

PROJECT NAME (EDIT)

PROJECT LOCATION (EDIT)

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	60'	60'	2	TLC-LED-900	1.78 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
B1-B2	70'	70'	3	TLC-LED-1200	3.51 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
4			14		12.88 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Softball	12.88 kW	14

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>81,000	>81,000	>81,000	6
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>81,000	>81,000	>81,000	4
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>81,000	>81,000	>81,000	4

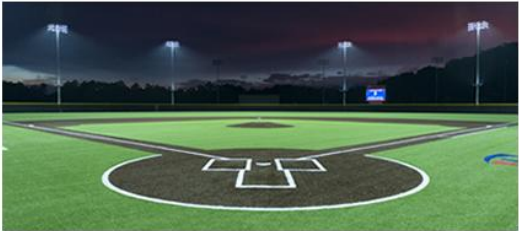
Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Softball (Infield)	Horizontal Illuminance	30.4	22.9	44.7	1.95	1.33	A	14
Softball (Outfield)	Horizontal Illuminance	20.3	12.6	27.5	2.18	1.61	A	14
Spill/Glare - 150' Offset	Horizontal Illuminance	0.01	0	0.03	47769.19		A,B	14
Spill/Glare - 150' Offset	Max Candela (by Fixture)	1467	0.73	6453	8841.52	2009.79	A,B	14
Spill/Glare - 150' Offset	Max Vertical Illuminance Metric	0.03	0	0.09	14992.71		A,B	14

PROJECT NAME

PROJECT LOCATION

From Hometown to Professional

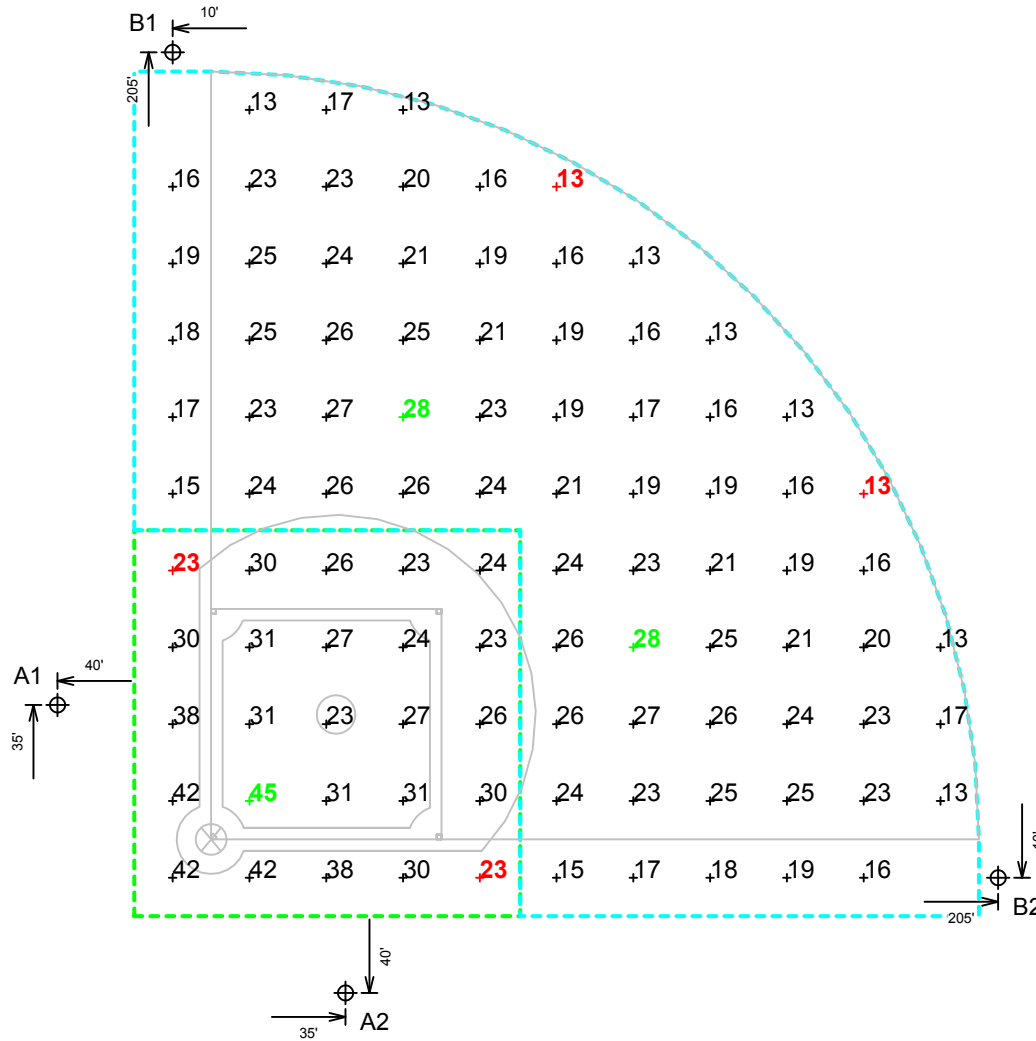


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EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
4	TOTALS					14	14	0



PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: Softball
Size: 200'/200'/200' - basepath 60'
Spacing: 20.0' x 20.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Infield	Outfield
Guaranteed Average:	30	20
Scan Average:	30.38	20.25
Maximum:	44.7	27.5
Minimum:	22.9	12.6
Avg / Min:	1.32	1.60
Guaranteed Max / Min:	2.5	3
Max / Min:	1.95	2.18
UG (adjacent pts):	1.45	1.71
CU:	0.65	
No. of Points:	25	71

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 136,000 / 89,600 / 52,000 lumens
No. of Luminaires: 14
Total Load: 12.88 kW

Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1200	>81,000	>81,000	>81,000
TLC-LED-900	>81,000	>81,000	>81,000
TLC-BT-575	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

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

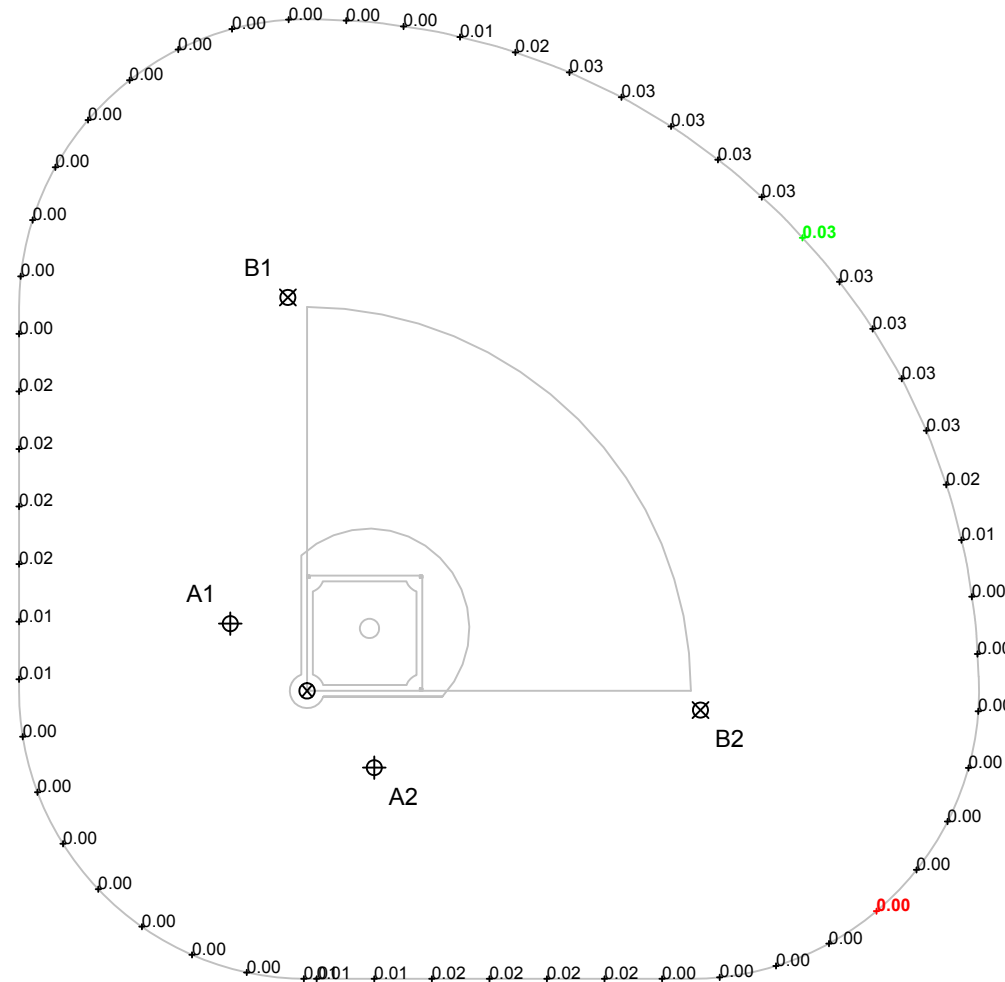


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
4	TOTALS					14	14	0



PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: Spill/Glare - 150' Offset
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

