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Planning Commission Staff Report

Project Type: Site Development Section Plan

Meeting Date: May 8, 2017

From: Jessica Henry, AICP
Senior Planner

Location: North side of North Outer 40 Road and east of Boone’s Crossing

Applicant: Topgolf USA Chesterfield/ Stock and Associates Consulting Engineers, Inc.

Description: **Summit—Topgolf Development, Lot B (Topgolf):** A Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect’s Statement of Design for a 14.75 acre tract of land zoned “PC” Planned Commercial District located north of North Outer 40 Road and east of Boone’s Crossing.

PROPOSAL SUMMARY

Stock and Associates Consulting Engineers, Inc., on behalf of Topgolf USA, has submitted a request for a 66,300 square foot entertainment complex which includes a golf driving-range, restaurant, bar, meeting space, and game area located on the north side of North Outer 40 Road and east of Boone’s Crossing. The subject site is zoned “PC” Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2932. The exterior building materials will be primarily comprised of stacked stone, honed concrete masonry, composite panel, and EIFS. Rooftop mechanical equipment will be screened by the front and side parapet walls.

HISTORY OF SUBJECT SITE

The site is partially occupied by the Hardee’s Iceplex and partially vacant. In January of 2017, the City Council approved Ordinance 2932 which consolidated two planned commercial districts into one new planned commercial district. The applicant has submitted a Record Plat to create a new three lot commercial subdivision to allow for the development of the Topgolf project along with two other future developable lots.

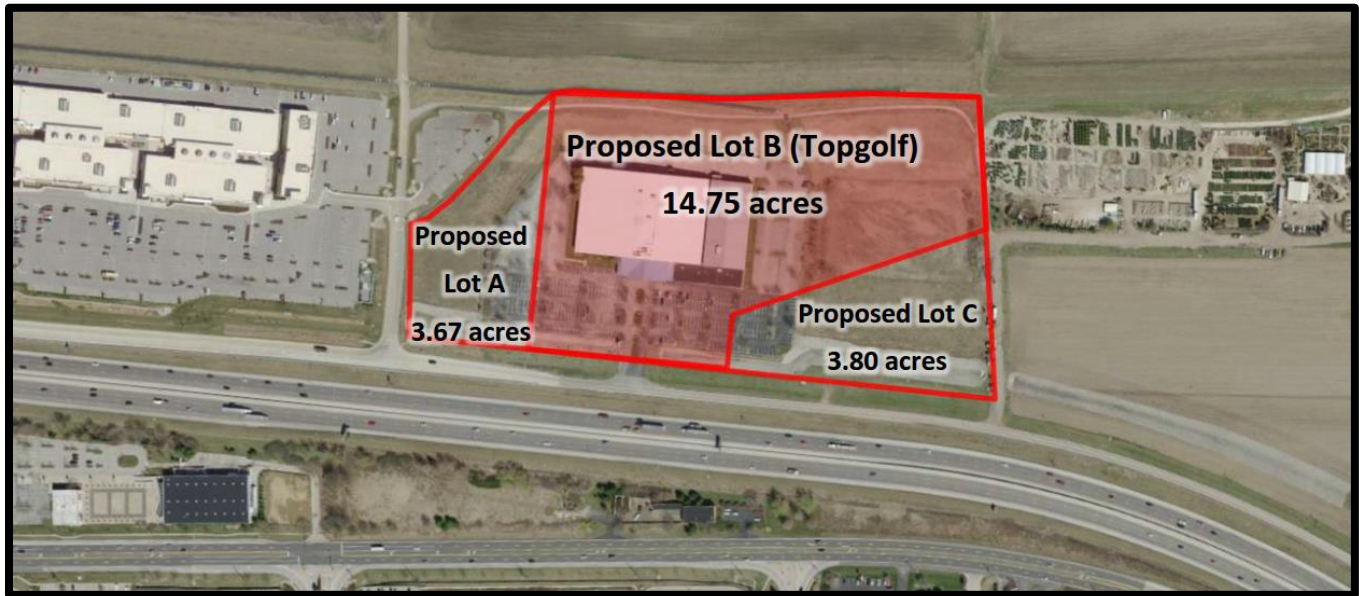


Figure 1: Proposed Summit Development/Topgolf Subdivision (lots not drawn to scale/approximated)

LAND USE AND ZONING OF SURROUNDING PROPERTIES

The land use and zoning for the properties surrounding this parcel are described below:

North:	The Monarch-Chesterfield Levee is located directly north of the subject site with “FPNU” Floodplain Non-Urban District zoned property north of the levee. This property is currently being used for the stockpiling of dirt.
South:	The subject site is bordered by North Outer 40 Road and Interstate 64 to the south. Land south of these roadways is zoned “PC” Planned Commercial District and “M-3” Planned Industrial District.
East:	The property to the east is a combination of “AG” Agricultural District and “NU” Non-Urban District zoned property currently being used for agricultural operations including a plant nursery under an active Conditional Use Permit.
West:	The property directly to the west is Taubman Prestige Outlets and is currently zoned “PC” Planned Commercial District.

COMPREHENSIVE PLAN ANALYSIS

The subject site is located within Ward 4 of the City of Chesterfield and is within the Mixed Commercial Use land use designation per the City’s Land Use Plan as seen in Figure 2 on the next page. The Comprehensive Plan defines Mixed Commercial Use as an area where “Appropriate uses in this designation would be retail and office”.

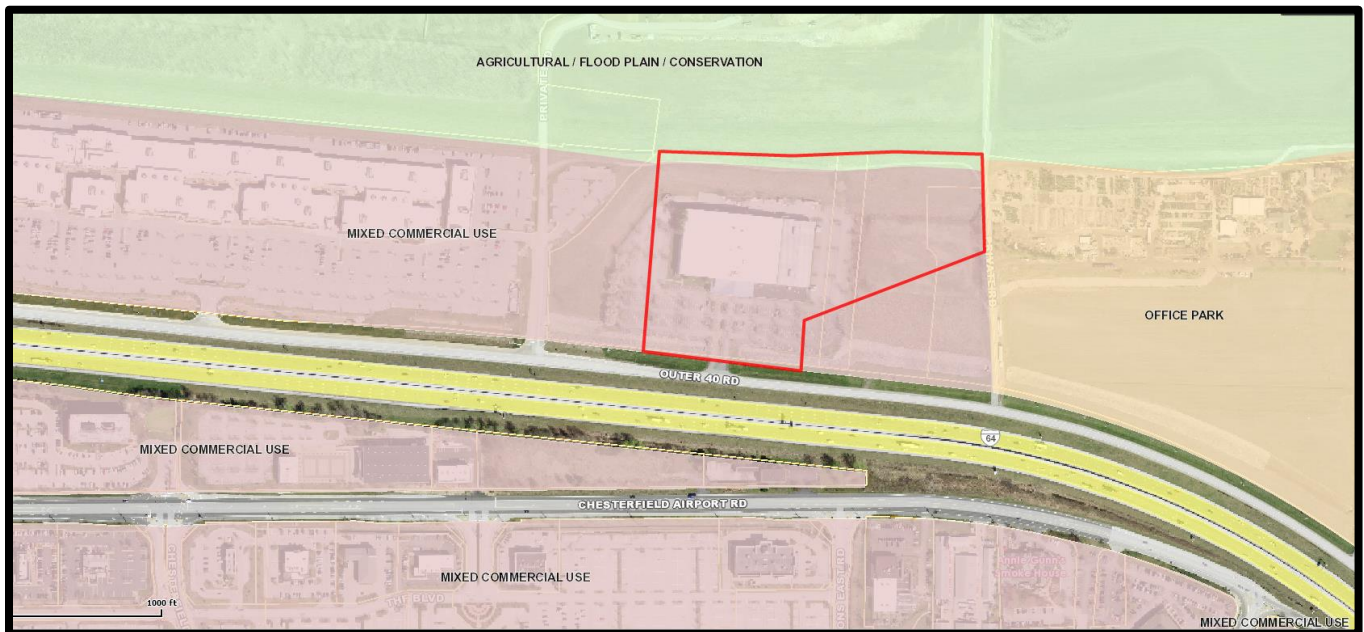


Figure 2: Future Land Use Plan

The Comprehensive Plan includes Commercial Development Policies as well as specific policies which are applicable to developments within the Chesterfield valley sub-area.

Commercial Development Policies

- **3.1.1 Quality of Design**—Overall design standards should be provided for smaller-scale, mixed-use, project-oriented developments. Developments should emphasize architectural design, pedestrian circulation, landscaping, open space, innovative parking solutions and landscape buffering between any adjacent residential uses.
- **3.1 Quality Commercial Development**—The intent of this policy is to ensure developments positively reflect the image of the City of Chesterfield, provide employment opportunities and offer retail and service options to residents.
- **7.2.6 Cross-Access Circulation**—Cross-access is encouraged for both vehicular and pedestrian connections in all new developments.

Chesterfield Valley Sub-Area and Chesterfield Valley Design Policies

- **3.5.1 Chesterfield Valley Region Retail and Low Intensity Industry**—Regional retail and low-intensity industrial developments should be located in Chesterfield Valley. These include mixed-use office/retail planned developments.
- **Façades of Buildings Along I-64/US 40**—Care should be taken to make sure that any portion of a building that can be viewed from I-64/US 40 or any arterial and collector roadways should convey the image of a high-quality office or commercial development and should be equally uniform in

materials and attractiveness as the primary façade of the building if it does not face I-64/US 40 or the roadways. The intent is to avoid projects having their view from I-64/US 40 or the roadways appear to be the rear or side of a development.

- **Lighting of Buildings Along I-64/US 40**—The façades of buildings facing I-64/US 40 should be lighted to provide an attractive image at night for individuals traveling along I-64/US 40. Accent lighting, as opposed to flood lighting should be used.

STAFF ANALYSIS

Zoning

The subject site is zoned “PC” Planned Commercial District and is governed under the terms and conditions of City of Chesterfield Ordinance Number 2932. The submittal was reviewed against the requirements of City of Chesterfield Ordinance 2932 and all applicable requirements of the Unified Development Code and the proposed development adheres to the applicable requirements.

Circulation System and Access

The subject site will be served by one dedicated entrance from North Outer 40 Road which is in the same location as the existing Hardee’s Iceplex entrance. A cross access easement is provided to proposed Lot A of the development. This easement extends across proposed Lot A to a proposed access point from the Taubman Outlet mall drive off of North Outer 40 Road, providing the potential for a secondary means of access to proposed Lot B upon the future development of proposed Lot A.

The levee trail runs parallel to the northern boundary of the site and the current Hardee’s Iceplex property includes an easement with trail access, parking, and related improvements that are currently available to the public. As required by Ordinance 2932, the relocation of this access and provision of all necessary easements and other measures necessary to preserve the trail access rights are being provided by the applicant in conjunction with the Topgolf development on proposed Lot B.



Figure 3: Image of levee trail and existing access from Hardee’s Iceplex site

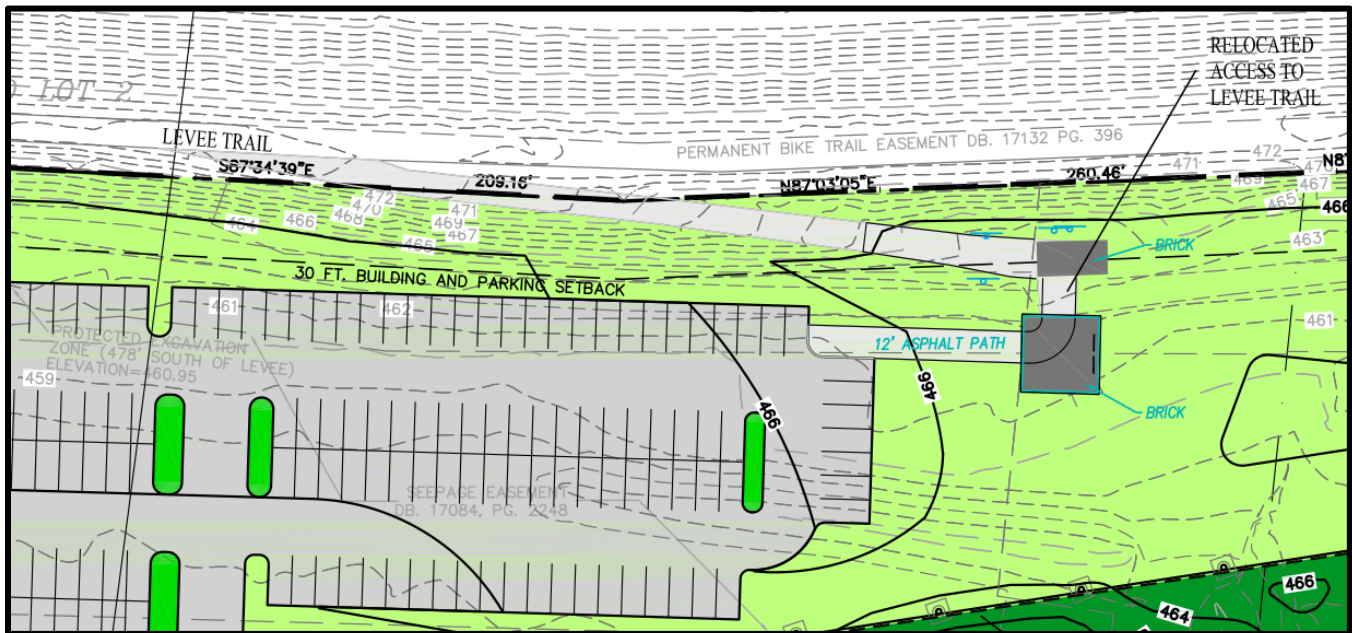


Figure 4: Proposed levee trail access relocation

Open Space

The minimum required open space for this development per Ordinance 2932 is 35%. The proposed Topgolf development on Lot B provides 68.4% open space. This calculation includes the large outfield area.

Landscape Design and Screening

Several different areas of landscaping are proposed in accordance with City Code requirements. These include street trees along the site's frontage, a 30 foot landscape buffer behind the stormwater conveyance channel, and parking lot landscaping. Additionally, the front entry features a series of stepped, raised landscape beds. Bio-retention and swale areas will be planted with native plantings to fulfill water quality requirements on the site.

Note that the rear portion of the site does not contain any plantings; this is due to the proximity of the levee and associated seepage berm.

Rooftop mechanical equipment is included on the building and the applicant has indicated that it will be screened by the parapet walls. Finally, an enclosure constructed of composite paneling will screen the trash receptacles from public view.

Lighting

Site lighting is proposed for the parking fields as required by City Code. Recessed canopy fixtures are proposed on the cantilevered entry canopy. These fixtures are utilitarian in nature and feature fully shielded, flat lens, enclosed luminaires.

The applicant is also proposing to utilize outfield lights that will be mounted on top of the building, as shown in Figure 5 below. These lights are permitted by City Code with certain restrictions. Specifically, the UDC states the following regarding field lighting fixtures of recreation facilities such as the proposed Topgolf:

- *All fixtures used for evening lighting shall be fully shielded. To the extent that it is not feasible to use fully shielded fixtures, then lighting shall be designed and provided with sharp cut-off capability so as to minimize any light nuisance, spill light, and glare.*

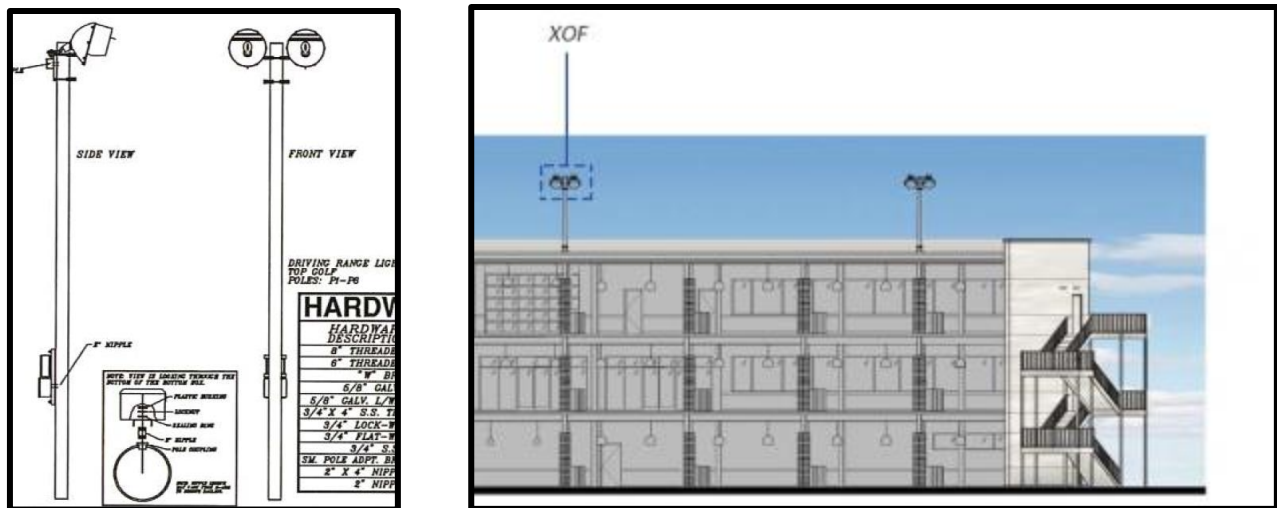


Figure 5: Proposed outfield light fixture "XOF"

In response to this requirement, the applicant has provided the following information:

"Topgolf strives to create a limited impact design for their outfield lighting system that allows for game play while still being a good neighbor. The lighting package for the XOF feature has evolved over time to reduce its impact.

- The fixture contains a louver so only a direct line of sight can see the sources of the light. This louver or shield prevents any sideways and offsite light spillage.
- The fixture has a frosted bulb to minimize glare from the fixture.
- Each head is angled downward towards the ground for the intent of lighting the back of the ball as it leaves the tee line. The intent is not to light up the entire outfield rather to allow for customers to see their ball initially after they hit it for the first 50 or so yards.
- The XOF fixture is also on a dimmable ballast that lowers the light's intensity as the night sky grows darker into the night.
- These poles are only located on the roof structure of the building and faced directly to the outfield. NO outfield lights are directed off property and maintain 0 horizontal foot-candles at the property boundary."

In addition to the utilitarian and outfield light fixtures discussed above, the applicant is proposing a substantial amount of accent lighting that requires specific approval from the Planning Commission as these are not fully shielded, flat lens fixtures. This includes LED light bands outlining the logo, LED lighting cast onto the metal architectural screens located on the front façade of the building, and accent lighting along the entry staircase, under the parapet cornices, and along the vertical plane of the stacked stone center portion of the building. The reference photo below shows these various accent lighting applications.

While the Unified Development Code does require that all lighting be fully shielded, cut off optics, there is a provision in the UDC which allows the Planning Commission to approve decorative lighting fixtures when it can be proven that there will be no off-site glare light trespass, and the proposed fixtures will improve the appearance of the site.

Further, the UDC requires that the exterior building lighting be architecturally integrated with the building style, material, and color, specifying that the color of exterior lamps should be consistent with that on surrounding buildings. The proposed accent lighting was discussed at length by the Architectural Review Board and further information is located in the following section of this report.

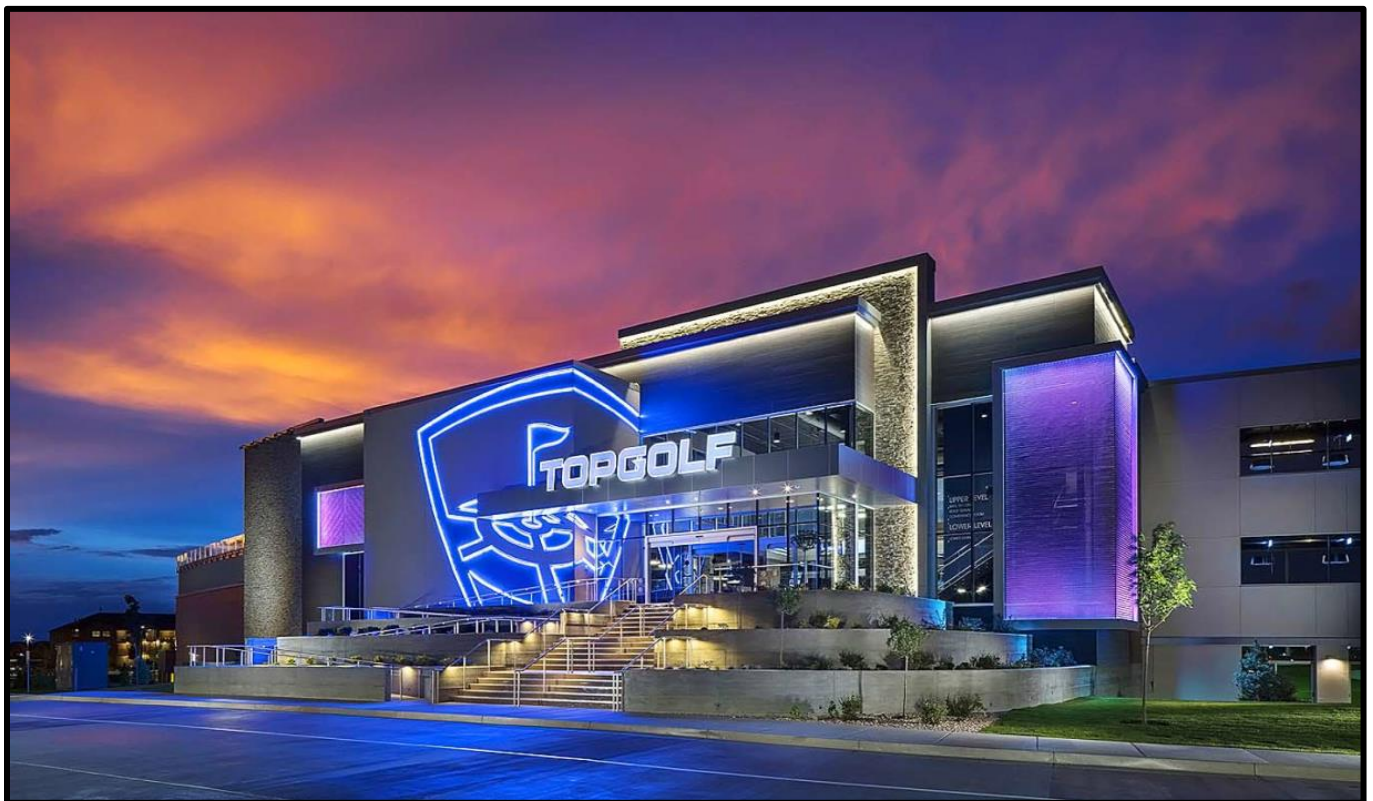


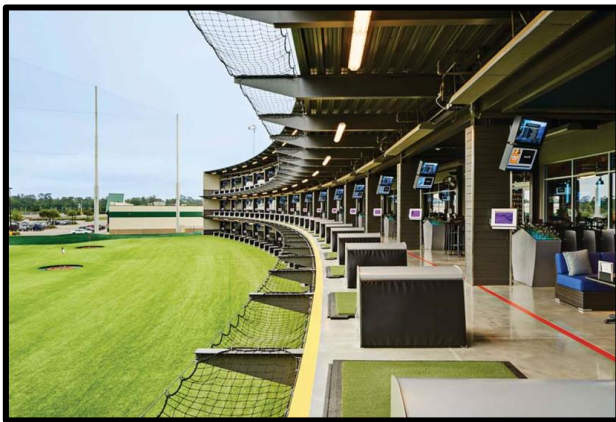
Figure 6: Reference photo showing proposed accent lighting applications

Architectural Elevations

The proposed building is three stories in height and the rear building elevations open into an expansive outfield with poles and netting reaching 170 feet in height, as permitted by Ordinance 2932. The building’s parapets vary in height, with the tallest point on the structure being the stadium flood lighting structures. Ordinance 2932 established the maximum height of the building inclusive of the lighting structures as being 60 feet and the architectural elevations show the light structures as being 57 feet in height. The proposed materials include natural stacked stone, honed concrete masonry, composite panels, and EIFS. Architectural metal mesh screens are proposed as an accent.



Figure 7: West elevation



The building includes a four-sided design with similar materials and treatments on each façade, with the exception of the east façade, which is open to the outfield as shown in the adjacent image. In this image, the outfield poles and netting are also visible in the distance.



The building features a roof top open air terrace, as depicted in the adjacent reference photo which was also included in the meeting packet. The applicant has noted that Topgolf maintains operating hours of 9:00 AM to 2:00 AM. Ordinance 2932 does not restrict the hours of operation for the recreation facility use.

The project was reviewed by the Architectural Review Board (ARB) on March 9th, 2017. 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. Information regarding the applicant’s response to each recommendation follows in italicized text.

1. The staircase on the south elevation should be architecturally integrated with the building design.

The applicant has modified the staircase on the south elevation to be partially enclosed, as shown in the following images.

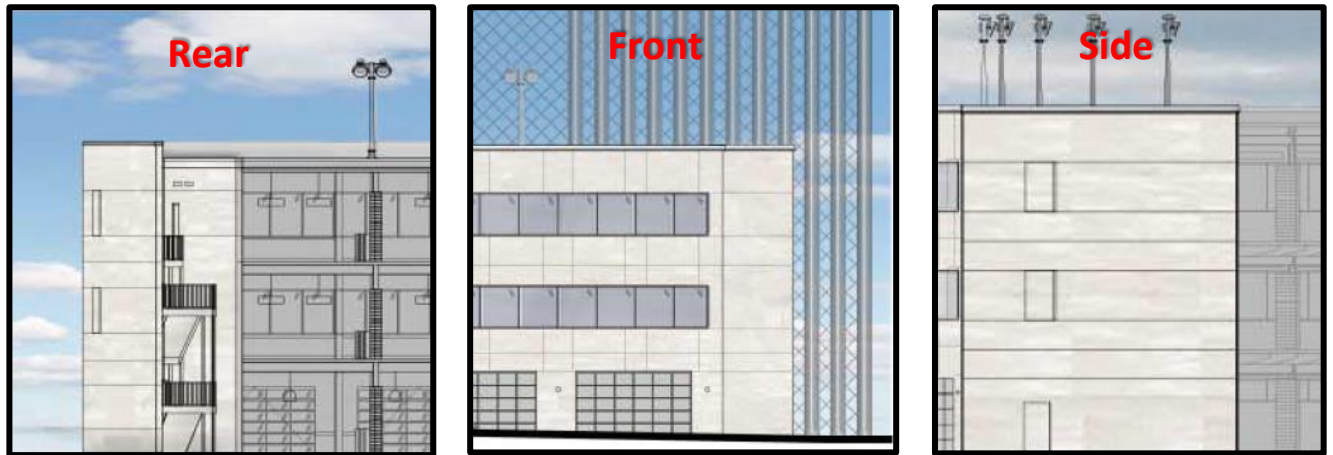


Figure 8: Partially enclosed staircase appearance from rear, front, and south side of building

2. Landscaping within the planter boxes should be shown on the Landscape Plan and consistent with the color rendering.

The applicant has revised the Landscape Plan to reflect this recommendation.

