



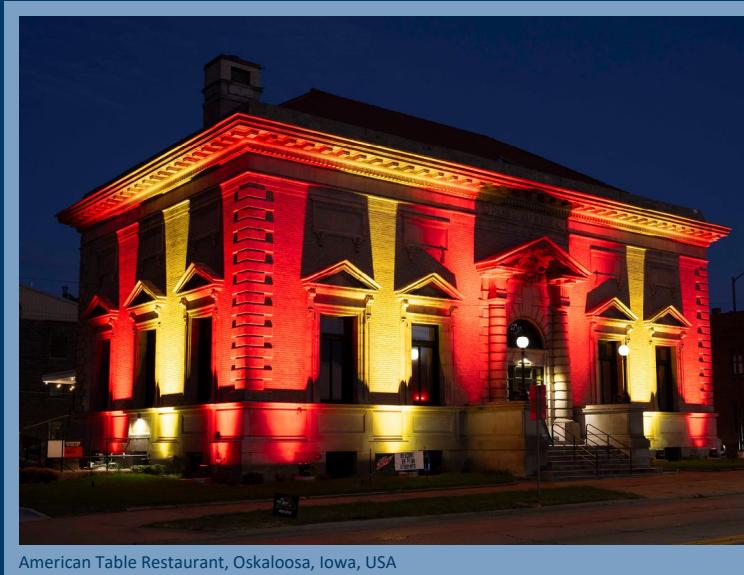
We Make It Happen®



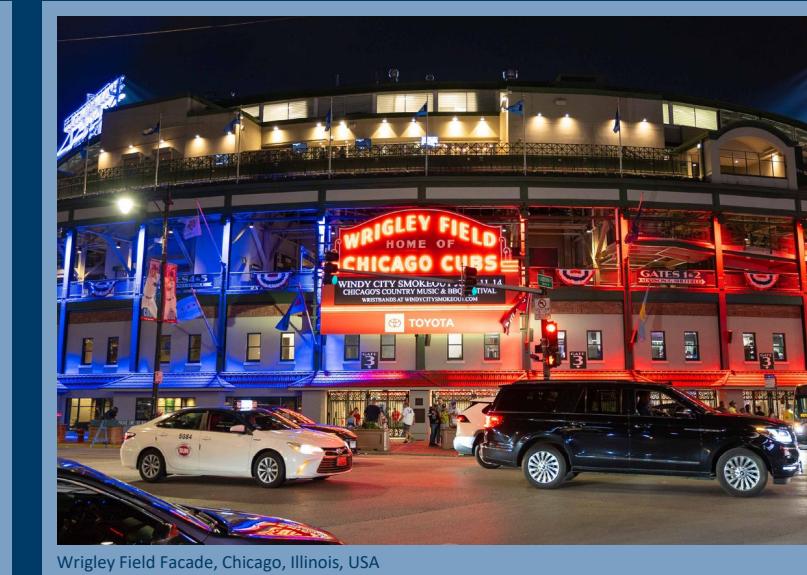
Iowa Women of Achievement Bridge, Des Moines, Iowa, USA



Greater Des Moines Botanical Garden, Des Moines, Iowa, USA



American Table Restaurant, Oskaloosa, Iowa, USA



Wrigley Field Facade, Chicago, Illinois, USA

217729A



Sales Representative: · Designed By: · Design No.: 217729C · December 17, 2025

## LIGHTING SYSTEM

## Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
M1-M4		-3'	1	TLC-RGBW	0.64 kW	A
4			4		<b>2.56 kW</b>	

## Circuit Summary

Circuit	Description	Load	Fixture Qty
A		2.56 kW	4

## Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-RGBW	A	LED 4500K - 75 CRI	640W	28,215	>120,000	>120,000	>120,000	4

## Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	2.5	1.9

## Light Level Summary

## Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Dam Center	Perpendicular	2.19	2	3	1.65	1.37	A	4
Dam West End	Perpendicular	2.12	1	3	2.16	1.65	A	4
-----	-----							
-----	-----							
Dam East End	Perpendicular	1.96	1	3	2.34	1.65	A	4
Mill And Dam	Horizontal Illuminance	0.00	0	0	-	-	A	4
Mill East Wall	Perpendicular	0.15	0	1	-	-	A	4
River Grid	Horizontal	1.77	0	15	-	-	A	4

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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

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



## Equipment List For Areas Shown

Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
4	M1-M4		-3'	-3'	TLC-RGBW	1	1	0
4					Totals	4	4	0

Above Field Level is height of fixtures above area shown

217729A

## Grid Summary

Name: River Grid  
Size: 20' x 20'  
Spacing: 10.0' x 10.0'  
Height: -23.0' above grade

## Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid  
Scan Average: 1.77  
Maximum: 15  
Minimum: 0  
Avg/Min: -  
Max/Min: -  
UG (adjacent pts): 138.75  
CU: 0.84  
No. of Points: 442

