

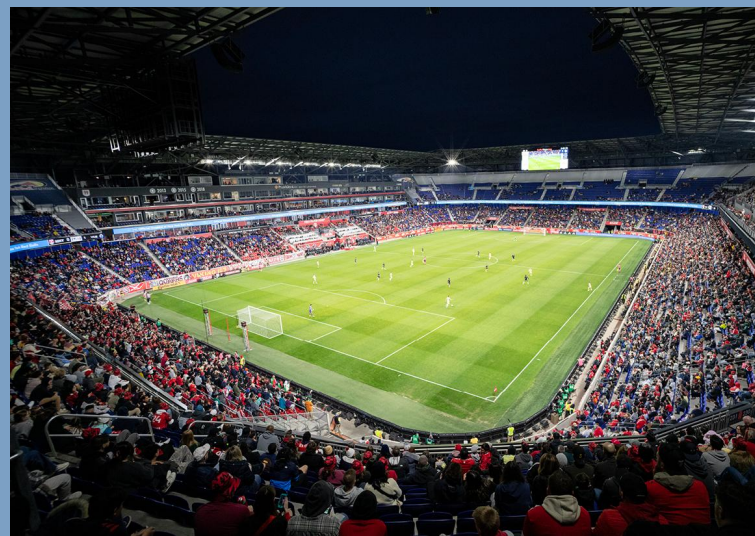
Rio Americano High School Stadium Improvements Project Draft Environmental Impact Report

SCH Number: 2026010094

Appendix B MUSCO Lighting Report



August 2026



Sports Illustrated Stadium, Harrison, New Jersey, USA



UBS Arena, Elmont, New York, USA



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



Tottenham Hotspur FC Training Ground, Tottenham, London, UK

Rio Americano High School Stadium

Sacramento, CA

Sales Representative: Bob Crookham · Designed By: William Isiminger · Design No.: 244133B · December 21, 2025

Rio Americano High School Stadium
Sacramento,CA

LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
F1-F4	80'	80'	1	TLC-LED-1500	1.41 kW	D
		80'	1	TLC-RGBW	0.64 kW	B
		80'	3	TLC-LED-1500	4.23 kW	A
		80'	8	TLC-LED-900	7.04 kW	A
		16'	1	TLC-RGB-U	0.43 kW	C
		16'	2	TLC-BT-575	1.15 kW	A
4			64		59.60 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	49.68 kW	52
B	Egress	2.56 kW	4
C	RGBU	1.72 kW	4
D	Track	5.64 kW	4

Fixture Type Summary								
Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	A	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	12
TLC-LED-1500	D	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	4
TLC-LED-900	A	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	32
TLC-RGB-U	C	RED-GREEN (Shown)-BLUE	430W	16,000	21,300	>36,300	>36,300	4
TLC-RGBW	B	LED 5700K - 75 CRI	640W	28,500	>120,000	>120,000	>120,000	4

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)	480 (60)
TLC-LED-1500		8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-900		5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575		3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-RGB-U		3.0	2.9	2.6	2.3	1.8	1.6	1.3
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		
Football	Horizontal Illuminance	51.40	38	67	1.78	1.37	A	52
Home Bleacher	Horizontal	9.05	3	26	9.42	3.22	A,B	56
Home Bleacher Egress	Horizontal	2.89	1	4	3.66	2.72	B	4
PL Spill @ 3ft	Horizontal	0.11	0	0	21.06	5.65	A,B,C,D	64
PL Spill @ 5ft.	Max Candela (by Fixture)	3992.28	701	10016	14.28	5.69	A,B,C,D	64
PL Spill @ 5ft.	Max Vert Illuminance (by Light Bank)	0.16	0	0	8.12	3.56	A,B,C,D	64
Soccer	Horizontal Illuminance	51.59	37	69	1.86	1.40	A	52
Soccer Spill @ 3ft.	Horizontal Illuminance	0.0052	0.00	0.02	-	-	A,B	56
Soccer Spill @ 5ft.	Max Candela Metric	324.5377	1.59	992.12	622.022	203.472	A,B	56
Soccer Spill @ 5ft.	Max Vertical Illuminance Metric	0.0112	0.00	0.04	-	-	A,B	56
Spill @ 3ft.	Horizontal Illuminance	0.0033	0.00	0.02	-	-	A,B,C,D	64
Spill @ 5ft.	Max Candela Metric	470.5331	0.00	2749.24	-	-	A,B,C,D	64
Spill @ 5ft.	Max Vertical Illuminance Metric	0.0086	0.00	0.05	-	-	A,B,C,D	64
Track	Horizontal Illuminance	22.48	1	61	107.03	39.74	A,D	56
Visitor Bleacher	Horizontal	9.63	4	21	5.33	2.45	A,B	56
Visitor Bleacher Egress	Horizontal	3.48	2	5	2.00	1.53	B	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.

