Appendix

Appendix D Lighting Plans for Pacific High School

Appendix

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San Bernardino,CA

Lighting System

Pole / Fixture	Summary					
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	70'	70'	4	TLC-LED-1200	4.68 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
A3	60'	60'	3	TLC-LED-900	2.67 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
A4	60'	60'	3	TLC-LED-900	2.67 kW	В
		16'	1	TLC-BT-575	0.58 kW	В
		60'	1	TLC-LED-400	0.40 kW	G
		60'	2	TLC-LED-900	1.78 kW	F
B1-B2	80'	80'	8	TLC-LED-1500	11.44 kW	Α
		80'	1	TLC-LED-400	0.40 kW	Α
		16'	1	TLC-BT-575	0.58 kW	Α
B3-B4	70'	70'	7	TLC-LED-1500	10.01 kW	В
		16'	2	TLC-BT-575	1.15 kW	В
C1-C2	70'	70'	4	TLC-LED-1200	4.68 kW	Α
		16'	2	TLC-BT-575	1.15 kW	Α
D1	70'	70'	4	TLC-LED-1200	4.68 kW	Α
P1	60'	60'	2	TLC-LED-400	0.80 kW	G
		60'	1	TLC-LED-900	0.89 kW	F
P2	60'	60'	2	TLC-LED-400	0.80 kW	G
		60'	1	TLC-LED-400	0.40 kW	F
		60'	1	TLC-LED-600	0.58 kW	F
		60'	1	TLC-LED-900	0.89 kW	F
P3	60'	60'	1	TLC-LED-400	0.40 kW	G
		60'	3	TLC-LED-900	2.67 kW	F
T1-T2	50'	50'	3	TLC-LED-900	2.67 kW	С
T3	50'	50'	3	TLC-LED-900	2.67 kW	D
		50'	3	TLC-LED-900	2.67 kW	С
T4	50'	50'	3	TLC-LED-900	2.67 kW	С
		50'	3	TLC-LED-900	2.67 kW	D
		50'	3	TLC-LED-900	2.67 kW	E
T5	50'	50'	3	TLC-LED-900	2.67 kW	D
		50'	3	TLC-LED-900	2.67 kW	E
T6	60'	60'	3	TLC-LED-900	2.67 kW	D
T7-T8	50'	50'	3	TLC-LED-900	2.67 kW	E
22			123		122.14 kW	

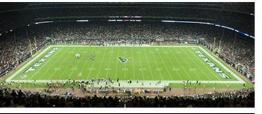
Circuit Summary	Circuit Summary									
Circuit	Description	Load	Fixture Qty							
A	Varsity Baseball	51.68 kW	46							
В	Varsity Softball	28.81 kW	26							
С	Tennis 1-3	10.68 kW	12							
D	Tennis 4-6	10.68 kW	12							
E	Tennis 7-9	10.68 kW	12							
F	Pool	7.21 kW	9							
G	Pool Egress	2.4 kW	6							

Fixture Type Summary									
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity		
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	20		
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	49		
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	1		
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	30		
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	14		
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	9		

From Hometown to Professional











San Bernardino,CA

Light Level Summary

alculation Grid Summary								
Grid Name	Calculation Metric	Ave	Min	Illumination	Max/Min	A /B.#!	Circuits	Fixture Qty
Blanket Grid	Horizontal	22.1	0	Max 63	2492.77	Ave/Min	В	26
Diving Pool	Horizontal	54	35	67	1.91	1.54	F,G	15
East Spill	Horizontal	0.06	0	0.43	0.00		A,B,C,D,E, F,G	123
East Spill	Max Candela (by Fixture)	7046	35.3	28638	811.54	199.67	A,B,C,D,E, F,G	123
East Spill	Max Vertical Illuminance Metric	0.17	0	1.15	10458.62		A,B,C,D,E, F,G	123
Pool Deck	Horizontal	37.9	12	64	5.14	3.16	F,G	15
Pool Egress	Horizontal	11.2	1	23	22.57	11.21	G	6
South Spill	Horizontal	0	0	0	0.00		A,B,C,D,E, F,G	123
South Spill	Max Candela (by Fixture)	7569	0	20381	0.00		A,B,C,D,E, F,G	123
South Spill	Max Vertical Illuminance Metric	0.01	0	0.03	0.00		A,B,C,D,E, F,G	123
Tennis 1-3	Horizontal Illuminance	52.6	37	64	1.73	1.42	С	12
Tennis 4-6	Horizontal Illuminance	52.7	38	68	1.79	1.39	D	12
Tennis 7-9	Horizontal Illuminance	54	39	72	1.87	1.38	E	12
Training Pool	Horizontal	51.8	35	69	1.97	1.48	F,G	15
Varsity Baseball (Infield)	Horizontal Illuminance	52.2	39	62	1.59	1.34	А	46
Varsity Baseball (Outfield)	Horizontal Illuminance	32.8	21	45	2.10	1.56	Α	46
Varsity Softball (Infield)	Horizontal Illuminance	51	38	64	1.67	1.34	В	26
Varsity Softball (Outfield)	Horizontal Illuminance	35.2	22	46	2.10	1.60	В	26

From Hometown to Professional









EQI	EQUIPMENT LIST FOR AREAS SHOWN										
	P	ole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS			
1	A4	60'	-	15.5'	TLC-BT-575	1	0	1			
				60'	TLC-LED-400	1	1	0			
				60'	TLC-LED-900	3/2*	2	3			
1	P1	60'	-	60'	TLC-LED-400	2	2	0			
				60'	TLC-LED-900	1	1	0			
1	P2	60'	-	60'	TLC-LED-900	1	1	0			
				60'	TLC-LED-400	3	3	0			
				60'	TLC-LED-600	1	1	0			
1	P3	60'	-	60'	TLC-LED-400	1	1	0			
				60'	TLC-LED-900	3	3	0			
4			TOTALS			19	15	4			

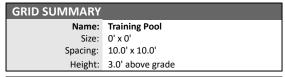
^{*} This structure utilizes a back-to-back mounting configuration

SCALE IN FEET 1:40

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Pacific High School Athletic Fields

