

### **City of Madison**



## Permit

Property located at:	Permit date:	Permit number:
201 S GAMMON RD	08/13/2018	BLDELE-2018-11184
Owner name MADISON METRO SCHOOL DIST	Owner mailing address 545 W DAYTON ST MADISON, WI 537	-

Contractor Name:	License holder number
FORWARD ELECTRIC INC	252204
Contractor Mailing address	Phone
6909 RAYWOOD RD MADISON, WI 53713	(608) 221-1945
(4.18)	jennifer@forwardelectric.com

This permit is issued for execution of the work indicated. It is hereby agreed that all work will be installed in accordance with all City of Madison Ordinances and department rules relating to such work.

TYPE OF BUILDING:	COMMERCIAL
PROJECT DESC:	NEW LIGHTING FOR FOOTBALL AND BASEBALL FIELDS
NATURE OF JOB:	REPAIR/ALTERATION

#### EXISTING BUILDING

(Number of Openings Added) (Includes: Convenience Outlets, Switches, Fixture, Fixed Appliances, etc.) Minimum fee \$15.00

\$2.00 per opening for the first 20 openings, plus

\$1.50 per opening for the additional 21-40 openings, plus

\$1.00 per opening for the additional 41-99 openings, plus

\$0.50 per opening for all openings over 100.

FEES:

### Item Description

Number of Openings Added or Moved

Fee
30.00

TOTAL INSPECTION FEES:

### 30.00

#### **Inspector Assigned**

James Ruetten 608-266-4554 jruetten@cityofmadison.com KnowledgeLake View



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(608) 221-1945

http://ecmsliveportal/\_layouts/klviewer/default.aspx?doc=http%3a%2f%2fecmsliveportal... 1/17/2019



### **City of Madison Site Plan Verification**

Review	Status		Reviewer	Reviewed
Revision History:	<u>0</u>			
Status:	Approved			
Description:	Updating lighting for Me	morial High School's	football and baseball fields	
Project Type:	Permitted Use Site Plar	Review		
Contact:	Jenn Luhman (608) 221-1945 jennifer@forwardelectric	c.com		
Submitted by:	Forward Electric			
PROJECT: LND	SPR-2018-00101	Address: 201 S	Gammon RD	Current Revision #: 0

Review	Status	Reviewer	Reviewed
Lighting Review	General -	Steve Rewey	Aug 2 2018
Urban Design Commission Review	Amatan Swimple	Janine Glaeser	Aug 6 2018
Zoning Review	Appana we'd Hitter 1	Christina Thiele	Jul 31 2018

#### URBAN DESIGN COMMISSION

#### Note

Building Plan review team to confirm no light trespass and full light cut-off fixtures.

#### ZONING

#### Supplement Accepted

Submit \$50 site plan review fee. Checks are made out to City of Madison.

#### Supplement Accepted

Comment Date: 07/30/2018

Comment Date: 08/06/2018

Comment Date: 07/30/2018

Per Section 28.186(4)(b), the property owner or operator is required to bring the property into compliance with all elements of the approved site plans by the date established by the Zoning Administrator as part of the site and building plan approval. Work with Zoning staff to establish a final site compliance date.

\*\*Applicant provided the date 9/1/18\*\*

property of the second 1728 2 20 A22423 2CVTE: 1 inch = 60617 81/22/90 tang pilip pe nipata ang pini lipat Raya dagamag ang Rayan ang m tang pelan per tangi kang man 5 .09 = 1 150. .09 Part of the second 1901 10-01-05 the with addressive LOINS'D 2 C C C S C S S S S S S **GAJTEMAR.**3 ..... of pole sections @ 0'(FIELD SIDE) ne **C.RAMSTEAD** Mign weld marks located at bollom 163423 E.A 14 52 and a c FIELD ID: Fooldall This symbol represents the 0.0 point for focoling poles. . ET :seeul anore spore tim a'303 salor primolol adT 04TE: 05/22/18 Unic document, plaste contoct CONNOR RANSTEAD, your project engineer. F3 F4 E4 PME E3 HM XE Ð R you have questions perioning TR Ed Pole 0 1 Pole 0 0 £3 Hootboll Pole 53 0 E1 Pole 0 0 10 ۲. X 1.D sct-531-Field Name 531 500 GP SOL Pale Leser Aining Paints E-C-S.C.S di 571 718 703 500 1 12 178 1 71 1 50 1 10 1 10 508 550 570 540 514 1 744 260 400 412 460 Per LED Lumpics d 咋 0E 宿田 • . 6 0 6 (1) 6 . (7) (0) JL 3 PHASE VOLTAGE: 4804 SNORADI SPECIFICATIONS 11/ 100 5 9/ 5 22 5 73 ( 80 1 24 1 78 1 78 (23) Per LED Luminuire 0 () () (I 66 a summer state to see the 508 550 530 540 511 241 280 400 412 480 LIVE XWR 525-031-011 (1) 1 ٢ 33) (n)6 6 (05) 3 PHASE AORI - 30VITOA SNOULANARY SPECIFICATIONS īb 0 99) 9 92 6 46 9 18 2 85 2 12 4 10 2 14 3 29 3 4 3 28 9 Per LED Luminits P.O. Box B08 100 1st Avenue Oskolecso, iowo 800/825-6020 508 550 520 540 511 241 280 400 412 480 3 PHASE VOLIAGE: 4804 DRIVER SPECIFICATIONS 0 Specification Chart (localed below) for manufacturer's amperage draw. TICE in undersized colculations. Relet to Musco's Control System Summary or Went 52577 roled omperage draw per luminaire (kVA). Using the kW rating can result 1 of Ì۵ Overcurrent devices and canductors MUST be sized using the Manufacturer's LJ Free ES Int 02'85 99 -STATOT 13 53 17C-FED-1120 15 15 1280 1780 90,  $\leq$ LIC-1E0-400 I I 0:40 0:40 808 ,02 E E 0 Ω ALCI ALCI dison 월자 월자 종 7: 525-18-018 .91 Field Aiming STC-FED-1120 15 15 1790 1290 .08 11 Madison, .05 LTC-TED-400 1 1 040 040 ,0 808 £β ,51 511 511 2 3 LC-B1-575 ы £5 IC-IED-1120 11 11 1792 1592 ,02 2 808 23 1 512-18-21 .91 Me 511 511 2 SECTED-1120 11 11 15 16 15 12 .08 きの前端な 808 13  $\mathbf{I}$ 0 11C-B1-212 5 112 112 "Sī З Diagram VIIII ION DARMANN WOMAL WOMAL IOND IOND IOND JUS LINDIAN BOLE THE DEST 144E Frimmer FOCVIION 601E COMPLEX OF õ 'A313 DOG ř.  $\leq$ **SERVINIANIS** 770-1.2 1.1 +02124 -163423-p-FB #1/XVN/22 20 Ec Innit Т juaudinby builybil S Wind Design Criterio: IBC STD 2009 90MPH Exposure C