### Fixture Information

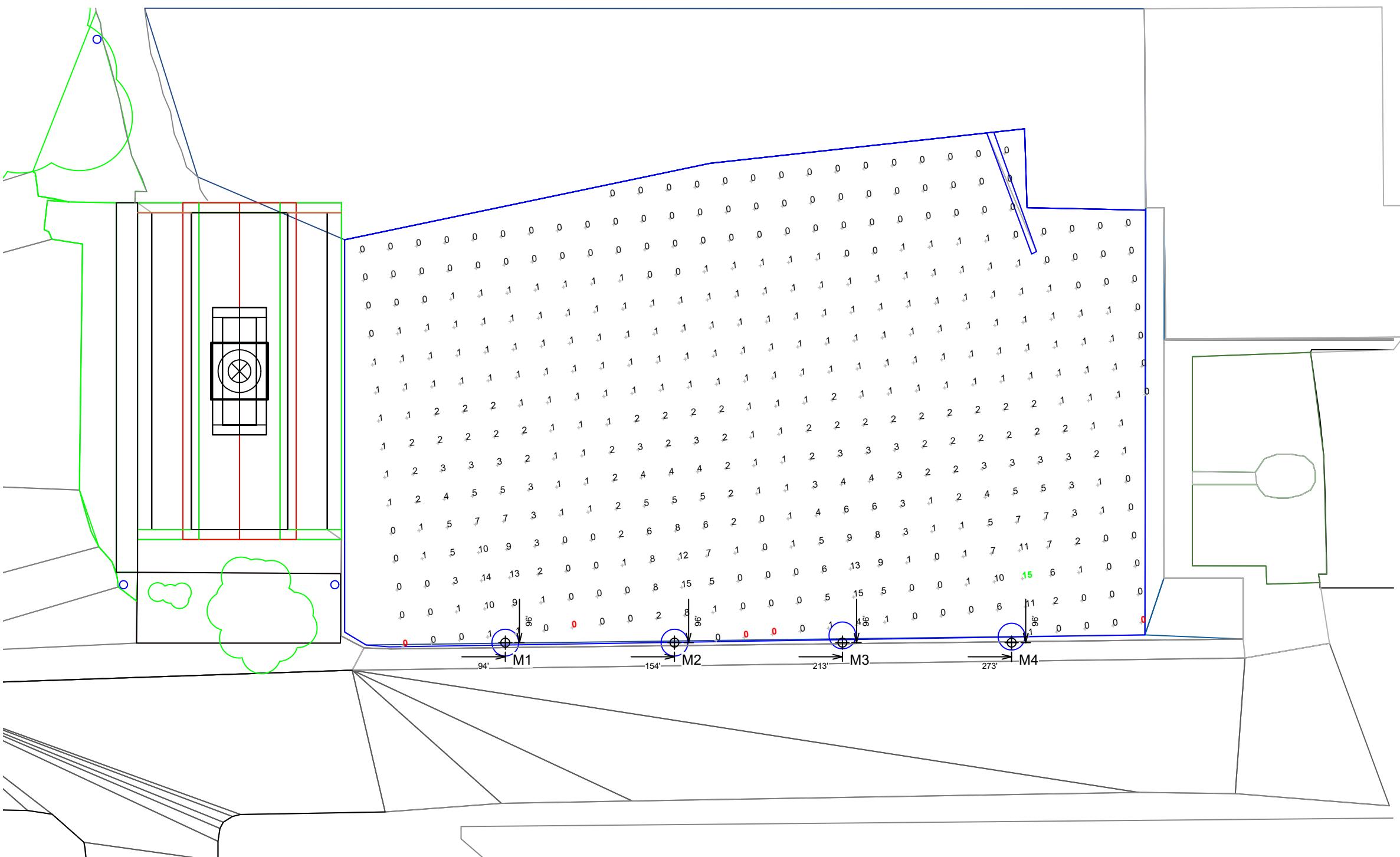
Applied Circuits: A  
No. of Fixtures: 4  
Total Load: 2.56 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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

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



Scale in feet 1 : 40  
Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$

SCALE IN FEET 1 : 40  
0' 40' 80'  
ENGINEERED DESIGN By: • File #217729C • 17-Dec-25

**MUSCO**  
We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
©1981, 2025 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

**Equipment List For Areas Shown**

Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
4	M1-M4		-3'	-3'	TLC-RGBW	1	1	0
4				Totals		4	4	0

