

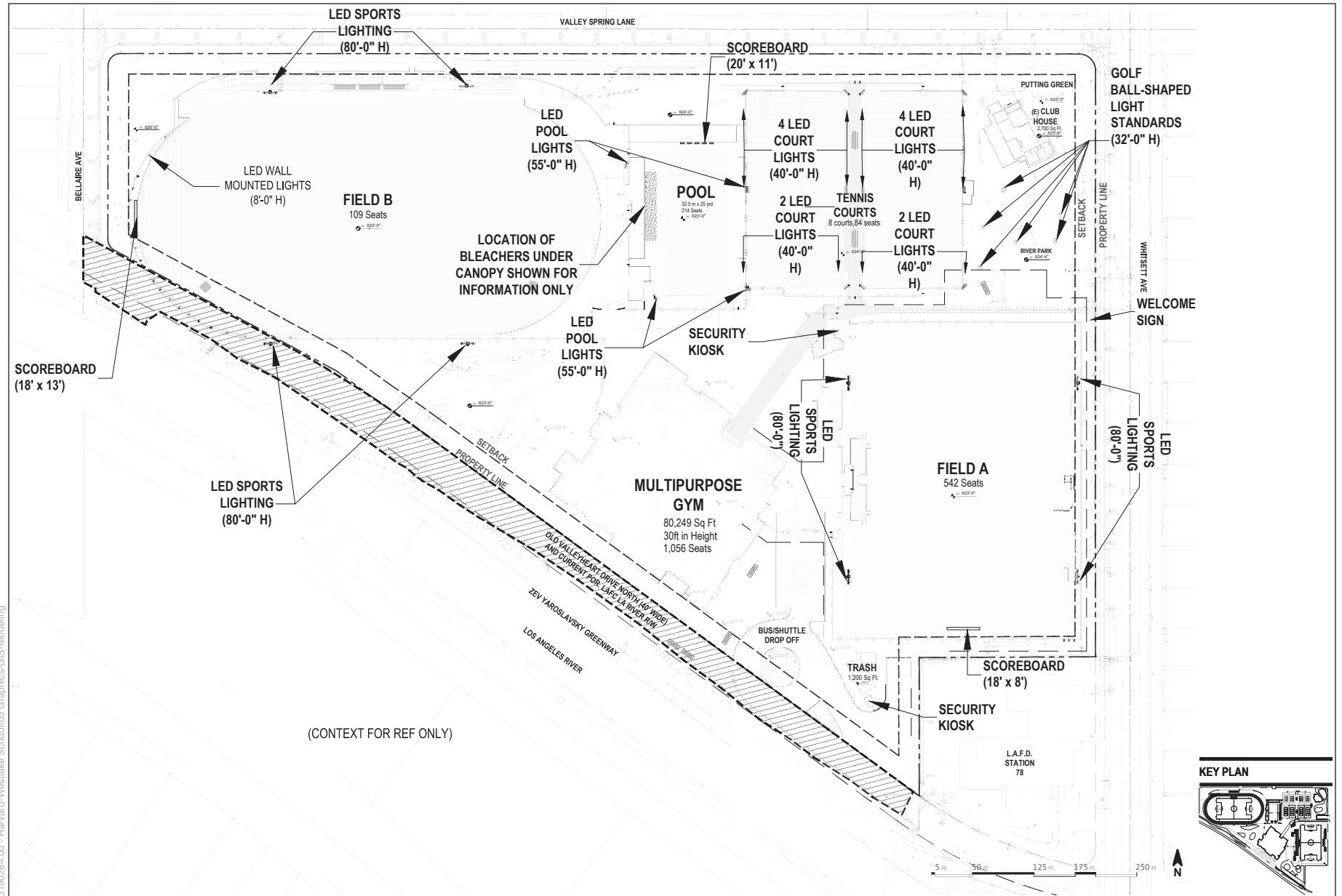
Appendix B.2
**Supplemental Lighting Report
Appendices**



SOURCE: Gensler, 2022

Harvard-Westlake River Park Project

Figure II-6
Harvard-Westlake School Athletic and Recreational Facilities Conceptual Site Plan



SOURCE: Gensler 2022

Harvard-Westlake River Park Project

Figure II-27
Light and Signage Plan for the Project

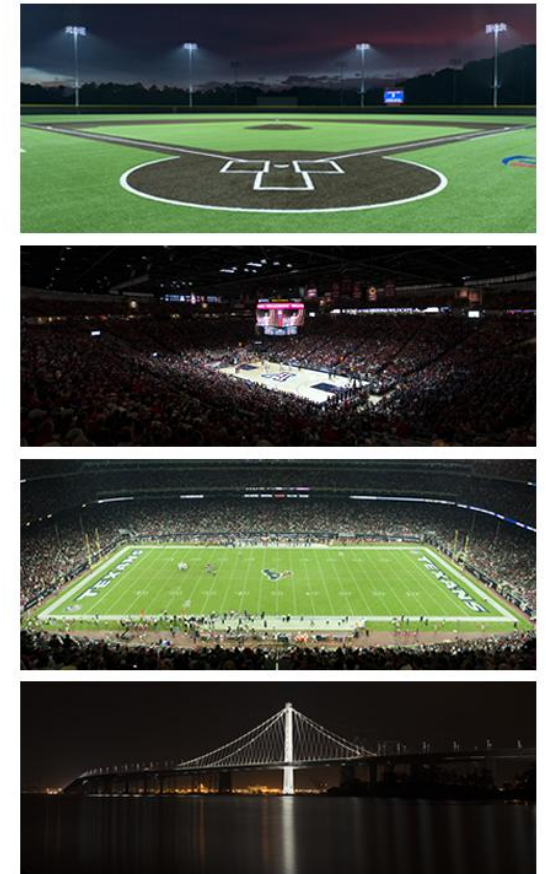
Harvard Westlake Athletic Complex

Studio City, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
M1-M12	--	8'	1	CREE OSQ	0.10 kW	H
P1	55'	55'	2	TLC-LED-600	1.16 kW	B
		55'	1	TLC-LED-900	0.89 kW	J
P2	55'	55'	1	TLC-LED-900	0.89 kW	B
		55'	1	TLC-LED-600	0.58 kW	B
		55'	1	TLC-LED-600	0.58 kW	J
		55'	2	TLC-LED-900	1.78 kW	B
		40'	2	TLC-LED-600	1.16 kW	D
P3-P4	55'	40'	1	TLC-LED-900	0.89 kW	D
		55'	1	TLC-LED-600	0.58 kW	B
		55'	2	TLC-LED-900	1.78 kW	B
P3(T)	40'	55'	1	TLC-LED-900	0.89 kW	J
		40'	2	TLC-LED-600	1.16 kW	D
		40'	2	TLC-LED-600	1.16 kW	C
		40'	1	TLC-LED-900	0.89 kW	D
S1-S2	80'	40'	1	TLC-LED-900	0.89 kW	C
		80'	6	TLC-LED-1200	7.02 kW	A
		80'	1	TLC-LED-1500	1.43 kW	A
		80'	1	TLC-LED-400	0.40 kW	I
		80'	1	TLC-LED-900	0.89 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
S3	80'	80'	2	TLC-LED-1200	2.34 kW	A
		80'	7	TLC-LED-900	6.23 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
S4	80'	80'	2	TLC-LED-1200	2.34 kW	A
		80'	2	TLC-LED-600	1.16 kW	A
		80'	5	TLC-LED-900	4.45 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
S5-S8	80'	80'	8	TLC-LED-1500	11.44 kW	G
		80'	1	TLC-LED-400	0.40 kW	K
		80'	7	TLC-LED-900	6.23 kW	G
T1-T2	40'	16'	2	TLC-BT-575	1.15 kW	G
		40'	2	TLC-LED-600	1.16 kW	C
T3	40'	40'	1	TLC-LED-900	0.89 kW	C
		40'	2	TLC-LED-600	1.16 kW	C
		40'	2	TLC-LED-600	1.16 kW	D
		40'	1	TLC-LED-900	0.89 kW	C
T4	40'	40'	1	TLC-LED-900	0.89 kW	D
		40'	2	TLC-LED-600	1.16 kW	D
		40'	1	TLC-LED-900	0.89 kW	D
T5-T6	40'	40'	2	TLC-LED-600	1.16 kW	E
		40'	1	TLC-LED-900	0.89 kW	E
		40'	2	TLC-LED-600	1.16 kW	F
T7	40'	40'	2	TLC-LED-600	1.16 kW	E
		40'	2	TLC-LED-600	1.16 kW	E
		40'	1	TLC-LED-900	0.89 kW	F
		40'	1	TLC-LED-900	0.89 kW	E
T8	40'	40'	2	TLC-LED-600	1.16 kW	E
		40'	2	TLC-LED-600	1.16 kW	F
		40'	1	TLC-LED-900	0.89 kW	E
		40'	1	TLC-LED-900	0.89 kW	F
		40'	1	TLC-LED-900	0.89 kW	F
T9-T10	40'	40'	2	TLC-LED-600	1.16 kW	F
		40'	1	TLC-LED-900	0.89 kW	F
35			192		163.91 kW	

