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Planning Commission Staff Report

Project Type: Amended Site Development Section Plan

Meeting Date: May 23, 2016

From: Jessica Henry, AICP

Project Planner

CC: Aimee Nassif, Planning & Development Services Director

Location: South of South Outer Forty Road west of its intersection with Chesterfield

Center

Applicant: GMA Architects on behalf of Skygroup Investments, LLC.

Description: Chesterfield Village Mall (i-FLY): Amended Site Development Section Plan,

Amended Landscape Plan, Amended Lighting Plan, Architectural Elevations and an Architect's Statement of Design for a 4.09 acre lot of land zoned "C8" Planned Commercial District located south of South Outer Forty Road west of its intersection with Chesterfield Center, more specifically addressed 595

Chesterfield Center.

PROPOSAL SUMMARY

The request is for a 7,777 square foot indoor skydiving facility located on an out lot of the Chesterfield Mall. The subject site is zoned "C-8" Planned Commercial District. The proposed building is 67 feet in height and will be primarily constructed of EIFS, with a clear anodized aluminum storefront and a CMU band along the base of the building. Large, clear glass windows and a small balcony are featured along the front façade. As detailed in the Architect's Statement of Design, the unique building form and design results from the building's functional demands as an indoor sky-diving facility.

HISTORY OF SUBJECT SITE

Chesterfield Village Mall was zoned "C-8" Planned Commercial via St. Louis County Ordinance 6,815. St. Louis County Ordinance 6,815 was subsequently amended by St. Louis County Ordinance 10,241, and later by City of Chesterfield Ordinance 577. The subject site is an out lot of the mall and formerly housed the Chesterfield Ciné, which was demolished several years ago and the site has not been redeveloped.

Land Use	and Zoning	of Surrounding	Properties
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Direction	Land Use	Zoning
North	Vacant	"C-8" Planned Commercial District
South	Chesterfield Mall	"C-8" Planned Commercial District
East	Edge Wild Restaurant	"C-8" Planned Commercial District
West	Vacant	"C-8" Planned Commercial District



Figure 1—Chesterfield Mall and Subject Site Aerial Image

Comprehensive Plan Analysis

The subject site is located within the Urban Core designation, as shown in the graphic on the following page. The Urban Core area is defined within the Comprehensive Plan as "the area known as the Chesterfield Village, centered at the intersection of I-64/US 40 and Clarkson Road/Olive Boulevard and primarily served by the Chesterfield Parkway. Land uses for the Urban Core include a mixture of high-density residential, retail and office uses containing the highest density development in the City of Chesterfield." This area also serves as the visual and physical focus of the City. The use proposed in conjunction with this request is compliant with the Urban Core land use designation.

In addition to compliance of uses, a proposed development should be in compliance with the applicable Development Policies of the Urban Core land use as well as Commercial Development Policies listed in the Comprehensive Plan. On the following page is a list of relevant policies within the Comprehensive Plan.

- 3.1.1 Quality of Design Overall design standards should be provided for smaller-scale, mixeduse, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.
 - This policy is met by this proposed development and information pertaining to several of these items is contained throughout this report.
- 3.6.1 High Density Development High-density development should be developed as part of the
 Urban Core. High-density development encourages clustering of buildings with diverse building
 form through minimum restrictions for building height, openspace and setback requirements.
 - As discussed earlier, the Urban Core is the center of the City. City centers typically are their downtowns which offer many mixed uses, especially high density developments. The proposed development offers an additional recreation use and serves as in-fill development on a vacant parcel in need of redevelopment.



Figure 2—Comprehensive Land Use Plan

STAFF ANALYSIS

Zoning

As mentioned at the outset, the subject site is an out lot of the Chesterfield Mall and formerly contained the Chesterfield Ciné. When the theater was demolished, the building area was graded and vegetated. The parking area was left in place and has largely deteriorated, as evidenced in the 2015 aerial image below. Along with the rest of the mall, the subject site is zoned "C-8" Planned Commercial District under the terms and conditions of St. Louis County Ordinance 6,815 and 10,241 and City of Chesterfield Ordinance 577. These ordinances govern the southwest quadrant of Chesterfield Village and establish specific requirements for the Chesterfield Village Mall which will be discussed as applicable throughout this report.

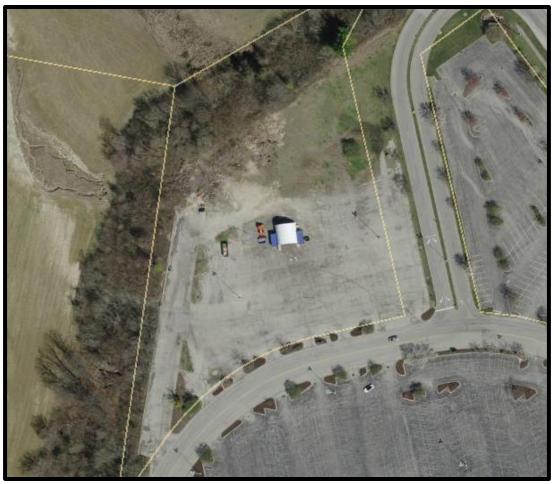


Figure 3—2015 Aerial image of deteriorated parking lot

Access and Site Circulation

The site is accessed from Chesterfield Center Drive along the south property line, which is the internal, private mall ring road. Although numerous curb cuts exist along Chesterfield Center Drive and date back to the original development of the site, the applicant is proposing to eliminate three of the curb cuts. Large landscape islands will allow for improved site circulation while adding a significant amount of landscaping along the mall ring road frontage. This landscaping will also differentiate the subject site from the rest of the mall.

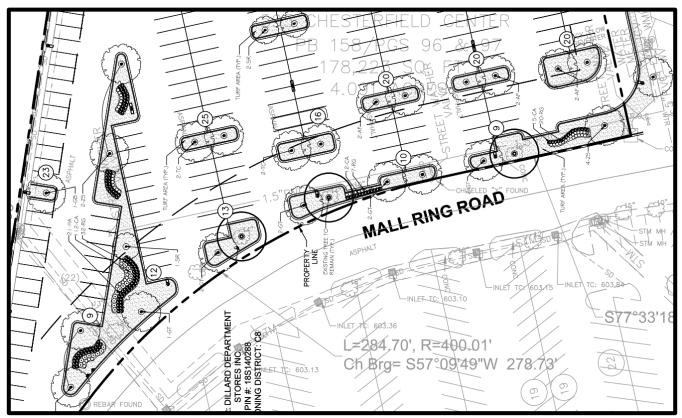


Figure 4—Landscape Plan excerpt of reconfigured access points

Parking

In 1991, City of Chesterfield Ordinance 577 was approved and provided for a comprehensive mall parking requirement of 5.5 spaces per 1,000 square feet of gross floor area for all uses with an 18.5% overall reduction in parking spaces due to the nature of this development. As such, Staff reviewed parking for the entire mall to ensure that the mall remained in compliance with this parking requirement with the addition of the proposed i-FLY development. Note that the 252 spaces shown on the Amended Site Development Section Plan are for the i-FLY parcel only; the total number of parking spaces provided for the entire mall will be 5,867. This figure reflects the parking spaces that will be eliminated to allow for the closure of three curb cuts and installation of landscape islands on the i-FLY parcel. Even with these improvements, the mall continues to exceed the established parking requirement which will allow for some additional future redevelopment or infill development.

Landscaping

Although this is an existing site, the applicant is bringing the entire parking area within the subject site up to Unified Development Code standards. This includes the provision of new landscape islands throughout the parking area, the planting of additional street trees along the perimeter drive, and landscaping around the mechanical yard and utility transformer.

The existing trees on the site will all be preserved and site disturbance is limited to the site area south of the existing tree line. Due to this large area of tree coverage, 41.5% open space is provided.

Lighting

The lighting plan proposes the typical fully shielded, full cut-off pole mounted parking lot light fixtures and building entry wall mounted light fixtures. Additionally, canopy light fixtures are proposed at the entry. Each of these fixtures meets City code requirements.

In addition to these, the applicant is proposing to utilize façade accent lighting on all elevations. This accent lighting consists of projections of a soft blue light on the side portions of the façade. Regarding such lighting, the Unified Development Code states the following:

- Exterior building lighting shall be architecturally integrated with the building style, material, and color. The color of exterior lamps shall be consistent with that on surrounding buildings.
- All accent lighting, including light emitting diodes (LED), and lighting used for signage shall be subject to the approval of the Department.
- All exterior lighting shall be unobtrusive, harmonious with the local area, and constructed or located so that only the intended area is illuminated and off-site glare is fully controlled.

The ARB found that this lighting application was appropriate for this building design and location and that it was indeed architecturally integrated. Further, the applicant has included night renderings and 3-D horizontal photometrics of the proposed lighting for the Planning Commission's consideration. These supporting documents demonstrate adherence to the City's Unified Development Code in that the light cast is limited to select portions of the building façade.

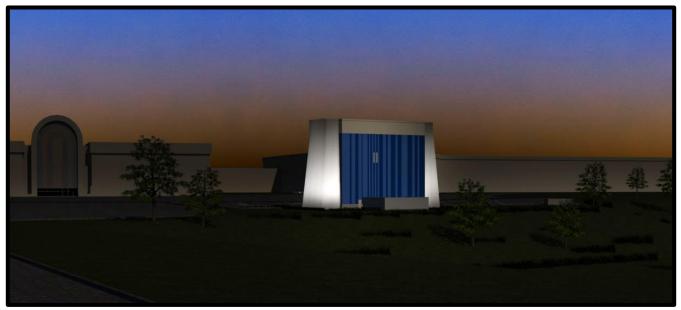


Figure 5—Night rendering of proposed accent lighting

Architectural Elevations

The applicant is proposing a multi-story building that is approximately 67 feet in height. The building height and massing is comparable to the existing mall and is within the range of varying heights of the other out lot developments in this area. Additionally, the contemporary, exaggerated design of the proposed building ties into the surrounding area architecture via the use of similar materials and bright colors utilized by other mall tenants in recent years, such as the Cheesecake Factory and American Girl store.

Each side of the building is comprised of a return air tower that funnels air to the flight chamber, located in the center of the building. The Architect's Statement of Design includes the following statement:

"It's a truly engineered building in that the massing and construction type have been chosen to specifically house the equipment. You can't separate the flying experience from the building that houses it."

The central portion of the building protrudes horizontally from the tall, tapered return air towers, which provides articulation. The roof of the protruding center portion is recessed behind a parapet wall, which fully screens roof-mounted mechanical equipment from view.

The center portion of the building will be comprised of EIFS in three different colors—two complementary shades of blue applied in a vertical striping pattern, and a neutral beige across the top band that will correspond to the paint color of the return air tower on each side of the building. Several large windows break up the front façade, and two portions of the beige EIFS color are featured between the horizontal set of windows. Two narrow vertical windows are proposed on the rear elevation of the building; however, apart from that the rear of the building lacks the variation provided on the front of the building.

A CMU block band is included along the base of the central portion of the building and an anodized aluminum storefront entry with canopy is proposed.

The project was reviewed by the Architectural Review Board (ARB) on April 14th, 2016. A motion to forward the submittal to the Planning Commission with a recommendation for approval with the conditions listed below was passed by a vote of 5-0.

- 1. Integrate and soften the pedestrian areas with additional landscaping near the front entry.
- 2. Continue the landscape design proposed for the two islands adjacent to the front building entry across the entire first row of landscape islands.

In response to the ARB's recommendations, the Applicant has significantly increased the landscaped area along the front building elevation and the entire first row of landscape islands features the same planting design.

STAFF RECOMMENDATION

Staff has reviewed the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design and has found the proposal to be in compliance with the site specific ordinance and all City Code requirements. Staff recommends approval of the proposed development of Chesterfield Village Mall (i-FLY).

MOTION

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

- 1) "I move to approve (or deny) the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Village Mall (i-FLY).
- 2) "I move to approve the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect's Statement of Design for Chesterfield Village Mall (i-FLY) with the following conditions..." (Conditions may be added, eliminated, altered or modified)

Attachments: Architect's Statement of Design

Light Fixture Cut Sheets Architectural Renderings Architectural Elevations

Amended Site Development Section Plan

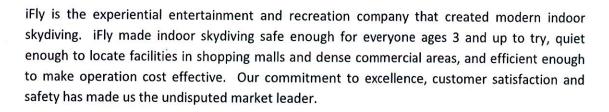
Landscape Plan Lighting Plan

CC: Aimee Nassif, Planning and Development Services Director

iFly – Chesterfield Chesterfield Mall Ring Road

Architect's Statement of Design

1. Background



2. Project Description

The iFly Indoor Skydiving facility is an approximately 7,777 square foot building that includes three occupied stories surrounded on four sides (top, bottom and two sides) by free-fall simulator equipment necessary to operate the flight chamber. Two of the stories are dedicated to indoor skydiving and free-fall simulator activities including training, gathering, flight chamber staging, the flight chamber, merchandising and various support functions. The third story is dedicated to facility support staff and storage. Free-fall simulator equipment includes a large below grade crawl space, two vertical shafts that span the height of the building and an attic that houses an equipment platform used to access shafts, fans and electrical equipment.

3. Façade Design

The façade is a direct result of the function of the indoor flight chamber. Return air towers (RAT) on each side taper towards the top and direct airflow downward into the crawl space that allows the two opposing airflows to converge and direct the flow upwards into the central vertical shaft and flight chamber. The building between is a substantial steel frame covered in integral colored EIFS with vertical reveals complimentary to the towers. Clear anodized aluminum storefront windows provide light into the reception, lobby, conference room and offices. A covered balcony on the third level is located above the entry canopy.

The structure has evolved over the course of the company's history to accommodate the unique equipment necessary, and the optimal flow of people through the experience of flying. It's a truly engineered building in that the massing and construction type have been chosen to specifically house the equipment. You can't separate the flying experience from the building that houses it.





The color scheme reinforces the notion of flight and floating. Vertical bands of blue evoke a layered sky and upward motion. Tall windows emphasize vertical motion. The entrance canopy creates a strong horizontal band with minimal columns creating the illusion of a floating cloud. Architectural details at street level include a base of CMU veneer.

