

## Planning Commission Staff Report

<b>Project type:</b>	Site Development Plan
<b>Meeting Date:</b>	August 22, 2022
<b>From:</b>	Shilpi Bharti, Planner
<b>Location:</b>	15310 Conway Road
<b>Description:</b>	<b>Chabad at Chesterfield (SDP):</b> Site Development Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for Chabad at Chesterfield on a 1.49-acre tract of land, zoned "PC" Planned Commercial District.

### PROPOSAL SUMMARY

Chabad at Chesterfield has submitted a Site Development Plan, Landscape Plan, Lighting Plan, and Architectural Elevations for a proposed Jewish facility at 15310 Conway Road.

Proposed development includes:

- 15,000 square feet of single-story building
- 58 Parking spaces
- Landscaping
- Screen wall
- Lighting Plan

### HISTORY OF SUBJECT SITE

Prior to the incorporation of the City of Chesterfield, the site was zoned "R3" —Residence District by St. Louis County. In 2007, the City rezoned the property to "PC" Planned Commercial District via Ordinance Number 2361. This ordinance was later repealed in 2008 to accommodate a Site Development Plan application that was filed simultaneously for a 27,000 square-foot, three (3) story bank building, but was put on hold indefinitely. In January of 2021, the governing ordinance was amended to modify development criteria for the subject site, including permitted uses, setbacks and density requirements. The site is governed under the provisions of Ordinance 3150.



Figure 1: Subject Site

## **STAFF ANALYSIS**

The Site Development Plan consists of a 15,000 square foot building that will be 28 feet high. The sidewalk is provided along Conway Road that internally connects to the site. Currently the site is covered with 21,013 sq. ft. of tree canopy. Development of the site will include removing 20,779 sq. ft. (98.5 %) of tree canopy. As per the Unified Development Code of the City of Chesterfield, a minimum thirty percent (30%) of any wooded area shall be maintained as protected wooded area. In order to meet the 30% tree preservation requirement, the applicant has submitted a mitigation plan along with the Landscape Plan. The Mitigation Plan provides 5,980 sq. ft. of required tree canopy that meets the minimum tree preservation requirement. Details of the Site Development Plan are described in sub-sections below:

### **Site Relationships**

The proposed building is 15,000 square feet on 1.49 acres of land. There are 58 parking spaces provided in the proposed development that complies with the Unified Development Code minimum parking requirement. The building design is of a similar height to the adjacent building across and along Conway Road.

### **Circulation System and Access**

The site is accessed through a shared driveway of 15320 Conway Road (property west of the subject site). Internal driveways are 22' wide with two-way access. Direct connection of the internal sidewalk system is provided on the northeast corner of the site.



Figure 2: Site Plan

### **Scale, Topography and Retaining Wall**

The site is sloped towards the south having higher elevations on the north. The proposed development is planning to level the site to match the finished floor with Conway Road. The height of the proposed building is 28'. Chesterfield Parkway East is 8' higher than the site at ground level, thus the height of the building from Chesterfield Parkway will be 20'. The site is proposing minor retaining walls on the east side of the property near the existing walls by the Chesterfield Parkway overpass. The retaining walls will be screened with landscaping.

### **Elevation**

Building materials include brick, painted concrete panels, dark grey phenolic panels and wood phenolic panels. The entrance is recessed with glass and a wood accent wall. The north and northeast elevations have large windows, and concrete mass walls. The rooftop mechanical units will be screened by the building parapets.



Figure 3: North side elevation

### Lighting

There are four types of light fixtures proposed for the development. There are six (6) parking lights, one (1) wall pack, eighteen (18) flood lights, and two (2) LED wall cylinders.

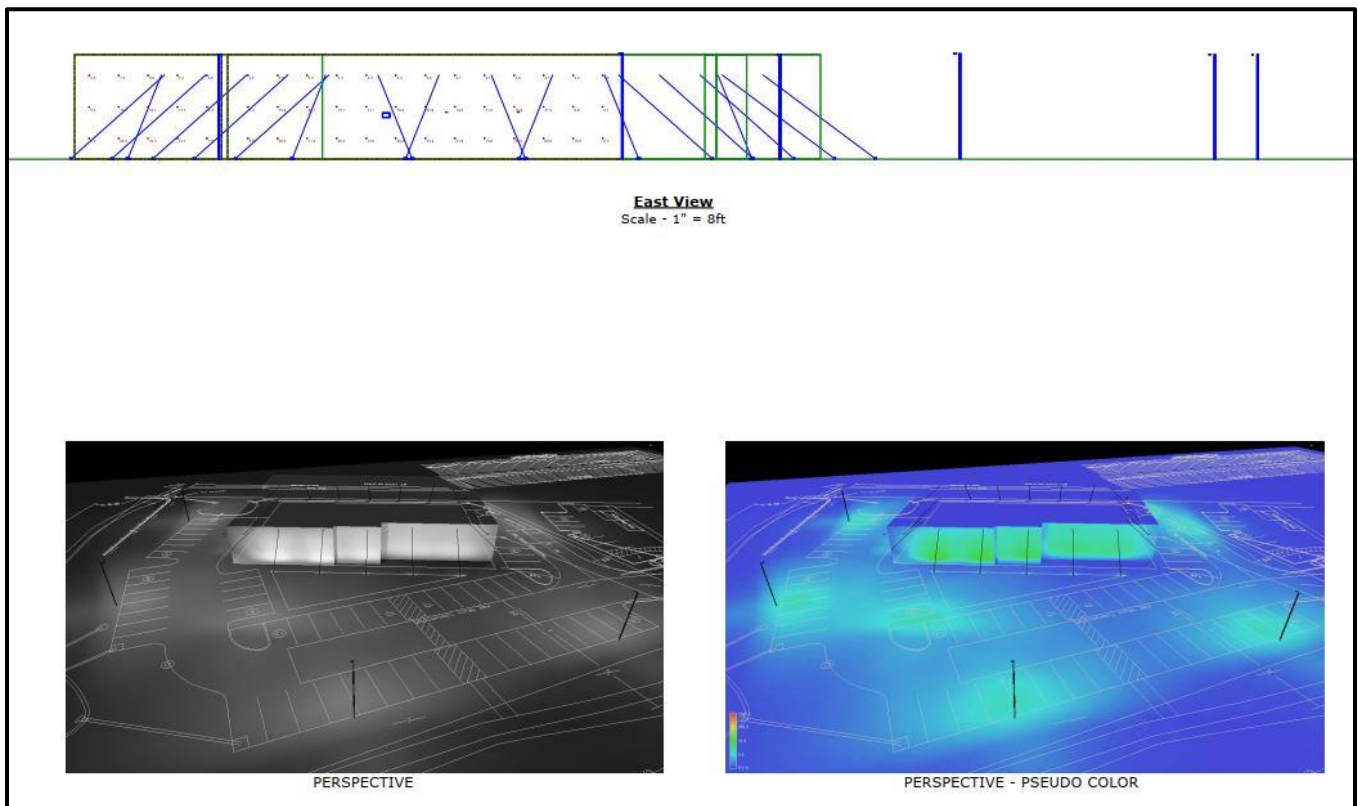


Figure 4: Up light projection

### Landscaping

As per the Unified Development Code and site specific ordinance, landscaping is required. A five (5) foot buffer is required from the southern boundary, ten (10) feet from the right-of-way of Conway Road on

the northern boundary, and twenty-five (25) feet from the right-of-way of Chesterfield Parkway East on the eastern boundary. The applicant has depicted all the required landscape buffers. The Landscape Plan consists of one (1) bio-retention basin, twelve (12) different varieties of trees, and twelve (12) different varieties of shrubs and grass. Applicant has also submitted mitigation plan that consists of 11 evergreen trees, 1 ornamental tree, and 5 shade trees.

**Rendering**



*Figure 5: Rendering*

**ARB Meeting Report**

The project was reviewed by the Architectural Review Board on April 14, 2022, where the applicant requested to hold. The applicant submitted the revised submittal and the project was reviewed by Architectural Review Board members on May 12, 2022. At that time, the Board made a motion to forward the Site Development Plan, Landscape Plan, Lighting Plan, Amended Architectural Elevations and Architect’s Statement of Design to the Planning Commission with a recommendation to approve as presented.

**DEPARTMENTAL INPUT**

Staff has reviewed this proposed development and found it to be in compliance with the City’s Unified Development Code and site-specific ordinances. All outstanding comments have been addressed at this time. Staff has no further comment, Planning Commission may vote on this tonight.

**MOTION**

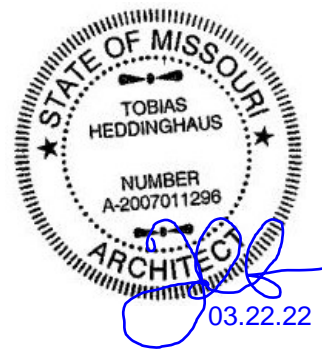
The following options are provided to the Planning Commission for consideration relative to this application:

- 1) "I move to approve (or deny) the Site Development Plan, Landscape Plan, Lighting Plan and Architectural Elevations for 15310 Conway Road, (Chabad at Chesterfield) as presented."
- 2) "I move to approve the Site Development Plan, Landscape Plan, Lighting Plan and Architectural Elevations for 15310 Conway Road, (Chabad at Chesterfield) with the following conditions..."  
(Conditions may be added, eliminated, altered or modified)

Attachments: Site Development Plan Packet

# CHABAD OF CHESTERFIELD

03.22.2022



## Architect's Statement of Design

Chabad of Chesterfield will be a new one story building and will serve as a place to gather and gain knowledge of the Jewish faith. It will include a shul, an area to lounge and teach cooking classes, some learning spaces, and an area of future expansion that may be leased as professional space. The total area of the building will not exceed 15,000 GSF. Outside are areas associated with parking, a small patio with covered pergola, and an area for playground equipment.

### General Requirements for Site Design

#### **Site Relationships:**

The site layout places the building in the center of the site, with parking that wraps conveniently on 3 sides. There is a generous plaza space between the main entry doors and the parking lot in front for safe access during peak times. A side entrance is also available to the east to provide direct access to the learning spaces. Parking on the east side of the building is single loaded and faced away from the fenced play area. An outdoor seating area is also located on this side of the building with an overhead pergola to help define the space. Due to the proximity of the Interstate highway, 9' brick clad screen walls provide a buffer to both glare and noise that will be present from vehicles at high speed. Views are focused primarily to the north and east. The building walls and screen walls will provide shade from afternoon sun and help to keep these outdoor areas cool in the summer. The trash enclosure design is intended to be very discrete by using the same 9' brick walls and wainscot on the building to wrap the trash area and appear to be part of the building architecture.

#### **Circulation System and Access:**

Bicycles are encouraged as a means for arriving at the building. Racks are conveniently located adjacent to the entry plaza in front of the building. Sidewalks are located along Chesterfield Parkway East and Conway Road. We will provide a direct connection of the internal sidewalk system to the NE corner of the site. A change in paving material will occur where the sidewalk crosses the parking area to encourage vehicles to watch for pedestrians. Parking is located on the front and each side of the building. There is a generous landscape buffer in the front of the building between parking and building and between parking and the street.

#### **Topography:**

The area for the building pad on this site sits very low so we intend to bring the finished floor up somewhat to better address Conway Road and provide a more gradual sloped connection into the site. Our grading plan proposes round cut and fill slopes, both horizontally and vertically, and results in a very natural appearance to the overall site.

**Retaining Walls:**

Some minor retaining walls are required to transition near the existing walls by the Chesterfield Parkway overpass and to improve volume to our stormwater system. Both walls are on the east side of our site and will be screened with landscaping.

**General Requirements for Building Design****Scale:**

Chabad of Chesterfield is a one story building compatible in size, proportion, design and orientation to the new building recently constructed to the west, as well as the one story building across Conway Road. Awnings, Pergola, Canopies and wall insets are used to achieve a sense of human scale. While the nearest building to the west is over 100' away, similar fenestration can be found on both buildings.

**Design:**

All facades are coordinated in color, material types, architectural form and detailing. The building is broken down into groups of neutral painted colors and earth-tone materials. The main active corner is a light color, the entrance is recessed with lots of glass and a wood accent wall. The other less active sides transition into more grey brick and mid-tone painted concrete walls. We have located the majority of the largest windows for the project faced north and north east and used concrete mass walls to store and release heat slowly particularly on areas facing southwest. We are providing skylights in key areas to reduce the need for artificial electric light at times during the day. Concrete site cast wall panels benefit from much reduced transportation and fuel costs that are associated with the alternative pre-cast wall panels that are shipped from a long distance away. Many other materials used inside and out will benefit from low VOC content and high quantities of recycled materials. Our rooftop mechanical units will be screened by the building parapets.

**Materials and Colors:**

Colors, materials and detailing will be compatible with adjacent buildings and properties. Brick and concrete are highly durable materials. Phenolic panels used to create the wood accent wall near the main entrance are virtually graffiti proof. All materials on this project are neutral in color, warm, and not highly reflective.

**Landscape Design and Screening:**

This property is surrounded by roadways on three of four sides, with the prominence of the corner location at Conway and Chesterfield Parkway East.

We have provided street tree plantings along both Conway and Chesterfield Parkway, but have limited plantings at the intersection to allow clear views into the property. Since Conway provides the only route to the property via the shared driveway on the adjoining property, we have developed plantings that allow clear views to the facilities main entrance under canopy trees but over clusters of shrubs and grasses.



On the property's common border with the adjoining office building, we have utilized small columnar evergreen trees (Keterleeri Junipers) to screen our loading facilities from the neighboring views.

Along Interstate 64 we are will be planting evergreen trees at the southwestern corner of the building to screen the service area in conjunction with the architectural treatment of this enclosure. These evergreens will help frame views of the building along with the two preserved existing trees on the right of way.

The playground is programmed for the west side of the building along Chesterfield Parkway. As the roadway is elevated above the building and playground, we have provided a significant buffering along this portion of the site. In this area we have specified Canopy Trees and Evergreen Trees as well as significant shrub groupings for color, texture and screening.

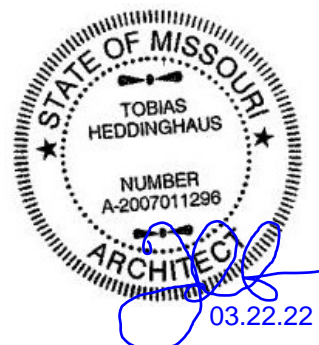
As state earlier, the trash enclosure design is intended to be very discrete by using the same 9' brick walls and wainscot on the building to wrap the trash area and appear to be part of the building architecture.

**Signage:**

A Signage Package will be submitted at a later date.

**Lighting:**

Site Lighting and Building Accent Lighting will be provided and consistent with adjacent properties. No on-site illumination source shall be situated so that light is cast directly on adjoining properties or Public Roadways. All lighting will adhere to footcandle levels as outlined by the City of Chesterfield. The enclosed Photometric Drawing/ Cut Sheets identify fixture style, location, and characteristics.







Type	Mfg. Name	Fixture Catalog Number / Description
A	LITHONIA	RSX1 LED P4 40K R4 MVOLT SPA DDBXD
A-POLE	LITHONIA	SSS 17 4C DM19AS DDBXD
B	LITHONIA	WPX2 LED 40K MVOLT DDBXD M2
WALLPACK	LITHONIA	TWX3 LED ALO 40K MVOLT DDBTXD
CYLINDER	KICHLER	11251AZT30



# RSX1 LED Area Luminaire

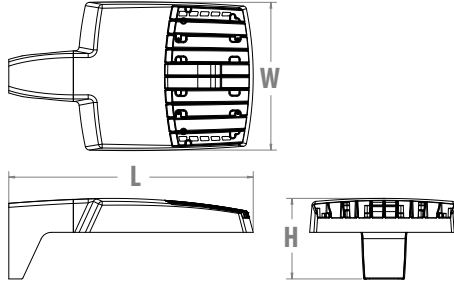


Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications

EPA (ft <sup>2</sup> @0°):	0.57 ft <sup>2</sup> (0.05 m <sup>2</sup> )
Length:	21.8" (55.4 cm) (SPA mount)
Width:	13.3" (33.8 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
Weight: (SPA mount):	22.0 lbs (10.0 kg)



## Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

## Ordering Information

**EXAMPLE:** RSX1 LED P4 40K R3 MVOLT SPA DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 <b>P4</b>	30K 3000K <b>40K 4000K</b> 50K 5000K	R2 Type 2 Wide R3 Type 3 Wide R3S Type 3 Short <b>R4 Type 4 Wide</b> R4S Type 4 Short R5 Type 5 Wide <sup>1</sup> R5S Type 5 Short <sup>1</sup> AFR Automotive Front Row AFRR90 Automotive Front Row Right Rotated AFRL90 Automotive Front Row Left Rotated	<b>MVOLT (120V-277V)<sup>2</sup></b> HVOLT (347V-480V) <sup>3</sup> XVOLT (277V-480V) <sup>4</sup> <b>(use specific voltage for options as noted)</b> 120 <sup>3</sup> 277 <sup>5</sup> 208 <sup>3</sup> 347 <sup>5</sup> 240 <sup>3</sup> 480 <sup>5</sup>	<b>SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°)</b> RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) <sup>6</sup> WBA Wall bracket <sup>1</sup> WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting <sup>6</sup> AARP Adjustable tilt arm round pole mounting <sup>6</sup> AAWB Adjustable tilt arm with wall bracket <sup>6</sup> AAWSC Adjustable tilt arm wall bracket and surface conduit box <sup>6</sup>

Options	Finish
<p><b>Shipped Installed</b></p> <p>HS House-side shield<sup>7</sup></p> <p>PE Photocontrol, button style<sup>8,9</sup></p> <p>PEX Photocontrol external threaded, adjustable<sup>9,10</sup></p> <p>PER7 Seven-wire twist-lock receptacle only (no controls)<sup>9,11,12,13</sup></p> <p>CE34 Conduit entry 3/4" NPT (Qty 2)</p> <p>SF Single fuse (120, 277, 347)<sup>5</sup></p> <p>DF Double fuse (208, 240, 480)<sup>5</sup></p> <p>SPD20KV 20KV Surge pack (10KV standard)</p> <p>FAO Field adjustable output<sup>9,13</sup></p> <p>DMG 0-10V dimming extend out back of housing for external control (control ordered separate)<sup>9,13</sup></p>	<p><b>DDBXD Dark Bronze</b></p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured Dark Bronze</p> <p>DBLXD Textured Black</p> <p>DNATXD Textured Natural Aluminum</p> <p>DWHGXD Textured White</p>
<p><b>Shipped Installed</b></p> <p><b>*Standalone and Networked Sensors/Controls (factory default settings, see table page 9)</b></p> <p>NLTAIR2 nLight AIR generation 2<sup>13,14,15</sup></p> <p>PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2)<sup>13,15,16</sup></p> <p>BAA Buy America(n) Act Compliant</p> <p><b>*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.</b></p> <p><b>Shipped Separately (requires some field assembly)</b></p> <p>EGS External glare shield<sup>7</sup></p> <p>EGFV External glare full visor (360° around light aperture)<sup>7</sup></p> <p>BS Bird spikes<sup>17</sup></p>	



## Ordering Information

### Accessories

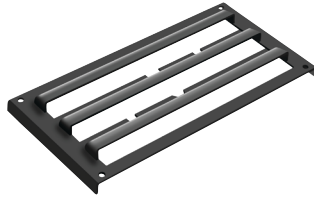
Ordered and shipped separately.