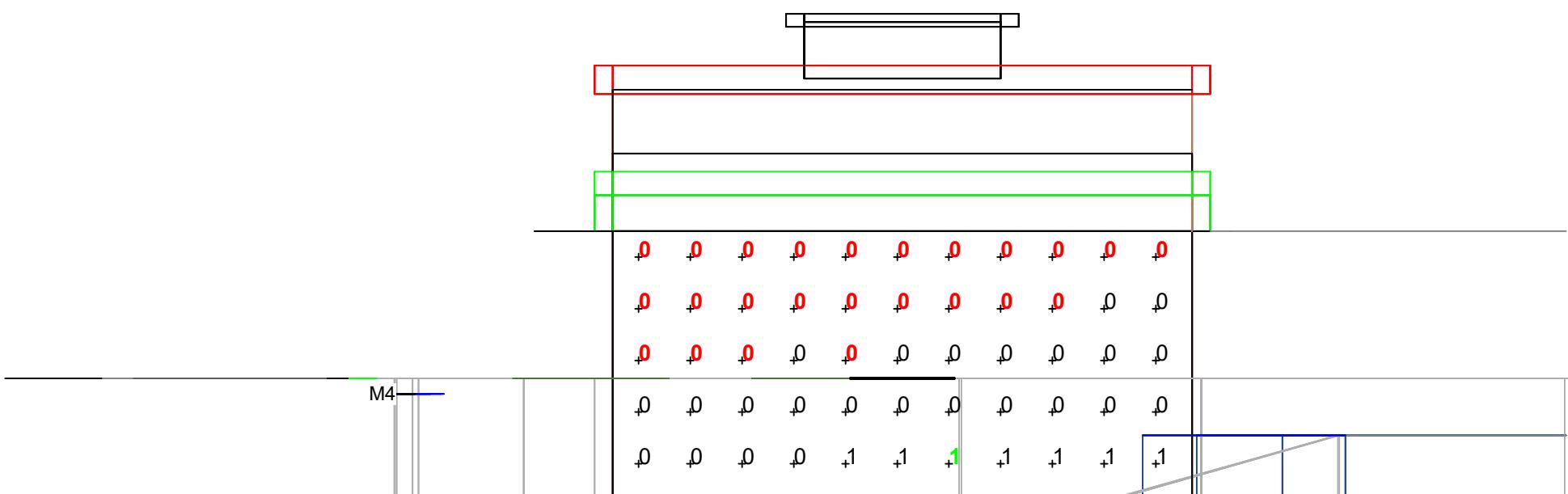
Above Field Level is height of fixtures above area shown

**217729A**
**Grid Summary**

Name: Mill East Wall
Spacing: 10.0' x 10.0'

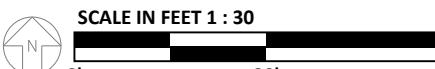
**Illumination Summary**

MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	0.15
Scan Average:	0.15
Maximum:	1
Minimum:	0
Avg/Min:	-
Max/Min:	-
UG (adjacent pts):	5059.18
CU:	0.01
No. of Points:	55
<b>Fixture Information</b>	
Applied Circuits:	A
<b>No. of Fixtures:</b>	4
Total Load:	2.56 kW