3. Landscaping should be added along the southeastern net elevation using species proposed in the planting schedule included on the Landscape Plan and comprised of a mix of evergreen and deciduous trees.

The applicant has revised the Landscape Plan to reflect this recommendation by including Green Giant Arborvitae, European Hornbeam, and Armstrong Maple trees along the net elevation.

4. The LED wall washer lighting that is cast on the wire mesh panels should be static in nature and limited to a single color.

In response to this item, the applicant stated that the LED wall washer light will be limited to one color and will be static in nature.

5. Remove the LED lighting from the logo architectural element on the west elevation, resulting in an unlit architectural element.

The applicant has offered the following statement in response to this item:

“LED lighting at the architectural element of the west elevation has been kept in for determination at the City Planning Commission meeting.”

When considering the recommendations of the Architectural Review Board, particularly in regards to the proposed accent lighting, it is important to note that the scope of the board’s purview is limited to *Article 04-01 Architectural Review Design Standards* of the Unified Development Code whereas the Planning Commission reviews proposals against the entirety of the Unified Development Code. *Article 04-03 Lighting Standards* specifically provides for “fixture design exemptions” which allow the Planning Commission to approve decorative light fixtures as an alternative to shielded fixtures if the proposed lighting application will improve the appearance of the site.

DEPARTMENT INPUT

Staff has reviewed the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect’s Statement of Design. Staff recommends approval of the request with Planning Commission review of the applicant’s responses to the Architectural Review Board recommendations.

MOTION

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

- 1) “I move to approve (or deny) the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect’s Statement of Design for Summit Development/Topgolf, Lot B (Topgolf).
- 2) “I move to approve the Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations, and Architect’s Statement of Design for Summit Development/Topgolf, Lot B (Topgolf) with the following conditions...” (Conditions may be added, eliminated, altered or modified)

cc: Justin Wyse, Director of Planning and Development Services

Attachments:

Architect’s Statement of Design
Architectural Elevations
Reference Photos
Lighting Cut Sheets
Site Development Section Plan
Landscape Plan
Lighting Plan



NARRATIVE STATEMENT

Background

Summit Ice Center Investors, LLC (“Summit Ice”) owns approximately 14.52 acres of the subject site, and Summit Outer 40 Investors, LLC (“Summit”) owns approximately 7.7 acres of the subject site (collectively the “Property”) for a total of approximately 22.22 acres. Summit Ice’s property and Summit’s property are subject to site specific City of Chesterfield zoning ordinances No. 2931. Applicant Topgolf is Owner Under Contract with respect to the proposed Lot B of 14.75 acres. Applicant desires to develop Lot B as reflected by the Site Development Section Plan.

Topgolf

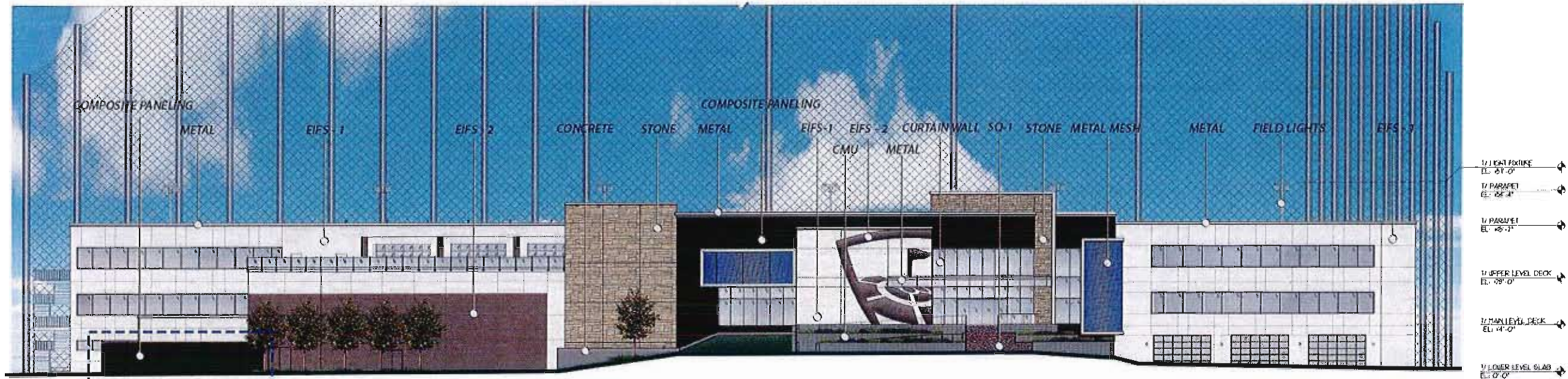
Topgolf is a premier golf entertainment complex consisting of an outdoor outfield enclosed by netting, full-service restaurant, bar, lounges, corporate/event meeting space and family entertainment area with games.

- Players play in individual hitting bays. Each hitting bay can accommodate up to six players at a time. Hitting bays include comfortable seating, television screens to monitor sporting events and track Topgolf scoring. Topgolf facilities are energetic and upscale with a high quality food and beverage offering delivered restaurant-style table-side to guests playing the game. Topgolf facilities feature a full sports bar atmosphere as well as an upscale, unique corporate entertainment experience.
- Topgolf features patented technology platform gaming system in which players use golf clubs to hit golf balls embedded with an RFID (radio frequency identification) microchip into a 240-yard outfield which features eleven targets at various distances. Microchips in the balls track each player’s shot in real time, giving points for accuracy or luck and making the driving range experience competitive and social. Different games are simulated, including a nine-hole golf course and other games designed to appeal to players of varying skill levels.
- The proposed Topgolf facility consists of a three-story building and outdoor outfield. The facility has been located on the site so that the tee line is facing east, away from the afternoon sun. The facility includes the following features:
 - *Lower Level.* The lower level features 34 hitting bays including bays designated for golf instruction and team practice. The lower level also features a family lounge area. This level is at grade on the tee line.
 - *Main Level.* The entrance to the building is on the main level. The main level features 34 hitting bays, a full-service bar/restaurant, a corporate and event meeting space, and lobby area.

- *Upper Level.* The upper level features 34 hitting bays and an open-air rooftop terrace. The rooftop terrace will be furnished with tables, couches and fire pits. Restaurant food service is available on the roof top terrace. The terrace can accommodate live music for events with a small stage. The rooftop terrace is enclosed by a four-foot parapet with a three-foot tall plexiglass barrier.
- *Outfield.* The outfield features eleven illuminated round targets located 20 to 240 yards away from the tee line. The targets are internally illuminated with colored LED lighting.

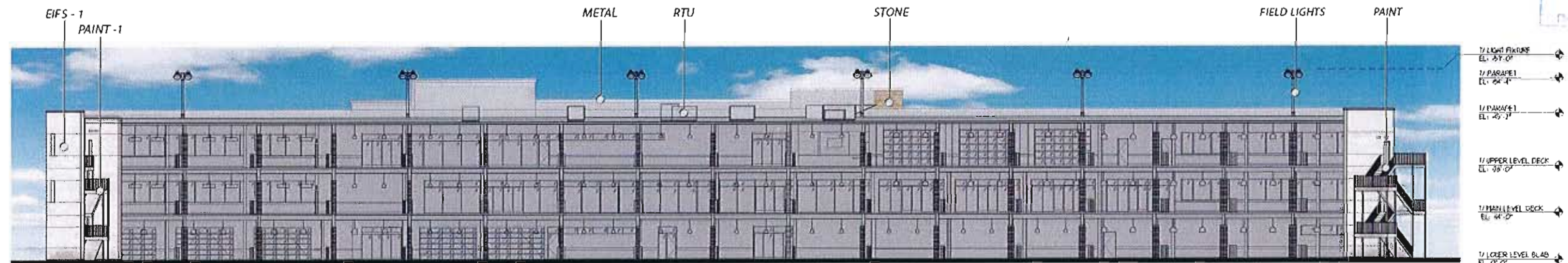
The outfield perimeter is completely enclosed by a transparent stainless steel mesh net. Net poles range from 90 feet in height near the building and crest to 170 feet at the end of the outfield. The poles are made of high-grade steel painted gray/blue to blend with the color of the sky. The poles on the corners of the outfield are secured by guy wires. Inside the nets, the surface of the outfield consists of synthetic grass surface. Outside the nets, the landscape consists of plant materials.

- Operating hours are 9 a.m. to 2 a.m. seven days a week.

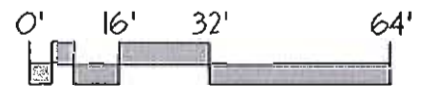


WEST ELEVATION

OPERABLE GATE TO SCREEN TRASH RECEPTACLE FROM PUBLIC VIEW. APPROX. 47'-0" W x 9'-6" H



EAST ELEVATION



EXTERIOR FINISHES



STONE



CONCRETE



EIFS - 1



EIFS - 2



COMPOSITE PANELING



COLOR CHANGING LED WASHING METAL MESH



CMU



CURTAIN WALL



PAINT

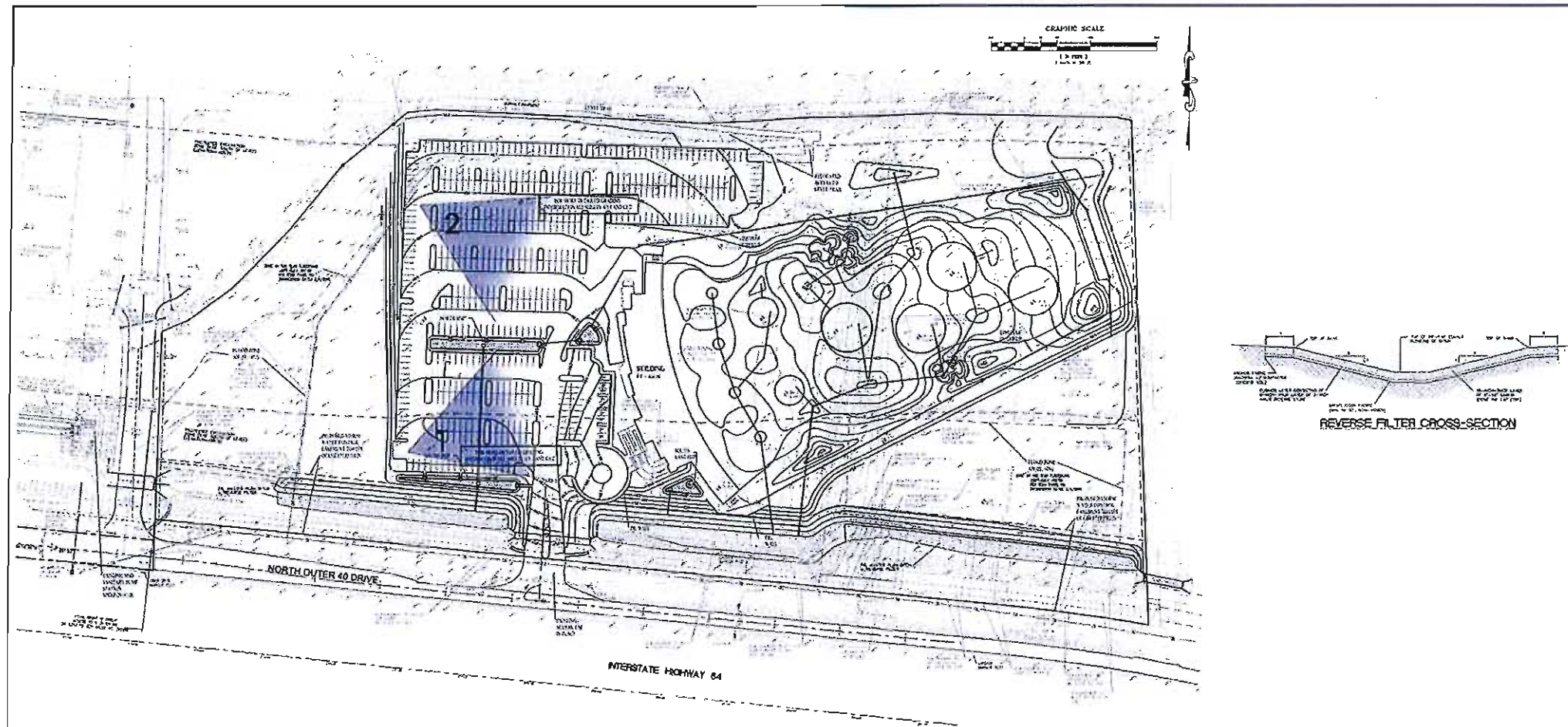


METAL TRIM SILVER FINISH



SQ-1 QUARTZ EPOXY





TOPOGRAPHIC MAP

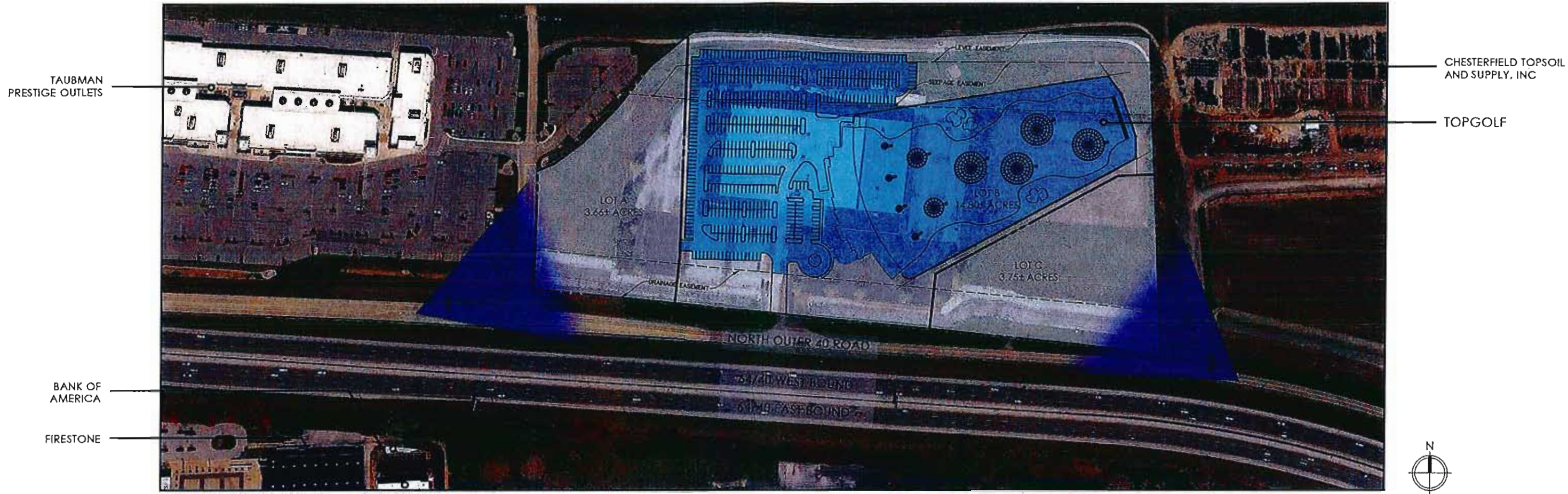


PERSPECTIVE VIEW 1



PERSPECTIVE VIEW 2





AERIAL VIEW: SITE + ADJACENT PROPERTIES



PERSPECTIVE VIEW 1: NORTH OUTER 40 ROAD LOOKING EAST



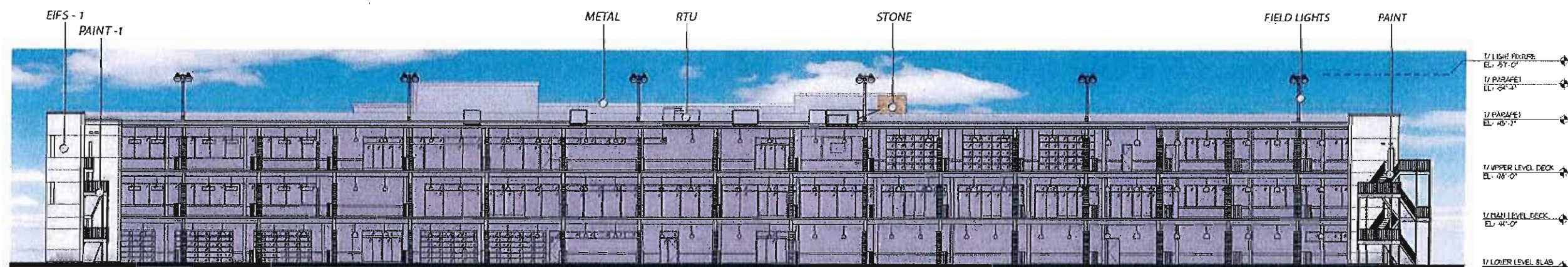
PERSPECTIVE VIEW 2: NORTH OUTER 40 ROAD LOOKING WEST