RSX1HS	RSX1 House side shield (includes 1 shield)
RSX1HSAFRUR	RSX1 House side shield for AFR rotated optics (includes 1 shield)
RSX1EGS (FINISH) U	External glare shield (specify finish)
RSX1EGFV (FINISH) U	External glare full visor (specify finish)
RSXRPA (FINISH) U	RSX Universal round pole adaptor plate (specify finish)
RSXWBA (FINISH) U	RSX WBA wall bracket (specify finish) <sup>1</sup>
RSXSCB (FINISH) U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell -SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>

### NOTES

- 1 Any Type 5 distribution, is not available with WBA.
- 2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 3 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 4 XVOLT driver not available with P1 or P2. XVOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX.
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Maximum tilt is 90° above horizontal.
- 7 It may be ordered as an accessory.
- 8 Requires MVOLT or 347V.
- 9 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
- 10 Requires 120V, 208V, 240V or 277V.
- 11 Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
- 12 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 13 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- 14 Must be ordered with PIRHN.
- 15 Requires MVOLT or HVOLT.
- 16 Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

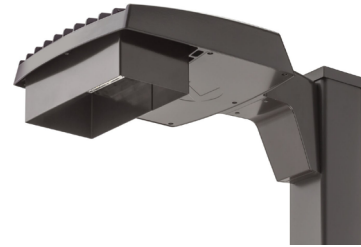
## External Shields



House Side Shield



External Glare Shield

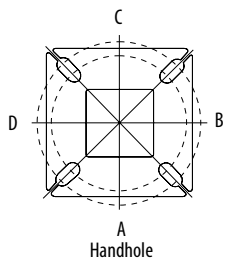


External 360 Full Visor

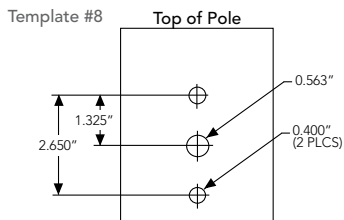
## Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

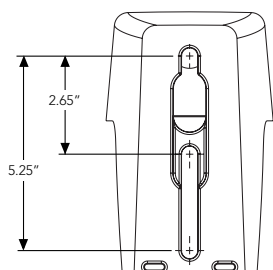
### HANDHOLE ORIENTATION



### RSX POLE DRILLING



### RSX STANDARD ARM & ADJUSTABLE ARM



### Round Tenon Mount - Pole Top Slipfitters

Tenon O.D.	RSX Mounting	Single	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
2 - 3/8"	RPA, AARP	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2 - 7/8"	RPA, AARP	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	RPA, AARP	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

### Drill/Side Location by Configuration Type

Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
#8	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

### RSX1 - Luminaire EPA

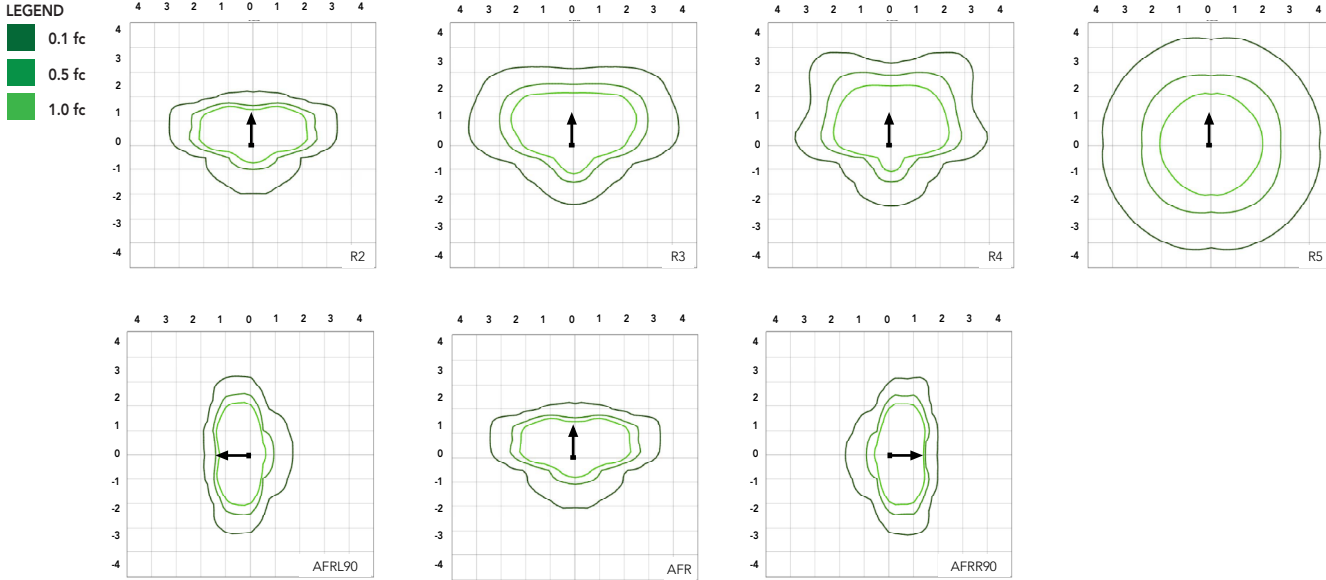
\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
<b>SPA - Square Pole Adaptor</b>	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
<b>RPA - Round Pole Adaptor</b>	0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36
<b>MA - Mast Arm Adaptor</b>	0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1
<b>IS - Integral Slipfitter</b>	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
<b>AASP/AARP - Adjustable Arm Square/Round Pole</b>	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73
	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	5.43
	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18

# Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RSX Area homepage](#).

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

### Electrical Load

Performance Package	System Watts (W)	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27

### Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

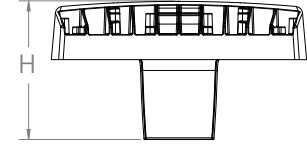
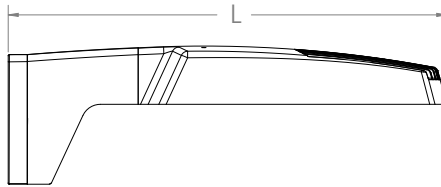
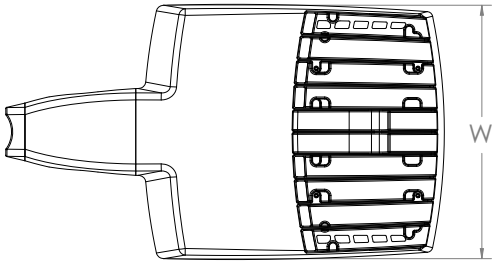
Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
		R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
		R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
P2	72W	R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
		R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
		R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
P3	109W	R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
		R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
		R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
P4	133W	R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
		R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
		R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

## Dimensions & Weights

### Luminaire Weight by Mounting Type

Mounting Configuration	Total Luminaire Weight
SPA	22 lbs
RPA	24 lbs
MA	22 lbs
WBA	25 lbs
WBASC	28 lbs
IS	25 lbs
AASP	25 lbs
AARP	27 lbs
AAWB	28 lbs
AAWSC	31 lbs

#### RSX1 with Round Pole Adapter (RPA)

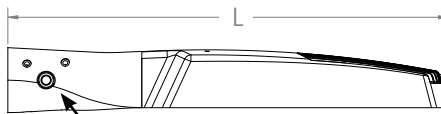
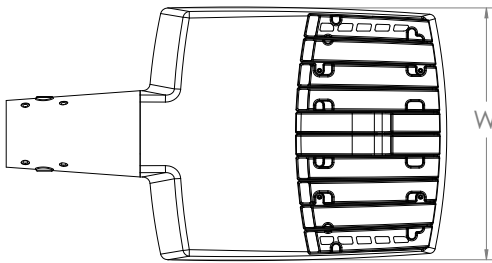


Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



Length: 22.8" (57.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.2" (18.4 cm) Arm

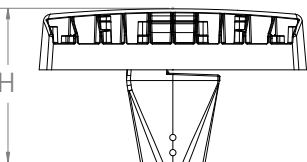
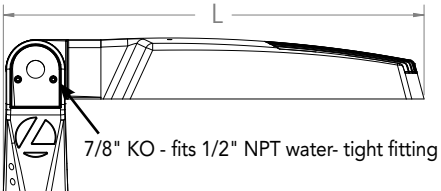
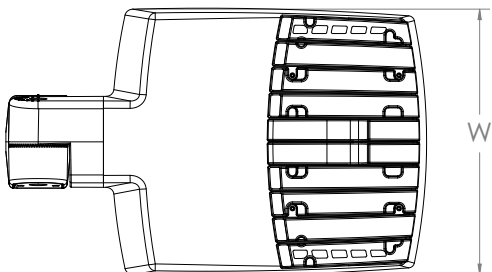
#### RSX1 with Mast Arm Adapter (MA)



7/16" locking thru bolt/nut provided

Length: 23.2" (59.1 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 3.5" (8.9 cm) Arm

#### RSX1 with Adjustable Slipfitter (IS)



7/8" KO - fits 1/2" NPT water-tight fitting

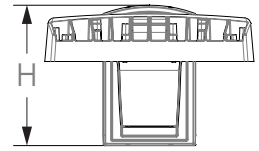
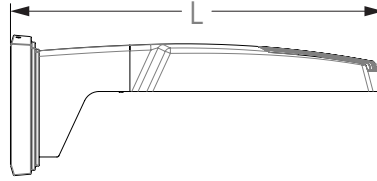
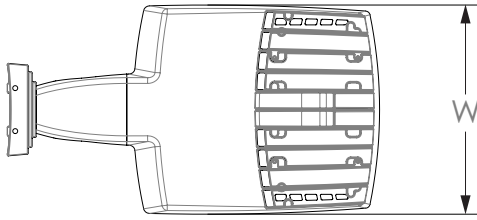
Length: 20.7" (52.7 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.6" (19.3 cm) Arm



COMMERCIAL OUTDOOR

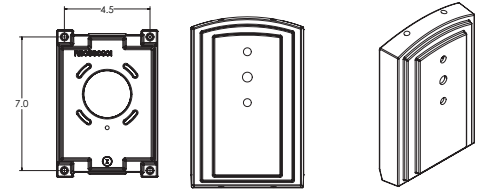
## Dimensions

### RSX1 with Wall Bracket (WBA)

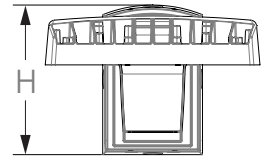
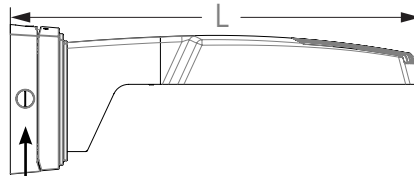
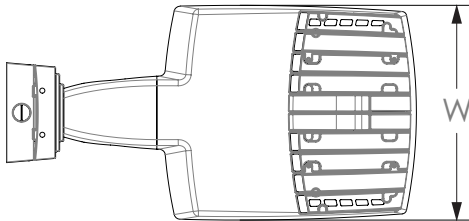


Length: 23.6" (59.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 8.9" (22.6 cm) Arm

#### Wall Bracket (WBA) Mounting Detail



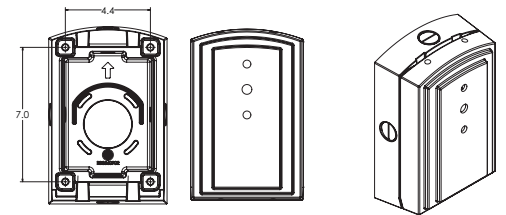
### RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



3/4" NPT taps with plugs - Qty (4) provided

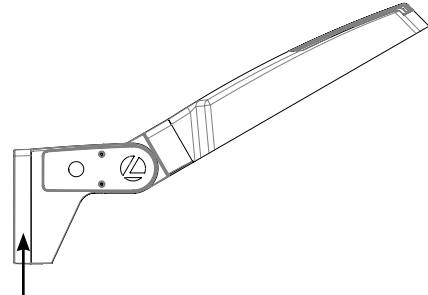
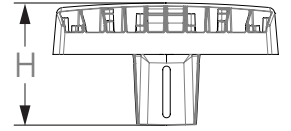
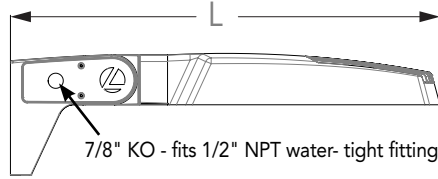
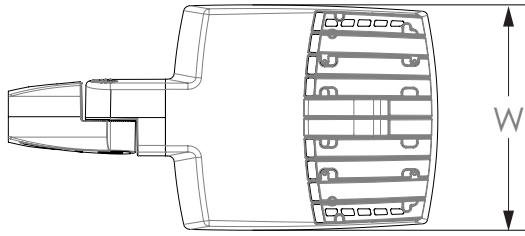
Length: 25.3" (64.3 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

#### Surface Conduit Box (SCB) Mounting Detail



## Dimensions

### RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



**NOTE:**  
RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



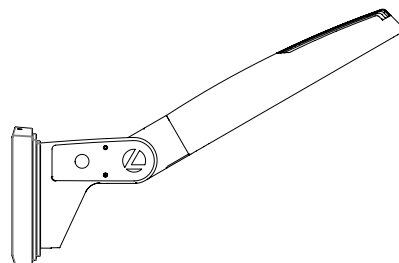
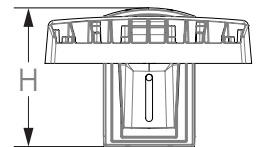
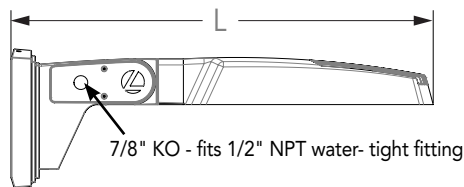
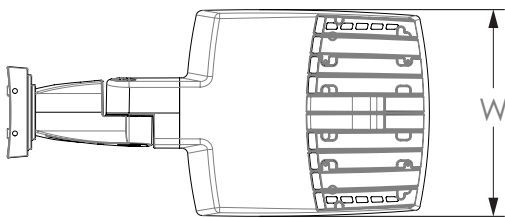
Length: 25.3" (65.3 cm) **AASP**  
26.3" (66.8 cm) **AARP**  
Width: 13.3" (33.8 cm)  
Height: 3.0" (7.6 cm) Main Body  
7.2" (18.2 cm) Arm

#### Notes

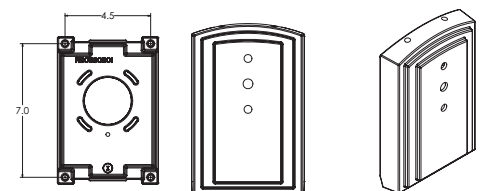
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

### RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



#### Wall Bracket (WBA) Mounting Detail

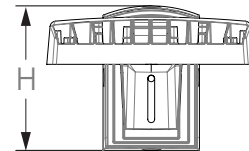
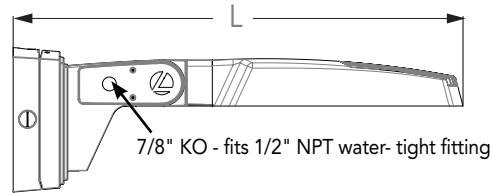
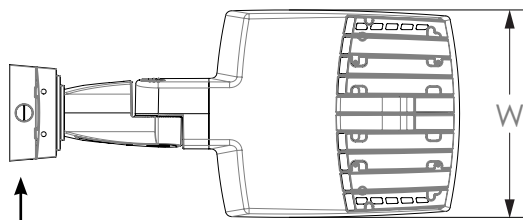


Length: 27.1" (68.8 cm)  
Width: 13.3" (33.8 cm)  
Height: 3.0" (7.6 cm) Main Body  
8.9" (22.6 cm) Arm

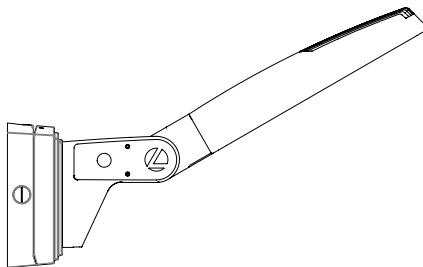


## Dimensions

### RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)

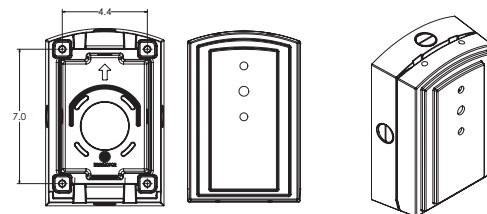


3/4" NPT taps with plugs - Qty (4) provided

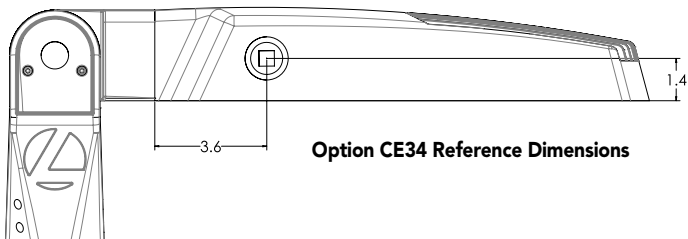


Length: 28.8" (73.2 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

### Surface Conduit Box (SCB) Mounting Detail

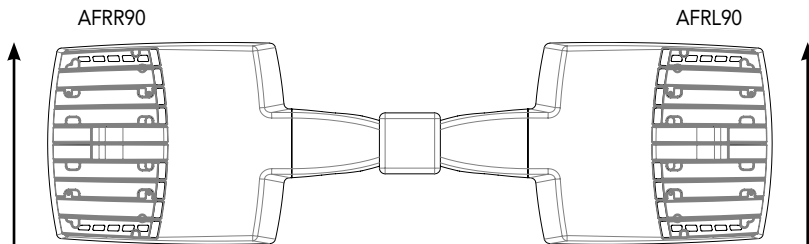


### Additional Reference Drawings



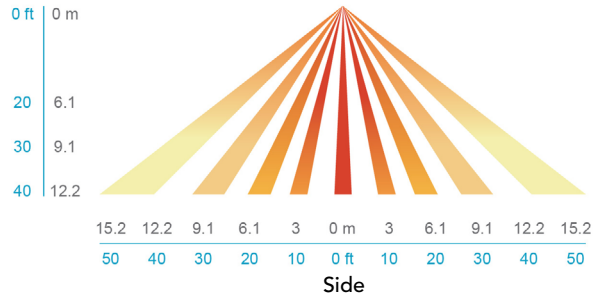
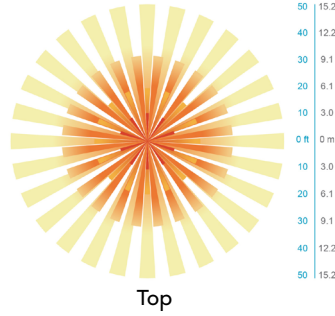
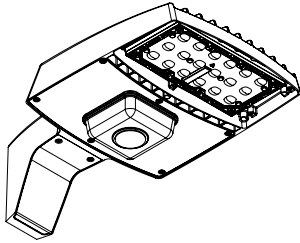
Option CE34 Reference Dimensions

### Automotive Front Row - Rotated Optics (AFRR90/R90)



(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

## nLight Sensor Coverage Pattern NLTAIR2 PIRHN



Motion Sensor Default Settings - Option PIRHN						
Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)
NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes

\*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is tilted.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The RSX LED area luminaire is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

### CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

### OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row), and AFR rotated AFR90 and ARFL90.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

### nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only. U.S. Patent No. D882, 1465

### BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

[www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

## FEATURES & SPECIFICATIONS

**INTENDED USE** — These specifications are for USA standards only. Square Straight Steel is a general purpose light pole for up to 39-foot mounting heights. This pole provides a robust yet cost effective option for mounting area lights and floodlights.

### CONSTRUCTION

**Pole Shaft:** The pole shaft is of uniform dimension and wall thickness and is made of a weldable-grade, hot-rolled, commercial-quality steel tubing with a minimum yield of 55 KSI (11-gauge, .1196"), or 50 KSI (7-gauge, .1793"). Shaft is one-piece with a full-length longitudinal high-frequency electric resistance weld. Uniformly square in cross-section with flat sides, small corner radii and excellent torsional qualities. Available shaft widths are 4", 5" and 6".

**Pole Top:** Options include tenon top, drilled for side mount fixture, tenon with drilling (includes extra handhole) and open top. Side drilled and open top poles include a removable top cap.

**Handhole:** A reinforced handhole with grounding provision is provided at 18" from the base on side A. Positioning the handhole lower may not be possible and requires engineering review; consult Tech Support-Outdoor for further information. Every handhole includes a cover and cover attachment hardware. The handhole has a nominal dimension of 2.5" x 5".

**Base Cover:** A durable ABS plastic two-piece full base cover, finished to match the pole, is provided with each pole assembly. Additional base cover options are available upon request.

**Anchor Base/Bolts:** Anchor base is fabricated from steel that meets ASTM A36 standards and can be altered to match existing foundations; consult factory for modifications. Anchor bolts are manufactured to ASTM F1554 Standards grade 55, (55 KSI minimum yield strength and tensile strength of 75-95 KSI). Top threaded portion (nominal 12") is hot-dipped galvanized per ASTM A-153.

**HARDWARE** — All structural fasteners are high-strength galvanized carbon steel. All non-structural fasteners are galvanized or zinc-plated carbon steel or stainless steel.

**FINISH** — Extra durable painted finish is coated with TGIC (Triglycidyl Isocyanurate) Polyester powder that meets 5A and 5B classifications of ASTM D3359. Powder-coat finishes include Dark Bronze, White, Black, and Natural Aluminum colors. Architectural Colors and Special Finishes are available by quote and include, but are not limited to Paint over Hot-dipped Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes.

**BUY AMERICAN** — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**INSTALLATION** — **Do not** erect poles without having fixtures installed. Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates. If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage. Lithonia Lighting is not responsible for the foundation design.