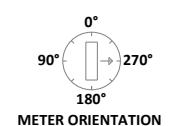

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

**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.


ENGINEERED DESIGN By: • File #217729C • 17-Dec-25



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

METER ORIENTATION

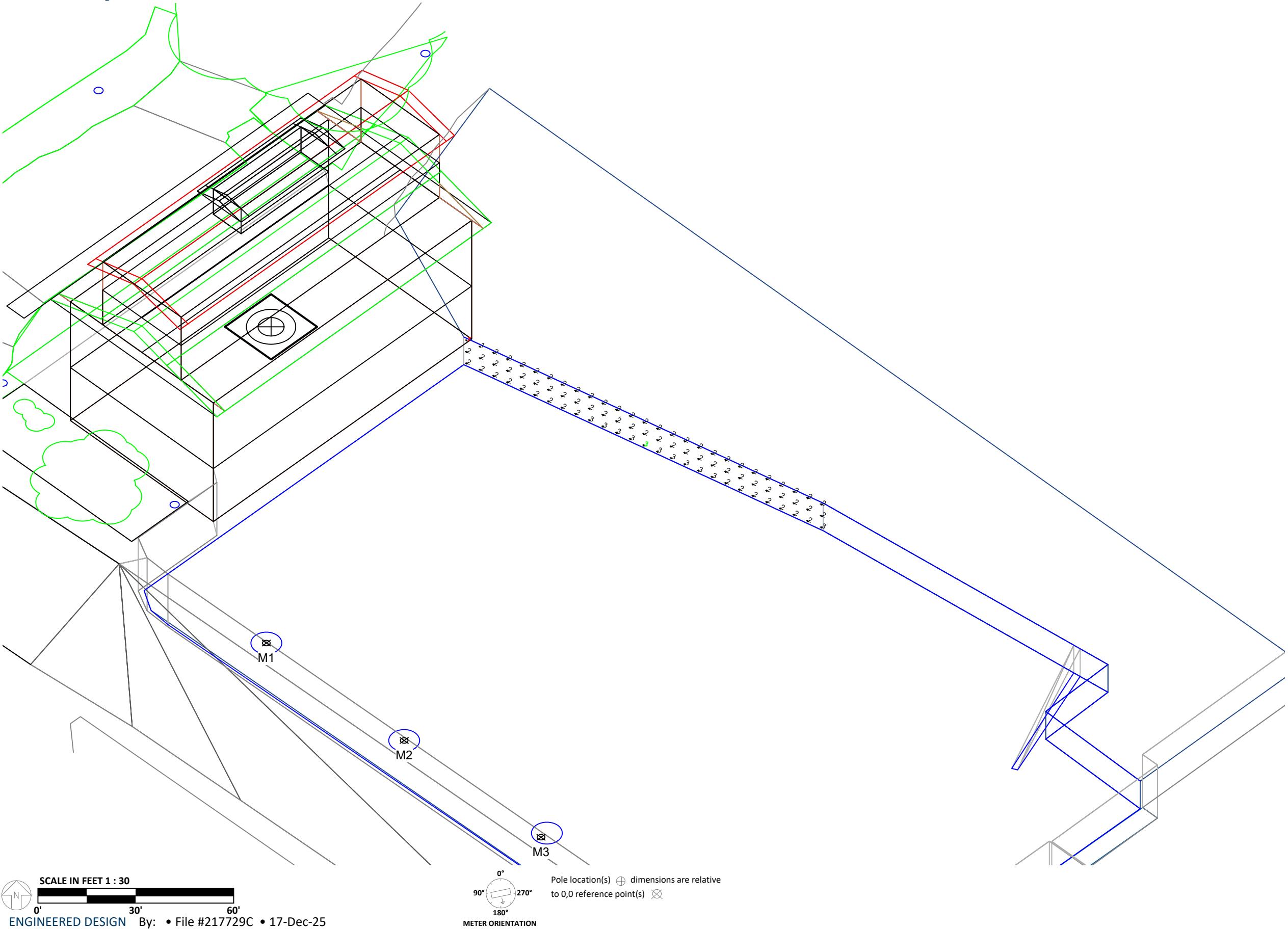

 Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
 ©1981, 2025 Musco Sports Lighting, LLC.

**ILLUMINATION SUMMARY**

**Equipment List For Areas Shown**

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
4	M1-M4		-3'	-3'	TLC-RGBW	1	1	0
4				Totals		4	4	0

Above Field Level is height of fixtures above area shown


**217729A**
**Grid Summary**

Name: Dam West End
Spacing: 5.0' x 5.0'

**Illumination Summary**

Entire Grid	
Scan Average:	2.12
Maximum:	3
Minimum:	1
Avg/Min:	1.65
Max/Min:	2.16
UG (adjacent pts):	1.26
CU:	0.05
No. of Points:	81
<b>Fixture Information</b>	
Applied Circuits:	A
No. of Fixtures:	4
Total Load:	2.56 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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

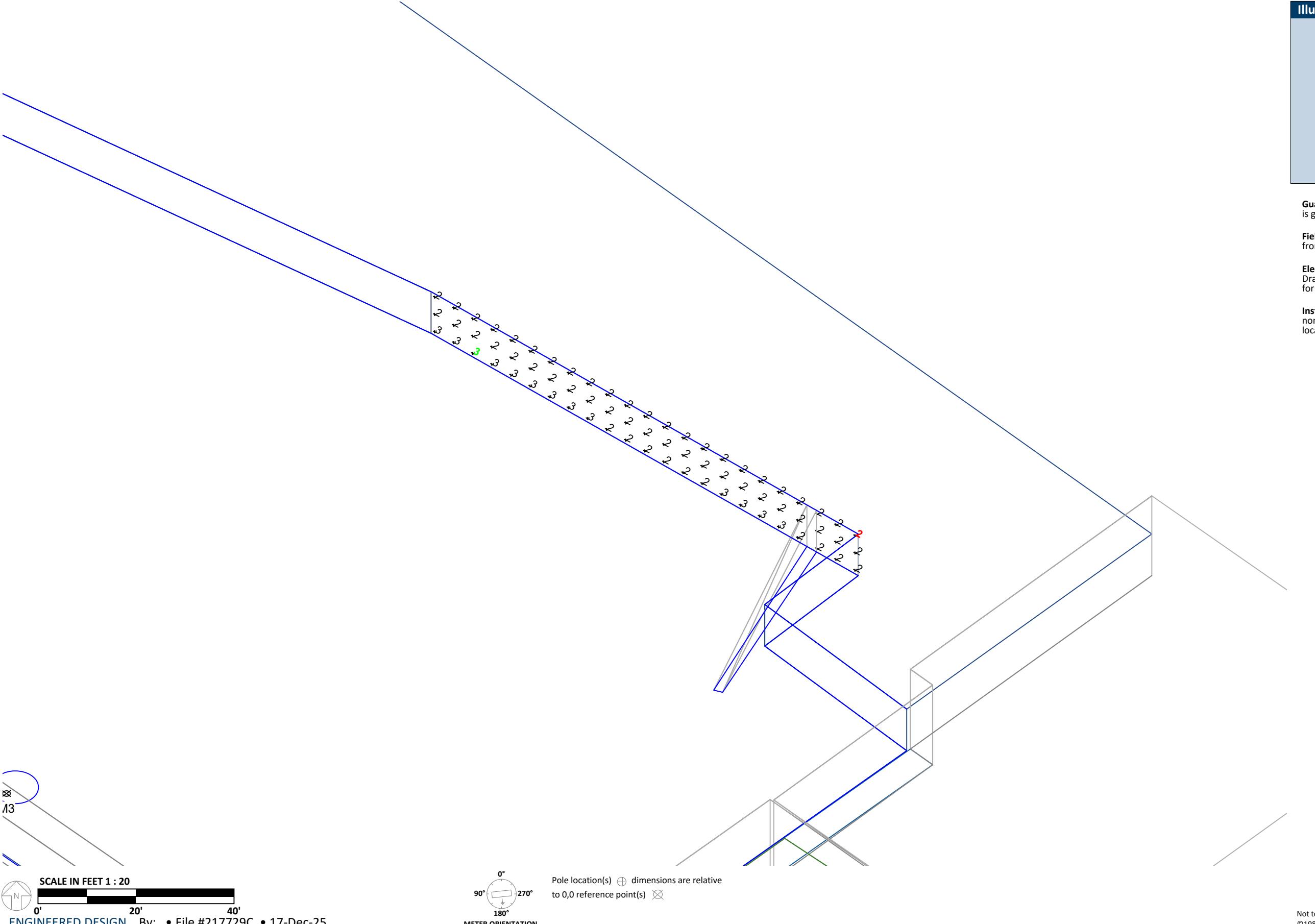
**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

 Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
 ©1981, 2025 Musco Sports Lighting, LLC.