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### Madison Memorial High School

Madison, WI

#### **Lighting System**

Pole ID	Summary Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	80'	15'	2	TLC-BT-575	1.15 kW	Α
diff.		80'	11	TLC-LED-1150	12.65 kW	A
F3-F4	80'	15'	2	TLC-BT-575	1.15 kW	A
	1.1	80'	12	TLC-LED-1150	13.80 kW	А
21		50'	1	TLC-LED-400	0.40 kW	A
4	Constant and the		56	Net Warden and The State	58.30 kW	ALL STREET

<b>Circuit Sum</b>	mary		
Circuit	Description	Load	Fixture Qty
A	Football	58.3 kW	56

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity.
TLC-LED-1150	LED 5700K - 75 CR	1150W	121,000	>63,500	>63,500	>63,500	46
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>63,500	>63,500	>63,500	8
TLC-LED-400	LED 5700K - 75 CRI	400W	38,600	>63,500	>63,500	>63,500	2

### Light Level Summary

Calculation Grid Summar	y							
	Calculation Metric	The second second		Illumination		- In Million	Circuite	Fixture Qtv
Grid Name	calculation matric	Ave	Min	Max	Max/Min	Ave/Min	Chicano	
Bleachers	Horizontal	4.60	0	- 14	62.20		A	56
Football	Horizontal Illuminance	50.8	41	62	1.50	1.24	A	56
Soccer	Horizontal Illuminance	51	41	63	1.56	1 24	А	56
Track	Horizontal Illuminance	16.3	0	44	205.30		A	56

### From Hometown to Professional









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**PROJECT SUMMARY** 

ENGINEERED DESIGN By: Connor Ramstead • File #163423-p-FB • 23-May-18

EQUIPA		IST FOR	AREAS SI	HOWN		uminaires		(2) +1 = (2)						Madison Memorial High School
2	ocation F1-F2 F3-F4	SIZE 80' 80'	GRADE ELEVATION	MOUNTING HEIGHT 15' 80' 15' 50' 80' 80'	TLC-I TLC-LE TLC-LE TLC-LE	uminaires INAIRE I/PE BT-575 D-1150 BT-575 ED-400 D-1150	QTY1         THIS           POLE         GRID           2         2           11         11           2         2           1         11           1         1           12         1           56         56	OTHER GRIDS 0 0 0 0 0 0 0 0						Madison, WI GRID SUMMARY Name: Football Size: 360' x 160' Spacing: 30.0' x 30.0' Height: 3.0' above grade
	Lieu T	154											F2	ILLUMINATION SUMMARY         Maimained Horizontal Footcanders         Entire Grid         Guaranteed Average:       50         Scan Average:       50.77         Maximum:       62         Minimum:       1.23         Guaranteed Max / Min:       2
		51	<u>,</u> 61	.58	.58	<i>,</i> 53	<i>4</i> 5	.45	-52	. <u>5</u> 8	- <mark>,61</mark>	62	48	Max / Min: 1.50 UG (adjacent pts): 1.29 CU: 0.54 No. of Points: 72 UUMINARE INFORMATION
		.51	.62 <sup>0)</sup>	,54 <sup>02</sup>	,49 <sup>08</sup>	47 <sup>0</sup> r	,45 <sup>09</sup>	,45 <sup>0+</sup>	,46 <sup>00</sup>	,50 <sup>07</sup>	.56 <sup>01</sup>	£1	49	Color / CRI: 5700K - 75 CRI Luminaire Output: 121,000 / 52,000 / 38,600 lumens No. of Luminaires: 56 Total Load: 58,3 kW
		_44	<i>5</i> 6	251	<i>.</i> 45	<i>A</i> 2	A2	AI	<i>4</i> 2	<i>4</i> 5	/ <sup>51</sup>	<b>.</b> 56	45	Luminaire Type         L90 hrs         L80 hrs         L70 hrs           TLC-LED-1150         >63,500         >63,500         >63,500           TLC-BT-575         >63,500         >63,500         >63,500
		.43	.55	.52	A5	.42 \	A2	42	<i>A</i> 1	<u>4</u> 4	50	<i>5</i> 6	48	TLC-LED-400         >63,500
		.48	60 وا	,56 20	,50 30	47 <sub>40</sub>	.45 50	45 40	.46 30	.48 20	,53 10	<i>,</i> 61	.55	is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor, Field Measurements: Individual field measurements may var from computer-calculated predictions and should be taken
		48	,61	60,	.59	,53	<u>,45</u>	<u>45</u>	.53	.58	,57	<u>,</u> 61	55	In the function of the second second second be taken in accordance with IESNA RP-6-15. Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing. Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.
	E4 SCALE	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	1 : 60									1164	A Transferrence	musco
	0'	8	60'	or Ramstea	120'						Pole location to 0,0 refere		nsions are relative ⊗	We Make It Happen.