**WARRANTY** — 1-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**NOTE:** Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Catalog Number
Notes
Type



### Anchor Base Poles

# SSS

## SQUARE STRAIGHT STEEL



# SSS Square Straight Steel Poles

## ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

**Example:** SSS 20 5C DM19 DDBXD

SSS						
Series	Nominal fixture mounting height	Nominal shaft base size/wall thickness <sup>2</sup>	Mounting <sup>3</sup>		Options	Finish <sup>13</sup>
<b>SSS<sup>1</sup></b>	<b>10'-39'</b> (for 1/2 ft increments, add =6 to the pole height. Ex: 20-6 equals 20ft 6in.)	<b>4C - 4" 11g (.1196")</b> 4G 4" 7g (.1793") 5C 5" 11g (.1196") 5G 5" 7g (.1793") 6G 6" 7g (.1793")	<b>Tenon mounting</b> PT Open top (includes top cap) T20 2-3/8" O.D. (2" NPS) T25 2-7/8" O.D. (2-1/2" NPS) T30 3-1/2" O.D. (3" NPS) T35 4" O.D. (3-1/2" NPS) <b>KAC/KAD/KSE/KSF/KVR/KVF Drill mounting<sup>4</sup></b> DM19 1 at 90° DM28 2 at 180° DM28 PL 2 at 180° with one side plugged DM29 2 at 90° DM39 3 at 90° DM49 4 at 90° <b>CSX/DSX/RSX/AERIS™/OMERO™/HLA/KAX Drill mounting<sup>4</sup></b> <b>DM19AS 1 at 90°</b> DM28AS 2 at 180° DM29AS 2 at 90° DM39AS 3 at 90° DM49AS 4 at 90° <b>RAD drill mounting<sup>4</sup></b> DM19RAD 1 at 90° DM28RAD 2 at 180° DM29RAD 2 at 90° DM39RAD 3 at 90° DM49RAD 4 at 90° <b>ESX Drill mounting<sup>4</sup></b> DM19ESX 1 at 90° DM28ESX 2 at 180° DM29ESX 2 at 90° DM39ESX 3 at 90° DM49ESX 4 at 90°	<b>AERIS™ Suspend drill mounting<sup>4,5</sup></b> DM19AST_ 1 at 90° DM28AST_ 2 at 180° DM29AST_ 2 at 90° DM39AST_ 3 at 90° DM49AST_ 4 at 90° <b>OMERO™ Suspend drill mounting<sup>4,5</sup></b> DM19MRT_ 1 at 90° DM28MRT_ 2 at 180° DM29MRT_ 2 at 90° DM39MRT_ 3 at 90° DM49MRT_ 4 at 90°	<b>Shipped installed</b> VD Vibration damper <sup>6</sup> HAxy Horizontal arm bracket (1 fixture) <sup>7,8</sup> FDLxy Festoon outlet less electrical <sup>7,9</sup> CPL12/xy 1/2" coupling <sup>7</sup> CPL34/xy 3/4" coupling <sup>7</sup> CPL1/xy 1" coupling <sup>7</sup> NPL12/xy 1/2" threaded nipple <sup>7</sup> NPL34/xy 3/4" threaded nipple <sup>7</sup> NPL1/xy 1" threaded nipple <sup>7</sup> EHHxy Extra handhole <sup>7,10</sup> NEC NEC 410.30 compliant gasketed handhole (Not UL Labeled) IC Interior coating <sup>11</sup>  L/AB Less anchor bolts (Include when anchor bolts are not needed) TP Tamper resistant handhole cover fasteners UL UL listed with label (Includes NEC compliant cover) BAA Buy America(n) Act Compliant <sup>12</sup>	<b>Super durable paint colors</b> <b>DDBXD Dark bronze</b> DBLXD Black DNAXD Natural aluminum DWHXD White DDBTXD Textured dark bronze DBL BXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white <b>Other finishes</b> GALV Galvanized finish <b>Architectural colors and special finishes</b> Paint over Galvanized, RAL Colors, Custom Colors and Extended Warranty Finishes available.

### NOTES:

- Handhole covers (HHC), full base covers (FBC) and top caps (TC) shipped separately. No need to call out in nomenclature. For additional parts please order as replacements.
- Wall thickness will be signified with a "C" (11 Gauge) or a "G" (7-Gauge) in nomenclature. "C" - 0.1196" | "G" - 0.1793".
- PT open top poles include top cap. When ordering tenon mounting and drill mounting for the same pole, follow this example: DM28/T20. The combination includes a required extra handhole.
- Refer to the fixture spec sheet for the correct drilling template pattern and orientation compatibility.
- Insert "1" or "2" to designate fixture size; e.g. DM19AST2.
- On 4" and 5" poles, VD cannot be installed if provisions (EHH, FDL, NPL, CPL) are located higher than 2/3 of the pole's total height.  
*Example: Pole height is 25ft, A provision cannot be placed above 16ft.*
- Specify location and orientation when ordering option.  
**For "x":** Specify the height above the base of pole in feet or feet and inches; separate feet and inches with a "-".  
*Example: 5ft = 5 and 20ft 3in = 20-3*  
**For "y":** Specify orientation from handhole (A,B,C,D) Refer to the Handhole Orientation diagram below.  
*Example: 1/2" coupling at 5' 8", orientation C = CPL12/5-8C*
- Horizontal arm is 18" x 2-3/8" O.D. tenon standard, with radius curve providing 12" rise and 2-3/8" O.D. If ordering two horizontal arm at the same height, specify with HAxy. Example: HA20BD.
- FDL does not come with GFCL outlet or handhole cover. These must be supplied by contractor or electrician.
- Combination of tenon-top and drill mount includes extra handhole. EHH includes cover.
- Provides enhanced corrosion resistance.
- Use when mill certifications are required.
- Finish must be specified. Additional colors available; see Architectural Colors brochure linked [here](#) (Form No. 794.3).

**Accessories:** Order as separate catalog number.

PL DT20 Plugs for ESX drillings  
PL DT8 Plugs for DMxxAS drillings

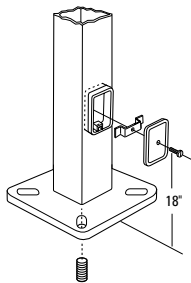
# SSS Square Straight Steel Poles

## TECHNICAL INFORMATION — EPA (ft<sup>2</sup>) with 1.3 gust

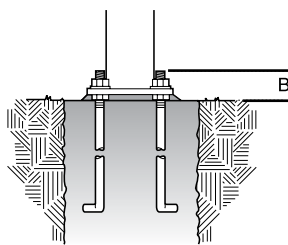
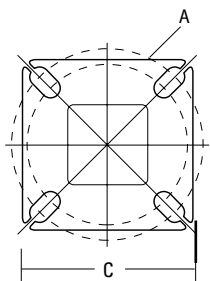
Catalog Number	Nominal Shaft Length (ft.)*	Pole Shaft Size (Base in. x Top in. x ft.)	Wall thick (in)	Gauge	EPA (ft <sup>2</sup> ) with 1.3 gust						Bolt circle (in)	Bolt size (in. x in. x in.)	Approximate ship weight (lbs.)
					80 MPH	Max. weight	90 MPH	Max. weight	100 MPH	Max. weight			
SSS 10 4C	10	4.0 x 10.0	0.1196	11	30.6	765	23.8	595	18.9	473	8--9	3/4 x 18 x 3	75
SSS 12 4C	12	4.0 x 12.0	0.1196	11	24.4	610	18.8	470	14.8	370	8--9	3/4 x 18 x 3	90
SSS 14 4C	14	4.0 x 14.0	0.1196	11	19.9	498	15.1	378	11.7	293	8--9	3/4 x 18 x 3	100
SSS 16 4C	16	4.0 x 16.0	0.1196	11	15.9	398	11.8	295	8.9	223	8--9	3/4 x 18 x 3	115
SSS 18 4C	18	4.0 x 18.0	0.1196	11	12.6	315	9.2	230	6.7	168	8--9	3/4 x 18 x 3	125
SSS 20 4C	20	4.0 x 20.0	0.1196	11	9.6	240	6.7	167	4.5	150	8--9	3/4 x 18 x 3	140
SSS 20 4G	20	4.0 x 20.0	0.1793	7	14	350	11	275	8	200	8--9	3/4 x 30 x 3	198
SSS 20 5C	20	5.0 x 20.0	0.1196	11	17.7	443	12.7	343	9.4	235	10--12	1 x 36 x 4	185
SSS 20 5G	20	5.0 x 20.0	0.1793	7	28.1	703	21.4	535	16.2	405	10--12	1 x 36 x 4	265
SSS 25 4C	25	4.0 x 25.0	0.1196	11	4.8	150	2.6	100	1	50	8--9	3/4 x 18 x 3	170
SSS 25 4G	25	4.0 x 25.0	0.1793	7	10.8	270	7.7	188	5.4	135	8--9	3/4 x 30 x 3	245
SSS 25 5C	25	5.0 x 25.0	0.1196	11	9.8	245	6.3	157	3.7	150	10--12	1 x 36 x 4	225
SSS 25 5G	25	5.0 x 25.0	0.1793	7	18.5	463	13.3	333	9.5	238	10--12	1 x 36 x 4	360
SSS 30 4G	30	4.0 x 30.0	0.1793	7	6.7	168	4.4	110	2.6	65	8--9	3/4 x 30 x 3	295
SSS 30 5C	30	5.0 x 30.0	0.1196	11	4.7	150	2	50	--	--	10--12	1 x 36 x 4	265
SSS 30 5G	30	5.0 x 30.0	0.1793	7	10.7	267	6.7	167	3.9	100	10--12	1 x 36 x 4	380
SSS 30 6G	30	6.0 x 30.0	0.1793	7	19	475	13.2	330	9	225	11--13	1 x 36 x 4	520
SSS 35 5G	35	5.0 x 35.0	0.1793	7	5.9	150	2.5	100	--	--	10--12	1 x 36 x 4	440
SSS 35 6G	35	6.0 x 35.0	0.1793	7	12.4	310	7.6	190	4.2	105	11--13	1 x 36 x 4	540
SSS 39 6G	39	6.0 x 39.0	0.1793	7	7.2	180	3	75	--	--	11--13	1 x 36 x 4	605

NOTE: \* EPA values are based ASCE 7-93 wind map. For 1/2 ft increments, add -6 to the pole height. Ex: 20-6 equals 20ft 6in.

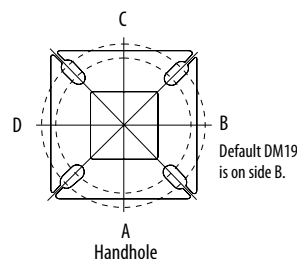
## BASE DETAIL



POLE DATA								
Shaft base size	Bolt circle A	Bolt projection B	Base diameter C	Base plate thickness	Template description	Anchor bolt description	Anchor bolt and template number	Anchor bolt description
4"C	8" - 9"	3.25" - 3.75"	8" - 8.25"	0.75"	ABTEMPLATE PJ50004	AB18-0	ABSSS-4C	3/4"x18"x3"
4"G	8" - 9"	3.38" - 3.75"	8" - 8.25"	0.875"	ABTEMPLATE PJ50004	AB30-0	ABSSS-4G	3/4"x30"x3"
5"	10" - 12"	3.5" - 4"	11"	1"	ABTEMPLATE PJ50010	AB36-0	ABSSS-5	1"x36"x4"
6"	11" - 13"	4" - 4.50"	12.5"	1"	ABTEMPLATE PJ50011	AB36-0	N/A	1"x36"x4"



## HANDHOLE ORIENTATION



## IMPORTANT INSTALLATION NOTES:

- Do not erect poles without having fixtures installed.
- Factory-supplied templates must be used when setting anchor bolts. Lithonia Lighting will not accept claim for incorrect anchorage placement due to failure to use Lithonia Lighting factory templates.
- If poles are stored outside, all protective wrapping must be removed immediately upon delivery to prevent finish damage.
- Lithonia Lighting is not responsible for the foundation design.
- Bolt circles have +/- 1/2" tolerance.

CAUTION: These specifications are intended for general purposes only. Lithonia Lighting reserves the right to change material or design, without prior notice, in a continuing effort to upgrade its products.



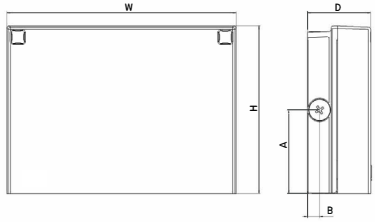
# WPX LED Wall Packs



Catalog Number
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Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications



Front View

Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1" (20.6 cm)	11.1" (28.3 cm)	3.2" (8.1 cm)	4.0" (10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7" (1.7 cm)	11.0 lbs (5.0kg)

## Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress battery options make WPX ideal for every wall mounted lighting application.

## Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

Series	Color Temperature	Voltage	Options	Finish
WPX1 LED P1	30K 3000K	MVOLT 120V - 277V	(blank) None	DDBXD Dark bronze
WPX1 LED P2	40K 4000K	347 347V <sup>3</sup>	E4WH Emergency battery backup, CEC compliant (4W, 0°C min) <sup>2</sup>	DWHXD White
WPX2 LED	50K 5000K		E14WC Emergency battery backup, CEC compliant (14W, -20°C min) <sup>2</sup>	DBLXD Black
WPX3 LED			PE Photocell <sup>3</sup>	Note : For other options, consult factory.

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

### NOTES

- All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 with 6kV surge protection. Sample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD
- Battery pack options only available on WPX1 and WPX2.
- Battery pack options not available with 347V and PE options.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution. WPX is rated for -40°C to 40°C.

### CONSTRUCTION

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection). All photocell (PE) operate on MVOLT (120V - 277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

### INSTALLATION

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx).

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



## Performance Data

### Electrical Load

Luminaire	Input Power (W)	120V	208V	240V	277V	347V
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.03
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.07
WPX2	47W	0.39	0.23	0.20	0.17	0.14
WPX3	69W	0.58	0.33	0.29	0.25	0.20

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.94	>0.92	>0.90

### Lumen Output

Luminaire	Color Temperature	Lumen Output
WPX1 LED P1	3000K	1,537
	4000K	1,568
	5000K	1,602
WPX1 LED P2	3000K	2,748
	4000K	2,912
	5000K	2,954
WPX2	3000K	5,719
	4000K	5,896
	5000K	6,201
WPX3	3000K	8,984
	4000K	9,269
	5000K	9,393

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### HID Replacement Guide

Luminaire	Equivalent HID Lamp	WPX Input Power
WPX1 LED P1	100W	11W
WPX1 LED P2	150W	24W
WPX2	250W	47W
WPX3	400W	69W

### Emergency Egress Battery Packs

The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of 90 minutes and deliver minimum initial output of 550 lumens. Both battery pack options are CEC compliant.

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0°C	4W	E4WH	WPX2 LED 40K MVOLT <b>E4WH</b> DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT <b>E14WC</b> DDBXD

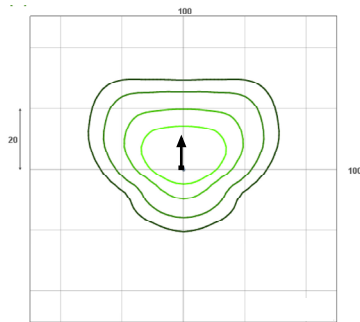
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting [WPX LED](#) homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

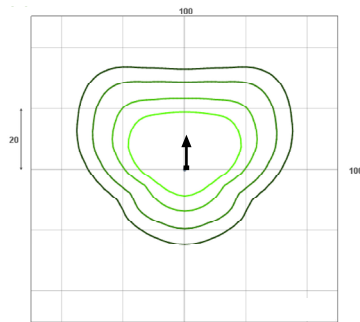
#### LEGEND

<span style="display:inline-block; width:10px; height:10px; background-color:#004a99; border:1px solid black;"></span> 0.1 fc
<span style="display:inline-block; width:10px; height:10px; background-color:#008000; border:1px solid black;"></span> 0.2 fc
<span style="display:inline-block; width:10px; height:10px; background-color:#90ee90; border:1px solid black;"></span> 0.5 fc
<span style="display:inline-block; width:10px; height:10px; background-color:#ffff00; border:1px solid black;"></span> 1.0 fc

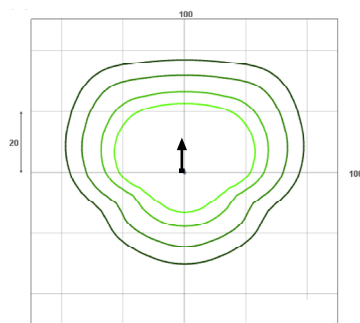
WPX1 LED P1



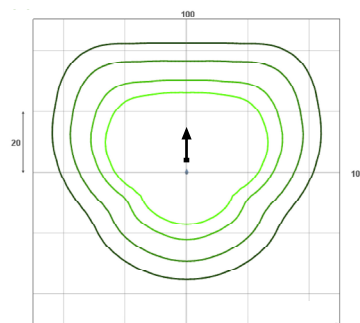
WPX1 LED P2



WPX2 LED



WPX3 LED



Mounting Height = 12 Feet.



# TWX3 LED

## LED Wall Luminaire



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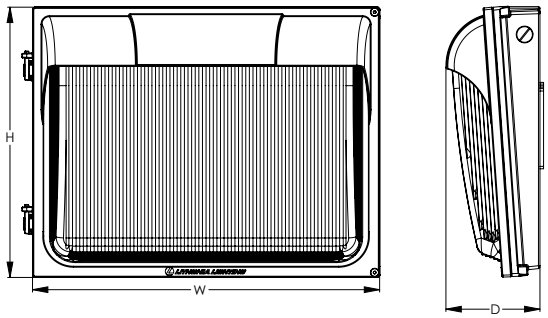
### Introduction

TWX LED wall pack family, a ground-up design that has the low initial cost customers demand while providing superior performance and a traditional form. The TWX3 LED is energy efficient, saving up to 84% in energy costs when replacing a metal halide luminaire. Offering an expected service life of more than 20 years, the TWX3 LED eliminates frequent lamp and ballast replacements associated with traditional technologies.

The Adjustable Light Output (ALO) feature allows the contractor to set the light output during installation, to a level perfectly suited for the job site. The TWX3 LED ALO luminaires can replace anything from a 100W to 400W metal halide luminaire.

### Specifications

- Depth:** 5.0"
- Height:** 14.0"
- Width:** 18.0"
- Weight:** 21 lbs (without options)



### TWX LED Family Overview

Luminaire	Voltage	Photocell	Lumens (4000K)			
			P1	P2	P3	P4
TWX1 LED	MVOLT (120-277V)	YES	1,600	2,950	--	--
TWX2 LED	MVOLT (120-277V), 347V, 480V	YES	3,250	4,400	5,250	6,850
TWX3 LED	MVOLT (120-277V), 347V	YES	8,800	10,650	12,900	13,850

### Ordering Information

**EXAMPLE: TWX3 LED ALO 40K MVOLT DBBXD**

Series	Package	Color Temperature	Voltage	Options	Finish
TWX3 LED	P1 8,800 lumens	30K 3000K	MVOLT (120-277V)	PE Photocell, Button Type	DBBXD Dark bronze
	P2 10,650 lumens	40K 4000K			347
	P3 12,900 lumens	50K 5000K	DWHXD White		
	P4 13,850 lumens		DNAXD Natural aluminum		
	ALO 2,900 - 13,850 lumens		DDBTXD Textured dark bronze		
				DBLXD Textured black	
				DWHGXD Textured White	
				DNATXD Textured natural aluminum	

### FEATURES & SPECIFICATIONS

#### INTENDED USE

The TWX3 LED is an energy-efficient, low maintenance LED wall pack for replacing up to a 400W MH fixture, providing the same footprint on the wall. TWX3 is ideal for higher mounting height applications such as industrial buildings, warehouses and schools.

#### CONSTRUCTION

Two-piece die-cast aluminum housing to optimize thermal management through conductive and convective cooling. The door is hinged on the side and can be removed for easy installation. The housing is completely sealed against moisture and environmental contaminants (IP65) and is suitable for the hose-down applications.

#### FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

#### OPTICS

The advanced optical design uses both reflector and refractor technologies that work together to create superior illumination and further throw, getting the light where it is needed. The US-made borosilicate glass refractor is specifically designed to maximize light extraction and create a fully luminous luminaire for a better nighttime look.

#### ELECTRICAL

Light engine consists of high-efficacy LEDs mounted to housing to maximize heat dissipation and promote long-life (up to L81/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%.

#### INSTALLATION

Designed for wall mounting above four feet from the ground. Housing is configured for mounting directly over a standard junction box (by others) or for surface wiring via any of three 1/2" threaded entry hubs.