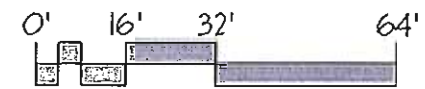


WEST ELEVATION

OPERABLE GATE TO SCREEN TRASH RECEPTACLE FROM PUBLIC VIEW. APPROX. 47'-0"W x 9'-6"H

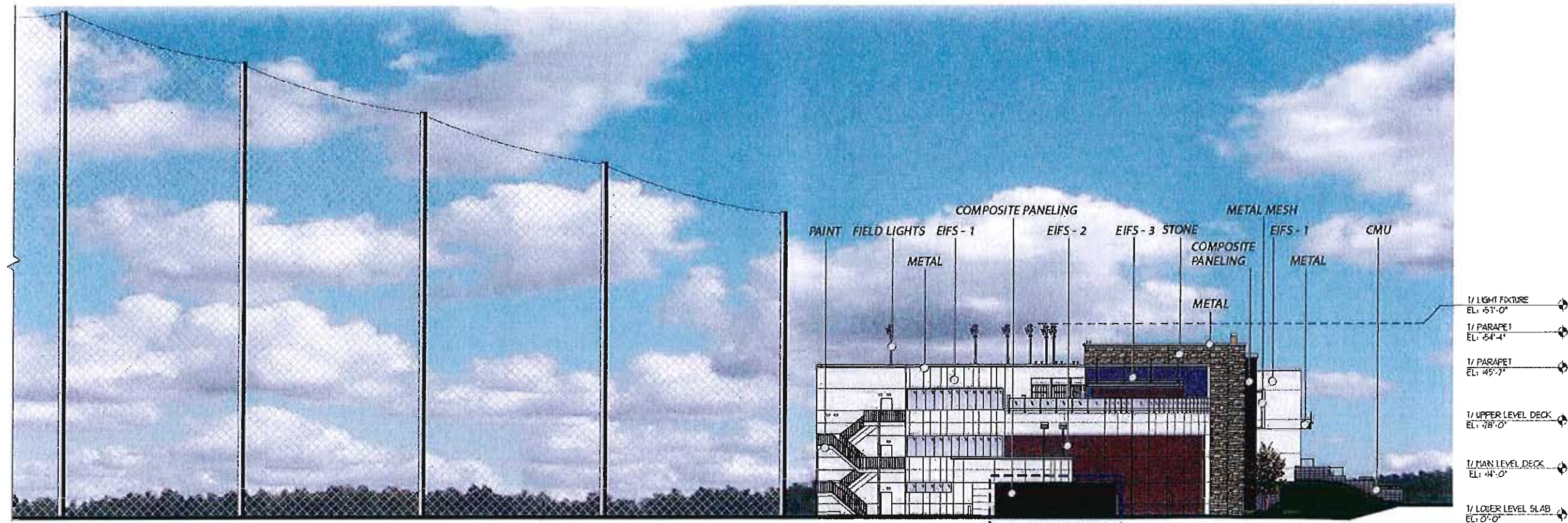


EAST ELEVATION



EXTERIOR FINISHES





NORTH ELEVATION

OPERABLE GATE TO SCREEN TRASH RECEPTACLE FROM PUBLIC VIEW. APPROX. 34'-6"W x 9'-6"H



EXTERIOR FINISHES



STONE



CONCRETE



EIFS - 1



EIFS - 2



EIFS - 3



COMPOSITE PANELING



COLOR CHANGING LED WASHING METAL MESH



CMU

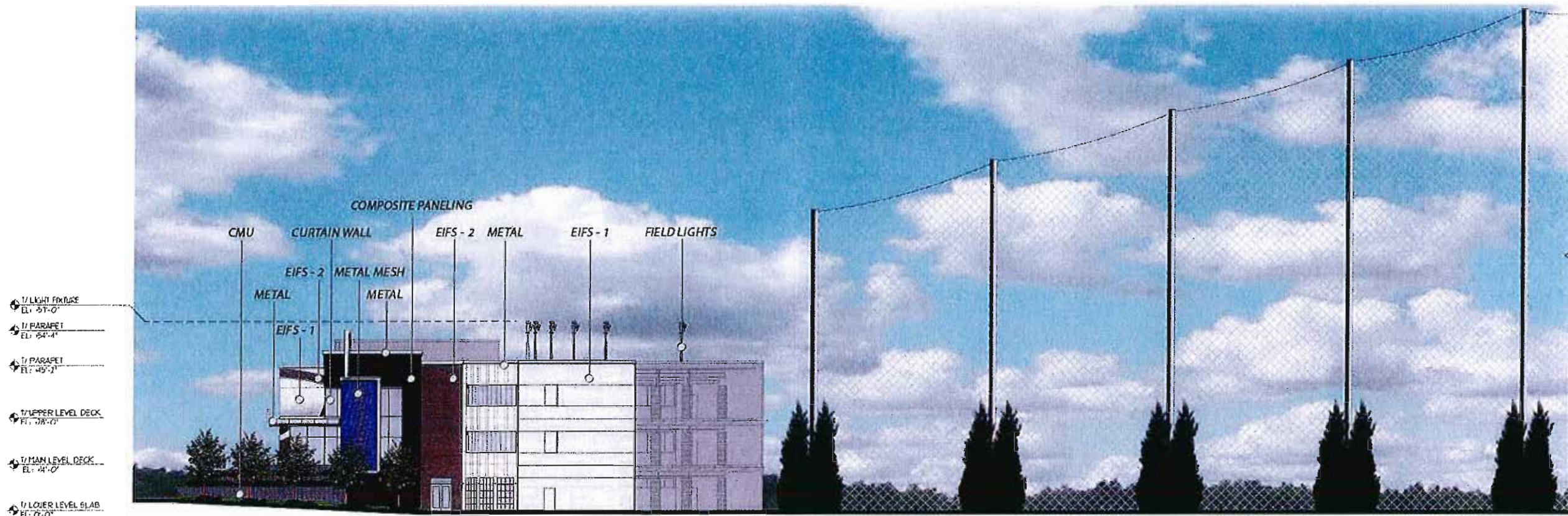


PAINT



METAL TRIM SILVER FINISH





SOUTH ELEVATION



EXTERIOR FINISHES



CONCRETE



EIFS - 1



EIFS - 2



COMPOSITE PANELING



CMU



COLOR CHANGING LED WASHING METAL MESH



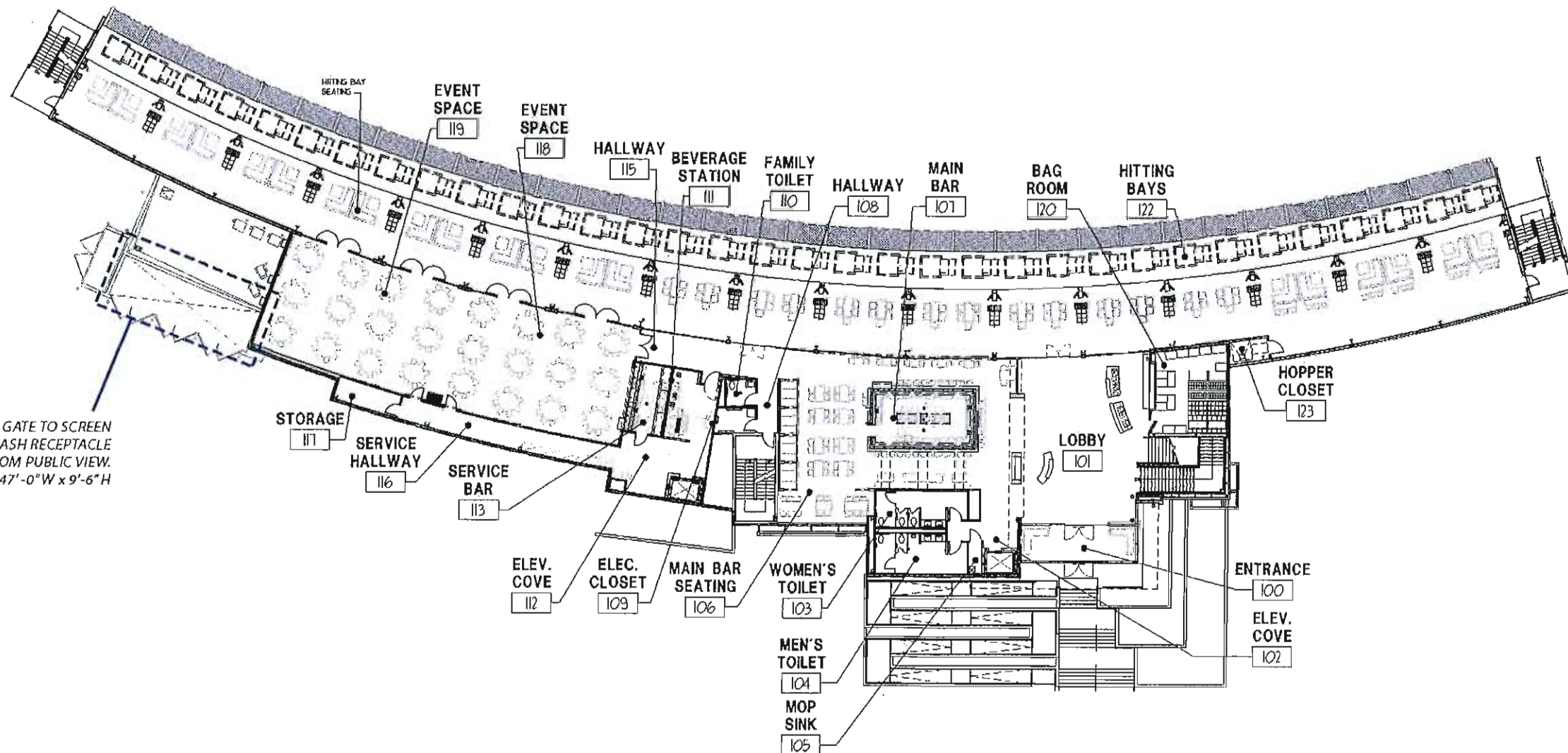
CURTAIN WALL



METAL TRIM SILVER FINISH

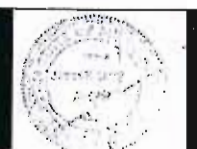


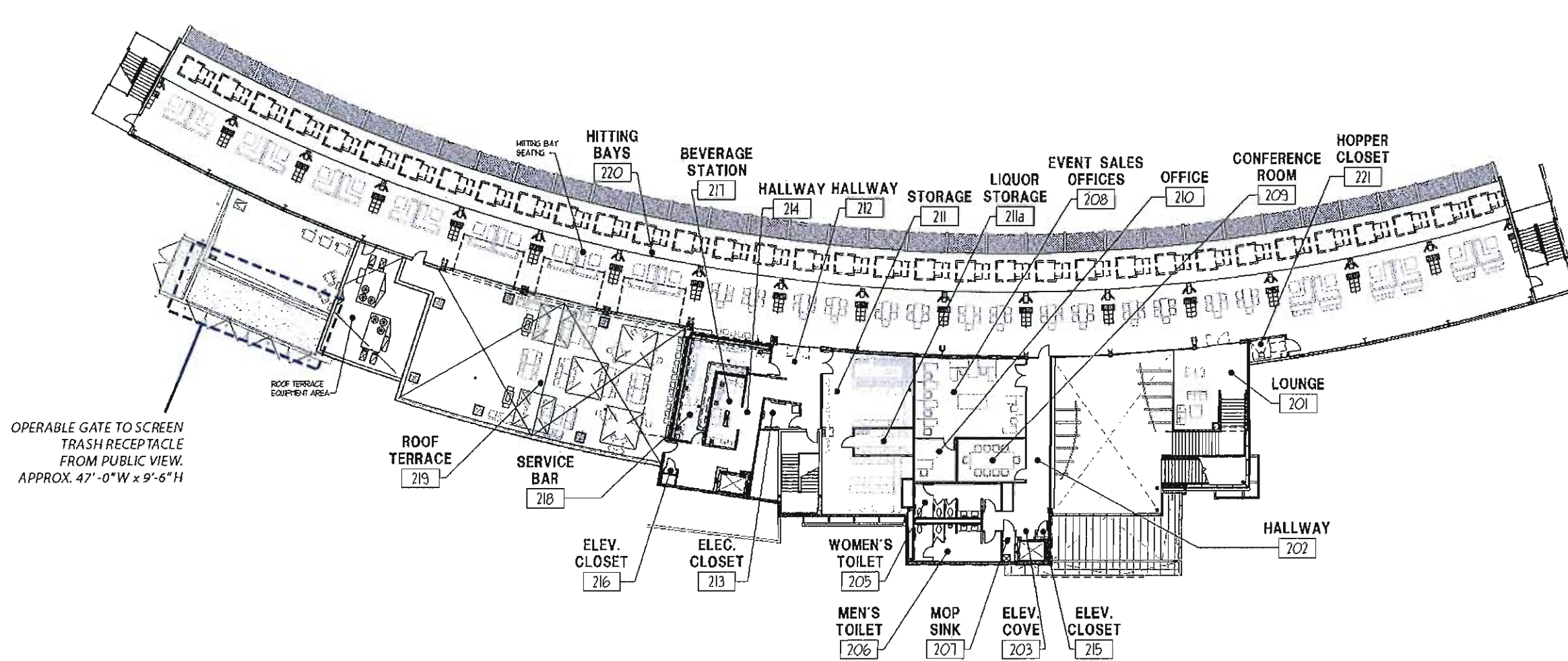




OPERABLE GATE TO SCREEN TRASH RECEPTACLE FROM PUBLIC VIEW. APPROX. 47'-0" W x 9'-6" H

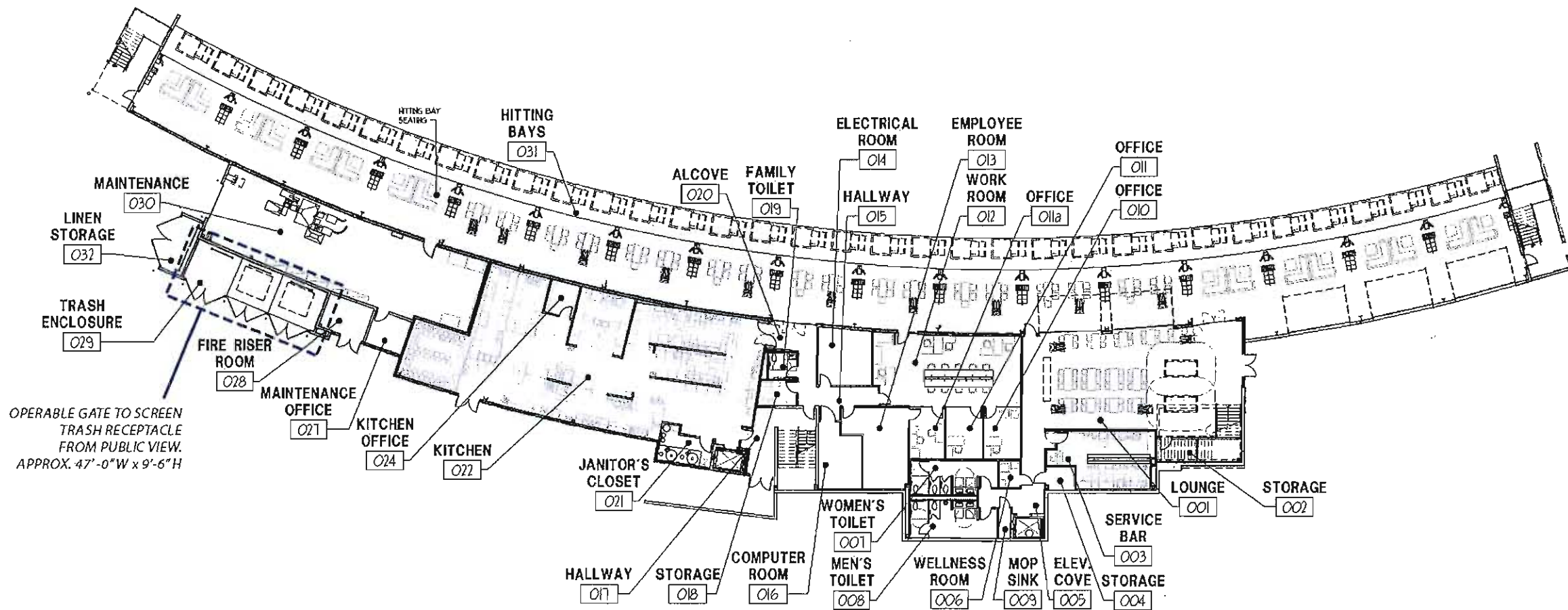
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100	ENTRANCE	230
101	LOBBY	1365
102	ELEV. COVE	108
103	WOMEN'S TOILET	207
104	MEN'S TOILET	230
105	MOP SINK	27
106	MAIN BAR SEATING	1482
107	MAIN BAR	602
108	HALLWAY	188
109	ELEC. CLOSET	64
110	FAMILY TOILET	53
111	BEVERAGE STATION	198
112	ELEV. COVE	204
113	SERVICE BAR	171
114	NOT USED	
115	HALLWAY	202
116	SERVICE HALLWAY	337
117	STORAGE	97
118	EVENT SPACE	1442
119	EVENT SPACE	1455
120	BAG ROOM (100 BAGS)	418
121	NOT USED	
122	HITTING BAYS	3931
123	HOPPER CLOSET	57
	HITTING BAY SEATING AREA	6889
MAIN LEVEL NET USEABLE FLOOR AREA		19957





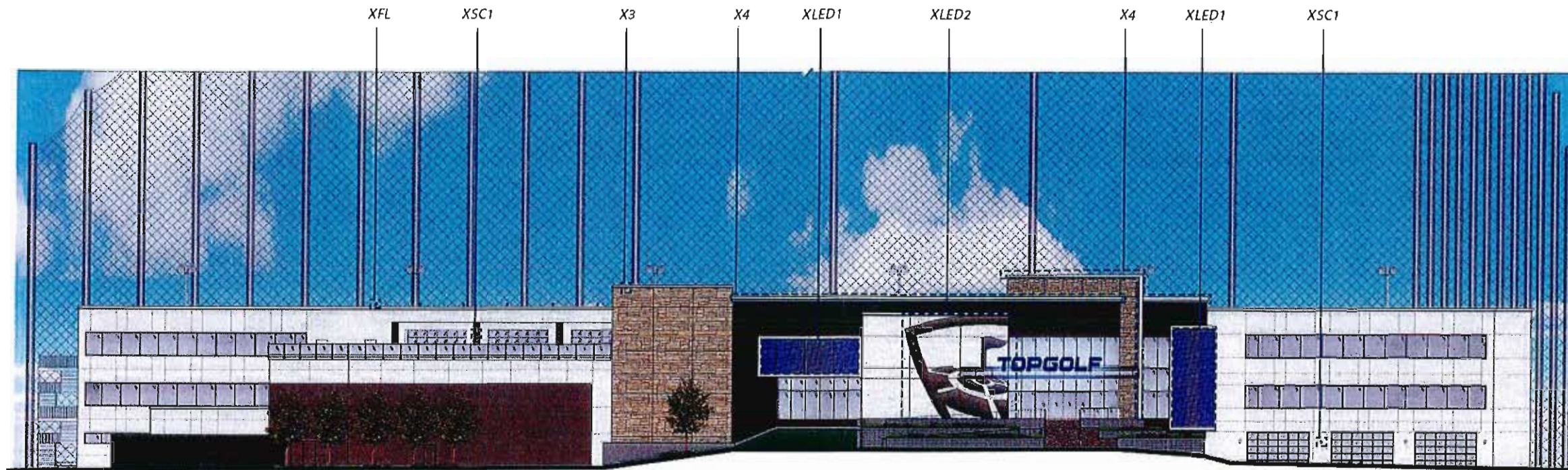
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201	LOUNGE	240
202	HALLWAY	292
203	ELEV. COVE	101
204	NOT USED	
205	WOMEN'S TOILET	207
206	MEN'S TOILET	230
207	MOP SINK	27
208	EVENT SALES OFFICES	659
209	CONFERENCE ROOM	215
210	OFFICE	130
211	STORAGE	927
211a	LIQUOR STORAGE	113
212	HALLWAY	249
213	ELEC. CLOSET	74
214	HALLWAY	246
215	ELEV. CLOSET	5
216	ELEV. CLOSET	4
217	BEVERAGE STATION	152
218	SERVICE BAR	342
219	ROOF TERRACE	2687
220	HITTING BAYS	5596
221	HOPPER CLOSET	57
	HITTING BAY SEATING	6773
UPPER LEVEL NET USEABLE FLOOR AREA		19327



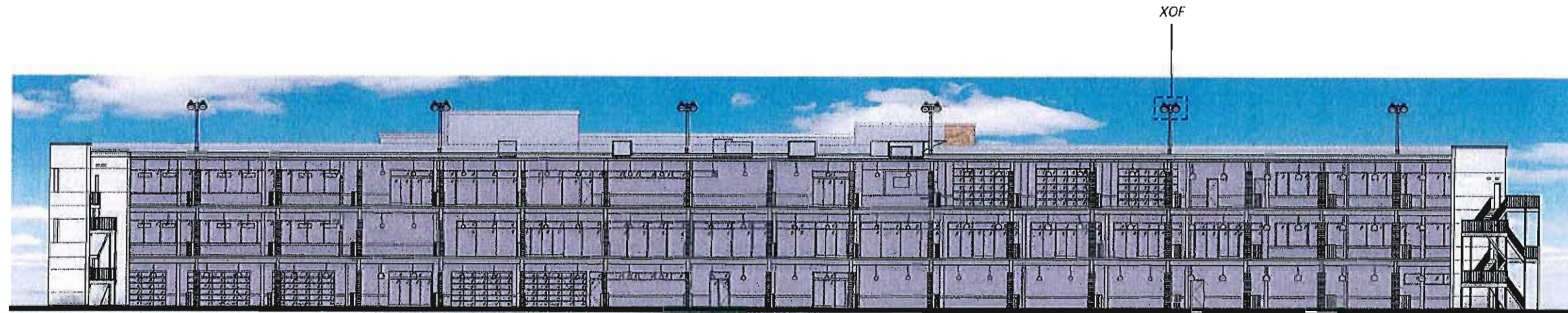


RM #	ROOM NAME	SQUARE FOOTAGE
001	LOUNGE	1655
002	STORAGE	67
003	SERVICE BAR	392
004	STORAGE	48
005	ELEV. COVE	58
006	WELLNESS ROOM	41
007	WOMEN'S TOILET	208
008	MEN'S TOILET	227
009	MOP SINK	27
010	OFFICE	139
011	OFFICE	139
011a	OFFICE	132
012	WORK ROOM	772
013	EMPLOYEE ROOM	319
014	ELECTRICAL ROOM	196
015	HALLWAY	282
016	COMPUTER ROOM	225
017	HALLWAY	189
018	STORAGE	71
019	FAMILY TOILET	55
020	ALCOVE	94
021	JANITOR'S CLOSET	121
022	KITCHEN	2410
023	NOT USED	
024	KITCHEN OFFICE	72
025	NOT USED	
026	NOT USED	
027	MAINTENANCE OFFICE	89
028	FIRE RISER ROOM	122
029	TRASH ENCLOSURE	NOT INCLUDED - 433
030	MAINTENANCE	1263
031	HITTING BAYS	4847
032	LINEN STORAGE	100
	HITTING BAY SEATING	6855
LOWER LEVEL NET USEABLE FLOOR AREA		11215



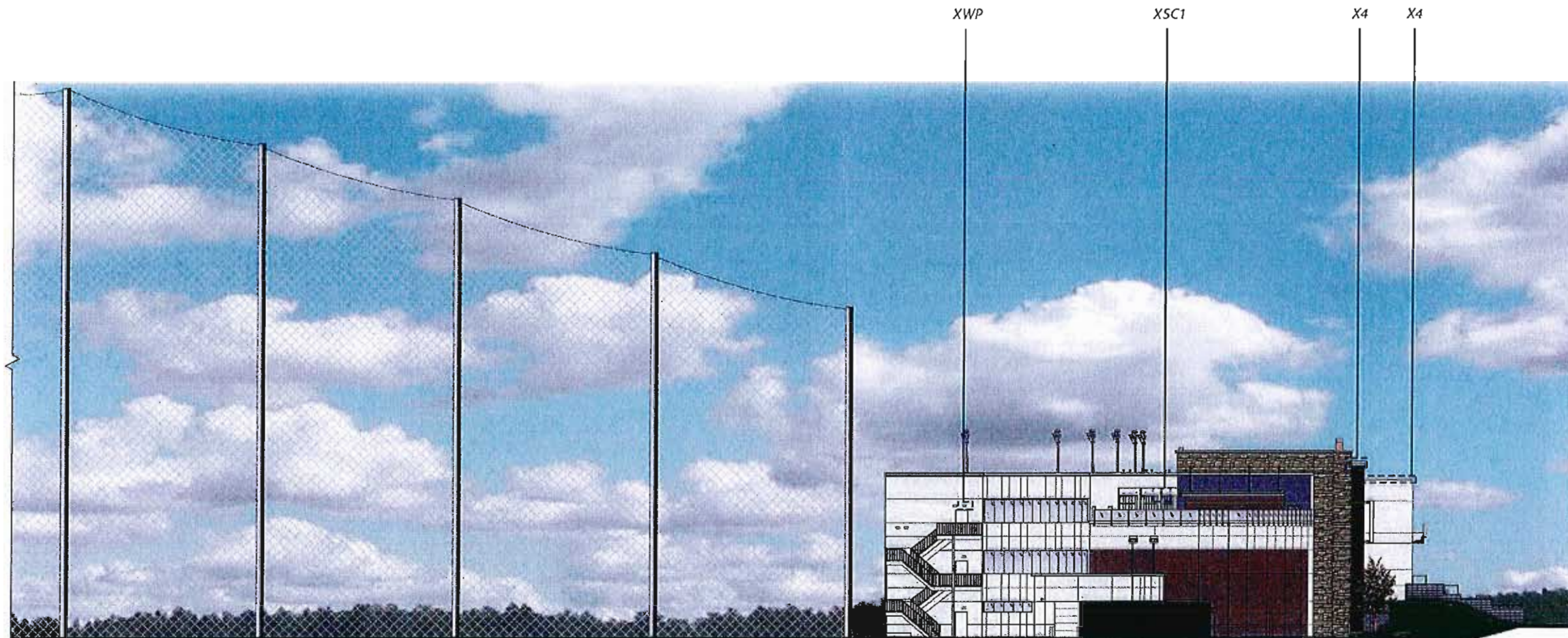


WEST ELEVATION



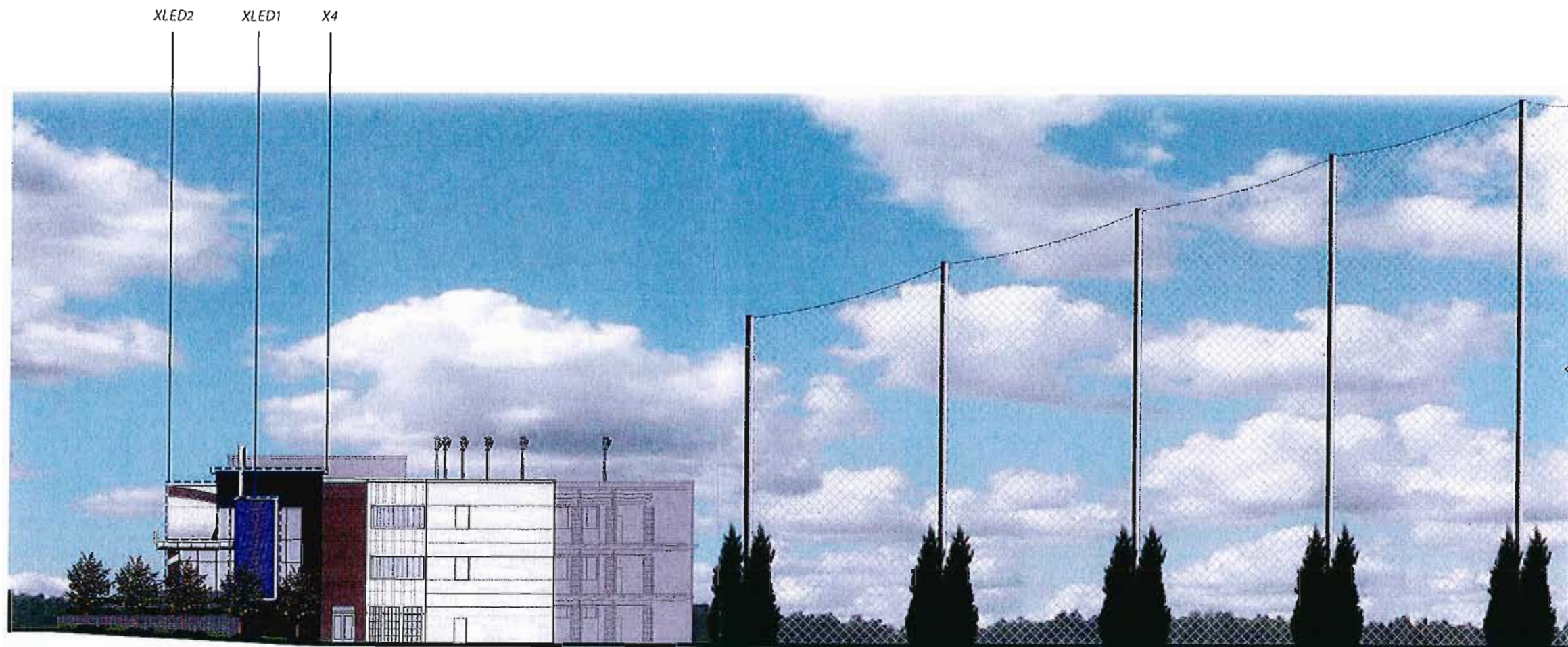
EAST ELEVATION





NORTH ELEVATION





SOUTH ELEVATION



PROJECT DATA

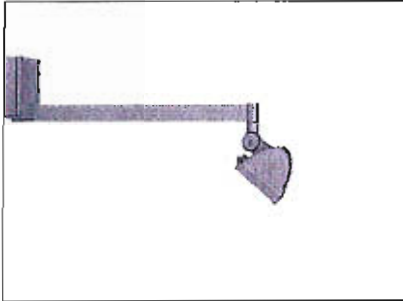
PROJECT
DATE
REFERENCE
TYPE
COMMENTS
NOTE

LOCAL WE-EF REPRESENTATIVE

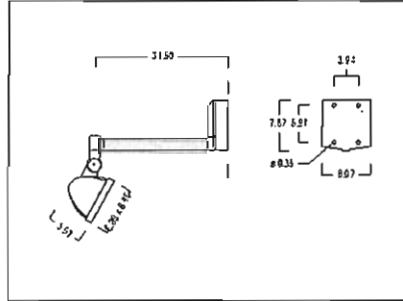
COMPANY
TELEPHONE
FAX
EMAIL



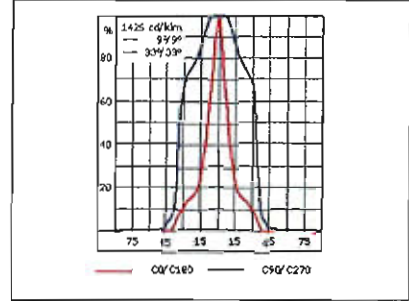
PRODUCT IMAGE



DIMENSIONS



LIGHT DISTRIBUTION



PRODUCT DESCRIPTION

DESCRIPTION 675-4152 Floodlights / Bi-symmetrical
 BEAM TYPE bi-symmetrical, narrow beam
 LAMP TYPE CMH150 T-6/ G-12 base
 LUMENS 14000
 CONTROL GEAR electronic gear

MAIN FEATURES

IP66. Bracket mounted floodlight. Integral control gear in thermally separated compartment. Special effects can be realized with linear lens, flood lens, or color filters.

TECHNICAL DATA

MATERIALS:

Marine grade die cast aluminum alloy. 5CE superior corrosion protection, including PCS hardware. Silicone rubber gasket. Clear, tempered glass lens. Anodized aluminum reflector.

ELECTRICAL:

Lamp holder: G-12 bi-pin base lamp holder, supplied with 250 ° high temperature leads, rated 600V. CMH150/ T-6/ G-12 base lamp, luminous flux: 14000 lm., provided by others. Integral (ECG) electronic MH ballast (ANSI M142/M102/E) for 120, 277, or 347 V supply. Specify voltage. Input watts: 169.0 W
 Ambient Temperature: Ta < 25 ° C

MOUNTING:

Suitable for installation over a 4" recessed junction box. Weight: 17.0 lbs.

FINISH:

Powder coat finish in Black RAL9004, White RAL9016, and Grey Metallic RAL9007. Specify finish. Consult WE-EF color chart for other color options.

LISTINGS:

UL , c UL listed. Suitable for Wet locations.
 International Protection Classification: IP66.

OPTICAL ACCESSORIES

Internal optical accessories:

A maximum of two internal optical accessories possible.

675-8201* (IQ-FLB141 [N] (linear source shield)), 675-8203* (IL-FLB141 [W] / [M] (linear louver)), 675-8202* (IL-FLB141 [N] (linear source shield)), 675-8163 (IF-red-FLB141), 675-8162 (IF-green-FLB141), 675-8161 (IF-blue-FLB141), 675-8164 (IF-yellow-FLB141), 675-8102 (IO-360-FLB141 [M] / [N] (flood lens)), 675-8101 (IO-180-FLB141 [M] / [N] (wall wash lens)).

NOTES:

*Requires internal optical adaptor (IA) which must be ordered separately.
 675-8001 (IA-FLB141 (internal optical adaptor))

External optical accessories:

A maximum of one external optical accessory possible.
675-9201 (EG-FLB141 (wire guard)), 675-9202 (ES-FLB141 (glare shield)), 675-9204 (ED-FLB141 (barn doors)).

Page: 2/2

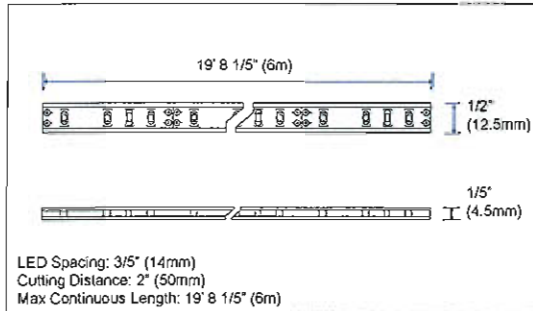
SPECIFICATION

Dimmable Wet Location LED Linear Flex System:

AQUAFLEX provides stable, consistent, energy efficient, ultra flexible solid state lighting. With a super low-profile it is able to meet any custom length at the designated cutting points. AQUAFLEX is housed in a high quality silicone sleeve and is supplied with mounting clips and end caps for simple installation. See MODA Metal for extrusion options.



