VILLAGE OF ROYAL PALM BEACH, FLORIDA

	ECT NAME: ECT NUMBER:	Lighting Upgrade Sports Fields PR2501								
		ADDENDUM NUMBER: ONE								
DATE	E OF ISSUANCE:	March 14, 2025								
ТО:	Prospective Bidders	;								
THIS	ADDENDUM NO.	One INCLUDES THE FOLLOWING:								
1)	Delete the following a. Appendix A	g documents from the appendix: (4 pages)								
2)	_	locuments to the appendix: 1 appendix A (4 pages) (20 pages)								
3)	Delete the following a. Drawing she	g drawings sheets eets 3 through 13								
4)	Add the following of a. Addendum 1	drawing sheets: 1 drawing sheets 3 through 14								
5)	Update all applicabl	e indices to reflect the changes listed in items 1 through 4.								
APPR	OVED BY: Chris	topher A. Marsh, P.E., Village Engineer								
ACKN	NOWLEDGMENT	OF RECEIPT:Bidder								

Date: 3/17/2025

Expiration date: 4/7/2025 To: Mark Pawlowski

Project: Bob Marcello Baseball LED Royal Palm Beach, Florida Musco Project Number: 233975

Sourcewell

Master Project: 199030, Contract Number: 041123-MSL, Expiration: 06/16/2027

Category: Sports lighting with related supplies and services

All purchase orders should note the following:
Sourcewell Purchase – Contract Number: 041123-MSL

Quotation Price – Materials Only Delivered to Job Site

Baseball Fields 1 and 4 – 225' Radius and 145' Radius	\$174,516.00
Ballfields 6 – 150' radius	\$75,610.00
Ballfields 7 – 110' Radius	
Ballfields 8 – 110' Radius	\$40,212.00
Basketball and Batting Cages – 90'x 50' and 70' x 60'	

Sales tax, bonding, labor, installation, and unloading of the equipment are not included.

Quote is confidential. Pricing and lead times are effective for 30 days only. Prices are subject to change if the order is not released within 60 days from the date of the purchase.

Light-Structure System™ with Total Light Control – TLC for LED™ technology

Guaranteed Lighting Performance

- Guaranteed light levels of 50 footcandles Field 1, 4, and 6 Infields, Fields 7 and 8. 30 footcandles Fields 1, 4, and 6
 Outfields, Basketball, and Batting Cages
- BallTracker® technology targeted light, optimizing visibility of the ball in play with no glare in the players typical line-of-sight

System Description

- Factory aimed and assembled luminaries, including BallTracker[®] luminaires
- (1) Galvanized steel poles (Batting Cages)
- (1) Pre-cast concrete bases with integrated lightning grounding (Batting Cages)
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Mounting hardware for poletop luminaire assemblies and electrical components enclosures
- Disconnects
- UL listed assemblies
- Enhanced corrosion protection

Control Systems and Services

Control-Link® control system to provide remote on/off control with 24/7 customer support

Operation and Warranty Services

- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 10 years
- Support from Musco's Lighting Services Team over 170 Team members dedicated to operating and maintaining your lighting system plus a network of 1800+ contractors

Responsibilities of Buyer

• The owner of the field is responsible for the structural integrity of the existing poles and/or structures



Payment Terms

Final payment terms are subject to approval by Musco credit department. Final payment shall not be withheld by Buyer on account of delays beyond the control of Musco.

Email or fax a copy of the Purchase Order to Musco Sports Lighting, LLC:

Musco Sports Lighting, LLC Attn: Musco Contracts Fax: 800-734-6402

Email: musco.contracts@musco.com

All Purchase orders should note the following:

Sourcewell Purchase - Contract Number: 041123-MSL

Delivery Timing

8 - 10 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/luminaire locations.

Notes

Quote is based on following conditions:

- Shipment of entire project together to one location.
- Voltage and phase system requirements to be confirmed.
- Structural code and wind speed = 2023 FBC, 170 mph, Exposure C, Importance Factor 1.0.
- Due to the built-in custom light control per luminaire, pole or luminaire locations need to be confirmed prior to production. Changes to pole or luminaire locations after the product is sent to production could result in additional charges.
- Standard soil conditions rock, bottomless, wet, or unsuitable soil may require additional engineering, special installation methods and additional cost.

Thank you for considering Musco for your lighting needs. Please contact me with any questions or if you need additional details.

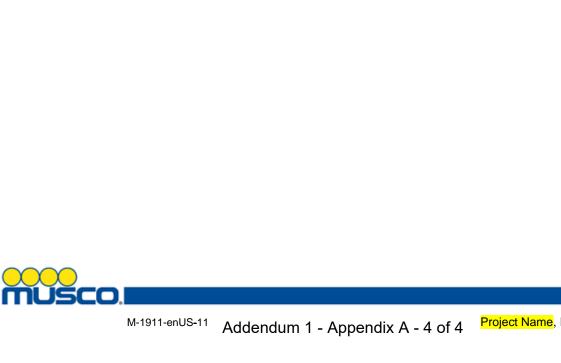
Sales Representative Musco Sports Lighting, LLC Phone: 954-629-8446