4. Energy Efficiency

Substantial research and development has been invested into the efficiency of the return air towers and crawl space. Air flow and resistance is a major influence on power consumption of the flight chamber equipment. The wall system at conditioned spaces includes 6" (R-19) cavity insulation plus continuous (R-7.5) insulation in the EIFS. To control solar heat gain, roller shades are provided at all exterior windows with the exception of the Reception Lobby which has a canopy with deep overhangs. In addition, a vestibule tempers heating/cooling loss at the building's entry.

5. Equipment Screens

Ground equipment is concealed behind a 9'-4" tall, opaque concrete block wall with louvered metal gates. Roof top equipment is located behind a 4'-0" tall parapet at the 54'-0" equipment platform level. The parapet is a continuation of the vertical wall plane and blends seamlessly with building's massing. Roof top equipment does not exceed 45" in height therefore no equipment is visible from ground level.

6. Context

The building is located at the northwest end of the Chesterfield Mall Complex, roughly 800 feet north of the Dillard's entry arch and roughly 600 feet west of the EdgeWild Restaurant and Winery. It is predominately surrounded by asphalt surface parking to its south with open green space followed by Interstate 40/64 to its north. The simple form and color responds to the massing of Dillard's and Macy at the Mall.



SOLID STATE AREA LIGHTING

RSB SERIES-LED

SPECIFICATIONS

HOUSING

Heavy wall spun aluminum construction.

ADM/

3"X5"X6" long heavy wall extruded aluminum. Arm is secured to housing and to pole with stainless steel rods.

VLED OPTICAL MODULE

Low copper A356 alloy (<.2% copper) cast aluminum housing Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module; one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce IES Type II, III, IV, and V-SQ Distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

LED EMITTERS

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

LED DRIVER

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

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and paint adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.

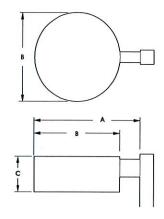
PROJECT NAME:

FIXTURE TYPE:

L2/L4/L22/L42



PATENT PENDING

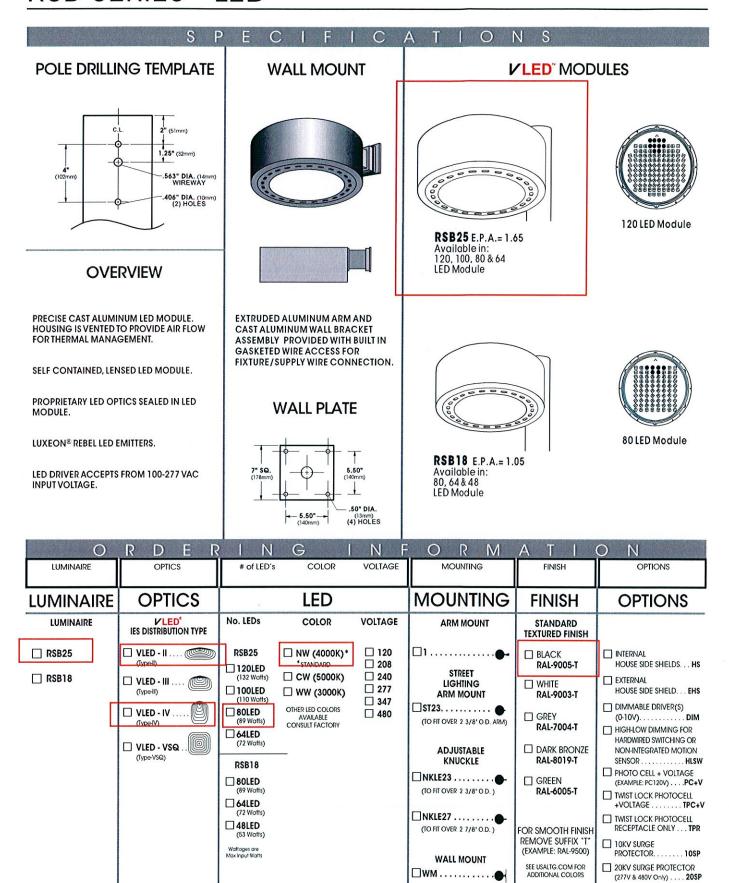


FIXTURE	A	В	C
RSB25	31"	25"	11"
	784mm	635mm	279mm
RSB18	24"	18"	9"
	609mm	457mm	229mm



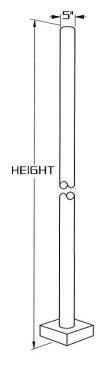


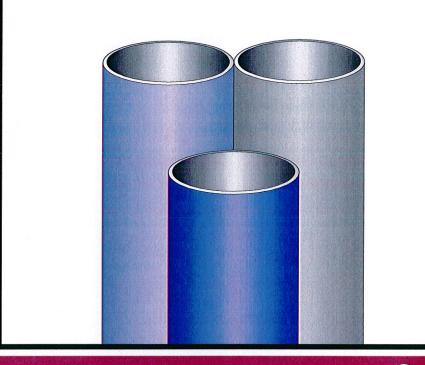
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RNTS 5"

L2 / L4 / L22 / L42









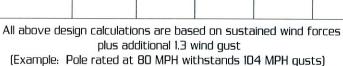
SPECIFICATIONS

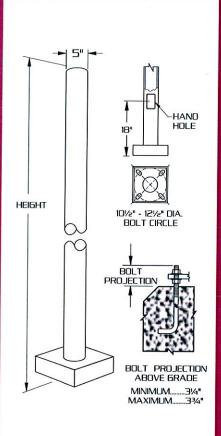
- SHAFT: 5" DIAMETER. FABRICATED FROM HIGH GRADE STRUCTURAL STEEL TUBE. SHAFT CONFORMS TO ASTM-A-501-68 SPECIFICATIONS. MEETS OR EXCEEDS MINIMUM YIELD STRENGTH OF 46,000 P.S.I. WALL THICKNESS 11 GA. (.120 WALL)OR 7 GA. (.180 WALL) AS SPECIFIED, REINFORCED HAND HOLE IS FURNISHED WITH COVER. SHAFT IS FURNISHED WITH GROUND LUG LOCATED INSIDE POLE ON WALL OPPOSITE HAND HOLE.
- BASE PLATE: FABRICATED FROM STRUCTURAL QUALITY HOT ROLLED STEEL. MEETS OR EXCEEDS MINIMUM YIELD STRENGTH OF 36,000 P.S.I. BASE TELESCOPES AND IS CIRCUMFERENTIALLY WELDED TO POLE SHAFT. SLOTTED BOLT HOLES PROVIDE I" FLEXIBILITY ON EITHER SIDE OF BOLT CIRCLE CENTERLINE.
- ANCHORAGE: (4) ANCHOR BOLTS FABRICATED FROM HOT ROLLED STEEL BAR. MINIMUM YIELD STRENGTH OF 50.000 P.S.I. BOLTS HAVE "L" BEND ON ONE END AND ARE THREADED ON THE OTHER END. BOLTS ARE FULLY GALVANIZED AND ARE FURNISHED WITH TWO NUTS AND TWO WASHERS.
- BASE COVER: FABRICATED FROM HEAVY GAUGE QUALITY CARBON STEEL. TWO PIECE COVER CONCEALS BASE.
 - FINISH: POLYESTER POWDER COAT. THE METAL SURFACE IS PRETREATED BY SAND BLAST PROCESS FOR MAXIMUM PAINT ADHESION. ELECTROSTATICALLY APPLIED POLYESTER POWDER TOPCOAT IS BAKED AT 400° TEMPERATURE FOR MAXIMUM HARDNESS AND EXTERIOR DURABILITY.

RNTS SERIES

ENGINEERING DATA Maximum EPA - Square Feet

Catalog Number	Maximum Fixt. wgt.	100 MPH	90 MPH	80 MPH	70 MPH
RNTS 165-11	200	8.1	10.0	12.6	15.8
RNTS 185-11	175	6.5	8.1	10.0	12.6
RNTS 185-7	325	12.4	16.3	32.1	43.9
RNTS 205-11	150	5.2	6.5	7.9	10.1
RNTS 205-7	275	10.1	14.9	22.3	32.5
RNTS 255-11	125	4.1	5.9	7.6	10.9
RNTS 255-7	250	8.0	10.7	13.2	19.7





MODEL NO.: RNTS	1		POLE	S		MOUNTING	FINISH	OPTIONS
MODEL NO.:			POL	ES		MOUNTING	FINISH	OPTIONS
R		POLE HEIGHT	WALL THICKNESS	BOLT CIRCLE	ANCHORAGE	☐2 3/8"X4" TENON PT23	STANDARD SMOOTH FINISH	☐ DUPLEX RECEPTACLE DUP
N	□165-11 □185-11	16' 18'	11 11	11½" 11½"	1"X36"X4" 1"X36"X4"	☐2 7/8"X4" TENON PT27	☐ BLACK RAL-9005-S	GFI RECEPTACLE GFI
T	□ 185-7 □ 205-11	18' 20'	7 11	11½" 11½"	1"X36"X4" 1"X36"X4"	☐OTHER TENON MT	☐ WHITE RAL-9003-S ☐ GREY	⁴ □ 3 WAY ADAPTER T3120 □ 4 WAY ADAPTER
9	□205-7	20'	7	111/4"	1"X36"X4"		DAL 7004 C	☐ 4 WAT ADAPTER

ORDERING INFORMATION

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R		POLE HEIGHT	WALL THICKNESS	BOLT CIRCLE	ANCHORAGE	☐2 3/8"X4" TENON PT23	STANDARD SMOOTH FINISH	☐ DUPLEX RECEPTACLE DUP
N	□165-11 □185-11	16' 18'	11 11	11½" 11½"	1"X36"X4" 1"X36"X4"	□2 7/8"X4" TENON PT27	☐ BLACK RAL-9005-S	☐ GFI RECEPTACLE GFI
Т	□185-7 □205-11	18' 20'	7	11½"	1"X36"X4" 1"X36"X4"	□OTHER TENON MT	☐ WHITE RAL-9003-S	☐ 3 WAY ADAPTER T3120
S	□205-7	20'	7	111/2"	1"X36"X4"		☐ GREY RAL-7004-S	☐ 4 WAY ADAPTER T490
	□255-11 □255-7	25' 25'	11 7	11½" 11½"	1"X36"X4" 1"X36"X4"	DRILL MOUNT □ 1	DRK BRONZE RAL-8019-S	☐ ROUND BASE COVER RBC
						☐2-180 ■■ ☐4-90 ■-1	GREEN RAL-6005-S OPTION:	☐ 1/2" COUPLING CPLN1/2
						□2-90	PRIME PAINT PP	☐ 3/4" COUPLING CPLN3/4
						2-90, 3-90, 4-90 3-120 REQUIRES REQUIRES PT27 PT27 AND AND T490 T3120 ADAPTER ADAPTER	GALVANIZEO GLV THERMOSET POLYESTER POWDER PDR	☐ 2" COUPLING CPLN2 (SPECIFY COUPLING LOCATION) SEE ACCESSORIES SECTION FOR OTHER OPTIONS.
	× .						CONSULT FACTORY FOR CUSTOM COLORS	

WST LED Architectural Wall Sconce









Specifications Luminaire

7-1/4" Height: (18.4 cm) 16-1/4" Width: (41.3 cm)

9-1/8" Depth: (23.2 cm)

17 lbs Weight:



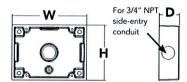
Optional Back Box (BBW)

Height:

(10.2 cm) Width:

5-1/2" (14.0 cm)

1-1/2" Depth: (3.8 cm)



Catalog

Notes

Туре

TYPE K - 1 on Front Elevation 3 at Mechanical Yard

Introduction

The classic Architectural Wall Sconce is now available with the latest in LED technology. The result is a long-life, maintenance-free product with typical energy savings of 75% compared to metal halide versions. The integral battery backup option provides emergency egress lighting, without the use of a back-box or remote gear, so installations maintain their aesthetic integrity.

The WST LED is ideal for replacing existing 50 – 175W metal halide wall-mounted products. The expected service life is 20+ years of nighttime use.

Ordering Information

EXAMPLE: WST LED 2 10A700/40K SR3 MVOLT DDBTXD

Series	Light Engines	Performance Package	Distribution	Voltage	Mounting	Options ³	Finish (requ	iired)
WSTLED	1 One engine (10 LEDs) 2 Two engines (20 LEDs)	700 mA options: 10A700/30K 3000K 10A700/40K 4000K 10A700/50K 5000K	SR2 Type II SR3 Type III SR4 Type IV	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 480	Shipped included (blank) Surface mount Shipped separately ² BBW Surface-mounted back box UTS Uptilt 5 degrees	Shipped installed PE Photoelectric cell, button type 4.5 SF Single fuse (120, 277, 347V) 4 DF Double fuse (208, 240, 480V) 4 DMG 0-10V dimming driver (no controls) ELCW Emergency battery backup 6 WLU Wet location door for up orientation 7 PIR Motion/ambient light sensor 8 DS Dual switching 8 Shipped separately VG Vandal guard WG Wire guard	DDBXD DBLXD DNAXD DWHXD DSSXD DDBTXD DBLBXD DNATXD DWHGXD DSSTXD	Dark bronze Black Natural aluminum White Sandstone Textured dark bronze Textured black Textured natural aluminum Textured white Textured sandstone

Emergency Battery Operation

The emergency battery backup (ELCW option) is integral to the luminaire - no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product.

All ELCW configurations include an independent secondary driver with an integral relay to immediately detect AC power loss. Dual light engines are wired in parallel so both engines operate in emergency mode and provide additional component redundancy. These design features meet various interpretations of NFPA 70/NEC 2008

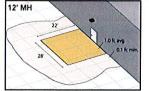
The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time supply power is lost, per International Building Code Section 1006 and NFPA 101 Life Safety Code Section 7.9, provided luminaires are mounted at an appropriate height and illuminate an open space with no

The examples below show illuminance of 1 fc average and 0.1 fc minimum of the single-engine Type IV product in

emergency mode.