Dimensions:



Output:

Delivered Lumens	124.30 lm / ft
CCT	4000k
Chromaticity Ordinates	x: 0.3793 y: 0.3831 u: 0.2219 v: 0.5042
Color Bin Tolerance	+ 3% / - 3%
Efficacy (lm/w)	93.46
CRI	84
Lumen Maintenance	70,000 Hours L70 @ 25°C : 90,000 Hours L50 @ 25°C 50,000 Hours L70 @ 50°C : 70,000 Hours L50 @ 50°C
Testing Data	Light Data LM-79-08 & LM-80-08

Illuminance at a Distance: Data Shown for 120°

(For lux multiply fc by 10.7)

	Center Beam FC	Beam Width
2.0 ft	10.08 fc	5.6 ft 5.8 ft
4.0 ft	2.52 fc	11.3 ft 11.5 ft
6.0 ft	1.12 fc	16.9 ft 17.3 ft
8.0 ft	0.53 fc	22.6 ft 23.1 ft
10.0 ft	0.40 fc	28.2 ft 28.9 ft
12.0 ft	0.28 fc	33.9 ft 34.6 ft

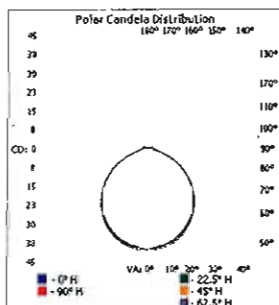
Vert. Spread: 109.4° Horiz. Spread: 110.6°

Electrical:

Input Voltage	12v DC
Power Consumption	1.33w / ft (0.11A) - Varies based on length of run & driver
Power Factor	≤ 1
Dimming	100-277v 0-10v & Magnetic Low Voltage
Emergency	N/A

Polar Candela Distribution:

Data Shown for 120°



Lumens per Zone:

Zone	Lumens	% Total
0-10	4.06	3.28%
10-20	11.70	9.41%
20-30	17.76	14.29%
30-40	21.45	17.26%
40-50	22.08	17.76%
50-60	19.48	15.67%
60-70	13.91	11.19%
70-80	6.87	5.53%
80-90	1.60	1.92%
90-100	1.53	1.23%

Physical:

Applications	Wet Locations, Cabinet, Cove, Display, Niches, Perimeter Lighting
Dimensions	Length 19' 8 1/5" (6m) Width 1/2" (12.5mm) Height 1/5" (4.5mm)
Weight	14.4 oz (408.2g) Per Reel
Construction	Constant Voltage Design Protects LEDs And Prolongs Life. White FPCB Inside a Silicone Sleeve
Thermal Management	N/A
Optics	N/A
Fixture Connections	Solder joints
Operating Temperature	-4°F ~ 122°F (-20°C ~ 50°C)
Storage Temperature	-40°F ~ 176°F (-40°C ~ 80°C)
Humidity	0-95% Non Condensing

Project Name: Top Golf -	Company:	P/O:	Type: X4	Date:
Notes: Webster, TX				

SPECIFICATION

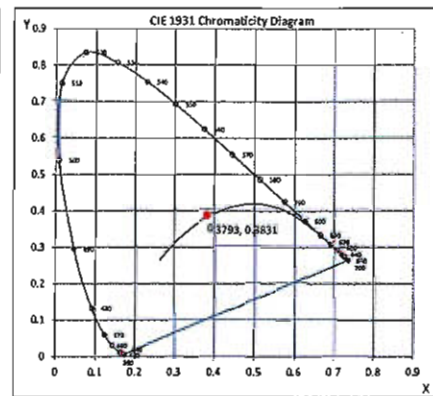
Zonal Lumen Summary:

Zone	Lumens	% Lamp	% Fixt
0-30	33.56	N.A.	27.00%
0-40	54.94	N.A.	44.20%
0-60	96.58	N.A.	77.70%
60-80	20.76	N.A.	16.70%
0-90	119.70	N.A.	96.30%
90-180	4.60	N.A.	3.70%
0-180	124.30	N.A.	100%

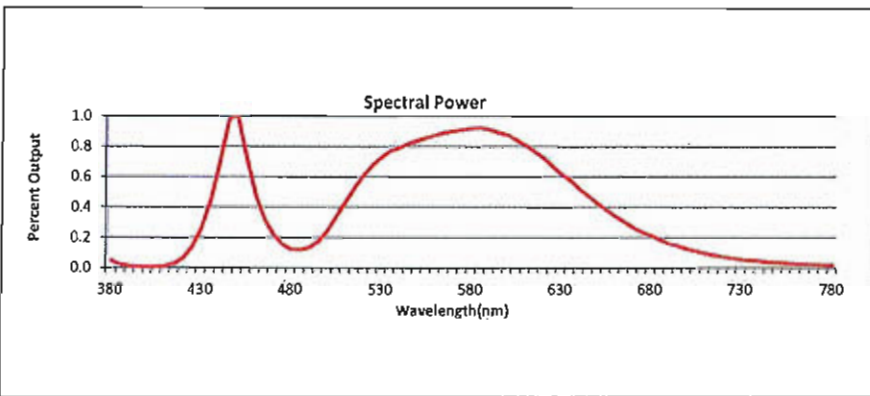
Luminance Data (cd/sq.m):

Angle in Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13131	9166	8191
55	12182	7580	6550
65	10345	5543	4643
75	6818	2926	2450
85	4385	1212	1050

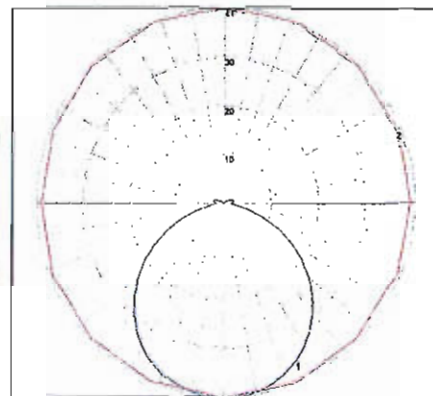
CIE 1931 Chromaticity Diagram:



Spectral Power:



Polar Graph: Data Shown for 120°



Accessories:

MRT50 Mounting Clips (20 Clips Supplied With Reel)	MRT51 Silicon Glue (1 Tube Supplied With Reel)	MRT52 End Cap (4 Caps Supplied With Reel)	MP16 12v DC 132w	MP18 12v DC 50w	MP82 12v DC 150w	MP82-277v 12v DC 150w
Screws into Surface To Hold AQUAFLEX	Applied Between AQUAFLEX and Connectors or Caps to Seal From Exposure	Attaches To AQUAFLEX To Protect FPCB From Dust or Water	Wet Location LED Power Supply	0-10v Dimming LED Power Supply	MLV Dimming LED Power Supply	MLV Dimming LED Power Supply
L: 1 1/5" (30mm) W: 1/5" (6mm) H: 1/5" (5mm) 2 Screws 1/2" (13mm)		L: 3/5" (15mm) W: 1/5" (5mm) H: 1/5" (5mm)	Non-Dimmable			

Standards and Certifications:

Certification	Tested to UL & CSA by ETL For Use in USA & CANADA, Complies with California Title 24 Requirements, Lighting Facts. Exceeds ANSI C78.377A, CE & RoHS Compliant.
Class	Class III
Environment	Wet Location - IP67
Warranty	5 Year Limited Warranty

Ordering:

SKU:	AQUAFLEX-4000K
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Date: _____ Type: _____

Firm Name: _____



eW Burst Powercore

High-output, exterior white spotlight for accent and site lighting

Ordering Information

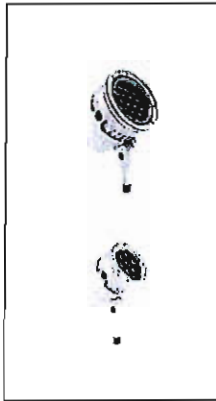
eW Burst Powercore Architectural

Item	Type	Size	Housing Color	Item Number	Philips 12NC
eW Burst Powercore Architectural UL / cUL	2700 K	Standard	Gray	523-000036-02	910503700744
			Black	523-000036-10	910503701795
			White	523-000036-18	910503701804
		Compact	Gray	523-000059-02	910503701663
			Black	523-000059-10	910503701926
			White	523-000059-18	910503701934
	4000 K	Standard	Gray	523-000036-03	910503700743
			Black	523-000036-11	910503701796
			White	523-000036-19	910503701805
		Compact	Gray	523-000059-03	910503701664
			Black	523-000059-11	910503701927
			White	523-000059-19	910503701935
eW Burst Powercore Architectural CE	2700 K	Standard	Gray	523-000036-04	910503701122
			Black	523-000036-12	910503701797
			White	523-000036-20	910503701806
		Compact	Gray	523-000059-04	910503701665
			Black	523-000059-12	910503701928
			White	523-000059-20	910503701936
	4000 K	Standard	Gray	523-000036-05	910503701123
			Black	523-000036-13	910503701798
			White	523-000036-21	910503701807
		Compact	Gray	523-000059-05	910503701666
			Black	523-000059-13	910503701929
			White	523-000059-21	910503701937
eW Burst Powercore Architectural CQC	2700 K	Standard	Gray	523-000036-06	910503701791
			Black	523-000036-14	910503701799
			White	523-000036-22	910503701808
		Compact	Gray	523-000059-06	910503701747
			Black	523-000059-14	910503701930
			White	523-000059-22	910503701938
	4000 K	Standard	Gray	523-000036-07	910503701792
			Black	523-000036-15	910503701801
			White	523-000036-23	910503701809
		Compact	Gray	523-000059-07	910503701748
			Black	523-000059-15	910503701931
			White	523-000059-23	910503701939

Use Item Number when ordering in North America.



eW Burst Powercore Landscape



Item	Type	Size	Housing Color	Item Number	Philips 12NC
eW Burst Powercore Landscape UL / cUL / CE	2700 K	Standard	Gray	523-000036-00	910503700694
			Black	523-000036-08	910503701793
			White	523-000036-16	910503701802
		Compact	Gray	523-000059-00	910503701664
			Black	523-000059-08	910503701924
			White	523-000059-16	910503701932
	4000 K	Standard	Gray	523-000036-04	910503700695
			Black	523-000036-09	910503701794
			White	523-000036-17	910503701803
		Compact	Gray	523-000059-01	910503701662
			Black	523-000059-09	910503701925
			White	523-000059-17	910503701933

Refer to eW Burst Powercore Specification Sheets for product specifications and photometric data.

Use Item Number when ordering in North America.

Accessories



Item	Type	Size	Housing Color	Item Number	Philips 12NC
Trim Ring	Standard		Gray	120-000103-00	910503701212
			Black	120-000103-06	910503701734
			White	120-000103-12	910503701737
	Compact		Gray	120-000103-03	910503701420
			Black	120-000103-09	910503701823
			White	120-000103-15	910503701826
45° Glare Shield	Standard		Gray	120-000103-01	910503701213
			Black	120-000103-07	910503701735
			White	120-000103-13	910503701738
	Compact		Gray	120-000103-04	910503701421
			Black	120-000103-10	910503701824
			White	120-000103-16	910503701827
Full Height Glare Shield	Standard		Gray	120-000103-02	910503701214
			Black	120-000103-08	910503701736
			White	120-000103-14	910503701739
	Compact		Gray	120-000103-05	910503701422
			Black	120-000103-11	910503701825
			White	120-000103-17	910503701828
Honeycomb Louver	Standard		Black	120-000104-00	910503701215
	Compact		Black	120-000104-01	910503701419
Spread Lenses	14°	Standard		120-000080-00	910503700609
		Compact		120-000080-04	910503701415
	23°	Standard		120-000080-01	910503700610
		Compact		120-000080-05	910503701416
	41°	Standard		120-000080-02	910503700611
		Compact		120-000080-06	910503701417
	10° x 41° asymmetric	Standard		120-000080-03	910503700612
Compact		120-000080-07	910503701418		

You can attach either one Honeycomb Louver or one Spread Lens at a time.

Use Item Number when ordering in North America.



Philips Color Kinetics
3 Burlington Woods Drive
Burlington, Massachusetts 01803 USA
Tel 888.385.5742
Tel 617.423.9999
Fax 617.423.9998
www.philipscolorkinetics.com

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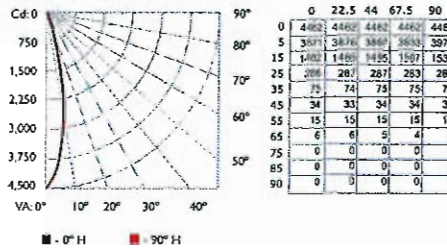
DAS-000032-11 R01 04-11

eW Burst Powercore
2700 K, 23° spread lens

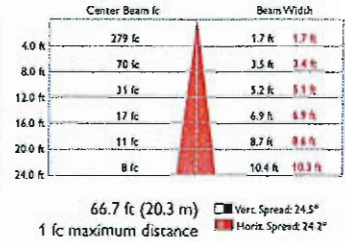
Lumens 1004
Efficacy 34.3 lm / W



Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaires
0-30	914.9	91.1%	91.1%
0-40	963.9	96%	96%
0-60	1,001.0	99.7%	99.7%
60-90	3.3	0.3%	0.3%
0-90	1,004.3	100%	100%
90-180	0	0%	0%
0-180	1,004.3	100%	100%

Efficiency Total: 100%

Coefficients Of Utilization - Zonal Cavity Method

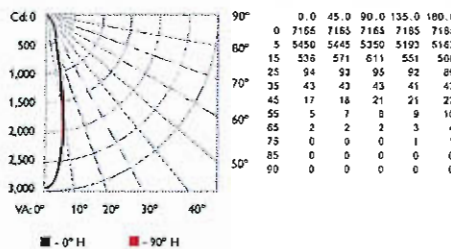
Effective Floor Cavity Reflectance: 20%

RCR:	30				70				50				30				10			
RW:	20	50	30	0	20	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.00
1	1.15	1.13	1.11	1.09	1.12	1.11	1.09	0.97	1.07	1.05	1.04	1.03	1.02	1.01	0.99	0.99	0.98	0.98	0.98	0.96
2	1.11	1.09	1.04	1.01	1.09	1.05	1.03	0.93	1.02	1.00	0.99	0.98	0.98	0.96	0.95	0.94	0.93	0.93	0.92	0.90
3	1.07	1.01	0.95	0.95	1.05	1.01	0.97	0.90	0.96	0.95	0.93	0.92	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.89
4	1.03	0.98	0.91	0.91	1.02	0.97	0.93	0.87	0.95	0.92	0.89	0.93	0.90	0.88	0.88	0.88	0.87	0.87	0.87	0.86
5	1.00	0.94	0.90	0.86	0.99	0.93	0.89	0.84	0.92	0.88	0.85	0.90	0.87	0.85	0.85	0.84	0.83	0.83	0.83	0.81
6	0.97	0.91	0.86	0.83	0.96	0.90	0.86	0.81	0.88	0.85	0.82	0.87	0.84	0.82	0.82	0.81	0.80	0.80	0.80	0.78
7	0.94	0.87	0.83	0.80	0.93	0.87	0.83	0.78	0.86	0.82	0.79	0.85	0.81	0.79	0.79	0.78	0.77	0.77	0.77	0.75
8	0.91	0.85	0.80	0.77	0.90	0.84	0.80	0.74	0.83	0.79	0.77	0.82	0.79	0.77	0.77	0.76	0.75	0.75	0.75	0.73
9	0.89	0.82	0.78	0.75	0.88	0.82	0.77	0.71	0.81	0.77	0.74	0.80	0.77	0.74	0.74	0.74	0.73	0.73	0.73	0.71
10	0.87	0.80	0.75	0.73	0.86	0.79	0.75	0.72	0.78	0.75	0.72	0.78	0.75	0.72	0.72	0.71	0.71	0.71	0.71	0.70

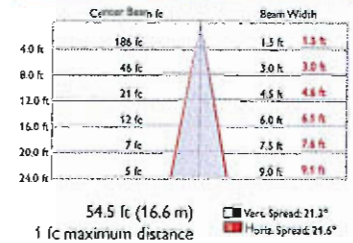
eW Burst Compact Powercore
2700 K, 23° spread lens

Lumens 540
Efficacy 36.2 lm / W

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	492	91.2
0- 40	516	95.5
0- 60	536	99.3
0- 90	540	100.0
90-180	0	0.0
0-180	540	100.0

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80			70			50			30			10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
0	119119119119	116116116116	1111111111	106106106	102102102	100											
1	1151131111109	113111109107	107105104	103102101	100	99											
2	111107104102	109106103101	103100	98	100	98											
3	107103	99	96	106101	98	95											
4	104	99	95	92	102	98											
5	101	95	91	88	100	94											
6	98	92	88	85	97	91											
7	95	89	85	82	94	88											
8	93	86	82	79	92	86											
9	90	84	80	77	90	83											
10	88	82	78	75	88	81											

For lux multiply fc by 10.7

Vaya Linear MP, RGB

Vaya Linear MP RGB is a reliable and cost effective LED lighting fixture designed for fixed or dynamic colorful lighting effects. With wide and elliptical beam options, Vaya Linear MP is ideal for wall washing and grazing applications. Integrated power and unified power & data connectors make installations fast, easy and reliable.



Key Features

- Reliable, cost effective LED lighting fixture
- Unified power & data connectors
- Available with 10°x50° or 50° Beams
- Auto-ranging 100V – 277V, 50 / 60Hz input
- Interior / Exterior - IP66
- 3 Years Warranty

Product Data

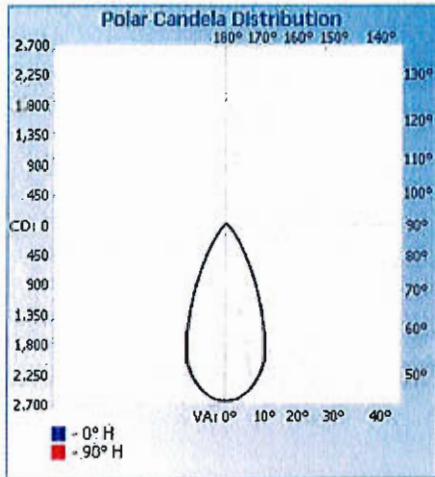
Width	64 mm (2.5in)	
Height	102 mm (4.0in) including mounting hinge	
Length	310 mm (1 ft)	1210 mm (4 ft)
Mounting	Location adjustable and tilting surface-mount bracket	
Source	High-brightness Red, Green and Blue LEDs	
Beam Angle	Elliptical (10° x 50°) or Wide (50°)	
Luminous Flux	450 lumens	1,800 lumens
Lumen Maintenance	50,000 hrs L ₅₀ at 25°C	
Housing	Extruded aluminum, anodized finish RAL7043	
Weight	1.3 kg (2.85 lbs)	3.6kg (7.9 lbs)
Connection	Combined power & data input and output connectors	
Lens	Tempered Glass	
Control	DMX-512 control, 3 channels per fixture	
Input Voltage	100V – 277 VAC, 50 / 60Hz	
Power Consumption	18 W	60 W
Temperature Range	-20°C to 40°C (-4°F ~104°F) start-up temperature -40°C to 40°C (-40°F ~104°F) operating temperature	
Protection Rating	IP66, Wet location listed, IK06	
Certifications	UL / cUL, FCC Class A	
Warranty	3 Years	

Data sheet

Photometrics (Per IESNA LM-79):

Vaya Linear MP RGB, 50deg, 1.2m (4ft)

Polar Candela Distribution

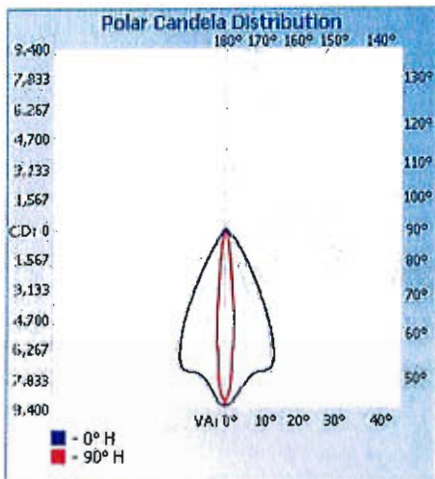


Illuminance at a Distance



Vaya Linear MP RGB, 10x50deg, 1.2m (4ft)

Polar Candela Distribution



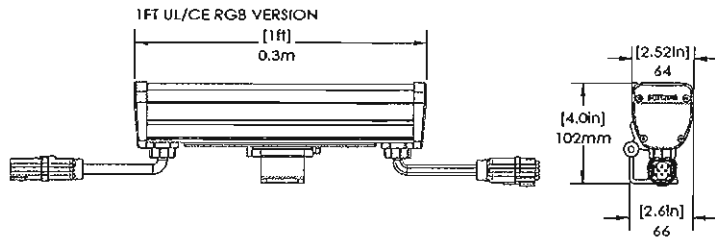
Illuminance at a Distance



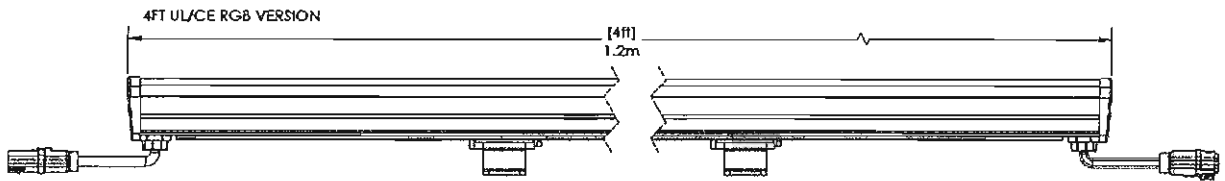
Data sheet

Dimensions:

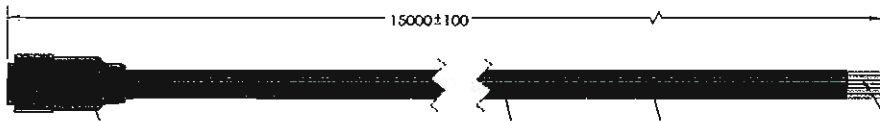
0.3m (1ft) Length



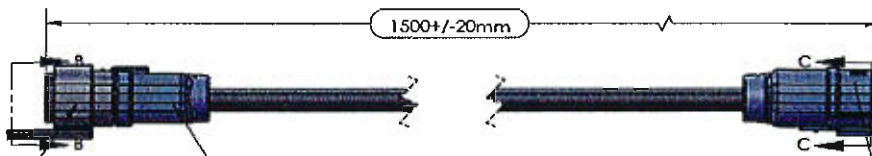
1.2m (4ft) Length



Leader Cable Dimensions:



Jumper Cable Dimensions:



Vaya Linear MP RGB Ordering Codes:

Length	Beam Angle	Philips I2NC	Item Number	Certification
1ft	50°	912400130060	316-000011-04	UL
1ft	10° X 50°	912400130061	316-000011-05	UL
4ft	50°	912400130062	316-000011-06	UL
4ft	10° X 50°	912400130063	316-000011-07	UL

Depends on fixture distance from power source

Vaya Linear LP-MP RGB Cables:

Length	Product	Philips I2NC	Item Number	Certification
50ft	RGB Leader Cable	912400130053	308-000003-09	UL
5ft	RGB Jumper Cable	912400130055	308-000003-11	UL

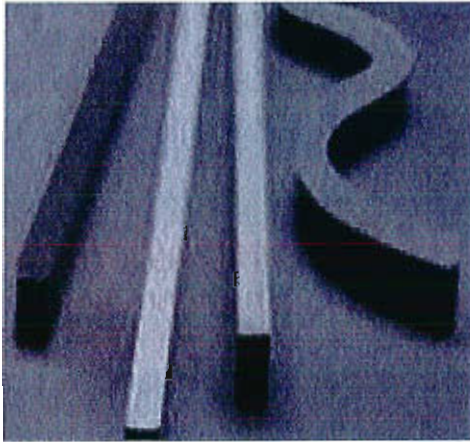
Vaya Linear MP Accessories:

Product	Length	Philips I2NC	Item Number	Certification
Mounting Hinge	1 piece	912400133635	320-000011-02	UL/cUL, CE, CQC

Maybe needed depending on where it will be mounted and if you would like fixture to be adjustable

Plexineon Color Series - Cool Colors

PRODUCT SUMMARY



PRODUCT FEATURES

- Bright, even-toned color
- Durable construction
- Long life
- Energy efficient
- Low voltage
- Easy to install
- Cool to the touch
- For use as exterior or interior accent lighting, direct view or indirect view applications, coves, signage & more

Light Colors

- Blue
- Teal
- Green

Diffuser Color

- Frosted (when not illuminated)

Lengths Available

- 2', 4', 6', 8' (610 mm, 1219 mm, 1830 mm, 2438 mm)
- 2' (610mm) field cuttable pieces
- Illuminated outside corner pieces
- Factory custom lengths available to the nearest 1/2" (13mm) +/- 0.25" (6mm)
- Factory convex or concave bends to minimum inside radius of 5" (127mm)¹
- Factory "easy bends" to 3/16" (5mm)¹ radius
- Gentle field bends to a 48" (1219mm) radius²

Power Supply

- Class 2 24VDC, 100 Watts - must be supplied by iLight
- Primary voltage: 120 or 120-277 depending on model
- Secondary voltage: 24VDC 4.1 A Max
- Maximum illumination length of a single LED power supply: 32 feet (9.75m)

Power Supply Tips

- 20% overage for breaker for primary current draw
- Do not plug multiple power supplies into one run of Plexineon
- All iLight power supplies should be on an independent circuit
- Recommend surge protection upstream from power supply
- Verify correct voltage prior to wiring to non-switching power supplies

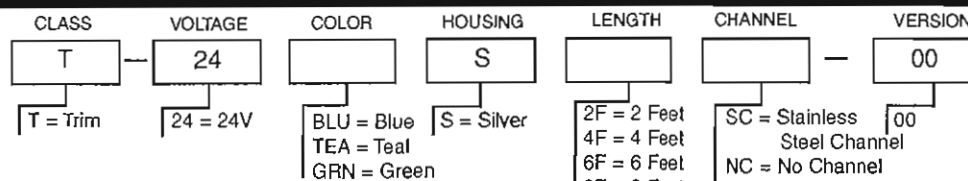
Low Voltage Cable

Maximum distance of low voltage cable in any given run:

- 14 AWG: 40 feet (12.19m)
- 12 AWG: 60 feet (18.29m)
- 10 AWG: 100 feet (30.48m)

1. Drawing required for production
2. Field bending allowed only on fixtures without C-channel

ORDERING INFORMATION



Specification sheets are subject to change without notice. For the most recent version, please refer to www.ilight-tech.com.

MK-0809

Plexineon Color Series - Cool Colors

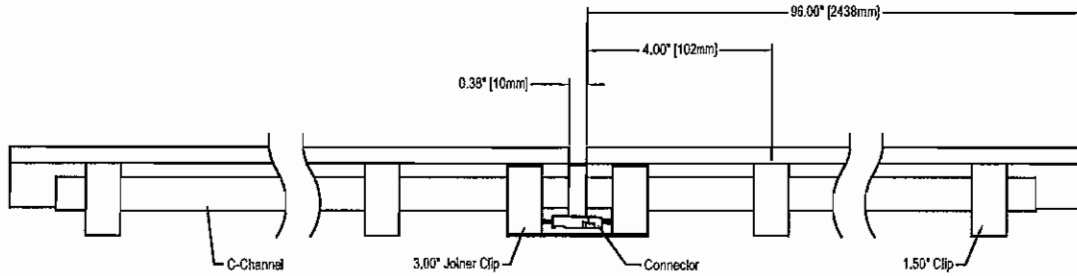
TECHNICAL INFORMATION

MECHANICAL	<p>Width & Height Housing</p> <ul style="list-style-type: none"> • 0.55"(14mm)w x 1.35"(34mm)h with C-channel • UV and impact resistant acrylic diffuser • UV resistant plastic channel • Stainless steel C-channel for mechanical support <p>Minimum Piece Spacing</p> <ul style="list-style-type: none"> • Linear (end to end) = 3/8" (10mm) • Parallel (edge to edge) = 1" (25mm) <p><small>*The minimum space for ventilation surrounding the Plexineon product is 1.0". This distance should be maintained on the three sides, left and right of the product as well as in front of product. Other configurations subject to specific application testing.</small></p>	<p>Mounting</p> <ul style="list-style-type: none"> • Stainless steel spring mounted clips • Clips to be 2" (51mm) in from end of piece and no more than 2' (610mm) maximum between clips <p>Power Supply Weight</p> <ul style="list-style-type: none"> • Electronic (Advance) Power Supply is 2 lbs. (0.9 kg) • Outdoor Magnetic Hybrid Power Supply is 9 lbs. (4 kg) <p>Power Supply Dimensions</p> <ul style="list-style-type: none"> • Electronic (Advance) = 9.50" x 1.18" x 1.70" (242mm X 30mm X 43mm) • Outdoor Magnetic Hybrid= 11.25" x 3.25" x 3.36" (286mm x 83mm X 85mm)
ELECTRICAL	<p>Load Voltage 24V DC</p> <p>Load Current 108 mA/foot at 24VDC (354 mA/meter) 2.59 watts/foot (8.50 watts/meter)</p> <p>Maximum Run Length 32 feet (9.75m) with an iLight approved power supply</p>	<p>DC Cable</p> <ul style="list-style-type: none"> • 14 AWG, PVC/Nylon Type TC 600 Volt power and control cable or equivalent • FT-4 fire rating • Class 2 wiring system • Connectors: Molex Splashproof - JIS D0203 S2 <p>Electrical Tips</p> <ul style="list-style-type: none"> • Only use iLight approved power supplies • Do not cut non-cutable pieces
ENVIRONMENTAL	<p>Operating Temperature Range -25°C to 50°C (-13°F to 122°F)</p> <p>Storage Temperature Range -25°C to 75°C (-13°F to 167°F)</p>	<p>Certification</p> <ul style="list-style-type: none"> • Plexineon is MetLabs listed. MetLabs is a Nationally Recognized Testing Laboratory (NRTL). Complies with UL 1598 and CSA c22.2 No. 250 in Luminaire, Wet location listed. • Power Supplies are RU listed. RU stands for Recognized Components by Underwriters Laboratory.