San Bernardino,CA



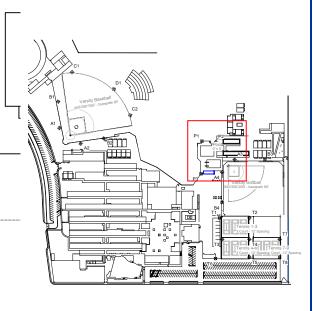
ILLUMINATION S	ILLUMINATION SUMMARY					
MAINTAINED HORIZONTA	AL FOOTCANDLES					
	Entire Grid					
Scan Average:	51.79					
Maximum:	69					
Minimum:	35					
Avg / Min:	1.48					
Max / Min:	1.97					
UG (adjacent pts):	1.33					
CU:	0.24					
No. of Points:	50					
LUMINAIRE INFORMATIO	N					
Applied Circuits:	F, G					
No. of Luminaires:	15					
Total Load:	9.61 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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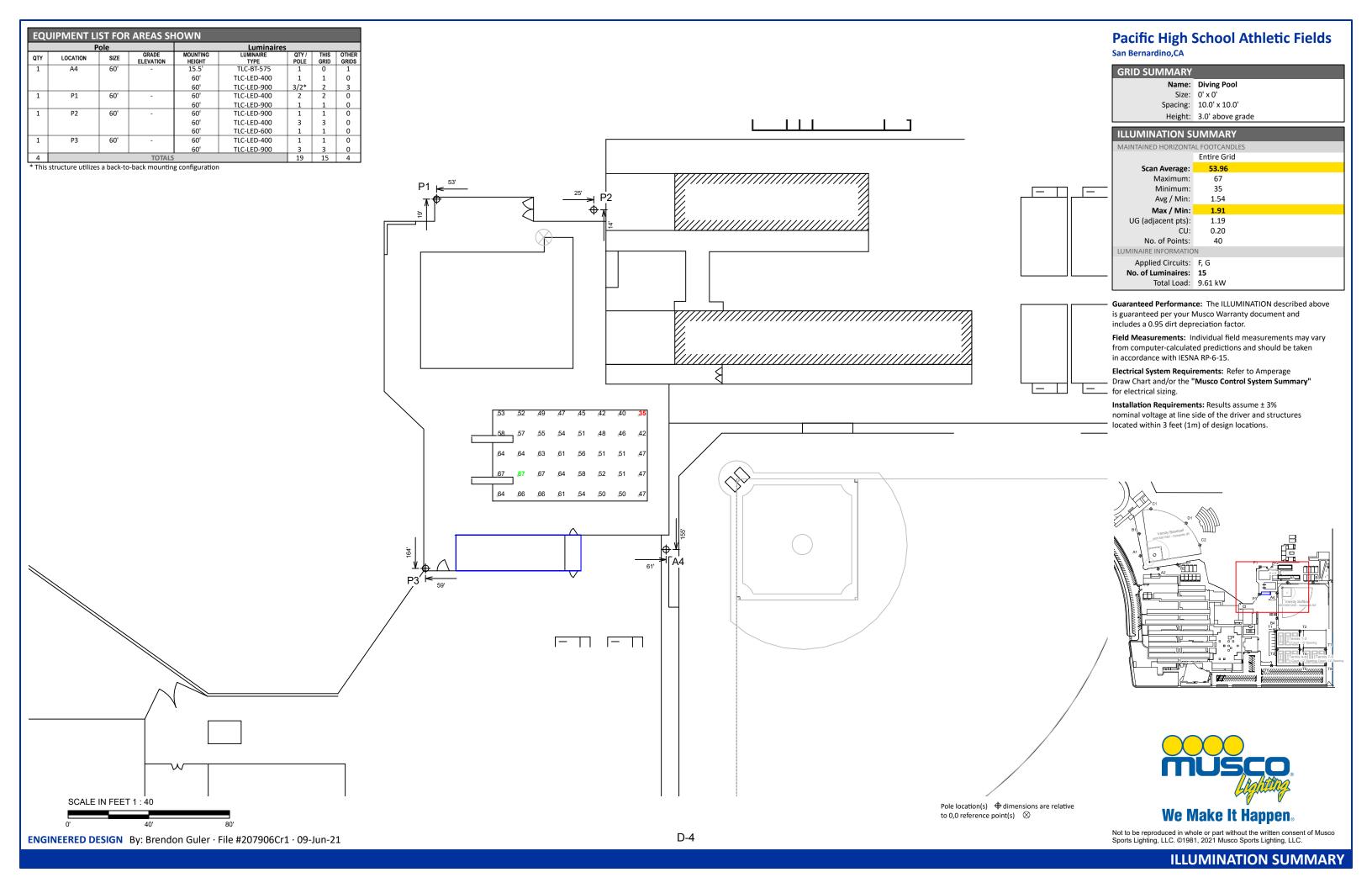
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Pole location(s) \bigoplus dimensions are relative to 0,0 reference point(s) \bigotimes

55 61 63 61 58 55

35 44 48 49 49 47 42 **35**

52 49 44 35



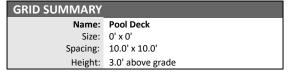
EQUIPMENT LIST FOR AREAS SHOWN									
Pole					Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A4	60'	-	15.5'	TLC-BT-575	1	0	1	
				60'	TLC-LED-400	1	1	0	
				60'	TLC-LED-900	3/2*	2	3	
1	P1	60'	-	60'	TLC-LED-400	2	2	0	
				60'	TLC-LED-900	1	1	0	
1	P2	60'	-	60'	TLC-LED-900	1	1	0	
				60'	TLC-LED-400	3	3	0	
				60'	TLC-LED-600	1	1	0	
1	P3	60'	-	60'	TLC-LED-400	1	1	0	
				60'	TLC-LED-900	3	3	0	
4	4 TOTALS 19 15 4							4	
* This	structure utilizes	a back-to	-back mounting	g configuration				•	

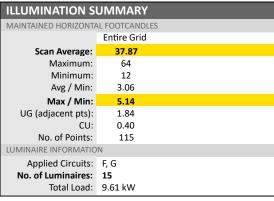
SCALE IN FEET 1:40

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Pacific High School Athletic Fields

San Bernardino,CA



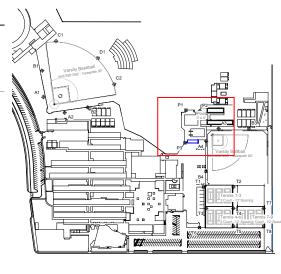


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

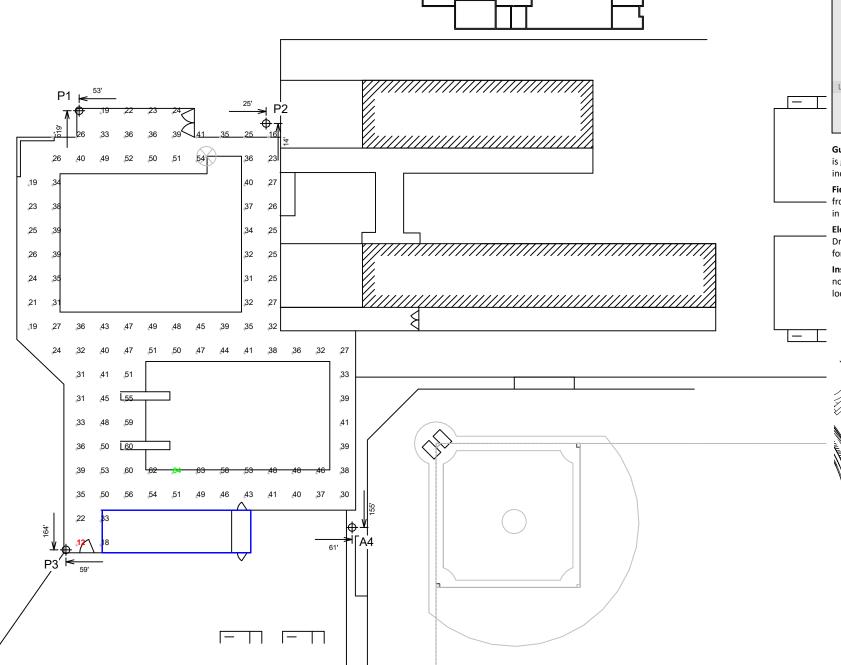
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





to 0,0 reference point(s) \otimes

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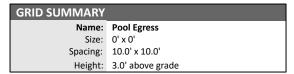
D-5

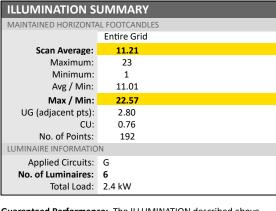
EQUIPMENT LIST FOR AREAS SHOWN									
Pole Luminaires									
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A4	60'	-	15.5'	TLC-BT-575	1	0	1	
				60'	TLC-LED-400	1	1	0	
				60'	TLC-LED-900	3/2*	0	5	
1	P1	60'	-	60'	TLC-LED-400	2	2	0	
				60'	TLC-LED-900	1	0	1	
1	P2	60'	-	60'	TLC-LED-900	1	0	1	
				60'	TLC-LED-400	3	2	1	
				60'	TLC-LED-600	1	0	1	
1	P3	60'	-	60'	TLC-LED-400	1	1	0	
				60'	TLC-LED-900	3	0	3	
4	4 TOTALS 19 6 13							13	
* This	structure utilizes	a back-to	-hack mountin	g configuration	1			•	