E-mail: tim.imhoff@musco.com



Equipment Description	
1	Light-Structure System™ Total Light Control™ TLC-LED-550 luminaires
2	Light-Structure System™ Total Light Control™ TLC-LED-900 luminaires
8	SportsCluster® System Total Light Control™ TLC-LED-550 luminaires
4	SportsCluster® System Total Light Control™ TLC-LED-550NR luminaires
37	SportsCluster® System Total Light Control™ TLC-LED-900 luminaires
17	SportsCluster® System Total Light Control™ TLC-LED-1200 luminaires
14	SportsCluster [®] System Total Light Control™ TLC-BT-575 luminaires
4	OSQ area luminaires with pole mounted auxiliary brackets
1	50 ft galvanized steel poles
1	Pre-cast concrete foundations (9,500 PSI) with integrated grounding
✓	Factory wired and assembled pole top luminaire assemblies
✓	Factory wired electrical component enclosures
✓	Factory built wire harnesses with plug-in connections







ID

35210

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 3:43:54 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A5 (AKA Pole 10)



RESOLUTION:







ID

35213

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:01:05 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

Pole 6 No box underneath



RESOLUTION:







ID

35214

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:08:05 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

C1 (AKA Pole 7) no box



RESOLUTION:







ID

35215

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:09:34 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

C4 (AKA Pole 8) no box



RESOLUTION:







ID

35216

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:11:50 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

C3 (AKA Pole 4) no box



RESOLUTION:







ID

35217

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:14:05 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A7 (AKA Pole 3) no box



RESOLUTION:







ID

35218

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:15:52 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A9 (AKA Pole 2) no box



RESOLUTION:







ID

35219

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

2/6/2025 4:21:11 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A7 (AKA Pole 5)



RESOLUTION:





ID

35220

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

UNKNOWN

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

BA2



RESOLUTION:





ID

35222

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

2/6/2025 6:47:48 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

BA1 no box



RESOLUTION:







ID

35223

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

2/6/2025 6:49:44 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

BA4



RESOLUTION:







ID

35224

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

2/6/2025 6:51:37 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

BA3



RESOLUTION:







ID

35225

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

UNKNOWN

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

No box located



RESOLUTION:







ID

35226

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

2/6/2025 6:56:40 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

B5



RESOLUTION:







ID

35227

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

UNKNOWN

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A4 (AKA Pole 12)



RESOLUTION:







ID

35228

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

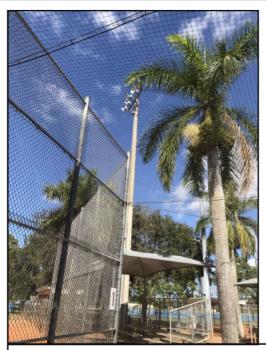
2/6/2025 7:01:54 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A6 AKA (Pole 11)



RESOLUTION:







ID

35229

STATUS

OTHER

INSPECTOR

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INSPECTION DATE

2/6/2025 7:04:04 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

C2 Behind field 1. Next to scoreboard



RESOLUTION:







ID

35232

STATUS

OTHER

INSPECTOR

OTHER

INSPECTION DATE

2/6/2025 7:14:15 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

B6 No box located



RESOLUTION:







ID

35607

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

3/3/2025 9:00:00 AM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

P1



RESOLUTION:







ID

35608

STATUS

OTHER

INSPECTOR

NOAH PRINCE

INSPECTION DATE

3/3/2025 3:01:54 PM

PROJECT

PR2501 Bob Marcello Lighting

COMMENTS:

A10



RESOLUTION:





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Pole Height | Mtg Height | Fixture Qty | Luminaire Type | Load (kw) | Circuit

TLC-LED-1200

TLC-LED-900

Cree OSQ

TLC-BT-575

TLC-LED-1200

TLC-LED-1200

TLC-LED-900

TLC-LED-900

Cree OSQ

TLC-BT-575

TLC-BT-575

TLC-LED-1200

TLC-LED-900

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TLC-LED-900

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Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
Cree OSQ	LED 5700K - 70 CRI	100W	15,520				4
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	17
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	9
TLC-LED-550NR	LED 5700K - 75 CRI	570W	67,000				4
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	39

ENGINEERED DESIGN By: Logan Schlee • File #233975C • 05-Mar-25

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM



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Lighting System

Bob Marcello Baseball LED

Light Level Summary

Calculation Grid Summary											
Grid Name	Calculation Metric		111	Circuits	Fixture Qtv						
Grid Name	Calculation Wethe	Ave	Min	Max	Max/Min	Ave/Min	Circuits	Fixture Qty			
Basketball	Horizontal Illuminance	34.68	20	45	2.18	1.70	F	4			
Batting Cages	Horizontal Illuminance	32.00	19	47	2.44	1.65	G	3			
Field 1 (Infield)	Horizontal Illuminance	50.16	35	61	1.74	1.43	Α	17			
Field 1 (Outfield)	Horizontal Illuminance	32.81	22	38	1.72	1.49	Α	17			
Field 4 (Infield)	Horizontal Illuminance	52.85	36	64	1.77	1.47	В	29			
Field 4 (Outfield)	Horizontal Illuminance	31.92	22	44	1.99	1.44	В	29			
Field 4 Bullpens	Horizontal	28.77	15	36	2.41	1.91	В	29			
Field 6 (Infield)	Horizontal Illuminance	50.70	35	57	1.63	1.45	С	18			
Field 6 (Outfield)	Horizontal Illuminance	33.86	24	40	1.69	1.42	С	18			
Field 7	Horizontal Illuminance	50.88	31	63	2.03	1.64	D	8			
Field 8	Horizontal Illuminance	51.50	35	61	1.74	1.46	E	8			