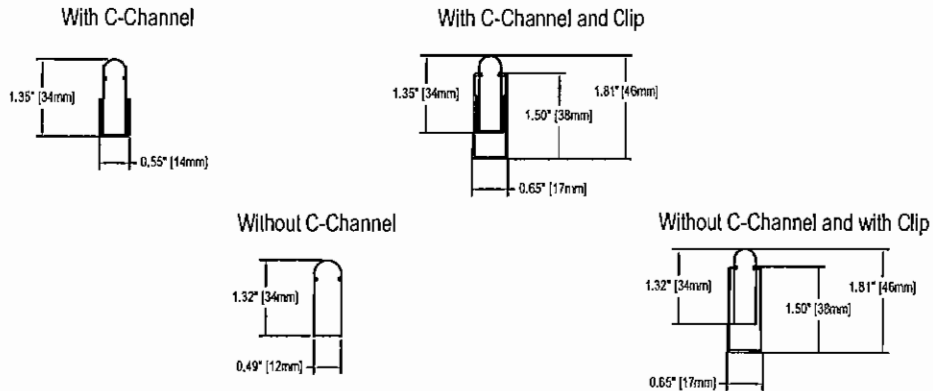
Plexineon Color Series - Cool Colors

TECHNICAL INFORMATION

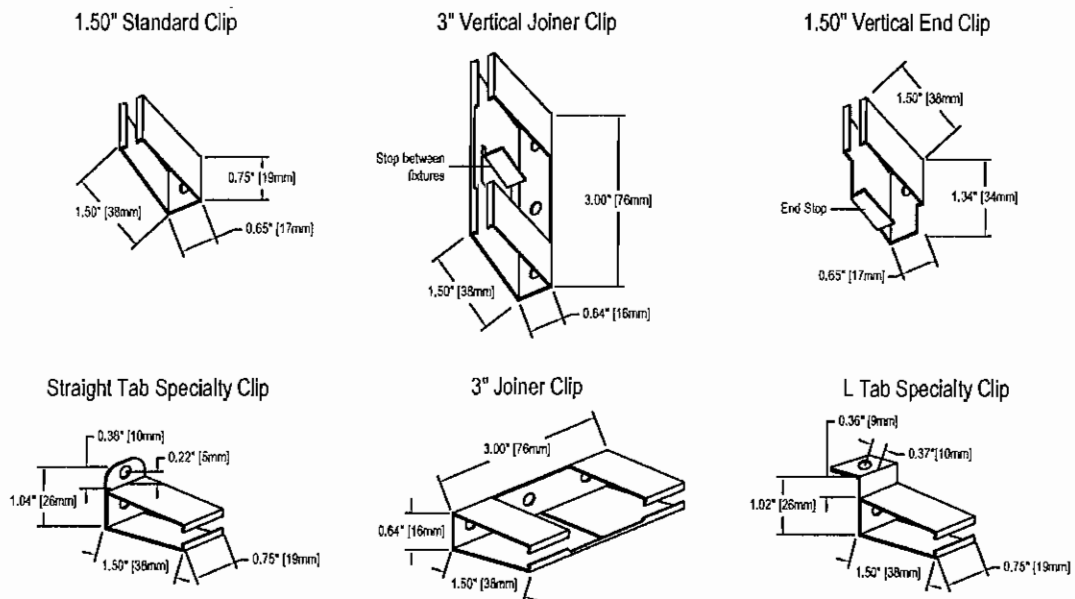
PLEXINEON PROFILE



PLEXINEON CROSS SECTIONS



MOUNTING CLIPS

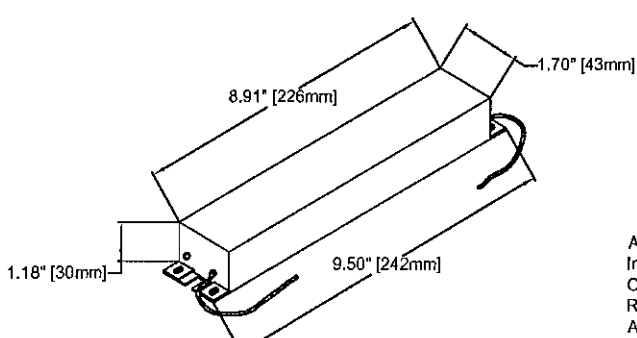
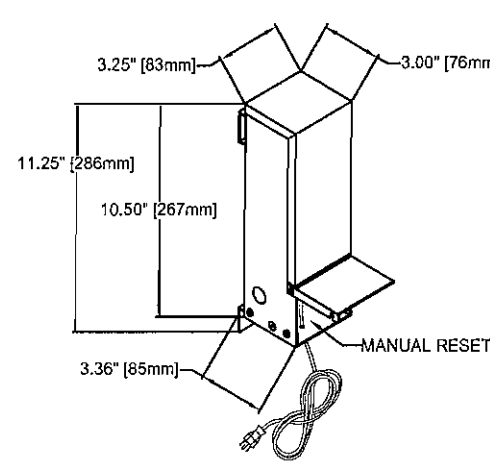
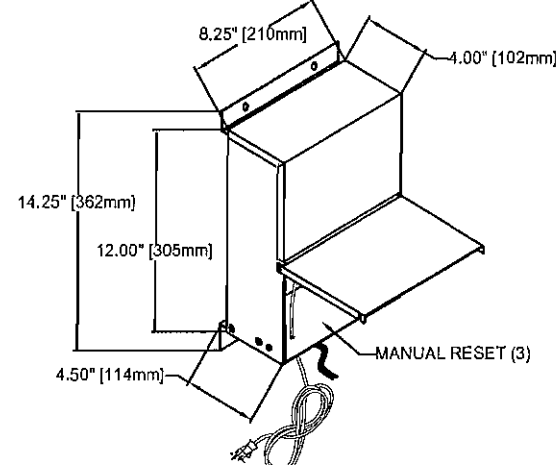


Note: Mounting Hole = Ø3/16"

Plexineon Color Series -Cool Colors

TECHNICAL INFORMATION

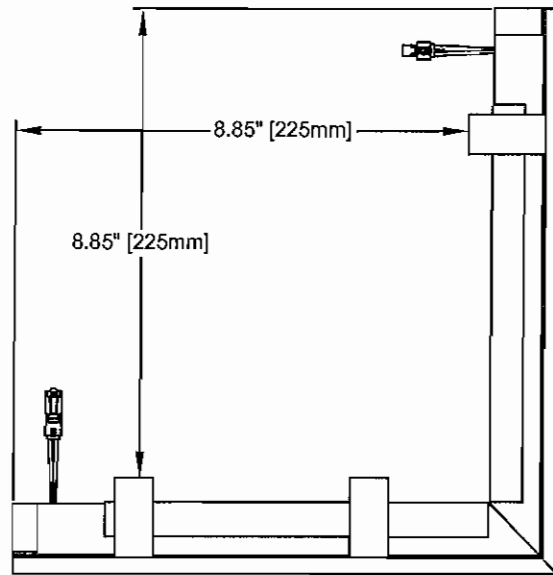
Plexineon Power Supplies

<p>ELECTRONIC (ADVANCE) POWER SUPPLY</p>	 <p>1.18" [30mm] 8.91" [226mm] 1.70" [43mm] 9.50" [242mm]</p> <p>ADV100W24V Input: 120-277VAC 50/60Hz Output: 24VDC 4Amax RU listed for U.S. and Canada Additional enclosure may be required 2 lbs. (0.9kg)</p> <p>DRY ☀️</p>
<p>MAGNETIC HYBRID POWER SUPPLY IN 3R ENCLOSURE</p>	 <p>3.25" [83mm] 3.00" [76mm] 11.25" [286mm] 10.50" [267mm] 3.36" [85mm] MANUAL RESET</p> <p>PN10124DCR-3R Input: 120VAC 50/60Hz Output: 24VDC 4Amax RU listed for U.S. Enclosed in NEMA 3R enclosure 9 lbs. (4kg)</p> <p>DRY DAMP ☀️💧</p>
<p>MAGNETIC HYBRID 3-OUTLET POWER SUPPLY IN 3R ENCLOSURE</p>	 <p>8.25" [210mm] 4.00" [102mm] 14.25" [362mm] 12.00" [305mm] 4.50" [114mm] MANUAL RESET (3)</p> <p>PNC224024DCR-3R Input: 120VAC 60Hz Output: 24VDC 4Amax X 3 RU listed for U.S. Enclosed in NEMA 3R enclosure 25 lbs. (12kg)</p> <p>DRY DAMP ☀️💧</p>

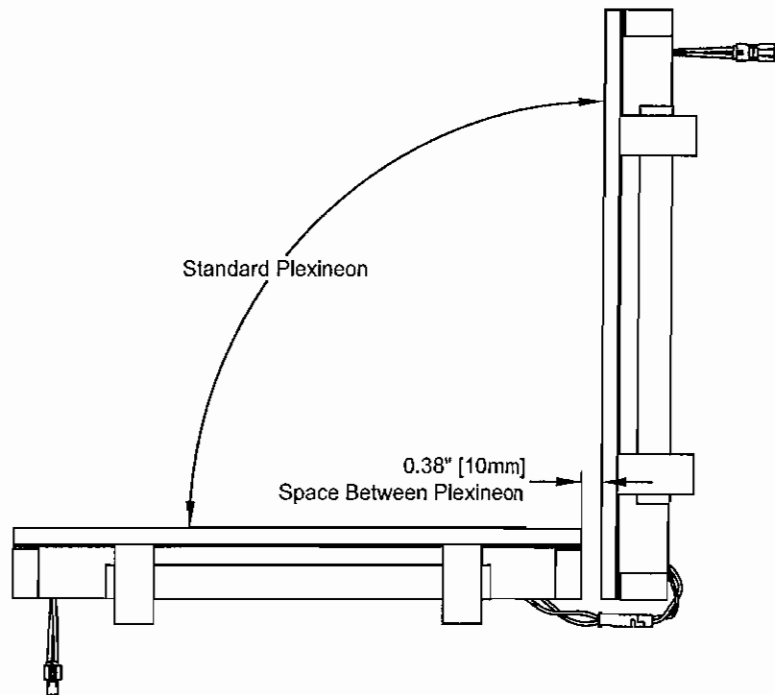
Plexineon Color Series - Cool Colors

TECHNICAL INFORMATION

OUTSIDE CORNER



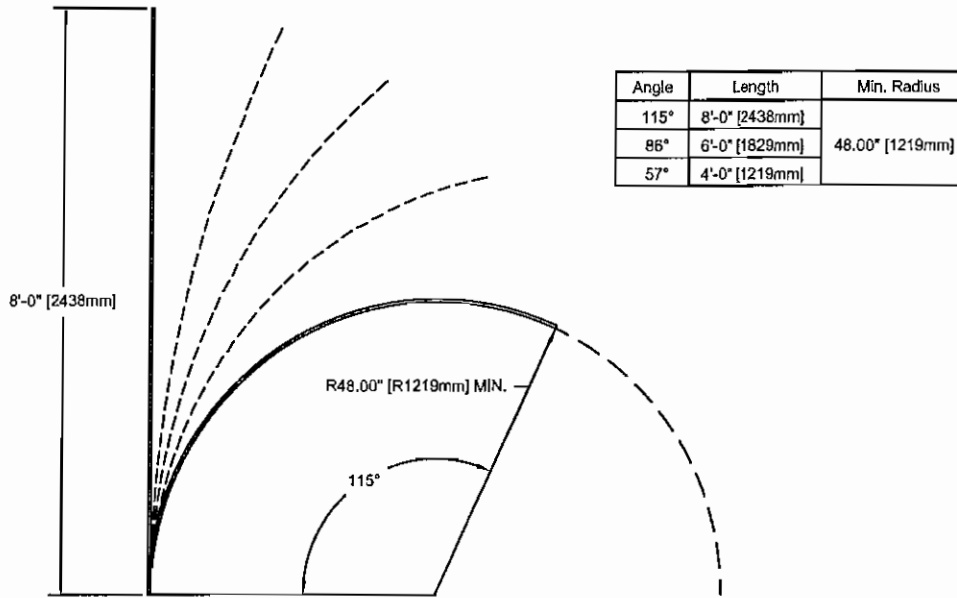
INSIDE CORNER



Plexineon Color Series - Cool Colors

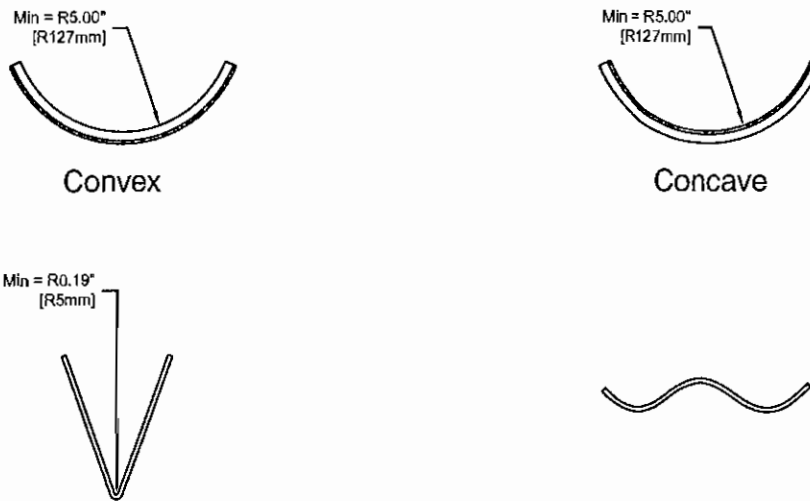
TECHNICAL INFORMATION

PLEXINEON FIELD BENDING-1-3



Note 1: Field bending shown in easy direction. Cannot field bend into convex or concave bends.
 Note 2: Easy direction refers to bend axis parallel to light direction.
 Note 3: Field bending allowed only on fixtures without C-channel.

PLEXINEON FACTORY BENDING



Power Supplies

TECHNICAL INFORMATION

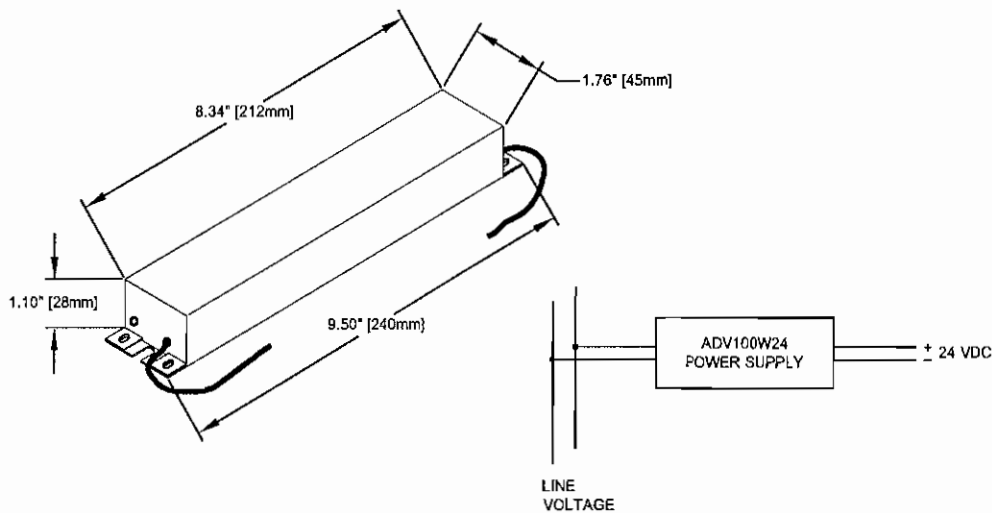
Electronic Xitanium Power Supply

Features

- Input: 120-277VAC Xitanium Multiple Voltage 50/60Hz
- Output: 24VDC 4.1A Max regulated inherently limited class 2 driver with inherent short-circuit protection
- Approvals: RU recognized for U.S. and Canada, CE, RoHS compliant
- Dimensions: 9 1/2" x 1 1/4" x 1 3/4" (242mm X 30mm X 43mm)
- Manufacturer's warranty of 5 years
- Additional electrical enclosure required (not included)

*RU is a recognized component covered under UL's recognition service. Final acceptance of the component is dependent upon its installation. For more information about Recognized Components, visit UL's Website at <http://www.ul.com/about/glossary.html>. When installing any power supply it is important to abide by all local and national electrical codes.

Description	Input			Output			Case Temp Max (°C)	Weight (Grams)
	Volts (V)	Power Max (W)	Current Max (A)	Power Max (W)	Voltage Norm (V)	Current Max (A)		
100 Watt	120	117.0	0.98	100.0	24.0	4.1	90	635
	230		0.51					
	277		0.042					



ORDERING INFORMATION

Order Number: ADV100W24V

Specification sheets are subject to change without notice. For the most recent version, please refer to www.ilight-tech.com.

Product Application

Plexineon & Hypnotica iS

Plexineon®

Installation Manual



iLight Technologies, Inc.

118 South Clinton, Suite 370
Chicago, IL 60661, USA
Tel: 312.876.8630
Fax: 312.876.8631
support@ilight-tech.com
www.ilight-tech.com

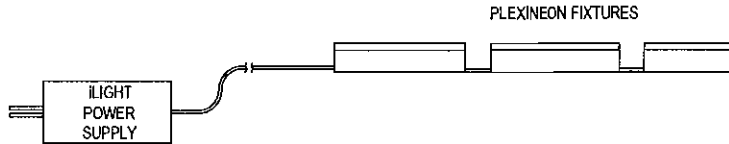


PLEXINEON QUICK INSTALL TIPS

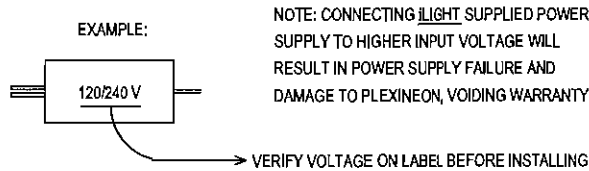


PLEASE NOTE: THIS IS NOT INTENDED TO SUBSTITUTE THE INSTALLATION GUIDE.
PLEASE REFER TO INSTALLATION GUIDE FOR COMPLETE INSTRUCTIONS PRIOR TO INSTALLATION.

1. OVERVIEW



2. POWER



3. POWER SUPPLY CAPACITY

ONE POWER SUPPLY WILL OPERATE ONE LINE ITEM FROM TABLE "A" AND ONE FROM TABLE "B"

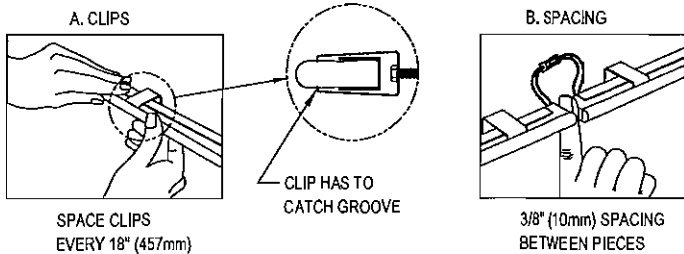
A. PLEXINEON MAX. LENGTH

MAX LINEAR FEET	PLEXINEON COLOR
48 FT (14.6m)	RED, ORANGE, AMBER
32 FT (9.8m)	BLUE, GREEN, TEAL, WHITE 1X, MAGENTA
20 FT (6m)	WHITE 2X

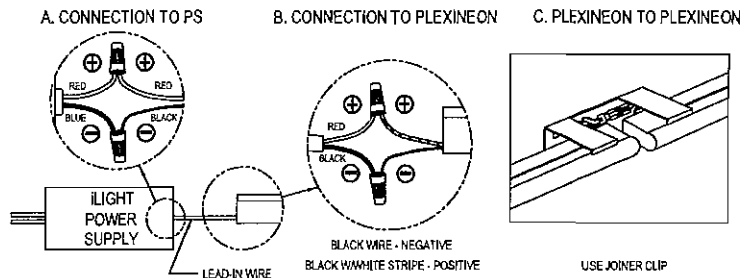
B. LEAD WIRE

DISTANCE	WIRE GAUGE
100 FT (30.5m)	10
60 FT (18.3m)	12
40 FT (12.2m)	14

4. MOUNTING



5. PLEXINEON WIRE



TECHNICAL GUIDE

FIXTURE: XOF

GOLD-Series™

Optimizing Spill Light Control



Qualite
SPORTS LIGHTING, LLC

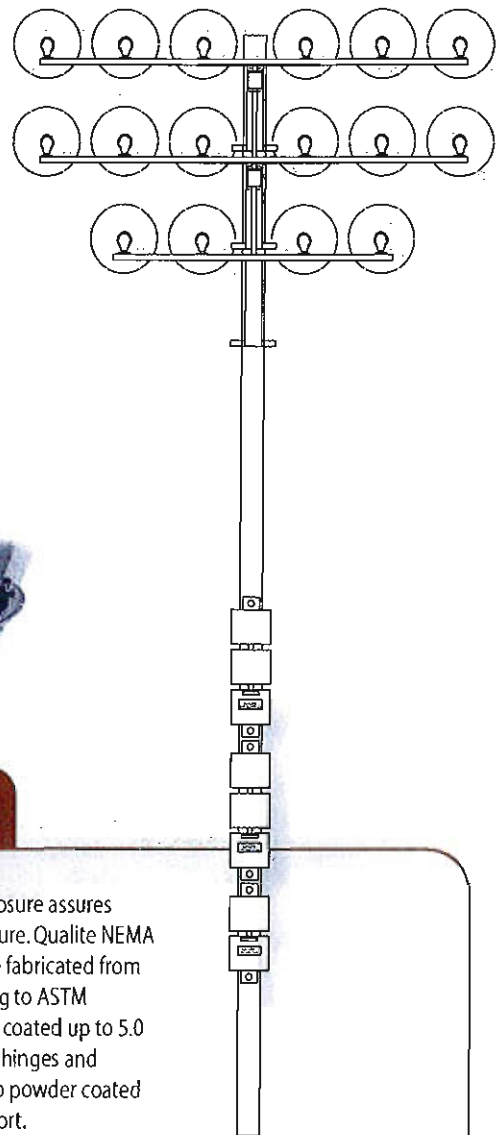
THE NEW GENERATION OF SPORTS LIGHTING

CONTENTS

System Assembly	3
Options	3
Maintenance Diagnostic System	4
Typical Circuit Design	4
Pro Reflector Assembly	5
Basic Assembly Configurations and Mounting	6
Optional Service Baskets	7
Back-to-Back Service Baskets	7
Control Equipment	7
System Assembly Weights	8
Typical Assembly Number	8
Qualite Warranty	8



Gold-V Reflector
with riveted .040 aluminum powder coated visor.



THE QUALITE® LIGHTING SYSTEM

Qualite remote ballast lighting systems begin with a patented 25" highly polished alzac coated reflector supported by a completely anodized aluminum mogul housing and support arm. All seals are of the highest grade materials and all fasteners are clear coated stainless steel or aluminum for longevity.

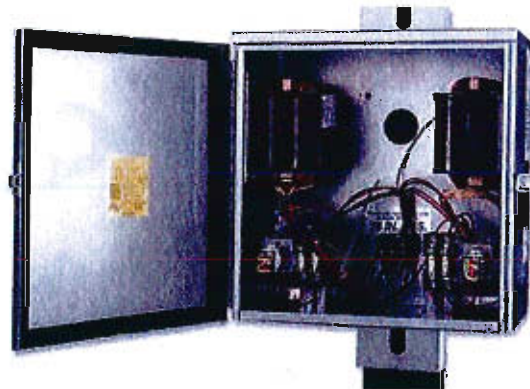
Qualite heavy-duty crossarms are fabricated then hot-dipped galvanized to ASTM A123 standards. Crossarms are custom engineered and built to comply with local wind zones. Crossarms are fed from the remote ballast enclosures by multi-conductor VNTC tray cables supported within the pole by stainless strain relief. Ballast are CWA ANSI M48 (1500W) or M112 (1650W) and are UL Listed.

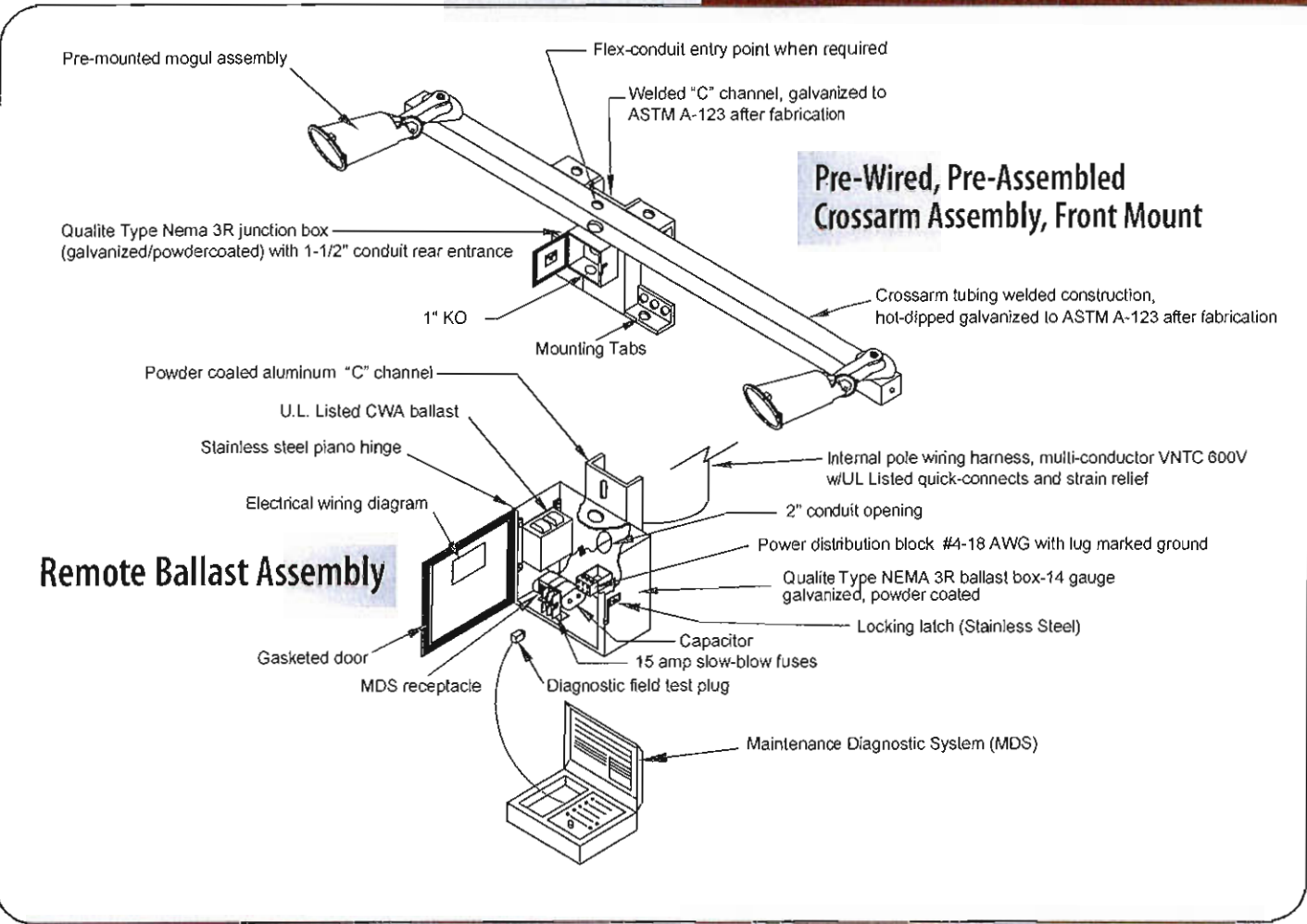
No more than (2) ballast per enclosure assures cool running enclosure temperature. Qualite NEMA Type 3R enclosures and doors are fabricated from galvanized sheet steel conforming to ASTM A653/G90 standards and powder coated up to 5.0 mils. Each enclosure has stainless hinges and locking latches and is mounted to powder coated aluminum back channel for support.