ILLUMINATION SUMMARY

afall:	AMIENTITE P		AREAS SI			Luminaires	01911	OTHER						Madison Memorial High School Madison, WI
Y 	LOCATION F1-F2 F3-F4	SIZE BO' 80'	GRADE ELEVATION	MOUNTING HEGHT 15' 80' 15' 50' 80' 5	TLC- TLC-LE TLC-LE TLC-L	NAIRE YPE BT-575 ED-1150 BT-575 ED-400 ED-1150	QTY!         THIS           POLE         GRID           2         2           11         11           2         2           1'         1           12         12           56         56	0 0 0 0		*			1	GRID SUMMARY Name: Soccer Size: 330' x 200' Spacing: 30.0' x 30.0' Height: 3.0' above grade
	F1	164										164	F2	ILLUMINATION SUMMARY
	III												100	Entire Grid Guaranteed Average: 50 Scan Average: 50.99 Maximum: 63 Minimum: 41 Avg / Min: 1.25
		48	,59	,59	,60	<u>,5</u> 1	<b>A</b> 1	A1	<b>.</b> 51	<i>,</i> 60	<i>,</i> 61	,60	,45	Guaranteed Max / Min: 2 Max / Min: 1.56 UG (adjacent pts): 1.33 CU: 0.64
		.53	.63 CI	56 50	,53 (c	,51 (0)	.46 ∽	,46 Ci	,50 , (e	,54 (7	,59 ()		.50	No: of Points: 84 UMINAIRE INFORMATION Color / CRI: 5700K - 75 CRI Luminaire Output: 121,000 / 52,000 / 38,600 lumens
		47	,59	,52	<b>4</b> 6	<b>.</b> 44	43		<i>,</i> 43	<sub>4</sub> 7	<b>.</b> 54	,59	47	No. of Luminaires: 56 Total Load: 58.3 kW Lumen Mainterin Luminaire Type L90 hrs L80 hrs 1: L70 hrs
		.42	,54	51	<b>4</b> 4	.42	41¢	, A1	A1	.44	(,50	,55	.45	TIC-LED-1150         >63,500         >63,500         >63,500           TLC-BT-575         >63,500         >63,500         >63,500           TLC-LED-400         >63,500         >63,500         >63,500           Reported per TM-21-11. See luminaire datasheet for details         >63,500         >63,500
		.45	,58	,54	<b>A</b> 7	<i>A</i> 4	43	-43	.43	<b>4</b> 5	.51	59	52	Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
		49	,62	<u>59</u> 20	.55	51	.46 <sup>°°</sup>	<i>.</i> 46	.50 <sup>°1</sup>	. <mark>5</mark> 2	,55	<i>6</i> 3	58	Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
the second		.45	,59	<u>4</u> 61	<u>,</u> 61	,52	A1.	<b>A</b> 1	,51	.60	<i>,</i> 58	,59	.51	Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing. Installation Requirements: Results assume ± 3%
		104-		E contraction								184	o pullimente presidente.	nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.
9	-	IN FEET	-							8		n(s)	Sions are relative	We Make It Happen.
	<sup>0'</sup> ERED DI	ESIGN E	60' By: Connc	or Ramste	120' ead • File	#163423	-p-FB • 2	3-May-18	3					Nol Io be reproduced in whole or part without Ihe written consent of Musc Sports Lighting, LLC @1981, 2018 Musco Sports Lighting, LLC.

**GRID SUMMARY** Name: Soccer Size: 330' x 200' Spacing: 30.0' x 30.0' Height: 3.0' above grade **ILLUMINATION SUMMARY** MAINTAINED HORIZONTAL FOOTCANDLES Entire Grid **Guaranteed Average:** 50 Scan Average: 50.99 Maximum: 63 Minimum: 41 Avg / Min: 1.25 Guaranteed Max / Min: 2 Max / Min: 1.56 UG (adjacent pts): 1.33 CU: 0.64 No. of Points: 84 LUMINAIRE INFORMATION Color / CRI: 5700K - 75 CRI Luminaire Output: 121,000 / 52,000 / 38,600 lumens No. of Luminaires: 56 Total Load: 58.3 kW Lümen Mainfenvince Euminaire Type L90 hrs L80 hrs >63,500 TLC-LED-1150 >63,500 >63,500 >63,500 TLC-BT-575 >63,500 >63,500 >63,500 TLC-LED-400 >63,500 >63,500 Reported per TM-21-11. See luminaire datasheet for details