#### LISTINGS

CSA certified to U.S. and Canadian standards. IP65 rated for outdoor applications. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

#### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



COMMERCIAL OUTDOOR

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TWX3 LED  
Rev. 03/02/22



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	30K (3000K, 80 CRI)		40K (4000K, 80 CRI)		50K (5000K, 80 CRI)	
		Lumens	LPW	Lumens	LPW	Lumens	LPW
P1	65W	8,450	130	8,800	135	8,800	135
P2	79W	10,200	129	10,650	135	10,650	135
P3	97W	12,300	127	12,900	133	12,900	133
P4/ALO	108W	13,250	123	13,850	128	13,850	128

### Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	65W	0.538	0.310	0.269	0.233	0.186
P2	79W	0.656	0.379	0.328	0.284	0.227
P3	97W	0.806	0.465	0.403	0.349	0.279
P4/ALO	108W	0.900	0.519	0.450	0.390	0.311

### Adjustable Lumen Output (ALO) Table

Setting	System Watts	Lumen Output	Replaces Metal Halide
8*	108W	13,850	400W
7	102W	13,250	
6	85W	11,400	
5	71W	9,900	250W
4	57W	8,200	
3	44W	6,450	150/175W
2	29W	4,500	
1	18W	2,900	100W

\* Factory default setting is #8

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

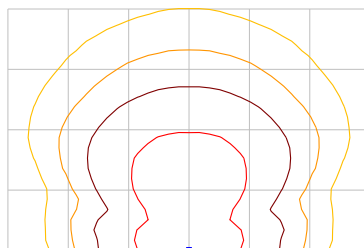
Operating Hours	0	25,000	50,000	60,000	100,000
Lumen Maintenance Factor	1.0	>0.95	>0.90	>0.88	>0.81

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting TWX LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

#### LEGEND

<span style="color: yellow;">■</span>	0.25 fc
<span style="color: orange;">■</span>	0.5 fc
<span style="color: red;">■</span>	1.0 fc
<span style="color: darkred;">■</span>	3.0 fc



TWX3 LED ALO

MH = 18ft  
Grid = 18ft x 18ft  
ISO lines = 0.25fc, 0.5fc, 1.0fc, 3.0fc

**SPECIFICATIONS**

PROJ.: CHABAD OF CHESTERFIELD

TYPE: CYLINDER

**Certifications/Qualifications**

Class 2	Yes
Title 24 Compliant	Yes
	<a href="http://www.kichler.com/warranty">www.kichler.com/warranty</a>

**Dimensions**

Base Backplate	5.00 X 5.00
Extension	6.50"
Weight	3.08 LBS
Height from center of Wall opening (Spec Sheet)	6.25"
Height	12.00"
Width	5.00"

**Electrical**

Input Voltage	Dual (120/140)V
---------------	-----------------

**Light Source**

Delivered Lumens	550
Expected Life Span (Hours)	40000
Lamp Included	Integrated
Light Source	LED
Max or Nominal Watt	15W
# of Bulbs/LED Modules	1

**Mounting/Installation**

Interior/Exterior	Exterior
Location Rating	Wet
Mounting Style	Wall Mount

**Photometrics**

Color Rendering Index	90
Color Temperature Range	3000
Kelvin Temperature	3000K

**FIXTURE ATTRIBUTES**


**Housing**


Primary Material	ALUMINUM
------------------	----------

**Product/Ordering Information**

SKU	11251AZT30
Finish	Textured Architectural Bronze
Style	Contemporary
UPC	783927453097

**Finish Options**

 Textured Architectural Bronze

 Textured Black



SITE DEVELOPMENT PLAN

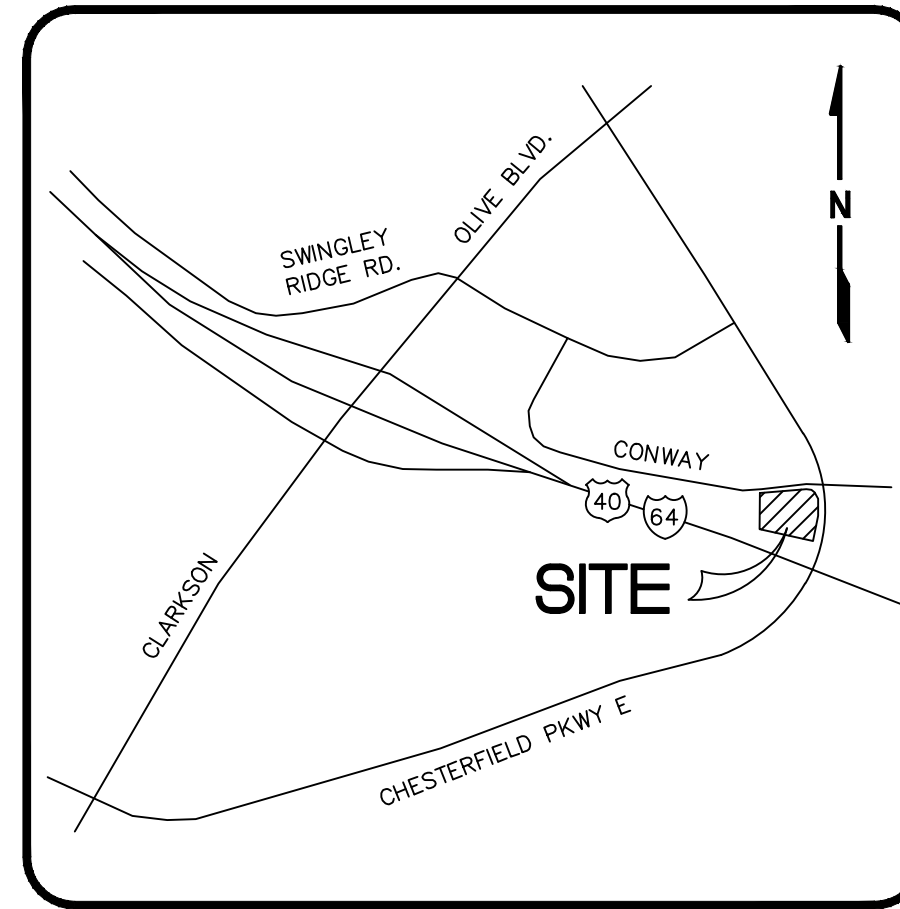
# Chabad of Chesterfield

CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

**LEGEND**

DESCRIPTION	SYMBOL
EXISTING MAJOR CONTOUR	---500---
EXISTING MINOR CONTOUR	---502---
PROPOSED MAJOR CONTOUR	---504---
PROPOSED MINOR CONTOUR	---502---
EXISTING SPOT ELEVATION	+502.00
PROPOSED SPOT ELEVATION	+502.00
PROPOSED/EXISTING ELEVATIONS	P-502.0 E-502.0
EXISTING SANITARY SEWER	—○—
EXISTING STORM SEWER	—□—
PROPOSED SANITARY SEWER	—●—
PROPOSED STORM SEWER	—■—
EXISTING WATERLINE	—W—
EXISTING FIRE HYDRANT	⊙
EXISTING GAS LINE	—GAS—
EXISTING OVERHEAD UTILITY	—OW—
DOWNSPOUT	○DS
USE IN PLACE	(U.I.P.)
ADJUST TO GRADE	(A.T.G.)
TO BE REMOVED	(T.B.R.)
TO BE REMOVED AND REPLACED	(T.B.R.&R.)
TO BE REMOVED AND RELOCATED	(T.B.R.&REL.)

FF = FINISHED FLOOR ELEVATION  
 TF = TOP OF FOUNDATION  
 BF = BASEMENT FLOOR ELEVATION  
 GF = GARAGE FLOOR ELEVATION  
 DS = ROOF DOWNSPOUT  
 CO = CLEAN OUT  
 TW = FINISH GRADE AT TOP OF WALL  
 BW = FINISH GRADE AT BOTTOM OF WALL



**LOCATION MAP**  
N.T.S.

**PROPERTY DATA**

LOCATOR NO. : 18S310557  
 ADDRESS : 15310 CONWAY ROAD  
 CHESTERFIELD, MO 63017  
 OWNER : CHABAD OF CHESTERFIELD INC.  
 AREA OF TRACT : 64,853 S.F. = 1.49 Ac.±  
 PRESENT ZONING : PC - PLANNED COMMERCIAL  
 PRESENT USAGE : VACANT  
 PROPOSED USAGE : PLACE OF WORSHIP  
 SCHOOL DISTRICT : PARKWAY  
 FIRE DISTRICT : MONARCH  
 WATERSHED(S) : MISSOURI RIVER  
 FIRM PANEL : 29189C0170K  
 UTILITIES : MISSOURI-AMERICAN WATER CO.  
 METRO, ST. LOUIS SEWER DIST.  
 LACLEDE GAS COMPANY  
 AT&T TELEPHONE COMPANY  
 AMEREN UE

**BUILDING SETBACK REQUIREMENTS**

CONWAY ROAD: 25'  
 WESTERN PROP. LINE: 5'  
 INTERSTATE 64: 10'  
 CHESTERFIELD PKWY E.: 60'

**FLOOR AREA RATIO (FAR)**

MAXIMUM ALLOWABLE = 0.55  
 PROPOSED: 15,023 S.F. BUILDING / 64,853 S.F. = 0.23

**OPEN SPACE**

BUILDING AREA = 15,023 S.F.  
 PARKING AND DRIVE PAVEMENT = 22,513 S.F.  
 REMAINING OPEN SPACE = 27,317 S.F.  
 27,317 / 64,853 S.F. TOTAL = 42.1% OPEN SPACE (40% MINIMUM REQUIRED)

**PARKING SETBACK REQUIREMENTS**

CONWAY ROAD: 10'  
 WESTERN PROP. LINE: 5'  
 INTERSTATE 64: 5'  
 CHESTERFIELD PKWY E.: 25'

**LANDSCAPE BUFFER**

10' ALONG CONWAY ROAD  
 25' ALONG CHESTERFIELD PARKWAY EAST  
 5' ALONG INTERSTATE 64

**PARKING CALCULATIONS**

CHURCH AND OTHER PLACE OF WORSHIP:  
 MIN. PARKING REQUIRED = 1 SPACE PER 4 SEATS IN THE CHAPEL OR ASSEMBLY AREA.  
 PARKING SPACES PROVIDED = 58 SPACES (INCLUDES 2 ACCESSIBLE SPACES)  
 MAXIMUM NUMBER OF SEATS PERMITTED = 232

**PRELIMINARY EARTHWORK QUANTITIES**

ESTIMATED CUT QUANTITY: 400 C.Y.  
 ESTIMATED FILL QUANTITY: 17,000 C.Y.  
 ESTIMATED HAUL-ON OF MATERIAL = 16,600 C.Y.

CHABAD OF CHESTERFIELD, INC., THE OWNER(S) OF THE PROPERTY SHOWN ON THIS PLAN FOR AND IN CONSIDERATION OF BEING GRANTED APPROVAL OF SAID PLAN TO DEVELOP PROPERTY UNDER THE PROVISIONS OF SECTION 03. \_\_\_\_\_ OF CITY OF CHESTERFIELD UNIFIED DEVELOPMENT CODE, DO HEREBY AGREE AND DECLARE THAT SAID PROPERTY FROM THE DATE OF RECORDING THIS PLAN SHALL BE DEVELOPED ONLY AS SHOWN THEREON, UNLESS SAID PLAN IS AMENDED BY THE CITY OF CHESTERFIELD OR VOIDED OR VACATED BY ORDER OF ORDINANCE OF THE CITY OF CHESTERFIELD COUNCIL.

STATE OF MISSOURI )  
 ) SS.  
 COUNTY OF ST. LOUIS )  
 ON THIS \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_, BEFORE ME PERSONALLY APPEARED \_\_\_\_\_, TO ME KNOWN, WHO, BEING BY ME SWORN IN, DID SAY

THAT HE/SHE IS THE \_\_\_\_\_ OF CHABAD OF CHESTERFIELD, INC., A CORPORATION IN THE STATE OF MISSOURI, AND THAT THE SEAL AFFIXED TO THE FOREGOING INSTRUMENTS IS THE CORPORATE SEAL OF SAID CORPORATION, AND THAT SAID INSTRUMENT WAS SIGNED ON BEHALF OF SAID CORPORATION BY AUTHORITY OF ITS MEMBERS, AND THE SAID \_\_\_\_\_ ACKNOWLEDGED SAID INSTRUMENT TO BE THE FREE ACT AND DEED OF SAID CORPORATION.

IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND AFFIXED MY NOTARIAL SEAL AT MY OFFICE IN ST. LOUIS COUNTY, MISSOURI, THE DAY AND YEAR LAST ABOVE WRITTEN.

MY TERM EXPIRES \_\_\_\_\_

(NOTARY PUBLIC)

THIS SITE DEVELOPMENT PLAN WAS APPROVED BY THE CITY OF CHESTERFIELD PLANNING COMMISSION AND DULY VERIFIED ON THE \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_ BY THE CHAIRPERSON OF SAID COMMISSION, AUTHORIZING THE RECORDING OF THIS SITE DEVELOPMENT PLAN PURSUANT TO CHESTERFIELD ORDINANCE NUMBER 200, AS ATTESTED TO BY THE DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES AND THE CITY CLERK.

JUSTIN WYSE, AICP, PTP  
 DIRECTOR OF PLANNING AND DEVELOPMENT SERVICES  
 CITY OF CHESTERFIELD, MISSOURI

VICKIE MCGOWND,  
 CITY CLERK  
 CITY OF CHESTERFIELD, MISSOURI

**PRELIMINARY PLAN DISCLAIMER**

THIS PLAN WAS PREPARED USING RECORD/AVAILABLE SURVEYS, PROPERTY DESCRIPTIONS, TOPOGRAPHIC INFORMATION, UTILITY MAPS/MARKINGS, AERIAL PHOTOS, ETC. AS SUCH, THE DESIGN OF IMPROVEMENTS SHOWN HEREON IS TO BE CONSIDERED STRICTLY PRELIMINARY AND SUBJECT TO REVISION AS A RESULT OF ACTUAL BOUNDARY SURVEYS, FINAL ENGINEERING DESIGN AND AGENCY(S) REVIEW/APPROVAL.

I HEREBY CERTIFY THAT I HAVE PREPARED OR DIRECTED THE PREPARATION OF THIS PLAN BASED ON THIS INFORMATION. IT IS TO BE CONSIDERED STRICTLY PRELIMINARY, AND IS NOT TO BE USED FOR CONSTRUCTION.

5/2/22  
 MICHAEL CLAY VANCE, P.E., E-25616  
 VANCE ENGINEERING, INC.

Chabad of Chesterfield  
 15310 Conway Road  
 Chesterfield, MO 63017

Vance Engineering, Inc.  
 10537 Lackland Road  
 St. Louis, MO 63114  
 P: 314.427.1800

15310 CONWAY ROAD  
 SITE DEVELOPMENT PLAN

PRELIMINARY

MICHAEL CLAY VANCE, P.E.  
 E-25616

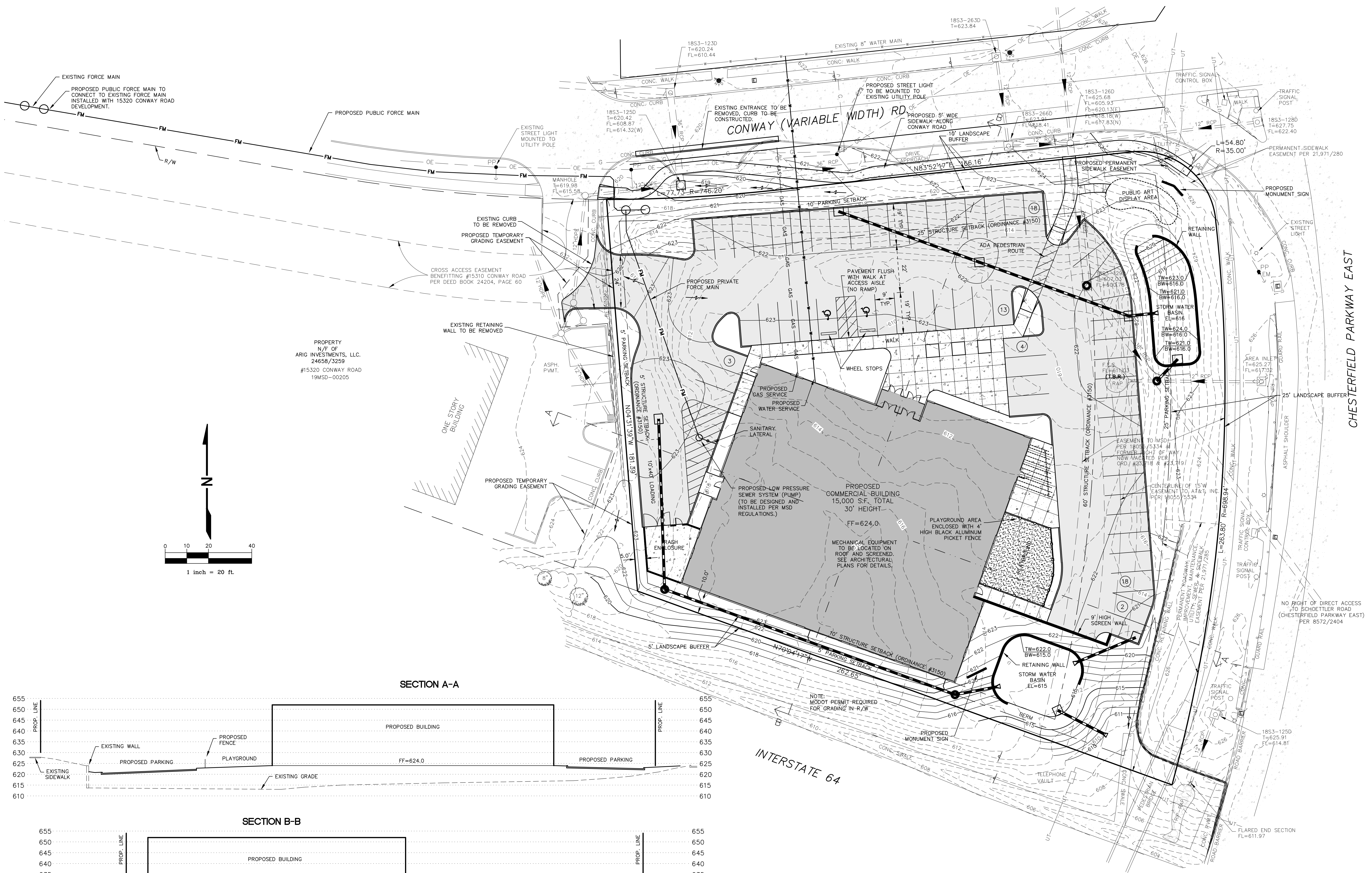
REVISED

03/21/22 CITY

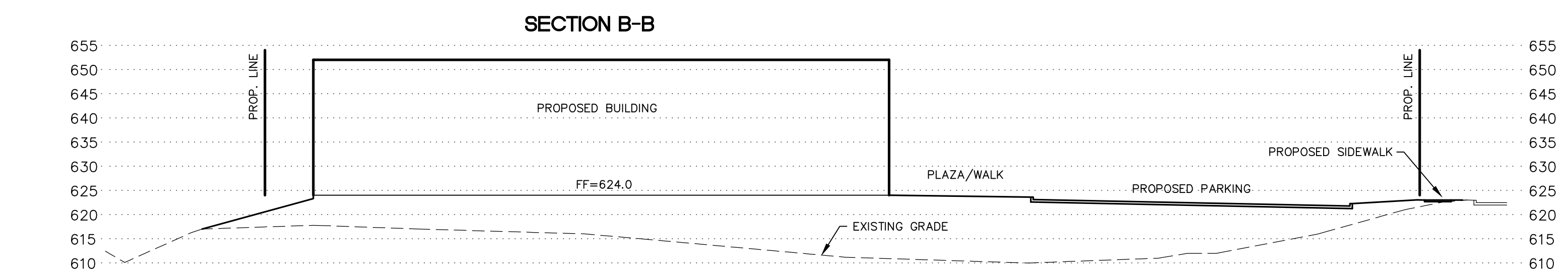
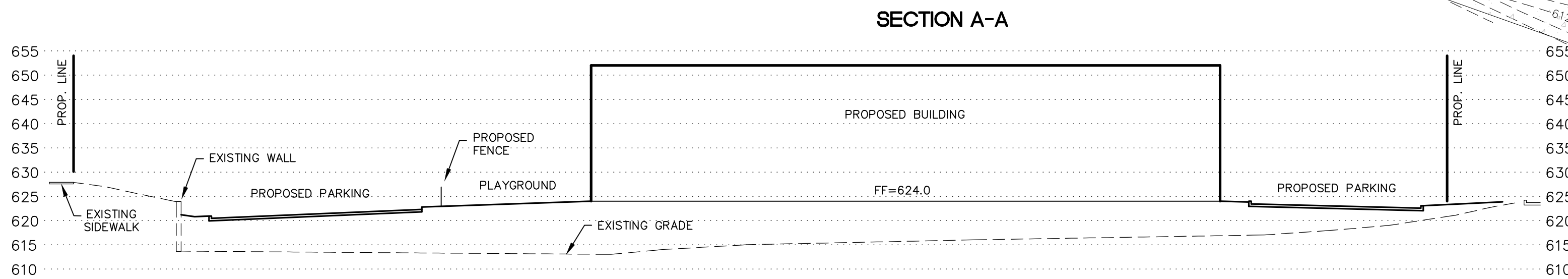
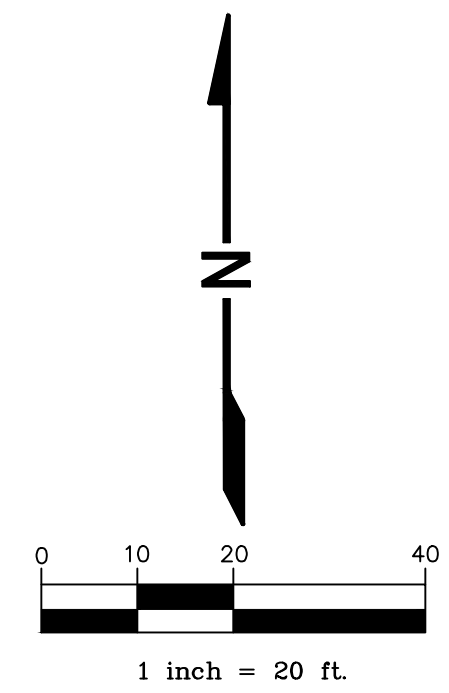
05/02/22 CITY

20103  
 11/09/21  
 1 / 2  
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PROPERTY  
N/F OF  
ARIG INVESTMENTS, LLC.  
24658/3259  
#15320 CONWAY ROAD  
19MSD-00205



**SITE CROSS SECTIONS**  
SCALE: 1" = 20' (HORIZ. & VERT.)

THIS WORK PREPARED BY OR UNDER THE AUTHORITY OF THE ENGINEER, AND IS AUTHENTICATED BY HIS SEAL AND DATED ONLY, INCLUDING GRADING, DRAINAGE, AND EROSION CONTROL. THE ENGINEER'S RESPONSIBILITY IS FOR THE DESIGN AND CONSTRUCTION OF THE STRUCTURAL ELEMENTS (INCLUDING RETAINING WALLS, STORM WATER BASINS, AND OTHER STRUCTURES) AND FOR THE RECOMMENDATIONS CONCERNING THE METHODS AND SCHEDULING, ANY AND ALL REVISIONS, AND THE DISTRIBUTION OF THIS REPORT THAT DO NOT BEAR THE SEAL OR SIGNATURE OF THE ENGINEER.