All Qualite Lighting Systems are factory wired U.L. listed, pre-assembled and pre-aimed for shipment.

ENCLOSURE STANDARDS

ASTM 653 G90 Sheet Steel	ASTM D3359 Cross Hatch
ASTM D2794 Dir/Rev Impact	Adhesion 5b (no loss)
ASTM D522 Flexibility, Mandrel	ASTM B117 Salt Spray
ASTM D3363 Pencil Hardness	





OPTIONS

- Stainless steel/powder coated ballast boxes
- Wire harness
- Top/bottom wire entrance
- Rear wire entrance
- Pole disconnect
- Pole breaker
- Other _____
- Service basket
- Hail shroud
- QCC
- ReQUEST

See Pg. 7 for more information

Gold-V Reflector



Lamp Options

- 1000 W
- 1500 W
- 1650 W

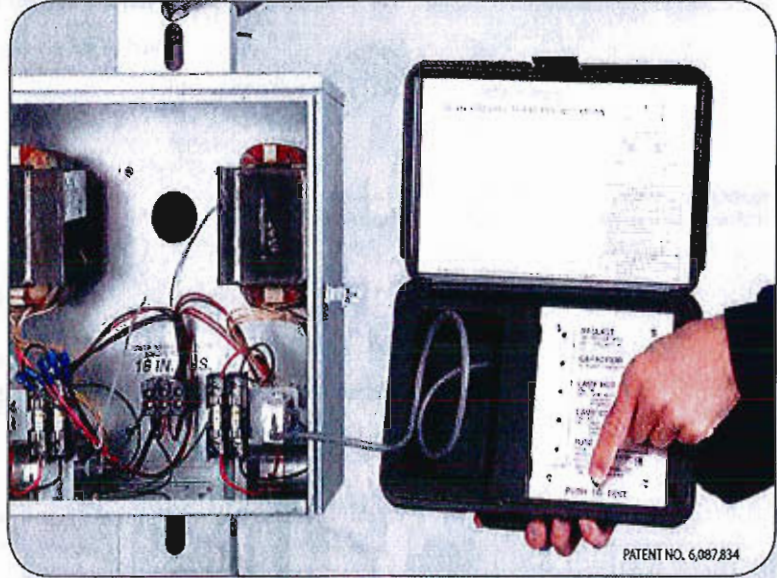
Voltage	Phase	Ballast Position	Crossarm Position	Poles
• 120V • 277V	• Single phase	• Front Mount (Field side)	• Front Mount (Field side)	• Steel DB AB
• 208V • 347V	• 3-phase	• Rear Mount (Opposite field side)	• Rear Mount (Opposite field side)	• Concrete DB
• 240V • 480V				• Other existing
				• AB (Anchor Base)
				• DB (Direct Burial)

MAINTENANCE DIAGNOSTIC SYSTEM

The Maintenance Diagnostic System is an exclusive UL Listed diagnostic testing analyzer integrated into all Qualite Lighting Systems. By utilizing a quick multi-pin connector, the MDS can isolate and troubleshoot common problems associated with HID lighting circuits such as a failed ballast, shorted lamp condition, failed capacitors or fuses. The MDS, with all incoming power off, will show test results with indicator lights on the display panel of the analyzer enclosure.

The enclosure is molded of high-density polyethylene and measures 12-1/16" x 8" x 3-1/8". It's printed circuit board and connectors are UL recognized/certified components.

The internal conductors are rated 300V, 60 degrees C minimum. The connection cable is multi-conductor AWM stranded 22 AWG minimum.

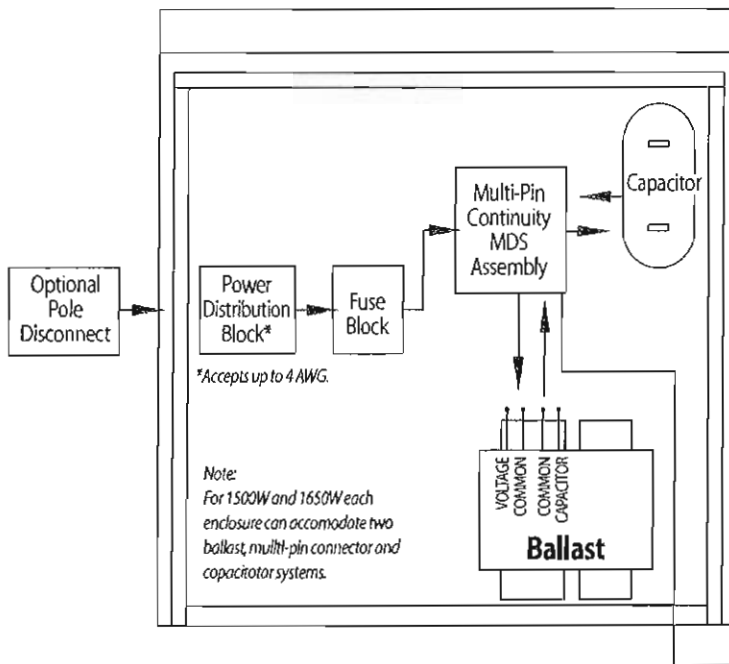


To operate the analyzer, open the de-energized ballast enclosure and unplug the multi-pin continuity plug. Plug in the analyzer's multi-pin connector and press the test button. Indicator lights diagnose the problem. All MDS analyzers contain printed instructions within the enclosure lid and carry Qualite's standard ten year warranty.

TYPICAL CIRCUIT DESIGN

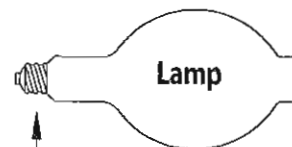
3 PHASE SYSTEM

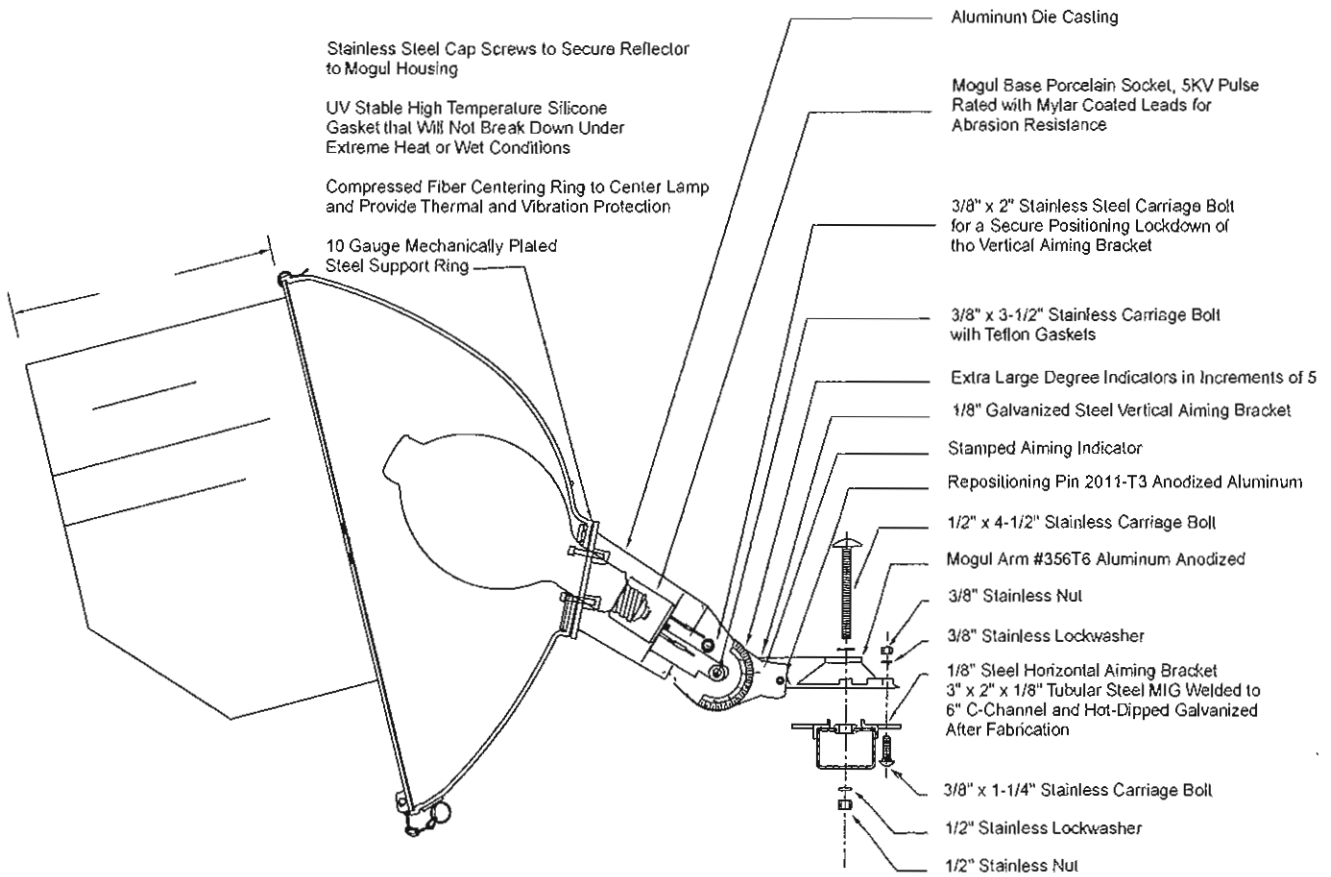
Fixture loading is distributed evenly across the phases.
Actual system loads are balanced by the contractor.



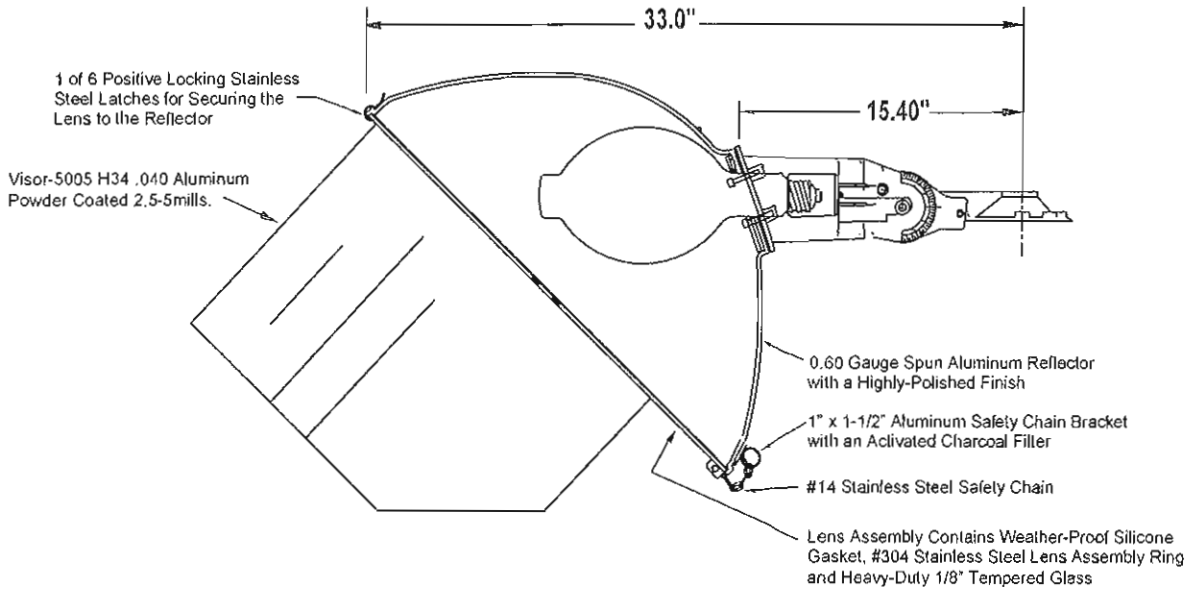
OPERATION DATA

V	1000W	1500W	1650W
480	2.3A/1.08 KW	3.5A/1.625 KW	4.0A/1.765 KW
347	3.2A/1.08KW	4.7A/1.625 KW	5.1A/1.765 KW
277	3.9A/1.08KW	6.0A/1.625 KW	6.6A/1.765 KW
240	4.5A/1.08KW	7.0A/1.625 KW	7.6A/1.765 KW
208	5.5A/1.08KW	7.9A/1.625 KW	8.75A/1.765 KW
120	9.0A/1.08KW	N/A	N/A





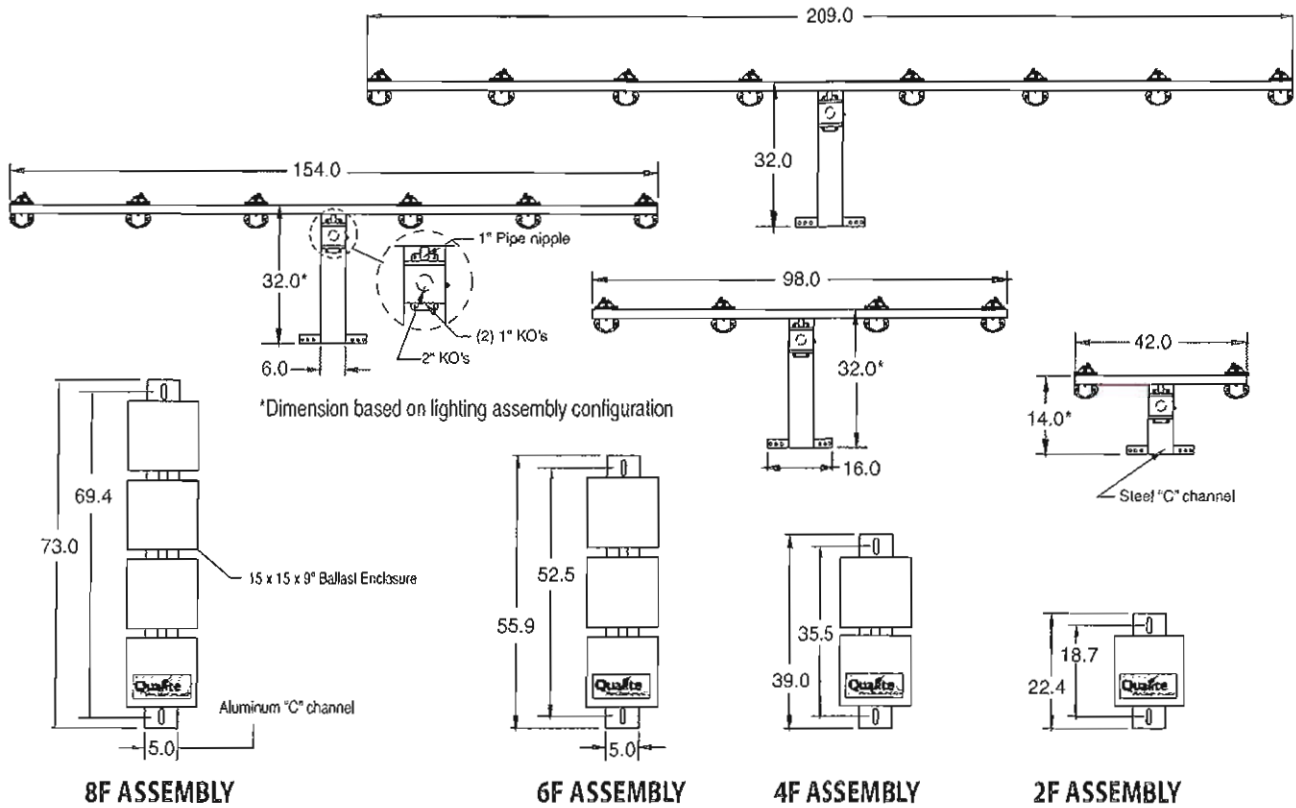
Material thickness may vary with local codes.



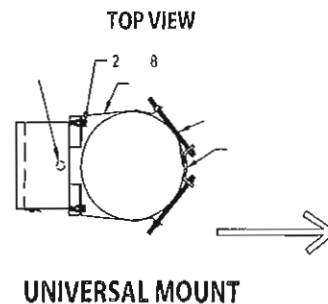
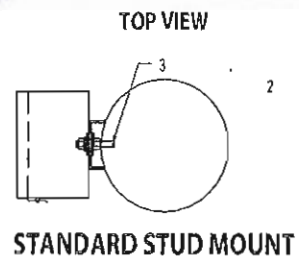
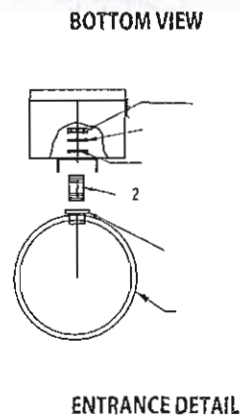
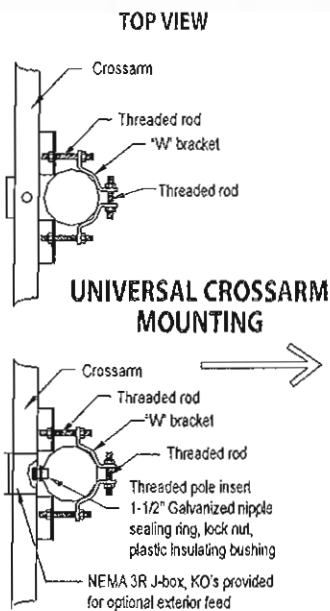
Qualite
SPORTS LIGHTING, LLC

--- THE NEW GENERATION OF SPORTS LIGHTING ---

BASIC ASSEMBLY CONFIGURATIONS & MOUNTING



- Ballast and cross-arm assemblies are shipped pre-wired and factory assembled with pre-aimed mogul housings attached
- Each ballast enclosure assembly is pre-wired requiring only one power feed located in the bottom enclosure
- All ballast enclosure assemblies are pre-assembled to aluminum back channel as shown above
- Pole assemblies will vary depending on lighting requirements



1766TT

Kube

The Kube collection features a variety of sleek designs. Here, the cast aluminum construction features a Titanium finish and a slanted piece of clear etched organic rain glass creating a waterfall effect with the light.

Width: 6"

Height: 6"

Weight: 4 lbs.

Material: Extruded Aluminum

Glass: Etched Glass Lens

Bulb: One 75w Medium Base

Voltage: 120v

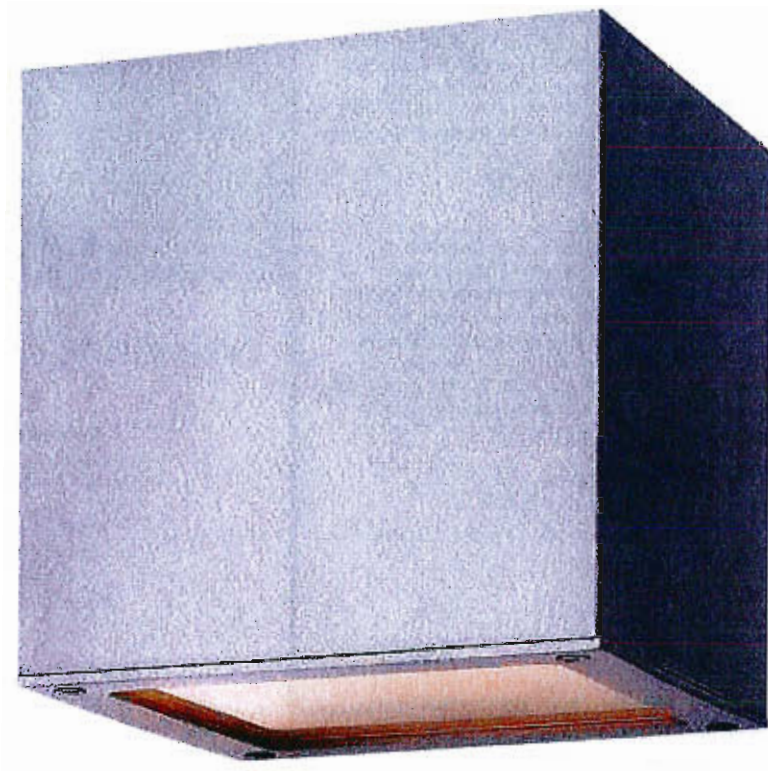
TTO: 3"

Extension: 6.75"

Back Plate Height: 4.5"

Back Plate Width: 4.5"

UPC: 640665176636



Notes



Notes section with horizontal lines for text entry.

DESCRIPTION

The patented Lumark Crosstour™ LED Wall Pack Series of luminaires provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks test.

Catalog #		Type	
Project			
Comments		Date	
Prepared by			

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial

light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

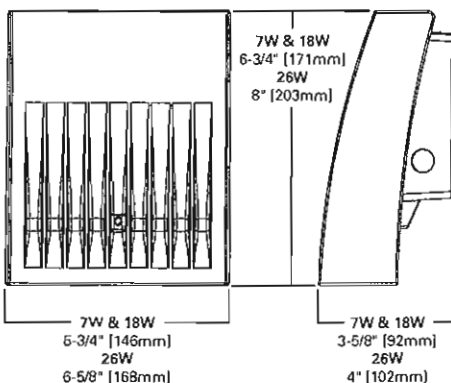
Five-year warranty.



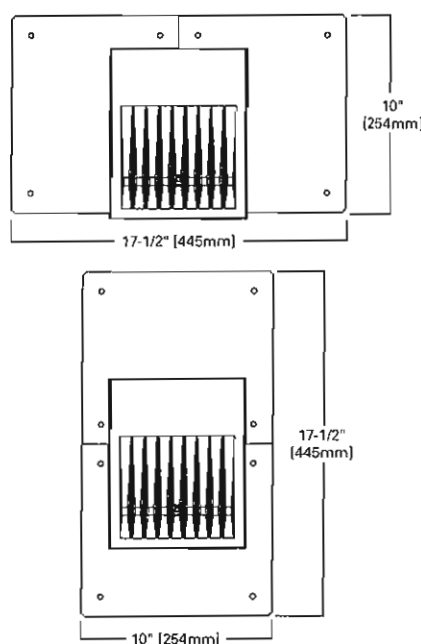
XTOR CROSSTOUR LED

- APPLICATIONS:**
 WALL / SURFACE
 POST / BOLLARD
 LOW LEVEL
 FLOODLIGHT
 INVERTED
 SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

- UL/cUL Wet Location Listed
- LM79 / LM80 Compliant
- ROHS Compliant
- AOA Compliant
- NOM Compliant Models
- IP66 Ingressed Protection Rated
- Title 24 Compliant
- DesignLights Consortium® Qualified*

TECHNICAL DATA

- 40°C Maximum Ambient Temperature
- External Supply Wiring 90°C Minimum

EPA

- Effective Projected Area (Sq. Ft.):
 XTOR1A/XTOR2A=0.34
 XTOR3A=0.45

SHIPPING DATA:

- Approximate Net Weight:
 3.7 - 5.25 lbs. [1.7 - 2.4 kgs.]