This structure utilizes a back-to-back mounting configuration



San Bernardino,CA



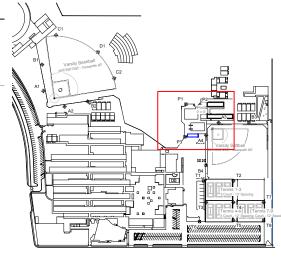


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

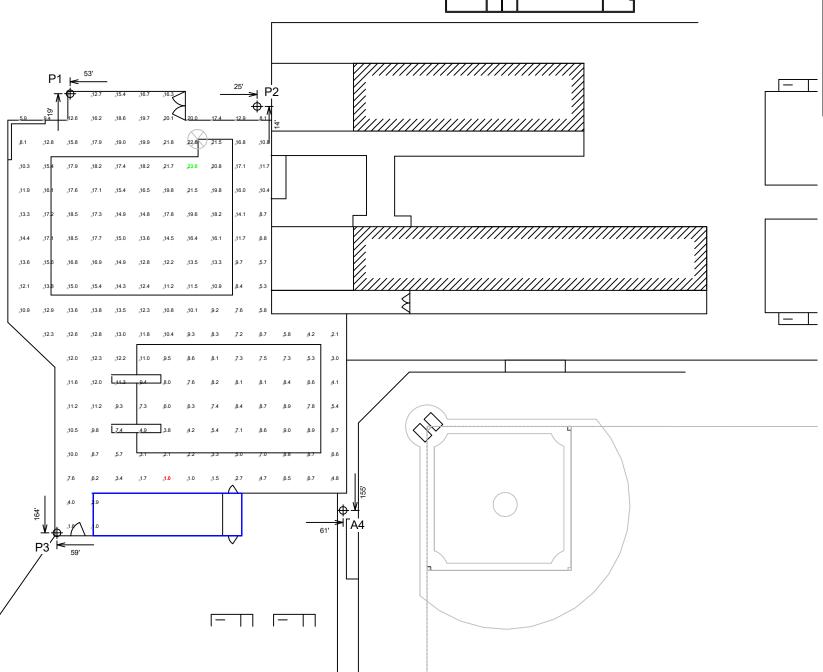
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



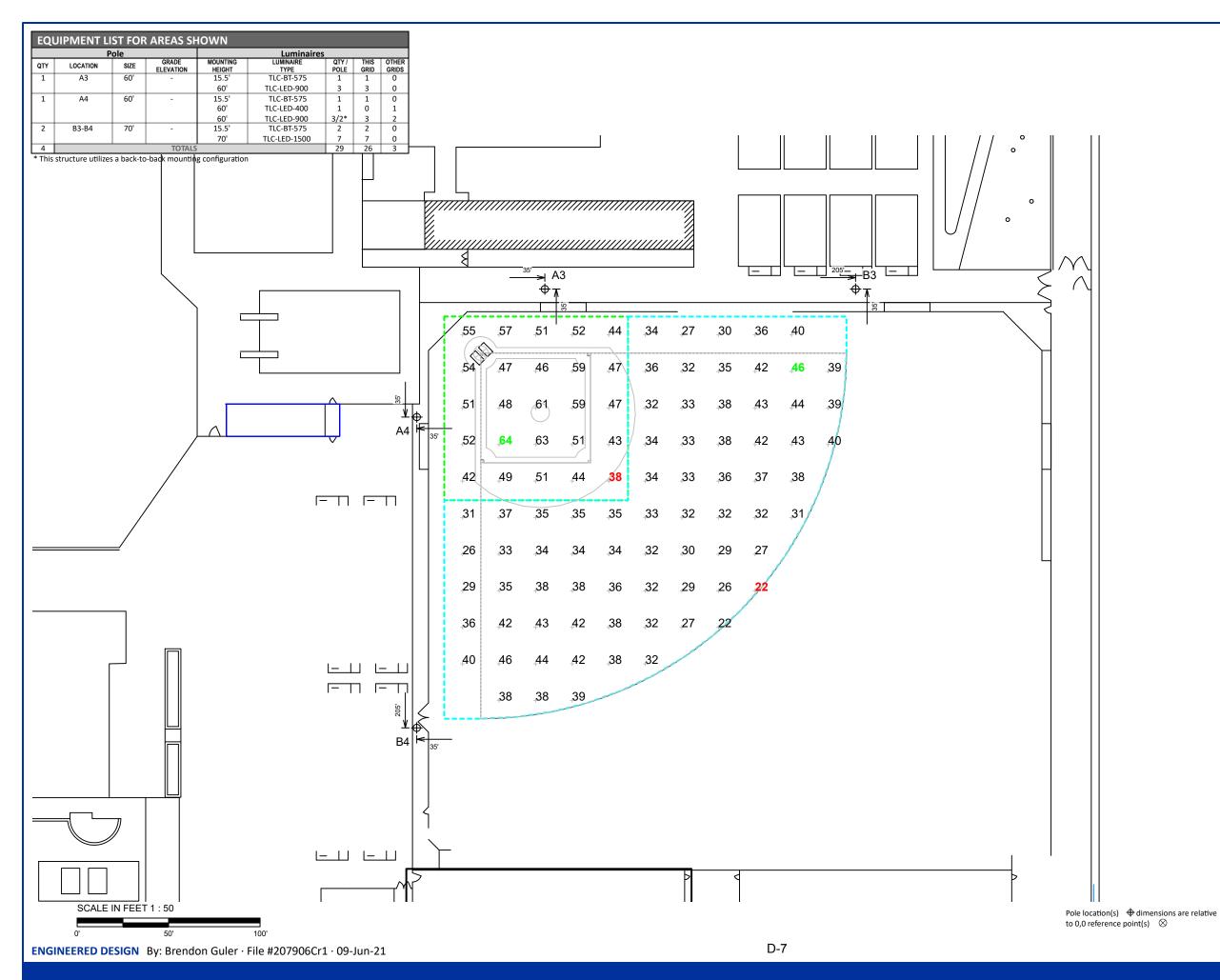


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SCALE IN FEET 1:40



San Bernardino,CA

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

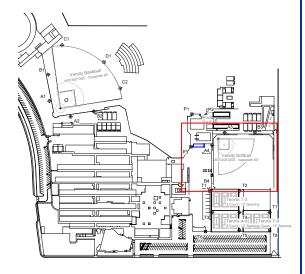
ILLUMINATION S	ILLUMINATION SUMMARY						
MAINTAINED HORIZONTA	MAINTAINED HORIZONTAL FOOTCANDLES						
	Infield	Outfield					
Guaranteed Average:	50	30					
Scan Average:	51.02	35.19					
Maximum:	64	46					
Minimum:	38	22					
Avg / Min:	1.33	1.59					
Guaranteed Max / Min:	2	2.5					
Max / Min:	1.67	2.10					
UG (adjacent pts):	1.32	1.26					
CU:	0.52						
No. of Points:	25	73					
LUMINAIRE INFORMATIO	N						
Applied Circuits:	В						
No. of Luminaires:	26						
Total Load:	28.81 kW						

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

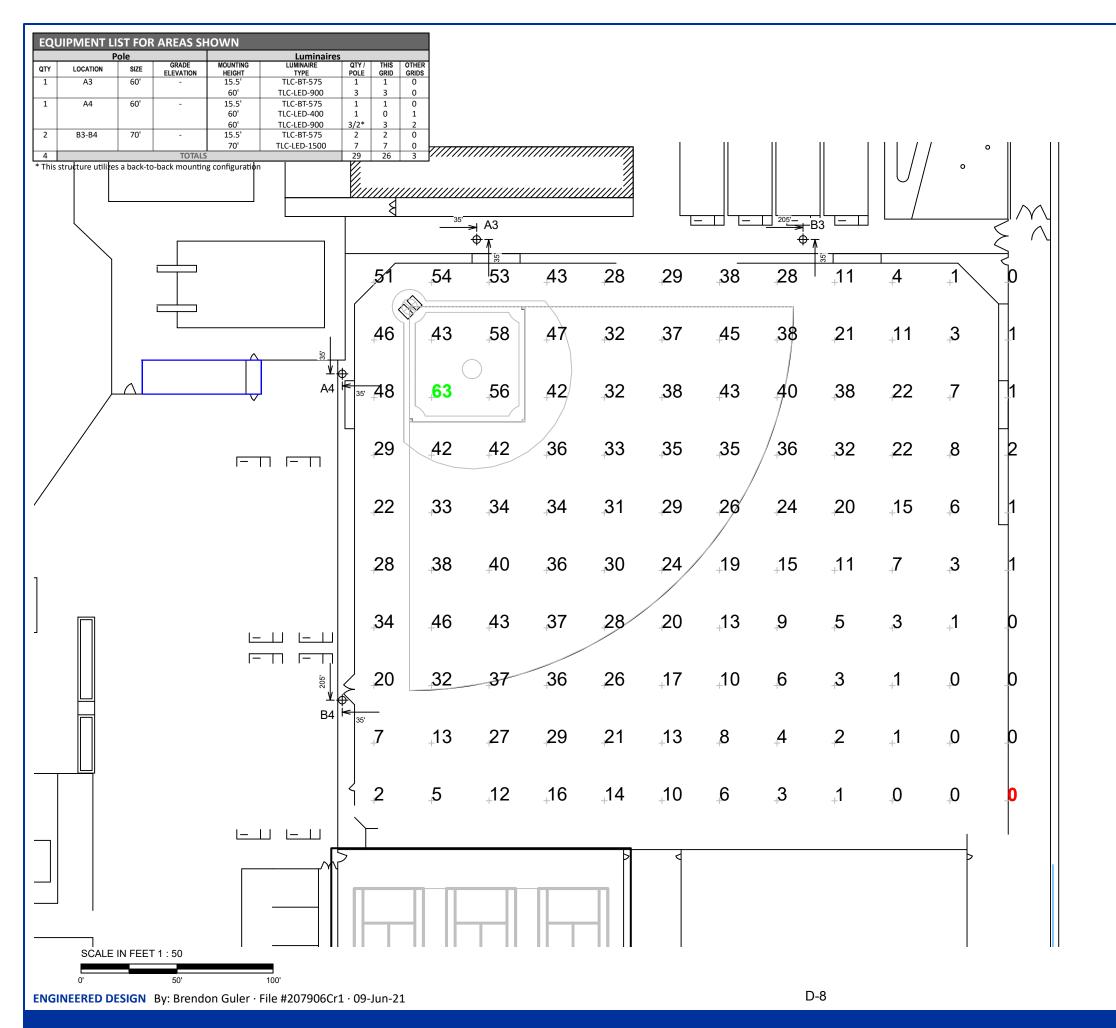
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.







