

RESOLUTION 26-18

A RESOLUTION AUTHORIZING THE VILLAGE ADMINISTRATOR TO
PURCHASE LIGHTING FOR THE COVINGTON BASEBALL DIAMONDS

Whereas, the Village of Covington received a donation from the Covington community chest for the purchase of new baseball diamond lights;

Whereas, the Village of Covington's Village Administrator obtained a quote to supply the materials for the installation of new lighting as set forth in Exhibit A attached;

NOW THEREFORE, BE IT RESOLVED by the Legislative Authority of the Village of Covington, State of Ohio, that:

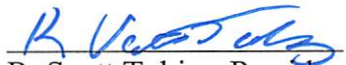
SECTION 1: the Village Administrator is authorized to execute all necessary documents to effectuate the purchase of lighting and materials set forth in option 1 of the purchase agreement designated as Exhibit A; and

SECTION 2: this resolution shall take effect and be in force from and after the earliest period allowed by law.

APPROVED July 10, 2018:



Edward L. McCord, Mayor



R. Scott Tobias, President of Council



Brenda Carroll, Fiscal Officer/ Clerk



MY PROJECT

Name: Covington Community Park Ballfields
Location: Covington, OH

EQUIPMENT LAYOUT

INCLUDES:
- Softball

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.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires	
					LAMP TYPE	QTY / POLE
2	A1-A2	42"	-	42'	1500W MZ	2
2	B1-B2	35"	-	35'	1500W MZ	2
2	C1-C2	40"	-	40'	1500W MZ	2
6	TOTALS					12

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage	208 (V)	220 (V)	240 (V)	277 (V)	347 (V)	380 (V)	480 (V)
1500 watt MZ	8.6	8.3	7.5	6.5	5.1	4.7	3.7

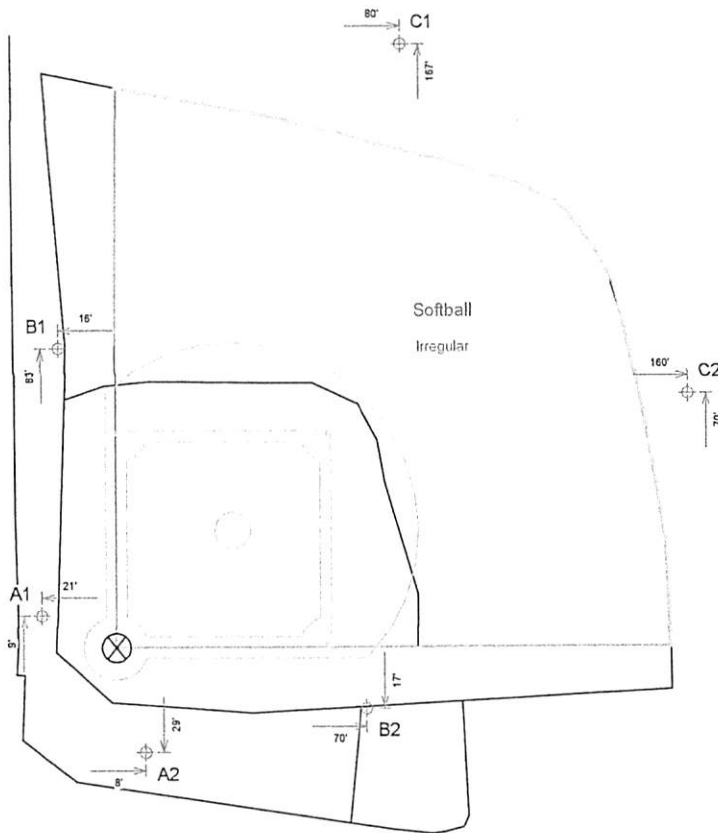
ENGINEERED DESIGN

By: K. Reynolds

File # / Date: 186460A

20-Jun-18

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SCALE IN FEET 1 : 40



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

EQUIPMENT LAYOUT

EQUIPMENT LIST FOR AREAS SHOWN

Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	42'	-	42'	1500W MZ	2	2	0
2	B1-B2	35'	-	35'	1500W MZ	2	2	0
2	C1-C2	40'	-	40'	1500W MZ	2	2	0
6	TOTALS					12	12	0



Pole location(s) + dimensions are relative to 0,0 reference point(s) ⊗



MY PROJECT

Name: Covington Community Park Ballfields
Location: Covington, OH

GRID SUMMARY

Name: Softball
Size: Irregular 155' / 174' / 155'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY	Infield	HORIZONTAL FOOTCANDLES Outfield
Scan Average:	43.67	26.94
Maximum:	61	46
Minimum:	22	16
Avg / Min:	1.96	1.70
Max / Min:	2.76	2.87
UG (adjacent pts):	1.83	2.10
CU:	0.54	
No. of Points:	25	40
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Design Usage Hours:	5,000 hours	
Design Lumens:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	12	
Avg KW:	18.77 (20.4 max)	

Guaranteed Performance: The 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.