From Hometown to Professional









NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



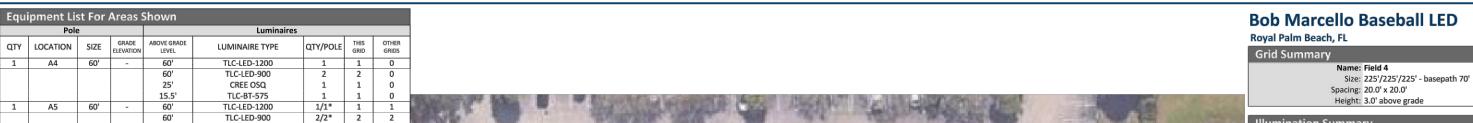
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PROJECT SUMMARY

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We Make It Happen



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	1	B5	60'	-	60'	TLC-LED-1200	2	2 0	14 TO 15			EDI 7 1 1	AND PERSONAL PROPERTY.											Infield	Outfield
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	-	05 00			70'	TLC-LED-900	2	2 (NAME AND ADDRESS OF	CONTRACTOR AND ADDRESS OF			30550			Service of the last	-	-	-			Market 1 - William St. Committee of the	Avg/Min:	1.47	1.44
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							B5 🛌 62	2	38	37	34	30	34	31	28	28				100			Field Measurements: Individ from computer-calculated pre in accordance with IESNA RP-6	dual field measi	urements may vary
	/					N.	7		35	36	34	31	34	33	29	30	30						Electrical System Requiremen Draw Chart and/or the "Mus for electrical sizing.	ts: Refer to A co Control Sys	Amperage stem Summary"
d.							-		32	35	30	29	34	32	29	29	32	29			The second		Installation Requirements: R nominal voltage at line side of located within 3 feet (1m) of d	f the driver and	d structures
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								933	42	40	34	31	30	29	30	32	32	35	35		No.	AND THE REAL PROPERTY.			

32

30

35

26

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



Pole location(s)

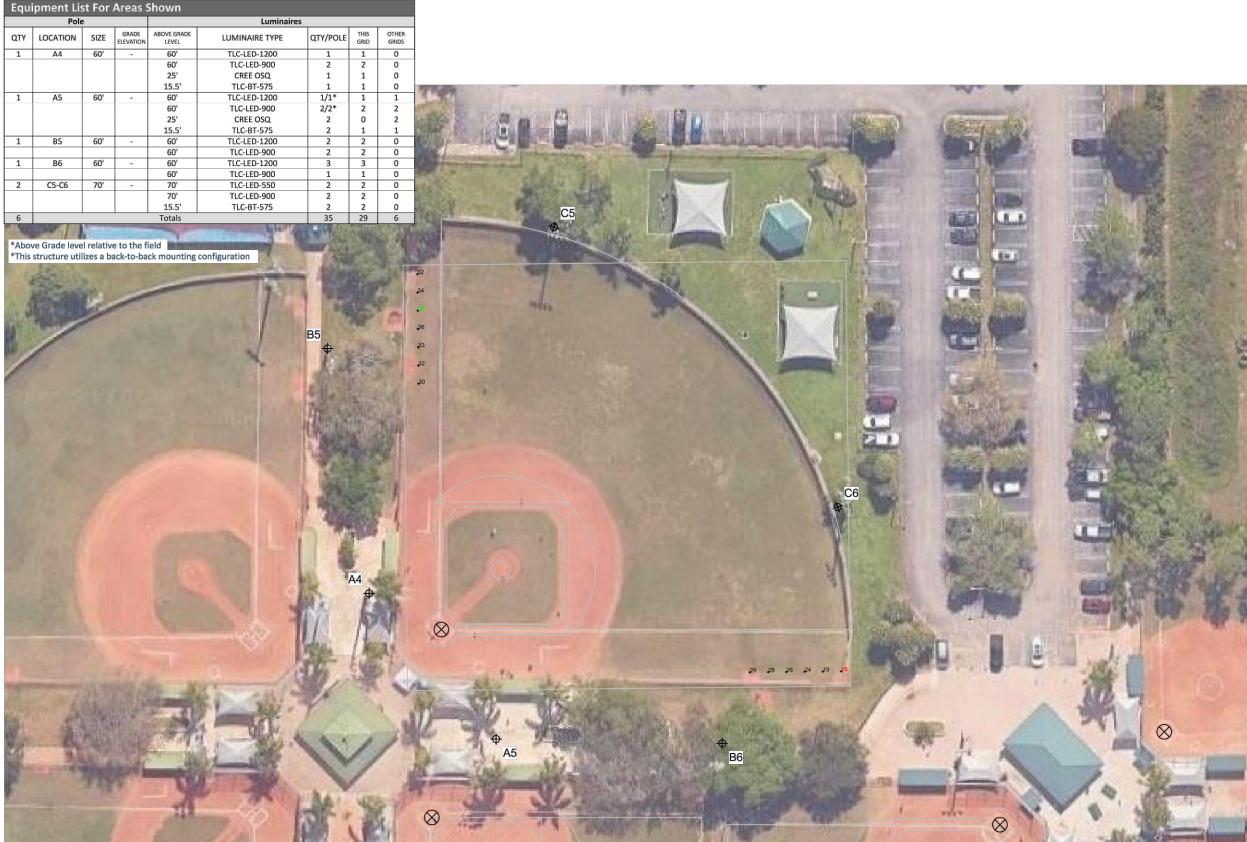
dimensions are relative to 0,0 reference point(s)

32

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1501, 2025	iviuscu	Sports	LIBITUTE,	LLC.			
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We Make It Happen.