San Bernardino,CA

Rame: Blanket Grid
Size: 200'/200'/200' - basepath 60'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

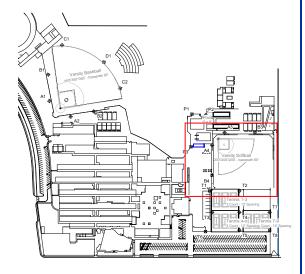
ILLUMINATION S	UMMARY	
MAINTAINED HORIZONTA	AL FOOTCANDLES	
	Entire Grid	
Scan Average:	22.11	
Maximum:	63	
Minimum:	0	
Avg / Min:	871.59	
Max / Min:	2492.77	
UG (adjacent pts):	5.68	
CU:	0.80	
No. of Points:	120	
LUMINAIRE INFORMATIO	N	
Applied Circuits:	В	
No. of Luminaires:	26	
Total Load:	28.81 kW	

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

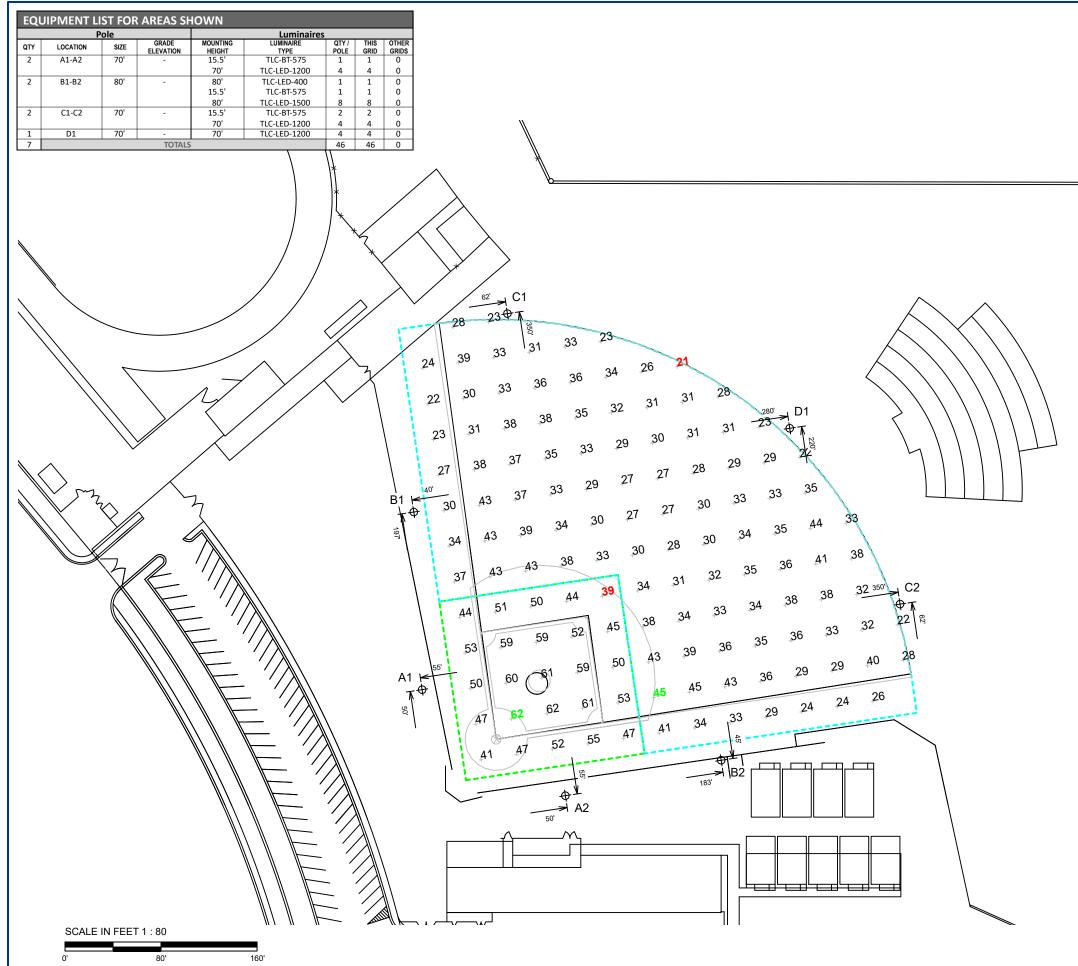
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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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Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name: Varsity Baseball
Size: 350'/350'/350' - basepath 90'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

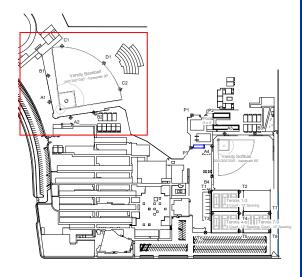
ILLUMINATION S	UMMARY	ILLUMINATION SUMMARY						
MAINTAINED HORIZONTA	MAINTAINED HORIZONTAL FOOTCANDLES							
	Infield	Outfield						
Guaranteed Average:	50	30						
Scan Average:	52.18	32.77						
Maximum:	62	45						
Minimum:	39	21						
Avg / Min:	1.34	1.53						
Guaranteed Max / Min:	2	2.5						
Max / Min:	1.59	2.10						
UG (adjacent pts):	1.32	1.63						
CU:	0.77							
No. of Points:	25	106						
LUMINAIRE INFORMATION								
Applied Circuits:	Α							
No. of Luminaires:	46							
Total Load:	51.68 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.





to 0,0 reference point(s) \otimes

EQI	EQUIPMENT LIST FOR AREAS SHOWN									
Pole Luminaires										
QTY	LOCATION SIZE GRADE MOUNTING LUMINAIRE QTY / THIS OTHER POLE GRID GRIDS									
1	T4	50'	-	50'	TLC-LED-900	6/3*	3	6		
1	T5	50'	-	50'	TLC-LED-900	3/3*	3	3		
2	T7-T8	50'	-	50'	TLC-LED-900	3	3	0		
4	4 TOTALS 21 12 9							9		

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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY	
Name:	Tennis 7-9
Size:	3 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

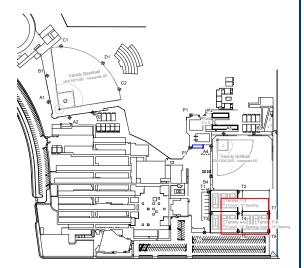
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
	Entire Grid		
Guaranteed Average:	50		
Scan Average:	54.01		
Maximum:	72		
Minimum:	39		
Avg / Min:	1.40		
Guaranteed Max / Min:	2		
Max / Min:	1.87		
UG (adjacent pts):	0.00		
CU:	0.86		
No. of Points:	45		
LUMINAIRE INFORMATION			
Applied Circuits:	E		
No. of Luminaires:	12		
Total Load:	10.68 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.