WST LED 1 10A700/40K SR4 **MVOLT ELCW** 10' x 10' Gridlines 8' and 12' Mounting Height





NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with photocell (FE), fusing (SF, DF), or dual switching (DS).
- May also be ordered separately as an accessory. Ex: WSBBW DDBXD U. Must specify finish.
- Must be ordered with fixture; cannot be field installed.
- Not available with MVOLT option. Button photocell (PE) can be ordered with a dedicated voltage option. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
- Not available with 480V option. Not available with motion/ambient light
- Integral battery pack is rated for -20° to 60°C operating temperature. ELCW warranty is 3-year period. Not available with 347V or 480V. Not available with WLU.
- WLU not available with PIR or ELCW.
- Specifies the SensorSwitch SFOD-7-ODP control (photocell included); see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with WLU, VG or WG.
- Provides 50/50 luminaire operation via two independent drivers and light engines on two separate circuits. Not available with one engine, MVOLT, engines on two separate circuits. Not evaluate that one single-ELCW, WLU, SF, or DF. Must specify voltage; voltage must be the same for both drivers. When ordered with photocell (PE) or motion sensor (PIR), only the primary power source leads will be controlled.



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.

Light	Drive Current	Performance	System Watts	Dist.	40K (4000K, 70 CRI)													
Engines	(mA)	Package	(MVOLT')	Туре	Nominal Lumens	В	V	G	LPW									
				SR2	2,005	1	0	1	84									
(10150-)	700	10A700/K	24W	SR3	2,029	1	0	1	84									
Light Engines 1 (10 LEDs) 2 (20 LEDs)				SR4	1,959	1	0	1	82									
			2007	SR2	3,944	1	0	1	84									
	700	10A700/K	47W	47W	47W	47W	47W	47W	47W	47W	47W	47W	SR3	4,028	1	0	1	86
(ZU LEDS)			Samo	SR4	3,851	1	0	1	82									

See electrical load chart for 347/480V system watts.

Lumen Ambient Temperature (LAT) Multipliers

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

Amt	oient	Lumen Multiplier
0°C	32°F	1.10
10°C	50°F	1.06
20°C	68°F	1.02
25°C	77°F	1.00
30°C	86°F	0.98
40°C	104°F	0.92

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the WST LED 2 10A700 platform 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	100,000
Lumen Maintenance Factor	1.0	0.94	0.88	0.77

Electrical Load

					Curre	nt (A)		
Light Engines	Drive Current (mA)	System Watts	120	208	240	277	347	480
	700	24W	0.24	0.14	0.12	0.1	•	
Light Engines	700	29W1		-		(5)	0.09	0.07
	700	47W	0.44	0.27	0.23	0.20	-	-
2	700	53W1	-				0.17	0.12

Higher wattage is due to electrical losses from step-down transformer.

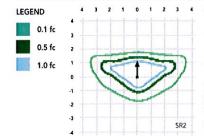
LEGEND

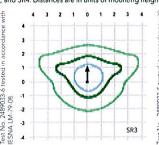
LLDs

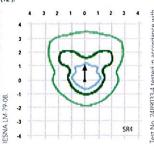
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's WST LED homepage.

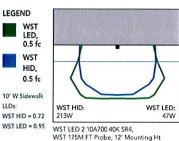
Isofootcandle plots for the WST LED 2 10A700/40K SR2, SR3, and SR4. Distances are in units of mounting height (12').







Distribution overlay comparison to 175W metal halide.



FEATURES & SPECIFICATIONS

INTENDED USE

The classic architectural shape of the WST LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long life LEDs and driver make this luminaire nearly maintenance-free

CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

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 a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

Precision-molded acrylic lenses are engineered for superior distribution, uniformity, and spacing in wall-mount applications. Light engines are 4000K (70 CRI). The WST LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal core circuit board and integral aluminum heat sinks to maximize heat dissipation and promote long life (100,000 hrs at 25°C, L77). Class 2 electronic driver has a power factor >90%, THD <20%. Easilyserviceable surge protection device meets a minimum Category B (per ANSI/IEEE C62.41.2).

INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections.

CSA certified to U.S. and Canadian standards. Light engines are IP66 rated; luminaire is IP65 rated and suitable for wet locations when mounted with the lenses down. WLU option offers wet location listing in "up" orientation. Rated for -30°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 to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Full warranty terms located at 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.



FEATURES

OPTICAL SYSTEM

- Self-flanged, semi-specular or matte-diffuse reflector. Fluted vertical upper section works in conjunction with Patented Bounding Ray™ Optical Principle design (U.S. Patent No. 5,800,050) to provide lamp before lamp image and smooth transition from top of reflector to bottom. Minimum flange matches reflector finish.
- Hinged lampdoor seals upper trim for optimal fixture efficiency and the reduction of stray light in the plenum.

MECHANICAL SYSTEM

- 16-gauge galvanized steel mounting/plaster frame. Maximum 1-1/4" ceiling thickness.
- 16-gauge galvanized steel mounting bars with continuous 4" vertical adjustment are shipped pre-installed. Post-installation adjustment possible without the use of tools from above or below the ceiling.
- Galvanized steel junction box with hinged access covers and spring latch. Two combination 1/2"-3/4" and three 1/2" knockouts for straight-through conduit runs. Capacity: 8 (4 in, 4 out) No. 12 AWG conductors, rated
- Low-profile design allows for 4-3/8" fixture depth above ceiling.

ELECTRICAL SYSTEM

- Horizontally mounted, positive-latch, thermoplastic socket.
- Class P, thermally protected, high-power-factor electronic ballast mounted to the junction box.
- Simply5™ technology available.

LISTING

Fixtures are UL Listed for thru-branch wiring, non-IC recessed mounting and damp locations. Listed and labeled to comply with Canadian standards.

WARRANTY

One-year limited warranty. Full warranty terms located at www.acuitybrands.com/CustomerResources/ Terms_and_conditions.aspx

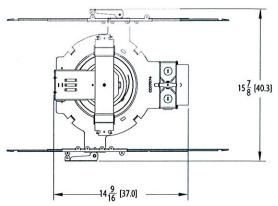
TYPE C - 8 at Canopy

Catalog number

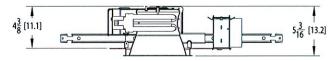
Compact Fluorescent Downlights

Type

Low Profile Horizontal DTT or TRT lamp



Aperture: 6-1/4 (15.9) Ceiling Opening: 7-1/8 (18.1) Overlap Trim: 7-1/2 (19.1)



All dimensions are inches (centimeters)

Ballast³

(blank) Electronic ballast

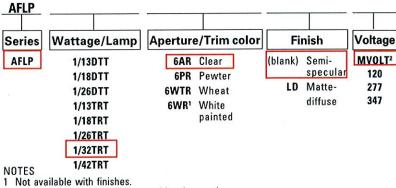
ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number (shipped separately). Example: AFLP 1/26TRT 6AR MVOLT

Options

dimming relay

WRL¹⁰ Wattage restriction label



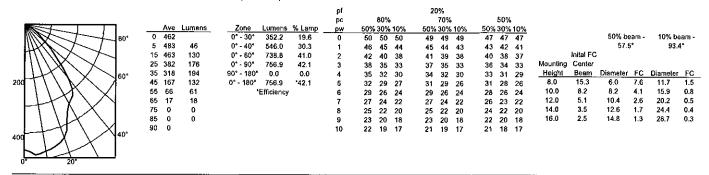
MVOLT² 120 277 347

- Multi-volt electronic ballast capable of operating on any voltage from 120V through 277V, 50 or 60 Hz.
- For additional ballast types, refer to TECH-250.
- Not available with 13W
- Available in 120V or 277V only.
 Simply5™ includes 9' S5 MLC Reloc wiring system (shipped separately). Available in 120V or 277V only. Not available in 13W or 18W. See simply5.net for more information.
- For dimensional changes, refer to TECH-140.
- Not available with emergency options.
 One 5A relay with one 0-10 VDC dimming output, shipped installed. Requires additional nLight bus power supply (nPS80). 10 Must specify wattage. Ex.: WRL32

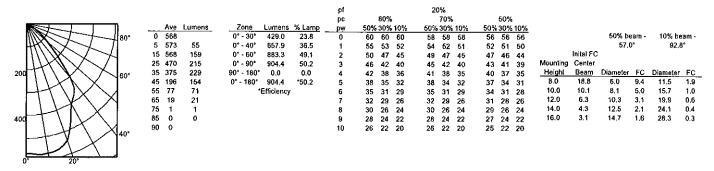
ELR' Emergency battery pack, ECOS2.4 EcoSystem® electronic remote test switch dimming ballast. ELRHL7 High lumen output emergency battery pack, remote test switch Minimum dimming level 5% ADEZ4.5 Advance Mark 10® provided electronic dimming GMF5 Single, slow-blow fuse ballast. Minimum GLR5 Single, fast-blow fuse dimming level 5% TRW White painted flange ADZT4,5 Advance Mark 7® TRBL Black painted flange electronic dimming **DS** Dual switching ballast. Minimum CP8 Chicago plenum dimming level 5% WLP With 3500 K lamp SIMPLY5™ system (shipped separately) ballast. Minimum HW Hardwire for S5 system; dimming level 15% replaces Reloc Sensor Switch nLight™ NSD⁹

Distribution curve Distribution data Output data Coefficient of utilization Illuminance Data at 30" Above Floor for a Single Luminaire

AFLP 1/26TRT 6AR, (1) CF26TRT, 1800 lumens per lamp, 1.1 s/mh, Test No. LTL19056



AFLP 1/32TRT 6AR, (1) CF32TRT, 1800 lumens per lamp, 1.1 s/mh, Test No. LTL19057



AFLP 1/42TRT 6AR, (1) CF42TRT, 3200 lumens per lamp, 1.2 s/mh, Test No. LTL19058

												PI					,,,,										
												рс		80%			70%			50%							
1	1			٦			Ave	Lumens	Zone	Lumens	% Lamp	₽₩	50%	30%	10%	50%	30%	10%	50%	30%	10%						
	W. Sallin	7		$_{8}$ L	0°	0	956		0° - 30°	765.8	23.9	-0	61	61	61	59	59	59	57	57	57			50% be	am -	10% be	am -
	<i>IIIXX</i>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	~ 1	Т	-	5	972	94	0° - 40°	1179,5	36.9	1	55	54	53	54	53	52	52	51	50			60.1	D	93,9)°
	T) [T	\sim	. 7	J		15	1001	281	0° - 60°	1592.1	49.8	2	51	48	46	50	47	45	48	46	44		Inital FC				
	IIV	/X	X	Т		25	854	391	0° - 90°	1628.4	50.9	3	46	43	41	45	42	40	44	41	40	Mounting	Center				
į.	14	1 /	$\checkmark \setminus$	J6	٥٥	35	674	414	90° - 180°	0.0	0.0	4	42	39	36	41	38	36	40	38	35	Height	<u>Beam</u>	Diameter	FC	Diameter	FC
400	ΠΙ,	ヽレ	$^{\prime}$	Ŋ۲	U	45	358	282	0° - 180°	1628.4	50.9	5	39	35	32	38	35	32	37	34		8.0	31.6	6.4	15.B	11.8	3.2
- 1	1.1	\mathcal{N}	\mathcal{N}	Т		55	142	130	•	Efficiency		6	35	32	29	35	31	29	34	31	29	10.0	17.0	8.7	8.5	16.1	1.7
	1+	$\langle \langle \rangle \rangle$	$\setminus \angle \setminus$	1		65	32	35		•		7	33	29	26	32	29	26	32	28	26	12.0	10.6	11.0	5.3	20.4	1.1
- [/	X X	X	1		75	1	1				8	30	27	24		26			26		14.0	7.2	13.3	3.6	24.6	0.7
	1	\ X		J		85	0	0				9	28	24	22		24			24		16.0	5.2	15.6	2.6	28.9	0.5
		7T	\ X	1		90	0					10	26	23	20		23			22							
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0	•	20°		_																							

NOTES:

- 1 For electrical characteristics, refer to Technical Bulletins tab.
- 2 Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications are based on the most current available data and are subject to change without notice.
- 3 Consult factory or IES file for microgroove baffle, black cone and other photometric reports.
- 4 Actual performance may differ as a result of end-user environment and application.





TypeTyPE XF02 - 8 at RAT Towers	Date
Model #	Prepared by
Project	
Comments	

Urban Act[™] Mini

Specification Features for 20, 39, and 70 Watt Ceramic Metal Halide lamps

General: Two-piece die-cast aluminum housing consisting of a reflector compartment with integral cooling fins connected with stainless steel screws to a separate cylindrical ballast housing of similar design. Mounting yoke is connected to finned ballast housing with hand tightened, tool-less adjustment mechanism. For re-lamping and focusing, lamp compartment is accessed via a tool-less latch.

Optics: All reflectors are precisely spun aluminum, fully specular, anodized aluminum with a smooth, faceted or dimpled surface. Three stainless steel screws are provided for precise leveling and focusing the Ceramic Metal Halide lamp arc tube within the reflector.

Lamp Enclosure: One-piece die-cast aluminum with integral drainage slots and a one-piece molded U-channel, high temperature silicone rubber gasket. Enclosure door contains convex tempered clear glass lens, $1/4^{\prime\prime}$ thick with snap lock tool-less release.

Electrical: Ballast is electronic, HPF with self configuration to supply voltage. Lamp holder is G12 base, porcelain with nickel plated contacts. All wiring is rated for 90° C.

Mounting Yoke: 3/16" stainless steel allows for 360° rotation around the center axis and full vertical adjustment with the finned, die-cast discs ideally sized for hand tightening. The yoke is pre-drilled for mounting to various EYE mounting accessories.

Finish: Electro statically applied, polyester powder coated. Available in two standard colors: White (WH) and Dark Gray (DG) with optional colors available. Add appropriate suffix to catalog number as shown.

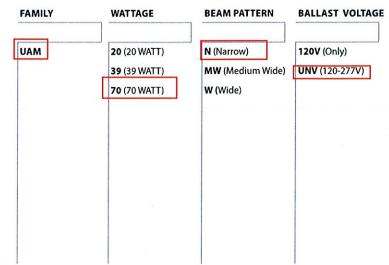
ETL Listed, suitable for wet locations and any mounting orientation.