**ILLUMINATION SUMMARY**

Equipment List For Areas Shown								
Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
4	M1-M4		-3'	-3'	TLC-RGBW	1	1	0
4				Totals		4	4	0

Above Field Level is height of fixtures above area shown



ENGINEERED DESIGN By: • File #217729C • 17-Dec-25

217729A

Grid Summary	
Name:	Dam Center
Spacing:	5.0' x 5.0'
Illumination Summary	
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	Scan Average: 2.19
Maximum:	3
Minimum:	2
Avg/Min:	1.37
Max/Min:	1.65
UG (adjacent pts):	1.22
CU:	0.04
No. of Points:	69
Fixture Information	
Applied Circuits:	A
No. of Fixtures:	4
Total Load:	2.56 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

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

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



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
©1981, 2025 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY

## Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
4	M1-M4		-3'	-3'	TLC-RGBW	1	1	0
4				Totals		4	4	0

Above Field Level is height of fixtures above area shown

217729A

## Grid Summary

Name: Dam East End	Size: 5.0' x 5.0'
--------------------	-------------------

## Illumination Summary

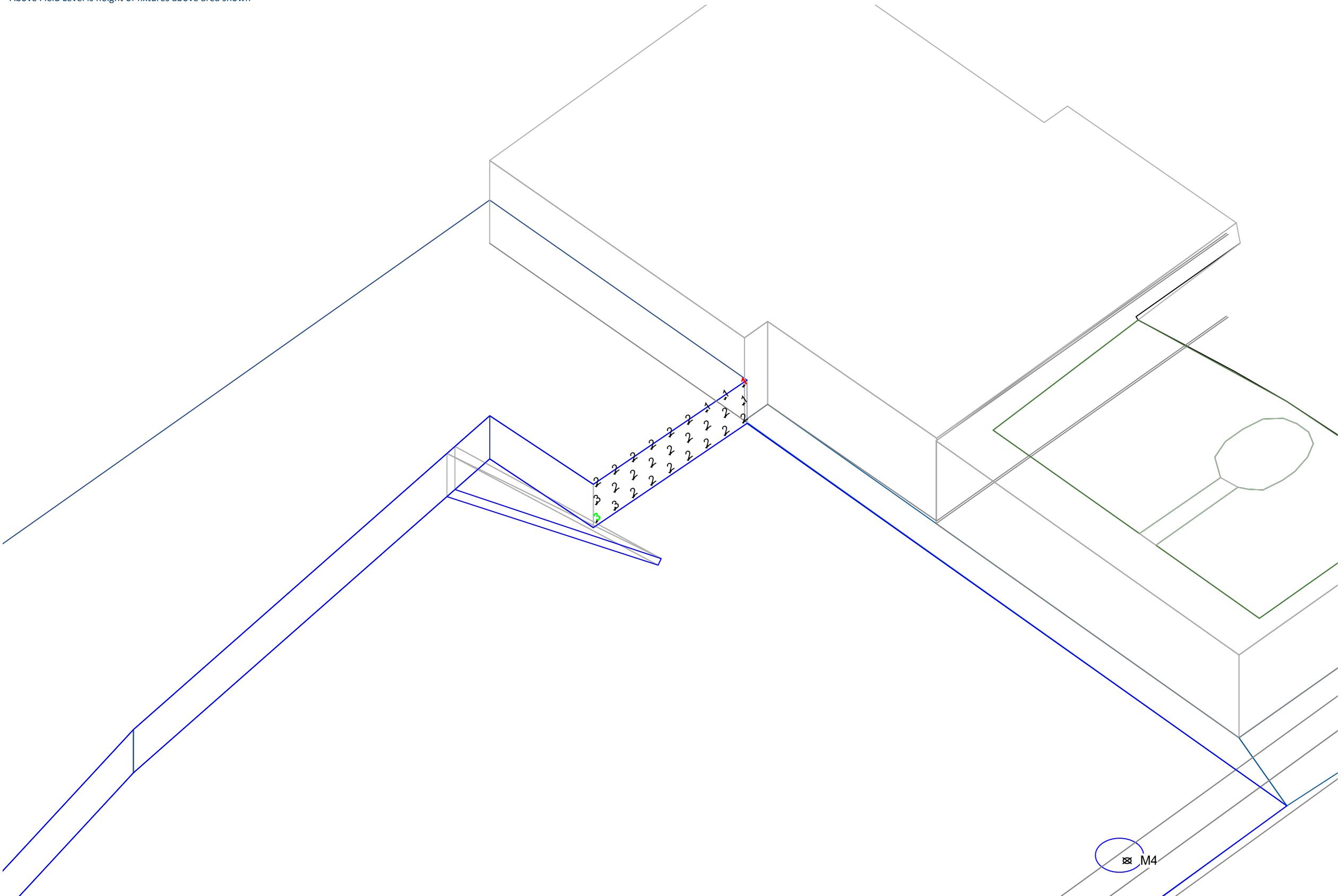
MAINTAINED VERTICAL FOOTCANDLES: 0° Tilt	
Entire Grid	Scan Average: 1.96
Maximum:	3
Minimum:	1
Avg/Min:	1.65
Max/Min:	2.34
UG (adjacent pts):	1.24
CU:	0.01
No. of Points:	27
Fixture Information	
Applied Circuits:	A
No. of Fixtures:	4
Total Load:	2.56 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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