Scan Average: Entire Grid
0.0100
Maximum: 0.030
Minimum: 0.000
No. of Points: 56

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 136,000 / 89,600 / 52,000 lumens
No. of Luminaires: 14
Total Load: 12.88 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1200	>81,000	>81,000	>81,000
TLC-LED-900	>81,000	>81,000	>81,000
TLC-BT-575	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

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

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

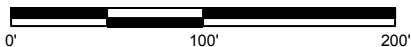


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ILLUMINATION SUMMARY

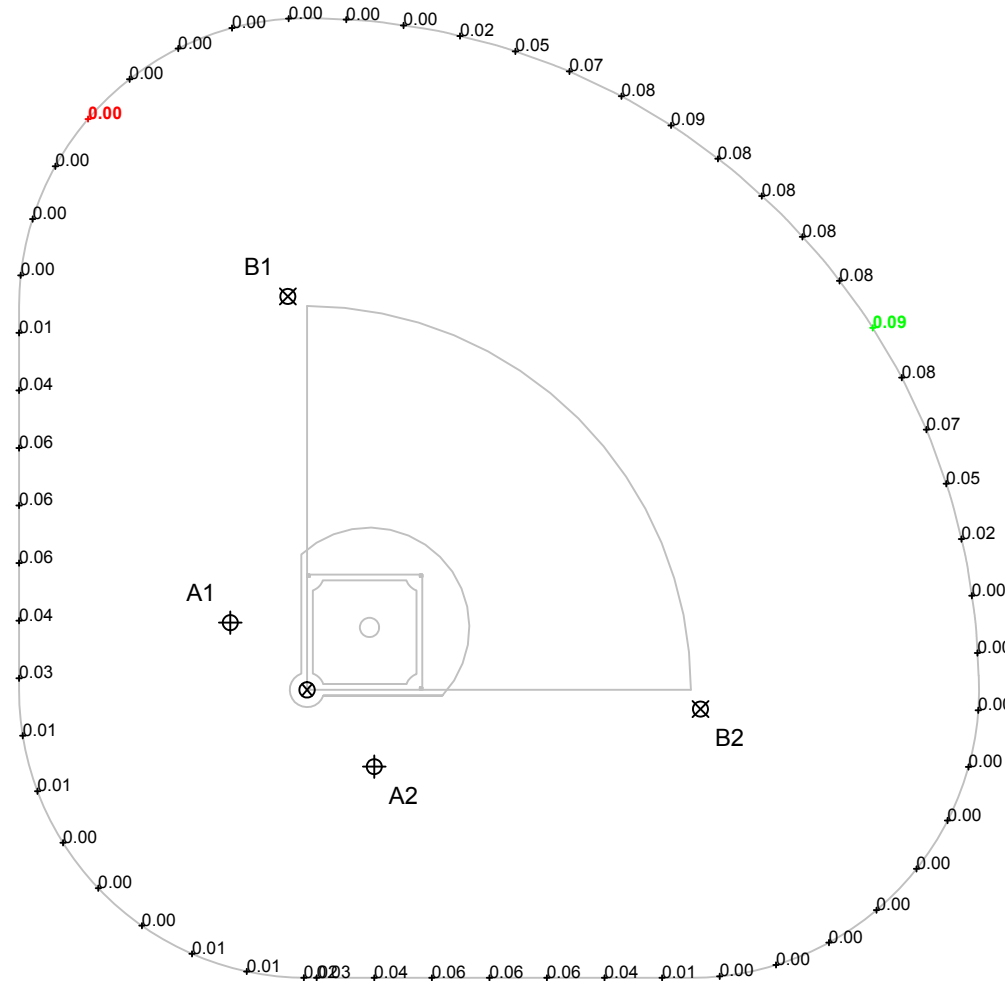
SCALE IN FEET 1 : 100



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

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
4	TOTALS					14	14	0



PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: Spill/Glare - 150' Offset
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAX VERTICAL FOOTCANDLES

Entire Grid

Scan Average: 0.0288

Maximum: 0.088

Minimum: 0.000

No. of Points: 56

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI

Luminaire Output: 136,000 / 89,600 / 52,000 lumens

No. of Luminaires: 14

Total Load: 12.88 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1200	>81,000	>81,000	>81,000
TLC-LED-900	>81,000	>81,000	>81,000
TLC-BT-575	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