Bob Marcello Baseball LED

Royal Palm Beach, FL

Grid Summary

Name: Field 4 Bullpens Spacing: 10.0' x 10.0' Height: -0.0' above grade

Entire Grid Scan Average: 28.77 Minimum: 15 Avg/Min: 1.91 Max/Min: 2.41 UG (adjacent pts): 1.29 CU: 0.01 No. of Points: 13 LUMINAIRE INFORMATION Applied Circuits: B No. of Luminaires: 29 Total Load: 23.58 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should 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.

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



Pole location(s)

dimensions are relative to 0,0 reference point(s)

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Name: Field 1

Scan Average: 50.16

Maximum: 61

Minimum: 35

Avg/Min: 1.43

Max/Min: 1.74

Applied Circuits: A

CU: 0.61 No. of Points: 25

Total Load: 12.86 kW

Spacing: 20.0' x 20.0'

Height: 3.0' above grade

Size: 148'/147'/145' - basepath 60'

32.81

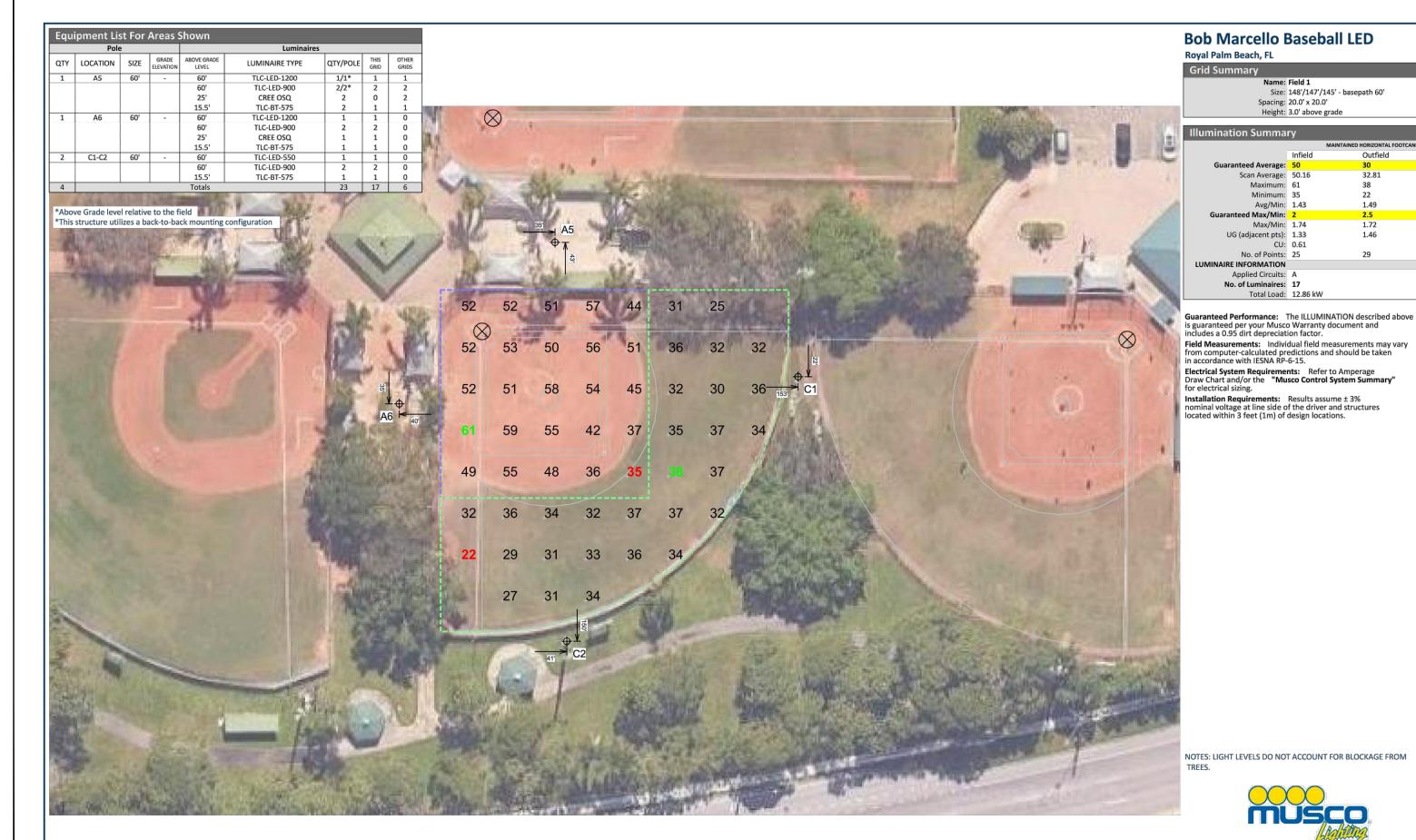
22

1.49

1.72

29

ILLUMINATION SUMMARY



Pole location(s)

dimensions are relative to 0,0 reference point(s)