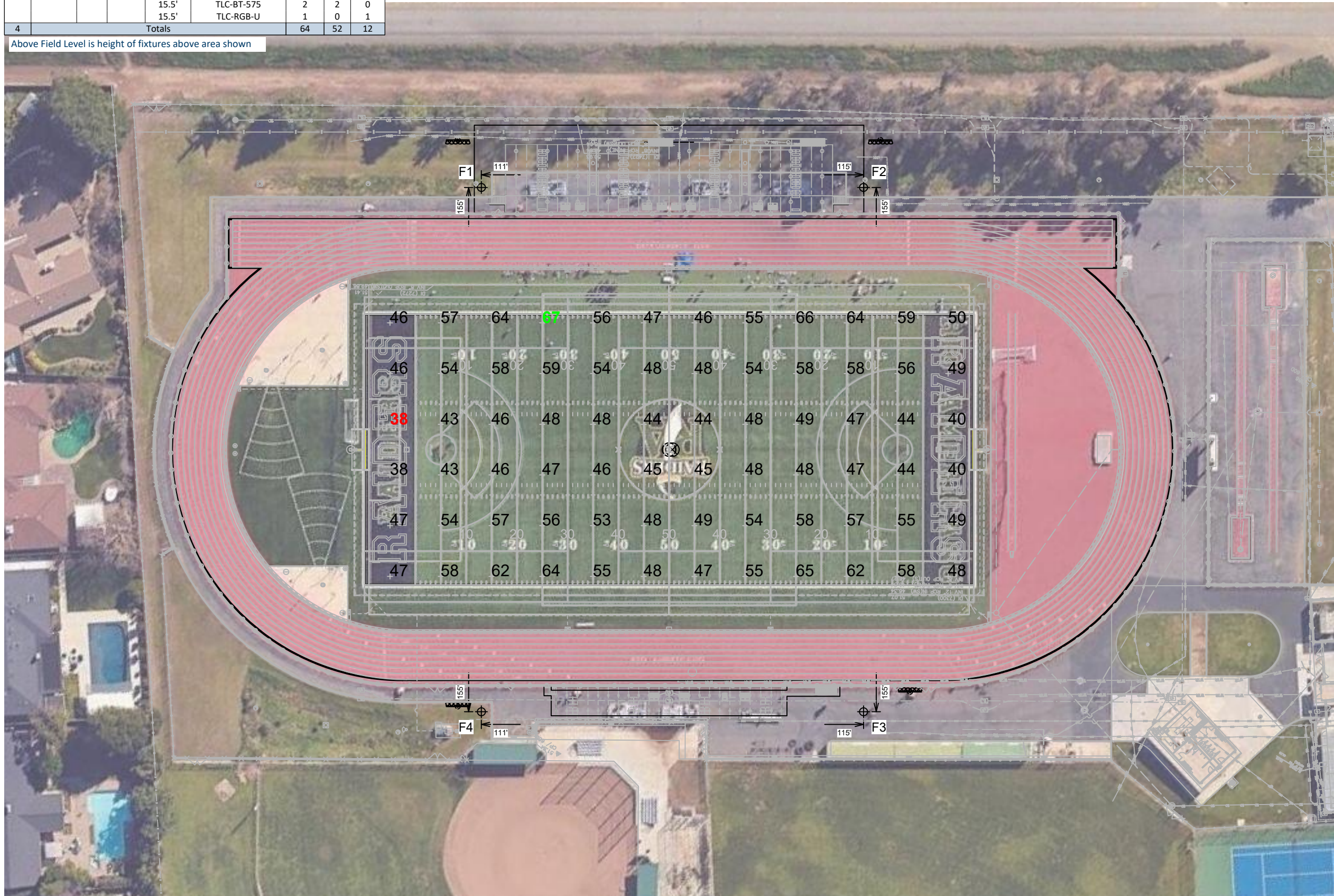
Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	0	1
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	52	12

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: Football

Size: 360' x 160'

Spacing: 30.0' x 30.0'

Height: 3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	50
Scan Average:	51.40
Maximum:	67
Minimum:	38
Avg/Min:	1.37
Guaranteed Max/Min:	2
Max/Min:	1.78
UG (adjacent pts):	1.26
CU:	0.57
No. of Points:	72
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	52
Total Load:	49.68 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.