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Harvard Westlake Athletic Complex

Studio City, CA

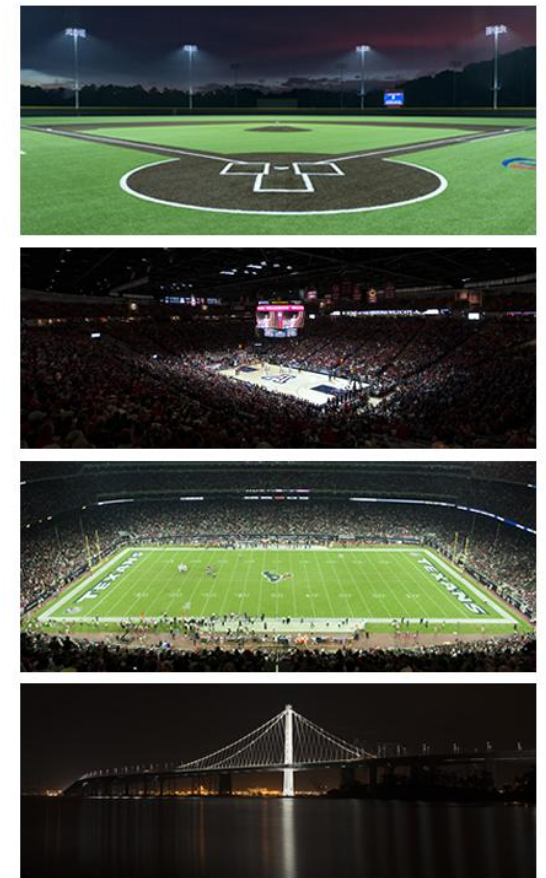
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Soccer	39.8 kW	42
B	Pool	9.13 kW	12
C	Tennis 1-2	8.2 kW	12
D	Tennis 3-4	8.2 kW	12
E	Tennis 5-6	8.2 kW	12
F	Tennis 7-8	8.2 kW	12
G	Soccer 2	75.28 kW	68
H	Track	1.25 kW	12
I	Upper Soccer Egress	0.8 kW	2
J	Pool/Pool Egress	3.25 kW	4
K	Lower Soccer Egress	1.6 kW	4

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	40
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	68
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	136,000	>120,000	>120,000	>120,000	16
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	34
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	6
CREE OSQ	LED 5700K - 70 CRI	104W	12,573	--	--	--	12

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Blanket Spill Grid	Horizontal	0.25	0	13	0.00		A,B,C,D,E, F,G,H	182
Blanket Spill Grid	Max Candela (by Fixture)	5627	0	646751	0.00		A,B,C,D,E, F,G,H	182
Blanket Spill Grid	Max Vert Illuminance (by Light Bank)	0.38	0	22	0.00		A,B,C,D,E, F,G,H	182
Field A	Horizontal Illuminance	72.6	60	80	1.33	1.21	G	68
Field B	Horizontal Illuminance	32.6	23	46	1.95	1.42	A	42
Jumping Areas	Horizontal	12.9	1	38	33.29	12.91	H,A	54
Lower Soccer Egress - Away	Horizontal	5.91	4	8	2.15	1.48	K	4
Lower Soccer Egress - Home	Horizontal	5.29	1	8	11.64	5.29	K	4
Pool Egress	Horizontal	9.70	1	26	18.03	9.70	J	4
Pool	Horizontal Illuminance	38.2	23	53	2.29	1.66	B	12
Property Line Spill	Horizontal	0.01	0	0.14	0.00		A,B,C,D,E, F,G,H	182
Property Line Spill	Max Candela (by Fixture)	637	0.64	3574	5599.02	995.17	A,B,C,D,E, F,G,H	182
Property Line Spill	Max Vertical Illuminance Metric	0.02	0	0.19	0.00		A,B,C,D,E, F,G,H	182
Rio Spill 15' Offset	Horizontal	0.01	0	0.01	0.00		A,B,C,D,E, F,G,H	182
Rio Spill 15' Offset	Max Candela (by Fixture)	829	0	2305	0.00		A,B,C,D,E, F,G,H	182
Rio Spill 15' Offset	Max Vertical Illuminance Metric	0.02	0	0.05	0.00		A,B,C,D,E, F,G,H	182
Rio Spill	Horizontal	0.01	0	0.05	0.00		A,B,C,D,E, F,G,H	182
Rio Spill	Max Candela (by Fixture)	1052	0	3529	0.00		A,B,C,D,E, F,G,H	182
Rio Spill	Max Vertical Illuminance Metric	0.03	0	0.08	0.00		A,B,C,D,E, F,G,H	182
Tennis 1-2	Horizontal Illuminance	56.4	40	65	1.65	1.41	C	12
Tennis 3-4	Horizontal Illuminance	56.2	42	68	1.60	1.34	D	12
Tennis 5-6	Horizontal Illuminance	57.3	40	68	1.72	1.43	E	12

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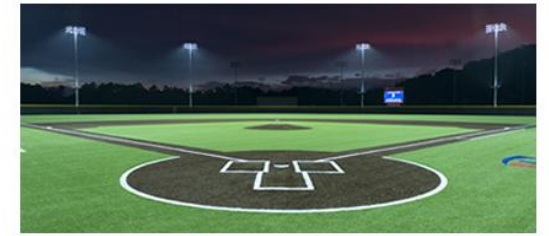
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Harvard Westlake Athletic Complex

Studio City, CA

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Tennis 7-8	Horizontal Illuminance	57.5	41	69	1.70	1.40	F	12
Track	Horizontal Illuminance	12.8	1	29	20.96	12.78	A,H	54
Upper Soccer Egress	Horizontal	6.97	4	10	2.73	1.74	I	2

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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	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0	
				80'	TLC-LED-900	1	1	0	
				80'	TLC-LED-400	1	0	1	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	6	6	0	
1	S3	80'	-	80'	TLC-LED-1200	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				80'	TLC-LED-900	7	7	0	
1	S4	80'	-	80'	TLC-LED-900	5	5	0	
				80'	TLC-LED-1200	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				80'	TLC-LED-600	2	2	0	
4	TOTALS					44	42	2	

GRID SUMMARY	
Name:	Field B
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