Specification Language: Luminaire shall be ETL Listed wet location with an IP65 rating that incorporates an integral electronic ballast in a separate ballast compartment for Ceramic Metal Halide lamps. Luminaire shall be able to operate a 20, 39, or 70 Watt G12, CMH lamp. The optic shall be a spun, fully specular, anodized aluminum reflector with minimum reflectance of 90%. Housing and door frame shall be a low copper die-cast aluminum, polyester powder coated, with water tight strain relief and a SEOOW external cord.

Model Number: UAM - XXX - XX - XXX - XX or equal.

Protection Class: IP65

Urban Act Mini Ordering Information: Options and Lamps





EYE Interior or Exterior Floodlighting Luminaires

Accessories (Field Installed)

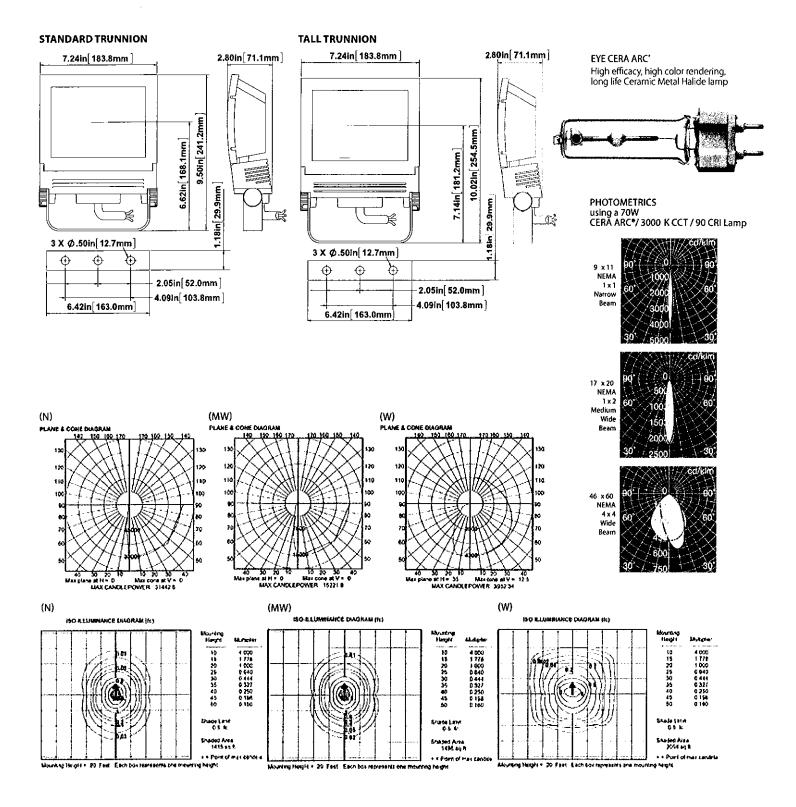
- •BT Truss System
- •MF Mini Flange
- O2, O3, I2 Outdoor or Indoor Arm
- ·SHM Shield
- •TF Tall Flange
- · VIM Visor
- UAM-ACH Accessory Holder
- UAM-BD Barn Doors
- UAM-BS Beam Softener
- UAM-CL-XXXXX Dichroic Colored Glass
- · UAM-GLSH Glare Shield
- UAM-LSL Linear Spread Lens

FINISH	LAMP	OPTIONS (Factory Insta
		OT FIGHTS (Factory in Sec
STANDARD	20W	CD-5BK = 5 foot cord
DG (Dark Gray)	1A CMH20T/U/830/G12	CD-7BK = 7 foot cord
WH (White)	39W	CD-9BK = 9 foot cord
OPTIONS	2A CMT35/U/830/G12	
Black (RAL9005)	2B CMT35/U/NR936/G12	AML = Aim Lock
Charcoal (RAL7043)	2C CMT35/U/942/G12	TPR = Tamper Proof
Dark Bronze (RAL8019)	70W	TTA = Tall
Gray (RAL7000)	4A CMT70/U/928/G12	Trunnion Adapter
	4B CMT70/U/930/G12	PMB/TTA = Post Top
	4C CMT70/U/935/G12	Tenon with
	4D CMT70/U/NR/936/G12	Tall Trunnion
	4E CMT70/U/942/G12	

^{*} Standard cord length is 3 ft, factory options available for other lengths.



Urban Act[™] Mini EYE Interior or Exterior Floodlighting Luminaires Specification Features for 20, 39, and 70 Watt CMH lamps



EYE Lighting International of North America, Inc.

a division of Iwasaki Electric of Japan

9150 Hendricks Road Mentor, Ohio 44060 Tel: (888) 665-2677 Fax: (440) 350-7001

www.eyelighting.com



TYPE XE03 - 6 at BAT Towers

Typo	TI E XI 00 - 0 at TIAT Towers	Date	
Model #		Prepared by	
Project			
Comment	•		

Urban Act[™] Square

Specification Features for 70, 100, and 150 Watt Ceramic Metal Halide lamps

General: Two-piece die-cast aluminum housing consisting of a reflector compartment with integral cooling fins connected with stainless steel screws to a separate cylindrical ballast housing of similar design. Mounting yoke is connected to finned ballast housing with hand tightened, tool-less adjustment mechanism. For re-lamping and focusing, lamp compartment is accessed via a tool-less latch.

Optics: All reflectors are precisely spun aluminum, fully specular, anodized aluminum with a faceted or dimpled surface. Three stainless steel screws are provided for precise leveling and focusing the Ceramic Metal Halide lamp arc tube within the reflector.

Lamp Enclosure: One-piece die-cast aluminum with integral drainage slots and a one-piece molded U-channel, high temperature silicone rubber gasket. Enclosure door contains convex tempered clear glass lens, 1/4" thick with snap lock tool-less release.

Electrical: Ballast is electronic, HPF with self configuration to supply voltage. Lamp holder is medium base, porcelain with nickel plated contacts. All wiring is rated for 90°C.

Mounting Yoke: 3/16" stainless steel, allows for 360° rotation around the center axis and full vertical adjustment with the finned, die-cast discs ideally sized for hand tightening. The yoke is pre-drilled for mounting to various EYE mounting accessories.

Finish: Electro statically applied, polyester powder coated. Available in two standard colors: White (WH) and Dark Gray (DG) with optional colors available. Add appropriate suffix to catalog number as shown.

ETL Listed, suitable for wet locations and any mounting orientation.

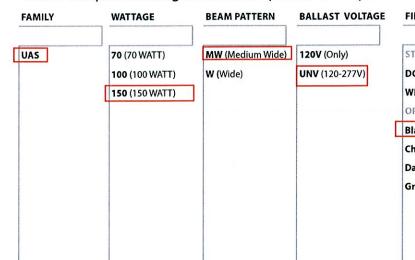
Specification Language: Luminaire shall be ETL Listed wet location with an IP65 rating that incorporates an integral electronic ballast in a separate ballast compartment for Ceramic Metal Halide lamps. Luminaire shall be able to operate a 70, 100, or 150 Watt medium base, CMH lamp. The optic shall be a spun, fully specular, anodized aluminum reflector with minimum reflectance of 90%. Housing and door frame shall be a low copper die-cast aluminum, polyester powder coated, with water tight strain relief and a SEOOW external cord.

Model Number: UAS - XXX - XX - XXX - XX or equal.

Protection Class: IP65

* Standard cord length is 3 ft, factory options available for other lengths.

Urban Act Square Ordering Information: Options and Lamps





EYE Interior or Exterior Floodlighting Luminaires

Accessories (Field Installed)

- •BT Truss System
- F Flange
- · 02, 03, 12 Outdoor or Indoor Arm
- · SHS Shield
- •TF Tall Flange
- · VIS Visor
- · UAS-ACH Accessory Holder
- UAS-BD Barn Doors
- · UAS-BS Beam Softener

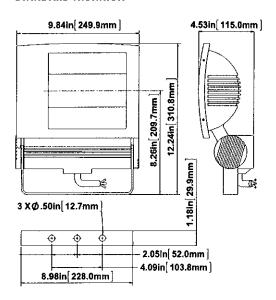
•UAS-CL-XXX	XX – Dichroic Colored Glass	BLUE
· UAS-GLSH -	Glare Shield	LENS
• UAS-LSL – Li	near Spread Lens	
• UAS-SN - Sn	oot	
INISH	LAMP	OPTIONS (Factory Install)
	Salantina de la companya de la compa	
TANDARD	70W	CD-5BK = 5 foot cord
G (Dark Gray)	4J CMTPF70/U/932/MED	CD-7BK = 7 foot cord
VH (White)	4L CMTPF70/U/NR936/MED	CD-9BK = 9 foot cord
PTIONS	4N CMTPF70/U/943/MED	
lack (RAL9005)	100W	AML = Aim Lock
harcoal (RAL7043)	5C CMTPF100/U/935/MED	TPR = Tamper Proof
ark Bronze (RAL8019)	5D CMTPF100/U/942/MED	TTA = Tall
iray (RAL7000)	150W	Trunnion Adapter
	6B CMTPF150/U/928/MED	PMB/TTA = Post Top
	6D CMTPF150/U/NR936/MED	Tenon with
11	6F CMTPF150/U/943/MED	Tall Trunnion

6H CMTPF150/U/955/MED

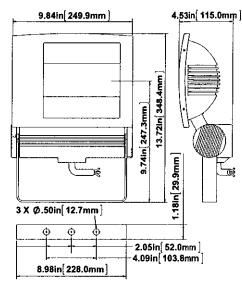


Urban Act[™] Square EYE Interior or Exterior Floodlighting Luminaires Specification Features for 70, 100, and 150 Watt CMH lamps

STANDARD TRUNNION



TALL TRUNNION

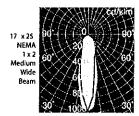


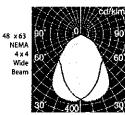
EYE CERA ARC' High efficacy, high color rendering,

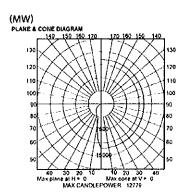
long life Ceramic Metal Halide lamp

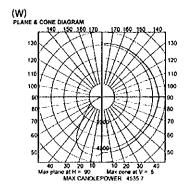


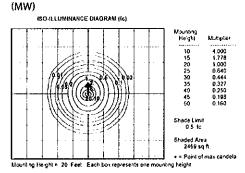
PHOTOMETRICS using a 150W CERA ARC®/ 2800 K CCT / 95 CRI Lamp

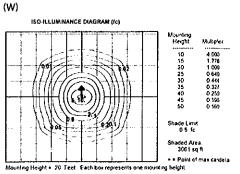












EYE Lighting International of North America, Inc.

a division of Iwasaki Electric of Japan

9150 Hendricks Road Mentor, Ohio 44060

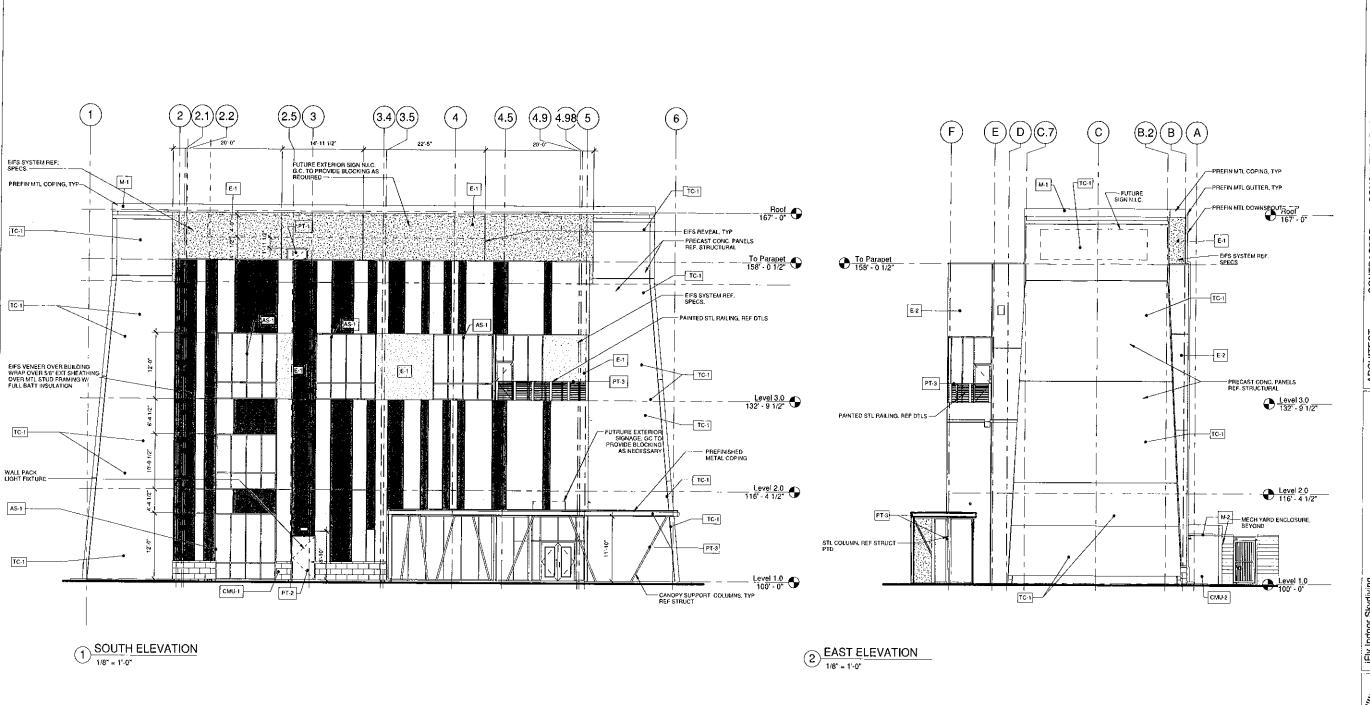
Tel: (888) 665-2677 Fax: (440) 350-7001

www.eyelighting.com



CHESTERFIELD MALL RING ROAD CHESTERFIELD, MO 63017-4897

COLORED ELEVATIONS



MATERIALS LEGEND	
TC-1 CONGRETE PANEL	
E-1 EIFS	
E-2 EIFS	
E-3 EIFS	
CMU-1 MASONRY VENEER	
CMU-2 MASONRY - FULL BLOCK	
	l