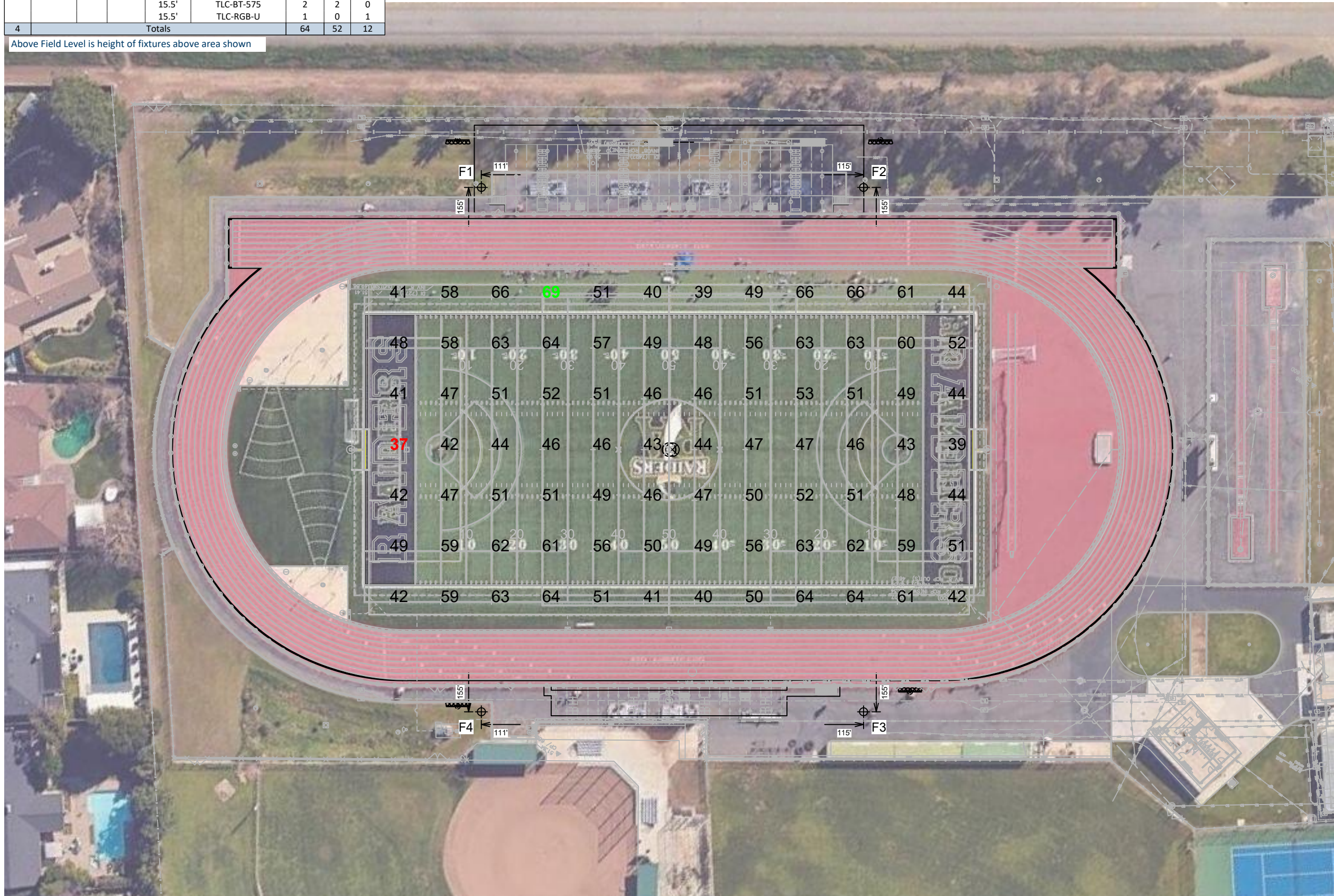
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	0	1
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	52	12

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Soccer
Size:	355' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Guaranteed Average:	50
Scan Average:	51.59
Maximum:	69
Minimum:	37
Avg/Min:	1.40
Guaranteed Max/Min:	2
Max/Min:	1.86
UG (adjacent pts):	1.45
CU:	0.66
No. of Points:	84
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	52
Total Load:	49.68 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.

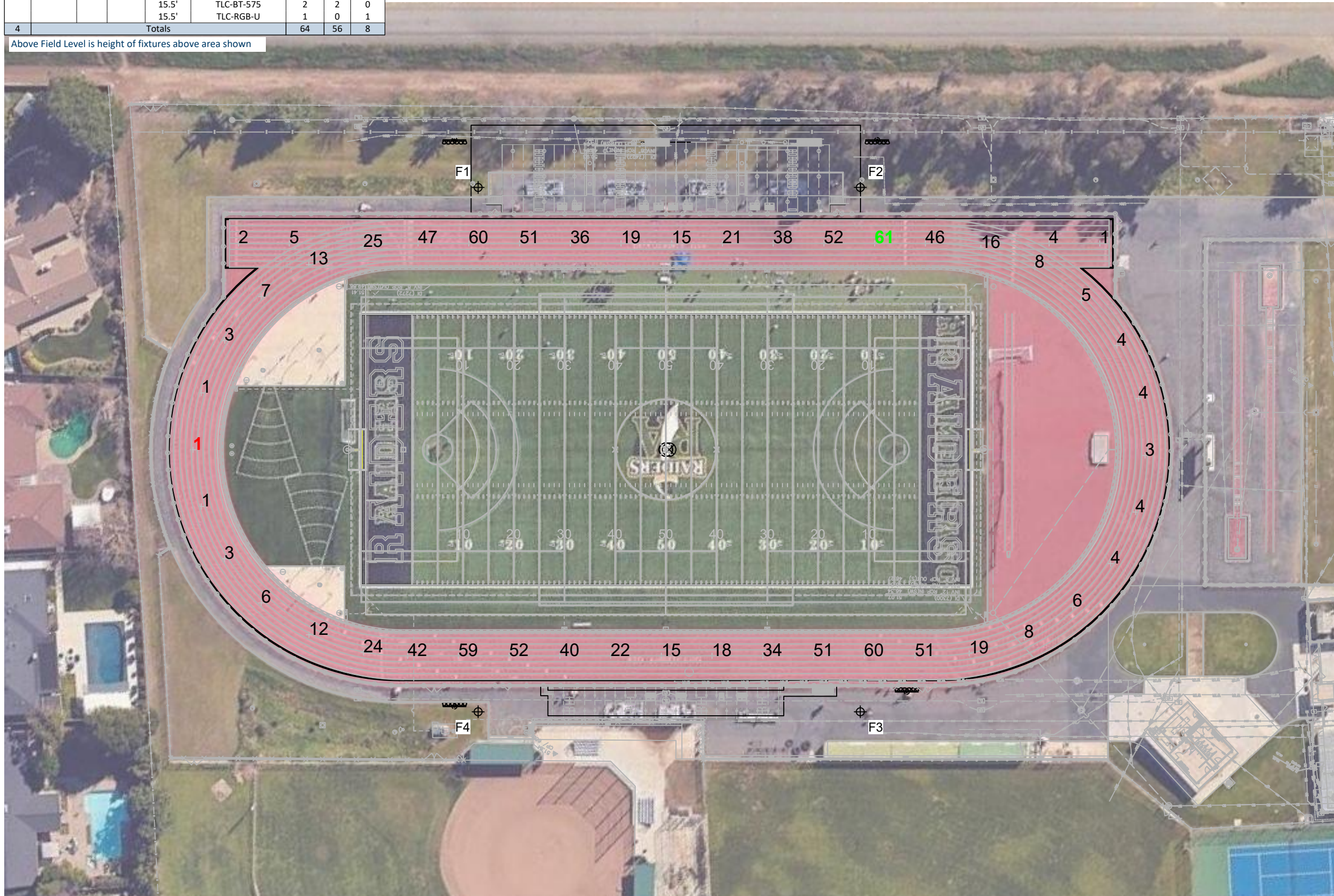
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	F1-F4	80'	-	80'	TLC-LED-1500	4	4	0
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	0	1
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown



**SCALE IN FEET 1 : 60**

ENGINEERED DESIGN By: William Isiminger • File #244133B • 21-Dec-25

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

Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Track
Size:	Irregular
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	22.48
Maximum:	61
Minimum:	1
Avg/Min:	39.74
Max/Min:	107.03
UG (adjacent pts):	0.00
CU:	0.15
No. of Points:	48
FIXTURE INFORMATION	
Applied Circuits:	A,D
No. of Fixtures:	56
Total Load:	55.32 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.



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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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown





SCALE IN FEET 1 : 30

0'

30'

60'

ENGINEERED DESIGN By: William Isiminger • File #244133B • 21-Dec-25

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

Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Home Bleacher
Size:	Irregular
Spacing:	10.0' x 10.0'

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	9.05
Maximum:	26
Minimum:	3
Avg/Min:	3.22
Max/Min:	9.42
UG (adjacent pts):	1.99
CU:	0.01
No. of Points:	76
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	56
Total Load:	52.24 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.



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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	F1-F4	80'	-	80'	TLC-LED-1500	4	0	4
				80'	TLC-LED-900	8	0	8
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	0	2
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	4	60

Above Field Level is height of fixtures above area shown





SCALE IN FEET 1 : 30

0'

30'

60'

ENGINEERED DESIGN By: William Isiminger • File #244133B • 21-Dec-25

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

Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Home Bleacher Egress
Size:	Irregular
Spacing:	10.0' x 10.0'

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	2.89
Maximum:	4
Minimum:	1
Avg/Min:	2.72
Max/Min:	3.66
UG (adjacent pts):	1.67
CU:	0.23
No. of Points:	76
FIXTURE INFORMATION	
Applied Circuits:	B
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.

