

- To: Prospective Bidders
- From: Shannon McIntyre City of Mobile Architectural Engineering Department Brock Jones, P.E. Kimley-Horn and Associates
- RE: Medal of Honor Site and Lighting Improvements

Project #PR-001-23

Date: April 23, 2024

This Addendum forms a part of, and modifies, the Bid Documents for the above referenced project, dated March 25, 2024. Acknowledge the receipt of this Addendum No. 3 in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

RFI's:

- Question 1: Is the Contractor responsible for the foundation of the owner furnished softball field lighting for fields C & D.
- **Response:** Yes, the Contractor will be responsible for installation of the foundation and coordinating installation with MUSCO. If you have any questions pertaining to the lighting please contact Gaines Todd at (334)-313-2176. See attached for additional information for the lighting foundation design.

ATTACHMENTS

ATTACHMENT 1 – MUSCO Lighting Design

END OF ADDENDUM NO. 3

Medal Of Honor Park Softball Fields 3 And 4 Mobile,AL

Lighting System

Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A5-A6	60'	60'	3	TLC-LED-900	2.64 kW	D
		16'	1	TLC-BT-575	0.57 kW	D
A7-A8	60'	60'	3	TLC-LED-900	2.64 kW	E
		16'	1	TLC-BT-575	0.57 kW	E
B5-B6	60'	60'	6	TLC-LED-1200	7.02 kW	D
		16'	1	TLC-BT-575	0.57 kW	D
B7-B8	60'	60'	6	TLC-LED-1200	7.02 kW	E
		16'	1	TLC-BT-575	0.57 kW	E
C5-C6	60'	60'	4	TLC-LED-1200	4.68 kW	D
		16'	1	TLC-RGB-U	0.43 kW	D
		16'	2	TLC-BT-575	1.15 kW	D
C7-C8	60'	60'	4	TLC-LED-1200	4.68 kW	E
		16'	1	TLC-RGB-U	0.43 kW	E
		16'	2	TLC-BT-575	1.15 kW	E
12			72		68.28 kW	

Circuit Sumn	nary		
Circuit	Description	Load	Fixture Qty
D	Field 3	34.14 kW	36
E	Field 4	34.14 kW	36

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	16
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	40
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	12
TLC-RGB-U	RED-GREEN (Shown)-BLUE	430W	16,000	21,300	>36,300	>36,300	4

Single Luminaire Amperage	Draw (Chart					
Driver Specifications		Lin	ie Ampe	rage Pei	r Lumina	ire	
(.90 min power factor)			(r	max drav	N)		
Cingle Phase Veltage	208	220	240	277	347	380	480
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-RGB-U	3.0	2.8	2.6	2.2	1.8	1.3	1.3

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric			Illumina	tion		Circuits	Fixture
Ghu Walle	Calculation Metric	Ave	Min	Max	Max/Min	Ave/Min	circuits	Qty
Field 3 (Infield)	Horizontal Illuminance	51.33	34	60	1.77	1.52	D	36
Field 3 (Outfield)	Horizontal Illuminance	32.92	21	48	2.27	1.54	D	36
Field 4 (Infield)	Horizontal Illuminance	50.62	33	61	1.84	1.52	E	36
Field 4 (Outfield)	Horizontal Illuminance	33.02	20	48	2.44	1.66	E	36



From Hometown to Professional



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PROJECT SUMMARY

Equi	ipment Lis	st For	Areas S	Shown				
	Pole	5			Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A7-A8	60'	-	60'	TLC-LED-900	3	3	0
		15.5'		15.5'	TLC-BT-575	1	1	0
2	B7-B8	60'			TLC-LED-1200	6	6	0
				15.5'	TLC-BT-575	1	1	0
2	C7-C8	60'	-	60'	TLC-LED-1200	4	4	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	1	0
6				Totals		36	36	0

*Above Grade level relative to the field

							35								1				
		25	33	37	41	37	40	46	44	38	42	49	.56	.54	.52	.48	Com Se		
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*	25	45	46	41	35	35	38	37	36	40	44	50	49	50	55	58	a ¥		E.
	25	44	39	35	36	38	38	35	33	33	35	40	43	49	56	56	47 A7	13	
	22	38	36	38	38	36	35	.31	28	27	29	33	40	49	51	48		2	1.35
itte	t,	28	41	37	35	31	28	26	24	23	24	28	34	43	47	39	A.S.		
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				20	25	27	25	27	28	29	32	37	39	37	39	36	HI DRE	A	
	Part Provide State				21	25	28	29	32	32	36	39	37	33	34	37			
4						20	27	31	34	35	38	37	31	33	37	38			
The second se								29	37	38	40	33	32	40	41	37			
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A8

o' 50' 100' ENGINEERED DESIGN By: William Isiminger • File #200860C • 05-Apr-24

SCALE IN FEET 1:50

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

Medal Of Honor Park Softball Fields 3 And 4 Mobile,AL

Grid Summary

Name Field 4 Size 300'/300'/300' - basepath 60' Spacing 20.0' x 20.0' Height 3.0' above grade

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Illumination Summa	ry	
		MAINTAINED HORIZONTAL FOOTCANDLES
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.62	33.02
Maximum	61	48
Minimum	33	20
Avg/Min	1.52	1.66
Guaranteed Max/Min	2	2.5
Max/Min	1.84	2.44
UG (adjacent pts)	1.23	1.81
CU	0.73	
No. of Points	25	181
LUMINAIRE INFORMATION		
Applied Circuits	E	
No. of Luminaires	36	
Total Load	34.14 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.