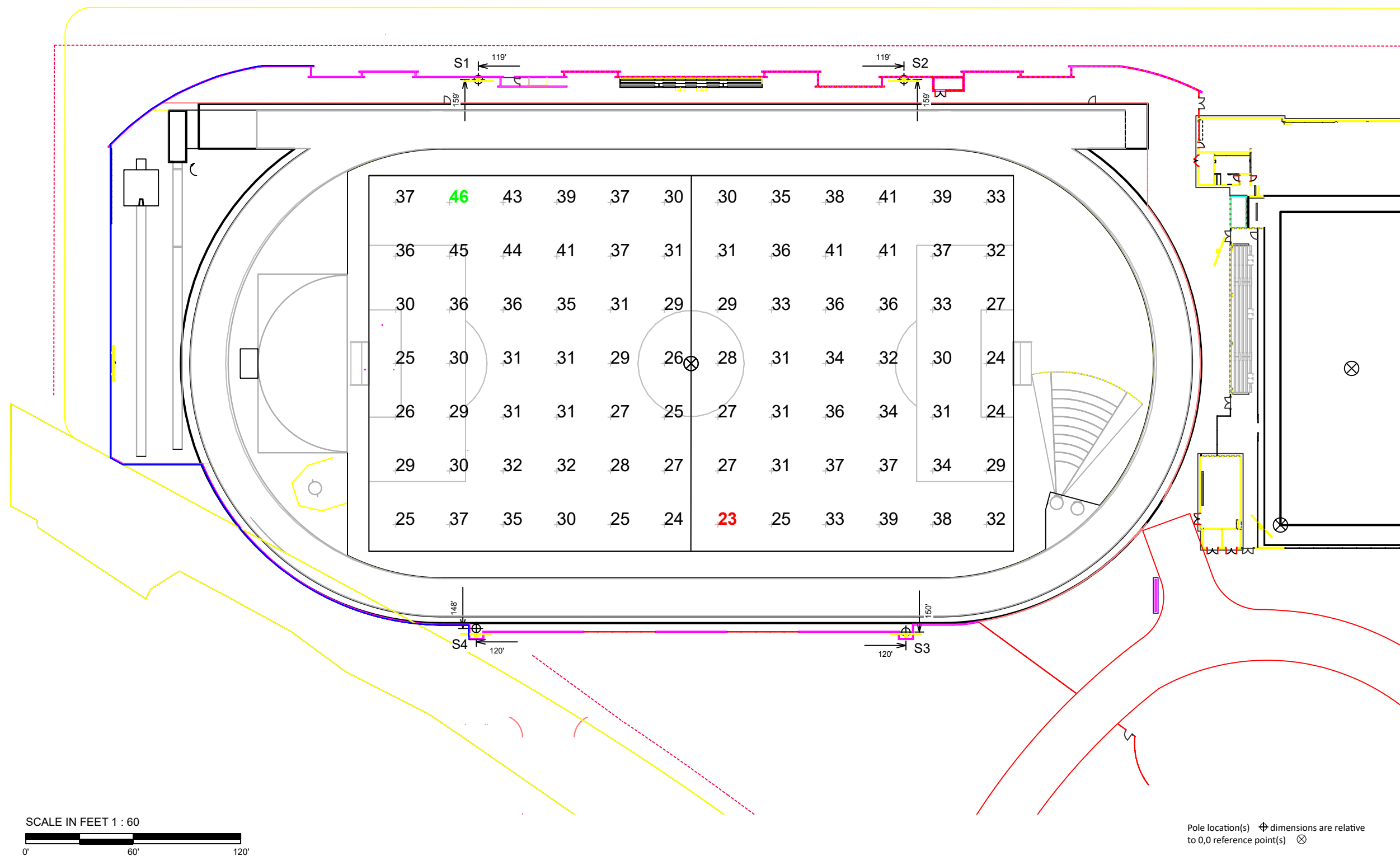
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	32.56
Maximum:	46
Minimum:	23
Avg / Min:	1.39
Guaranteed Max / Min:	2.5
Max / Min:	1.95
UG (adjacent pts):	1.44
CU:	0.57
No. of Points:	84
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	42
Total Load:	39.8 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.



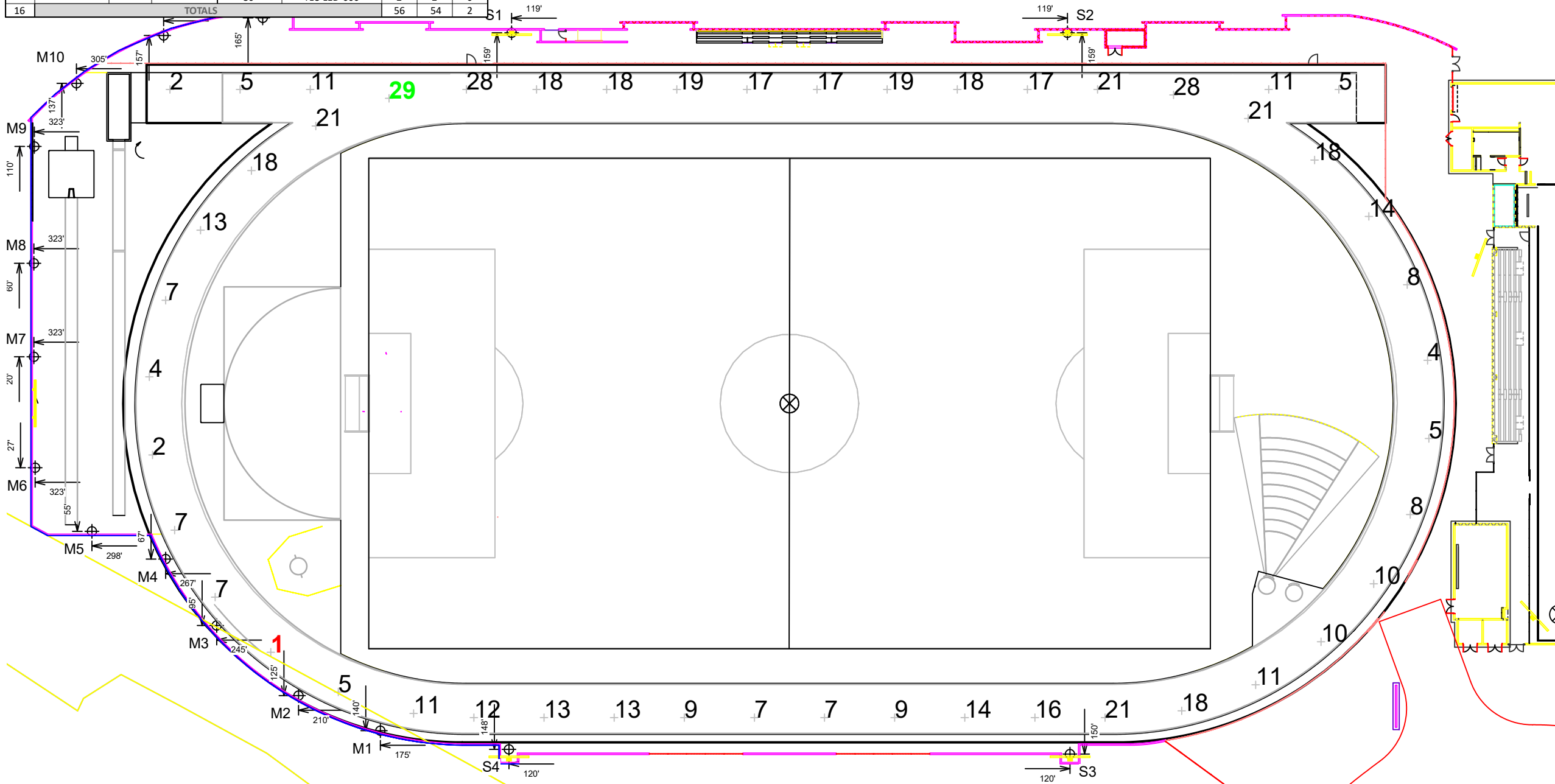
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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
12	M1-M12	80'	8'	80'	CREE OSQ	1	1	0
2	S1-S2	80'	-	80'	TLC-LED-1500	1	1	0
				80'	TLC-LED-900	1	1	0
				80'	TLC-LED-400	1	0	1
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	6	6	0
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0
				15.52'	TLC-BT-575	2	2	0
				80'	TLC-LED-900	7	7	0
1	S4	80'	0'	80'	TLC-LED-900	5	5	0
				80'	TLC-LED-1200	2	2	0
				15.52'	TLC-BT-575	2	2	0
				80'	TLC-LED-600	2	2	0
16	TOTALS					56	54	2

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:	12.78
Maximum:	29
Minimum:	1
Avg / Min:	9.18
Max / Min:	20.96
UG (adjacent pts):	0.00
CU:	0.13
No. of Points:	49

LUMINAIRE INFORMATION	
Applied Circuits:	A, H
No. of Luminaires:	54
Total Load:	41.05 kW

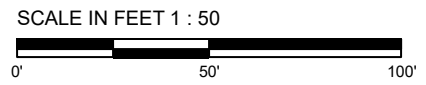


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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) ⊕ 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
12	M1-M12		8'	8'	CREE OSQ	1	1	0
2	S1-S2	80'	-	80'	TLC-LED-1500	1	1	0
				80'	TLC-LED-900	1	1	0
				80'	TLC-LED-400	1	0	1
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	6	6	0
				80'	TLC-LED-1200	2	2	0
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0
				15.52'	TLC-BT-575	2	2	0
				80'	TLC-LED-900	7	7	0
1	S4	80'	0'	80'	TLC-LED-900	5	5	0
				80'	TLC-LED-1200	2	2	0
				15.52'	TLC-BT-575	2	2	0
				80'	TLC-LED-600	2	2	0
16	TOTALS					56	54	2

Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Jumping Areas
Size:	Irregular
Spacing:	20.0' x 20.0'
Height:	0.0' above grade

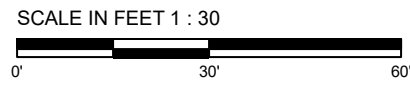
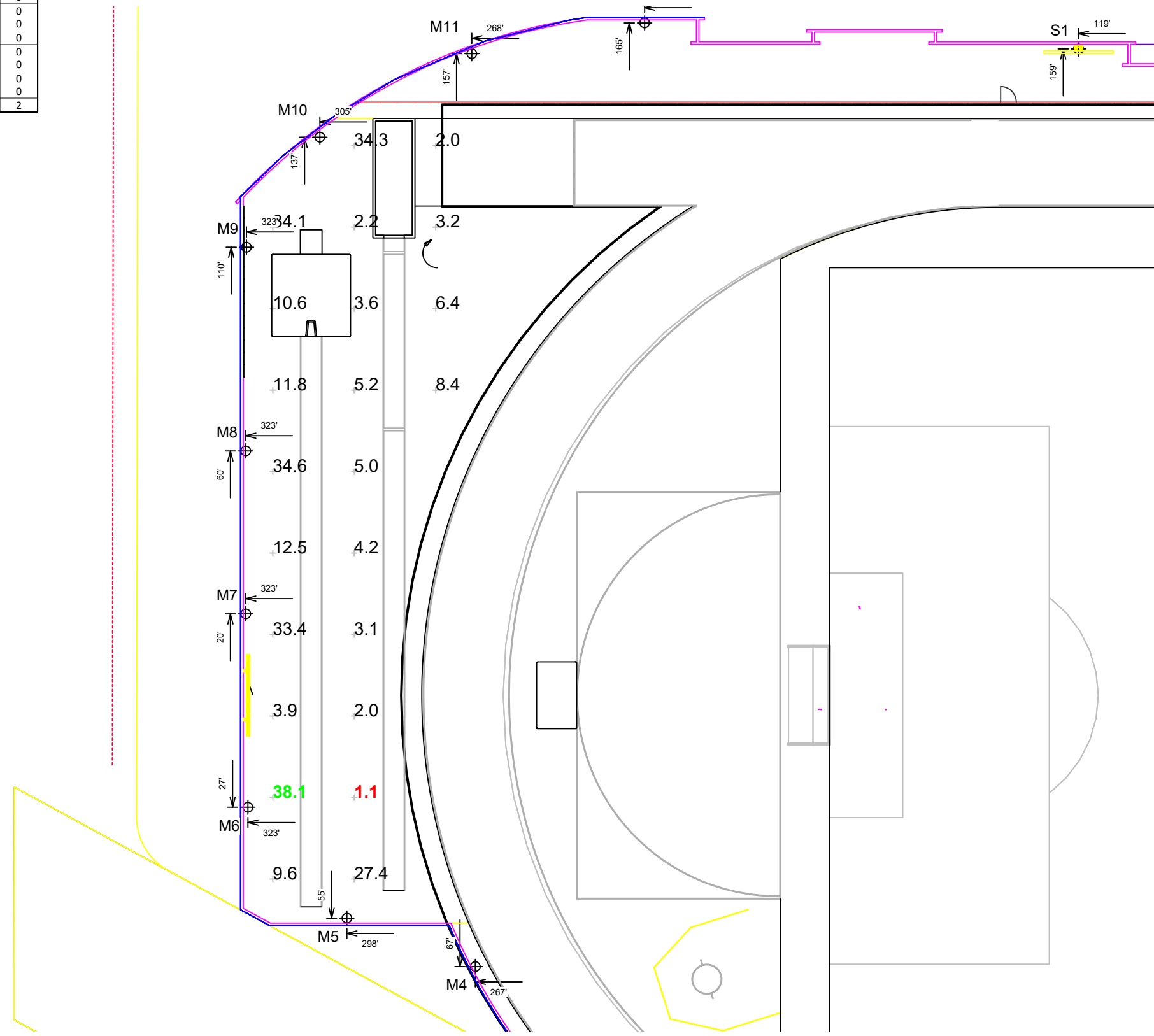
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	12.91
Maximum:	38
Minimum:	1
Avg / Min:	11.27
Max / Min:	33.29
UG (adjacent pts):	33.29
CU:	0.03
No. of Points:	23
LUMINAIRE INFORMATION	
Applied Circuits:	A, H
No. of Luminaires:	54
Total Load:	41.05 kW

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) ⊕ 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	
1	P1	55'	-	55'	TLC-LED-900	2	1	1	
				55'	TLC-LED-600	2	2	0	
1	P2	55'	-	55'	TLC-LED-900	2	2	0	
				40'	TLC-LED-900	1	0	1	
				40'	TLC-LED-600	2	0	2	
				55'	TLC-LED-600	2	1	1	
2	P3(P), P4	55'	-	55'	TLC-LED-600	1	1	0	
				55'	TLC-LED-900	3	2	1	
4	TOTALS						19	12	7

GRID SUMMARY	
Name:	Pool
Size:	175' x 80'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

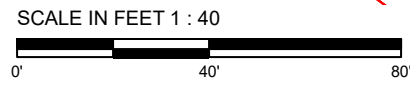
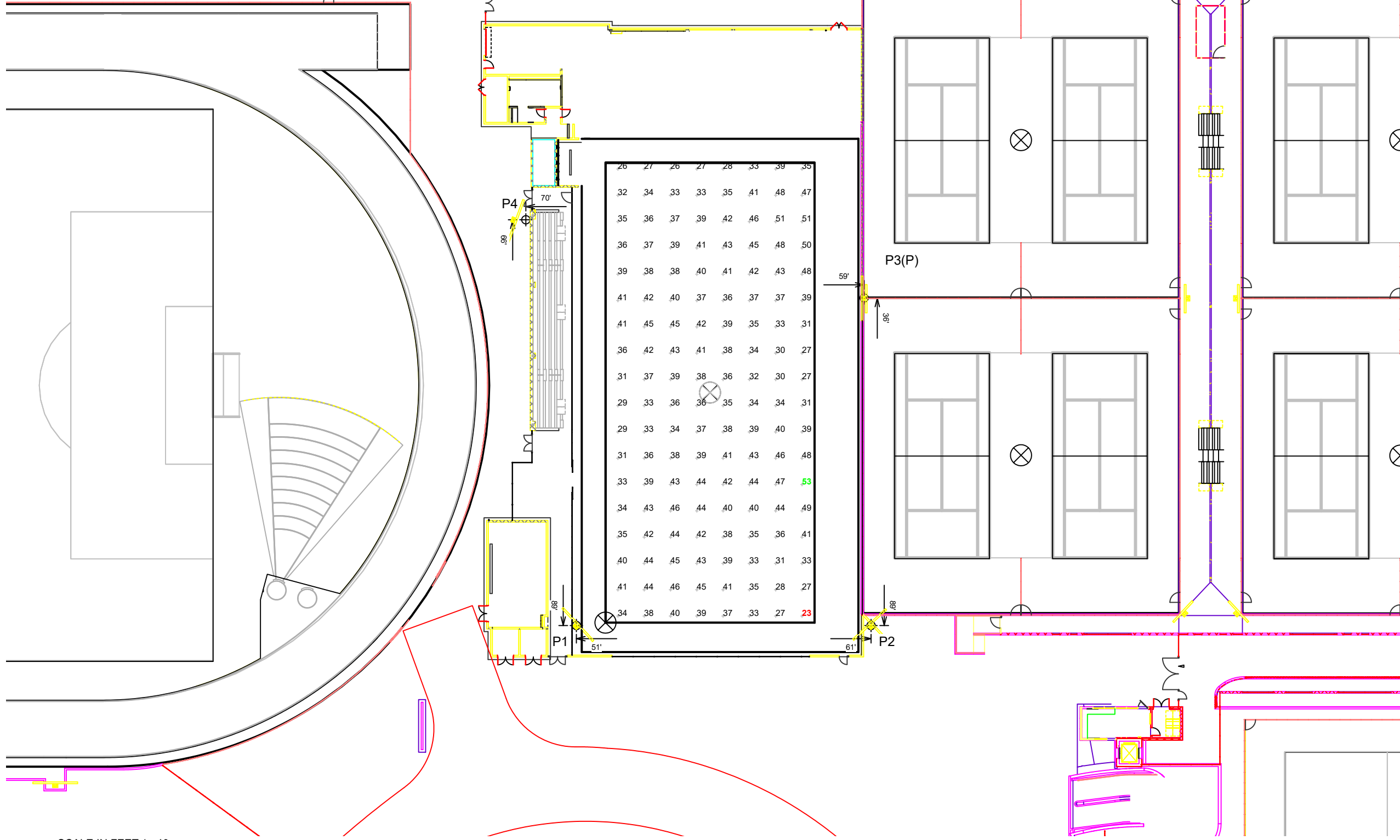
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	38.16
Maximum:	53
Minimum:	23
Avg / Min:	1.65
Guaranteed Max / Min:	2
Max / Min:	2.29
UG (adjacent pts):	1.33
CU:	0.57
No. of Points:	144
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	12
Total Load:	9.13 kW