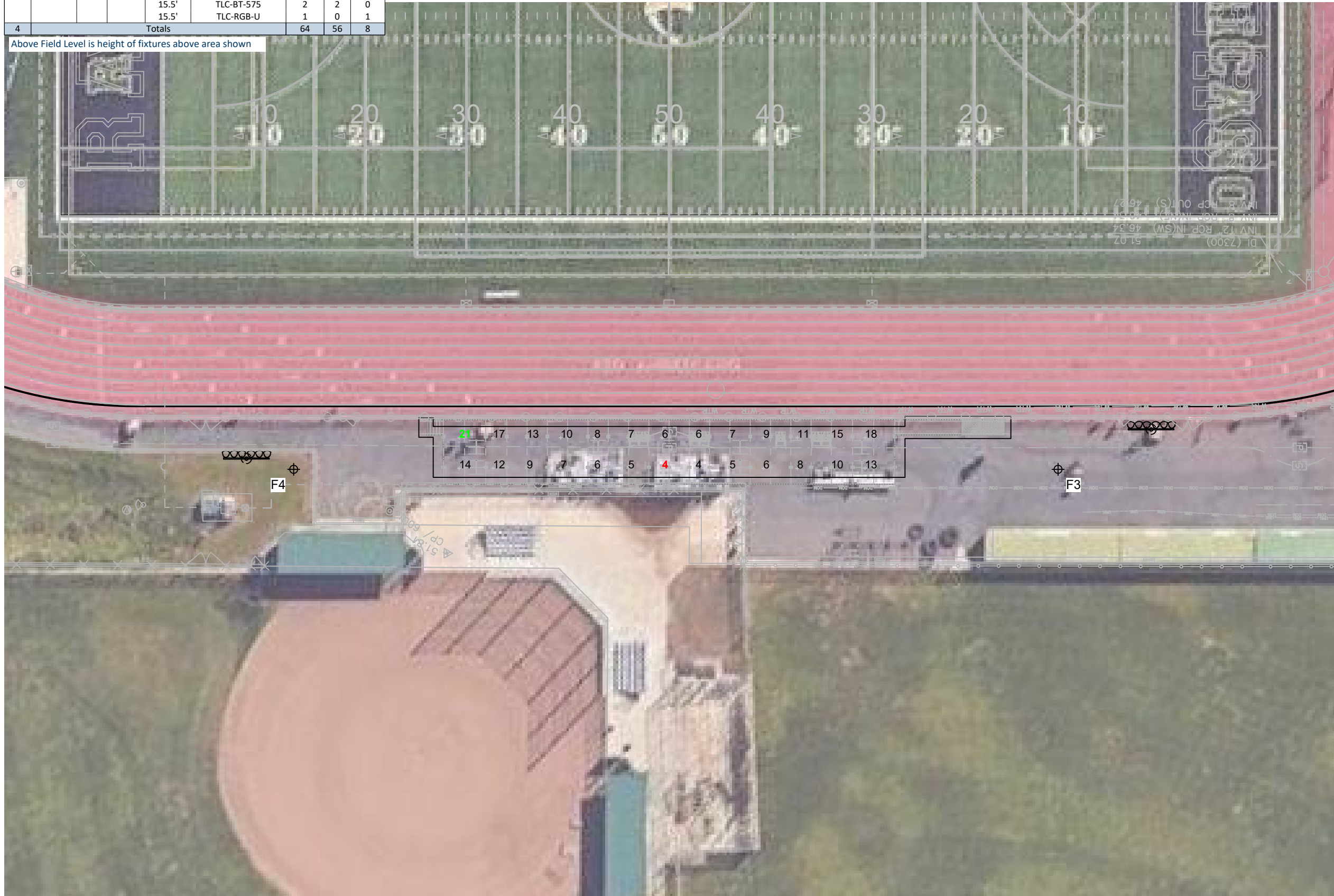


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ILLUMINATION SUMMARY

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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Visitor Bleacher
Size:	Irregular
Spacing:	10.0' x 10.0'

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	9.63
Maximum:	21
Minimum:	4
Avg/Min:	2.45
Max/Min:	5.33
UG (adjacent pts):	1.51
CU:	0.00
No. of Points:	26
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	56
Total Load:	52.24 kW

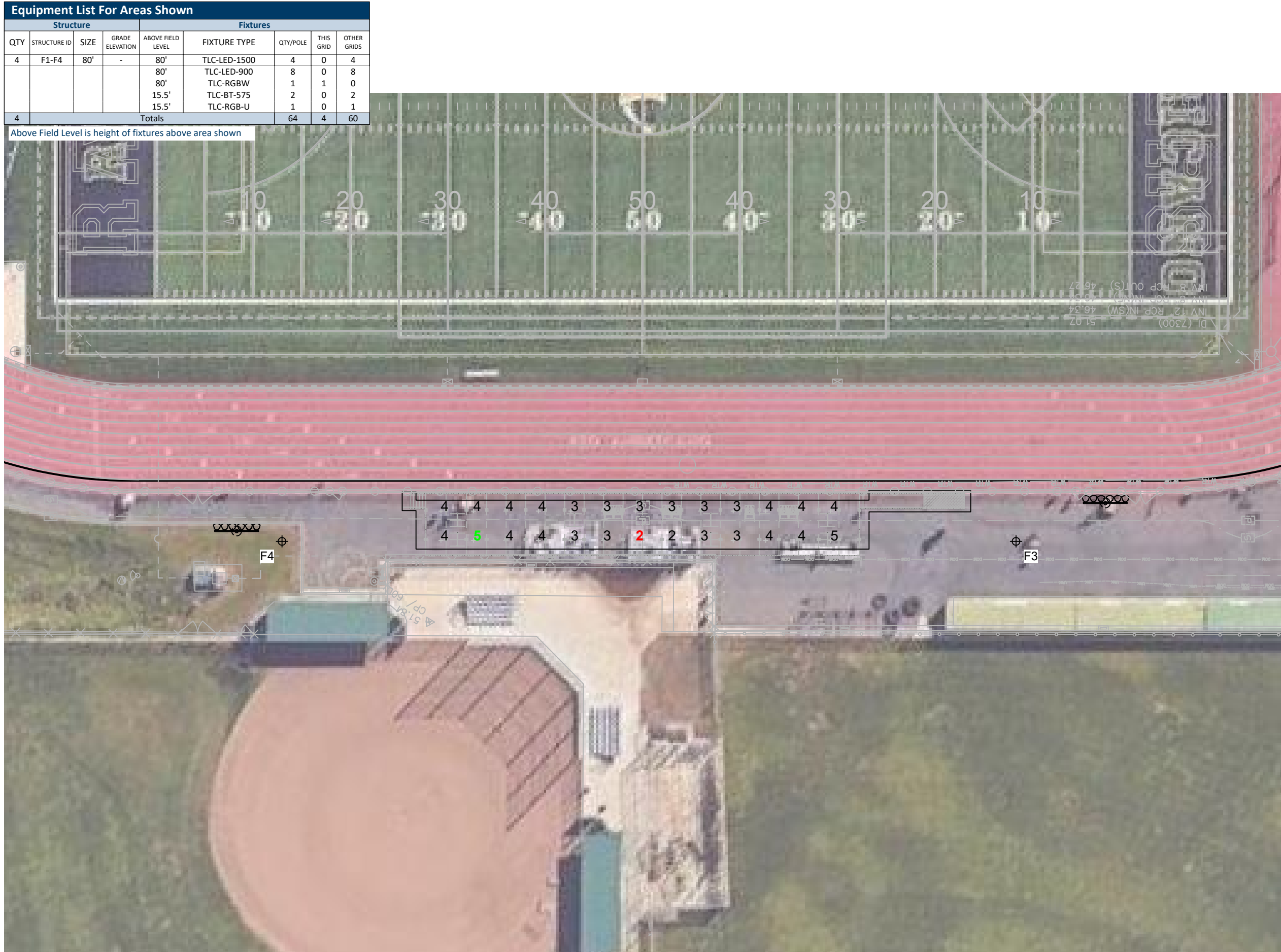
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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





Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Visitor Bleacher Egress
Size:	Irregular
Spacing:	10.0' x 10.0'

Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	3.48
Maximum:	5
Minimum:	2
Avg/Min:	1.53
Max/Min:	2.00
UG (adjacent pts):	1.21
CU:	0.08
No. of Points:	26
FIXTURE INFORMATION	
Applied Circuits:	B
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.