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pment Lis	st For <i>i</i>	Areas S	Shown				
Pole	•			Luminaires			
LOCATION	A6 60' - 60' TLC-LED-900 15.5' TLC-BT-575	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS		
A5-A6	60'			TLC-LED-900	3	3	0
			15.5'	TLC-BT-575	1	1	0
B5-B6	60'	-	60'	TLC-LED-1200	6	6	0
			15.5'	TLC-BT-575	1	1	0
C5-C6	60'	-	60'	TLC-LED-1200	4	4	0
			15.5'	TLC-BT-575	2	2	0
			15.5'	TLC-RGB-U	1	1	0
Totals			36	36	0		
	Pole LOCATION A5-A6 B5-B6	Pole LOCATION SIZE A5-A6 60' B5-B6 60'	Pole LOCATION SIZE GRADE ELEVATION A5-A6 60' - B5-B6 60' -	LOCATION SIZE GRADE ELEVATION ABOVE GRADE LEVEL A5-A6 60' - 60' B5-B6 60' - 60' C5-C6 60' - 60' LEVEL - 60' - C5-C6 60' - 60' LEVEL - 60' - LEVEL - 60' - LEVEL - 60' - LEVEL - 60' - LEVEL - 55' -	Pole Luminaires LOCATION SIZE GRADE ELEVATION ABOVE GRADE LEVEL LUMINAIRE TYPE A5-A6 60' - 60' TLC-LED-900 B5-B6 60' - 60' TLC-BT-575 B5-B6 60' - 60' TLC-LED-1200 C5-C6 60' - 60' TLC-BT-575 C5-C6 60' - 60' TLC-LED-1200 15.5' TLC-BT-575 15.5' TLC-BT-575	Pole Luminaires LOCATION SIZE	Pole Luminaires LOCATION SIZE GRADE ELEVATION ABOVE GRADE LEVEL LUMINAIRE TYPE QTY/POLE THIS GRID A5-A6 60' - 60' TLC-LED-900 3 3 B5-B6 60' - 60' TLC-BT-575 1 1 B5-B6 60' - 60' TLC-BT-575 1 1 C5-C6 60' - 60' TLC-BT-575 2 2 LOC-C6 60' - 50' TLC-BT-575 1 1 C5-C6 60' - 60' TLC-BT-575 2 2 LOC-C6 50' - 15.5' TLC-BT-575 2 2

Above Grad	de level re	elative to	the field
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SCALE IN FEET 1:50

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

Medal Of Honor Park Softball Fields 3 And 4 Mobile,AL

Grid Summary

Name Field 3 Size 300'/300'/300' - basepath 60' Spacing 20.0' x 20.0' Height 3.0' above grade

Illumination Summary							
		MAINTAINED HORIZONTAL FOOTCANDLES					
	Infield	Outfield					
Guaranteed Average	50	30					
Scan Average	51.33	32.92					
Maximum	60	48					
Minimum	34	21					
Avg/Min	1.52	1.54					
Guaranteed Max/Min	2	2.5					
Max/Min	1.77	2.27					
UG (adjacent pts)	1.23	1.63					
CU	0.73						
No. of Points	25	181					
LUMINAIRE INFORMATION							
Applied Circuits	D						
No. of Luminaires	36						
Total Load	34.14 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.



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0' 100' 200' ENGINEERED DESIGN By: William Isiminger • File #200860C • 05-Apr-24

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

Medal Of Honor Park Softball Fields 3 And 4 Mobile,AL

Equipment Layout

INCLUDES: · Field 3 · Field 4

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.

Eq	Equipment List For Areas Shown									
Pole		Luminaires								
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE				
4	A5-A8	60'	-	60'	TLC-LED-900	3				
				15.5'	TLC-BT-575	1				
4	B5-B8	60'	-	60'	TLC-LED-1200	6				
				15.5'	TLC-BT-575	1				
4	C5-C8	60'	-	60'	TLC-LED-1200	4				
				15.5'	TLC-BT-575	2				
				15.5'	TLC-RGB-U	1				
12 Totals					72					