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	Luminaires MARE QTY7 THIS OTHER	2	Madison Me Madison, Wi	morial High	School	
utr         LOCATION         SLEE         ELEVATION         HEIGHT         T           2         F1-F2         80'         15'         TLC-1           2         F3-F4         80'         -         15'         TLC-1           2         F3-F4         80'         -         15'         TLC-1           50'         TLC-1         -         50'         TLC-1	YPE         POLE         GRID 6           BT-S75         2         2         0           ED-1150         11         11         0           BT-S75         2         2         0           ED-400         1         1         0           ED-1150         12         12         0           ED-1150         56         56         0		Spacing:	Track Irregular 30.0' x 30.0' 3.0' above grade		
F1 155	A2 ,20 ,18 ,15 ,18 ,28 ,40 ,32 ,			L FOOTCANDLES Entire Grid 16:34 44 0 76:92 205:30 0.00 0.12 50 N 5700K - 75 CRJ		
			Luminaire Output: No. of Luminaires; Total Load: Luminaire Type TLC-LED-1150		Lurrien Mainte NS L701	hrs
			TLC-BT-575 TLC-LED-400 Reported per TM-21-11.	>63,500 >63,5 >63,500 >63,5 See luminaire datasheet (	00 >63,5 00 >63,5 or details.	500 500
			is guaranteed per your I includes a 0.95 dirt depr Field Measurements: In from computer-calculate in accordance with IESN	Ausco Warranty docum eciation factor. ndividual field measure ed predictions and shou	ent and ments may var	
	.40 .29 .18 .15 .20 .31 .43 .39	24 +15 +18	Electrical System Requin Draw Chart and/or the <sup>6</sup> for electrical sizing. Installation Requiremen	ements: Refer to Amp Musco Control System ts: Results assume ± 3!	Summary"	
F4 1164		54 F3	nominal voltage at line s located within 3 feet (1n		Tuctures	
SCALE IN FEET 1 : 100		Pole location(s)	We N	lake It Happ		

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**ILLUMINATION SUMMARY** 

ENGINEERED DESIGN By: Connor Ramstead • File #163423-p-FB • 23-May-18



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ENGINEERED DESIGN By: Connor Ramstead • File #163423-p-FB • 23-May-18

100'

200'

Madison Memorial High School Madison, WI

### EQUIPMENT LAYOUT

INCLUDES:

#### Football Soccer

Track

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

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

	P	ole		Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	POLE		
2	F1-F2	80'	•	15'	TLC-6T-575	2		
				80°	TLC-LED-1150	11		
2	F3-F4	80'		15'	TLC-BT-575	2		
				50"	TLC-LED-400	1		
_				80"	TLC-LED-1150	12		
4	ERET-	1 = 51	TOTAL	C 2011728	4.14.20	56		

SINGLE LUMINAIRE AMPERAGE DRAW CHART										
Ballast Specifications (100 min power factor)	Line Amperage Per Luminaire (naix draw)									
Single Phase Voltage	208	220 (sc)	240	277 (60)	347 (60)	380 (50)	480			
TLC-LED-1150	6.8	65	5.9	51	41	3.7	3.0			
TLC-BT-S75	3.2	Э_О	2,8	2.4	1,9	17	1.4			
TLC-LED-400	2.5	2.3	2.1	1,9	1.5	14	1.1			



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EQUIPMENT LAYOUT



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#### Pole / Fixture Summary

Pole ID	Pole Height	Fixture Qty	Lemp Type	Circuit
A1	80'	6	1500W MZ	В
A2	80'	6	1500W MZ	В
B1	80'	10	1500W MZ	В
B2	80'	10	1500W MZ	В
C1	80'	4	1500W MZ	В
C2	80'	4	1500W MZ	В
D1	80'	3	1500W MZ	В
D2	80'	3	1500W MZ	В
8	Children and the state	46	have a set of the state of the set of the	and the second

#### Calculation Grid Summary

1000100 - 1010-1000001		1-9500-002-0	Light	Level		Unif	ormity	Circuits	Fixture Qty	
Grid Name	Calculation Metric	Type Ave Min Max		Max	Max/Min	Ave/Min	Giroona	1000000000		
Baseball (Infleid)	Horizontal Illuminance	Constant	51	36	60	1.66	1.41	B	46	
Baseball (Outfield)	Horizontal Illuminance	Constant	30.9	22	45	2.08	1.42	В	46	

#### **Circuit Summary**

Circuli	Description	Load	Fixture Qly
В	Baseball	71.94 kW	46

MY PROJECT Name: Madison Memorial High School Location: Madison, WI 7-1-5



ENGINEERED DESI	and a second	CONCERNENCE - C
By:	Connor Ramstead	
File # / Date:	163423-p-SB3	18-Jun-1

Sports Lighting, LLC. @1981, 2018 Musco Sports Lighting, LLC.

