|--|

AN ORDINANCE OF THE CITY OF PFLUGERVILLE, TEXAS AMENDING ORDINANCE NO. 874-07-04-10 OF THE CITY OF PFLUGERVILLE, TEXAS, AS AMENDED, BY APPROVING A SPECIFIC USE PERMIT FOR ATHLETIC FIELD LIGHTING ON PROPERTY WITH A LEGAL DESCRIPTION OF 10.52 ACRES OF THE JOHN VAN WINKLE SURVEY NO. 14, ABSTRACT 786 AND THE E. BEBEE SURVEY NO. 5, ABSTRACT 53, LOCATED BETWEEN BLACK LOCUST DR. AND PFLUGERVILLE PKWY LOCALLY KNOWN AS THE HILL COUNTRY BIBLE CHURCH AT 303 E. PFLUGERVILLE PKWY; TO BE KNOWN AS THE HCBC-ATHLETIC FIELD LIGHTING SPECIFIC USE PERMIT (SUP1102-01).

WHEREAS, under the authority of Texas Local Government Code Chapter 211, the City of Pflugerville adopts regulations and establishes zoning to control the use of land within the corporate limits of the City; and

WHEREAS, the City Council approved Ordinance No. 1060-10-11-23, a text amendment to Chapter 157 Unified Development Code to allow Athletic Field Lighting to be considered with conditions through a Specific Use Permit; and

WHEREAS, an application was made for a Specific Use Permit in accordance with Subchapter 3 Procedures of Chapter 157 Unified Development Code; and

WHEREAS, the Planning and Zoning Commission held a public hearing and unanimously recommended approval to the City Council a Specific Use Permit for Athletic Field Lighting on property depicted in Exhibit A with the following conditions:

- 1. Only six (6) poles shall be installed as shown on the proposed site plan, equipment layout and illumination summary included with the application. (Exhibit B)
- 2. The proposed lighting shall be as provided in the application and subject to the conditions defined in the Unified Development Code. (Exhibit B)
- 3. The luminaries shall be allowed to be upgraded to a more efficient luminaire, provided the light levels do not exceed what is proposed in the illumination summary for horizontal footcandles at the property line and remain compliant with the conditions defined in the Unified Development Code.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF PFLUGERVILLE, TEXAS:

The City Council finds:

THAT, the zoning amendment is in accordance with the City's Comprehensive Plan for the purpose of promoting the health, safety, morals and general welfare of the City, and is in accordance with the following purposes 1)lessen congestion in the street; 2) secure safety from

fire, panic and other dangers; 3) promote the general health and welfare; 4) provide adequate air
and light; 5) prevent undue overcrowding of land; 6) avoid undue concentration of population 7)
facilitate the adequate provision of transportation, water, sewer, schools, parks and other public
requirements.

Section 1: That the Official Zoning Map of the City of Pflugerville, Texas adopted in Ordinance No. 874-07-04-10 as amended, shall apply the Specific Use Permit in combination with the existing zoning district of Retail (R) to the property depicted in Exhibit A, a 10.52 acre of land between Black Locust and Pflugerville Pkwy and locally known as 303 E. Pflugerville Pkwy.

The property depicted in <u>Exhibit A</u> may be used in accordance with the conditions established by this Specific Use Permit, and other applicable ordinances of the City of Pflugerville, Texas.

Section 2.

That this ordinance will become effective on its adoption and passage by

the City Council.	
PASSED AND APPROVED this	day of, 2011.
	CITY OF PFLUGERVILLE, TEXAS
	by: JEFF COLEMAN, Mayor
ATTEST:	
KAREN THOMPSON, City Secretary	
APPROVED AS TO FORM:	
FLOYD AKERS, City Attorney	

EXHIBIT A

HILL COUNTRY BIBLE CHURCH: 10.52 ACRES OF THE JOHN VAN WINKLE SURVEY NO. 14, ABSTRACT 786 AND THE E. BEBEE SURVEY NO. 5, ABSTRACT 53, LOCATED BETWEEN BLACK LOCUST DR. AND PFLUGERVILLE PKWY LOCALLY KNOWN AS 303 E. PFLUGERVILLE PKWY.