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ILLUMINATION SUMMARY

Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: PL Spill @ 3ft
Size: Irregular
Spacing: 30.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

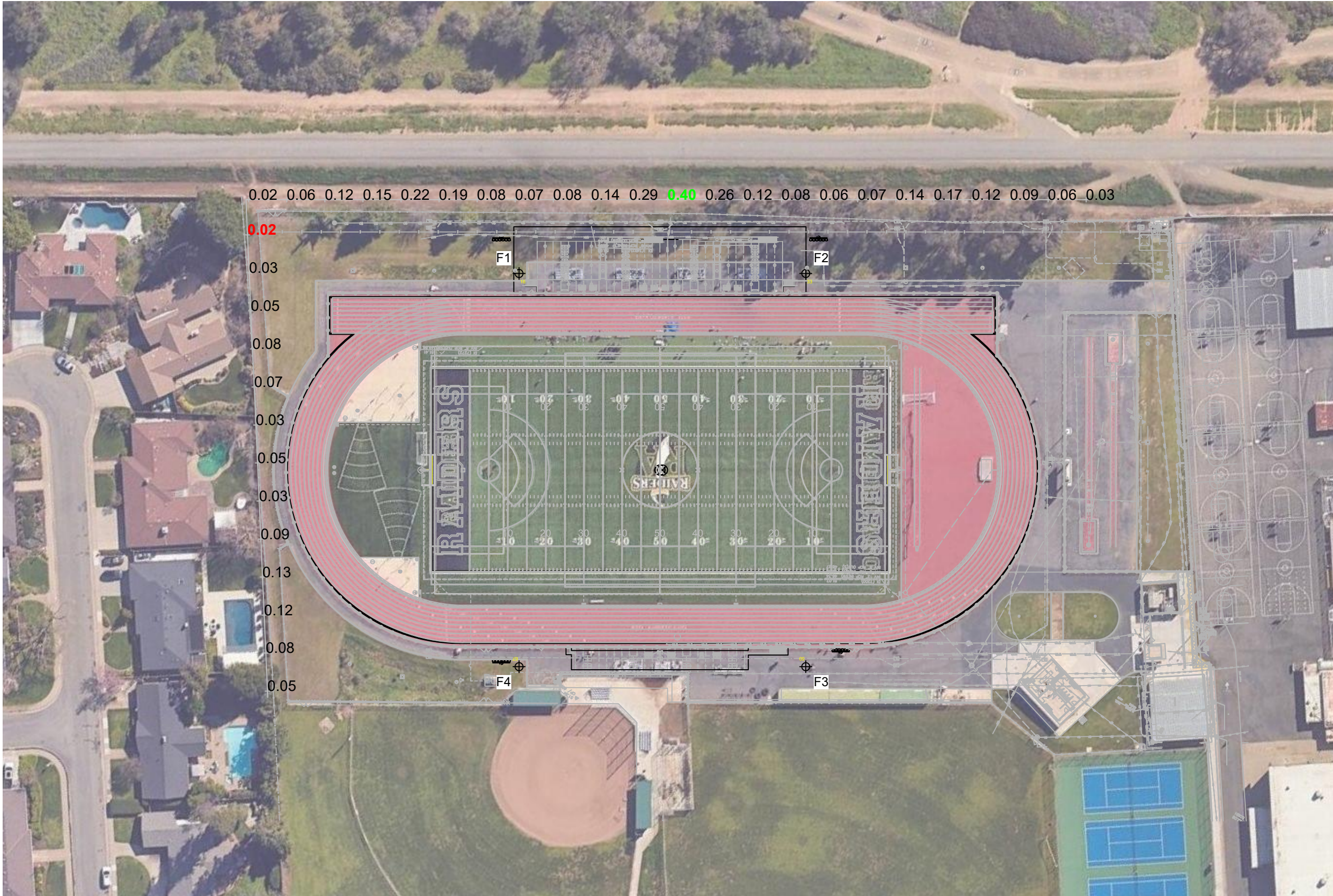
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average:	0.11
Maximum:	0
Minimum:	0
No. of Points:	36
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 kW