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

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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.



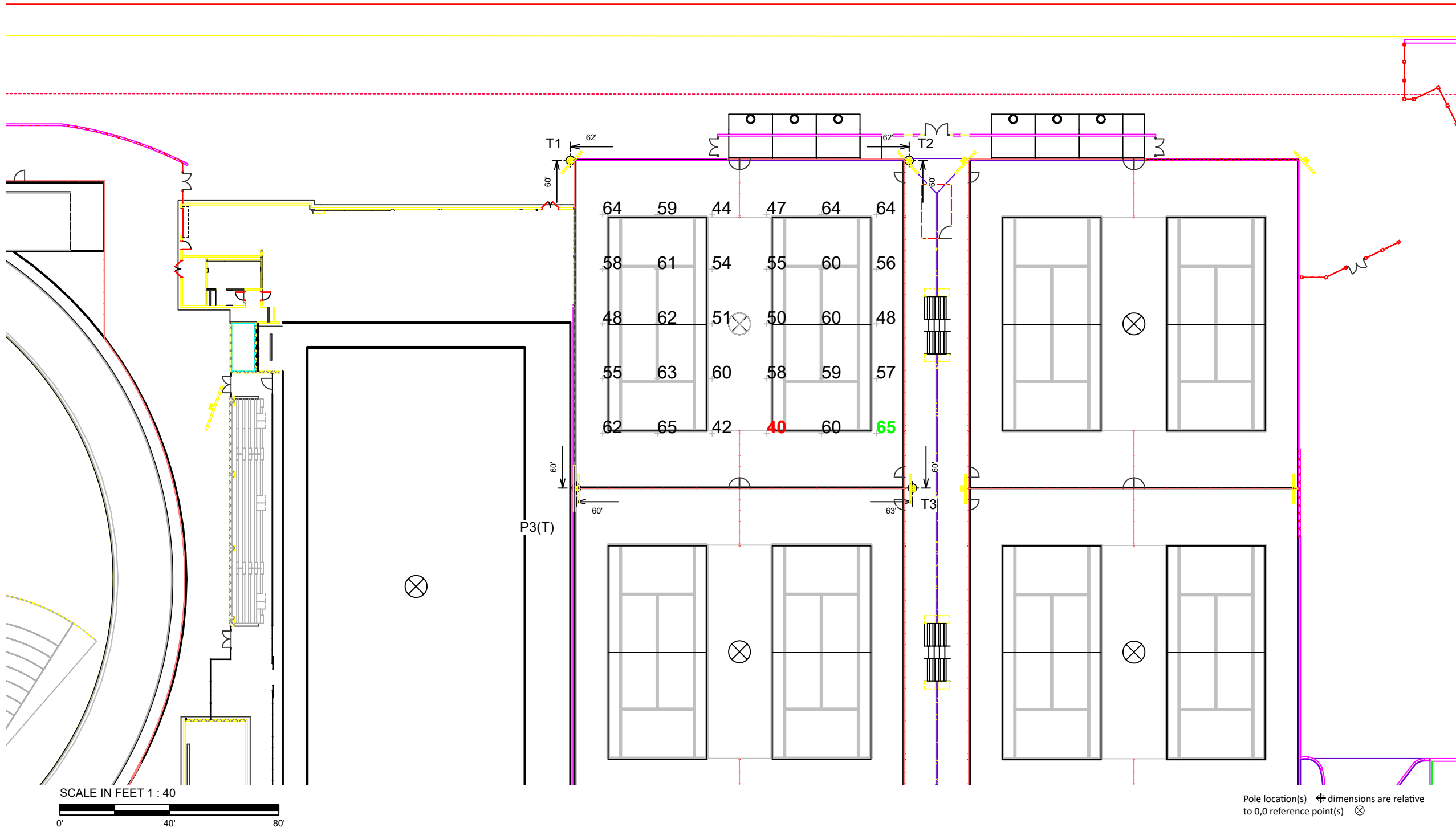
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P3(T), T3	40'	-	40'	TLC-LED-600	4	2	2
				40'	TLC-LED-900	2	1	1
2	T1-T2	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
4	TOTALS					18	12	6

GRID SUMMARY	
Name:	Tennis 1-2
Size:	2 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	56.36
Maximum:	65
Minimum:	40
Avg / Min:	1.43
Guaranteed Max / Min:	2
Max / Min:	1.65
UG (adjacent pts):	0.00
CU:	0.73
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	12
Total Load:	8.2 kW

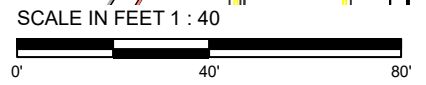


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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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) ⚡ 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
1	P2	55'	0'	55'	TLC-LED-900	2	0	2
				40'	TLC-LED-900	1	1	0
				40'	TLC-LED-600	2	2	0
				55'	TLC-LED-600	2	0	2
2	P3(T), T3	40'	0'	40'	TLC-LED-600	4	2	2
				40'	TLC-LED-900	2	1	1
1	T4	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
4	TOTALS					22	12	10

GRID SUMMARY	
Name:	Tennis 3-4
Size:	2 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