		MATE	RIAL SCHEDULE-EXTERIOR	
		MANUFACTURE		
Mark	N	R	COLOR/FINISH	COMMENTS
CONCRET	E PANEL			
TC-1	CONCRETE PANEL		TEXTURE COAT TO MATCH GLIDDEN STONE HARBOR 10YY 48:071	CAST IN PLACE WALL PANELS
EIFS		·	·	—····
E-1	EIFS	TBD	CUSTOM COLOR TO MATCH GLIDDEN STONE HARBOR 10YY 48/071	
E-2	EIF\$	PPG	PPG BLUEBERRY BUSH #247-6	
E-3	EIFS	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH PANTONE 280C	
E-4	EIFS	GLIDDEN	EIFS TO MATCH GLIDDEN A1772 KITTEN WHITE	
Masonry	•	***	·	,
CMU-1	Masonry	TRENDSTONE	GREY MARBLE	CONCRETE UNIT VENEER MASONRY BURNISHED FACE
CMU-2	Masonry	TRENDSTONE	GREY MARBLE	FULL BLOCK B' BURNISHED FACI
METAL				
M-1	METAL	BERRIDGE	ZINC-COTE	
M-2	METAL	BERRIDGE	COLOR TO MATCH CMU-2	
PAINT	•			
PT-1	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH GLIDDEN STONE HARBOR 10YY 48/071	
PT-2	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH CMU-1	
PT-3	PAINT	TNEMEC	CUSTOM COLOR TO MATCH GLIDDEN #A1772 "KITTEN WHITE"	
STOREFRO				
AS-1		Old Castle	CLEAR ANODIZED ALUM	
4S-2	STOREFRONT	TBD per details	CLEAR ANODIZED ALUM	

General Elevation Notes
1. NOT ALL MATERIALS LISTED IN MATERIAL SCHEDULE MAY BE USED. RE: ELEVATIONS
2. ALL EXPOSED METAL TO SE GALVANIZED, PRIMED, & TWO (2) COAT PAINTED AS SCHEDULED (NON-PREFINISHED

D. PRIMED. & TWO PREFINISHED METALS ONLY)

3. CMU WALLS ARE TO HAVE RECEIVED THEIR CLEAR WATER REPELLANT COATING PRIOR TO INSTALLATION OF ALL SHEET METAL WORK, WALL ATTACHEMENT STEEL ITEMS, ANCHORS, ETC.

4. ALL EXPOSED UTILITIES METALS ON BUILDING ARE TO BE TWO (2) COAT PAINTED TO MATCH WALL COLOR OR AS SHOWN IN ELEVATIONS. REF ELEVATION SHEETS.

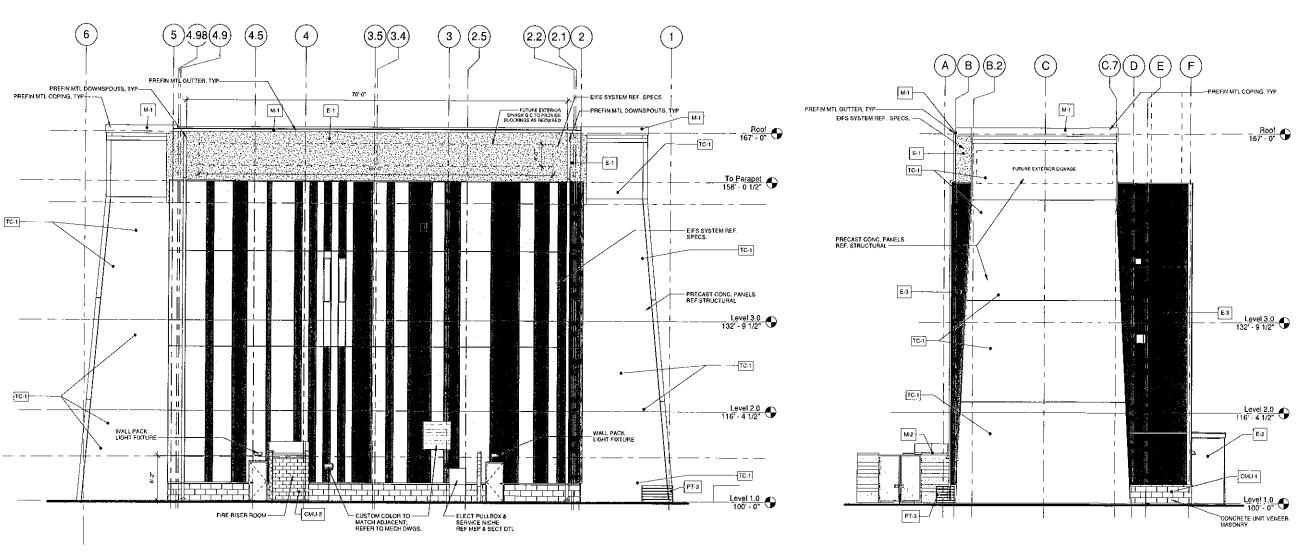
S. AT ALL VERTICAL PARAPET EDGE STEPS, PROVIDE PREFINISHED MTL COUNTERFLASHING LAPPED UNDER MTL PARAPET COPING MIN 4" 6 SEAL. TURN COUNTERFLASHING UP ON PARAPET EDGE MIN 4", VEGGE & SEAL INTO REGLET. WHEN PARAPET STEP IS 6" OR LESS. EXTEND COUNTERFLASHING UP UNDER PREFINISHED MTL PARAPET COPING ABOVE. SEAL ALL EXPOSED FLASHING EDGES.

_,	iFly Indoor Skydiving	ARCHITECT	CONTRACTOR	CONSUL	ONSULTING ENGINEERS	S	
er. 01	Saft River Pima - Maricopa Indian Community		ARCO	CAVIL	KIMLEY HORN "748 N. 16TH STREET PHOENIZ, AZ RVIZO P. 802 944-5550 F. ADP 944 7423	WEP CHONGER	W T EMONE ERING, LLC 2875 PRATIJA AVE HOFFMAN ESTATES, 1, 1 P: 224 292 A333 F: 224 2
МИН, М/S,		A B C H - T E G T S 900 N ROCK HILL HOAD	MURRAY	STRUCTURAL	MARTIN - MARTIN 12479 WEST DOLFAX AVE. LAKEWIGGI, COMOTS P. 303-431-4110 F. 301-494-VIZ3		
17/10	9206 EAST TALKING STICK WAY SCOTISUALE, ARIZONIA 85286	ST. LOUIS, MO 63119 (P) 314-R72-5191 (P) 314-965-4798 WWW.GMADESIGN.COM	DOWNERS CROVE. IL 60515 P. 331-81-2726 WWW.ANCOMURRAY.com	DESKON ARCHITECT	OCCOM ARCHITECT JENSEN (FEY 77% LEAN WAYN HE RECONOM), WAS 400-YE ASSAURACHE S, 425-716-4014 S	FIRE PROTECTION	

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A-2 Exterior Elevations



MATERIALS LEGEND

TC-1 CONCRETE PANEL

E-1 EIFS

CMU-1 MASONRY VENEER

CMU-2 MASONRY - FULL BLOCK

E-2 EIFS

E-3 EIFS

NORTH ELEVATION

1/8" = 1'.0"

2 WEST ELEVATION

1/8" = 1'-0"

	DESCRIPTIO	MANUFACTURE		
Mark	N	R	COLOR/FINISH	COMMENTS
CONCRETI	E PANEL			
TC-1	CONCRETE PANEL		TEXTURE COAT TO MATCH GLIDDEN STONE HARBOR 10YY 48 071	CAST IN PLACE WALL PANELS
EIF\$				
E-1	EIFS	TBD	CUSTOM COLOR TO MATCH GLIDDEN STONE HARBOR 10YY 48'071	
E-2	£IF\$	PPG	PPG BLUEBERRY BUSH #247-6	
E-3	EIFS	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH PANTONE 280C	
E-4	EIFS	GLIDDEN	EIFS TO MATCH GLIDDEN A1772 KITTEN WHITE	
Masonry	•			
CMU-1	Masonry	TRENDSTONE	GREY MARBLE	CONCRETE UNIT VENEER MASONRY BURNISHED FACE
CMU-2	Masonry	TRENDSTONE	GREYMARBLE	FULL BLOCK 8" BURNISHED FACI
METAL	,			
M-1	METAL	BERRIDGE	ZINC-COTE	
M-2	METAL	BERRIDGE	COLOR TO MATCH CMU-2	
PAINT				
PT-1	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH GLIDDEN STONE HARBOR 10YY 48:071	
PT-2	PAINT	SHERWIN WILLIAMS	CUSTOM COLOR TO MATCH CMU-1	
PT-3	PAINT	TNEMEC	CUSTOM COLOR TO MATCH GLIDDEN #A1772 "KITTEN WHITE"	
STOREFRO	TAC	•		·
AS-1	STOREFRONT	Old Castle	CLEAR ANODIZED ALUM	
40.0	OTODEFDONE	TDD	ALTER ALIABORES ALLER	

MATERIAL SCHEDULE-EXTERIOR

General Elevation Notes

1. NOT ALL MATERIALS LISTED IN MATERIAL SCHEDULE MAY BE USED, RE: ELEVATIONS

2. ALL EXPOSED METAL TO BE GALVANIZED, PRIMED, & TWO (2) COAT PAINTED AS SCHEDULED (NON-PREFINISHED METALS ONLY)

3. CMU WALLS ARE TO HAVE RECEIVED THEIR CLEAR WATER REPELLANT COATING PRIOR TO INSTALLATION OF ALL SHEET METAL WORK, WALL ATTACHEMENT STEEL ITEMS, ANCHORS, ETC.

4. ALL EXPOSED UTILITIES METALS ON BUILDING ARE TO BE TWO (2) COAT PAINTED TO MATCH WALL COLOR OR AS SHOWN IN ELEVATIONS. REF ELEVATION SHEETS.

5 AT ALL VERTICAL PARAPET EDGE STEPS, PROVIDE PREFINISHED MTL COUNTERFLASHING LAPPED UNDER MTL PARAPET COPING BIM 4" 5 SEAL. TURN COUNTERFLASHING UP ON PARAPET EDGE MIN 4". WEDGE A SEAL INTO REGLET. WHEN PARAPET STEP IS 8" OR LESS, EXTEND COUNTERFLASHING UP UNDER PREFINISHED MTL PARAPET COPING ABOVE. SEAL ALL EXPOSED FLASHING EDGES.

ARCONTRACTOR
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M UR R A Y
STORMAR GROVEL BSSTE
DOWNERS GROVEL BSSTE
PRIMAR STORMAR GROVEL
WINNERS GROVEL BSSTE
PRIMAR STORMAR GROVEL
PRIMAR

ARCHITECT

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A-3
Exterior Elevations

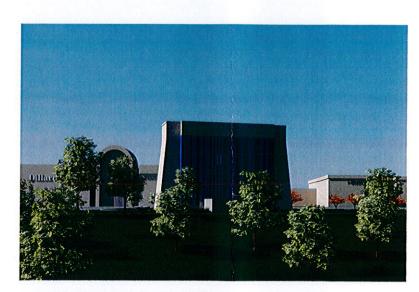
UNDER MTL
ERFLASHING
NTO REGLET.

ITL PARAPET
EDGES.