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1A Model		
25°C	> 92%	> 290,000
40°C	> 92%	> 290,000
50°C	> 91%	> 270,000
XTOR2A Model		
25°C	> 91%	> 270,000
40°C	> 90%	> 260,000
50°C	> 88%	> 225,000
XTOR3A Model		
25°C	> 91%	> 280,000
40°C	> 91%	> 270,000
50°C	> 89%	> 240,000

LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,604	2,284
Delivered Lumens (With Flood Accessory Kit) ¹	468	1,060	978	2,168	1,738
B.U.G. Rating ²	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	65	65	70	65	70
Power Consumption (Watts)	7W	18W	18W	26W	26W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

CURRENT DRAW

Voltage	Model Series		
	XTOR1A	XTOR2A	XTOR3A
120V	0.05A	0.15A	0.22A
208V	0.03A	0.08A	0.13A
240V	0.03A	0.07A	0.11A
277V	0.03A	0.06A	0.10A
347V	0.025A	0.068A	0.082A

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

Series ¹	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K ²	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V ³ PC2=Photocontrol 208-277V ^{3,4} 347V=347V ⁵ HA=50°C High Ambient ⁶	WG/XTOR=Wire Guard ⁶ XTORFLD-KNC=Knuckle Floodlight Kit ⁷ XTORFLD-TRN=Trunnion Floodlight Kit ⁷ XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White ⁷ XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White ⁷ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC



Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

MEGA LITE

Fixture XTGT

outshine
T54



USER MANUAL

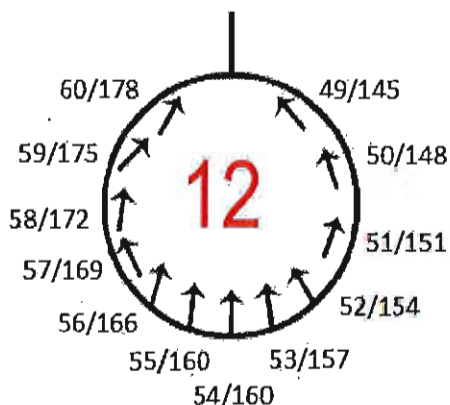
Table of Contents

Safety Information.....	3
Specifications.....	4
Main Power Connection.....	5
DMX-512 Connection.....	5
Main Control Menu.....	6
DMX Profile.....	8
Rigging the Fixture.....	9
Cleaning & Maintenance.....	9
Parts List.....	9

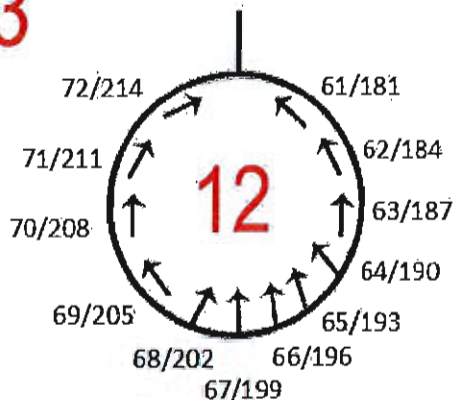
75 total XTGTs

Trench

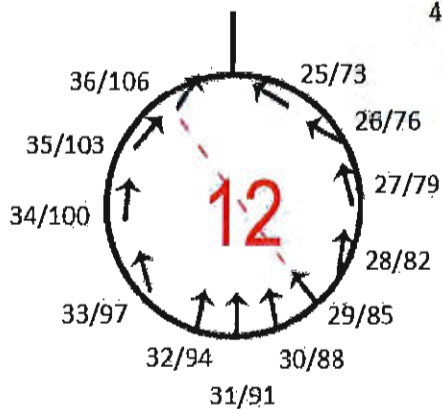
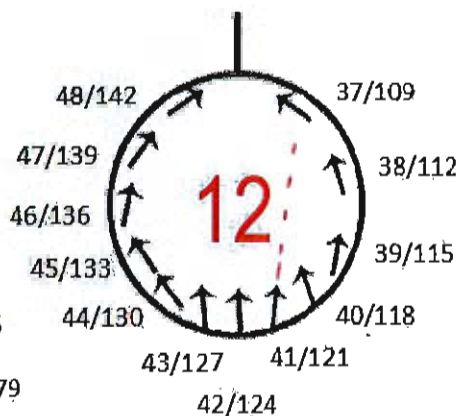
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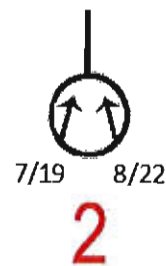
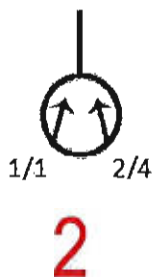
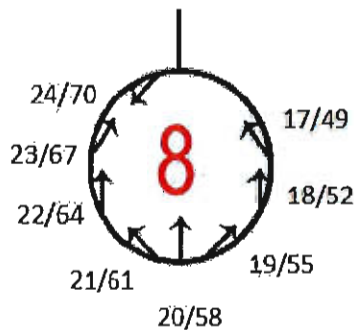
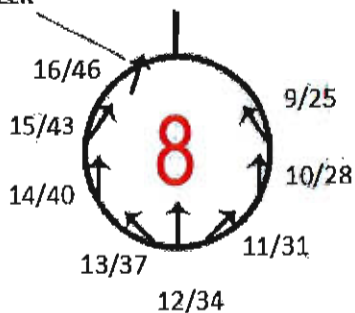
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74/220
3



↑
75/223



Points Up & to the Left



2 Teeline 2
Fixture #/DMX Address

Check that the unit has not been damaged during transport



Read all cautions and warnings
prior to operation of this
equipment

Protection Against Fire



Fire

1. Maintain a minimum of 1 foot distance from any type of flame.
3. Replace fuse only with the specified type and rating.
4. Do Not install the unit too close to a heat source.
5. Make sure cables are properly secured
6. Maximum surface operating temperature 140°.

Protection Against Electrical Shock



Electrical

1. Disconnect power before servicing.
2. For connection to main power supply proceed to page 5.
3. This unit must be earthed. (electronically grounded)
4. This unit is IP 65 rated (do not submerge unit into water)

Protection Against Mechanical Hazards



Mechanical

1. Use safety chain when hanging unit.
2. Use quality clamps or bolts when positioning unit
3. Do not open unit while it is on, risk of electrical shock.

Technical Information

Part Numbers

7221- Outline T54

Mechanical Specifications

DMX Connectors: Neutrik 3 pin XLR NC3FXX-HD-D and NC3MXX-HD-D
IP 67 connectors in and out

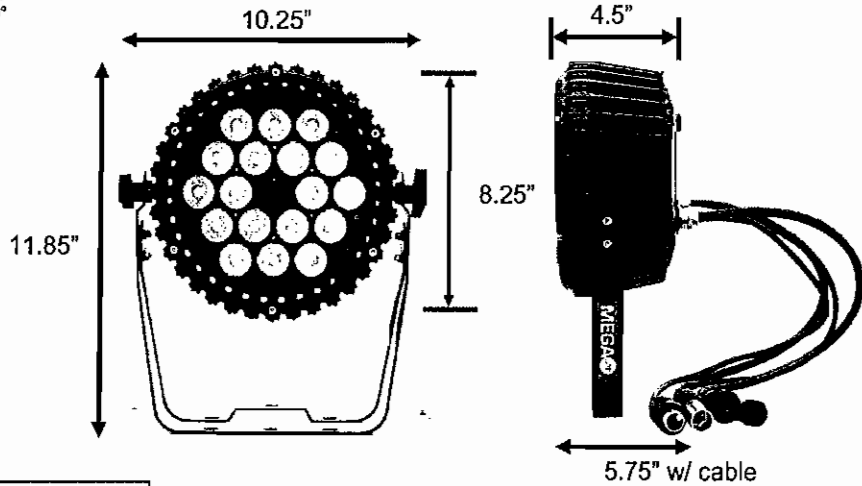
Power connection: Nema 5-15

Thermal: Maximum ambient temperature 104°
Maximum surface temperature 140°

Fastening System: Dual Yoke

Display: Digital

Lens Angle: 16°



Fixture	Packaging
Size: 10.25" x 11.85" x 5.75"	Size: 13.5" x 11.25" x 7.5"
Weight: 7lb	Weight: 8.75lb

Electrical Specifications

LED Quantity: 18 Tri Color LED's Red, Green, Blue

LED Watts: 3W

LED Lifetime: 40 to 80 thousand hours average

Refresh Rate: 6000 Hz

Power Input Voltage: 110V-240 50/60 Hz

Ballast: Electronic auto switching

Power Consumption: Watts: 57
Amps: .75

Control & Programming

Protocol: DMX 512

DMX Modes: Mode 3 Channels R,G,B
Mode 4 Channels Dimmer, R,G,B
Mode 6 Channels Dimmer, R,G,B, Strobe, Macro

Control Options: Display preset setting



Main Power Connection

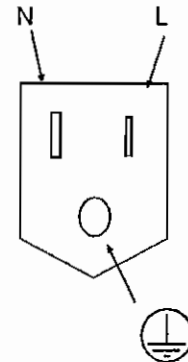
Caution!

1. Do not connect fixture to a dimmer system.
2. This unit has Auto switching power supply. It will respond to 110V or 220V automatically
3. This unit must be earthed. (electronically grounded)

The occupation of the connection-cable is as follows:

This fixture is equipped with an electronic power supply that will let the unit operate from 100V to 240V from 50Hz to 60Hz

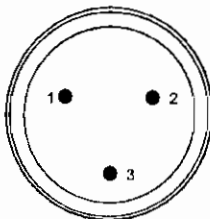
Cable (USA)	Cable (EU)	Pin	110V	220V
Black	Brown	Live	L	L
White	Light Blue	Neutral	N	L
Green	Yellow/Green	Ground		



DMX-512 Connection

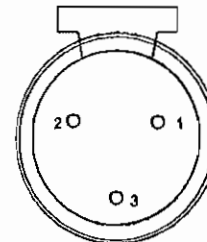
The fixture is equipped with Neutrik NC3FXX-HD and NC3MXX-HD IP 67 3 pin XLR Sockets for DMX input and output. The sockets are wired in parallel. Only use a shielded twisted pair cable designed for RS-485 and 3 pin XLR plugs and connectors in order to connect the controller with the fixture or the fixture with another.

DMX—input



DMX—output

1. Shield
2. Signal (-)
3. Signal (+)

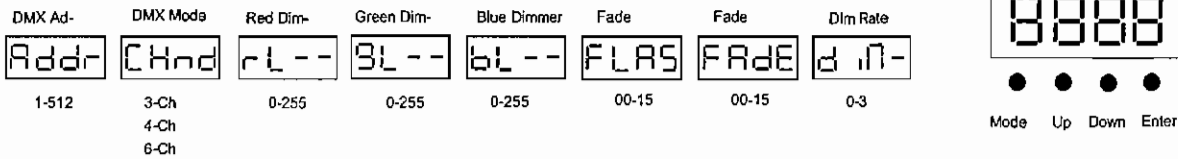


Caution!

At the last fixture the DMX signal needs to be terminated with a terminator. Solder a 120 Ohm resistor between the (-) and the (+) signal into a 3 pin XLR plug and plug it in to the last fixture on the signal run. Pre-manufactured terminator plugs are available for purchase from your Mega-Lite dealer (P-DMX-T).

Display Menu

CONTROL BOARD



Press **Mode** to select the display options

Addr DMX Address

Press **Enter** to select the DMX start channel use the **up/down** keys, display will be flashing once you have selected the desired start channel Press **Enter** to confirm display will stop flashing.

CHnd DMX Mode

This function allows you to select the mode in which you want to control the Arc 90. Press **Enter** use the **up/down** keys to select desired DMX mode settings. Press **Set Up** to confirm the settings.

3 CH	Red, Green, Blue
4 CH	Dimmer, Red, Green, Blue
6 CH	Dimmer, Red, Green, Blue, Strobe, Macro

rL-- Red Dimmer

This function allows you to dim up or down the red LED's . Press Enter use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

gL-- Green Dimmer

This function allows you to dim up or down the green LED's . Press Enter use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

bL-- Blue Dimmer

This function allows you to dim up or down the blue LED's . Press **Enter** use the **up/down** keys to select desired dimmer settings. Press **Set Up** to confirm the settings.

FLASH Flash

This function allows you to strobe the LED's. Press **Enter** use the **up/down** keys to select desired flash settings. Press **Enter** to confirm the settings.

FADE Fade Scroll

This function allows you to fade the LED's from one color to another. Press **Enter** use the **up/down** keys to select desired fade speed settings from 0 to 15. Press **Enter** to confirm the settings.

Dimming Speed

Press **Enter** to select the desired dimming speed. Use the **up/down** keys to select desired dimming fade speed settings from 0 to 3. Zero speed will be the fastest. Press **Enter** to confirm the settings.

Outshine T54 DMX Profile

3Ch

DMX Chanel	Function	Description	Value
1	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255

4Ch

DMX Chanel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Red LED intensity	0-255
2	LED Color	Green LED Intensity	0-255
3	LED Color	Blue LED Intensity	0-255

6Ch

DMX Chanel	Function	Description	Value
1	Dimmer	Dimmer Off to Full	0-255
2	LED Color	Red LED intensity	0-255
3	LED Color	Green LED Intensity	0-255
4	LED Color	Blue LED Intensity	0-255
5	Strobe	Strobe (slow to fast)	0-196
		Random Strobe (slow to fast)	197-255
6	Macro	No Function	0-1
		Color fade (slow to fast)	2-19
		Color Snap (slow to fast)	20-39
		Random (slow to fast)	40-59
		Yellow	60-79
		Purple	80-99
		Aqua	100-119
		Orange	120-139
		Red Pulse	140-159
		green Pulse	160-179
		Blue Pulse	180-199
		Yellow Pulse	200-219
		Aqua Pulse	220-229
		White Pulse	230-249
White LED Full	250-255		

Rigging the fixture

Caution!

1. The installations must be carried out by an authorized dealer or trained professional.
2. Unit may cause severe injuries if you have doubts concerning the safety do not install.
3. Unit is to be 24 inches away from flammable materials (decoration material)
4. Use high quality installation equipment to hang unit.

When rigging a unit it is very important that you follow common safety procedures. Rigging requires extensive experience including but not limited to calculating working loads, material being used and periodic safety inspections. If you lack these qualifications, do not attempt the installation yourself, instead use a professional structural rigger.

When rigging the unit always be secured with a secondary safety attachment. The installation location of the fixture has got to be built in the way that it can hold 10 times the weight for 1 hour with out any harming. Installation should be checked at least one time a year by a skilled person.

Cleaning and Maintenance

Installation Maintenance: The operator has to make sure that the unit is operating safely and has the installations and electronics checked by an expert every year.

The following points have to be considered during the inspection:

- 1) All screws used for installing the device or part of the device have to be tightly connected and must not be corroded.
- 2) There must not be any deformations on the housing, fixation and installation spots (ceiling, suspension, trussing).
- 3) The electronic power supply cables must not show any damages, material fatigue (e.g. porous cables) or sediments. Further instructions depending on the installation spot and usage have to be adhered by a skilled installer and any safety problems have to be removed.

Note: There is no serviceable parts inside the device except for the LED's. Maintenance and service operations are to be carried out by authorized dealers.

Replacing the fuse: Only replace the fuse with the same type and rating.

Replacing the power cable: If the power cable of this device becomes damaged, it has to be replaced by authorized dealers or trained professional only.

Should you have further questions , please contact your dealer.

Parts List

7221-LED	Replacement LED
7221-MPCB	Main PCB card
7221-PS	Power Supply
7221-DIS	Display
7221-LEDMOD	LED Module
7221-FG	Frontal Glass
7220-KN	Knob Set

Warranty Information

Warranty Conditions

-Unless otherwise stated in writing, your product is covered by a one year parts and labor limited warranty.

-LEDs are not guaranteed to match in color temperature or output.

-It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and reseller or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

-Goods returned under warranty must follow the proper authorization procedure and must be accompanied by a copy of the original invoice and Return Authorization Number given by MSI.

-Goods repaired under warranty will be returned to the owner with the freight prepaid by MSI via the most economical means of shipment.

-Repair or replacement as provided for under this warranty is the exclusive remedy of the consumer. MEGA SYSTEMS INC. makes no warranties, express or implied, with respect to any product, and Mega Systems specifically disclaims any warranty of merchantability or fitness for a particular purpose. Mega Systems shall not be liable for any indirect, incidental or consequential damage, including lost profit, sustained or incurred in connection with any product or caused by product defect or the partial or total failure of any product regardless of the form of action, whether in contract, tort (including negligence), strict liability or otherwise, and whether or not such damage was foreseen or unforeseen.

-Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

MEGATM

Mega-Lite
18668 Hwy 16 N.,
Helotes, TX 78023
Ph 210-684-2600 Fax 210-855-6279
www.mega-lite.com / info@mega-lite.com

SITE INFORMATION:

OWNER: = TOPGOLF USA CHESTERFIELD, LLC (OWNER UNDER CONTRACT)
 PROPOSED SITE AREA: = 14.75± ACRES
 EXISTING ZONING: = "PC" PLANNED COMMERCIAL (ORD. #2932)
 CITY: = CHESTERFIELD, MISSOURI
 SITE ZIP CODE: = 63005
 SITE ADDRESS INFO: = 16851, 16845 and 16839 NORTH OUTER 40 ROAD
 LOCATOR NO: 171510041 171520062 171520095 171520084
 WUNNENBERG'S = PGS. 20 AND 21
 FIRE DISTRICT: MONARCH FIRE PROTECTION DISTRICT
 SCHOOL DISTRICT: ROCKWOOD
 SEWER DISTRICT: METROPOLITAN ST. LOUIS SEWER DIST.
 WATER SHED: AMEREN RIVER
 FEMA MAP: 29189C0165K, FEB 4, 2015
 ELECTRIC COMPANY: AMEREN UE
 GAS COMPANY: LACLEDE GAS COMPANY
 PHONE COMPANY: AT&T
 WATER COMPANY: MISSOURI AMERICAN WATER COMPANY

FLOOD NOTE:

SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "AH" (FLOOD DEPTHS OF 1 TO 3 FEET) (USUALLY AREAS OF PONDING) BASE FLOOD ELEVATION DETERMINED (ELEVATION 457 & 456) ACCORDING TO THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR ST. LOUIS COUNTY, MISSOURI AND INCORPORATED AREAS. THE MAP IS IDENTIFIED AS MAP NO. 29189C0165K WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2015.

GENERAL NOTES

- BOUNDARY AND TOPOGRAPHIC SURVEY BY STOCK & ASSOCIATES CONSULTING ENGINEERS, INC.
- ALL UTILITIES SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
- NO GRADE SHALL EXCEED 3:1 SLOPE.
- GRADING AND STORM WATER PER M.S.D., MODOU, ST. LOUIS COUNTY, THE CITY OF CHESTERFIELD AND THE MONARCH CHESTERFIELD LEVEE DISTRICT.
- STORMWATER SHALL BE DISCHARGED AT ADEQUATE NATURAL DISCHARGE POINT. SINKHOLES ARE NOT ADEQUATE DISCHARGE POINTS.
- ALL UTILITIES WILL BE INSTALLED UNDERGROUND.
- SITE DEVELOPMENT SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL EXPLORATION PREPARED BY MIDWEST TESTING (JOB NO. 13864) DATED MAY 5, 2016.
- THERE IS A MINIMUM OPEN SPACE OF 35% AS REQUIRED BY THE PC DISTRICT REGULATIONS.
- THERE IS A MAXIMUM F.A.R. OF 0.55 AS REQUIRED BY THE PC DISTRICT REGULATIONS.

TOPGOLF
SITE DEVELOPMENT SECTION PLAN

A TRACT OF LAND AS CONVEYED TO SUMMIT ICE CENTER INVESTORS, L.L.C., BY INSTRUMENT RECORDED IN BOOK 14790, PAGE 648 AND LOTS A AND B OF VALLEY GATES, A SUBDIVISION ACCORDING TO THE PLAT THEREOF AS RECORDED IN PLAT BOOK 356, PAGE 688 BOTH OF THE ST. LOUIS COUNTY RECORDS, LOCATED IN U.S. SURVEY 2031, TOWNSHIP 45 NORTH, RANGE 4 EAST OF THE FIFTH PRINCIPAL MERIDIAN, CITY OF CHESTERFIELD, ST. LOUIS COUNTY, MISSOURI

PARKING

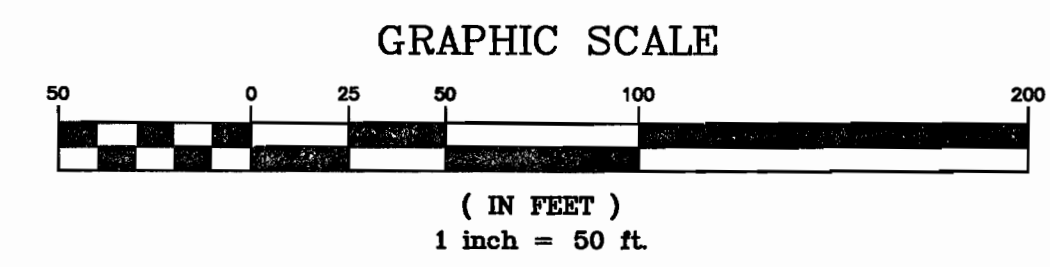
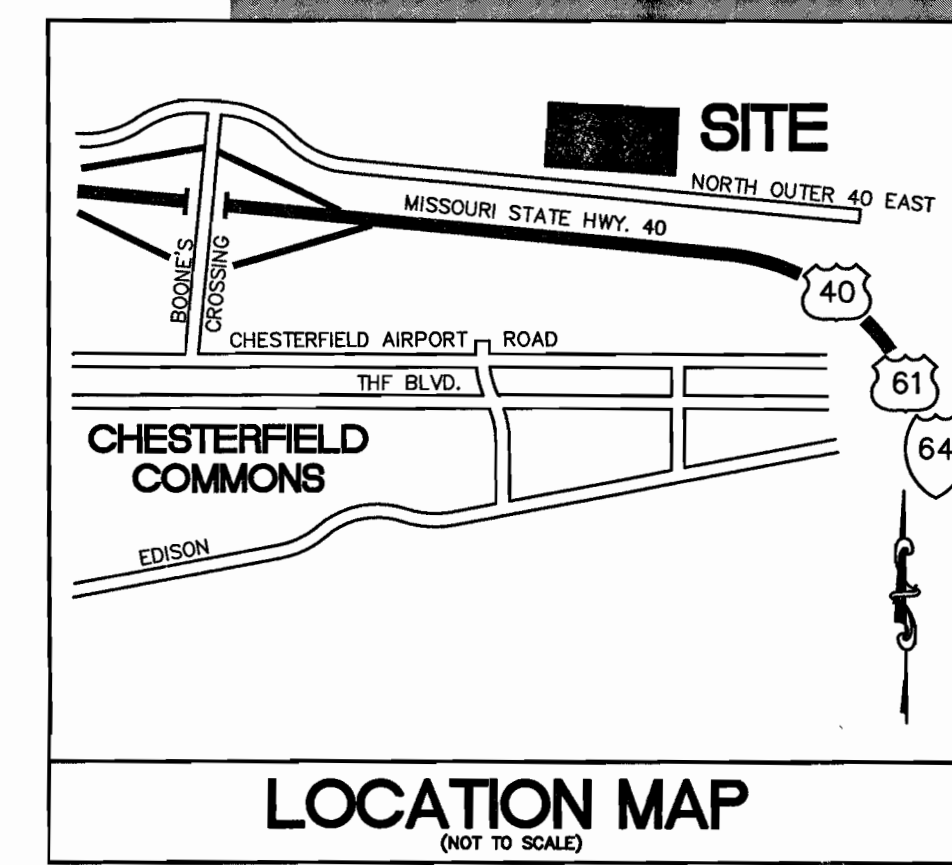
REQUIRED: GOLF FACILITY W/102 BAYS = 4.0/BAY (MIN), 5.0/BAY (MAX)
 MINIMUM: 102 X 4 = 408 SPACES
 MAXIMUM: 102 X 5 = 510 SPACES
 TOTAL PROVIDED = 495 SPACES

F.A.R. CALCULATION

REQUIRED: 35.0% PER PC DISTRICT REGULATION
 PROVIDED: 68.4% (439,244 SF/642,276 SF)
 F.A.R. = 66,300 S.F. / 642,276 S.F. = 0.10

BUILDING AND PARKING SETBACKS

NORTH: 30' BUILDING AND 30' PARKING SETBACK
 EAST: 5' BUILDING AND 0' PARKING SETBACK
 SOUTH: 75' BUILDING AND 0' PARKING SETBACK
 WEST: 5' BUILDING AND 0' PARKING SETBACK



ABBREVIATIONS

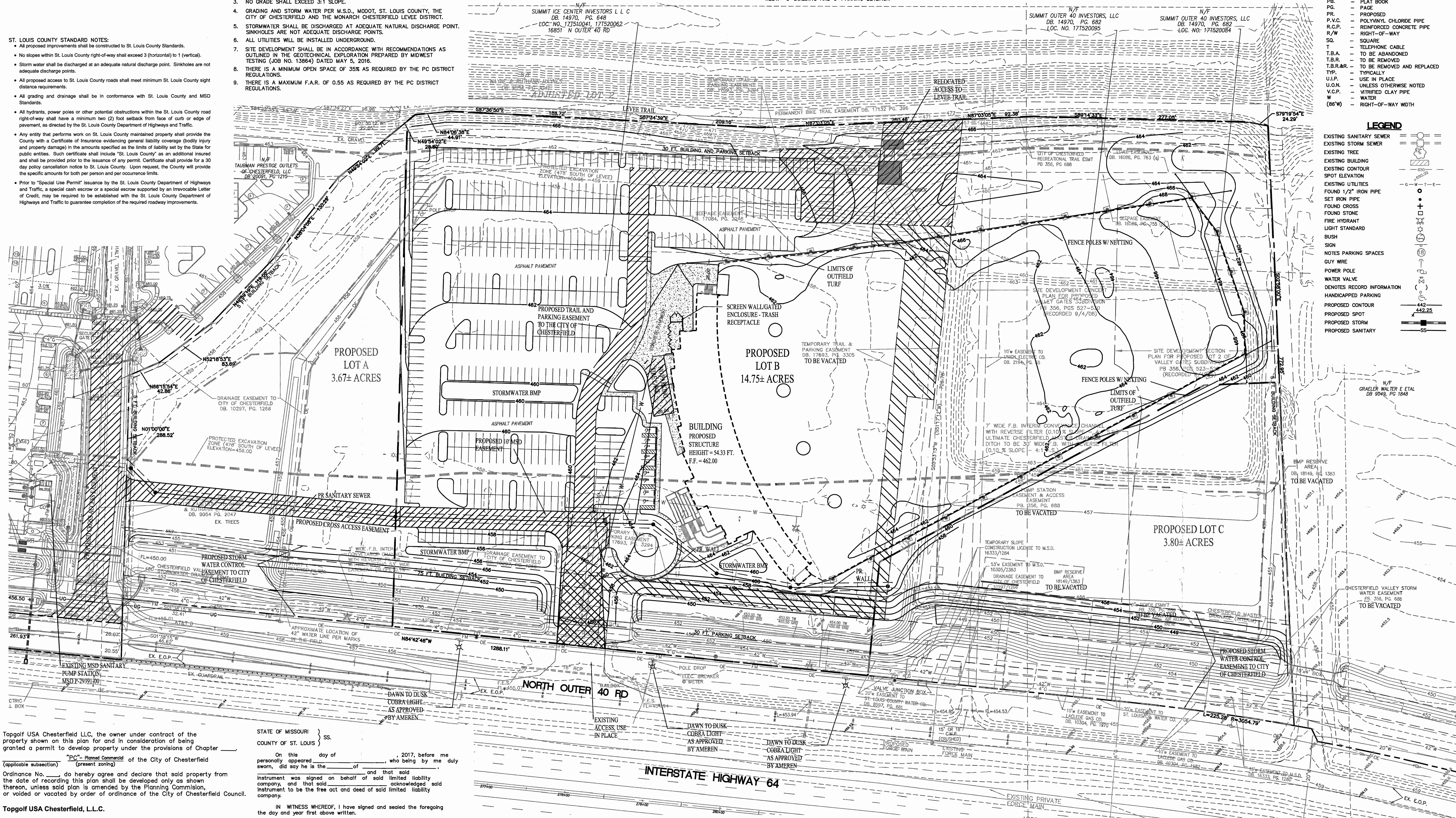
- ATG - ADJUST TO GRADE
- B.C. - BACK OF CURB
- C.O. - CLEANOUT
- DB. - DEED BOOK
- E. - ELECTRIC
- ELEV. - ELEVATION
- EX. - EXISTING
- F.C. - FACE OF CURB
- FL. - FLOWLINE
- FT. - FEET
- FND. - FOUND
- G. - GAS
- H.W. - HIGH WATER
- LFB - LOW FLOW BLOCKED
- M.H. - MANHOLE
- N/F - NOW OR FORMERLY
- PL. - PLAT BOOK
- PG. - PAGE
- PR. - PROPOSED
- P.V.C. - POLYVINYL CHLORIDE PIPE
- R.C.P. - REINFORCED CONCRETE PIPE
- R/W - RIGHT-OF-WAY
- SO. - SQUARE
- T. - TELEPHONE CABLE
- T.B.A. - TO BE ABANDONED
- T.B.R. - TO BE REMOVED
- T.B.R.R. - TO BE REMOVED AND REPLACED
- TYP. - TYPICALLY
- U.I.P. - USE IN PLACE
- U.G.A. - UNLESS OTHERWISE NOTED
- V.C.P. - VITRIFIED CLAY PIPE
- W. - WATER
- (86'W) - RIGHT-OF-WAY WIDTH

LEGEND

- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TREE
- EXISTING BUILDING
- EXISTING CONTOUR
- SPOT ELEVATION
- EXISTING UTILITIES
- FOUND 1/2" IRON PIPE
- SET IRON PIPE
- FOUND CROSS
- FOUND STONE
- FIRE HYDRANT
- LIGHT STANDARD
- BUSH
- SIGN
- NOTES PARKING SPACES
- GUY WIRE
- POWER VALVE
- WATER VALVE
- DENOTES RECORD INFORMATION
- HANDICAPPED PARKING
- PROPOSED CONTOUR
- PROPOSED SPOT
- PROPOSED STORM
- PROPOSED SANITARY

ST. LOUIS COUNTY STANDARD NOTES:

- All proposed improvements shall be constructed to St. Louis County Standards.
- No slopes within St. Louis County right-of-way shall exceed 3 (horizontal) to 1 (vertical).
- Storm water shall be discharged at an adequate natural discharge point. Sinkholes are not adequate discharge points.
- All proposed access to St. Louis County roads shall meet minimum St. Louis County sight distance requirements.
- All grading and drainage shall be in conformance with St. Louis County and MSD Standards.
- All hydrants, power poles or other potential obstructions within the St. Louis County road right-of-way shall have a minimum two (2) foot setback from face of curb or edge of pavement, as directed by the St. Louis County Department of Highways and Traffic.
- Any entity that performs work on St. Louis County maintained property shall provide the County with a Certificate of Insurance evidencing general liability coverage (bodily injury and property damage) in the amounts specified as the limits of liability set by the State for public entities. Such certificate shall include "St. Louis County" as an additional insured and shall be provided prior to the issuance of any permit. Certificate shall provide for a 30 day policy cancellation notice to St. Louis County. Upon request, the County will provide the specific amounts for both per person and per occurrence limits.
- Prior to "Special Use Permit" issuance by the St. Louis County Department of Highways and Traffic, a special cash escrow or a special escrow supported by an irrevocable Letter of Credit, may be required to be established with the St. Louis County Department of Highways and Traffic to guarantee completion of the required roadway improvements.



