,988	3,898	4,880	5,768	6,564	2,465	3,095	4,037	5,054	5,974	6,798
	BUG Rating	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B2-U0-G0	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1	B3-U1-G1

LUMEN MAINTENANCE

Current	Ambient Temperature	25000 Hours*	50000 Hours*	60000 Hours*	100000 Hours*	Theoretical L70 (Hours)*
Up to 1.2A	Up to 40°C	>95%	>91%	>90%	>83%	20,4000

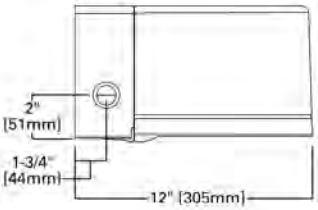
*Data calculated based on TM-21 calculator.

LUMEN MULTIPLIER

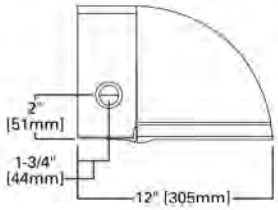
Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

THRUWAY BACK BOX

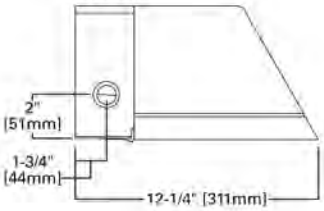
Cylinder



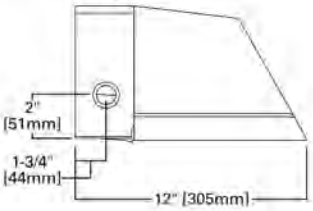
Quarter Sphere



Trapezoid



Wedge



CONTROL OPTIONS

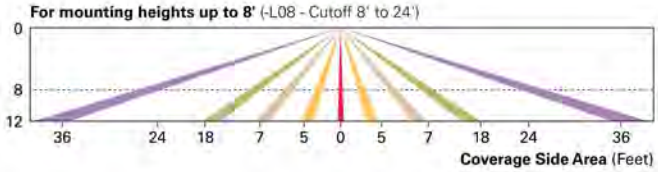
0-10V (DIM)
This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

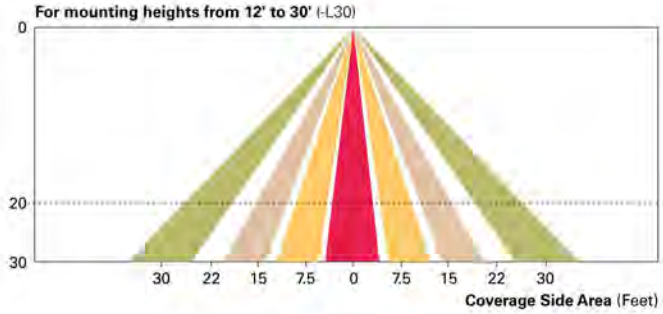
Photocontrol (PC1, PC2 and PER7)
Optional button-type photocontrol provides a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels.

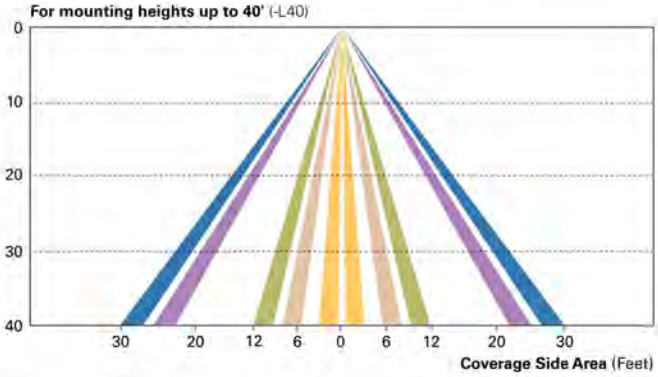
After Hours Dim (AHD)
This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the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

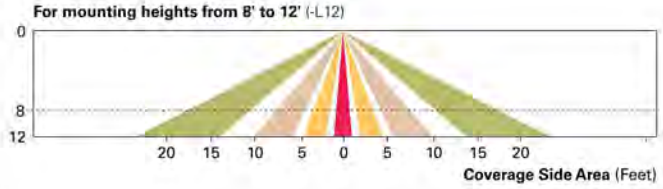
Dimming Occupancy Sensor (MS/DIM-LXX)
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes.