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

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

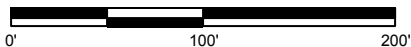


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ILLUMINATION SUMMARY

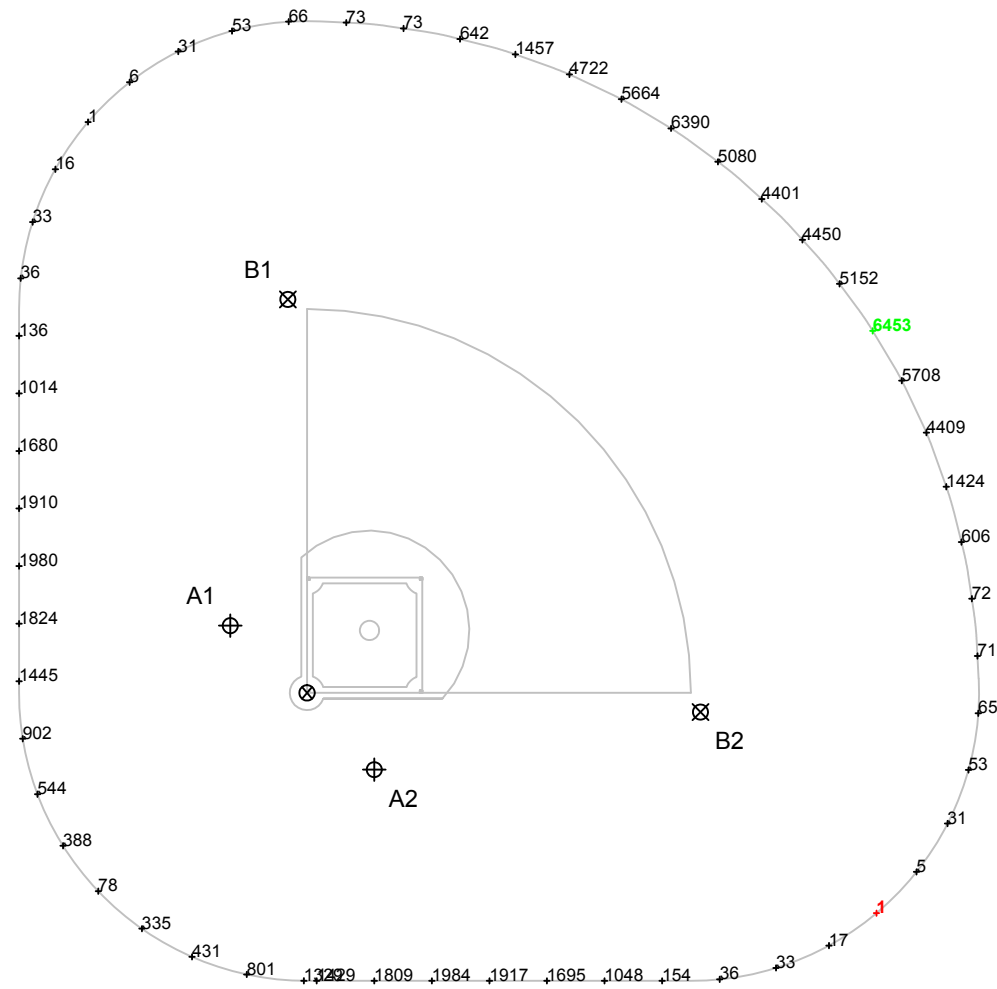
SCALE IN FEET 1 : 100



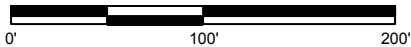
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	3	3	0
4	TOTALS					14	14	0



SCALE IN FEET 1 : 100



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

ENGINEERED DESIGN By: • File #SB32-202020-12-4P_B • 11-Jun-19

PROJECT NAME

PROJECT LOCATION

GRID SUMMARY

Name: Spill/Glare - 150' Offset
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid
Scan Average: 1467.1448
Maximum: 6452.597
Minimum: 0.730
No. of Points: 56

LUMINAIRE INFORMATION

Color / CRI: 5700K - 75 CRI
Luminaire Output: 136,000 / 89,600 / 52,000 lumens
No. of Luminaires: 14
Total Load: 12.88 kW

Lumen Maintenance

Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-1200	>81,000	>81,000	>81,000
TLC-LED-900	>81,000	>81,000	>81,000
TLC-BT-575	>81,000	>81,000	>81,000

Reported per TM-21-11. See luminaire datasheet for details.