Topgolf USA Chesterfield LLC, the owner under contract of the property shown on this plan for and in consideration of being granted a permit to develop property under the provisions of Chapter 11.020, "Planned Commercial" of the City of Chesterfield (present zoning) do hereby agree and declare that said property from the date of recording this plan shall be developed only as shown thereon, unless said plan is amended by the Planning Commission, or voided or vacated by order of ordinance of the City of Chesterfield Council.

STATE OF MISSOURI }
 COUNTY OF ST. LOUIS } ss.
 On this day of _____, 2017, before me duly sworn, did say he is the _____, who being by me duly sworn, was signed on behalf of said limited liability company, and that said _____ acknowledged said instrument to be the free act and deed of said limited liability company.

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

 Notary Public
 Print Name
 My commission expires: _____

SURVEYOR'S CERTIFICATION

This is to certify that Stock and Associates Consulting Engineers, Inc. has prepared this Site Development Section Plan from a field survey and does not represent a property boundary survey. The information shown is a correct representation of all existing and proposed land divisions.
 STOCK AND ASSOCIATES CONSULTING ENGINEERS INC.
 L.S. No. 222-D
 Daniel Ehlmann, Missouri L.S. No. 2215

This Site Development Section Plan was approved by the City of Chesterfield Planning Commission and duly verified on the day of _____, 2017, by the Chairperson of said Commission, authorizing the recording of this Amended Site Development Section Plan pursuant to Chesterfield Ordinance No. 200, as amended, by the Planning and Development Services Director and the City Clerk.
 By: Justin Wyse, Director of Planning and Development Services
 By: Vickie Hass, City Clerk

GEOTECHNICAL ENGINEER'S STATEMENT

Midwest Testing, at the request of Topgolf USA Chesterfield, LLC, has performed a geotechnical exploration for the property of which the project proposed hereon is a part thereof. Our findings indicated that the earth related aspects are suitable for the development proposed hereon pursuant to the geotechnical recommendations and considerations set forth in our xxxxxxxx report, titled "Geotechnical Exploration - MT Job No. xxxxxx - Topgolf - Chesterfield, Missouri".
 Midwest Testing
 Name _____ Date _____

#12-166
 ELEV.=458.86

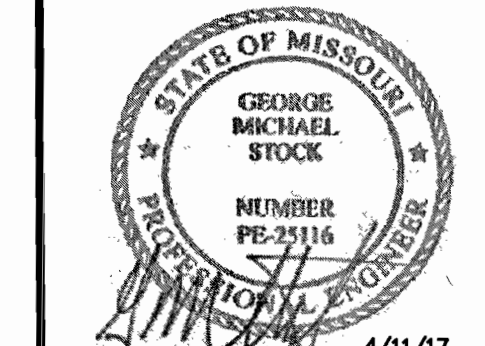
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PREPARED FOR:

TOPGOLF USA
CHESTERFIELD, LLC
 8750 N. CENTRAL EXPRESSWAY
 SUITE 1200
 DALLAS, TEXAS 75231

PREPARED BY:

SITE DEVELOPMENT SECTION PLAN FOR:



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

REVISIONS:

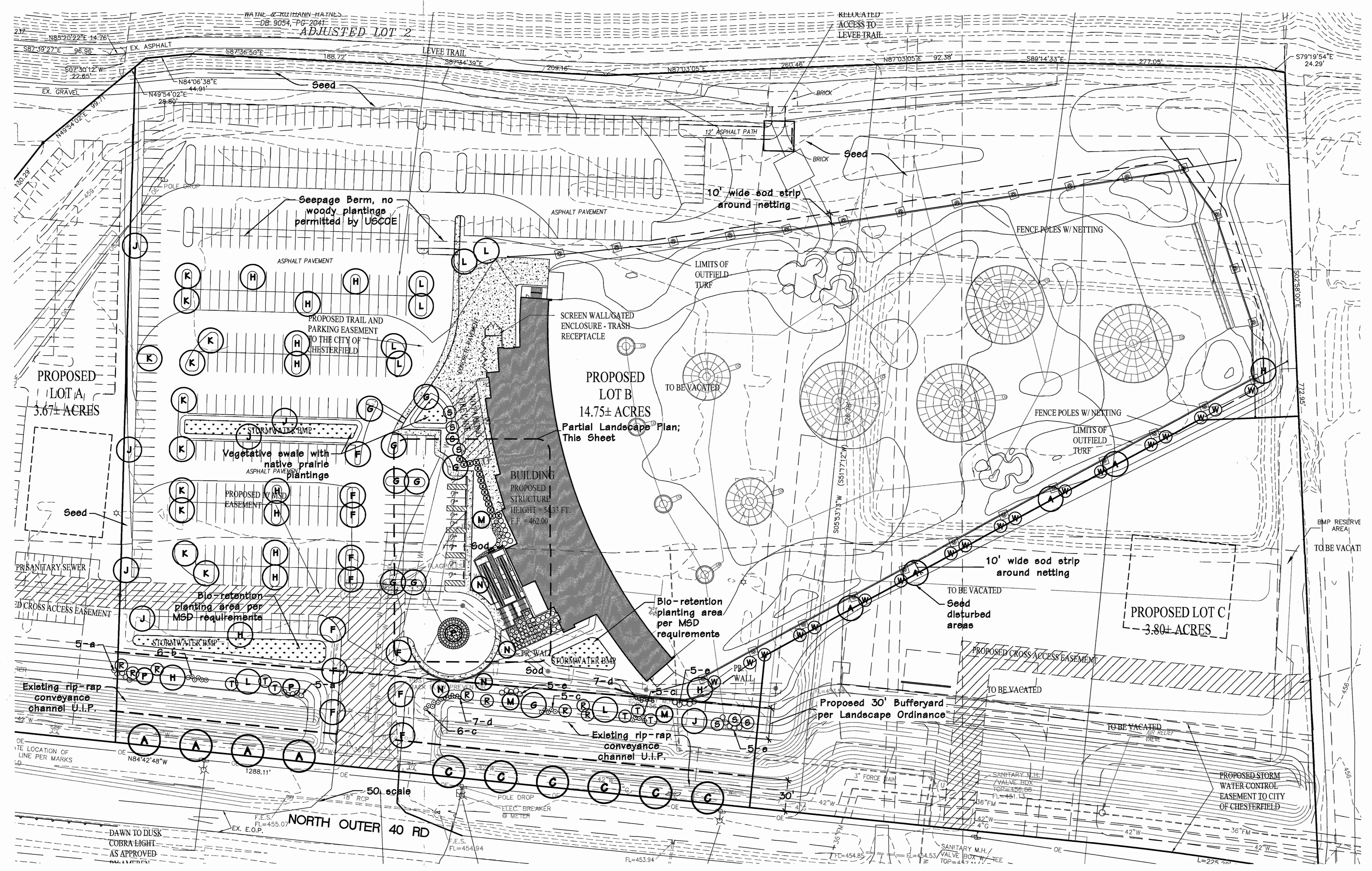
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2	2/24/17	LETTER DATED
3	3/17/17	REV PER FPD
4	1/31/17	LETTER DATED
5	4/11/17	REV PER CITY
6	3/30/17	LETTER DATED

DATE	1/18/17	DATE	12-2013
SCALE	AS SHOWN	SCALE	171
DATE		DATE	

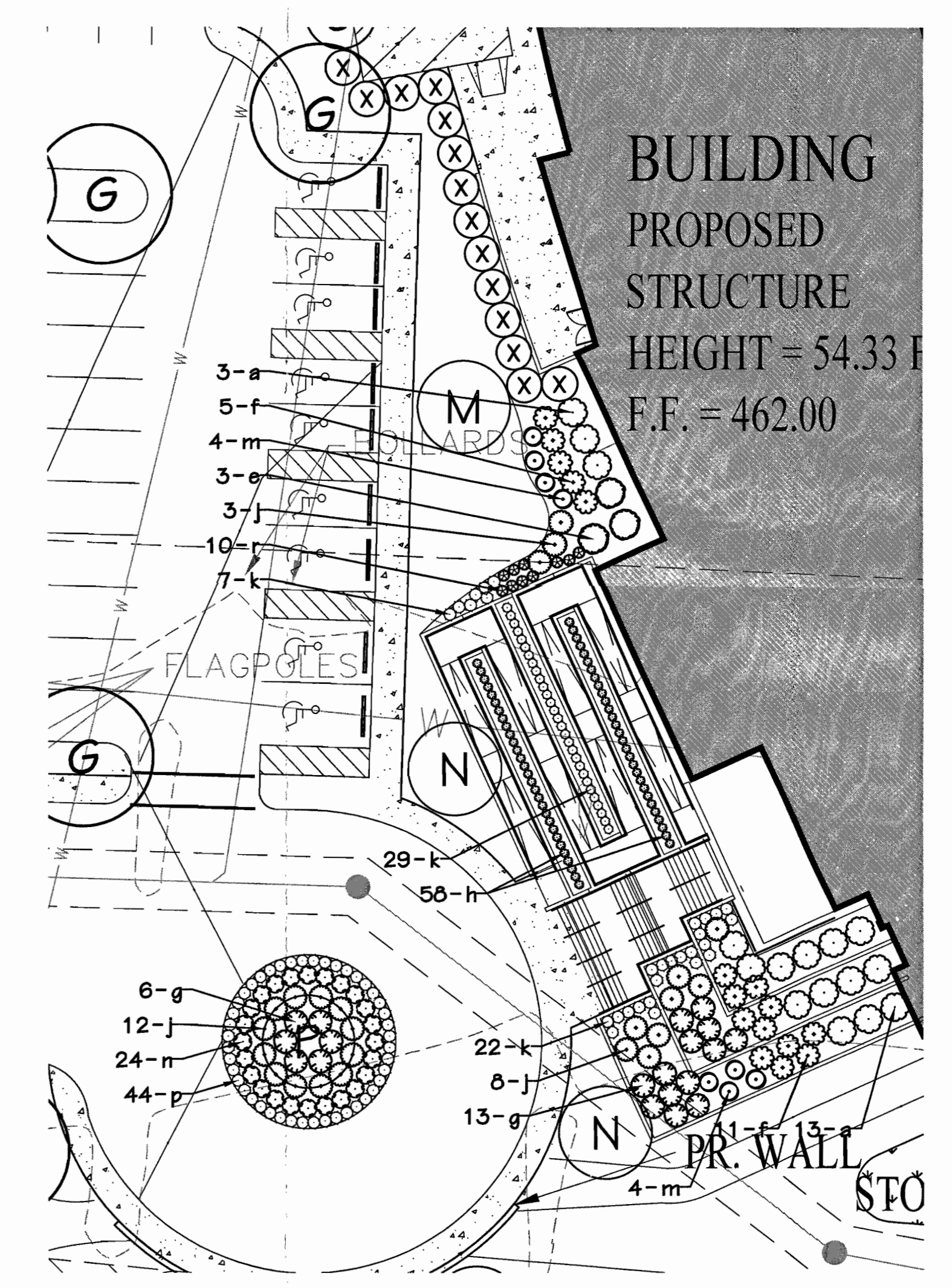
SHEET TITLE:
 SITE DEVELOPMENT SECTION PLAN
 SHEET NO.:
C1.0

257 Chesterfield Business Parkway
 St. Louis, MO 63105
 PH: (636) 538-9100
 FAX: (636) 538-9100
 e-mail: gstock@stockandassociates.com
 Web: www.stockandassociates.com

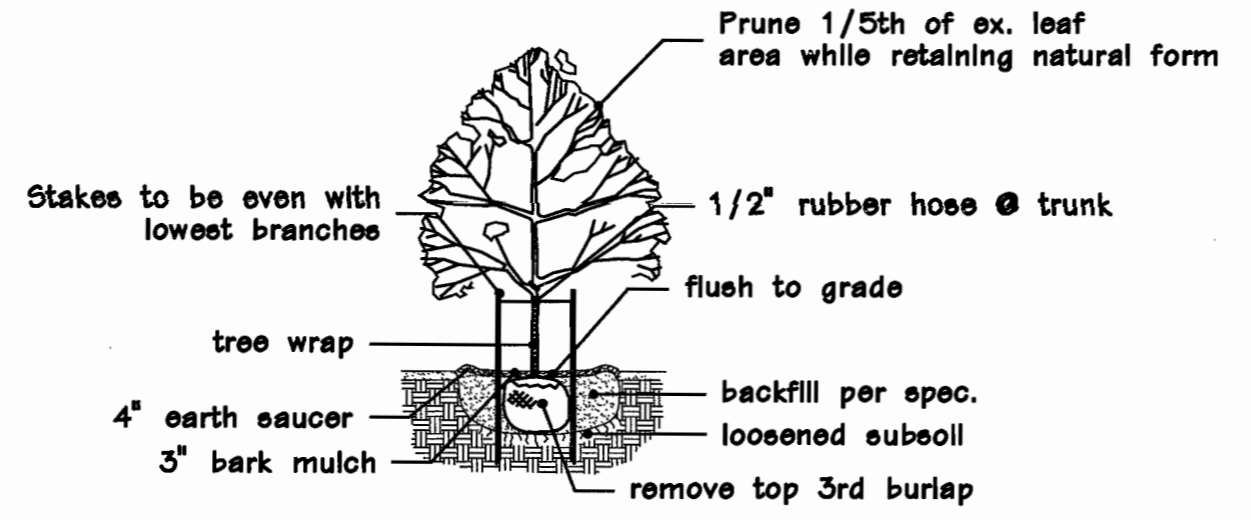
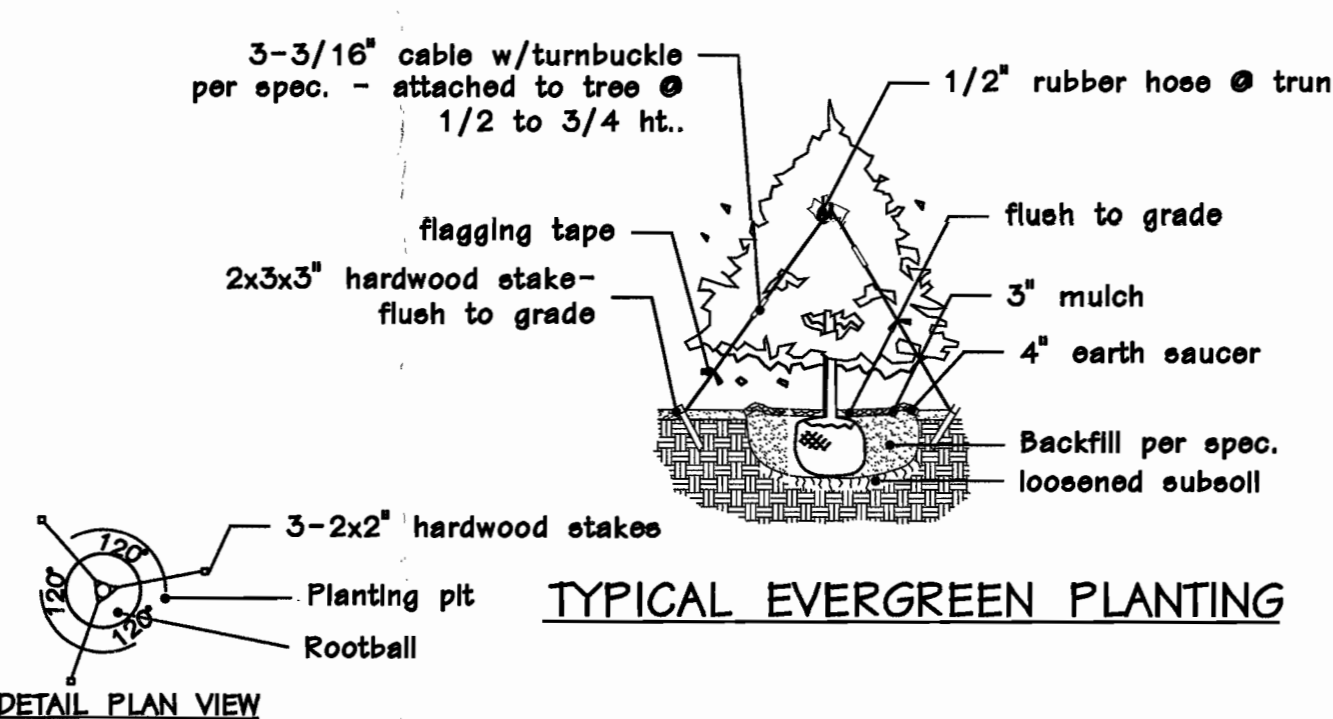
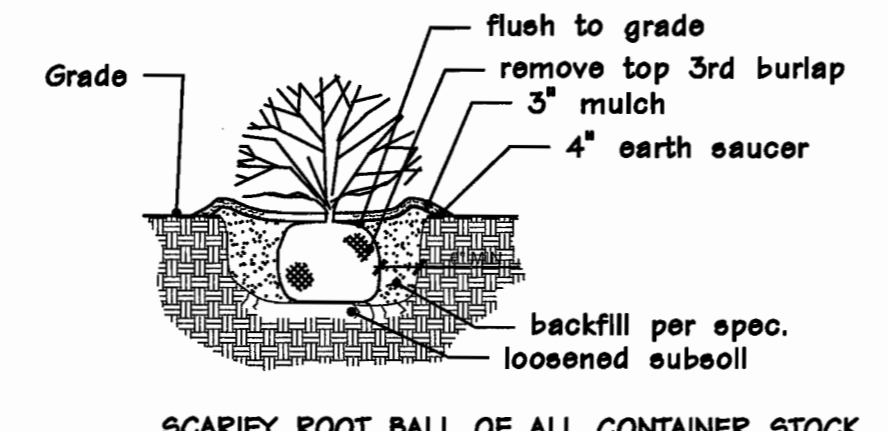
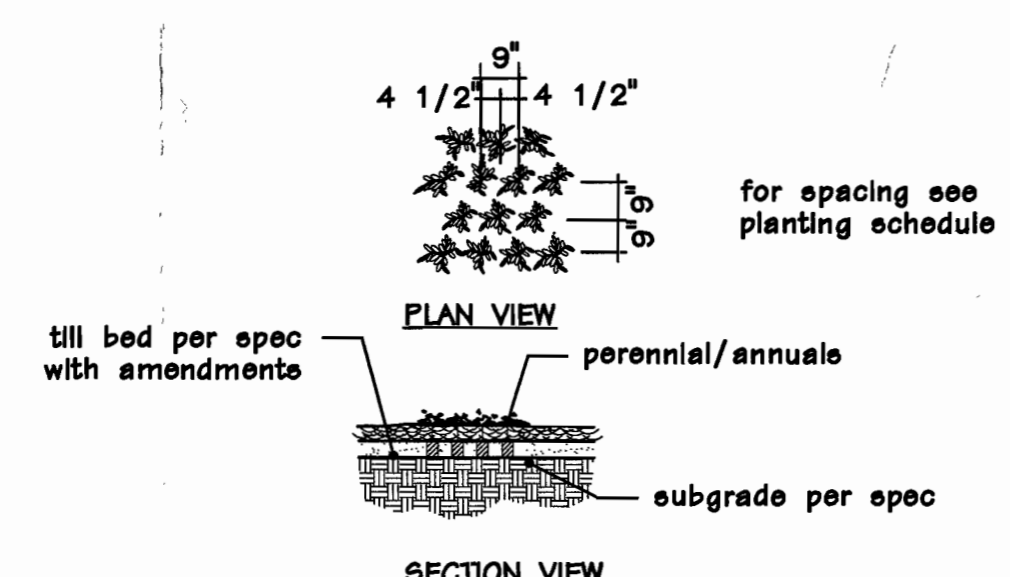
TOPGOLF
 CITY OF CHESTERFIELD
 ST. LOUIS COUNTY, MISSOURI



LANDSCAPE PLAN
 SCALE 1" = 50'
 0 50 100 200



PARTIAL LANDSCAPE PLAN
 SCALE 1" = 20'
 0 20 40 60



PLANTING SCHEDULE						
TREES						
SYMBOL	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	SIZE CLASS TYPE	GROWTH RATE / MATURE SIZE
A	6	<i>Carpinus betula</i>	European Hornbeam	2.5" cal.	Medium;Canopy	Slow/Medium 35-40'
C	6	<i>Quercus acuticeps</i>	Sawtooth Oak	2.5" cal.	Large;Canopy	Medium 45'+
F	11	<i>Zelkova serrata</i> 'Green Vase'	Green Vase Zelkova	2.5" cal.	Large;Canopy	Fast 45'+
G	9	<i>Gleditsia tricanthos</i> 'Shademaster'	Shademaster Honeylocust	2.5" cal.	Large;Canopy	Fast 45'+
H	13	<i>Acer x Freemanii</i> 'Armstrong'	Armstrong Maple	2.5" cal.	Large;Canopy	Fast 45'+
J	7	<i>Taxodium distichum</i> 'Mickelson'	Shawnee Brave Bald Cypress	2.5" cal.	Large;Canopy	Medium/Fast 45'+
K	11	<i>Quercus rubra</i>	Red Oak	2.5" cal.	Large;Canopy	Medium/Fast 45'+
L	6	<i>Quercus bicolor</i>	Swamp White Oak	2.5" cal.	Large;Canopy	Medium 45'+
M	3	<i>Cornus florida</i> f. rubra	Pink Flowering Dogwood	2.5" cal.	Small;Ornamental	Slow/Medium 15-25'
N	4	<i>Amelanchier grandiflora</i> 'Autumn Brilliance'	Autumn Brilliance Serviceberry	2.5" cal.	Medium;Ornamental	Slow/Medium 25-30'
P	3	<i>Cercis canadensis</i> var. texensis 'Oklahoma'	Texas Redbud	2.5" cal.	Medium;Ornamental	Fast 25-30'
R	6	<i>Picea glauca</i>	White Spruce	6" h.	Medium;Evergreen	Medium/Fast 30-40'
S	7	<i>Picea abies</i>	Norway Spruce	6" h.	Med/Large;Evergreen	Medium/Fast 40-60'
T	6	<i>Pinus strobus</i>	White Pine	6" h.	Large;Evergreen	Fast 45'+
W	16	<i>Thuja 'Green Giant'</i>	Green Giant Arborvitae	6" h.	Large;Evergreen	Fast 40-60'
X	14	<i>Juniperus chinensis</i> 'Keteleeri'	Keteleeri Juniper	6" h.	Small;Evergreen	Fast 15-20'
SHRUBS						
a	26	<i>Ilex glabra</i>	Inkberry	3 gal.		
b	6	<i>Syringa meyeri</i> 'Pallidin'	Korean Lilac	3 gal.		
c	16	<i>Spiraea japonica</i> 'Anthony Waterer'	Anthony Waterer Spiraea	3 gal.		
d	14	<i>Juniperus x pfitzeriana</i> 'Sea Green'	Sea Green Juniper	3 gal.		
e	18	<i>Viburnum x rhytidophyllum</i>	Leatherleaf Viburnum	3 gal.		
f	21	<i>Clethra alnifolia</i> 'Hummingbird'	Hummingbird Clethra	3 gal.		
g	19	<i>Thuja occidentalis</i> 'Het'z Midget'	Hetz Midget Arborvitae	3 gal.		
h	56	<i>Thuja occidentalis</i> 'Tiny Tim'	Tiny Tim Arborvitae	1 gal.		
j	23	<i>Spiraea nipponica</i> 'Snowmound'	Snowmound Spiraea	3 gal.		
k	56	<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Fountain Grass	1 gal.		
m	6	<i>Caryopteris x clandonensis</i> 'Longwood Blue'	Longwood Blue Bluebeard	1 gal.		
n	24	<i>Leucanthemum x superbum</i> 'Switzerland'	Switzerland Shasta Daisy	2 qt.		
p	44	<i>Pennisetum alopecuroides</i> 'Little Bunny'	Little Bunny Fountain Grass	2 qt.		
r	10	<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Karl Foerster Feather Reed Grass	1 gal.		

NOTE:
 All new landscape shall be irrigated with an automatic underground sprinkler system per the City of Chesterfield Unified Code Section 04-02.

TOP GOLF
 Chesterfield, Missouri

Revisions:

Date	Description	No.
3/1/17	City Comments	1
3/8/17	City Comments	2
4/21/17	City Comments	3

Drawn: LH
 Checked: JG

loomisAssociates
 landscapearchitects/planners
 6005 N. Grand Blvd., Suite 100
 St. Louis, MO 63108
 314.433.8888
 www.loomisassociates.com

Sheet Title: **Section Landscape Plan**
 Sheet No: **L-1**
 Date: 01/16/17
 Job #: 976.001