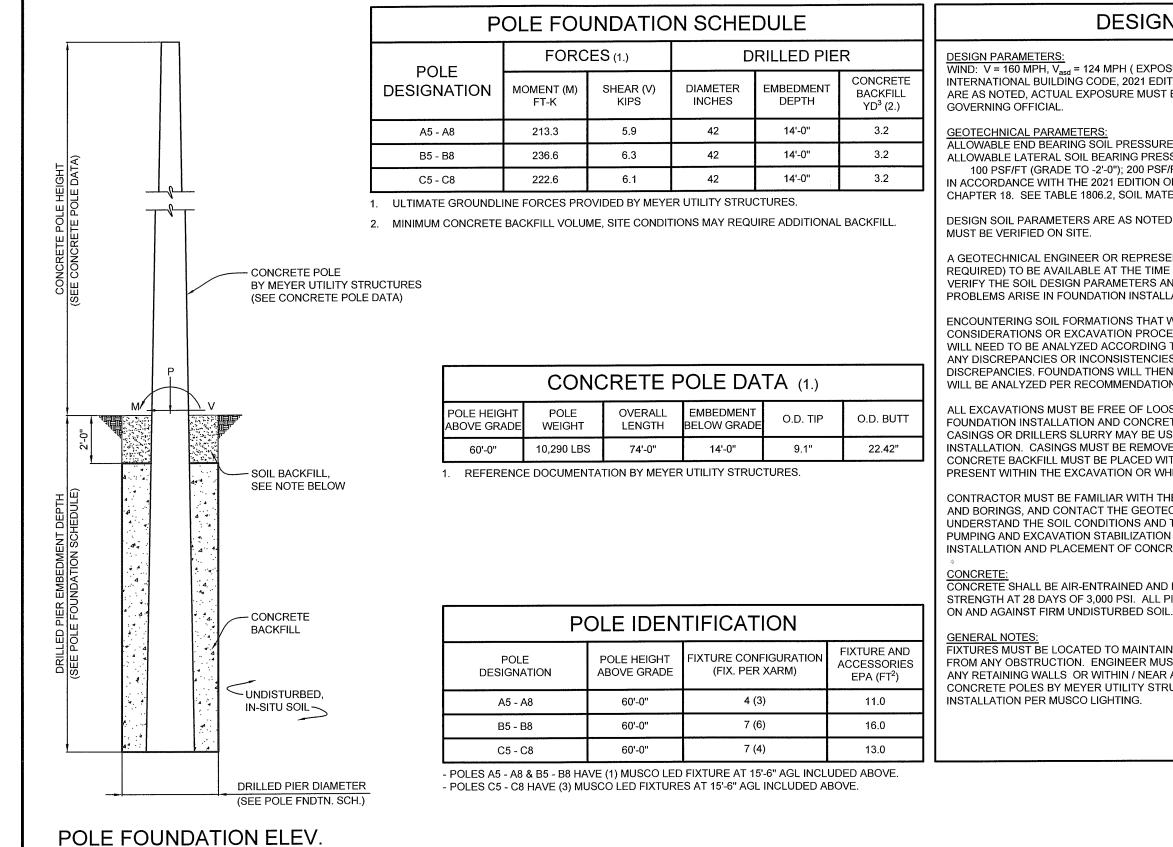
Single Luminaire Amperage Draw Chart										
Driver Specifications	Line Amperage Per Luminaire									
(.90 min power factor)	(max draw)									
Single Phase Voltage	208	220	240	277	347	380	480			
	(60)	(60)	(60)	(60)	(60)	(60)	(60)			
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5			
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0			
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3			
TLC-RGB-U	3.0	2.8	2.6	2.2	1.8	1.3	1.3			



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EQUIPMENT LAYOUT



DESIGN PARAMETERS:

WIND: V = 160 MPH, V_{asd} = 124 MPH (EXPOSURE C, RISK CATEGORY II) PER INTERNATIONAL BUILDING CODE, 2021 EDITION (ASCE 7-16). 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: 1,500 PSF OR SKIN FRICTION: 250 PSF ALLOWABLE LATERAL SOIL BEARING PRESSURE: 100 PSF/FT (GRADE TO -2'-0"): 200 PSF/FT (BELOW -2'-0") IN ACCORDANCE WITH THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE, CHAPTER 18. SEE TABLE 1806.2, SOIL MATERIAL CLASS 5 & SECTION 1806.3.4.

USE OR REPRODUCTION OF THIS INFORMATION OTHER THAN ITS INTENDED PURPOSE FOR THIS PROJECT IS PROHIBITED WITHOUT WRITTEN CONSENT FROM MUSCO SPORTS LIGHTING, LLC.

GENERAL NOTES:

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. CONCRETE POLES BY MEYER UTILITY STRUCTURES, FIXTURES, ELECTRICAL ITEMS AND INSTALLATION PER MUSCO LIGHTING.

SCALE: NOT TO SCALE

SOIL BACKFILL NOTE:

THE TOP TWO FEET OF ANNULUS SHALL BE BACKFILLED WITH SOIL, WITH A CLASSIFICATION OF CLASS 5 (TABLE 1806.2) OR BETTER. COMPACTION, 95% FOR COHESIVE SOIL AND 98% FOR A COHESIONLESS SOIL BASED UPON STANDARD PROCTOR TESTING (ASTM D698).

DESIGN NOTES

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS

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 OR WHEN THE FREE DROP EXCEEDS 6'-0".

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 CONCRETE POLE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 3,000 PSI. ALL PIERS AND CONCRETE BACKFILL MUST BEAR



KYLE G. LACINA - NO. 26859