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

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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ILLUMINATION SUMMARY

PROJECT NAME

PROJECT LOCATION

EQUIPMENT LAYOUT

INCLUDES:

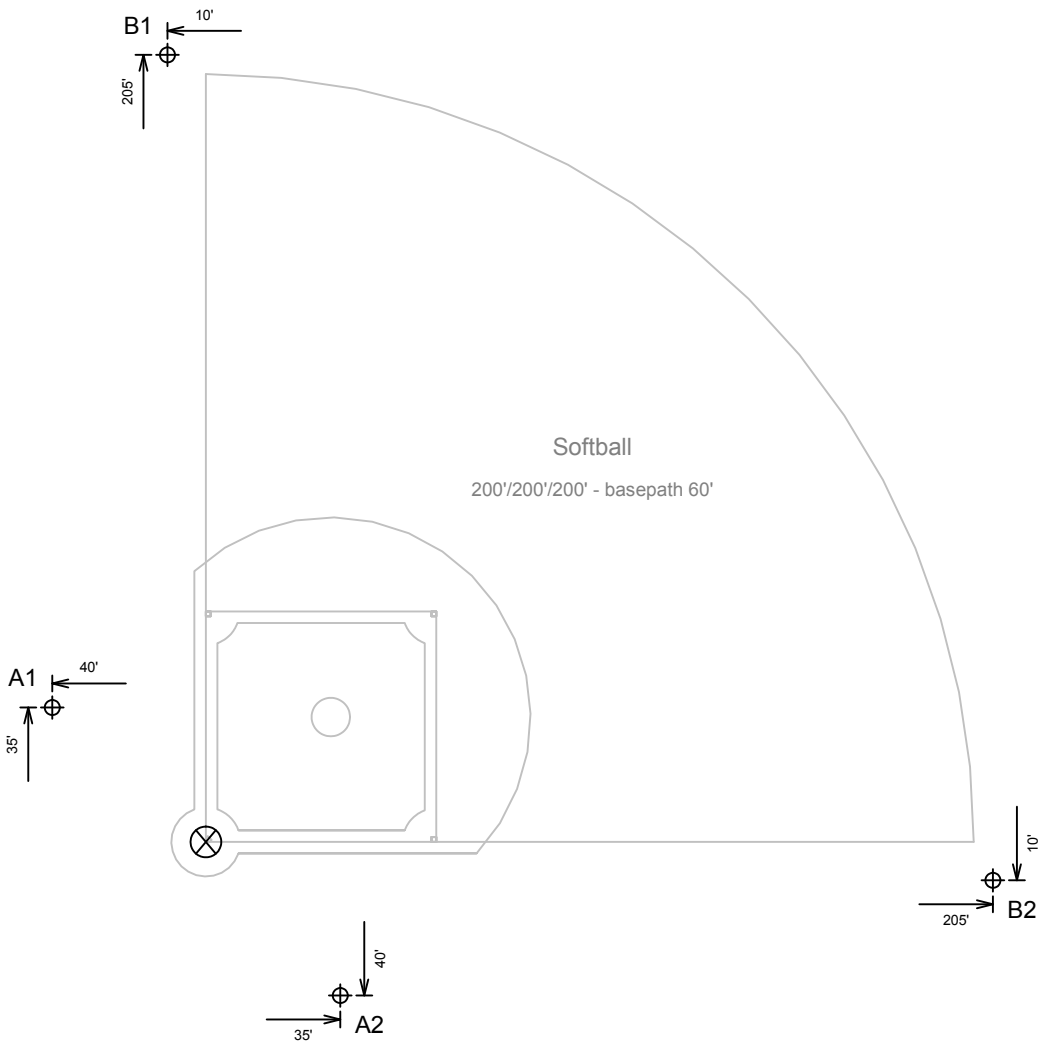
- Softball

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

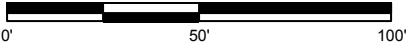
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN						
Pole			Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	A1-A2	60'	-	15.5' 60'	TLC-BT-575 TLC-LED-900	1 2
2	B1-B2	70'	-	15.5' 70'	TLC-BT-575 TLC-LED-1200	1 3
4	TOTALS					14

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
Single Phase Voltage		208 (Ø)	220 (Ø)	240 (Ø)	277 (Ø)	347 (Ø)	480 (Ø)
TLC-LED-1200		7.0	6.6	6.1	5.2	4.2	3.8
TLC-LED-900-A		5.3	5.0	4.6	4.0	3.2	2.9
TLC-BT-575		3.4	3.2	2.9	2.5	2.0	1.8



SCALE IN FEET 1 : 50



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



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