**PROJECT SUMMARY** 

EQUIP		IST FOF	R AREAS SH	IOWN		Lumin	aires									1
QTY 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	LOCATION A1-A2 B1-B2 C1-C2 D1-D2	size 80' 80' 80' 80' 80'	GRADE ELEVATION	MOUNTING HEIGHT 80' 80' 80' 80'		LAMP TYPE 1500W MZ 1500W MZ 1500W MZ 1500W MZ	- p	ITY/         THI           OLF         GRI           6         6           10         10           4         4           3         3           46         46	0 <u>GRIDS</u> 0 0 0 0							
			1			E		90'				A2	30"			
			ł	,28	,33	,35	,33	,35	,34	<i>4</i> 0	<b>,</b> 51	<b>,</b> 55	.50	38	2	
			25	<b>,</b> 39	<i>4</i> 0	<b>4</b> 1	<b>4</b> 2	<u>4</u> 3	43	<b>4</b> 9	<b>.</b> 56	1 <u>1</u> ()	<b>.</b> 58	50	25'	
			<b>,</b> 26	<b>,</b> 35	<b>,</b> 37	<b>,</b> 37	<b>,</b> 39	<b>4</b> 0	<b>4</b> 2	<b>.</b> 50	<b>.</b> 55	( <b>.</b> 59	<b>6</b> 0	.55	58° A1	
		K () C2		<u>,</u> 32	<b>,</b> 35	<b>,</b> 32	<b>,</b> 31	<b>,</b> 34	<b>,</b> 38	<b>4</b> 5	<b>.</b> 52	<b>.</b> 55	<b>.</b> 57	.53		
		02 '	350	<b>,</b> 28	<b>,</b> 29	<b>_</b> 26	<b>,</b> 25	<b>,</b> 27	<b>,</b> 30	,36	<b>4</b> 6	<b>.</b> 52	<b>,</b> 50	44		
			ALC: NO THE OWNER	<b>,</b> 27	<b>.</b> 27	<b>,</b> 24	<b>,</b> 22	<b>"</b> 23	<b>,</b> 25	<b>,</b> 31	-39	<b>.</b> 45	45	<b>,</b> 36		
			Provide Street	<b>,</b> 25	<b>,</b> 29	<b>,</b> 23	<b>,</b> 23	<b>,</b> 23	<b>,</b> 23	<b>,</b> 27	<b>"</b> 35	<b>.</b> 42	<b>.</b> 45	<b>,</b> 37	190'	
			1	<b>,</b> 25	<b>.</b> 28	<u>.</u> 25	<b>.</b> 24	<b>,</b> 22	<b>,</b> 22	<b>"</b> 25	<b>"</b> 31	<b>,</b> 39	<b>4</b> 4	<b>.</b> 34	j) Ý ₅8' <sup>≠</sup> B1	
			530	1	<b>,</b> 28	<b>,</b> 30	<b>.</b> 25	<b>,</b> 22	<b>,</b> 23	<b>"</b> 24	<b>"</b> 31	<b>.</b> 38	<b>4</b> 0	<b>,</b> 34		
			D2 325'	- /	<b>,</b> 22	<b>,</b> 28	<b>,</b> 29	<b>,</b> 27	<b>.</b> 25	<b>,</b> 25	<b>,</b> 32	<b>"</b> 36	<b>.</b> 38	<b>,</b> 30		
					~	,22	<u>.</u> 27	<b>,</b> 29	<b>,</b> 30	<b>,</b> 31	<b>"</b> 31	<b>,</b> 34	<b>.</b> 36	<b>,</b> 25		
					inco		s	,22	<b>,</b> 24	<b>,</b> 26	<b>,</b> 24	<b>,</b> 24	<b>,</b> 23			
					ł	D1 2	201			,ose C	 ;1	5				
	SCALE	IN FEE	T 1:80												+ dimensions point(s) &	are rela

n	US	<b>CO</b> .
MY PROJECT		
Name: Location:	Madison Me Madison, Wi	morial High School
GRID SUMMARY		
Name: Size; Spacing; Height:	Baseball Irregular 324 30.0' x 30.0' 3.0' above gr	' / 379' / 326' ade
CONSTANT ILLUM	INATION	
SUMMARY		HORIZONITAL FOOTCANDLES .
April 1 and a second	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	50.96	30.85
Maximum:	60	45
Minimum:	36	22
Avg / Min:	1.41	1.42
Guaranteed Max / Min:	1 2	2.5
Max / Min:	1.66	2.08
UG (adjacent pts):	1.32	1.56
No. of Points:	25	100
LUMINAIRE INFORMATIO	N 12 14	Part of the Rest Controls
Luminaire Type:	Green Gener	ation
Design Usage Hours:	5,000 hours	* B
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No: of Luminaires:	46	
Avg KW:	71.94 (78.2	max)

 $\gamma\gamma\gamma$ 

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the design usage hours of the system.

Field Measurements: Illumination measured in accordance with IESNA RP-6-15 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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

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

ENGIN	EERED DESI	GN	
	By:	Connor Ramstead	
	File # / Date:	163423-p-583	18-Jun-18

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Page 16 of 25

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100 M	TABLET	HEIGHT	80 (24.4)	80 (24.4)	80 (24.4)	60 (24.4)	80 (24.4)	80 (24.4)	BO (24.4)	80 (24.4)	80 (24.4)	80 (24.4)	80 (24.4)	80 (24.4)	80 (24.4) by Notlee: abund or variant and so the norticit finder or the norticit by the source of the source of the Lighten System	
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**Project Specific Notes:** 

## **Control System Summary**

100 100

### Project Information

. . .

DESCRIPTION

Project #:	163423
Project Name:	Madison Memorial High School SO SB FB
Date:	05/24/18
Project Engineer:	CRamstead
Sales Representative:	Greg Smidt
Control System Type:	Control and Monitoring
Communication Type:	Digital Cellular
Scan:	163423-p-SB1,163423-p-FB
Document ID:	163423P3V1-0524093230
Distribution Panel Locatio	n or ID: Service FB
Total # of Distribution Par	nel Locations for Project: 2
Design Voltage/Hertz/Pha	ase: 480/60/3
Control Voltage:	120

## Equipment Listing

DESCRIPTION	AFEROAINATE SIZE				
1.Control and Monitoring Cabinet	24	X 48			
Total Contactors Total Off/On/Auto Switches:	QTY 4 1	SIZE 30 AMP			