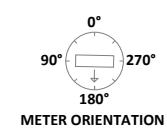
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



SCALE IN FEET 1 : 20  
0' 20' 40'

ENGINEERED DESIGN By: • File #217729C • 17-Dec-25

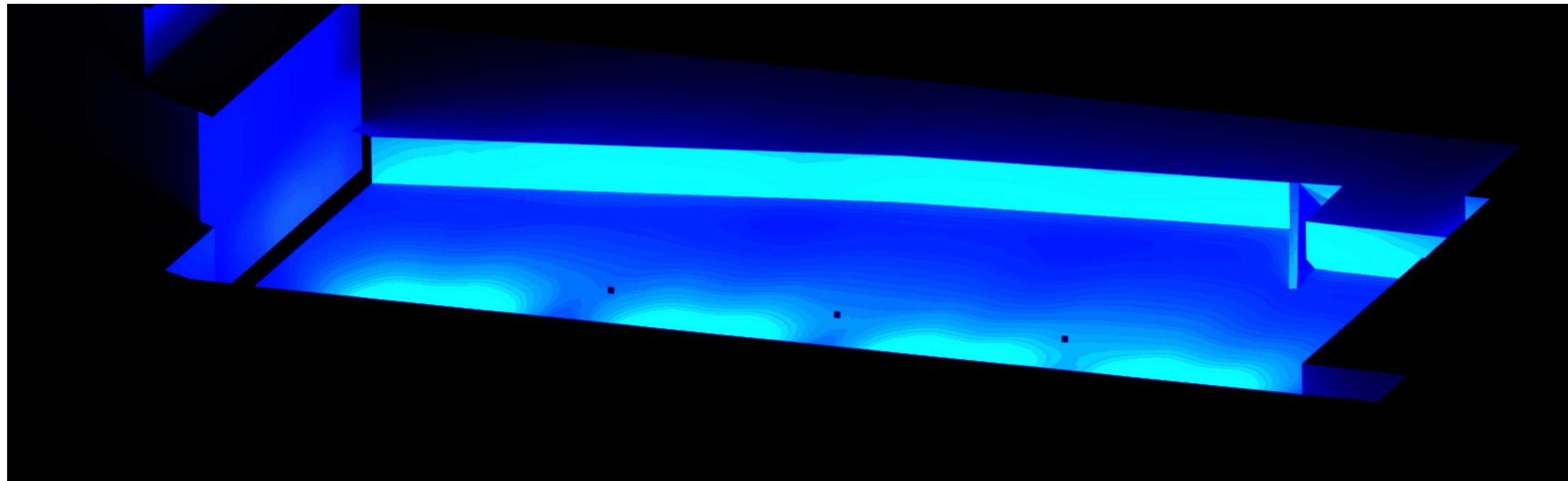
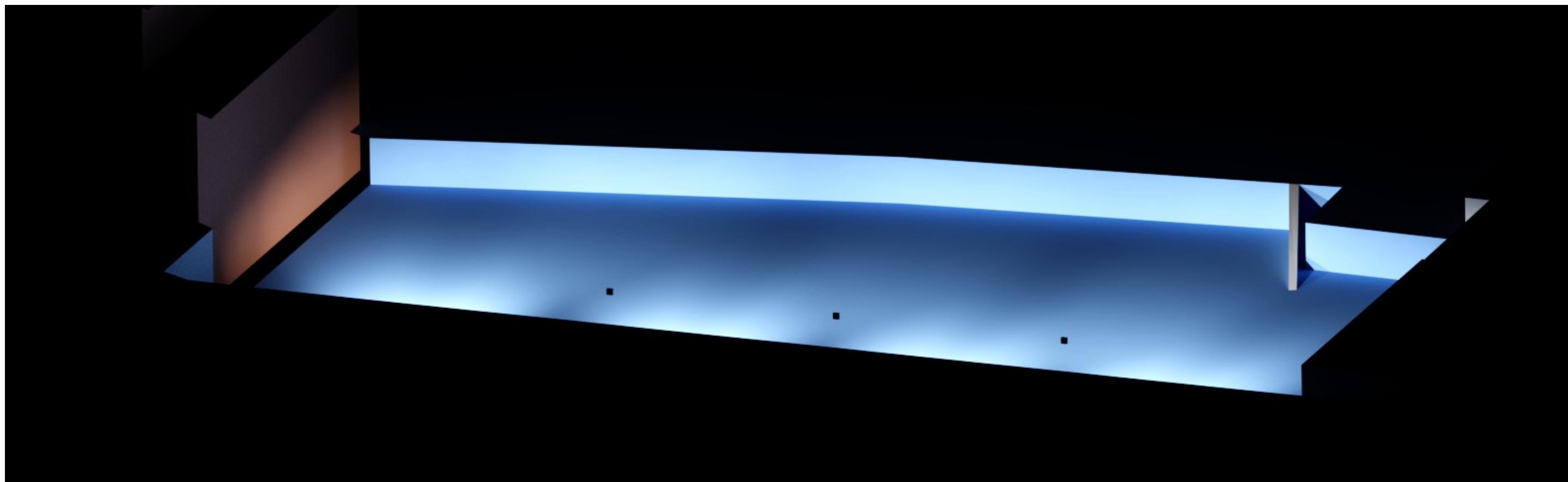