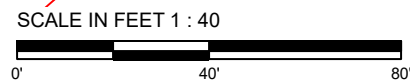
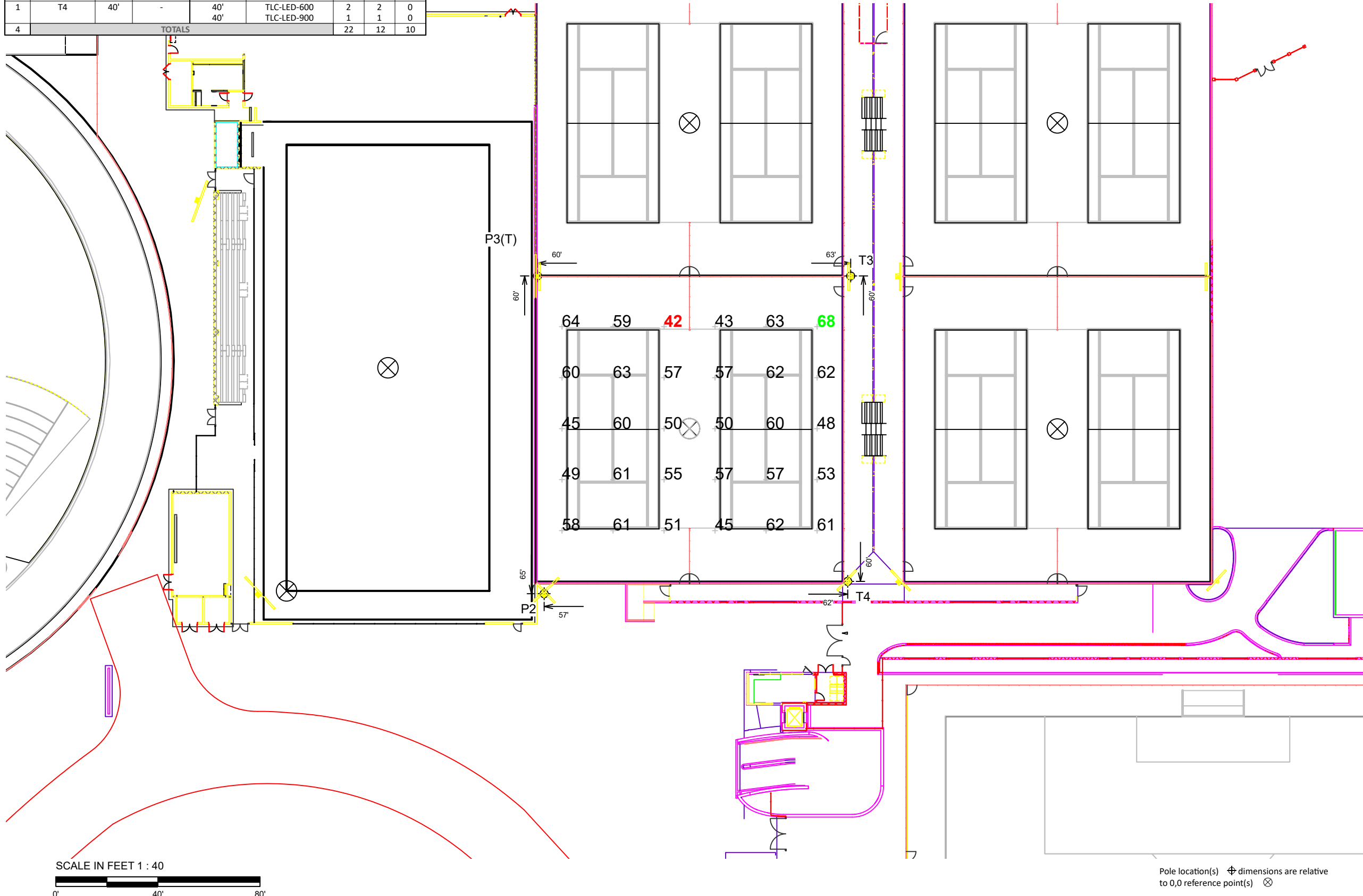
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	56.16
Maximum:	68
Minimum:	42
Avg / Min:	1.32
Guaranteed Max / Min:	2
Max / Min:	1.60
UG (adjacent pts):	0.00
CU:	0.73
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	12
Total Load:	8.2 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) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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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	T5-T6	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
2	T7-T8	40'	-	40'	TLC-LED-600	4	2	2
				40'	TLC-LED-900	2	1	1
4	TOTALS					18	12	6

Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Tennis 5-6
Size:	2 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

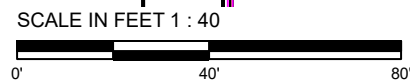
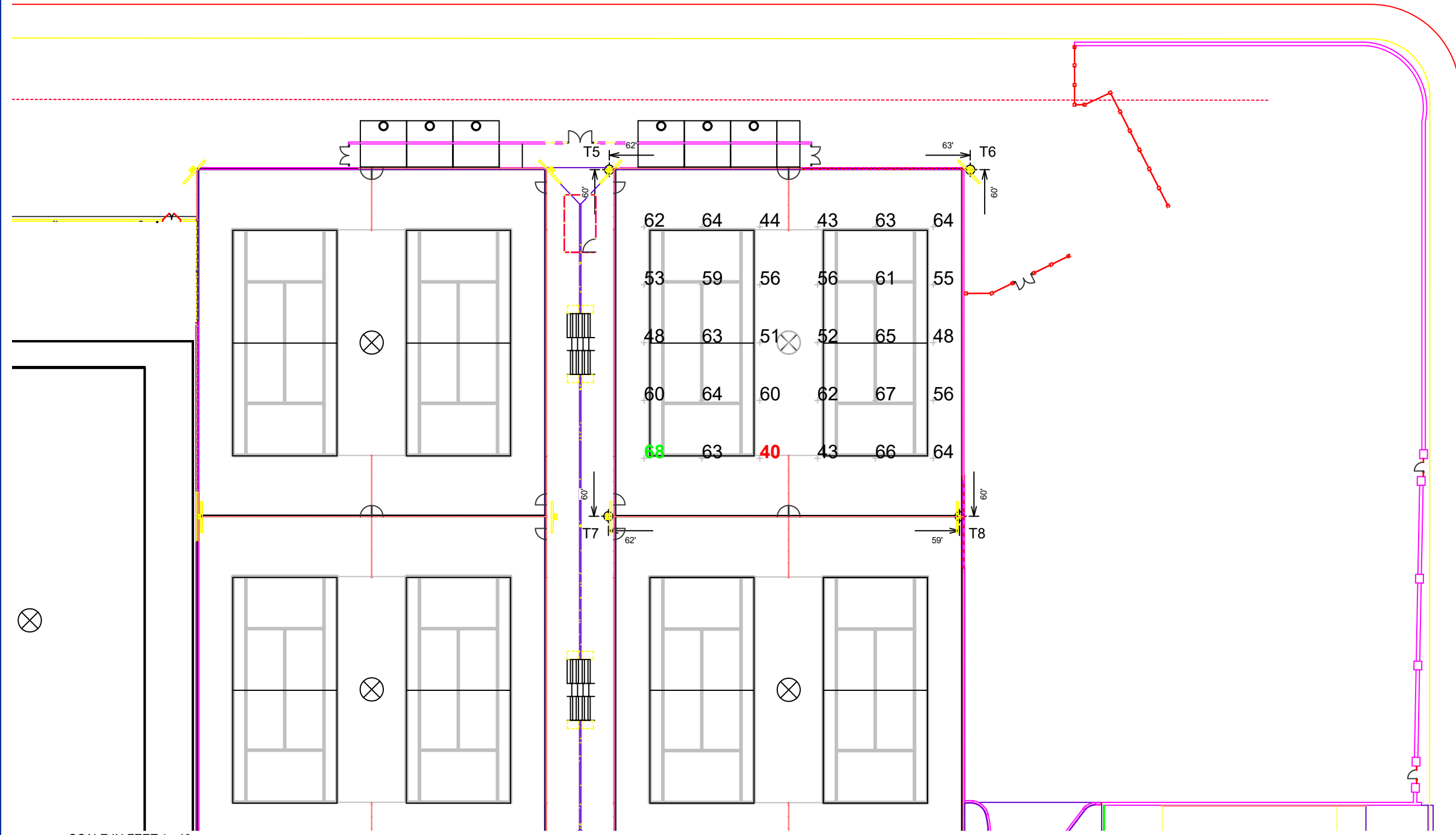
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	57.28
Maximum:	68
Minimum:	40
Avg / Min:	1.44
Guaranteed Max / Min:	2
Max / Min:	1.72
UG (adjacent pts):	0.00
CU:	0.75
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	12
Total Load:	8.2 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) Ⓧ dimensions are relative to 0,0 reference point(s) ⊗