### **Materials Checklist**

#### Contractor/Customer Supplied:

- A single control circuit must be supplied per distribution panel location.
   If the control voltage is NOT available, a control transformer is required.
- Electrical distribution panel to provide overcurrent protection for circuits
  - Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- Wiring:
  - Dedicated control power circuit
     Power circuit to and from lighting contactors
  - Harnesses for cabinets at remote locations
  - Means of grounding, including lightning ground protection
- Electrical conduit wireway system
   Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- Mounting hardware for cabinets
   Control circuit lock-on device to prevent
- unauthorized power interruption to control power
- Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central <sup>™</sup> operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

#### IMPORTANT NOTES

- Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's ballast enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- 2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 5, A single control circuit must be supplied per control system.
- Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements



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## **Control System Summary**

Madison Memorial High School SO SB FB / 163423 - 163423-p-FB Service FB - Page 2 of 8





# **Control System Summary**

Madison Memorial High School SO SB FB / 163423 - 163423-p-FB Service FB - Page 3 of 8

### SWITCHING SCHEDULE

Field/Zone Description	Zones
Football	1

CONTROL PC	WER CONSUMPTION				
120V Single Phase					
Ū					
VA loading	INRUSH: 1568.0				
of Musco					
Supplied	SEALED: 194.8				

CIRCUIT SUMMARY BY ZONE								
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE	
F1	Football	13	13	21.7	30	C1	1	
F2	Football	13	13	21.7	30	C2	1	
F3	Football	15	15	22.9	30	C3	1	
F4	Football	15	15	22.9	30	C4	1	

\*Full Load Amps based on amps per driver.

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# **Control System Summary**

Madison Memorial High School SO SB FB / 163423 - 163423-p-FB Service FB - Page 4 of 8

PANEL SUMMARY								
CABINET #	CONTROL MODULE LOCATION		CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)		
1	1	C1	Pole F1	21.70				
1	1	C2	Pole F2	21.70				
1	1	C3	Pole F3	22.90				
1	1	C4	Pole F4	22.90				

	ZONE SCHEDULE							
CIRCUIT DESCRIPTIO								
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID				
Zone 1	1	Football	F1	C1				
			F2	C2				
			F3	C3				
			F4	C4				



## **Control System Summary**

Madison Memorial High School SO SB FB / 163423 - 163423-p-SB1 Service BB - Page 6 of 8





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# **Control System Summary**

### Madison Memorial High School SO SB FB / 163423 - 163423-p-SB1 Service BB - Page 7 of 8

### SWITCHING SCHEDULE

Field/Zone Description	Zones
Baseball	1

	CONTROL POWER CONSUMPTION					
	120V Single Phase					
-0	VA loading of Musco	INRUSH: 2548.0				
	Supplied Equipment	SEALED: 298.8				

BALLAST SPECIFICATIONS	VOLTAGE: 480v		THREE PHASE				
BALLAST OPERATING VOLTAGE	208	220	240	277	347	380	480
1500 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	8.6	8.3	7.5	6.5	5.1	4.7	3.7
1000 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	6.5	6.4	5.8	4.9	4.0	3.6	2.9

	CIRCUIT SU	JMMARY BY	ZONE			
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
A1	Baseball	6	14.8	30	C1	1
A2	Baseball	6	14.8	30	C2	1
B1	Baseball	10	25.9	30	C3	1
B2	Baseball	10	25.9	30	C4	1
C1	Baseball	4	11.1	30	C5	1
C2	Baseball	4	11.1	30	C6	1
D1	Baseball	3	7.4	30	C7	1
D2	Baseball	3	7.4	30	C8	1



# **Control System Summary**

Madison Memorial High School SO SB FB / 163423 - 163423-p-SB1 Service BB - Page 8 of 8

PANEL SUMMARY							
CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)	
2	2	C1	Pole A1	14.80			
2	2	C2	Pole A2	14.80			
2	2	C3	Pole B1	25.90			
2	2	C4	Pole B2	25.90			
2	2	C5	Pole C1	11.10		-	
2	2	C6	Pole C2	11.10			
2	2	C7	Pole D1	7.40			
2	2	C8	Pole D2	7,40			

	ZONE SCHEDULE							
	CIRCUIT DESCRIPTION							
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID				
Zone 1	1	Baseball	A1	C1				
			A2	C2				
			B1	C3				
			B2	C4				
			C1	C5				
			C2	C6				
			D1	C7				
			D2	C8				

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### LeRoy, Kevin M.

From:	Kelso, Nancy <nkelso@cityofmadison.com></nkelso@cityofmadison.com>
Sent:	Thursday, August 1, 2019 9:09 AM
To:	LeRoy, Kevin M.
Cc:	McReynolds, Amber
Subject:	Filing of ZBA Notice of Decision - Edgewood High School
Attachments:	ZBA Notice of Decision.pdf
Follow Up Flag:	Follow up
Flag Status:	Flagged

### **\*\* EXTERNAL EMAIL MESSAGE \*\***

Good Morning,

The letter of notice from the Zoning Board of Appeals (copy attached) was issued and signed by board chair Winn Collins on Thursday July 18, 2019. It was presented to our office the morning of Friday July 19, 2019. Due to the power outage and subsequent shut down of city services the letter was not sent out until Monday July 22, 2019. Because of that situation, Monday July 22, 2019 is to be considered as the filing date of the notice of decision.

Thank you,

Nancy Kelso Administrative Clerk City of Madison Building Inspection Division Madison Municipal Building 215 Martin Luther King Jr Blvd Suite 017 Madison, Wisconsin 53703-2984 *Tel*: 608-266-4556 <u>NKelso@cityofmadison.com</u>

### Katherine R. Rist

Foley & Lardner LLP 150 E. Gilman Street Madison, WI 53703 Tel: 608.258.4317 Email: <u>krist@foley.com</u>

From: Elliott, Michael <<u>michael.elliott@edgewoodhs.org</u>>
Sent: Friday, November 2, 2018 10:29 AM
To: Rist, Katherine R. <<u>KRist@foley.com</u>>
Subject: Fwd: Edgewood Highschool Athletic Field Use and the Adopted Master Plan

Katie

Here is the email from Matt.