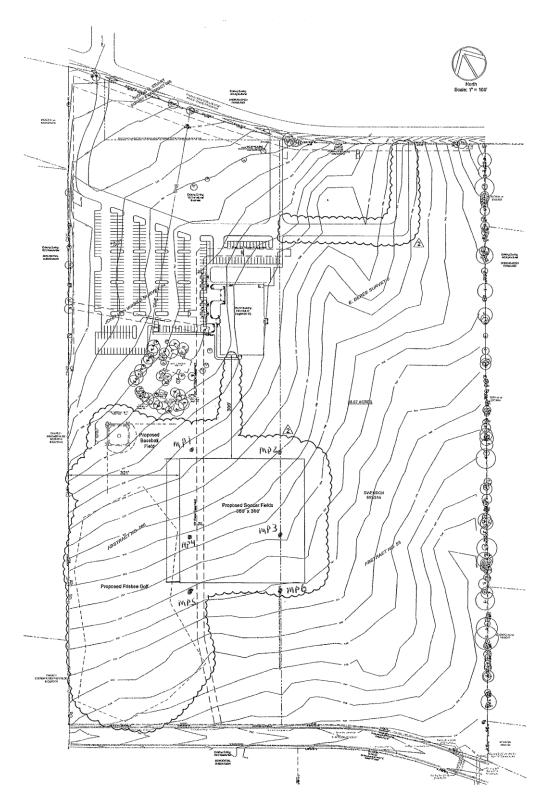
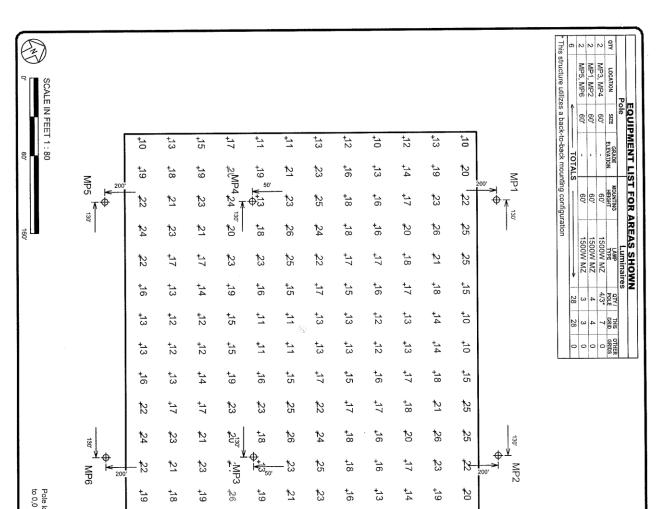


EXHIBIT B





ILLUMINATION SUMMARY

Multi-Purpose

Pflugerville,TX Pflugerville Hill Country Bible Soccer

Multi-Purpose Size: 400' x 360'

- Values given at 3.0' above grade Grid Spacing = 30.0' x 30.0'

Rated Lamp Life: Luminaire Type: 5,000 hours 134,000 Green Generation

Avg Lumens/Lamp: CONSTANT ILLUMINATION

HORIZONTAL FOOTCANDLES Entire Grid

No. of Target Points:
Average:
Maximum:
Minimum:
Avg/Min:
Avg/Min:
Max/Min: Average Lamp Tilt Factor: Number of Luminaires: Avg KW over 5,000: UG (Adjacent Pts) CV 168 17.45 26 10 1.83 2.73 2.07 0.26 28 43.79 47.6 1.000

Guaranteed Performance: The CONSTANT

Field Measurements: Averages shall be +/-10% in life of the lamp. ILLUMINATION described above is guaranteed for the rated

accordance with IESNA RP-6-01 and CIBSE LG4. Individual

Draw Chart and/or the "Musco Control System Summary" Electrical System Requirements: Refer to Amperage measurements may vary from computer predictions.

located within 3 feet (1m) of design locations. nominal voltage at line side of the ballast and structures Installation Requirements: Results assume +/- 3%

By: Brad Hannon

File #: 146986R1

Pole location(s) \oplus dimensions are relative Not to be reproduced in whole or part without the written to 0.0 reference point(s) \otimes consent of Musco Lighting. @1881, 2010 Musco Lighting Date: 21-Dec-10

	-	CUIT	STZ-	OI FUR A	EQUIPMENT LIST FOR AREAS SHOWN			
	Pole	ē			Luminaires			
QTY	LOCATION	SIZE	GRADE	HEIGHT	TYPE	POLE	GRID	GRIDS
+	MP3, MP4	60'		60'	1500W MZ	4/3*	7	0
٥ <u>ا</u>	MP1 MP2	60	-	60,	1500W MZ	4	4	0
S C	MP5 MP6	60		60'	1500W MZ	ω	ω	0
0 1			- TOTALS	S	-	28	28	0
This struc	cture utilize	s a back	-to-back mou	This structure utilizes a back-to-back mounting configuration	ation			

EQUIPMENT LIST FOR AREAS SHOWN Luminaires Luminair
UIPMENT LIST FOR AREAS SHOWN INTERIOR MOUNTING LAWP
THS GRID 7 4 4 28
OTHER GRIDS O

⊕ MP5	MP4	+
ф МР6	• • MP3	+

200 d 200 d



ILLUMINATION SUMMARY

GUARANTEED PERFORMANCE

Spill Scan

Pflugerville Hill Country Bible Soccer Pflugerville,TX

- Spill Scan
 Grid Spacing = 30.0'
- Values given at 3.0' above grade
- Luminaire Type: Green Generation 5,000 hours
- Rated Lamp Life:
- Avg Lumens/Lamp: CONSTANT ILLUMINATION

HORIZONTAL FOOTCANDLES

MP1

MP2

No. of Target Points: 32

No. of Target Points: 0.0261

Average: 0.024

Maximum: 0.04

Minimum: 0.01

Avg KW over 5,000: Max KW: Number of Luminaires: Average Lamp Tilt Factor: 28 43.79 47.6

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated

life of the lamp.