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

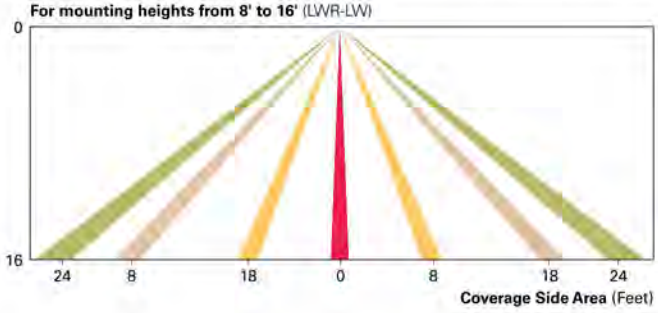


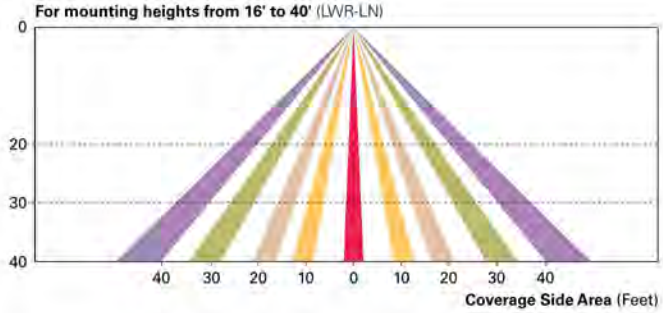






LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)
The Eaton's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting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





ORDERING INFORMATION

Sample Number: ISC-AF-1200-LED-E1-T3-BZ

Product Family [1]	Light Engine	Drive Current	Lamp Type	Voltage	Distribution	Color
ISC=Impact Elite LED Small Cylinder **ISS**=Impact Elite LED Small Quarter Sphere **IST**=Impact Elite LED Small Trapezoid **ISW**=Impact Elite LED Small Wedge	**AF**=(1) LightSquare	**350**=Drive Current Factory Set to 350mA **450**=Drive Current Factory Set to 450mA **600**=Drive Current Factory Set to 600mA **800**=Drive Current Factory Set to 800mA **1000**=Drive Current Factory Set to 1000mA **1200**=Drive Current Factory Set to 1200mA [2]	**LED**=Solid State Light Emitting Diodes	**E1**=Electronic (120-277V) **347**=347V [2] **480**=480V [2,3]	**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	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	**Accessories** (Order Separately) [17]
7030=70 CRI / 3000K CCT [4] **7050**=70 CRI / 5000K CCT [4] **7060**=70 CRI / 5700K CCT [4] **8030**=80 CRI / 3000K CCT [4] **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle [2,5,6] **P**=Button Type Photocontrol (Available in 120, 208, 240 or 277V. Must Specify Voltage) [2,6] **HA**=50°C High Ambient [7] **AHD145**=After Hours Dim, 5 Hours, 50% [8] **AHD245**=After Hours Dim, 6 Hours, 50% [8] **AHD255**=After Hours Dim, 7 Hours, 50% [8] **AHD355**=After Hours Dim, 8 Hours, 50% [8] **MS/DIM-LXX**=Motion Sensor for Dimming Operation [5,10,11] **LWR-LW**=LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height [5,11,12] **LWR-LN**=LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height [5,11,12] **BBB**=Battery Pack with Back Box (Specify 120V or 277V) [13] **CWB**=Cold Weather Battery Pack with Back Box (Specify 120V or 277V) [14] **LCF**=LightSquare Trim Plate Matches Housing Finish **HSS**=Factory Installed House Side Shield [15] **ULG**=Uplight Glow [5,6] **TR**=Tamper Resistant Hardware **X**=Driver Surge Protection (6kV) Only [16]	**MA1253**=10kV Circuit Module Replacement **MA1254-XX**=Thruway Back Box - Impact Elite Trapezoid **MA1255-XX**=Thruway Back Box - Impact Elite Cylinder **MA1256-XX**=Thruway Back Box - Impact Elite Quarter Sphere **MA1257-XX**=Thruway Back Box - Impact Elite Wedge **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor

NOTES:

1. Standard 4000K CCT and greater than 70 CRI.
2. Not available with ULG option.
3. 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).
4. Exentended lead times apply.
5. Not available with ISS or ISW.
6. Not available with LWR-XX or MS/DIM-LXX.
7. Suitable for 50°C provided no options other than motion sensor are included and driver output set to 1.A or less.
8. Requires the use of P photocontrol or the PER7 photocontrol receptacle with photocontrol accessory. Not available with 350mA drive current. See After Hours Dim supplemental guide for additional information.
9. Specify lens in place of XX. Round to next highest option based on mounting height. Available options are 08, 20 and 40W.
10. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
11. Includes integral photocell.
12. LumaWatt Pro wireless sensors are factory installed and requiring network components in appropriate quantities. See www.eaton.com/lighting for LumaWatt Pro application information.
13. LED standard integral battery pack is rated for minimum operating temperature 32°F (0°C). Operates downlight for 90-minutes.
14. LED cold weather integral battery pack is rated for minimum operating temperature -4°F (-20°C). Operates downlight for 90-minutes
15. Only for use with SL2, SL3 and SL4 distributions. The LightSquare trim plate is painted black when the HSS option is selected.
16. Removes additional surge module.
17. Specify color in place of XX.