**Chabad of Chesterfield**  
15310 Conway Road  
Chesterfield, MO 63017

**Vance Engineering, Inc.**  
10537 Lackland Road  
St. Louis, MO 63114  
P: 314.427.1800

**15310 CONWAY ROAD**  
**SITE DEVELOPMENT PLAN**

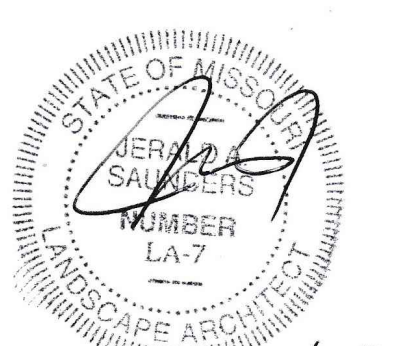
PRELIMINARY

5/2/22  
MICHAEL CLAY VANCE, P.E.  
E-25616

REVISED

03/21/22 CITY  
05/02/22 CITY

**20103**  
11/09/21  
**2 / 2**  
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Jerald Saunders - Landscape Architect  
MO License # LA-1001

Consultants:

**Chabad of Chesterfield**  
15310 Conway Road  
Chesterfield, Missouri

Revisions:

Date	Description	No.
3/22/22	City Comments	1
4/29/22	City Comments	2

Drawn: RS  
Checked: RS

**LOOMIS ASSOCIATES**  
landscape architects + planners  
750 spirit 40 park drive, chesterfield, missouri 63005  
t. 636-519-8668  
www.loomis-associates.com

Loomis Associates Inc.  
Missouri State Certificate of Authority # LAC#0000191

Sheet Title:	Landscape Plan
Sheet No.:	L1.01
Date:	12/17/21
Job #:	1046.001

PLANTING SCHEDULE								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	SIZE / GROWTH RATE	SLOW / MEDIUM GROWTH RATE %	
<b>CANOPY-SHADE TREES</b>								
A	2	Zelkova serrata 'Village Green'	Village Green Zelkova	2.5" cal.	B&B	Lg/Fast	4.9 %	
B	2	Ulmus 'Frontier'	Frontier Elm	2.5" cal.	B&B	Lg/Fast		
C	2	Quercus rubra	Red Oak	2.5" cal.	B&B	Lg/M-Fast		
D	2	Acer rubrum 'October Glory'	October Glory Red Maple	2.5" cal.	B&B	Lg/Fast		
E	2	Carpinus betulus	Common Hornbeam	2.5" cal.	B&B	Med/Slow-M	4.9 %	
F	3	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	2.5" cal.	B&B	Lg/Slow-M	7.3 %	
G	3	Gleditsia triacanthos f. inermis 'Skycole'	Skyline Honeylocust	2.5" cal.	B&B	Lg/Fast		
<b>UNDERSTORY-ORNAMENTAL TREES</b>								
J	2	Amelanchier x grand. 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5" cal.	B&B	Med/Slow-M	4.9 %	
K	3	Chionanthus virginicus	Fringetree	2.5" cal.	B&B	Small/Slow	7.3 %	
<b>EVERGREEN TREES</b>								
P	5	Picea abies	Norway Spruce	6' h.	B&B	Lg/Med		
Q	10	Juniperus chinensis 'Keterleeri'	Keteleeri Juniper	6' h.	B&B	Small/Slow-M	24.4 %	
R	5	Thuja 'Green Giant'	Green Giant Arborvitae	6' h.	B&B	Lg/Fast		
							<b>Total</b>	<b>53.7 %</b>
<b>SHRUBS-GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER</b>								
a	14	Buxus 'Green Velvet'	Green Velvet Boxwood	18"		Cont.		
b	10	Buxus x 'Green Mountain'	Green Mountain Boxwood	18"		Cont.		
c	42	Syringa x 'Penda'	Bloomerang Purple Lilac	18"		Cont.		
d	16	Invincibelle Limetta Smooth Hydrangea	Invincibelle Limetta Smooth Hydrangea	18"		Cont.		
e	10	Hydrangea paniculata 'ILVOBO'	Bobo Panicle Hydrangea	18"		Cont.		
f	20	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	18"		Cont.		
g	26	Spiraea media 'SMSMBK'	Double Play Blue Kazoo Spirea	18"		Cont.		
h	12	Caryopteris x clandonensis 'Janice'	Lil Miss Sunshine Bluebeard	18"		Cont.		
j	7	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	18"		Cont.		
k	34	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.		Cont.		
m	341	Iberis sempervirens	Candytuft	1 qt.		12" o.c.		
n	75	Sedum spurium	Tricolor Stonecrop	2" c.p.		12" o.c.		
p	3	Viburnum carlesii	Koreanspice Viburnum	24"		Cont.		
							<b>Total</b>	<b>47.1 %</b>

PLANTING SCHEDULE - MITIGATION								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	SIZE / GROWTH RATE	SLOW / MEDIUM GROWTH RATE %	
<b>CANOPY-SHADE TREES</b>								
AA	1	Zelkova serrata 'Village Green'	Village Green Zelkova	2.5" cal.	B&B	Lg/Fast	5.9 %	
CC	1	Quercus rubra	Red Oak	2.5" cal.	B&B	Lg/M-Fast		
DD	2	Acer rubrum 'October Glory'	October Glory Red Maple	2.5" cal.	B&B	Lg/Fast		
EE	1	Carpinus betulus	Common Hornbeam	2.5" cal.	B&B	Med/Slow-M	5.9 %	
<b>UNDERSTORY-ORNAMENTAL TREES</b>								
KK	1	Chionanthus virginicus	Fringetree (single stem)	2.5" cal.	B&B	Small/Slow	5.9 %	
<b>EVERGREEN TREES</b>								
PP	3	Picea abies	Norway Spruce	6' h.	B&B	Lg/Med		
RR	3	Thuja 'Green Giant'	Green Giant Arborvitae	6' h.	B&B	Lg/Fast		
SS	5	Juniperus virginiana	Juniper	6' h.	B&B	Med/Med	29.4 %	
							<b>Total</b>	<b>47.1 %</b>

**Mitigation:**

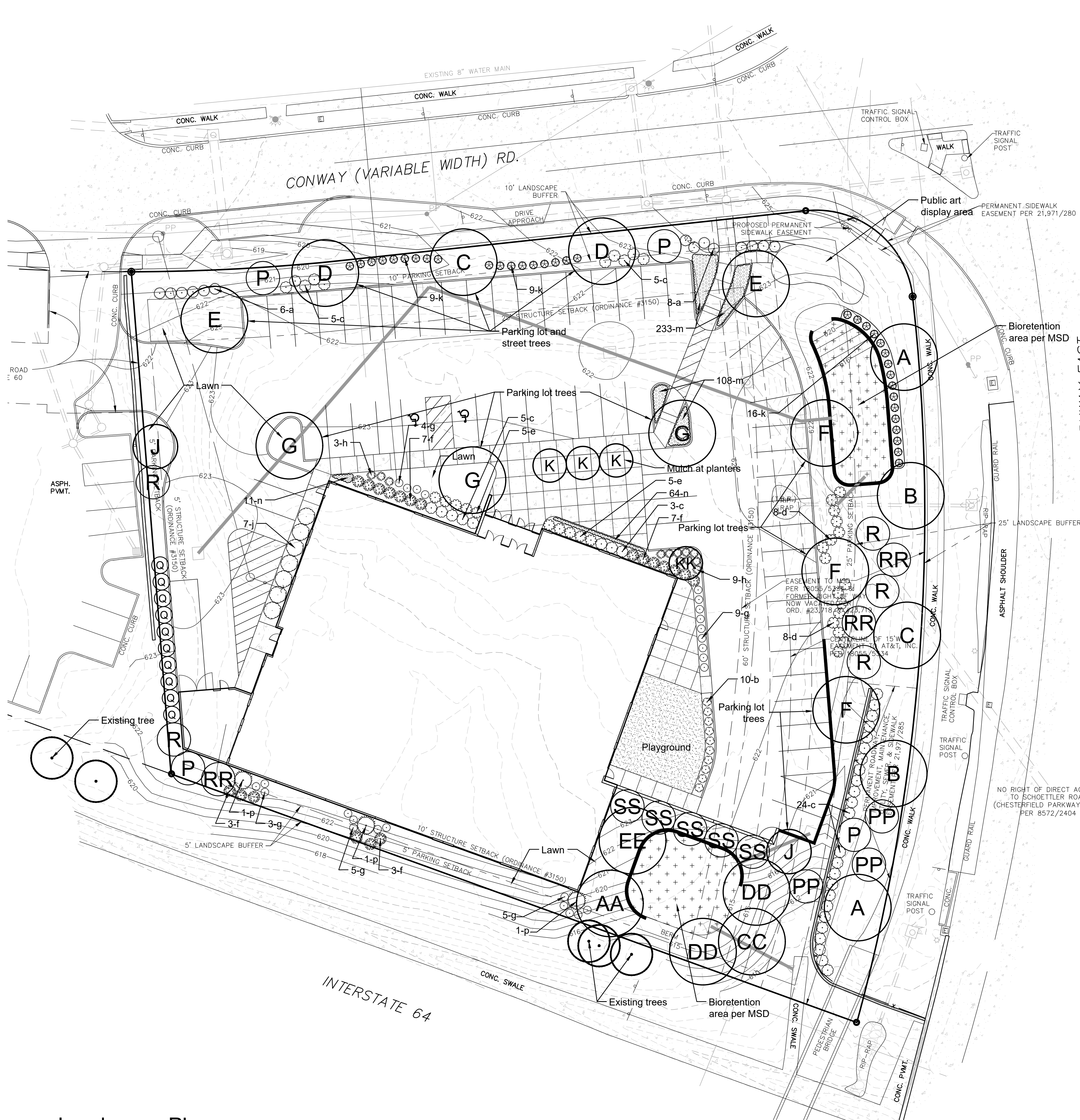
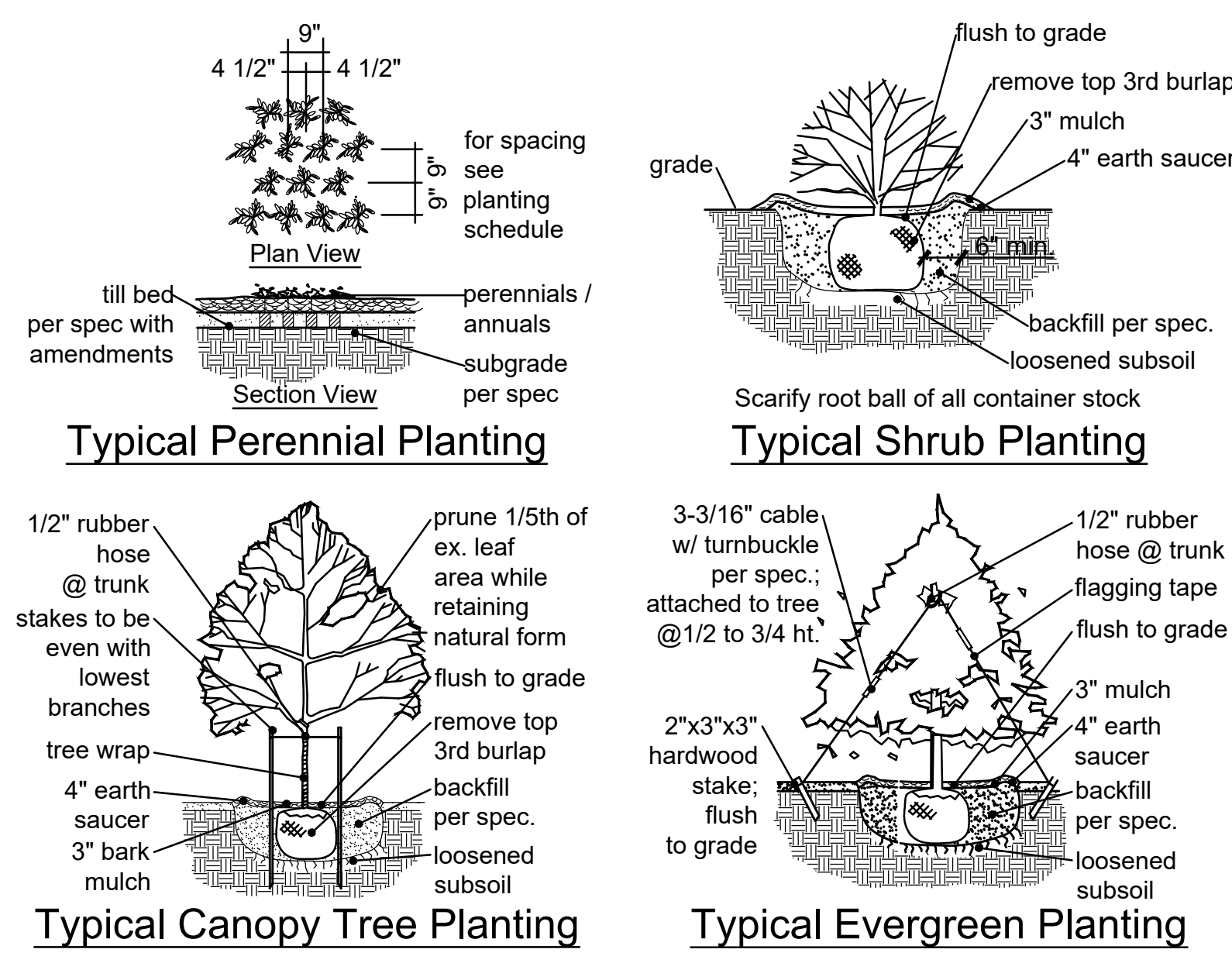
**30% Total Existing Tree Canopy Area Required To Be Preserved** = 6,304 s.f. (0.14 acres)

**Total Tree Canopy Area Required For Mitigation** = 6,304 s.f. - 324 s.f. preserved tree canopy = 5,980 s.f. tree canopy required for mitigation (10 large trees, 6 medium trees, and 1 small tree)

Ultimate Tree Canopy area values for planted trees per City of Chesterfield Tree Preservation and Landscape Requirements (P.Z. 25-2008)

a. Large Tree = 400 sq. ft.  
b. Medium Tree = 300 sq. ft.  
c. Small Tree = 200 sq. ft.

Open Space: 37.6 %



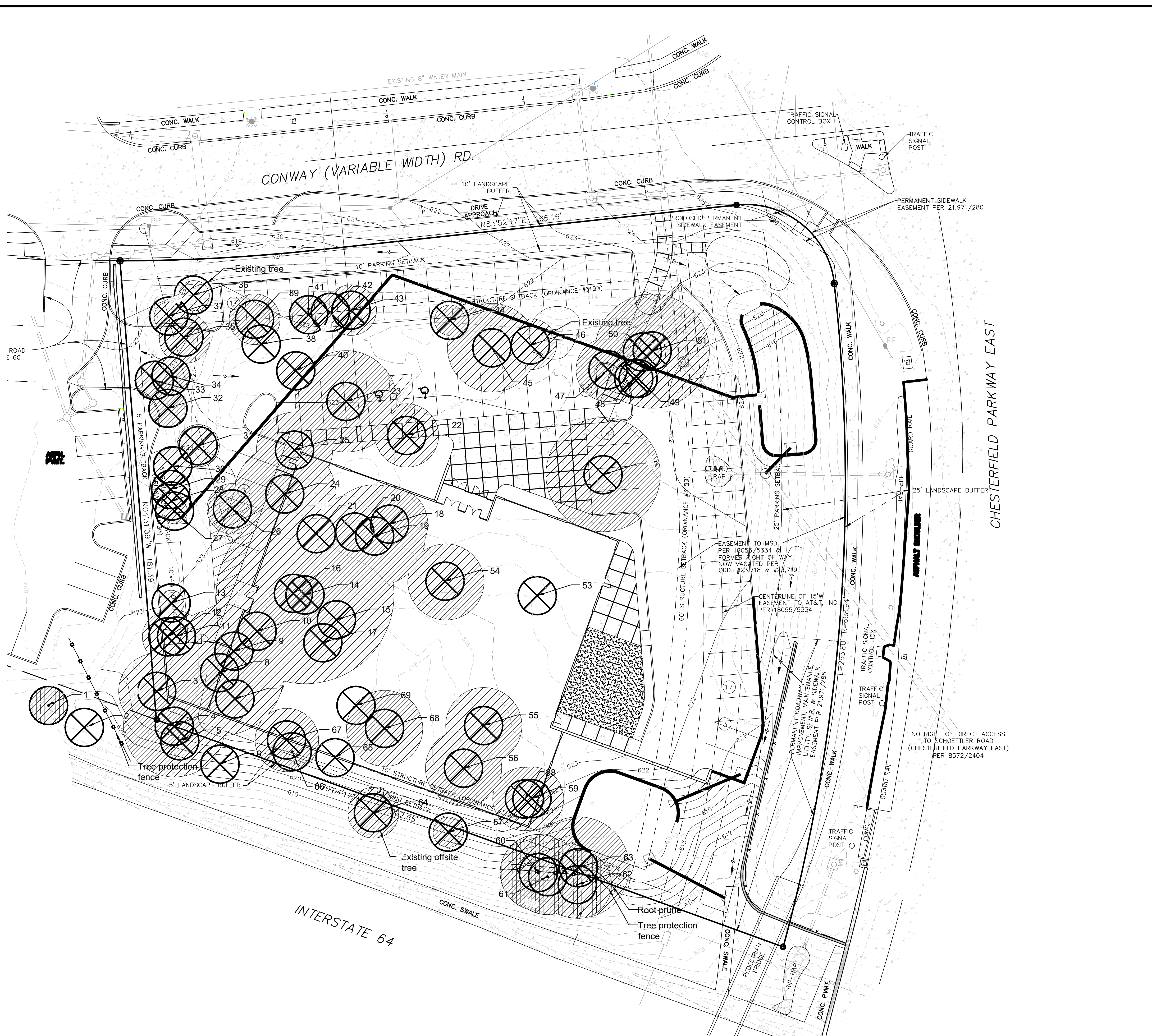
**Landscape Plan**  
SCALE 1"=20'

**General Notes:**

- All new landscape shall be irrigated with an automatic underground sprinkler system per the City of Chesterfield Unified Code Section 04-02.
- No proposed street trees shall be planted closer than three (3) feet to any curb per UDC.
- No proposed street trees shall be planted closer than twenty-five (25) feet of streetlights, street signs, and intersections per UDC.
- No street trees shall be planted within ten (10) feet of street inlets or manholes per UDC.

**Landscape Notes:**

- All mulch to be double ground bark mulch.
- Sod lawn as noted; see 'lawn' notes on plan for sodded lawn locations; Sodded lawn shall be turf-type Tall Fescue Grass or approved equivalent.
- Topsoil in all disturbed lawn areas at 6" depth.
- Soil mix in all shrub beds at 8" depth.
- Bed edges to be spade cut.