Field Measurements: Averages shall be +/-10% in measurements may vary from computer predictions. accordance with IESNA RP-6-01 and CIBSE LG4. Individual

Electrical System Requirements: Refer to Amperage for electrical sizing. Draw Chart and/or the "Musco Control System Summary"

nominal voltage at line side of the ballast and structures located within 3 feet (1m) of design locations. Installation Requirements: Results assume +/- 3%

3

SCALE IN FEET 1: 200

200

400

File #: 146986R1

Pole location(s) \oplus dimensions are relative Not to be reproduced in whole or part without the written to 0.0 reference point(s) \otimes consent of Musco Lighting. @1981, 2010 Musco Lighting

By: Brad Hannon

Date: 21-Dec-10

	ס	Pole			Luminaires	ŝ		
ΥŢΩ	LOCATION	SIZE	GRADE	MOUNTING	TYPE	POLE /	GRID	GRIDS
2	MP3, MP4	60'	ı	60'	1500W MZ	4/3*	7	0
2	MP1, MP2	60'		60'	1500W MZ	4	4	0
2	MP5, MP6	6 6	1	60'	1500W MZ	ω	ω	0
-		1	TOTALS	8	•	28	28	0

GREEN GENERATION LIGHTING* GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

Spill Scan

Pflugerville,TX Pflugerville Hill Country Bible Soccer

Spill Scan
Grid Spacing = 30.0'
Values given at 3.0' above grade

Rated Lamp Life: Avg Lumens/Lamp: Luminaire Type: Green Generation 5,000 hours

CONSTANT ILLUMINATION

134,000

MP1

Ф

ф

MP2

MAX VERTICAL FOOTCANDLES

No. of Target Points: 32

Average: 0.2616

Maximum: 0.33

Minimum: 0.12

Number of Luminaires: Average Lamp Tilt Factor:

\$\begin{align*}
\rho_{20} & \r

1.000 28 43.79 47.6

Avg KW over 5,000: Max KW:

Guaranteed Performance: The CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing. measurements may vary from computer predictions. accordance with IESNA RP-6-01 and CIBSE LG4. Individual Field Measurements: Averages shall be +/-10% in

MP5

Ф

ф

MP6

MP4

Ф

Φ

MP

Installation Requirements: Results assume +/- 3% located within 3 feet (1m) of design locations. nominal voltage at line side of the ballast and structures



SCALE IN FEET 1:200

File #, 146986R1

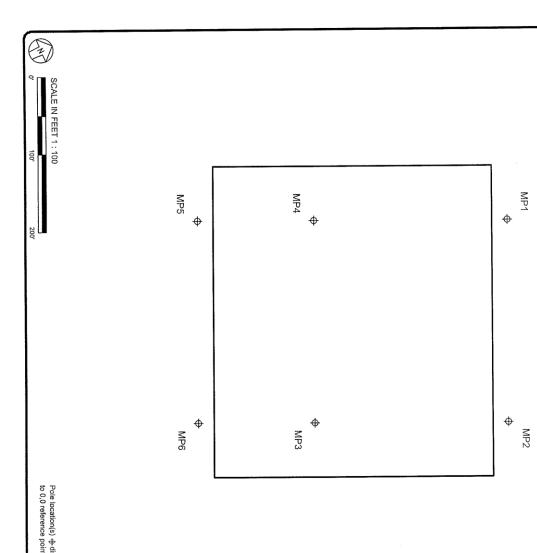
Date: 21-Dec-10

Pole location(s)

dimensions are relative Not to be reproduced in whole or part without the written to 0.0 reference point(s)

consent of Musco Lighting.