Mike ------ Forwarded message ------From: **Tucker, Matthew** <<u>MTucker@cityofmadison.com</u>> Date: Fri, Oct 26, 2018 at 11:32 AM Subject: Edgewood Highschool Athletic Field Use and the Adopted Master Plan To: Brian Munson <<u>bmunson@vandewalle.com</u>>, Elliott, Michael <<u>michael.elliott@edgewoodhs.org</u>> Cc: Parks, Timothy <<u>TParks@cityofmadison.com</u>>, Stouder, Heather <<u>HStouder@cityofmadison.com</u>>, Arntsen, Allen <<u>district13@cityofmadison.com</u>>

Brian, Mike- The purpose of this message is to follow-up on our conversation earlier this week about the current usage of the athletic field, as that use relates to the adopted master plan for the Edgewood campus.

After the neighborhood meeting of Wednesday October 17, I became aware of the extensive use of the athletic field at the northwest corner of the site. I also closely reviewed the <u>adopted Master Plan</u>, to determine how language in the master plan relates to the athletic field usage. Specifically, in the "Open Space Plan" (section 3.8) the approve master plan identifies the athletics field to be used for "team practices, physical education practices." The lack of any further language in this section, or any other language in sections of the adopted Master Plan, leads me to the interpretation that current programing and usage of the field is operating outside of the allowances of the adopted Master Plan.

If you wish to continue the current level of programming on the field for 2019 and beyond, I believe that you will need to pursue an amendment to the approved Master Plan. I would be happy to talk with you, Alder Arntsen, and the neighborhood liaison committee, should you choose to explore a Master Plan amendment to expand the use of the athletic field. If you decide to continue with the current idea for a stadium expansion at the athletic field, you will also need to include language in this amendment that would incorporate allowing the current level of usage of the field to be allowable and continue.

The master plan does include some language contemplating future needs for the institution and its users. In the "Future Needs of Campus Institutions" (section 3.1) subsection on Athletics, reference is made to the lack of athletics and fitness space and to the difficulty of obtaining sites for off-campus and on-campus recreation. This section includes the language that "Multiple solutions, both on-and off-campus, will be necessary to meet these needs." This language does not explore the broader neighborhood or community needs that Edgewood appears to be attempting to address with the usage of the athletic field, however, the absence of reference to the broader community would not prohibit the broader discussion on expanded use of the facility for other community users from taking place.

Let me know if you have any questions.

### **Matt Tucker**

Zoning Administrator

**Building Inspection Division** 



215 Martin Luther King jr Blvd. STE 017

Madison, Wisconsin 53701-2984

Telephone: 608 266 4569

Em ail: <u>mtucker@cityofmadison.com</u>

www.cityofmadison.com/bi

Michael Elliott President Edgewood High School of the Sacred Heart 2219 Monroe St. Madison, WI 53711 (608) 257-1023 x 103 edgewoodhs.org | facebook.com/EdgewoodHS The preceding email message may be confidential or protected by the attorney-client or work-product privileges. It is not intended for transmission to, or receipt by, any unauthorized persons. If you have received this message in error, please (i) do not read it, (ii) reply to the sender that you received the message in error, and (iii) erase or destroy the message and any attachments or copies. Any disclosure, copying, distribution or reliance on the contents of this message or its attachments is strictly prohibited, and may be unlawful. Unintended transmission does not constitute waiver of the attorney-client privilege or any other privilege. Legal advice contained in the preceding message is solely for the benefit of the Foley & Lardner LLP client(s) represented by the Firm in the particular matter that is the subject of this message, and may not be relied upon by any other party. Unless expressly stated otherwise, nothing contained in this message should be construed as a digital or electronic signature, nor is it intended to reflect an intention to make an agreement by electronic means.

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### Office of the City Attorney

Michael P. May, City Attorney

Patricia A. Lauten, Deputy City Attorney

#### ASSISTANT CITY ATTORNEYS

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210 Martin Luther King, Jr. Blvd. Madison, Wisconsin 53703-3345 (Phone) 608-266-4511 (Fax) 608-267-8715 attorney @cityofmadison.com

LITIGATION ASSISTANT Patricia V. Gehler

August 20, 2019

BY EMAIL ONLY

Matthew D. Lee Foley & Lardner 150 East Gilman St., Suite 500 Madison, WI 53703

### RE: Introduction From the Council Floor

Dear Mr. Lee:

I am responding to your letter of August 15, 2019, in which you claim some irregularity in the introduction of Legistar 56091, amendments to the CI District zoning. I disagree with your analysis.

One of the options set out in sec. 2.05(1)(b), MGO, is that a matter introduced from the floor may be "referred to the next Common Council meeting for action." This zoning amendment was referred to the next Council meeting for action. The ordinance does not speak to what happens in the interim. Although I have not conducted an exhaustive search, my recollection is that similar procedures have been followed in the past, when a matter introduced from the floor actually is considered by a committee before it comes back to the next Council meeting pursuant to sec. 2.05(1)(b), MGO.

Finally, as we know, courts will not intervene when the question is whether a legislative body follows its own procedures. *State ex rel. Ozanne v. Fitzgerald*, 2011 Wis. 43, ¶ 48-51.