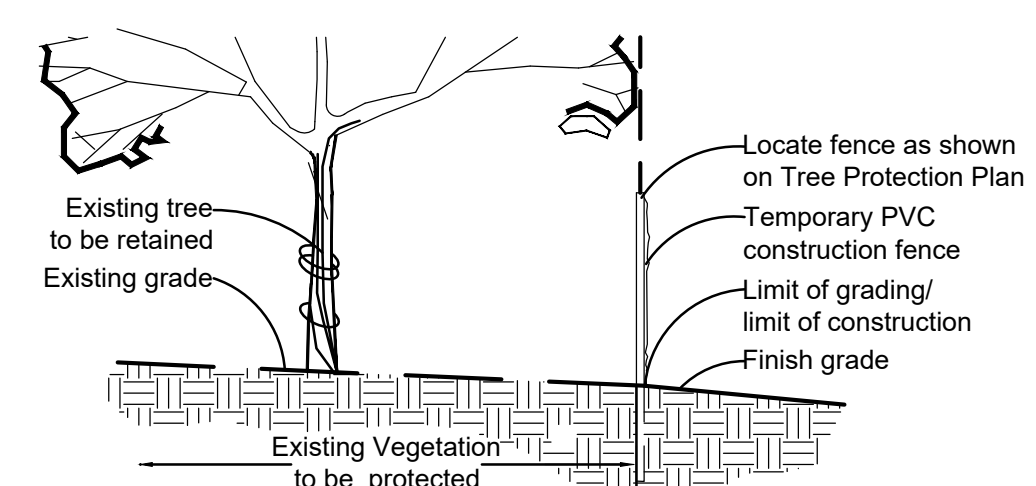
ID	Tree Name	DBH	Canopy Diam.	Condition	Comment	Preserved	To Be Removed
1	Cottonwood	8	10	Fair	Offsite-ROW	x	x
2	Dead	12	8	Dead	Offsite-ROW		x
3	Ash	10	30	Fair	Basal Damage		x
4	Elm	24	40	Fair	Offsite-ROW-Deadwood		x
5	Elm	10	15	Fair	Offsite-ROW		x
6	Elm	18	20	Dead	Offsite-ROW		x
7	Elm	10	25	Fair			x
8	Ash	24	50	Fair	Broken Limbs		x
9	Elm	15	40	Poor			x
10	Ash	14	30	Fair			x
11	Elm	6	20	Fair			x
12	Hackberry	10	20	Fair	Damage		x
13	Elm	10	10	Poor	Leaning		x
14	Ash	18	70	Poor	Large Deadwood		x
15	Elm	14	30	Fair			x
16	Elm	24	30	Poor			x
17	Ailanthus	12	30	Fair	Trunk damage		x
18	Sassafras	15	30	Poor	Leaning, sprouts		x
19	Hackberry	16	40	Fair	Leaning		x
20	Sassafras	14	30	Fair	Trunk damage		x
21	Elm	12	30	Fair			x
22	Boxelder	18	25	Poor	Severe damage		x
23	Ash	20	40	Fair			x
24	Hackberry	15	40	Fair			x
25	Elm	25	30	Fair			x
26	Hackberry	8	20	Fair			x
27	Elm	8	10	Poor			x
28	Elm	6	8	Poor			x
29	Dead	12	0	Dead	Dead		x
30	Elm	8	15	Poor			x
31	Hackberry	8	15	Fair			x
32	Hackberry	8	15	Good			x
33	Ash	10	15	Fair			x
34	Elm	6	15	Fair			x
35	Sassafras	12	20	Poor			x
36	Elm	6	12	Fair			x
37	Ailanthus	8	20	Fair			x
38	Cottonwood	40	70	Dead	Dead		x
39	Elm	6	20	Fair			x
40	Cottonwood	8	15	Poor			x
41	Elm	5	15	Poor			x
42	Elm	6	15	Fair			x
43	Elm	6	20	Poor			x
44	Elm	8	12	Fair			x
45	Sycamore	24	35	Good	Twin Trunk		x
46	Elm	8	20	Fair			x
47	Silver Maple	10	25	Fair	Multistem		x
48	Elm	11	20	Fair			x
49	Elm	8	20	Fair			x
50	Cottonwood	12	30	Fair	Twin Trunk		x
51	Cottonwood	20	45	Fair			x
52	Magnolia	25	45	Fair	Twin, Trunk and Limb damage		x
53	Silver Maple	30	0	Dead	Dead		x
54	Elm	14	30	Fair			x
55	Ash	12	30	Fair	Triple Trunk		x
56	Black Cherry	14	30	Fair			x
57	Black Cherry	14	12	Fair	Offsite-ROW		x
58	Cedar	14	25	Fair			x
59	Cedar	14	25	Fair			x
60	Elm	12	30	Fair	Offsite-ROW	x	
61	Elm	12	30	Fair	Offsite-ROW	x	
62	Locust	8	12	Fair	Offsite-ROW	x	
63	Elm	24	40	Fair	Twin Trunk		x
64	Elm	10	20	Fair	Offsite-ROW		x
65	Dead	20	0	Dead	Dead		x
66	Ash	12	25	Fair			x
67	Elm	12	25	Fair			x
68	Elm	14	30	Fair			x
69	Black Cherry	14	0	Dead	Dead		x

**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.

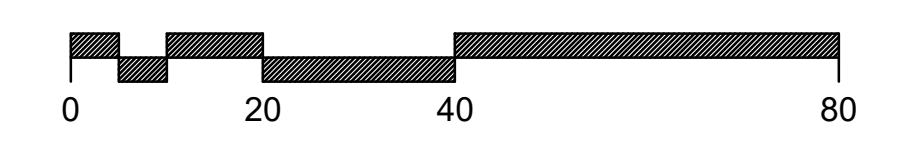
**Tree Protection Action Key Sequence:**

- 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**

**Tree Preservation Plan**  
SCALE 1"=20'



<b>Total Site Area</b>	=	64,853 s.f. (1.49 acres)	<b>Existing Tree Canopy Area To Be Removed</b>	=	20,779 s.f. (0.48 acres) (98.5 %)
<b>Total Existing Tree Canopy Area</b>	=	21,013 s.f. (0.48 acres)	<b>Existing Tree Canopy Area To Be Preserved</b>	=	324 s.f. (0.01 acres) (1.5 %)

	<b>Existing Tree Canopy Area</b>
	<b>Existing Tree Canopy Area To Be Preserved</b>



Jerald Saunders - Landscape Architect  
MO License # LA-007

Consultants:

**Chabad of Chesterfield**  
15310 Conway Road  
Chesterfield, Missouri

Revisions:

Date	Description	No.
3/22/22	City Comments	1

Drawn: RS  
Checked: RS

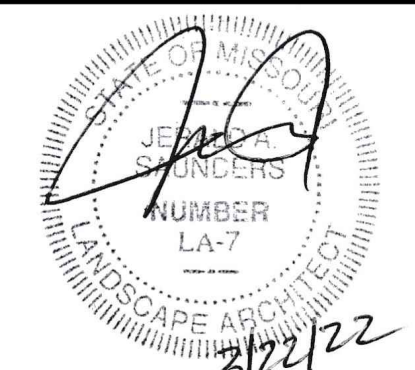


Sheet Title: Tree Preservation Plan

Sheet No: **TPP**

Date: 12/17/21  
Job #: 1046.001

Tree Preservation Plan Prepared under direction of:  
Brian Bage  
Certified Arborist MW-5033A



Jerald Saunders - Landscape Architect  
MO License # LA-007

Consultants:

# Chabad of Chesterfield

15310 Conway Road  
Chesterfield, Missouri

ID	Tree Name	DBH	Canopy Diam.	Condition Rating	Comment
1	Cottonwood	8	10	Fair	Offsite-ROW
2	Dead	12	8	Dead	Offsite-ROW
3	Ash	10	30	Fair	Basal Damage Offsite-ROW
4	Elm	24	40	Fair	Deadwood Offsite-ROW
5	Elm	10	15	Fair	Offsite-ROW
6	Elm	18	20	Dead	Offsite-ROW
7	Elm	10	25	Fair	
8	Ash	24	50	Fair	Broken Limbs
9	Elm	15	40	Poor	
10	Ash	14	30	Fair	
11	Elm	6	20	Fair	
12	Hackberry	10	20	Fair	Damage
13	Elm	10	10	Poor	Leaning
14	Ash	18	70	Poor	Large Deadwood
15	Elm	14	30	Fair	
16	Elm	24	30	Poor	
17	Ailanthus	12	30	Fair	Trunk damage
18	Sassafras	15	30	Poor	Leaning, sprouts
19	Hackberry	16	40	Fair	Leaning
20	Sassafras	14	30	Fair	Trunk damage
21	Elm	12	30	Fair	
22	Bokelder	18	25	Poor	Severe damage
23	Ash	20	40	Fair	
24	Hackberry	15	40	Fair	
25	Elm	25	30	Fair	
26	Hackberry	8	20	Fair	
27	Elm	8	10	Poor	
28	Elm	6	8	Poor	
29	Dead	12	0	Dead	Dead
30	Elm	8	15	Poor	
31	Hackberry	8	15	Fair	
32	Hackberry	8	15	Good	
33	Ash	10	15	Fair	
34	Elm	6	15	Fair	
35	Sassafras	12	20	Poor	
36	Elm	6	12	Fair	
37	Ailanthus	8	20	Fair	
38	Cottonwood	40	70	Dead	Dead
39	Elm	6	20	Fair	
40	Cottonwood	8	15	Poor	
41	Elm	5	15	Poor	
42	Elm	6	15	Fair	
43	Elm	6	20	Poor	
44	Elm	8	12	Fair	
45	Sycamore	24	35	Good	Twin Trunk
46	Elm	8	20	Fair	
47	Silver Maple	10	25	Fair	Multistem
48	Elm	11	20	Fair	
49	Elm	8	20	Fair	
50	Cottonwood	12	30	Fair	Twin Trunk
51	Cottonwood	20	45	Fair	
52	Magnolia	25	45	Fair	Twin, Trunk and Limb damage
53	Silver Maple	30	0	Dead	Dead
54	Elm	14	30	Fair	
55	Ash	12	30	Fair	Triple Trunk
56	Black Cherry	14	30	Fair	
57	Black Cherry	14	12	Fair	Offsite-ROW
58	Cedar	14	25	Fair	
59	Cedar	14	25	Fair	
60	Elm	12	30	Fair	Offsite-ROW
61	Elm	12	30	Fair	Offsite-ROW
62	Locust	8	12	Fair	Offsite-ROW
63	Elm	24	40	Fair	Twin Trunk
64	Elm	10	20	Fair	Offsite-ROW
65	Dead	20	0	Dead	Dead
66	Ash	12	25	Fair	
67	Elm	12	25	Fair	
68	Elm	14	30	Fair	
69	Black Cherry	14	0	Dead	Dead

Revisions:

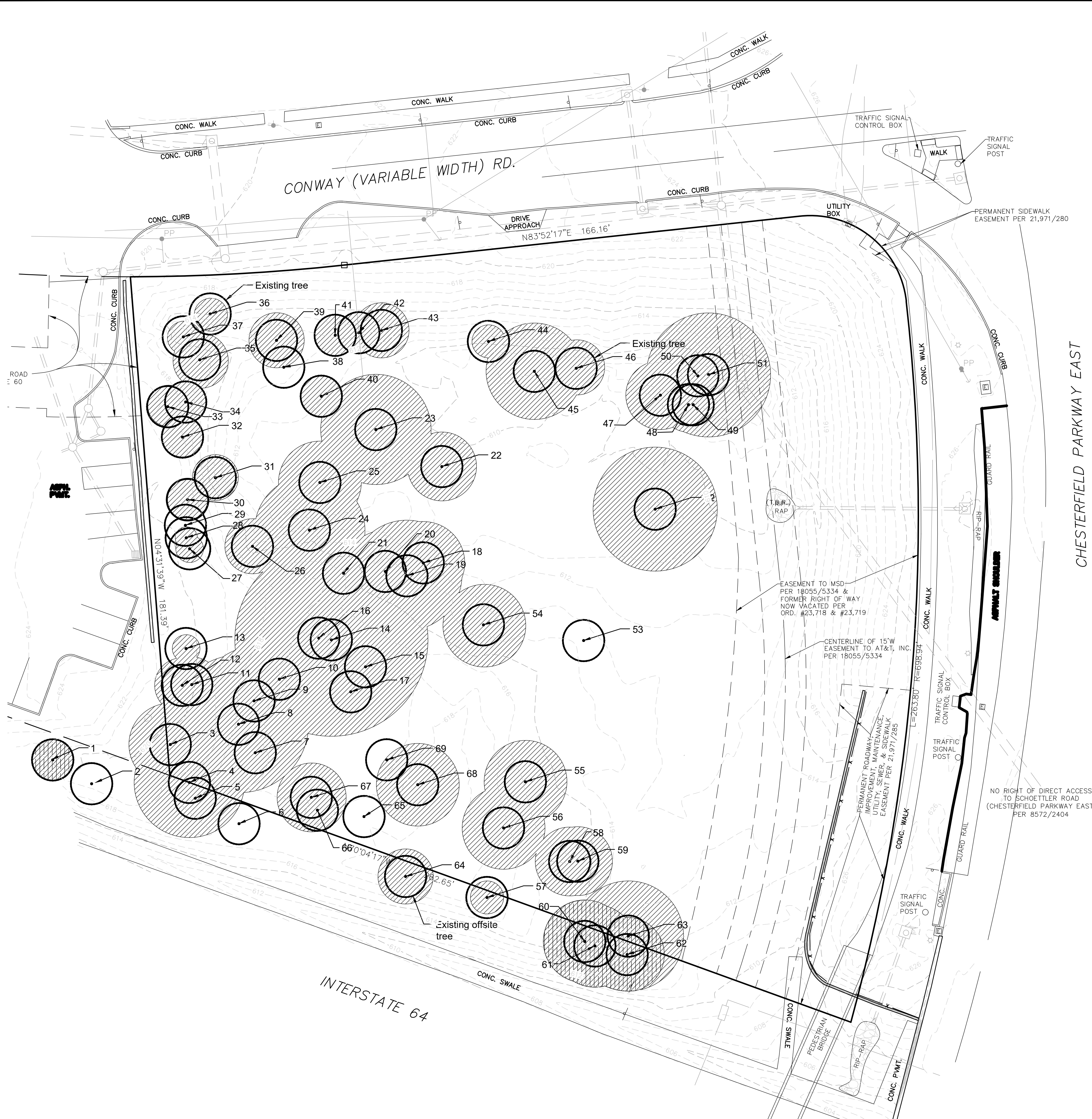
Date	Description	No.
3/22/22	City Comments	1

Drawn: RS  
Checked: RS

**LOOMIS ASSOCIATES**  
landscape architects + planners  
750 spirit 40 park drive, chesterfield, missouri 63005  
t. 636-519-8668  
www.loomis-associates.com

Loomis Associates Inc.  
Missouri State Certificate of Authority # LAC#0000191

Sheet Title:	Tree Stand Delineation
Sheet No:	TSD
Date:	12/17/21
Job #:	1046.001



Total Site Area = 64,853 s.f. (1.49 acres)  
Total Existing Tree Canopy Area = 21,013 s.f. (0.48 acres)

Tree Stand Delineation Prepared under direction of:  
Brian Bage  
Certified Arborist MW-5033A



PLANTING SCHEDULE								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	SIZE GROWTH RATE	SLOW/MEDIUM GROWTH RATE %	
<b>CANOPY-SHADE TREES</b>								
A	2	Zelkova serrata 'Village Green'	Village Green Zelkova	2.5" cal.	B&B	Lg/Fast	4.9 %	
B	2	Ulmus 'Frontier'	Frontier Elm	2.5" cal.	B&B	Lg/Fast		
C	2	Quercus rubra	Red Oak	2.5" cal.	B&B	Lg/M-Fast		
D	2	Acer rubrum 'October Glory'	October Glory Red Maple	2.5" cal.	B&B	Lg/Fast		
E	2	Carpinus betulus	Common Hornbeam	2.5" cal.	B&B	Med/Slow-M	4.9 %	
F	3	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo	2.5" cal.	B&B	Lg/Slow-M	7.3 %	
G	3	Gleditsia triacanthos f. inermis 'Skycole'	Skyline Honeylocust	2.5" cal.	B&B	Lg/Fast		
<b>UNDERSTORY-ORNAMENTAL TREES</b>								
J	2	Amelanchier x grand. 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5" cal.	B&B	Med/Slow-M	4.9 %	
K	3	Chionanthus virginicus	Fringetree	2.5" cal.	B&B	Small/Slow	7.3 %	
<b>EVERGREEN TREES</b>								
P	5	Picea abies	Norway Spruce	6" h.	B&B	Lg/Med		
Q	10	Juniperus chinensis 'Keterleeri'	Keteleeri Juniper	6" h.	B&B	Small/Slow-M	24.4 %	
R	5	Thuja 'Green Giant'	Green Giant Arborvitae	6" h.	B&B	Lg/Fast		
							Total	53.7 %

SHRUBS-GRASSES-PERENNIALS-ANNUALS-GROUNDCOVER							
a	14	Buxus 'Green Velvet'	Green Velvet Boxwood	18"		Cont.	
b	10	Buxus x 'Green Mountain'	Green Mountain Boxwood	18"		Cont.	
c	42	Syringa x 'Penda'	Bloomerang Purple Lilac	18"		Cont.	
d	16	Invincibelle Limetta Smooth Hydrangea	Invincibelle Limetta Smooth Hydrangea	18"		Cont.	
e	10	Hydrangea paniculata 'LVOBO'	Bobo Panicle Hydrangea	18"		Cont.	
f	20	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	18"		Cont.	
g	26	Spiraea media 'SMSMBK'	Double Play Blue Kazoo Spirea	18"		Cont.	
h	12	Caryopteris x clandonensis 'Janice'	Lil Miss Sunshine Bluebeard	18"		Cont.	
j	7	Rhus aromatica 'Gro-Low'	Gro-Low Fragrant Sumac	18"		Cont.	
k	34	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.		Cont.	
m	341	Iberis sempervirens	Candytuft	1 qt.	12" o.c.		
n	75	Sedum spurius	Tricolor Stonecrop	2" c.p.	12" o.c.		
p	3	Viburnum carlesii	Koreanspice Viburnum	24"		Cont.	

PLANTING SCHEDULE - MITIGATION								
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	SIZE GROWTH RATE	SLOW/MEDIUM GROWTH RATE %	
<b>CANOPY-SHADE TREES</b>								
AA	1	Zelkova serrata 'Village Green'	Village Green Zelkova	2.5" cal.	B&B	Lg/Fast	5.9 %	
CC	1	Quercus rubra	Red Oak	2.5" cal.	B&B	Lg/M-Fast		
DD	2	Acer rubrum 'October Glory'	October Glory Red Maple	2.5" cal.	B&B	Lg/Fast		
EE	1	Carpinus betulus	Common Hornbeam	2.5" cal.	B&B	Med/Slow-M	5.9 %	
<b>UNDERSTORY-ORNAMENTAL TREES</b>								
KK	1	Chionanthus virginicus	Fringetree (single stem)	2.5" cal.	B&B	Small/Slow	5.9 %	
<b>EVERGREEN TREES</b>								
PP	3	Picea abies	Norway Spruce	6" h.	B&B	Lg/Med		
RR	3	Thuja 'Green Giant'	Green Giant Arborvitae	6" h.	B&B	Lg/Fast		
SS	5	Juniperus virginiana	Juniper	6" h.	B&B	Med/Med	29.4 %	
							Total	47.1 %

**Mitigation:**

**30 % Total Existing Tree Canopy Area** = 6,304 s.f. (0.14 acres)  
**Required To Be Preserved**

**Total Tree Canopy Area** = 6,304 s.f. - 324 s.f. preserved tree canopy  
**Required For Mitigation** = 5,980 s.f. tree canopy required for mitigation  
 (10 large trees, 6 medium trees, and 1 small tree)

Ultimate Tree Canopy area values for planted trees per City of Chesterfield Tree Preservation and Landscape Requirements (P.Z. 25-2008)  
 a. Large Tree — 400 sq. ft.  
 b. Medium Tree — 300 sq. ft.  
 c. Small Tree — 200 sq. ft.

Open Space: 37.6 %



Jerald Saunders - Landscape Architect  
 MO License # LA-007

Consultants:

**Chabad of Chesterfield**  
 15310 Conway Road  
 Chesterfield, Missouri

**Revisions:**

Date	Description	No.
3/22/22	City Comments	1
4/29/22	City Comments	2

Drawn: RS  
 Checked: RS

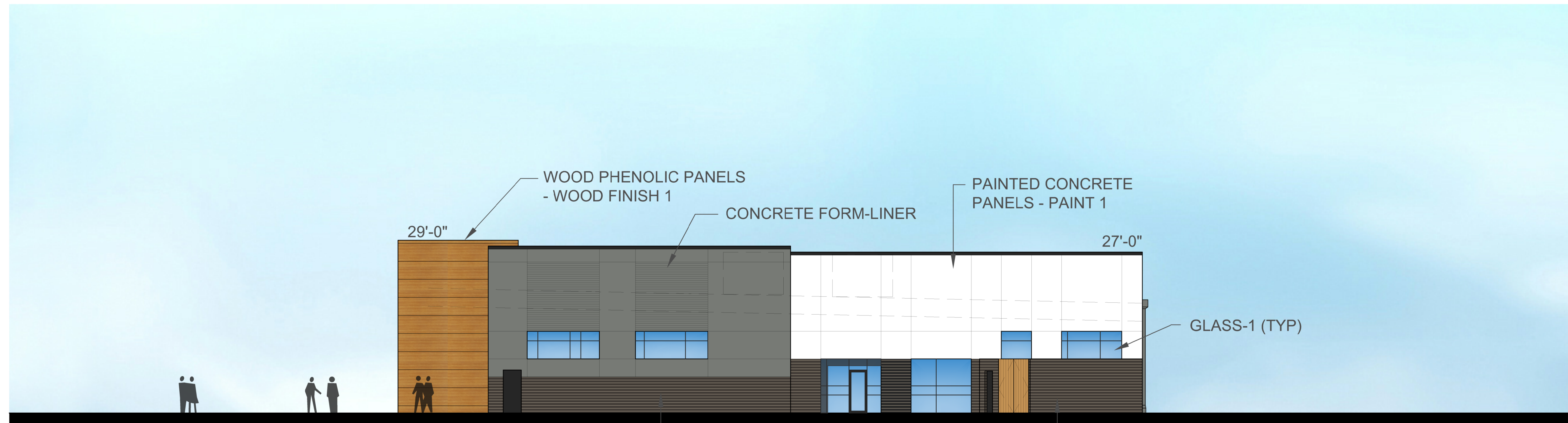


Sheet Title:	Landscape Mitigation Plan
Sheet No.:	LM1.01
Date:	12/17/21
Job #:	1046.001



CHABAD OF CHESTERFIELD





WEST ELEVATION

WOOD PHENOLIC PANELS - WOOD FINISH 1

CONCRETE FORM-LINER

PAINTED CONCRETE PANELS - PAINT 1

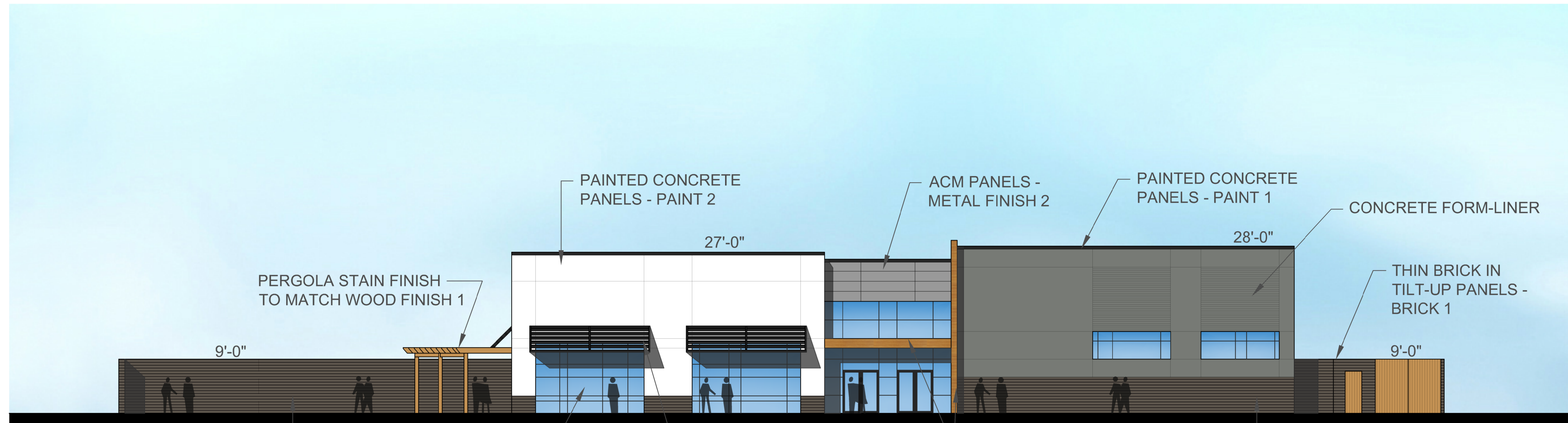
29'-0"