©1881, 2010 Musco Lighting By: Brad Hannon





GUARANTEED PERFORMANCE

EQUIPMENT LAYOUT

Pflugerville Hill Country Bible Soccer Pflugerville,TX

INCLUDES:

Multi-Purpose

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume +/- 3% located within 3 feet (1m) of design locations. nominal voltage at line side of the ballast and structures

Thi	თ	2	N	Ν	PΤΩ		
s structure u		MP5, MP6	MP1, MP2	MP3, MP4	LOCATION	Po	EQUIPN
tilizes		60'	60'	60'	SIZE	Pole	Ē
a back-to-b	TOTALS				GRADE		LIST F
ack mounti	S	60'	60'	60'	HEIGHT		OR ARE
This structure utilizes a back-to-back mounting configuration	ļ	1500W MZ	1500W MZ	1500W MZ	TYPE	_uminaires	EQUIPMENT LIST FOR AREAS SHOWN
	28	ω	4	4/3*	POTY TOTAL	1	

1500 watt MZ

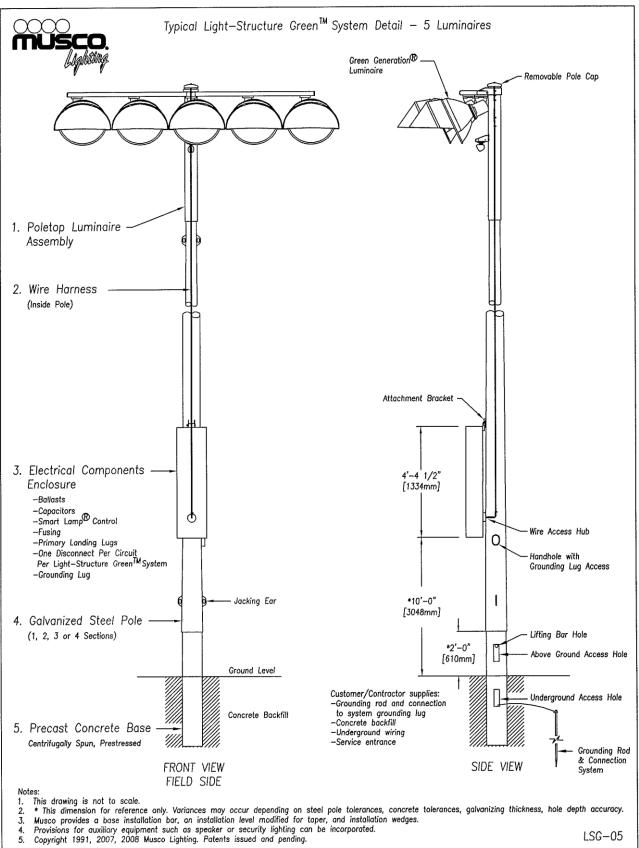
By: Brad Hannon

File #: 146986R1 Date: 21-Dec-10

Pole location(s)

dimensions are relative Not to be reproduced in whole or part without the written to 0.0 reference point(s)

consent of Musco Lighting. ©1981, 2010 Musco Lighting



Athletic Field Lighting Ordinance Requirements:

- 1. Fixture (Luminaire):
 - a) Fixture. The proposed fixtures from Musco. They are die-cast aluminum housing and will be placed on galvanized steel poles on a concrete base.
 - b) As provided by Musco:

"The Illuminating Engineering Society (IES) defines a cut-off fixture as a "luminaire light distribution where the candela per 1000 lamp lumens does not numerically exceed 2.5 percent at or above an angle of 90 degrees above nadir and 10 percent at or above a vertical angle 80 degrees above nadir." What this means is that there is a limitation of how much light produced by the fixture can be projected up and above the fixture. The main purpose of a cut-off fixture is to ensure that a high percentage of the light produced by the fixture is directed to the area to be lit and not directed to areas that do not need to be lit such as the sky above the fixture. In order to meet the full-cutoff requirement, fixtures must use internal reflectors and some type of a visor to direct the light in the proper direction. In most cases, the lamp in the fixture will be visible when standing beneath it but is not visible when looking at the fixture from the same level or from above the fixture.

The proposed Musco Green Generation Luminare is the industry leader in Sports Lighting light control and this fixture meets all of the cut-off fixture requirements defined by IES. This fixture uses customized reflector inserts and a revolutionary visor that achieves this high level of light control while reducing the impact to the environment. Because this system has the ability to precisely direct the light, the required fixture quantities have been reduced by 40% when compared to Musco's previous technology. This means that the amount of spill light and the amount of energy required to light a field has also been reduced by at least 40% which is a huge value to the customer."

- c) Power will be extended from the current underground system to the poles. No power lines will be visible. A transformer in a nearby shed is already in place to serve this need.
- d) 1500 watt metal halide lamp systems will be used.
- 2. Fixture Height: Design calls for 60' pole height.
- 3. Lighting Period.
 - a. Soccer practice lighting period is generally 5:30-9:15 Monday through Thursday, with lights off by 9:30. Other special events may be scheduled from time to time but the electronic controller, locked and in the church, will shut off the lights no later than 10:00pm.
 - b. An on-site control switch for on/off function during allowable hours will be provided.
- 4. As shown in the design, the maximum is 26 fc.
 - a. As shows in the design, the maximum horizontal illumination at the edge of the property line is .04 fc; .33 fc measured vertically.
- 5. Plans
 - a. Photometric plan is attached.
 - b. Site Update Plan already submitted to the city is marked with the pole placements.