SCALE IN FEET 1:40

ENGINEERED DESIGN By: Logan Schlee • File #233975C • 05-Mar-25

ILLUMINATION SUMMARY

Bob Marcello Baseball LED Royal Palm Beach, FL Grid Summary Size: 150'/150'/150' - basepath 60' Spacing: 20.0' x 20.0'

Illumination Summa	ry						
	MAINTAINED HORIZONTAL FOOTCANDLES						
	Infield	Outfield					
Guaranteed Average:	50	30					
Scan Average:	50.70	33.86					
Maximum:	57	40					
Minimum:	35	24					
Avg/Min:	1.45	1.42					
Guaranteed Max/Min:	2	2.5					
Max/Min:	1.63	1.69					
UG (adjacent pts):	1.28	1.52					
CU:	0.60						
No. of Points:	25	33					
LUMINAIRE INFORMATION							
Applied Circuits:	С						
No. of Luminaires:	18						
Total Load:	13.54 kW						

Height: 3.0' above grade

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

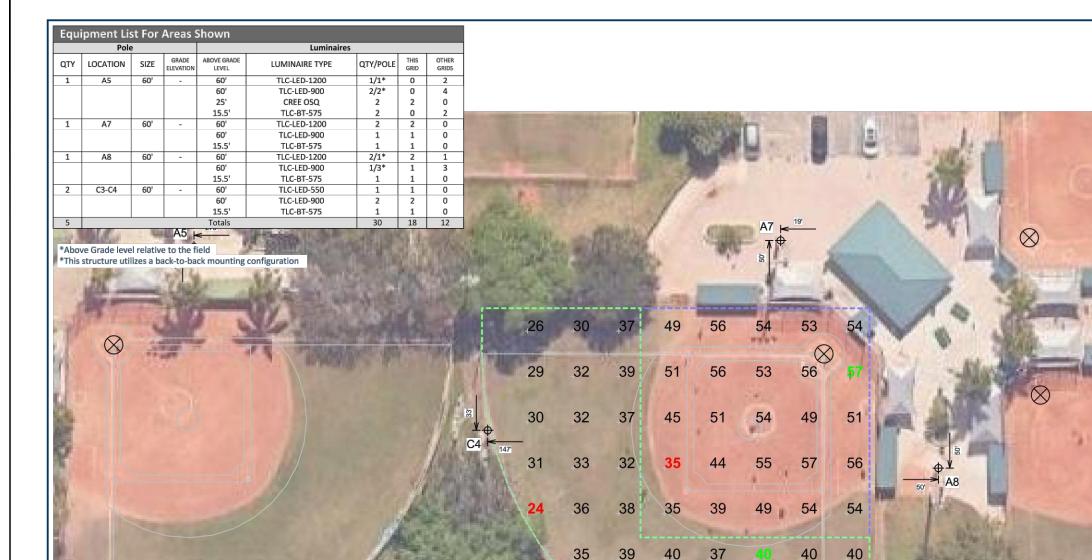
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summ for electrical sizing.

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

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



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SCALE IN FEET 1:40 ENGINEERED DESIGN By: Logan Schlee • File #233975C • 05-Mar-25

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s)