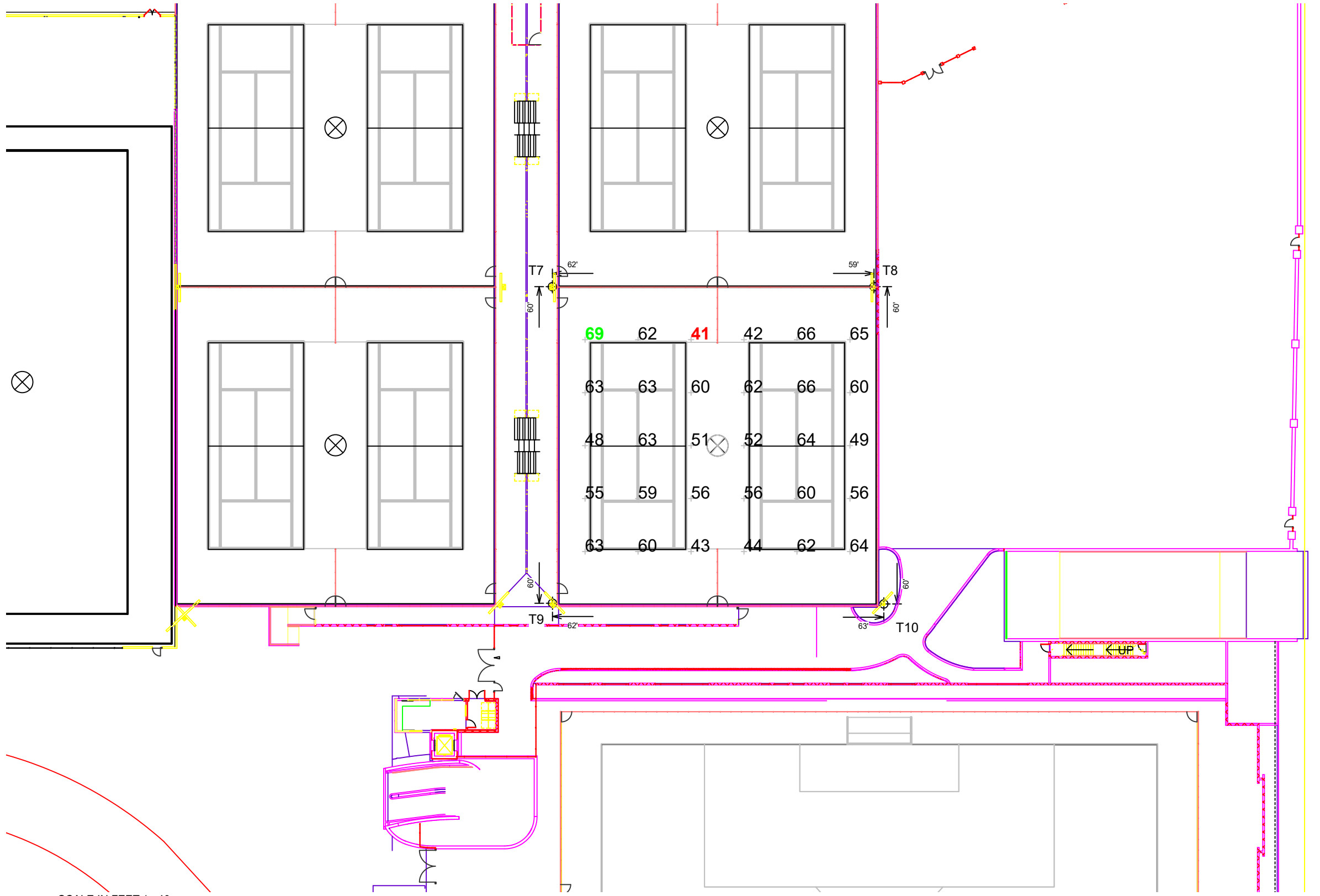


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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T7-T8	40'	0'	40'	TLC-LED-600	4	2	2
				40'	TLC-LED-900	2	1	1
2	T9-T10	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
4	TOTALS					18	12	6

GRID SUMMARY	
Name:	Tennis 7-8
Size:	2 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	57.52
Maximum:	69
Minimum:	41
Avg / Min:	1.42
Guaranteed Max / Min:	2
Max / Min:	1.70
UG (adjacent pts):	0.00
CU:	0.75
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	12
Total Load:	8.2 kW

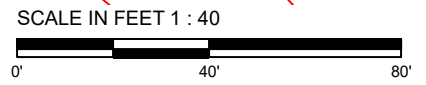


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.



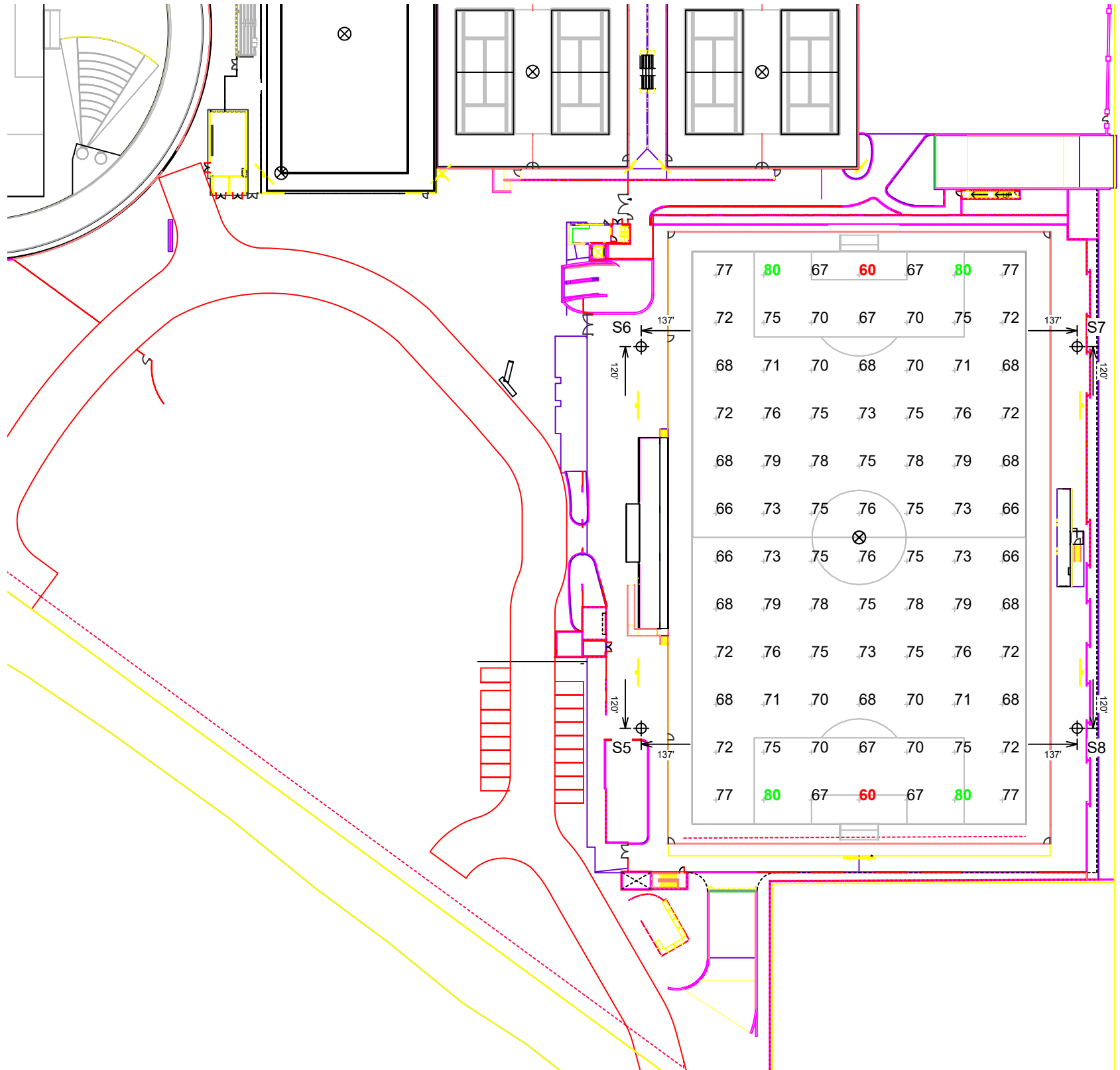
Pole location(s) ⊗ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN							
Pole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
4	S5-S8	80'	-	80'	TLC-LED-900	7	7
				80'	TLC-LED-400	1	0
				15.5'	TLC-BT-575	2	2
				80'	TLC-LED-1500	8	8
4	TOTALS					72	68

GRID SUMMARY	
Name:	Field A
Size:	360' x 210'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	70
Scan Average:	72.61
Maximum:	80
Minimum:	60
Avg / Min:	1.20
Guaranteed Max / Min:	1.7
Max / Min:	1.33
UG (adjacent pts):	1.19
CU:	0.68
No. of Points:	84
LUMINAIRE INFORMATION	
Applied Circuits:	G
No. of Luminaires:	68
Total Load:	75.28 kW

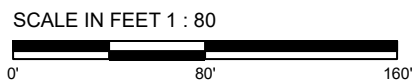


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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



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GRID SUMMARY	
Name:	Blanket Spill Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