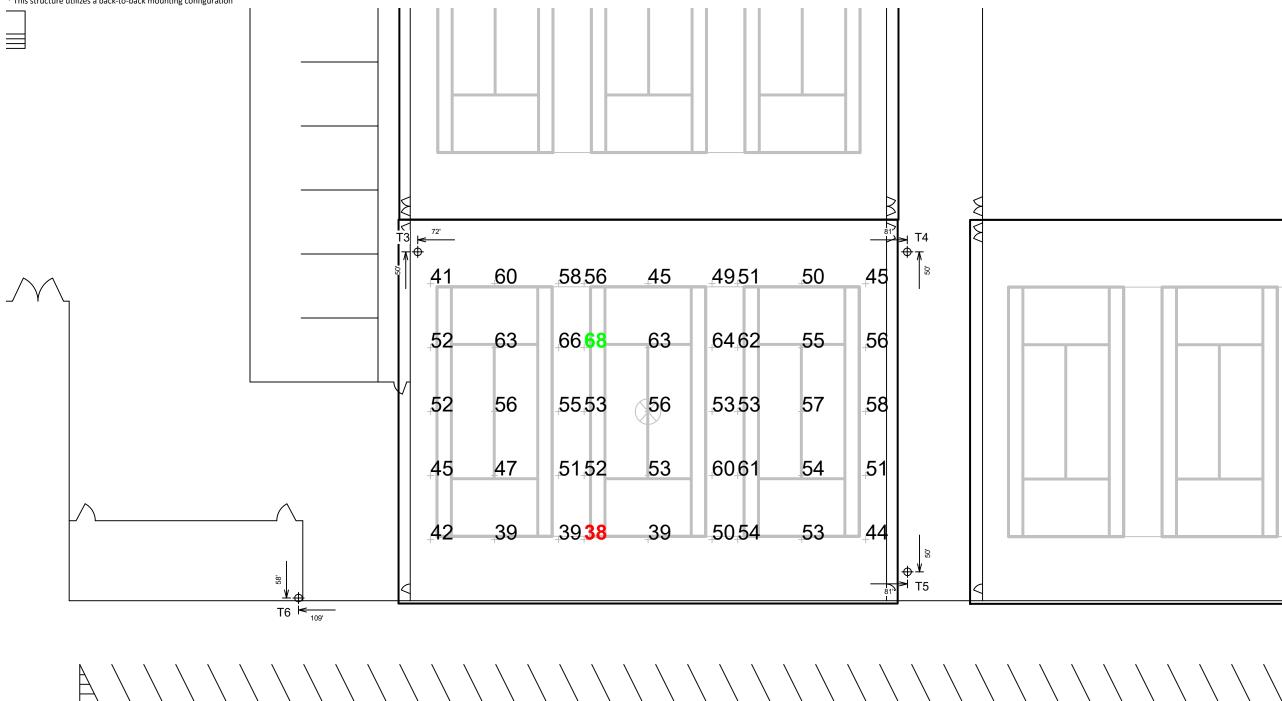
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





SCALE IN FEET 1:30

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Pacific High School Athletic Fields

San Bernardino,CA

Rame: Size: 3 Court - 12' Spacing 20.0' x 20.0' Height: 3.0' above grade

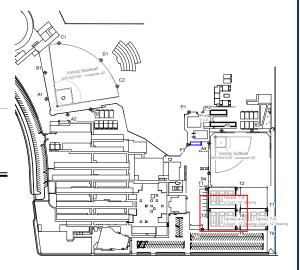
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL FOOTCANDLES			
	Entire Grid		
Guaranteed Average:	50		
Scan Average:	52.67		
Maximum:	68		
Minimum:	38		
Avg / Min:	1.39		
Guaranteed Max / Min:	2		
Max / Min:	1.79		
UG (adjacent pts):	0.00		
CU:	0.84		
No. of Points:	45		
LUMINAIRE INFORMATION			
Applied Circuits:	D		
No. of Luminaires:	12		
Total Load:	10.68 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.





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

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS
2	T1-T2	50'	-	50'	TLC-LED-900	3	3	0
1	T3	50'	-	50'	TLC-LED-900	6	3	3
1	T4	50'	-	50'	TLC-LED-900	6/3*	3	6
4					21	12	9	
4	k This should not still a control to be able to the control of the still of the control of the c							

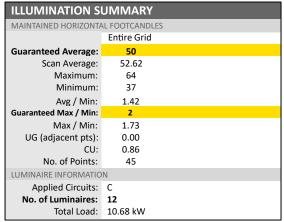
64

T4

Pacific High School Athletic Fields

San Bernardino,CA



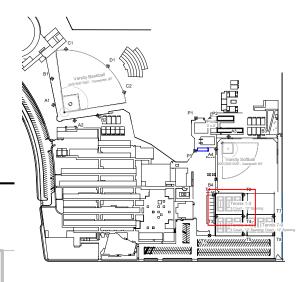


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.





to 0,0 reference point(s) \otimes

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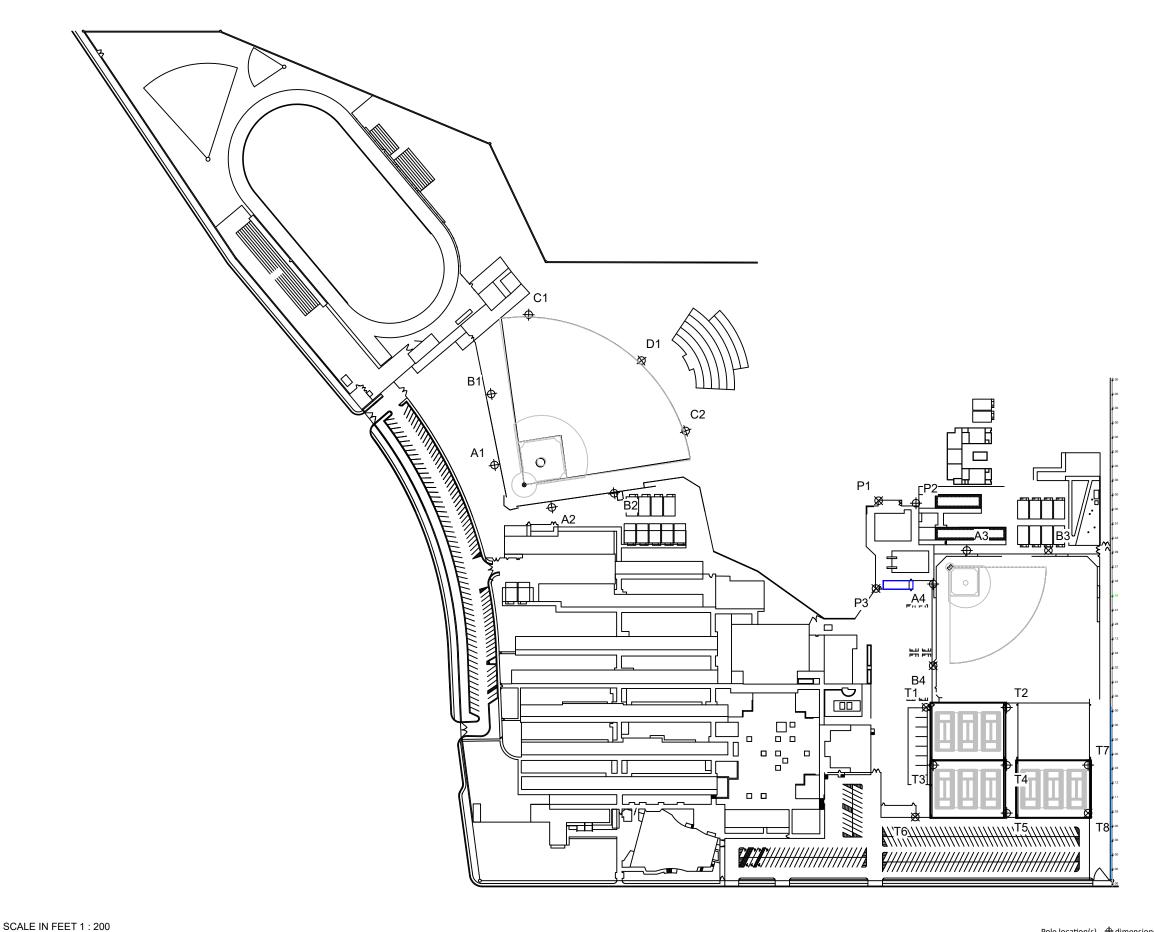
T2

SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: Brendon Guler · File #207906Cr1 · 09-Jun-21

^{*} This structure utilizes a back-to-back mounting configuration



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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name: East Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY HORIZONTAL FOOTCANDLES Entire Grid 0.0639 Maximum: 0.43 Minimum: 0.00 No. of Points: 36 LUMINAIRE INFORMATION Applied Circuits: No. of Luminaires: 123 Total Load: 122.14 kW

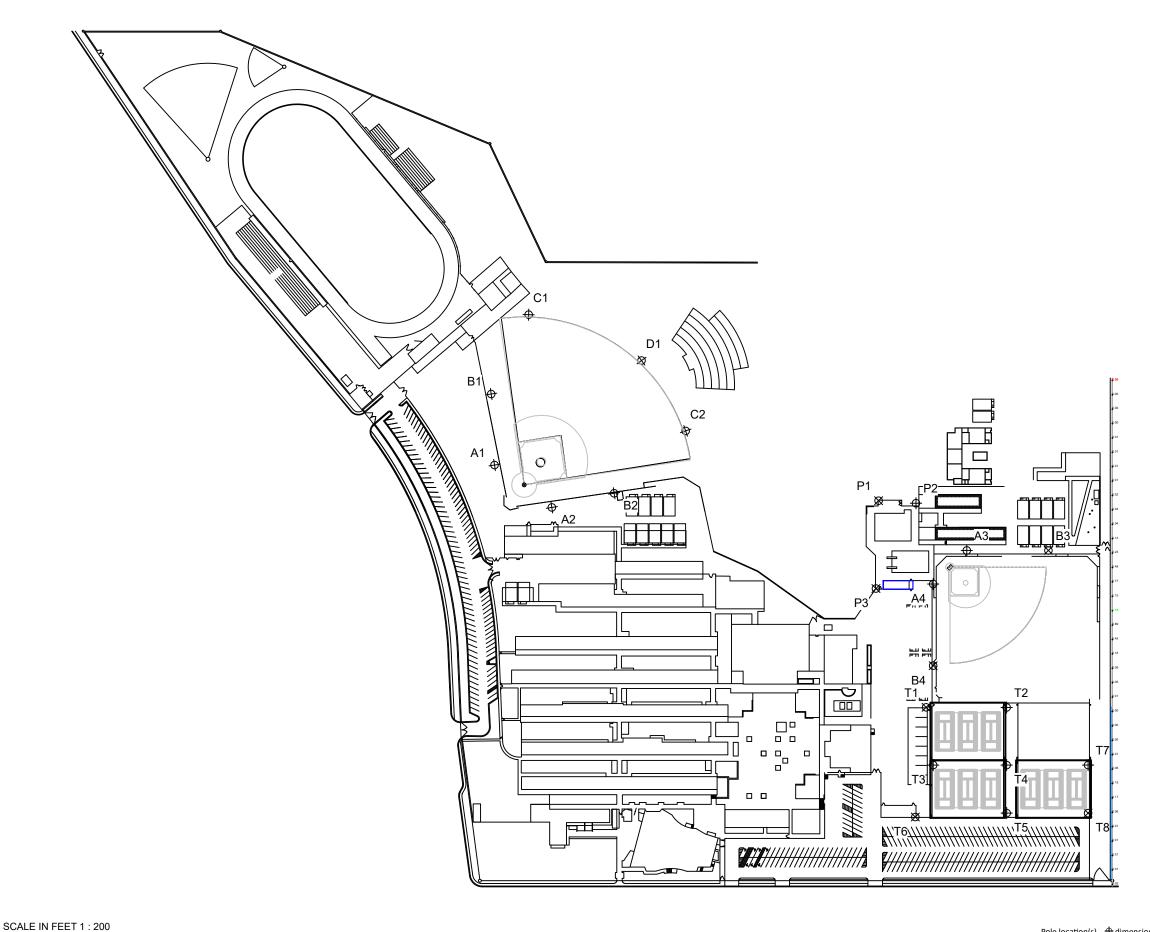
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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





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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name:
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY MAX VERTICAL FOOTCANDLES Entire Grid 0.1719 Maximum: Minimum: No. of Points: LUMINAIRE INFORMATION Applied Circuits: No. of Luminaires: 123 Total Load: 122.14 kW

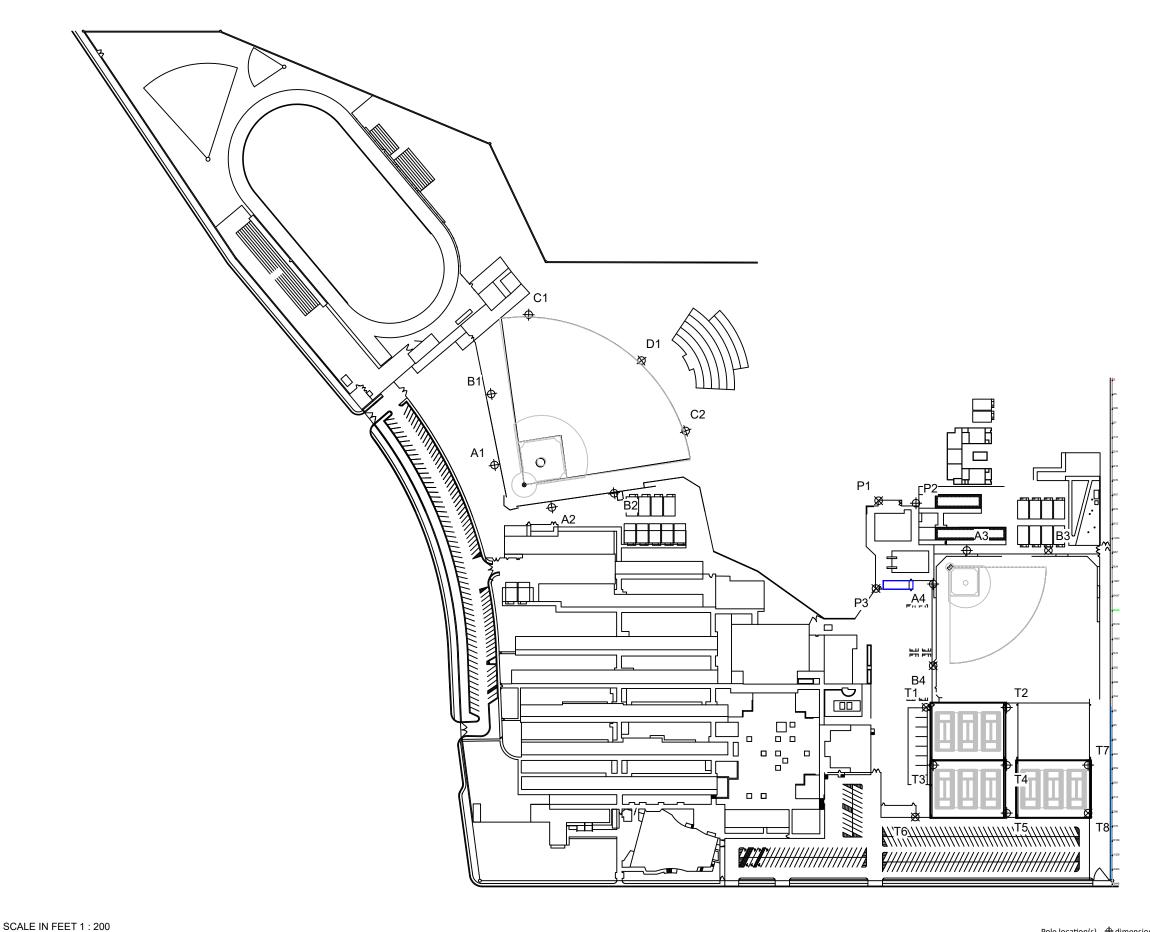
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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





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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name:
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Entire Grid