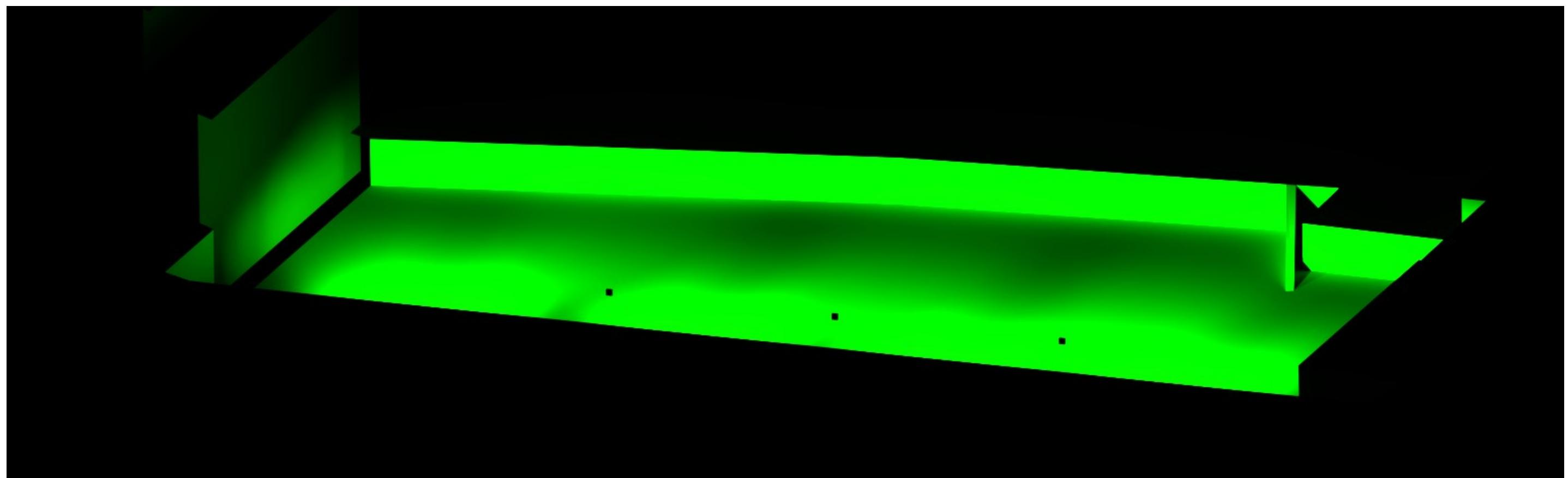
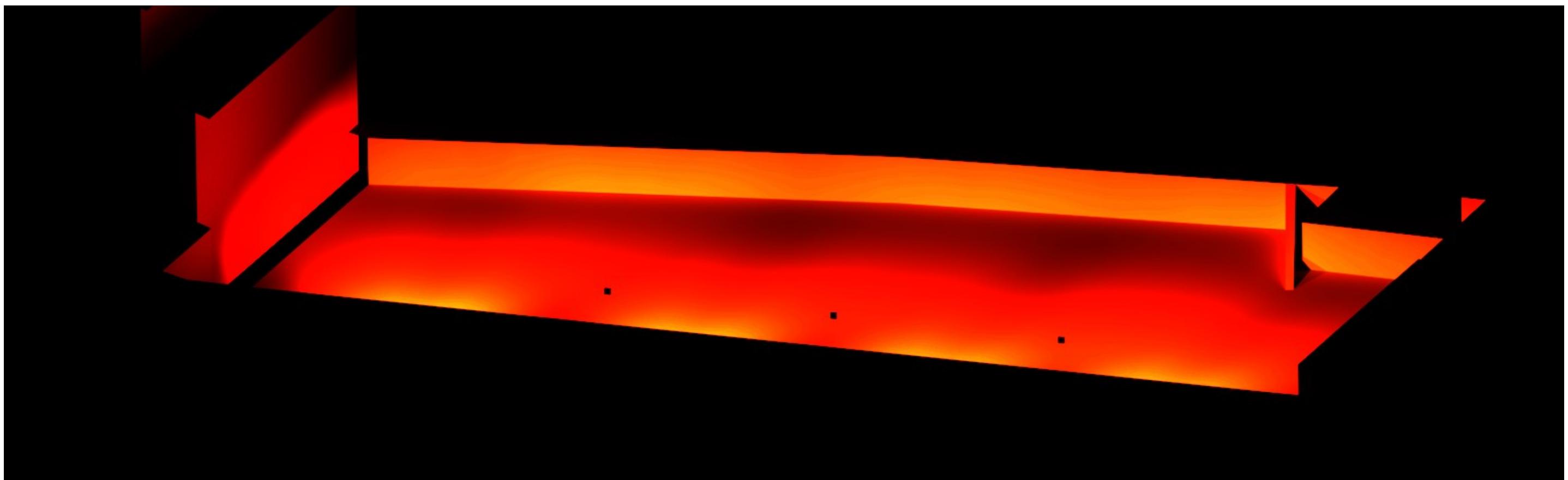
Pole location(s) dimensions are relative to 0,0 reference point(s)