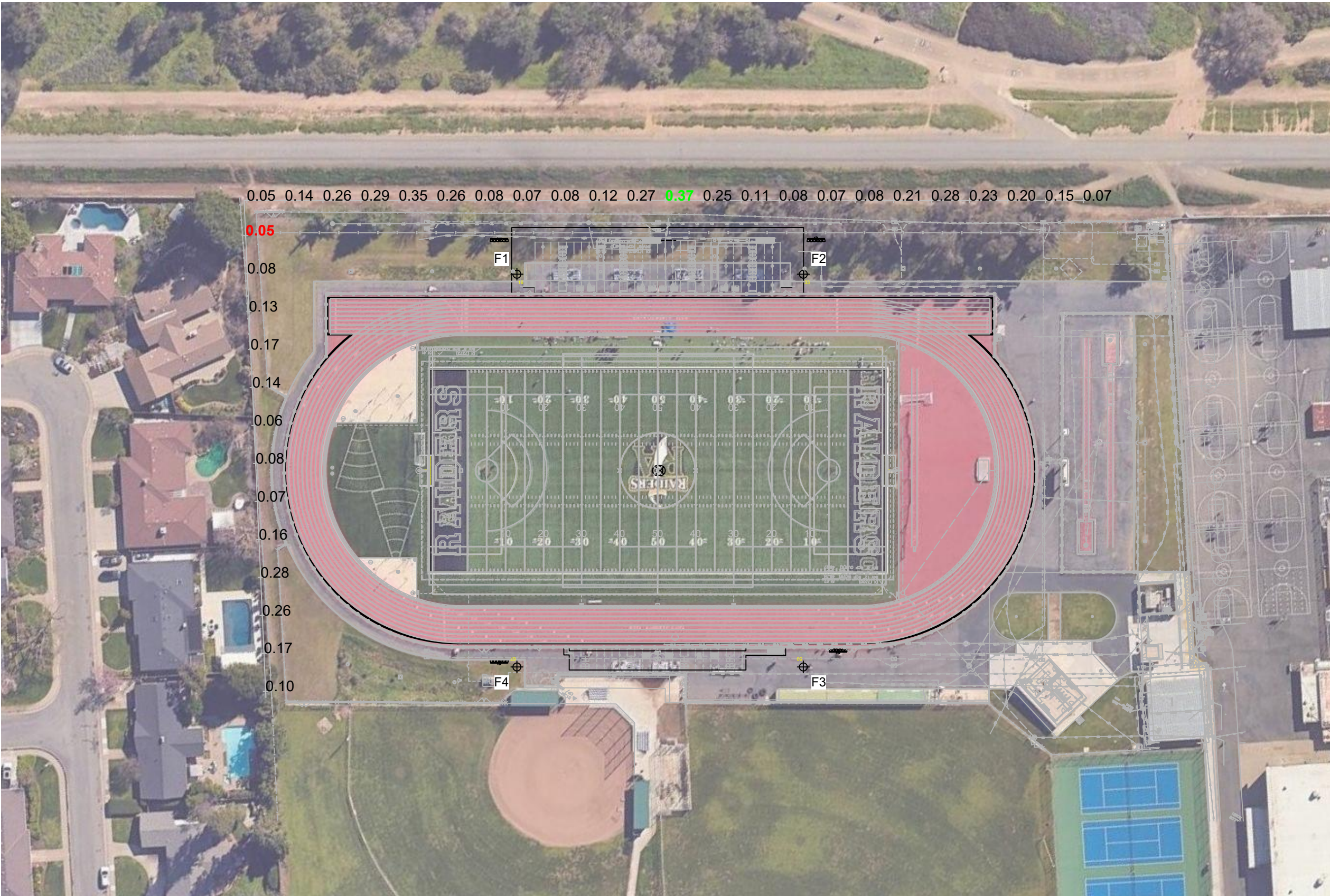
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Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: PL Spill @ 5ft.
Size: Irregular
Spacing: 30.0' x 10.0'
Height: 5.0' above grade

Illumination Summary

MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average:	0.16
Maximum:	0
Minimum:	0
No. of Points:	36
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 kW