27'-0"

GLASS-1 (TYP)

THIN BRICK IN TILT-UP PANELS - BRICK 1

THIN BRICK IN TILT-UP PANELS - BRICK 1



FRONT ELEVATION

PERGOLA STAIN FINISH TO MATCH WOOD FINISH 1

9'-0"

27'-0"

28'-0"

9'-0"

PAINTED CONCRETE PANELS - PAINT 2

ACM PANELS - METAL FINISH 2

PAINTED CONCRETE PANELS - PAINT 1

CONCRETE FORM-LINER

THIN BRICK IN TILT-UP PANELS - BRICK 1

THIN BRICK IN TILT-UP PANELS - BRICK 1

WOOD PHENOLIC PANELS - WOOD FINISH 1

METAL AWNINGS - METAL FINISH 1

GLASS-1 (TYP)

**Chabad of Chesterfield**

15310 Conway Road, Chesterfield, MO 63017

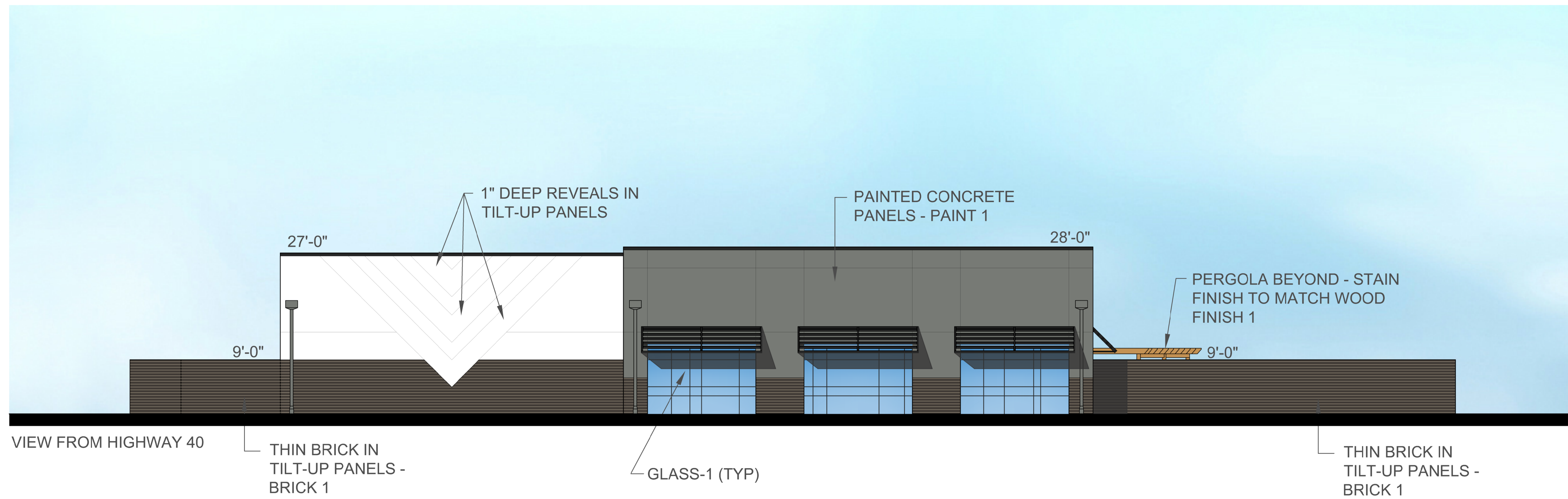
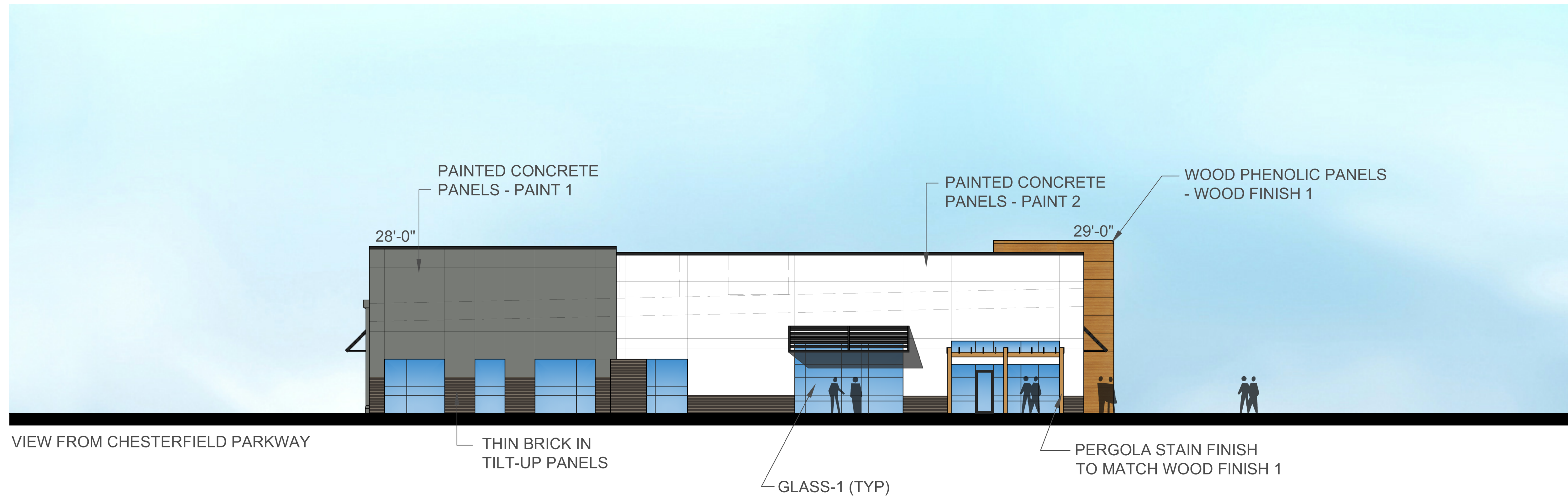
Elevations

27121325.00

04.20.2022

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**Chabad of Chesterfield**

15310 Conway Road, Chesterfield, MO 63017

Elevations

27121325.00

04.20.2022

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# Schedule

Symbol	Label	Image	Quantity	Manufacturer	Catalog Number	Description	Filename	Lumen Multiplier	Light Loss Factor	Total Lamp Lumens	Wattage	Plot
	A		5	Lithonia Lighting	RSX1 LED P4 40K R4 MVOLT SPA DDBXD + SSS 17' 4C DM19AS DDBXD	RSX Area Fixture Size 1 P4 Lumen Package 4000K CCT Type R4 Distribution	RSX1_LED_P4_40K_R4.ies	1	0.9	16573	133.14	
	B		2	Lithonia Lighting	WPX2 LED 40K MVOLT DDBXD M2	WPX2 LED wallpack 6000lm 4000K color temperature 120-277 Volt	WPX2_LED_40K_Mvolt.ies	1	1	5896	47.77	
	B1		15	Lithonia Lighting	DSXF1 LED P1 40K WFR	DSXF1 LED P1 40K WFR	DSXF1_LED_P1_40K_WFR.ies	1	0.9	-1	21	
	C		2	KICHLER	11251AZT30	LED WALL CYLINDER	11251-photometric-report.ies	1	0.9	574	14.7	

# Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PARKING LOT	+	2.3 fc	8.0 fc	0.0 fc	N/A	N/A
PERIMETER WALKWAYS	+	1.8 fc	21.0 fc	0.0 fc	N/A	N/A
SITE	+	0.3 fc	5.6 fc	0.0 fc	N/A	N/A

**RSX1 LED Area Luminaire**

Specifications:  
 EPA: 0.57 ft (0.05 m)  
 Length: 21.8" (554 mm)  
 Width: 13.3" (338 mm)  
 Height: 3.0" (76 mm) Max Body, 7.2" (183 mm) Max Arm  
 Weight: 22 lbs (10 kg)

Introduction:  
 The new RSX1 LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens following to replace 70W to 400W HID luminaires.

The RSX1 features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. The "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A heat sink with adjustable integral airfilter and other mounting configurations are available.

**WPX LED Wall Packs**

Specifications:  
 EPA: 0.57 ft (0.05 m)  
 Length: 21.8" (554 mm)  
 Width: 13.3" (338 mm)  
 Height: 3.0" (76 mm) Max Body, 7.2" (183 mm) Max Arm  
 Weight: 22 lbs (10 kg)

Introduction:  
 The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,500 to 2,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footcandle of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Robust die-cast construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency-recess battery options make WPX ideal for every wall mounted lighting application.

Ordering Information

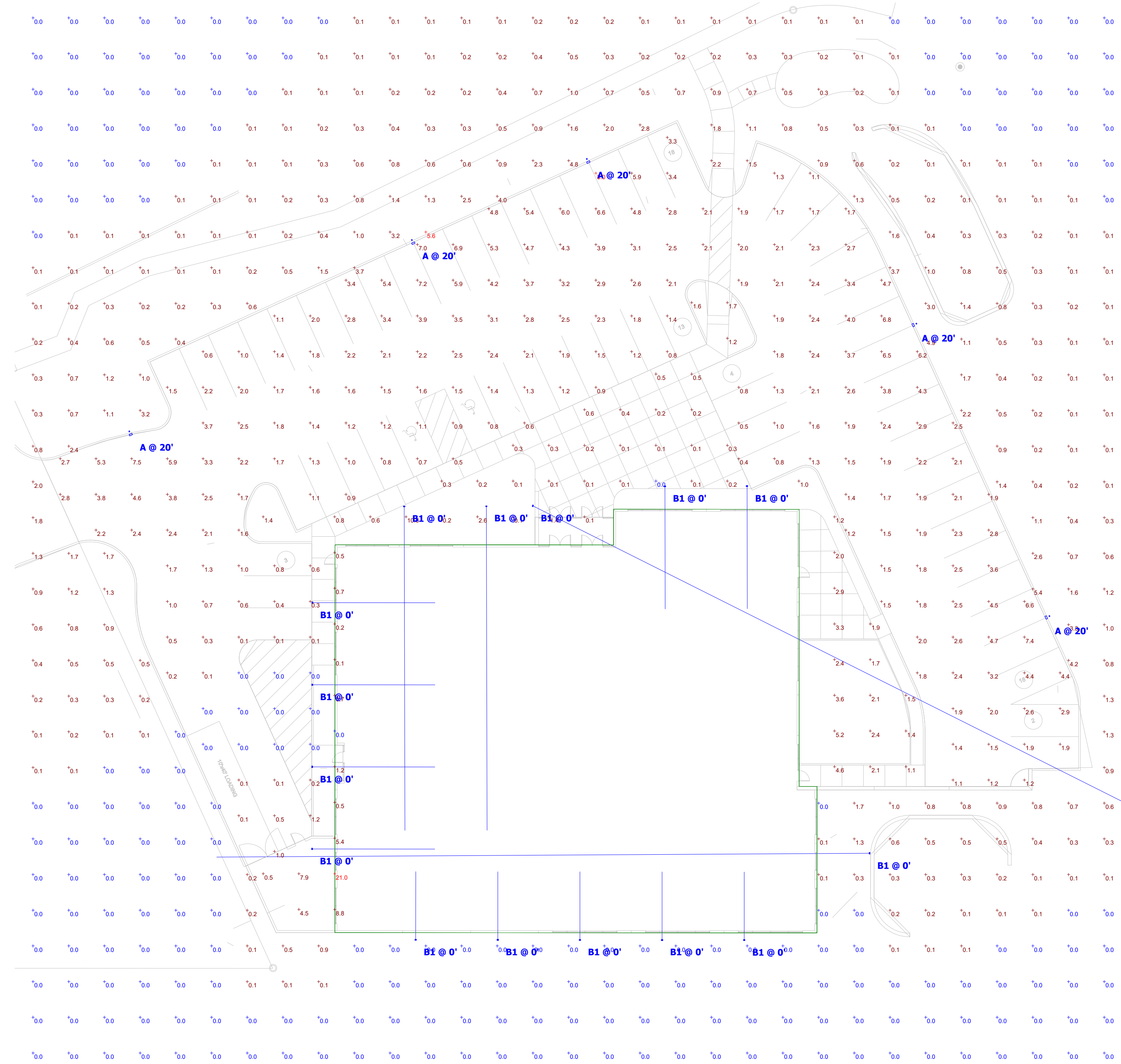
EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

Order	Part Number	Quantity	Notes	Notes
RSX1B	RSX1 LED P4 40K R3 MVOLT SPA DDBXD	5		

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

Order	Part Number	Quantity	Notes	Notes
WPX2B	WPX2 LED 40K MVOLT DDBXD	2		



**Plan View**  
 Scale - 1" = 20ft

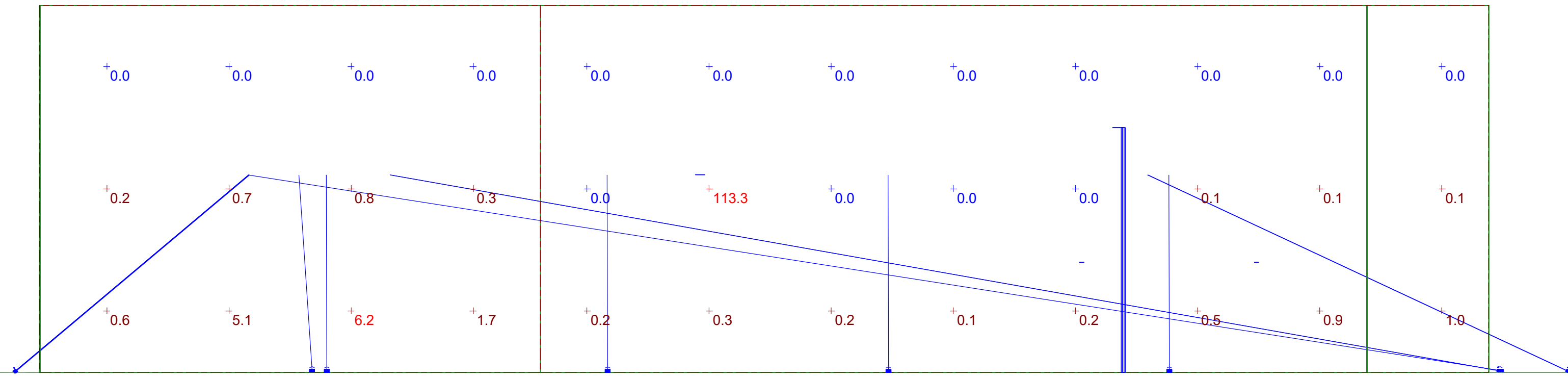
**DESIGNER'S NOTE:**

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IESNA) APPROVED METHODS. ADDITIONALLY, THE PREPARER USED INFORMATION PROVIDED BY THE CUSTOMER. IF/WHEN SUFFICIENT INFORMATION WAS NOT PROVIDED, PREPARER USED EDUCATED ASSUMPTIONS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE(S) MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER FIELD CONDITIONS NOT ACCOUNTED FOR IN THIS PHOTOMETRIC ANALYSIS.

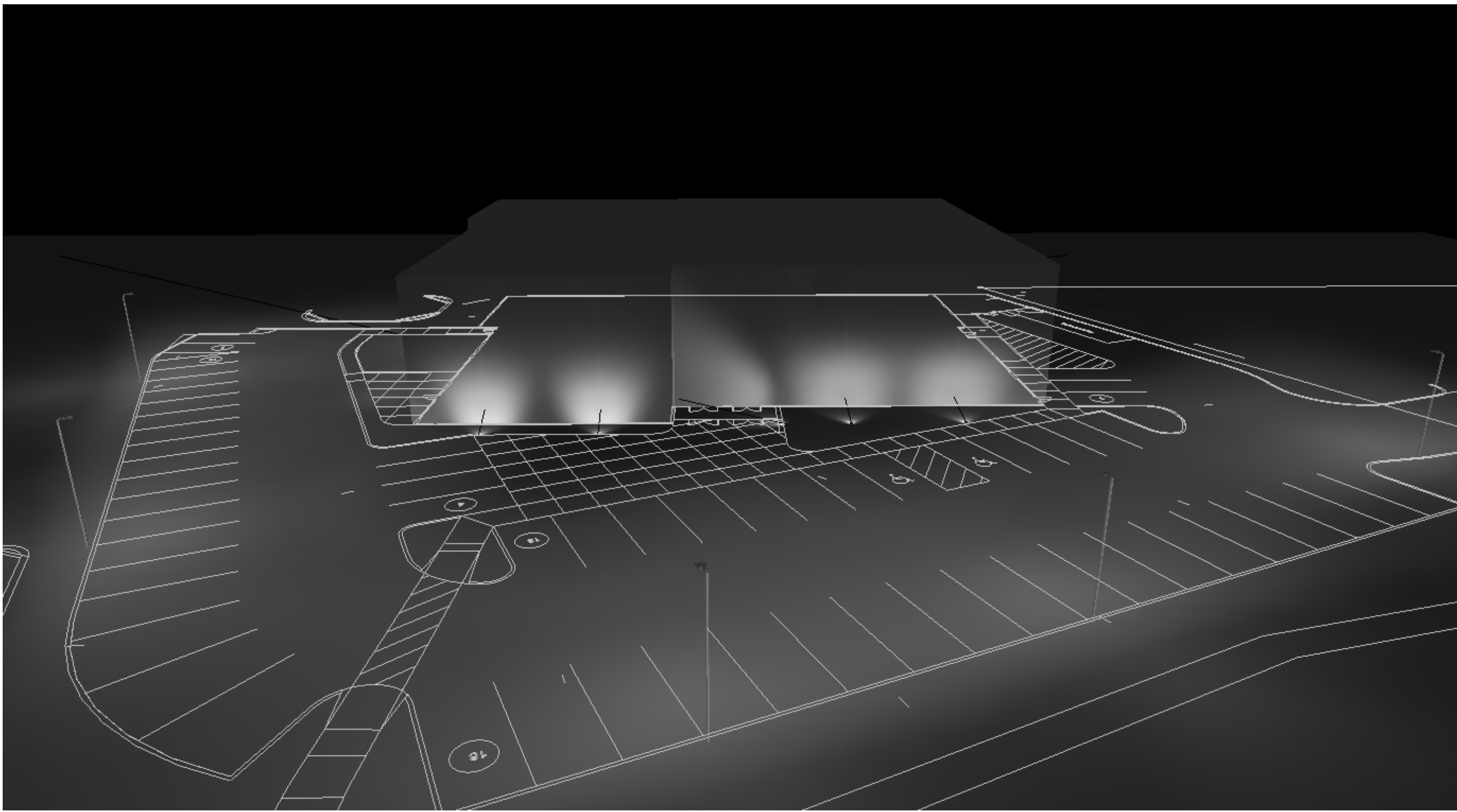
THESE LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT IS RESPONSIBLE TO REVIEW FOR ENERGY CODE AND RELEVANT LIGHTING QUALITY COMPLIANCE.