38

26

37

35

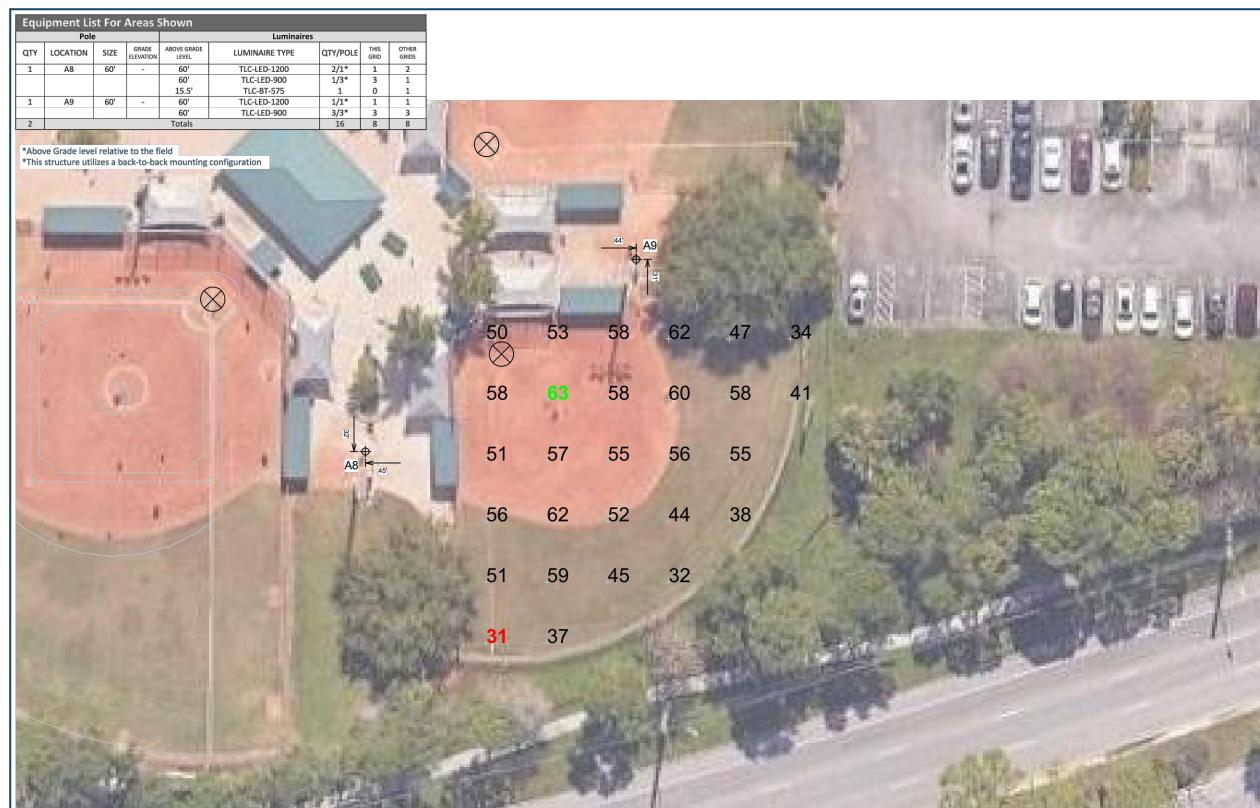
33

29

26

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ILLUMINATION SUMMARY



Bob Marcello Baseball LED

Royal Palm Beach, FL

Grid Summary Name: Field 7 Size: 110' x 110' Spacing: 20.0' x 20.0' Height: 3.0' above grade

lumination Summary Entire Grid Guaranteed Average: 50 Scan Average: 50.88 Maximum: 63 Avg/Min: 1.64 Guaranteed Max/Min: 2.5 Max/Min: 2.03 UG (adjacent pts): 1.66 CU: 0.64 No. of Points: 28 LUMINAIRE INFORMATION Applied Circuits: D No. of Luminaires: 8 Total Load: 7.62 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should 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.

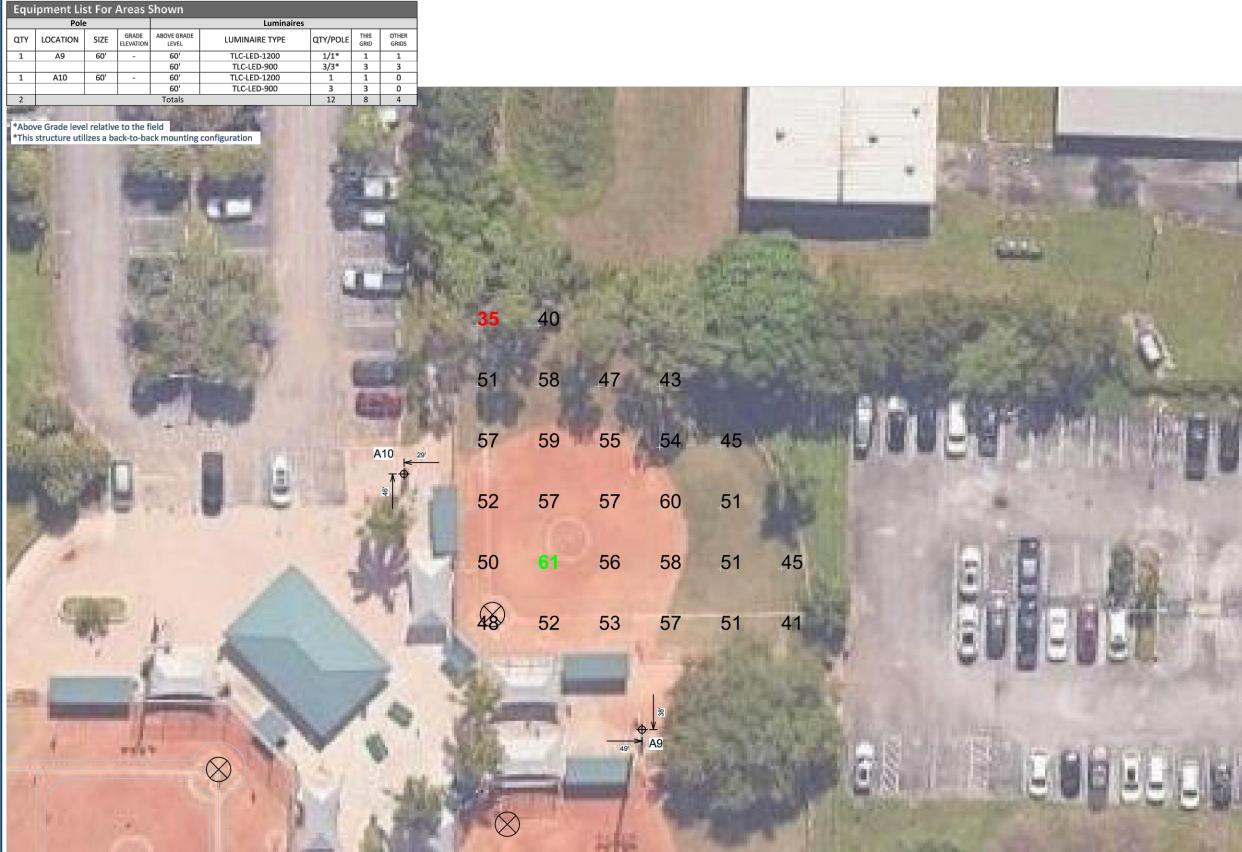
NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s)

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Bob Marcello Baseball LED

Royal Palm Beach, FL

Grid Summary

Name: Field 8 Size: 110' x 110' Spacing: 20.0' x 20.0' Height: 3.0' above grade

Entire Grid Guaranteed Average: 50 Scan Average: 51.50 Maximum: 61 Minimum: 35 Avg/Min: 1.46 Guaranteed Max/Min: 2.5 Max/Min: 1.74 UG (adjacent pts): 1.47 CU: 0.63 No. of Points: 28 LUMINAIRE INFORMATION Applied Circuits: E No. of Luminaires: 8 Total Load: 7.62 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should 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.