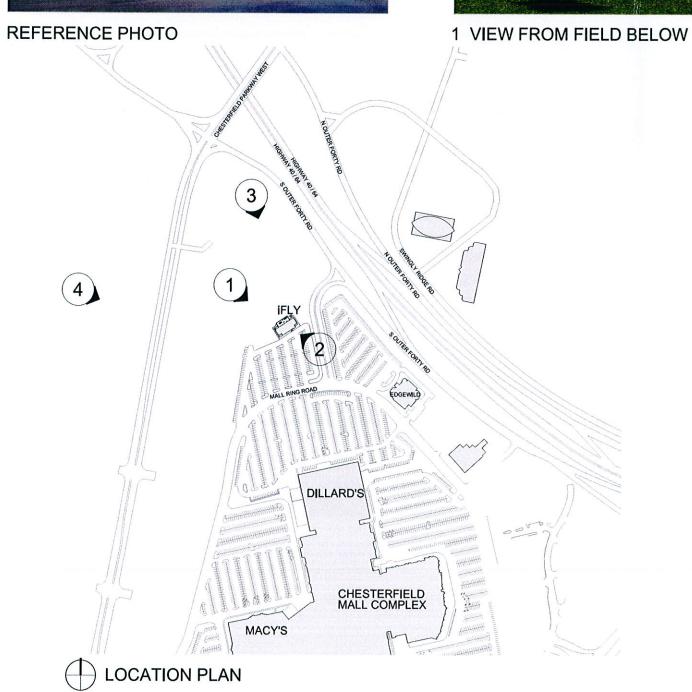
2 VIEW OF ENTRY

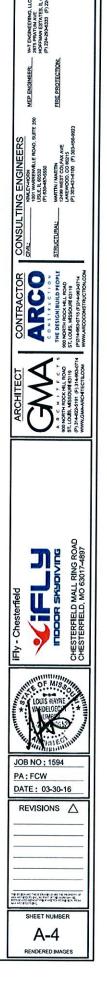


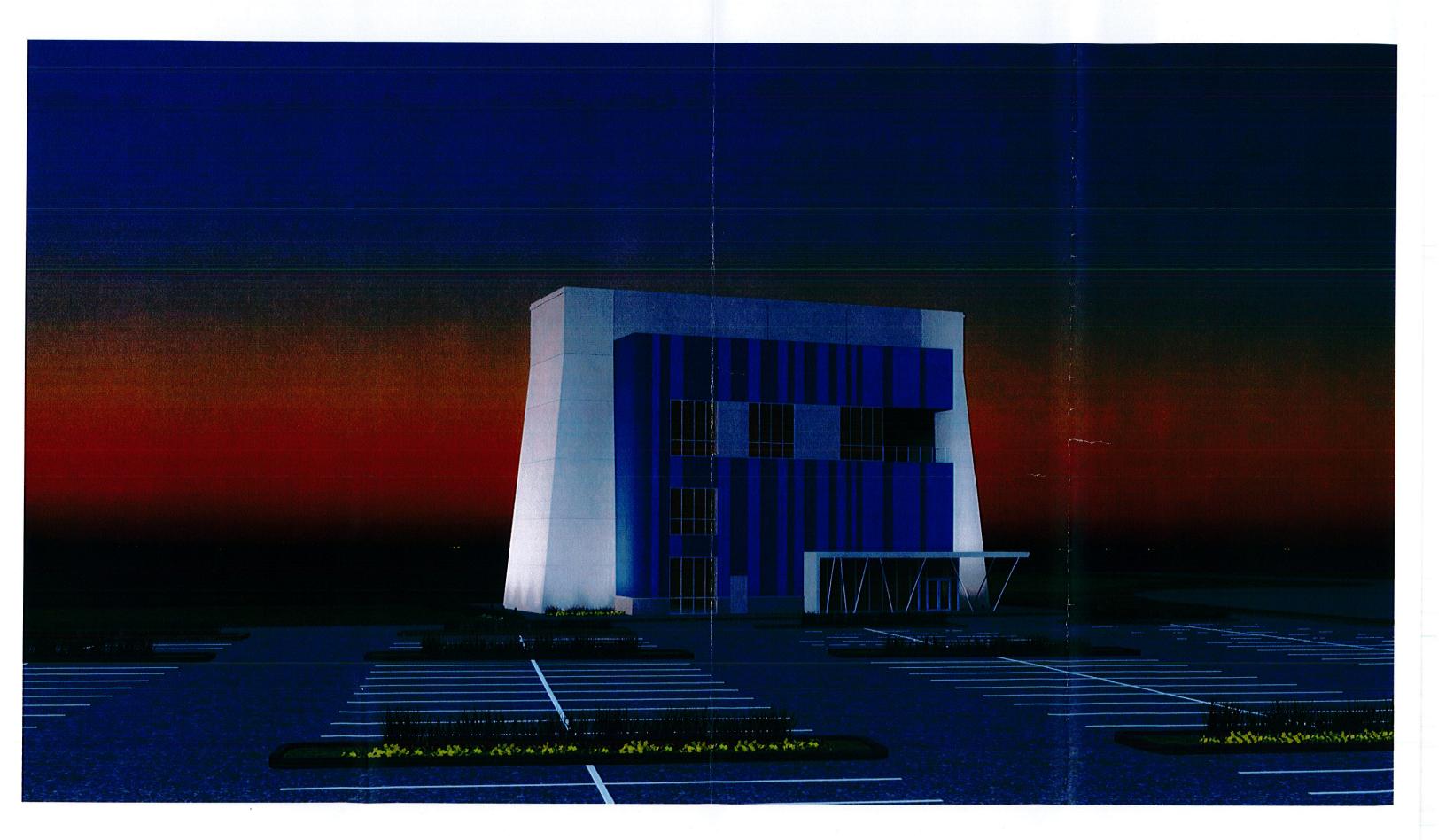
3 VIEW FROM S OUTER 40

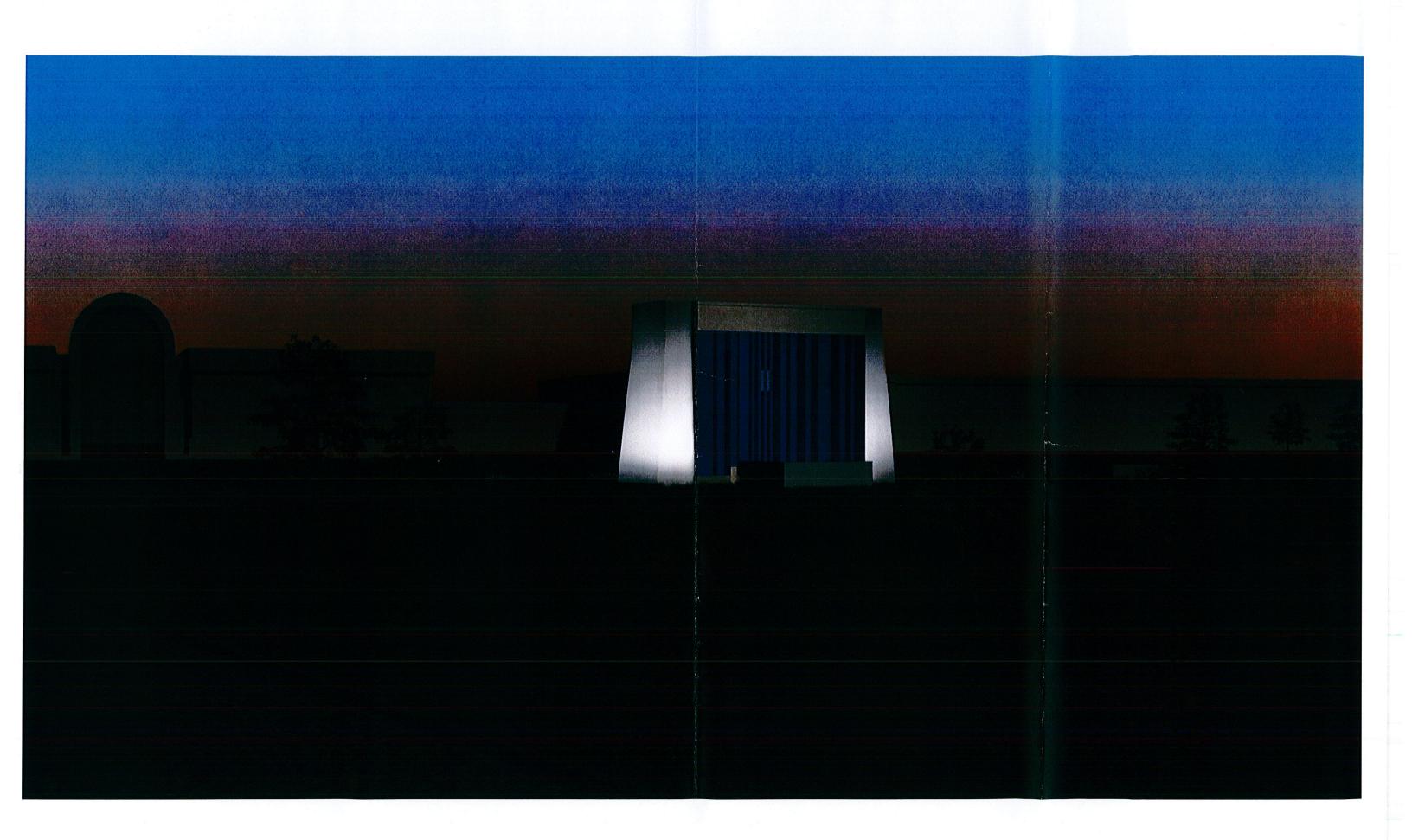


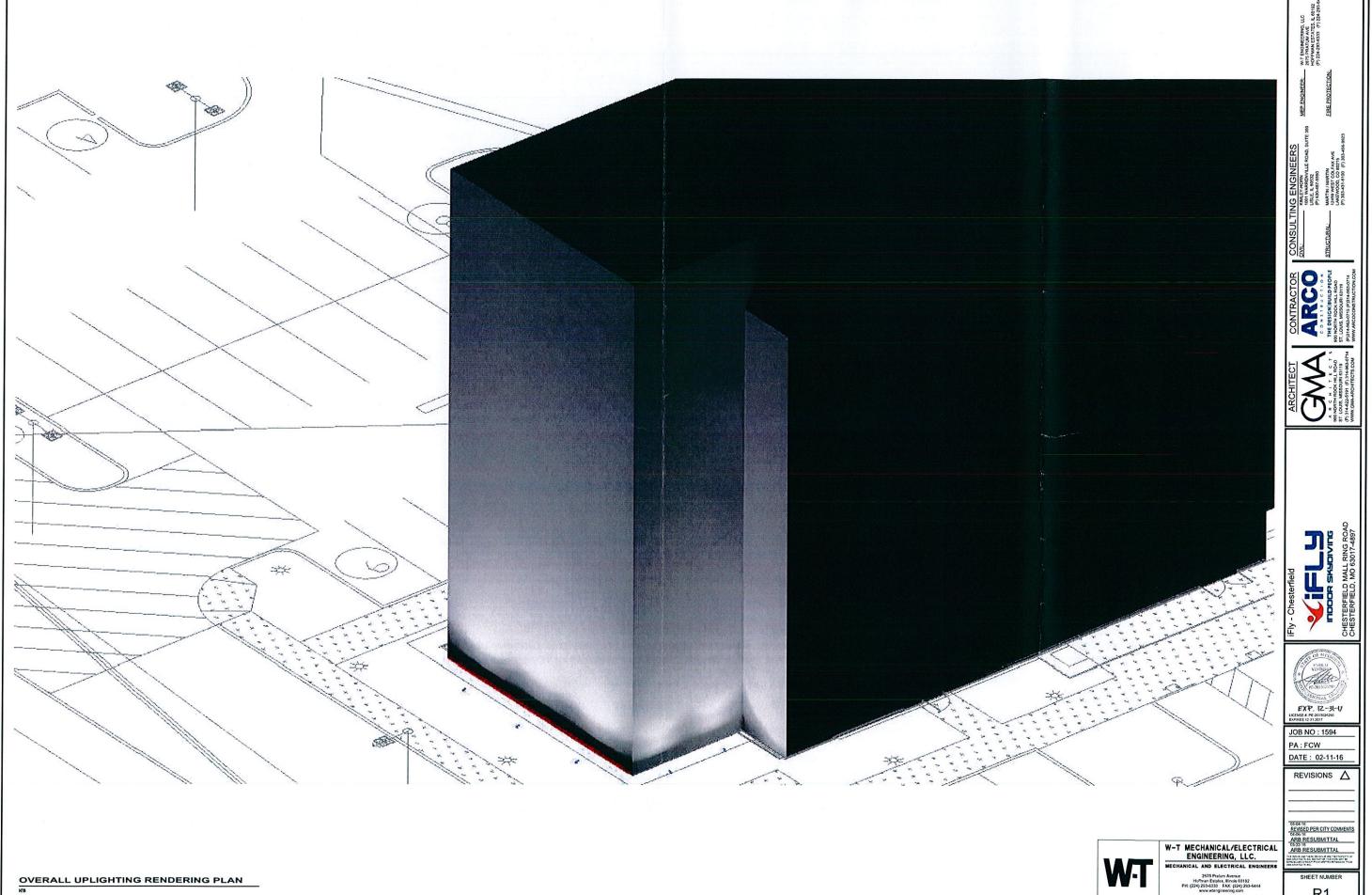
4 AERIAL VIEW OF HILL SIDE





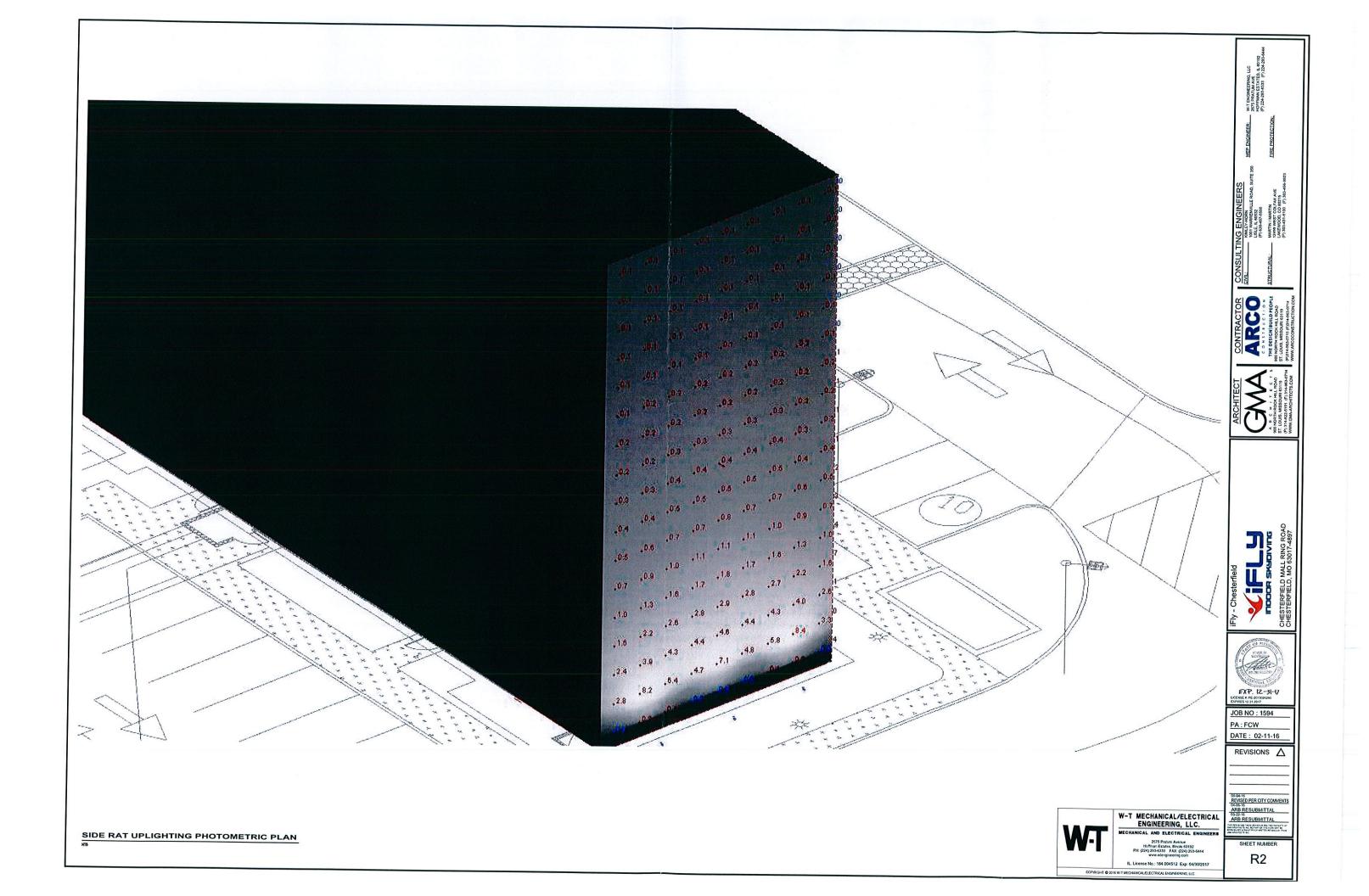


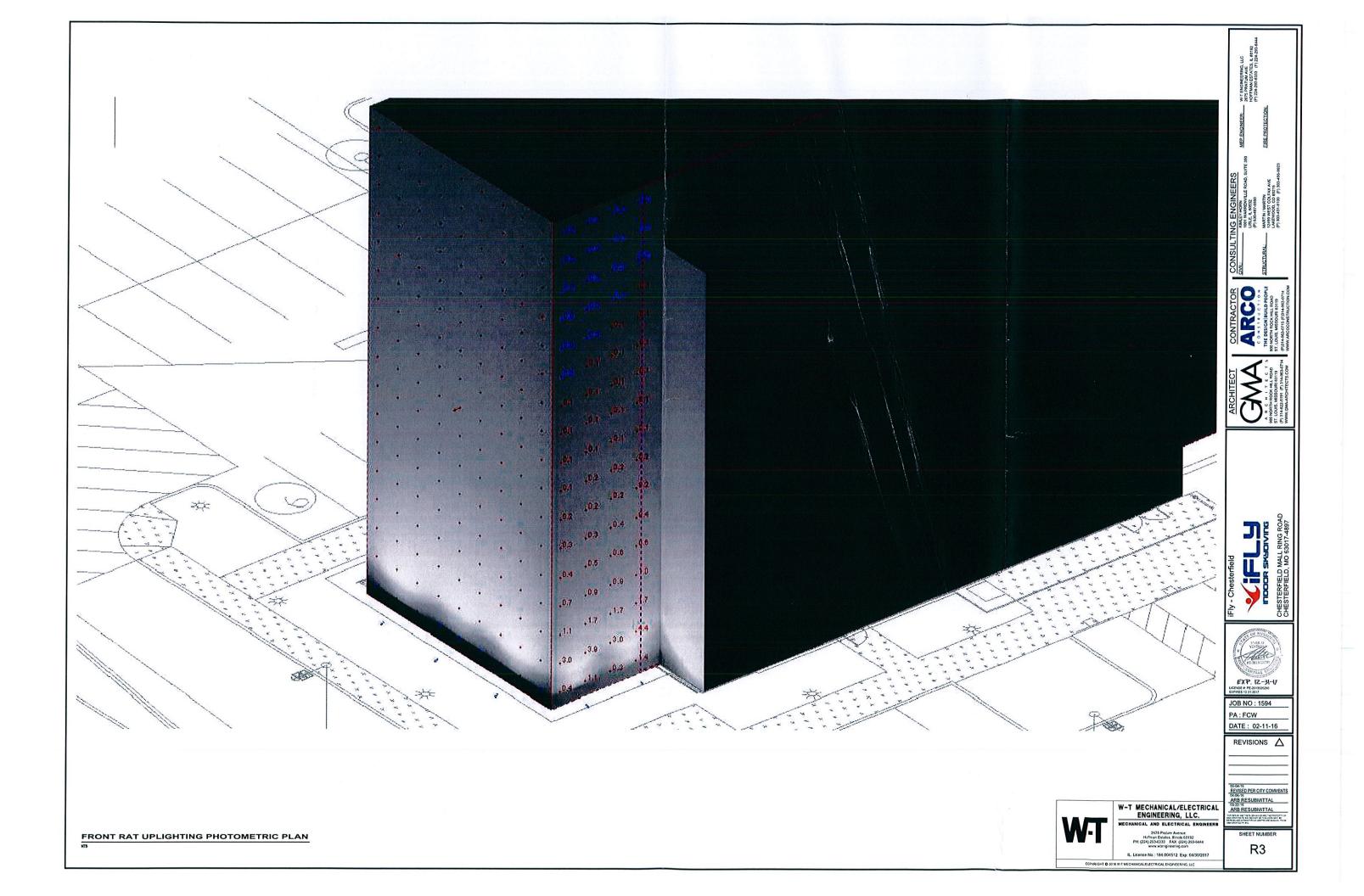


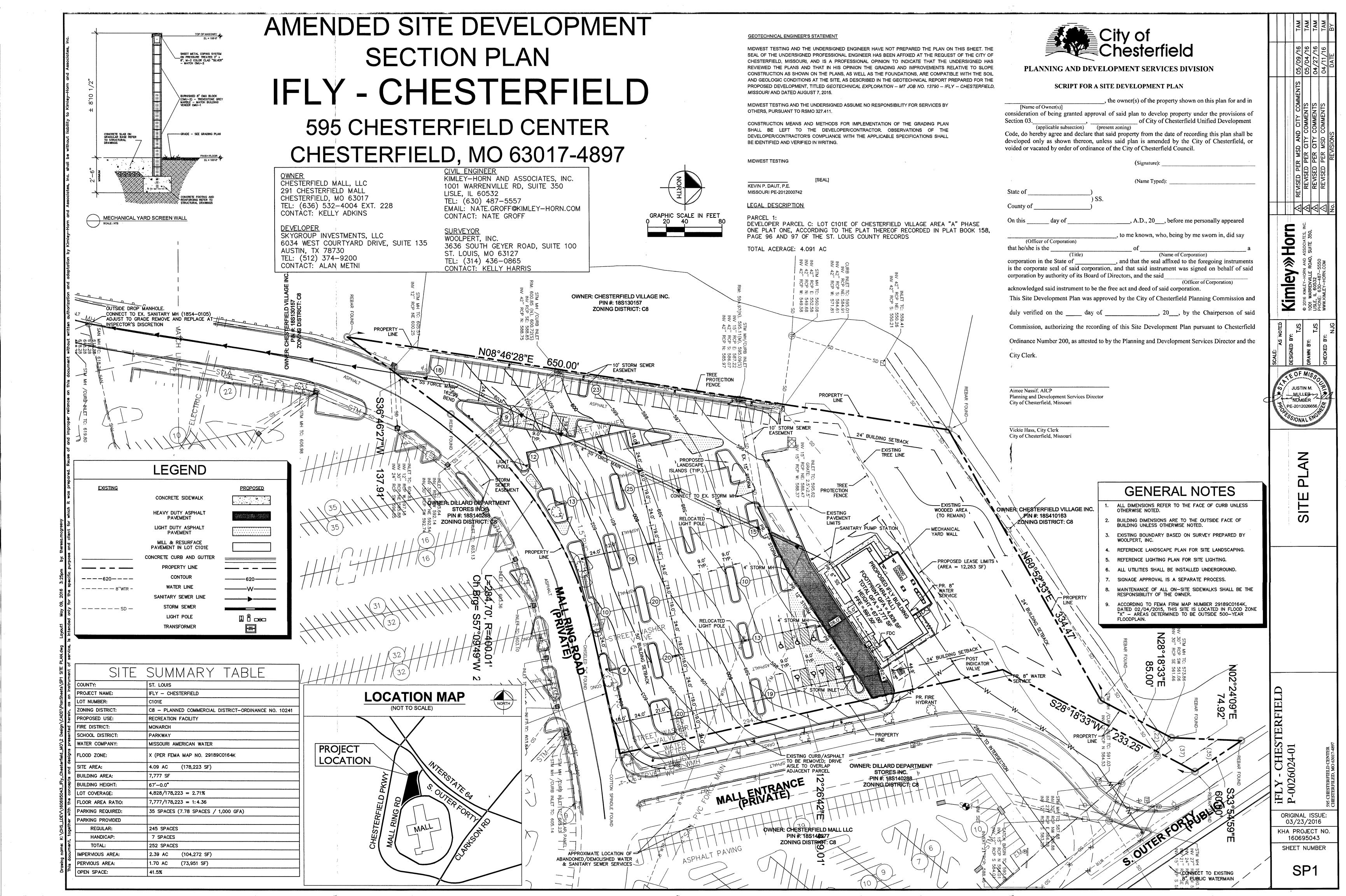


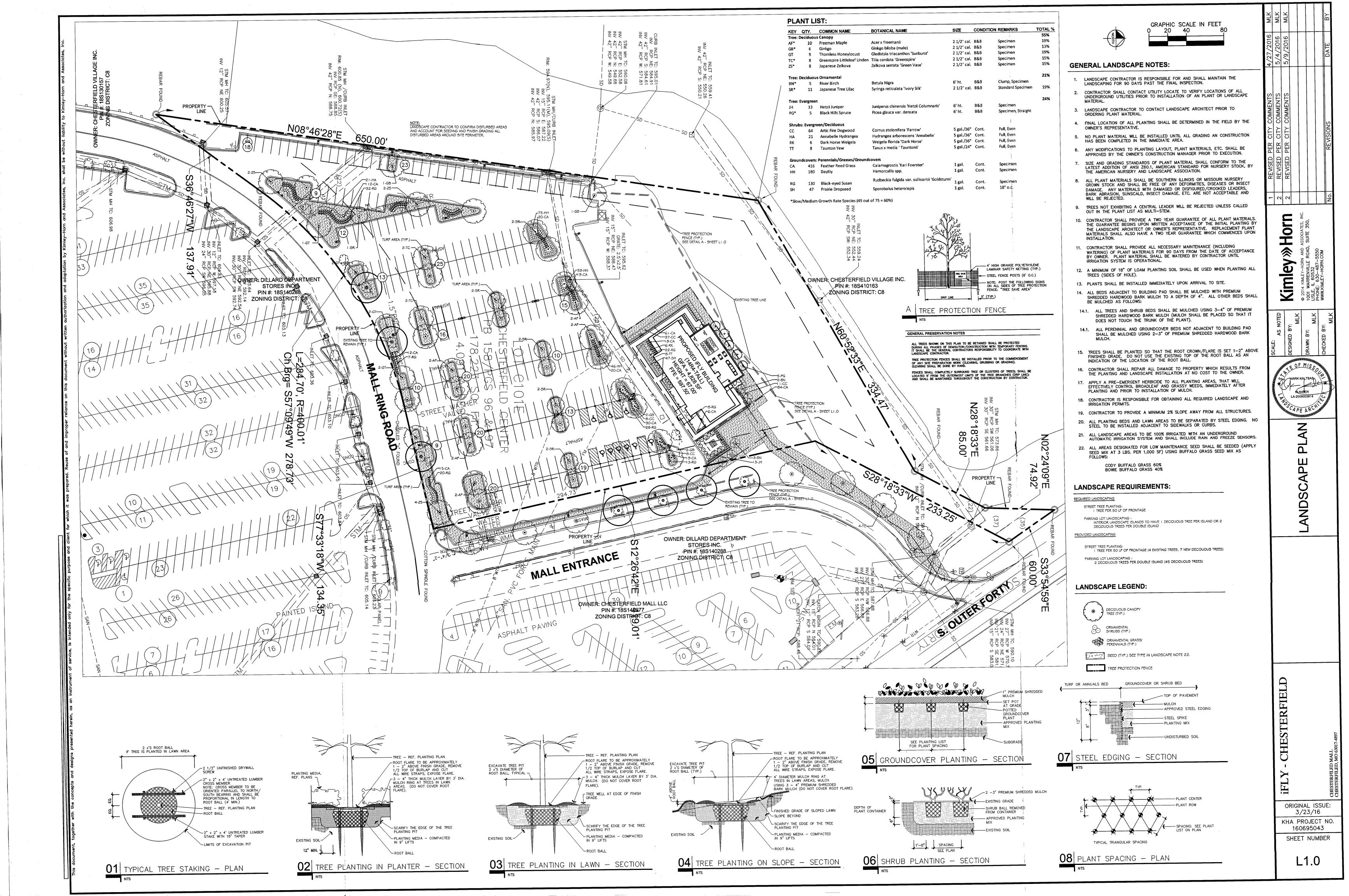
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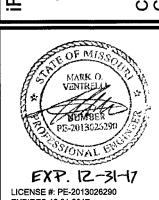