**Note**

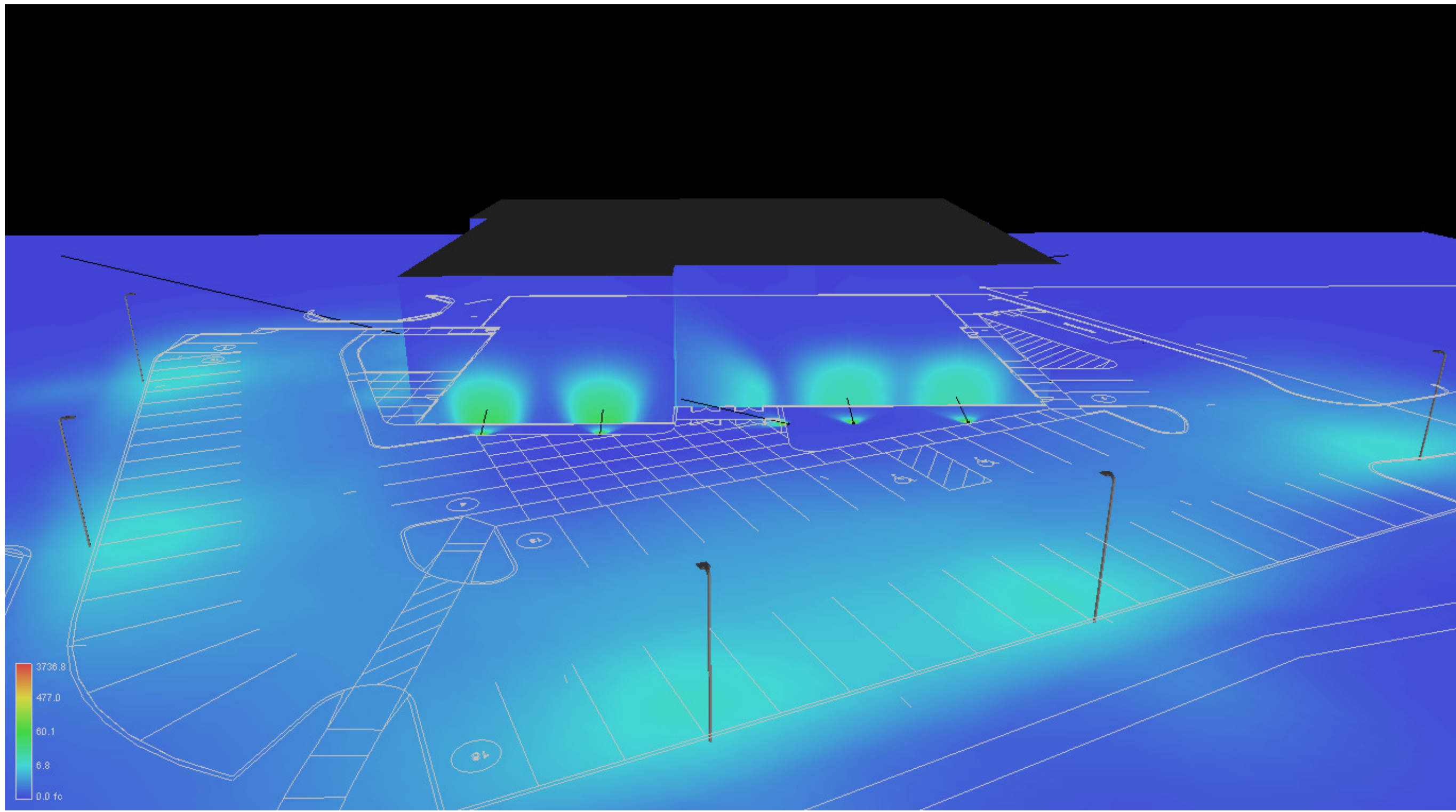
- MEASUREMENTS TAKEN @ GROUND LEVEL  
 - MOUNTING HEIGHT NOTED ON EACH FIXTURE



**East View**  
Scale - 1" = 8ft



PERSPECTIVE



PERSPECTIVE - PSEUDO COLOR

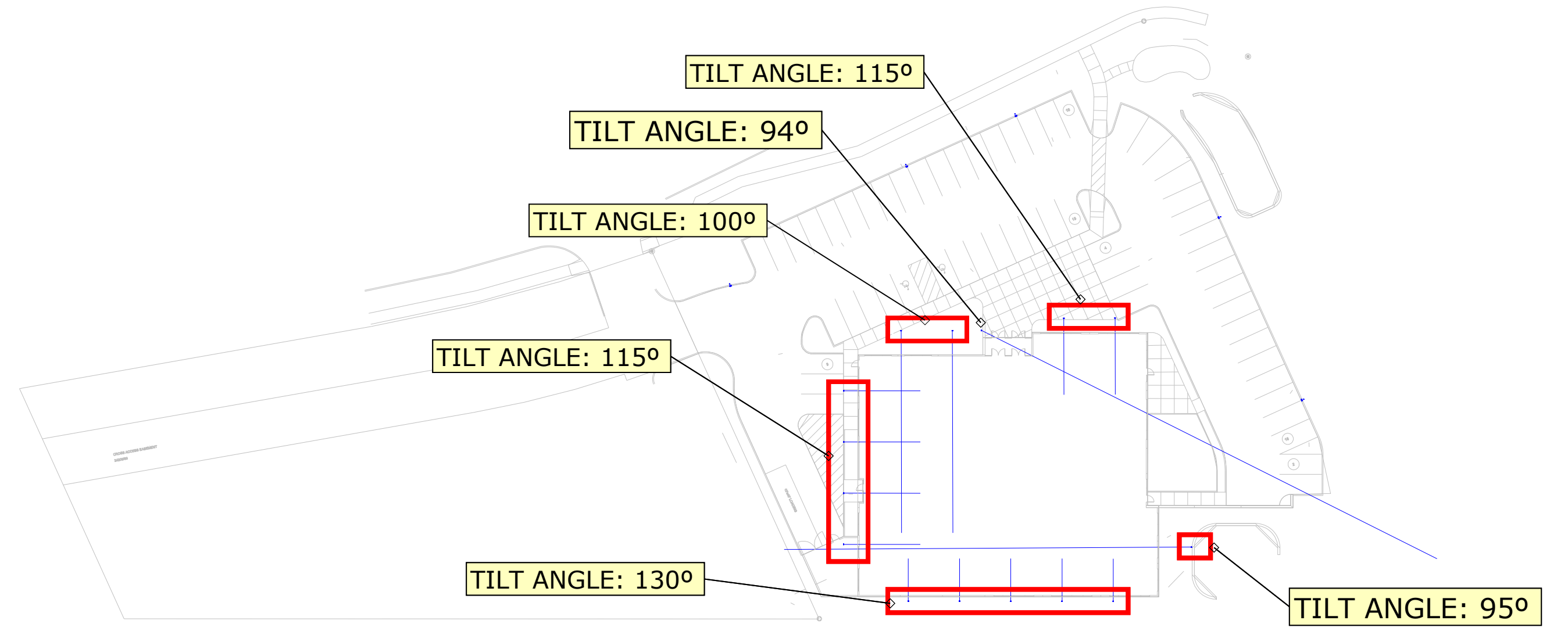
**Note**

- MEASUREMENTS TAKEN @ WALL SURFACE LEVEL
- MOUNTING HEIGHT NOTED ON EACH FIXTURE

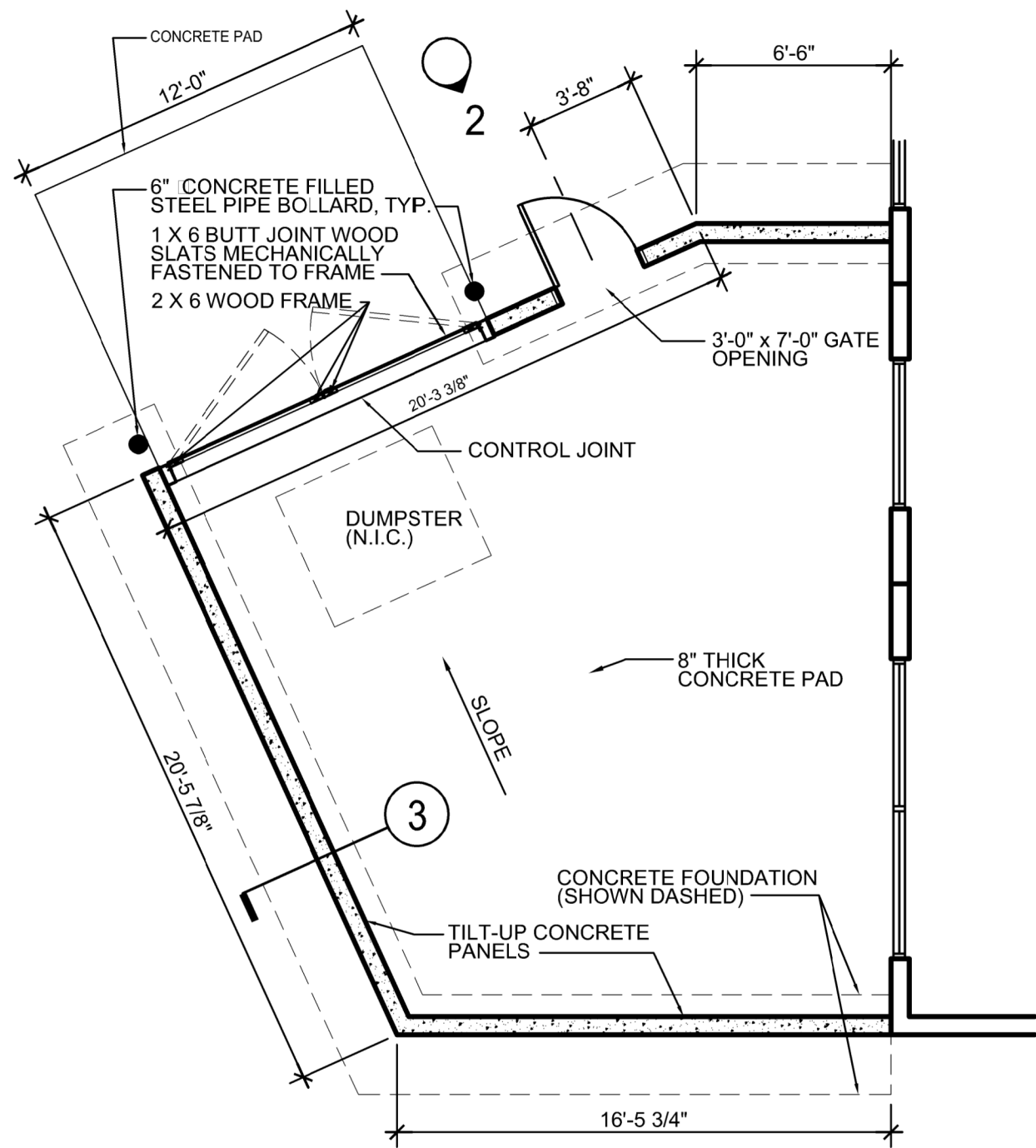
**DESIGNER'S NOTE:**

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING / FUTURE FIELD CONDITIONS. THIS LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IESNA) APPROVED METHODS. ADDITIONALLY, THE PREPARER USED INFORMATION PROVIDED BY THE CUSTOMER. IF/WHEN SUFFICIENT INFORMATION WAS NOT PROVIDED, PREPARER USED EDUCATED ASSUMPTIONS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE(S) MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, AND OTHER FIELD CONDITIONS NOT ACCOUNTED FOR IN THIS PHOTOMETRIC ANALYSIS.

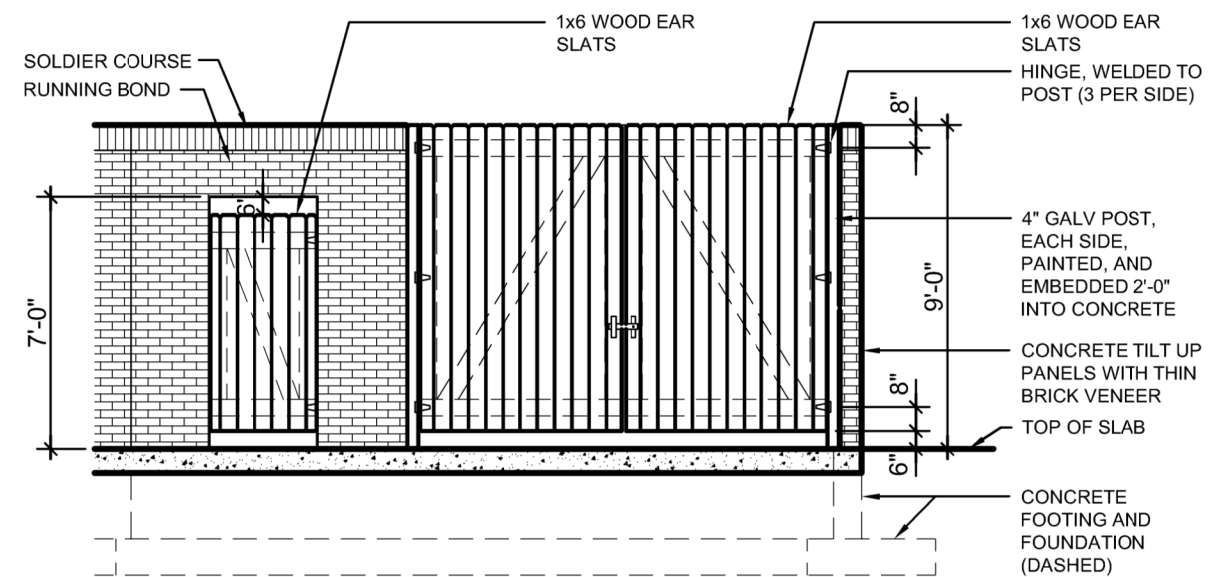
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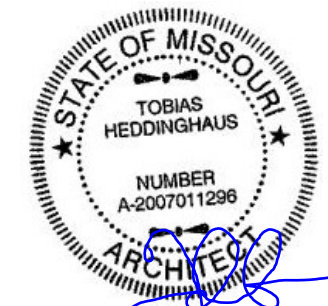
**Plan View**  
Scale - 1" = 50ft



**1 TRASH ENCLOSURE PLAN**  
SCALE: 3/16" = 1'-0"



**2 TRASH ENCLOSURE GATE ELEVATION**  
SCALE: 3/16" = 1'-0"



**Chabad of Chesterfield**

15310 Conway Road, Chesterfield, MO 63017

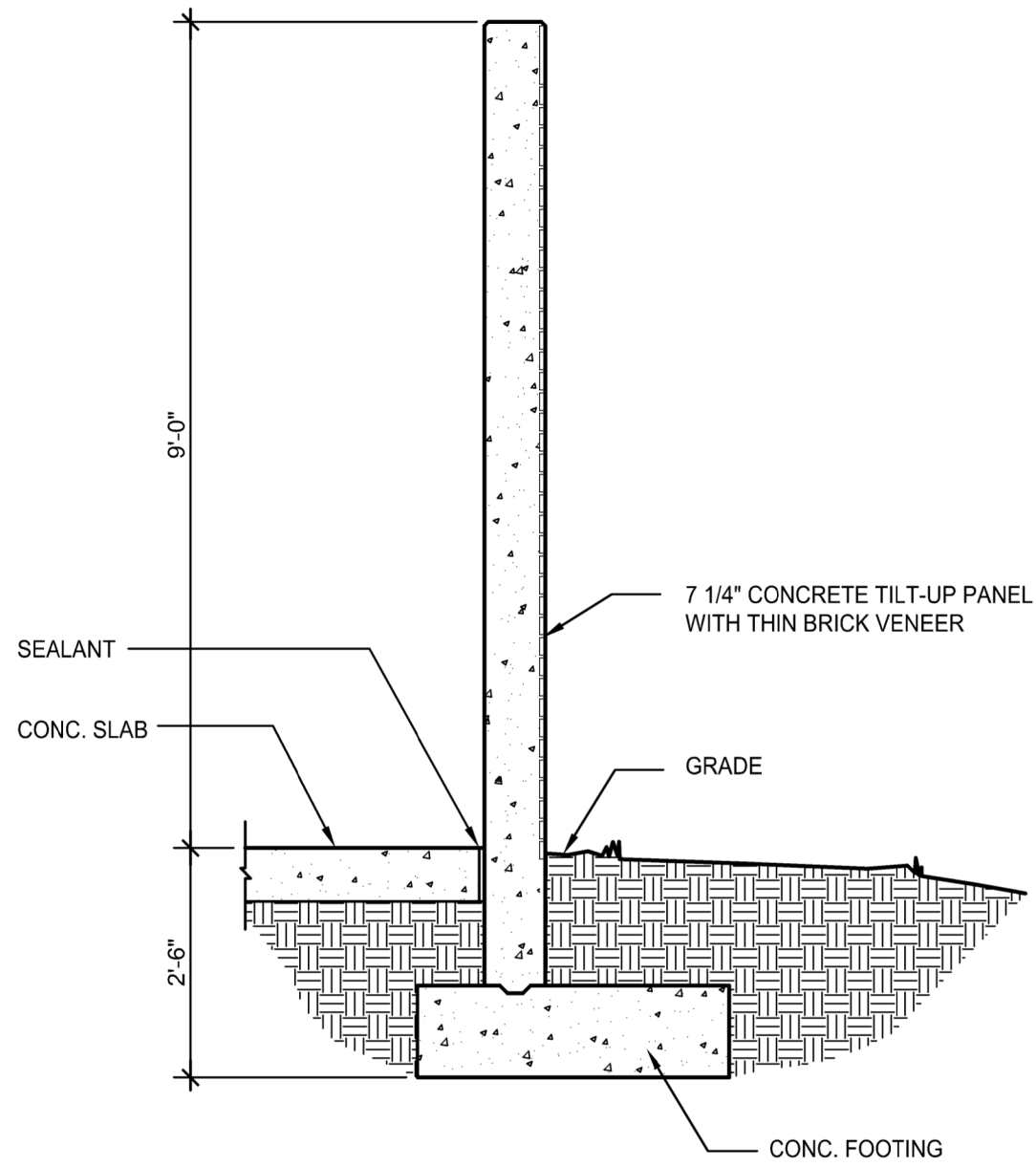
PLAN & ELEVATION

27121325.00

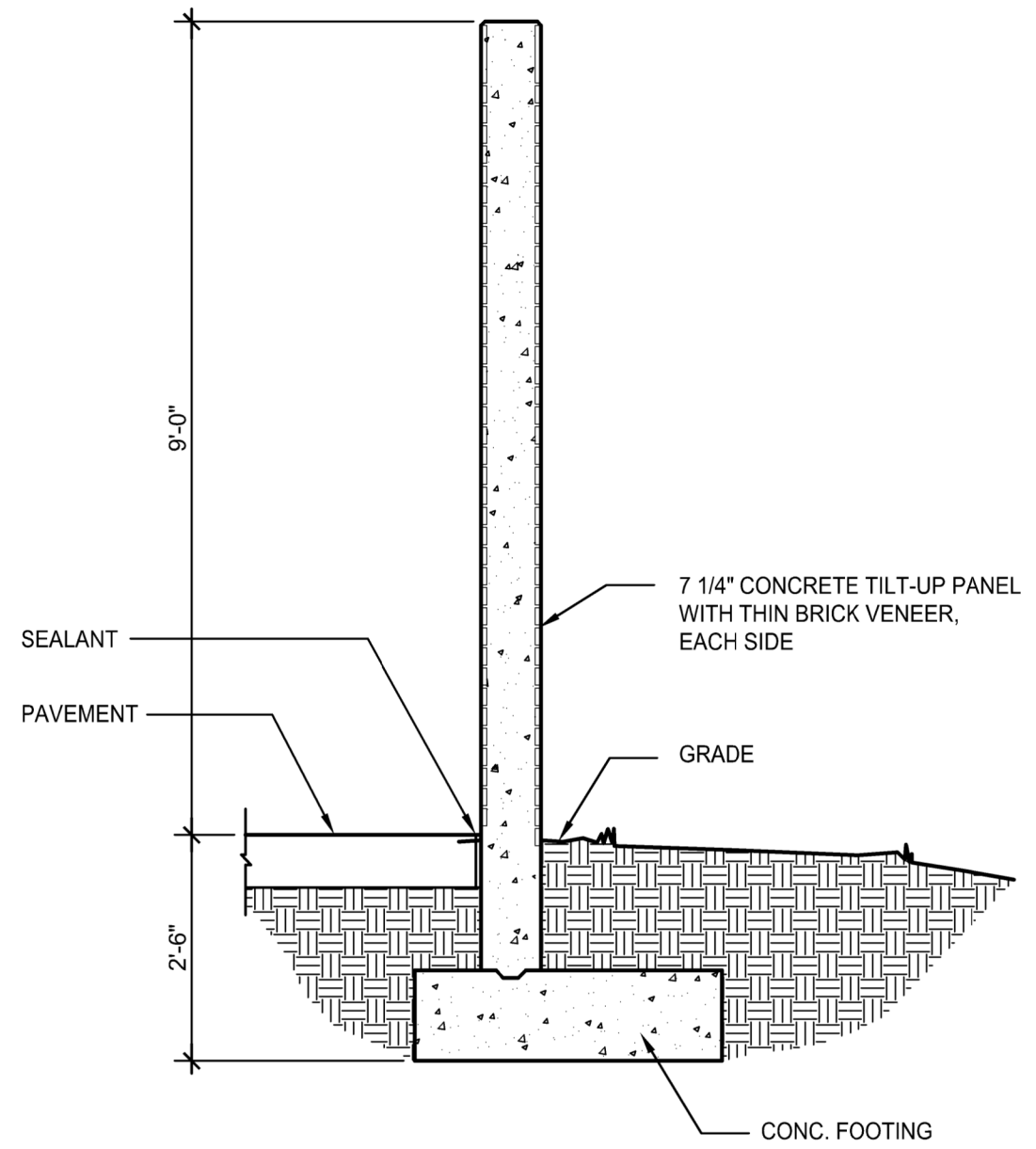
03.22.2022

**Conway**  
CONTRACTING INC.

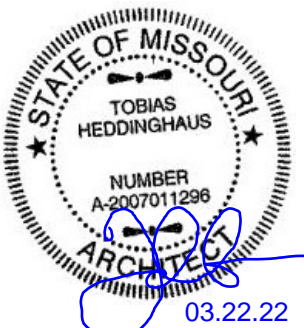
**gray**



**3 TRASH ENCLOSURE SECTION**  
SCALE: 1/2" = 1'-0"



**4 SCREEN WALL SECTION**  
SCALE: 1/2" = 1'-0"



03.22.22

**Chabad of Chesterfield**

15310 Conway Road, Chesterfield, MO 63017

WALL SECTIONS

2712325.00

03.22.2022

**Conway**  
CONTRACTING INC.

**gray**