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM

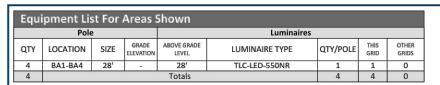


SCALE IN FEET 1:30

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We Make It Happen

ILLUMINATION SUMMARY





Bob Marcello Baseball LED

Royal Palm Beach, FL

Grid Summary

Name: Basketball Size: 90' x 50' Spacing: 10.0' x 10.0' Height: 3.0' above grade

Entire Grid Guaranteed Average: 30 Scan Average: 34.68 Maximum: 45 Avg/Min: 1.70 Guaranteed Max/Min: 3 Max/Min: 2.18 UG (adjacent pts): 1.68 CU: 0.62 No. of Points: 45 LUMINAIRE INFORMATION Applied Circuits: F No. of Luminaires: 4 Total Load: 2.28 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should 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.

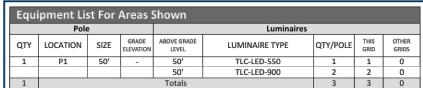
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



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ILLUMINATION SUMMARY





Bob Marcello Baseball LED

Royal Palm Beach, FL

Grid Summary Name: Batting Cages Size: 70' x 60'

Spacing: 10.0' x 10.0' Height: 3.0' above grade

Entire Grid Scan Average: 32.00 Maximum: 47 Avg/Min: 1.65 Max/Min: 2.44 UG (adjacent pts): 1.42 CU: 0.52 No. of Points: 42 LUMINAIRE INFORMATION Applied Circuits: G No. of Luminaires: 3 Total Load: 2.30 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

Field Measurements: Individual field measurements may vary from computer-calculated predictions and should 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.

NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM TREES.



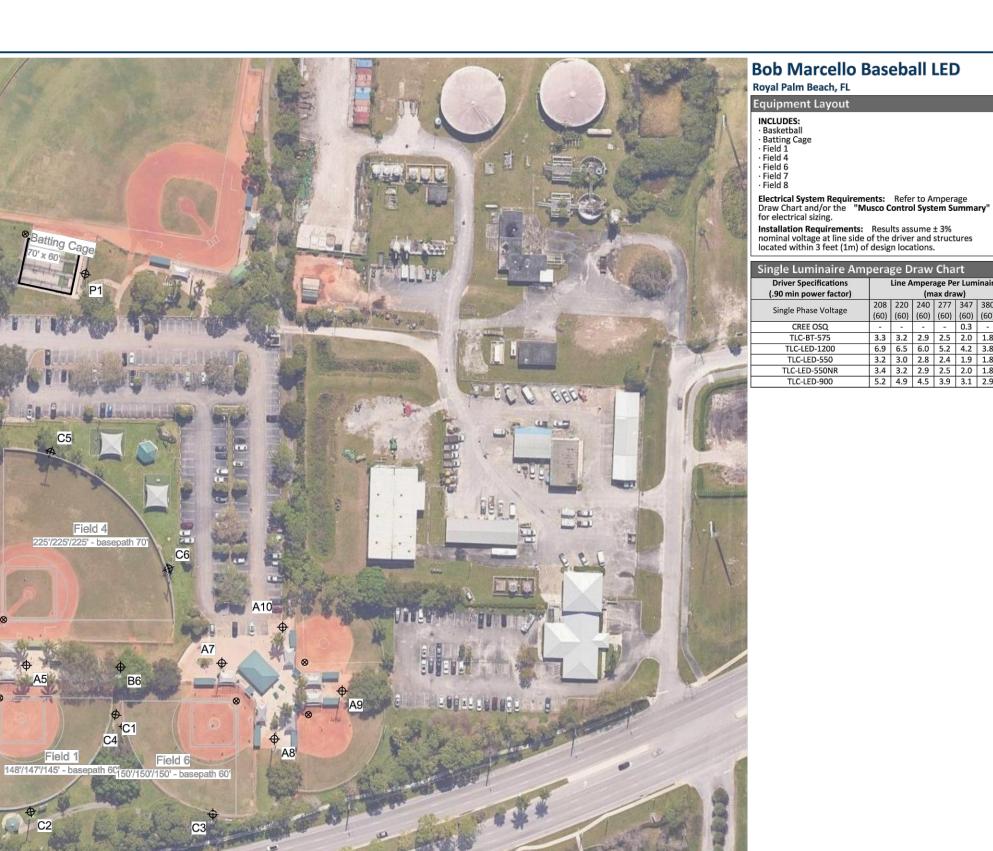
Pole location(s) \oplus dimensions are relative to 0,0 reference point(s)

SCALE IN FEET 1:20 ENGINEERED DESIGN By: Logan Schlee • File #233975C • 05-Mar-25

208 | 220 | 240 | 277 | 347 | 380

6.9 6.5 6.0 5.2 4.2 3.8 3.0 3.2 3.0 2.8 2.4 1.9 1.8 1.4 3.4 3.2 2.9 2.5 2.0 1.8 1.4 5.2 4.9 4.5 3.9 3.1 2.9 2.3