August 20, 2019 Page 2

Sincerely,

P.M 0

/ Michael P. May City Attorney

CC: Mayor Rhodes-Conway All Alders ACA John Strange https://madison.com/wsj/news/local/govt-and-politics/madison-picks-judge-doyle-square-developer-offering-fewer-affordable-housing-units/article\_b043cbf1-8724-5953-8b39-ba8782aeb7c3.html

BREAKING TOP STORY

## Madison picks Judge Doyle Square developer offering fewer affordable housing units

Emily Hamer | Wisconsin State Journal Sep 4, 2019

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Construction crews work on the Judge Doyle Square project in Downtown Madison last month. MICHELLE STOCKER, CAPITAL TIMES ARCHIVES

Emily Hamer | Wisconsin State Journal

fter months of negotiating with Gebhardt Development on the Judge Doyle Square project, the Madison City Council decided Tuesday to switch to a developer that will provide fewer affordable housing units, but a more feasible construction design.

On a near unanimous vote, the council picked Stone House Development — which the city's negotiating team had initially recommended — to build an apartment complex above the soon-to-be-completed parking garage on the Madison Municipal Building block.

Gebhardt had proposed around 80 affordable housing units, while Stone House proposed around 40, with around half being just as affordable as Gebhardt and half being less affordable.

Ald. Mike Verveer, 4th District, said while he wanted as many affordable units as possible Downtown, it was time for the city to go with the "more practical" proposal after continued complications with Gebhardt.

Last week in a closed session, the Finance Committee recommended the city terminate negotiations with Gebhardt, which it had originally chosen to develop the block, after concerns over construction challenges.

Gebhardt had initially planned to construct the building using an engineered wood frame, but that building technique is not yet allowed under state law. Gebhardt proposed using steel and concrete instead, but that would require costly modifications to the base of the building to support the weight. Richard Arnesen, vice president of Stone House Development, said his company's proposal would not require any modifications to the base of the building, which contains the parking garage and is known as the podium.

"We're at a time that we really need a straightforward development process," said Ald. Rebecca Kemble, 18th District.

Verveer said another factor that was considered when terminating negotiations with Gebhardt was that the developer planned to segregate the affordable housing units from the regular priced units.

Gebhardt had initially proposed setting aside 78 of 196 apartments for households with incomes at or below 60% of the county median income, or \$49,560 for a family of three.

In comparison, Stone House proposed a plan for 159 apartments, with 20 being for renters with household incomes at or below 60% of county medium income, and 17 for those with household incomes at or below 80% of county median income, or \$66,030 for a family of three.

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The council also approved an amended proposal for the other block of Judge Doyle Square, where Beitler Real Estate of Chicago is developing a hotel.

Heather Stouder, city planning division director, said the changes are "minor" and include removing a floor of parking from the building. Around 40 parking stalls will be moved across the street.

## Further delay on Edgewood vote

The council also voted to further delay a decision on whether to repeal Edgewood High School's master plan, which the city has said prohibits the school from hosting games on its athletic field. Edgewood requested to repeal its master plan in July, but at an Aug. 26 meeting, the city Plan Commission voted to delay a vote on that request for three weeks. On that timeline, the master plan vote would have been taken up on the Sept. 16 Plan Commission meeting and the Oct. 1 city council meeting.

At Tuesday's meeting, the city council voted 15-4 to delay the master plan vote for more than a month to the Oct. 14 Plan Commission meeting and Oct. 15 City Council meeting.

Ald. Shiva Bidar, 5th District, said the reason for the delay was to allow another proposal to get through the Plan Commission and City Council first. That proposal would require Edgewood High School to apply with the city before making modifications, such as adding lights or a sound system, to its field if the master plan is repealed.

City Council members who serve on the Plan Commission said they would like to know what the council decides on the field modification measure before voting on the master plan repeal. The council voted to keep that proposal on the earlier, Sept. 16 and Oct. 1 timeline.

# Funds for Hmong elders approved

In other business, the council, allocated \$47,900 in 2019 and \$115,000 in 2020 to Freedom Inc. and the Hmong Institute to support programming for South East Asian seniors, including mental health treatment, housing, social activities and other services.

The funds were split evenly between the organizations because some Hmong elders had stronger ties to Freedom Inc., others to the Hmong Institute, and city council members wanted to support all elders.

[Editor's note: This story has been updated to reflect a correction. An earlier version misstated the vote to select Stone House Development to develop part of the project. The voice vote was near unanimous.]

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### Emily Hamer | Wisconsin State Journal

Madison picks Judge Doyle Square developer offering fewer affordable housing units | Local Government | madison.com

Emily Hamer is a general assignment reporter for the Wisconsin State Journal. She joined the paper in April 2019 and was formerly an investigative reporting intern at the Wisconsin Center for Investigative Journalism.

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# Nice stretch of weather on tap for southcentral Wisconsin

Sep 4, 2019

# Day one of capital budget talks includes election security plan, non-lethal police weapons







Sep 10, 2019



## Madison Plan Commission: Edgewood needs to apply with city to add lights, sound to field Sep 17, 2019

# Is Madison's city government working for everyone? Officials encourage feedback

Sep 23, 2019

# Madison Finance Committee recommends \$4.1 million for affordable housing

Oct 8, 2019

Madison City Council approves \$4.1 million for affordable housing on East, Far West sides Oct 16, 2019

# Madison poised for deal with developer on Judge Doyle Square

Nov 15, 2019









## Madison committee recommends developer for grocery store, housing project on South Side

Nov 26, 2019