**MUSCO**  
We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
©1981, 2025 Musco Sports Lighting, LLC.

ILLUMINATION SUMMARY





## Equipment Layout

**INCLUDES:**  
- Mill And Dam

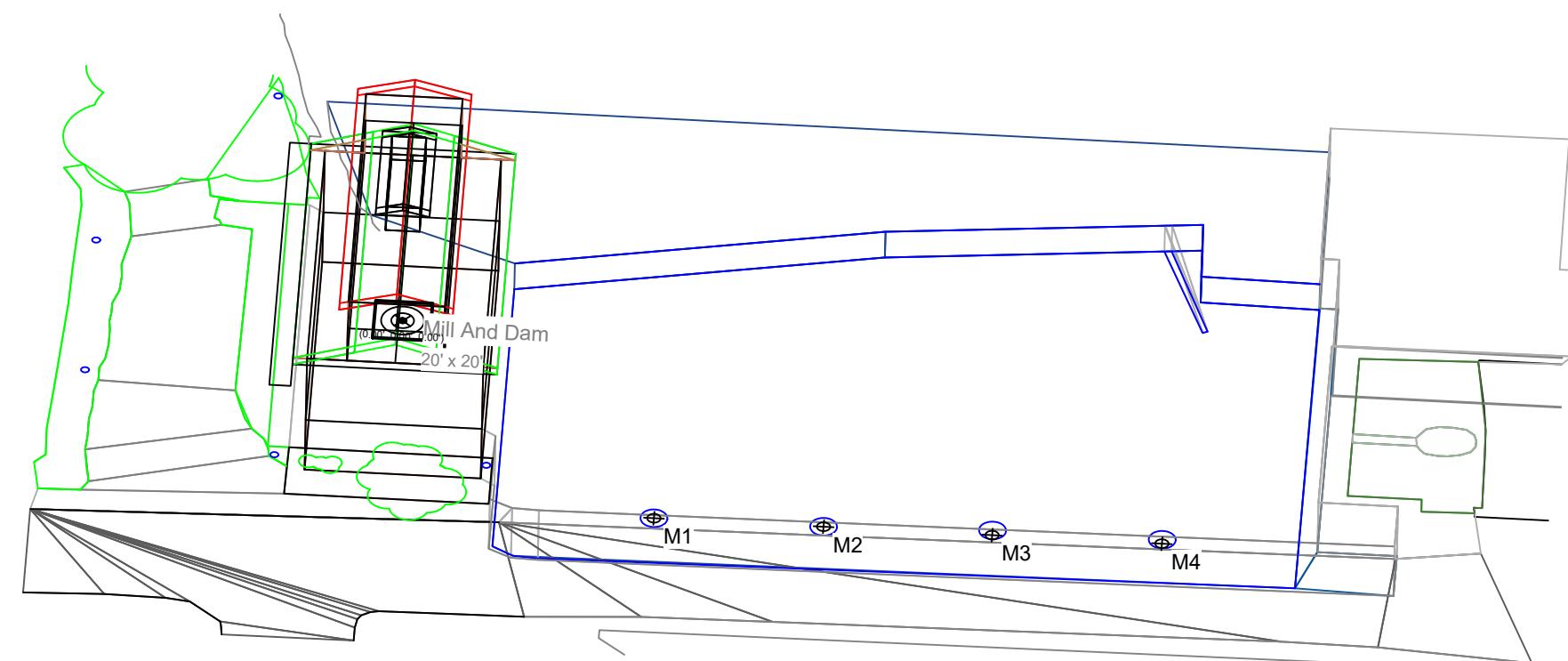
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

## Equipment List For Areas Shown

QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	Structure		Fixtures	
				ABOVE GLOBAL LEVEL	Fixture Type	QTY/POLE	
4	M1-M4		-3'	-3'	TLC-RGBW	1	
4		Totals				4	

Above Global Level is height of fixtures above design (0,0,0)



## Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	2.5	1.9

SCALE IN FEET 1 : 60  
0' 60' 120'  
N

ENGINEERED DESIGN By: • File #217729C • 17-Dec-25

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

**MUSCO**  
We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC.  
©1981, 2025 Musco Sports Lighting, LLC.

EQUIPMENT LAYOUT