1.9 1.2 Let 1.7 1.6 1.4 2.9 1.5 1.7 1.6 1.4 2.9 1.6 2.7 1.0 1.4 1.7 1.8 1.8 2.1 1.8 1.9 1.8 1.4 1.0 b.8 b.8 b.8 1.0 1.4 1.6 1.8 2.2 2.3 1.8 1.1 b.6 1.4 2.2 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2.3 1.8 2. b₃ 1₁₀ 1₁₅ 2₂₀ 2₂₀ 2₂₀ 1₃ 5₂₀ 5₂₀ 1₁₃ 5₂₀ 5₂₀ 1₁₄ 1₃ 1₁₄ 1₁₅ 1₁₆ 1₁₈ 1₁ 1₁₆ 1₁₈ 1₁₁ 1₁₂ 1₁₄ 1₁₅ 1₁₈ 1₁₉ 1₁₉ 2₁₁ 2₂₀ 1₁₄ 1₁₅ 1₂₀ 1₁₄ 1₁₅ 1₁₆ 1₁₈ 1₁₁ 1₁₂ 1₁₄ 1₁₅ 1₁₈ 1₂₁ 1₂₂ 1₁₄ 1₁₅ 1₂₁ 1₂₂ 1₁₄ 1₁₅ 1₂₁ 1₂₂ 1₁₄ 1₁₅ 1₂₂ 1₁₄ 1₁₅ 1₂₁ 1₂₂ 1₁₄ 1₁₅ $\begin{array}{c} 1_{10} \ 1_{12} \ 1_{14} \ 1_{17} \ 3_{12} \ \frac{1}{3_{13}} \ \frac{1}{3_{13}} \ \frac{3}{3_{15}} \ \frac{3}{3_{16}} \ \frac{5}{3_{16}} \ \frac{3}{3_{15}} \ \frac{3}{3_{15}} \ \frac{3}{3_{15}} \ \frac{1}{3_{15}} \$