Scan Average: 7046.2661

Maximum: 28637.63

Minimum: 35.29

No. of Points: 36

LUMINAIRE INFORMATION

Applied Circuits: A, B, C, D, E, F, G

No. of Luminaires: 123

Total Load: 122.14 kW

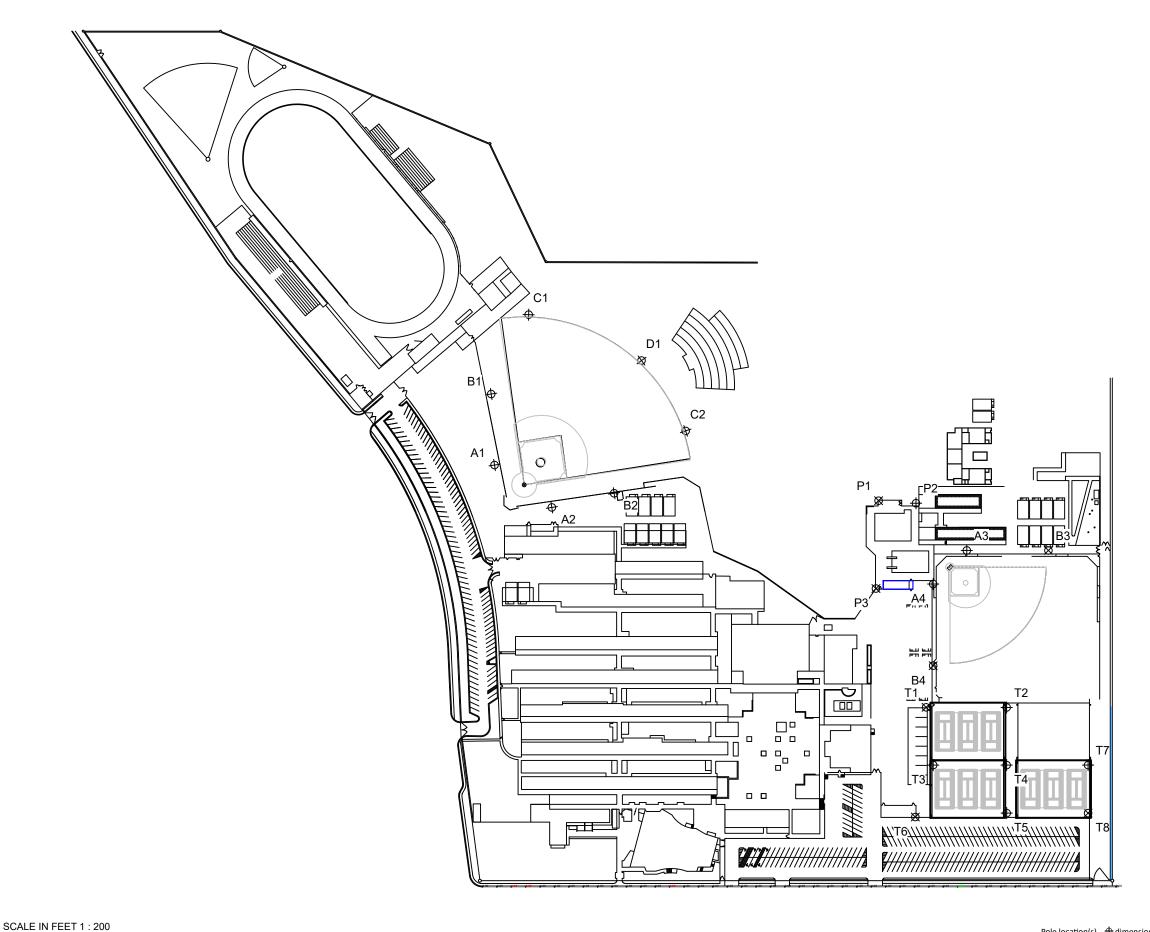
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document

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





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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name: South Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY HORIZONTAL FOOTCANDLES Entire Grid 0.0007 Maximum: 0.00 No. of Points: 45 LUMINAIRE INFORMATION Applied Circuits: No. of Luminaires: 123 Total Load: 122.14 kW

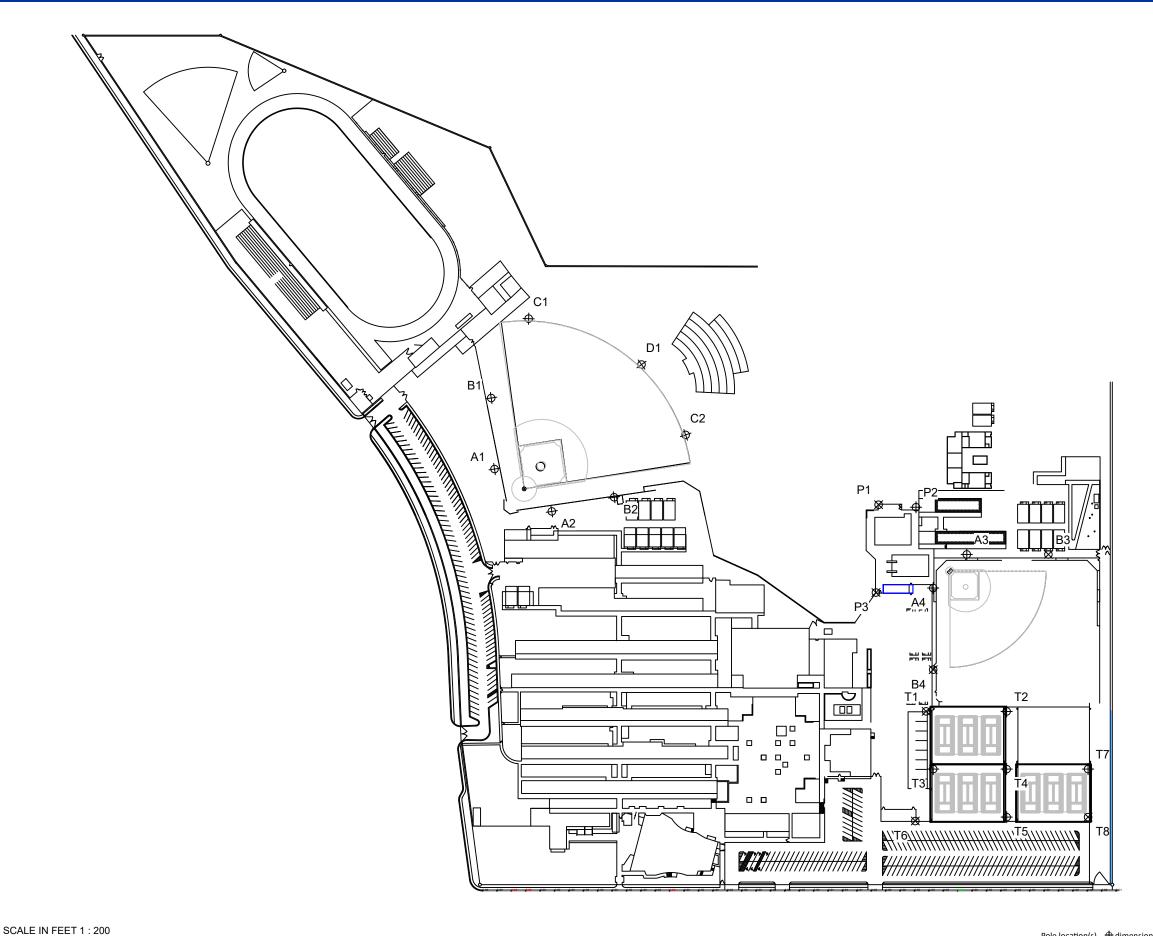
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty

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.