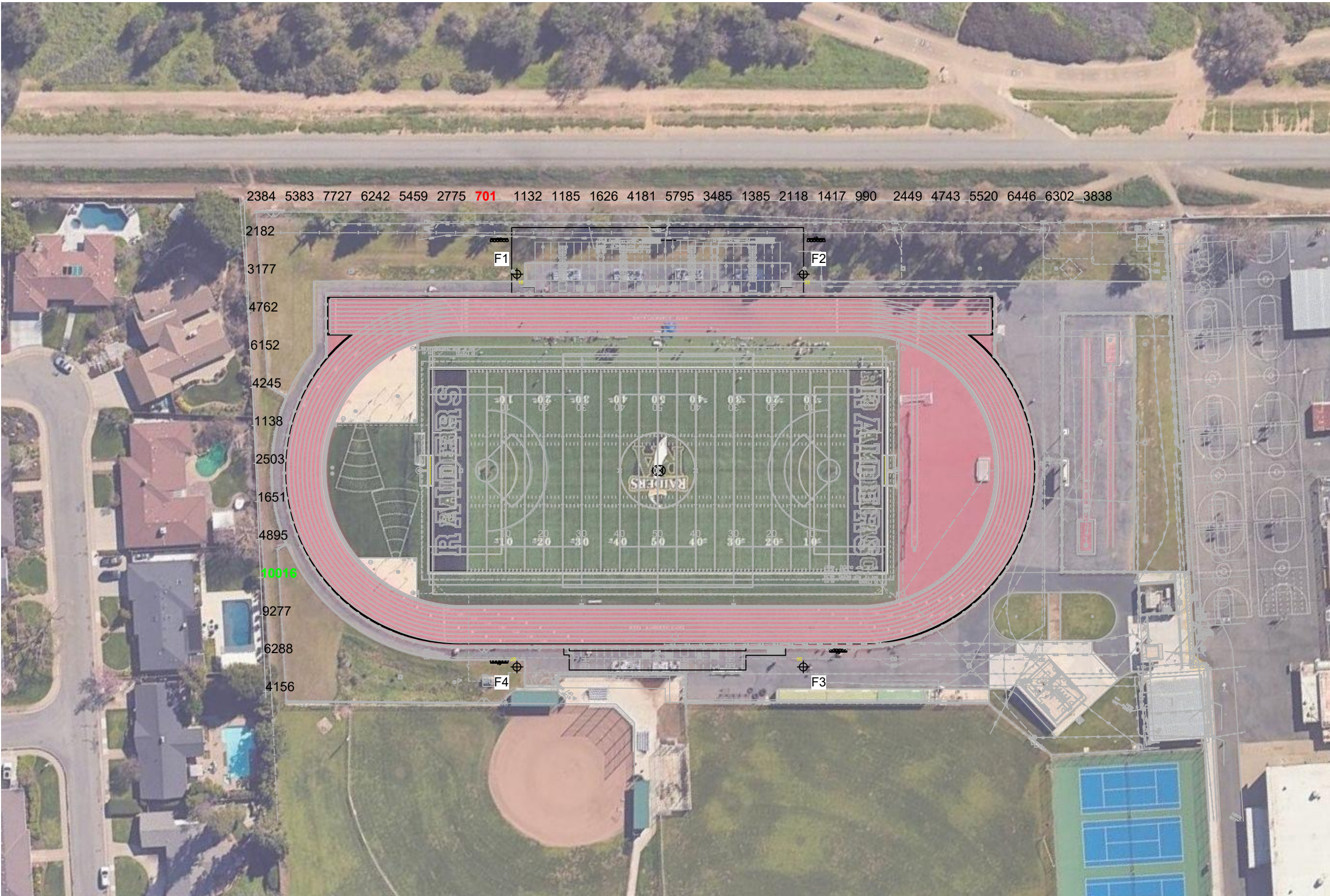
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Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	PL Spill @ 5ft.
Size:	Irregular
Spacing:	30.0' x 10.0'
Height:	5.0' above grade

Illumination Summary	
	MAINTAINED MAX CANDELA (PER FIXTURE)
	Entire Grid
Scan Average:	3992.28
Maximum:	10016
Minimum:	701
No. of Points:	36
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 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.

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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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Soccer Spill @ 3ft.
Spacing:	30.0'
Height:	3.0' above grade

Illumination Summary	
	INITIAL HORIZONTAL FOOTCANDLES
Scan Average:	0.0052
Maximum:	0.02
Minimum:	0.00
CU:	0.00
No. of Points:	68
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	56
Total Load:	52.24 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.



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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary	
Name:	Soccer Spill @ 5ft.
Spacing:	30.0'
Height:	5.0' above grade

Illumination Summary	
	INITIAL CANDELA (PER FIXTURE)
Scan Average:	Entire Grid 324.5377
Maximum:	992.12
Minimum:	1.59
CU:	0.00
No. of Points:	68
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	56
Total Load:	52.24 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.



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	F1-F4	80'	-	80'	TLC-LED-1500	4	3	1
				80'	TLC-LED-900	8	8	0
				80'	TLC-RGBW	1	1	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-RGB-U	1	0	1
4	Totals					64	56	8

Above Field Level is height of fixtures above area shown



Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: Soccer Spill @ 5ft.

Spacing: 30.0'

Height: 5.0' above grade

Illumination Summary	
	INITIAL MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0112
Maximum:	0.04
Minimum:	0.00
CU:	0.00
No. of Points:	68
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	56
Total Load:	52.24 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.



Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: Spill @ 3ft.
Spacing: 30.0'
Height: 3.0' above grade

Illumination Summary

	Entire Grid
Scan Average:	0.0033
Maximum:	0.02
Minimum:	0.00
No. of Points:	82
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 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.





Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: Spill @ 5ft.
Spacing: 30.0'
Height: 5.0' above grade

Illumination Summary

	INITIAL CANDELA (PER FIXTURE)
Entire Grid	
Scan Average:	470.5331
Maximum:	2749.24
Minimum:	0.00
No. of Points:	82
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 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.



Rio Americano High School Stadium

Sacramento,CA

Grid Summary

Name: Spill @ 5ft.
Spacing: 30.0'
Height: 5.0' above grade

Illumination Summary

	INITIAL MAX VERTICAL FOOTCANDLES
Entire Grid	
Scan Average:	0.0086
Maximum:	0.05
Minimum:	0.00
No. of Points:	82
FIXTURE INFORMATION	
Applied Circuits:	A,B,C,D
No. of Fixtures:	64
Total Load:	59.60 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.





Rio Americano High School Stadium

Sacramento,CA

Equipment Layout

INCLUDES:
· Football
· Soccer
· Track

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

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
4	F1-F4	80'	-	80'	TLC-LED-1500	4
				80'	TLC-LED-900	8
				15.5'	TLC-RGBW	1
				15.5'	TLC-BT-575	2
4				15.5'	TLC-RGB-U	1
				Totals		64

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)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-RGB-U	3.0	2.9	2.6	2.3	1.8	1.6	1.3
TLC-RGBW	4.5	4.3	3.8	3.3	2.7	2.5	1.9