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ILLUMINATION SUMMARY

Pole / Fixture Summary

Pole ID	Pole Height	Fixture Qty	Lamp Type	Circuit
A1	42'	2	1500W MZ	A
A2	42'	2	1500W MZ	A
B1	35'	2	1500W MZ	A
B2	35'	2	1500W MZ	A
C1	40'	2	1500W MZ	A
C2	40'	2	1500W MZ	A
6		12		

Calculation Grid Summary

Grid Name	Calculation Metric	Light Level				Uniformity		Circuits	Fixture Qty
		Type	Ave	Min	Max	Max/Min	Ave/Min		
Softball (Infield)	Horizontal Illuminance	Constant	43.7	22	61	2.76	1.96	A	12
Softball (Outfield)	Horizontal Illuminance	Constant	26.9	16	46	2.87	1.70	A	12

Circuit Summary

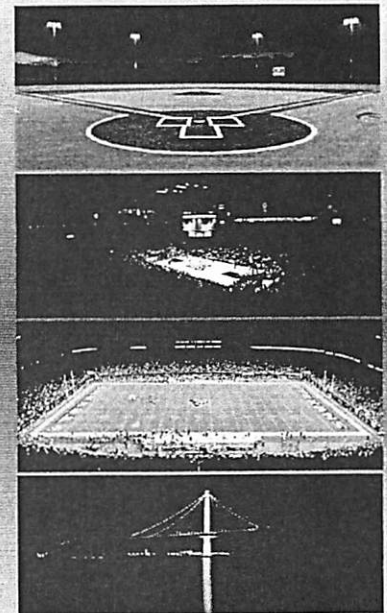
Circuit	Description	Load	Fixture Qty
A	Softball	18.77 kW	12



MY PROJECT

Name: Covington Community Park Ballfields
Location: Covington, OH

From Hometown to Professional



We Make It Happen®

ENGINEERED DESIGN

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PROJECT SUMMARY

Covington Ball Fields Field #3 Lighting Retrofit**Covington, Ohio****May 23, 2018****Design Criteria****Lighting Performance**

- Baseball/Softball field lit to recreational play
- Average of 30 foot-candles infield using 25 grid points on 20' x 20' grid
- Average of 20 foot-candles outfield using grid points on 20' x 20' grid

System Performance

- 2-year lamp warranty and all other parts 10-year warranty
- (12) Factory aimed and assembled fixtures with remote ballasts (drivers for LED system)
- (6) Factory wired and tested remote electrical component enclosures located at 10-ft above grade
- (6) Pole length, factory assembled wire harnesses for all fixtures; installing contractor to supply conduit run from remote ballast enclosure to cross arm assembly at top of pole
- (6) Factory wired pole top luminaire assemblies with pole mounting brackets
- Light Test to confirm light levels after commissioning of lights by contractor
- Field aiming by Musco Technician, if needed to meet lighting performance

Quotation Price – Materials Only Delivered to Job Site**Field #3 Lighting Retrofit, IES Class IV Recreational Play****Option #1: Material only with Metal Halide Light Source.....\$ 28,990.00****Option #2: Material only with LED Light Source.....\$ 52,519.00***Sales Tax & Bonding are not included.**Pricing furnished is effective for 30 days unless otherwise noted and is considered confidential.***Payment Terms**

Musco's Credit Department will provide payment terms; typical terms are net 30 days from shipment. Late payment will subject to service charges of 1½ % per month (18% APR).

Delivery Timing

4 - 6 weeks for delivery of materials to the job site from the time of order, submittal approval, and confirmation of order details including voltage, phase, and pole locations. Due to the built-in custom light control per luminaire, pole locations need to be confirmed prior to production. Changes to pole locations after the product is sent to production could result in additional charges.

Notes

Quote is based on:

- Shipment of entire project together to one location

Please contact me with any questions. Regards,

Tanner Howell
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