EQUIPMENT LAYOUT



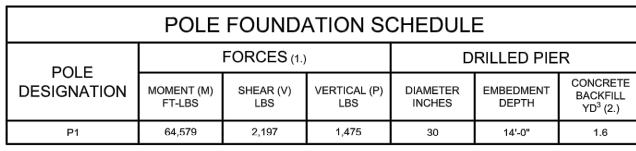
NOTES: LIGHT LEVELS DO NOT ACCOUNT FOR BLOCKAGE FROM



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SCALE IN FEET 1:120 0' 120' 240' ENGINEERED DESIGN By: Logan Schlee • File #233975C • 05-Mar-25

Pole location(s) \oplus dimensions are relative to 0,0 reference point(s)



ASD LOAD COMBINATION D + 0.6W. VERTICAL FORCE IS WEIGHT OF DRESSED POLE (DOES NOT INCLUDE PRECAST BASE WEIGHT).

LIGHT STRUCTURE ~

SOIL BACKFILL,

SEE NOTE BELOW

LIGHT STRUCTURE

PRECAST BASE BY

MUSCO LIGHTING (SEE POLE ID)

CONCRETE

BACKFILL

UNDISTURBED,

THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH

SOIL, WITH A CLASSIFICATION OF CLASS 4 (TABLE 1806.2) OR

BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98%

FOR A COHESIONLESS SOIL BASED UPON STANDARD

POLE FOUNDATION ELEV.

PROCTOR TESTING (ASTM D698).

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:

IN-SITU SOIL

DRILLED PIER DIAMETER

(SEE POLE FNDTN, SCH.)

STEEL POLE BY

(SEE POLE ID)

MUSCO LIGHTING

MINIMUM CONCRETE BACKFILL VOLUME, SITE CONDITIONS MAY REQUIRE ADDITIONAL BACKFILL

F	PRECAS	T BASE	IDENTIF	ICATION
PRECAST BASE TYPE	PRECAST BASE WEIGHT	PRECAST BASE LENGTH	PROJECTION ABOVE GRADE	STANDARD EMBEDMENT
4B	3,490 LBS	22'-0"	8'-0"	14'-0"
70	0, 100 EBO	22-0	0.40	1-1-0

POLE IDENTIFICATION				
POLE DESIGNATION	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION (FIX. PER XARM)	FIXTURE AND ACCESSORIES EPA (FT ²)
P1	LSS50D	4B	3 (3)	5.4

DESIGN NOTES

 $\frac{\text{DESIGN PARAMETERS:}}{\text{WIND: V}_{\text{ult}} = 170 \text{ MPH, V}_{\text{asd}} = 132 \text{ MPH (EXPOSURE C, RISK CATEGORY II)}$ PER FBC, 2023 EDITION (ASCE 7-22), SECTION 1609

DESIGN WIND PARAMETERS ARE AS NOTED, ACTUAL EXPOSURE MUST BE VERIFIED FOR THE SITE BY THE PROPER GOVERNING OFFICIAL.

GEOTECHNICAL PARAMETERS:

ALLOWABLE END BEARING SOIL PRESSURE: 2,000 PSF OR SKIN FRICTION: 367 PSF ALLOWABLE LATERAL SOIL BEARING PRESSURE:

150 PSF/FT (GRADE TO -2'-0"); 300 PSF/FT (BELOW -2'-0") IN ACCORDANCE WITH THE 2023 EDITION OF THE FLORIDA BUILDING CODE, CHAPTER 18. SEE TABLE 1806.2. SOIL MATERIAL CLASS 4 & SECTION 1806.3.4.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE.

A GEOTECHNICAL ENGINEER OR REPRESENTATIVE OF IS RECOMMENDED (NOT REQUIRED) TO BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST. IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY. REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS DIRECTED BY A REGISTERED ENGINEER.

ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION.

CONTRACTOR MUST BE FAMILIAR WITH THE COMPLETE SOIL INVESTIGATION REPORT AND BORINGS, AND CONTACT THE GEOTECHNICAL FIRM (IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING DURING PRECAST BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

OUTSIDE

DIAMETER

15.75"

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. 3,000 PSI CONCRETE SPECIFIED FOR EARLY POLE ERECTION, ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 1,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.

FIXTURES MUST BE LOCATED TO MAINTAIN 10'-0" MINIMUM HORIZONTAL CLEARANCE FROM ANY OBSTRUCTION. ENGINEER MUST BE NOTIFIED IF FOUNDATIONS ARE NEAR ANY RETAINING WALLS OR WITHIN / NEAR ANY SLOPES STEEPER THAN 3H: 1V. POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY KYLE G. LACINA ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KYLE G. LACINA - NO. PE 62692 LICENSE RENEWAL DATE: FEBRUARY 28, 2027

STRUCTURAL ENGINEERS, P.C. - NO. 26361

DRAWING NO. COVERED BY THIS SEAL: C1

正 EBALL LED FIELD LIGHTING MARCE BASE BOB

ROYAL PALM BEACH,

 \circ 50158 2-6334 .BIZ σ. ENGINEERS, F
114 NICHOLAS DRIVE
MARSHALLTOWN, IOWA 501
PHONE NUMBER: 641-752-63
EMAIL: MSL.INFO@SEPC.BIZ

AND POLE,

ST

PROJECT NUMBER 233975

13 MARCH 2025

DRAWING NUMBER

C₁

OF ONE

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