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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name: South Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY MAX VERTICAL FOOTCANDLES Entire Grid 0.0106 Maximum: 0.03 Minimum: 0.00 No. of Points: 45 LUMINAIRE INFORMATION Applied Circuits: A, B, C, D, E, F, G No. of Luminaires: 123 Total Load: 122.14 kW

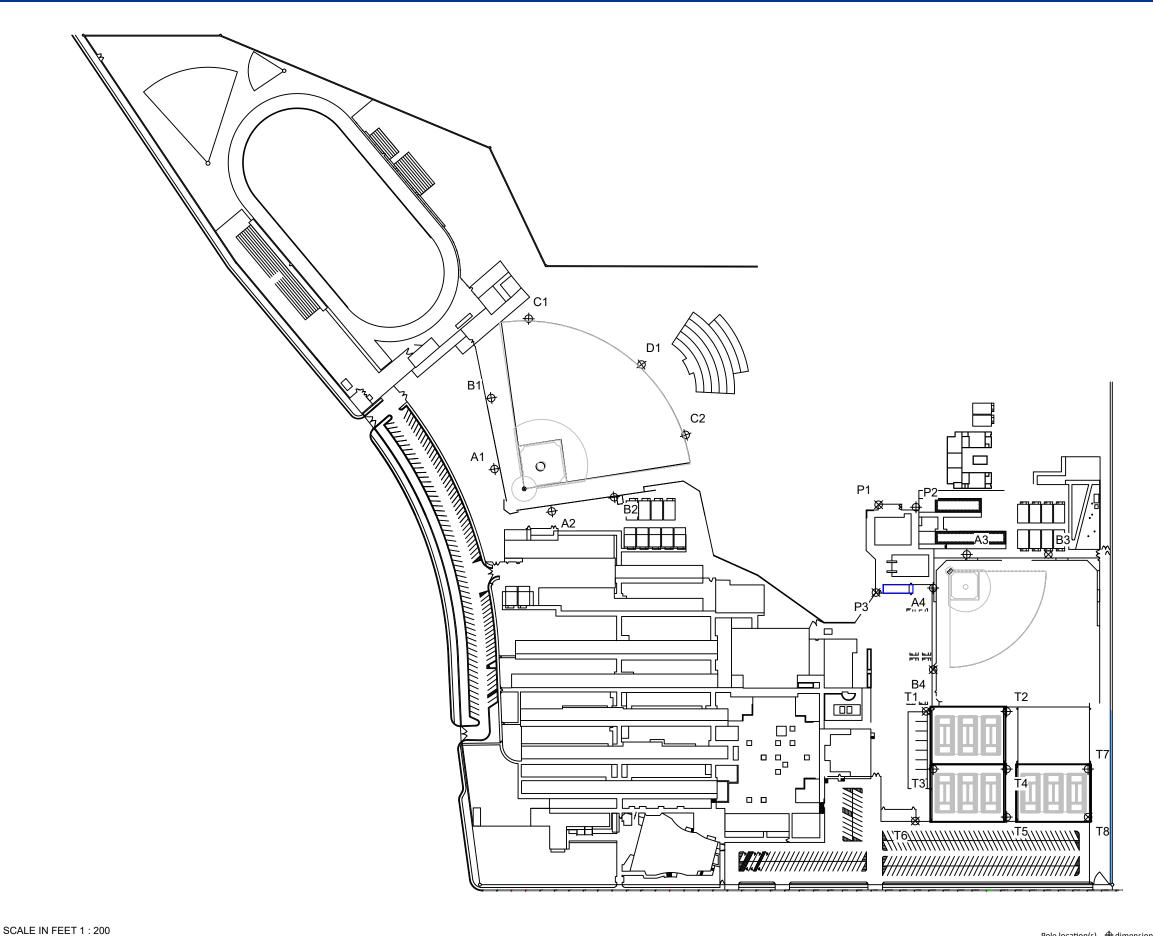
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty

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.





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

Pacific High School Athletic Fields

San Bernardino,CA

GRID SUMMARY

Name: South Spill
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY CANDELA (PER FIXTURE) Entire Grid Scan Average: 7569.0693 Maximum: 20381.13 Minimum: 0.00 No. of Points: 45 LUMINAIRE INFORMATION Applied Circuits: A, B, C, D, E, F, G No. of Luminaires: 123 Total Load: 122.14 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 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.



Varsity Baseball B1\ 350'/350'/350' - basepath 90' AREA OF WORK 0 Varsity Softball 200'/200'/200' - basepath 60' T2 Tennis 1-3 3 Court - 12' Spacing - ----T4 Tennis 4-b 3 Court - 12' Spacing¹ Court -

SCALE IN FEET 1:200

ENGINEERED DESIGN By: Brendon Guler · File #207906Cr1 · 09-Jun-21

to 0,0 reference point(s) \otimes

Pacific High School Athletic Fields

San Bernardino,CA

EQUIPMENT LAYOUT

INCLUDES:

· Pool

Tennis 1-3

Tennis 4-6 Tennis 7-9

Varsity Baseball

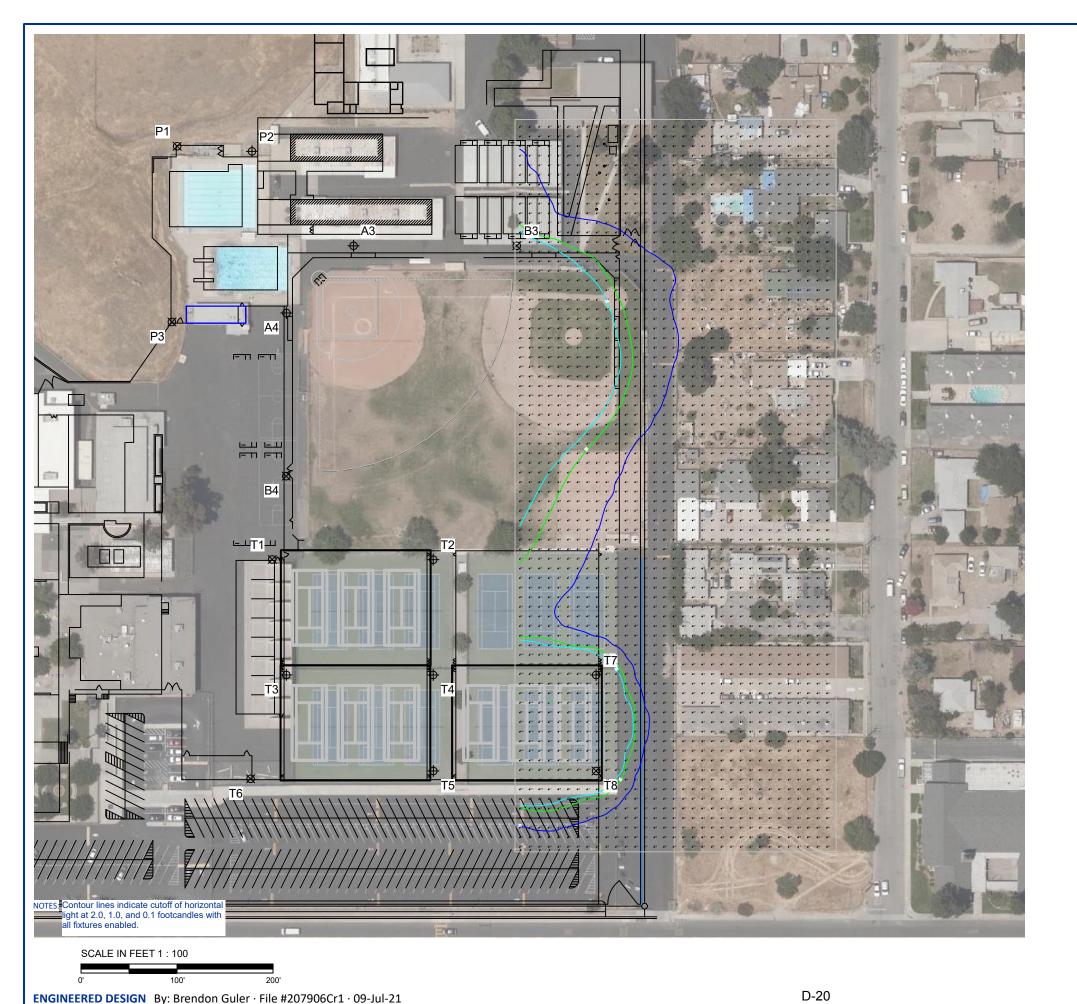
Varsity Softball

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.

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
Single Phase Voltage	208	220	240	277	347 (60)	380	480 (60)
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0





San Bernardino,CA

GRID SUMMARY Name: Grid Spacing: 10.0' x 10.0' Height: 3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Entire Grid	
Scan Average:	3.98	
Maximum:	73	
Minimum:	0	
Avg / Min:	-	
Max / Min:	-	
UG (adjacent pts):	35.53	
CU:	0.07	
No. of Points:	2508	
LUMINAIRE INFORMATION		
Applied Circuits:	A, B, C, D, E, F, G	
No. of Luminaires:	123	
Total Load:	122.14 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.