TYPE L: 20'0" MOUNTING HEIGHT

Luminaire Sche	dule					
Symbol	Qty	Label	Arrangement	LLF	Description	Lum. \
- -€	2	L2	SINGLE	0.850	RSB25-iI-80VLED-NW-525mA	125.6
<u> •</u>	11	L4	SINGLE	0.850	RSB25-IV-80VLED-NW-525mA	125.9
0-0	4	L22	2 @ 180 DEGREES	0.850	RSB25-II-80VLED-NW-525mA	125.6
0-0	2	L42	D180	0.850	RSB25-IV-80VLED-NW-525mA	125.9
‰	8	EX	3 @ 120 DEGREES	0.700	GRL-XX-1000-MH-XX-3F-FG-XX-X	1000
•	8	С	SINGLE	0.850	AFLP 1_32TRT 6AR MVOLT	31.4
, E	4	к	SINGLE	0.850	WST LED 1 10A700_40K SR4 MVOLT	24
	8	XF02	SINGLE	0.700	UAM-70-N-UNV-BLACK-4C-CD-5BK-AML	85
	6	XF03	SINGLE	0.700	UAM-150-N-UNV-BLACK-4C-CD-5BK-AML	80

Calculation Summary							
Label,	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
CANOPY AREA	Illuminance	Fc	5.63	11.1	1.2	4.69	9.25
NON-PARKING LOT	Illuminance	Fc	0.50	11.1	0.0	N.A.	N.A.
PARKING LOT	Illuminance	Fc	1.81	8.0	0.5	3.62	16.00



LICENSE #: PE-2013026290 EXPIRES 12.31.2017 **JOB NO: 1594**

PA:FCW DATE: 02-11-16

REVISIONS \triangle

REVISED PER CITY COMMENTS 04-06-16 W-T MECHANICAL/ELECTRICAL ARB RESUBMITTAL

SHEET NUMBER

E1.1

ENGINEERING, LLC. MECHANICAL AND ELECTRICAL ENGINEERS Hoffman Estates, Illinois 60192 PH: (224) 293-6333 FAX: (224) 293-6444

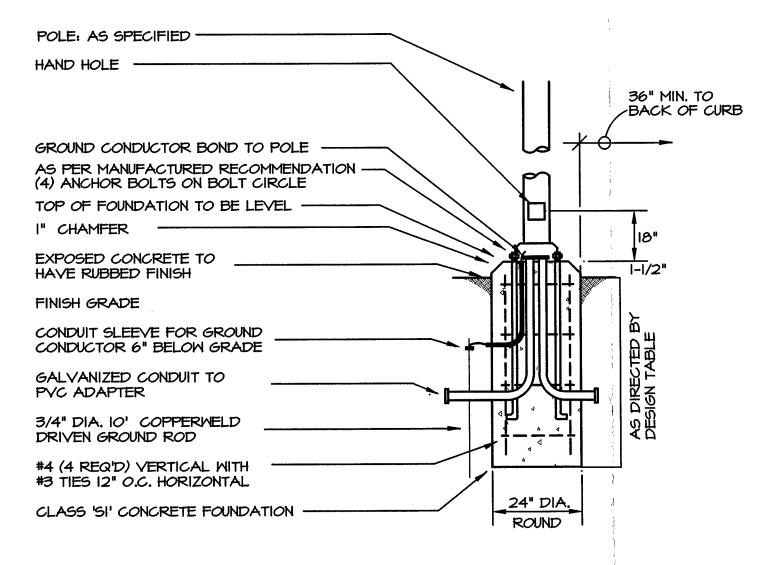
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SITE PHOTOMETRIC PLAN

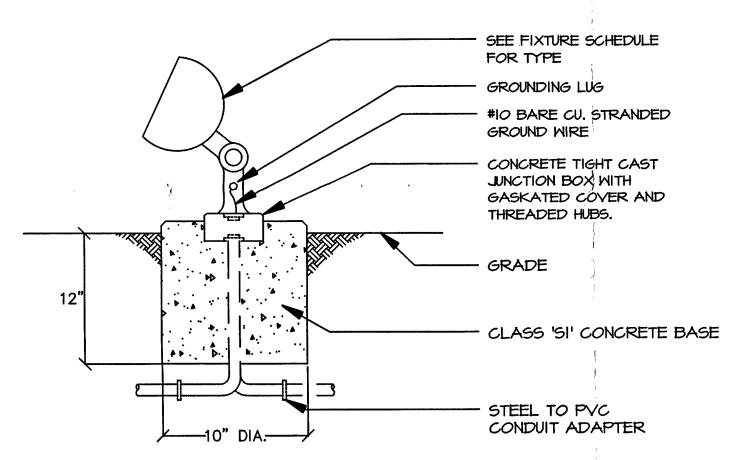
PROJECT

SCALE: 1"=40'-0"



TYPICAL POLE BASE DETAIL NOT TO SCALE

TYPE OF S	DESIGN DEPTH OF FOUNDATION (IN FEET)			
DESCRIPTIONS	STANDARDS	20' POLE		
I. SOFT CLAY	QU0.25-0.5 TSF	14.0		
2. MED. STIFF CLAY	QU0.5-1.0 TSF	9.5		
3. STIFF CLAY	QU1.0-2.0 TSF	7.5		



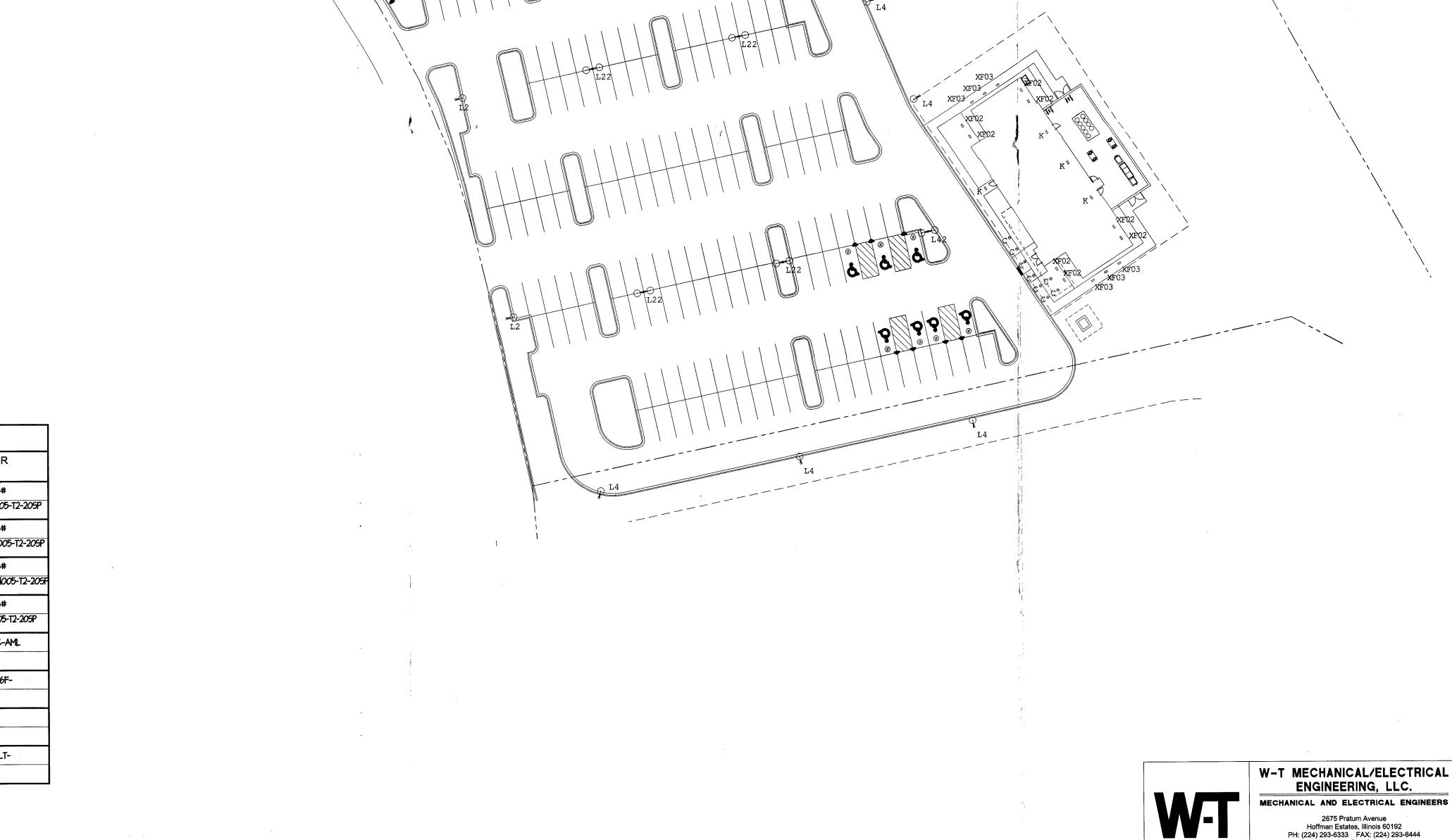
DETAIL - GROUND MOUNTED FLOOD LIGHT

SITE	LIGI	HTING FIX	XTURE SCHED	ULE	
DESCRIPTION & FEATURES	LAMPS		MOUNTING	VOLT	SPECIFIED MANUFACTURER
DESCRIPTION & FEATURES	QTY.	TYPE	CLG./POLE-TYPE	VOLI	AND CATALOG NUMBER
LED POLE LIGHT (BLACK FINISH)		80W LED	20'-0" POLE	208	US ARCHITECTURAL LIGHTING#
(SINGLE HEAD)			:		RSB25-II-80YLED-NM-525mA-2TT-I-RAL-9005-T2-20SP on a #RNTS-205-II-I-RAL-9005-S
LED POLE LIGHT (BLACK FINISH)	1	80W LED	20'-0" POLE	208	US ARCHITECTURAL LIGHTING#
(2 HEADS @ 180°)					RSB25-IV-80VLED-NW-525mA-2TT-I-RAL-9005-T2-205P on a #RNT9-205-II-I-RAL-9005-S
LED POLE LIGHT (BLACK FINISH)	2	80W LED	20'-0" POLE	208	US ARCHITECTURAL LIGHTING#
(2 HEADS @ 180°)					2/RSB25-II-80VLED-NN-525mA-2TT-I-RAL-4005-T2-20SF on a #RNTS-205-II-I-2-180-RAL-4005-S
LED POLE LIGHT (BLACK FINISH)	2	80W LED	20'-0" POLE	208	US ARCHITECTURAL LIGHTING#
(2 HEADS @ 180°)					2/RSB25-IV-80VLED-NN-525mA-2TT-I-RAL-4005-T2-20SP on a #RNTS-205-II-I-2-180-RAL-4005-S
HID FLOOD LIGHT (BLACK FINISH)	ı	70W MH	GROUND	208	EYE LIGHTING #UAM-70-N-UNV-BLACK-4C-AML
HID FLOOD LIGHT (BLACK FINISH)	l	150W MH	GROUND	208	EYE LIGHTING #UAS-150-MM-UNV-BLACK-6F-
W/ BLUE LENS			1		AML-UAS-CL-BLUE
6" CFL DOWNLIGHT	ı	32TRT	RECESSED/CEILING	208	GOTHAM #AFLP-1/32TRT-6AR-MVOLT
			CANOPY - 10' AFF		
LED WALL PACK	I	23W LED	SURFACE/WALL	208	LITHONIA #MST-I-IOATOO/40K-SR4-MVOLT-
(TEXTURED NATURAL ALUMIMUM FINISH)			9'-0" AFF		ELCH-DNATXD
	DESCRIPTION & FEATURES LED POLE LIGHT (BLACK FINISH) (SINGLE HEAD) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) HID FLOOD LIGHT (BLACK FINISH) W BLUE LENS 6" CFL DOWNLIGHT LED WALL PACK	DESCRIPTION & FEATURES QTY. LED POLE LIGHT (BLACK FINISH) (SINGLE HEAD) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS @ 180°) HID FLOOD LIGHT (BLACK FINISH) HID FLOOD LIGHT (BLACK FINISH) W BLUE LENS 6" CFL DOWNLIGHT LED WALL PACK I	DESCRIPTION & FEATURES QTY. TYPE LED POLE LIGHT (BLACK FINISH) (SINGLE HEAD) LED POLE LIGHT (BLACK FINISH) (2 HEADS • 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS • 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS • 180°) LED POLE LIGHT (BLACK FINISH) (2 HEADS • 180°) HID FLOOD LIGHT (BLACK FINISH) HID FLOOD LIGHT (BLACK FINISH) HID FLOOD LIGHT (BLACK FINISH) W BLUE LENS 6" CFL DOWNLIGHT LED WALL PACK I 23W LED	DESCRIPTION & FEATURES QTY. TYPE CLG./POLE-TYPE LED POLE LIGHT (BLACK FINISH) I 80M LED 20'-0" POLE (SINGLE HEAD) LED POLE LIGHT (BLACK FINISH) I 80M LED 20'-0" POLE (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) 2 80M LED 20'-0" POLE (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) 2 80M LED 20'-0" POLE (2 HEADS @ 180°) LED POLE LIGHT (BLACK FINISH) 1 70M MH GROUND HID FLOOD LIGHT (BLACK FINISH) I 150M MH GROUND W BLUE LENS 6" CFL DOWNLIGHT I 32TRT RECESSED/CEILING CANOPY - IO' AFF LED WALL PACK I 23M LED SURFACE/WALL	DESCRIPTION & FEATURES

SITE ELECTRICAL PLAN

SCALE: 1"=40'-0"

PROJECT NORTH



JOB NO: 1594

DATE: 02-11-16

REVISIONS \triangle

SHEET NUMBER

SE1.1

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