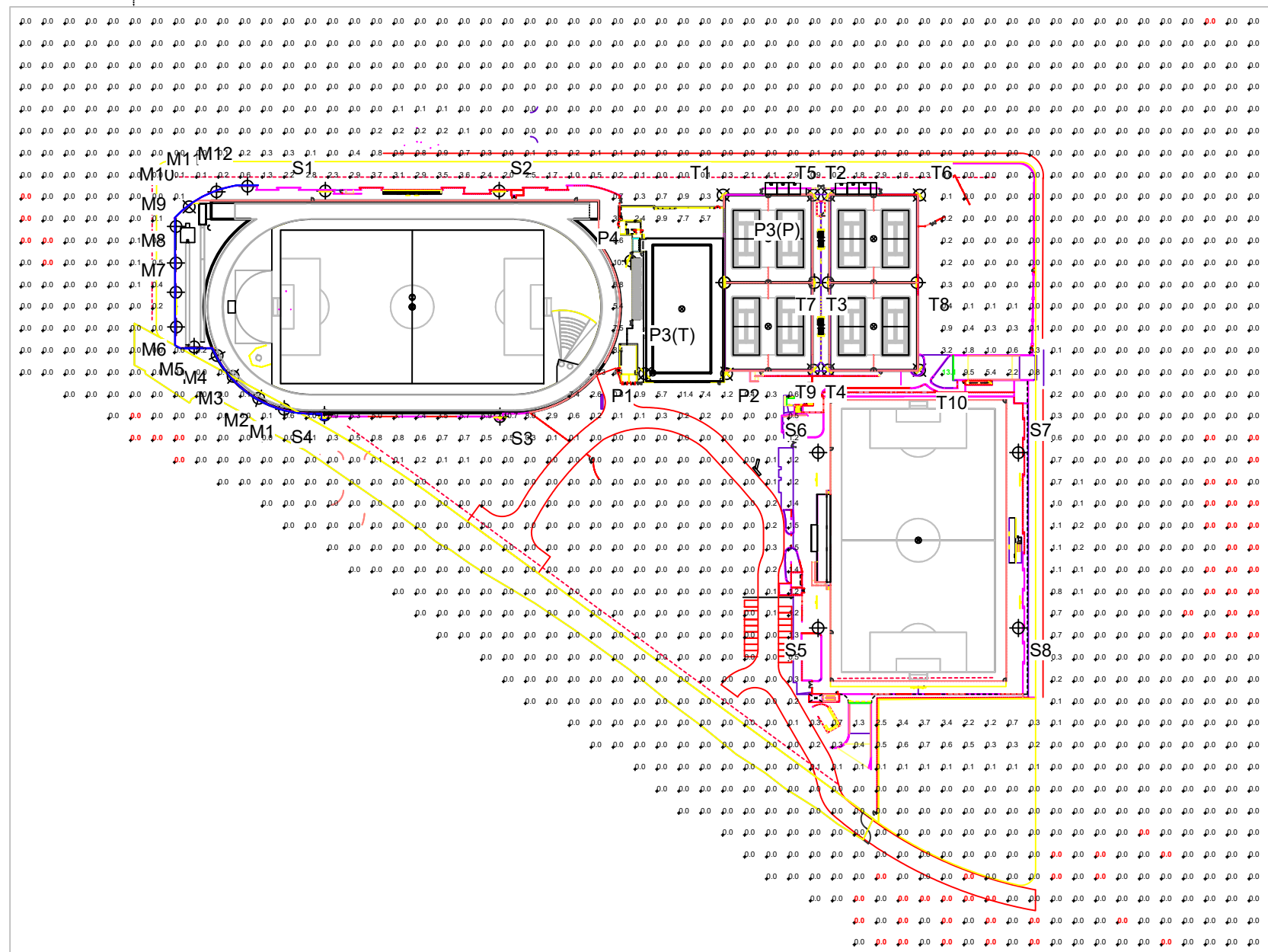
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	0.25
Maximum:	13
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	1043.65
CU:	0.02
No. of Points:	1476
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 kW

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.

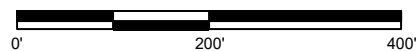
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE

SCALE IN FEET 1 : 200



ENGINEERED DESIGN By: D. Lohman · File #195798V · 06-May-22

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



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GRID SUMMARY	
Name:	Blanket Spill Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

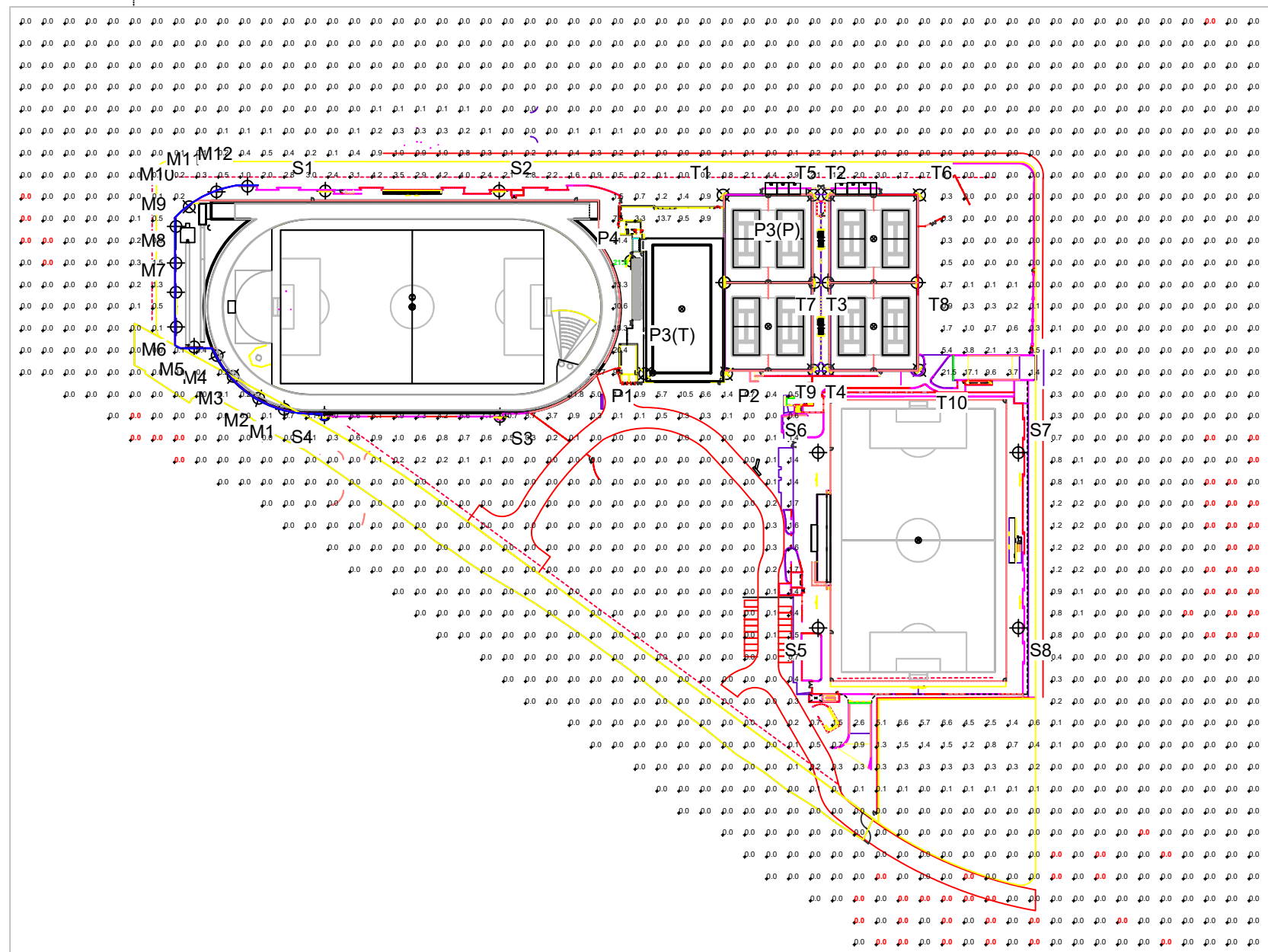
ILLUMINATION SUMMARY	
MAINTAINED MAX VERTICAL FOOTCANDLES	
	Entire Grid
Scan Average:	0.38
Maximum:	22
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	683.81
CU:	0.02
No. of Points:	1476
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.



NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE

SCALE IN FEET 1 : 200



ENGINEERED DESIGN By: D. Lohman · File #195798V · 06-May-22

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

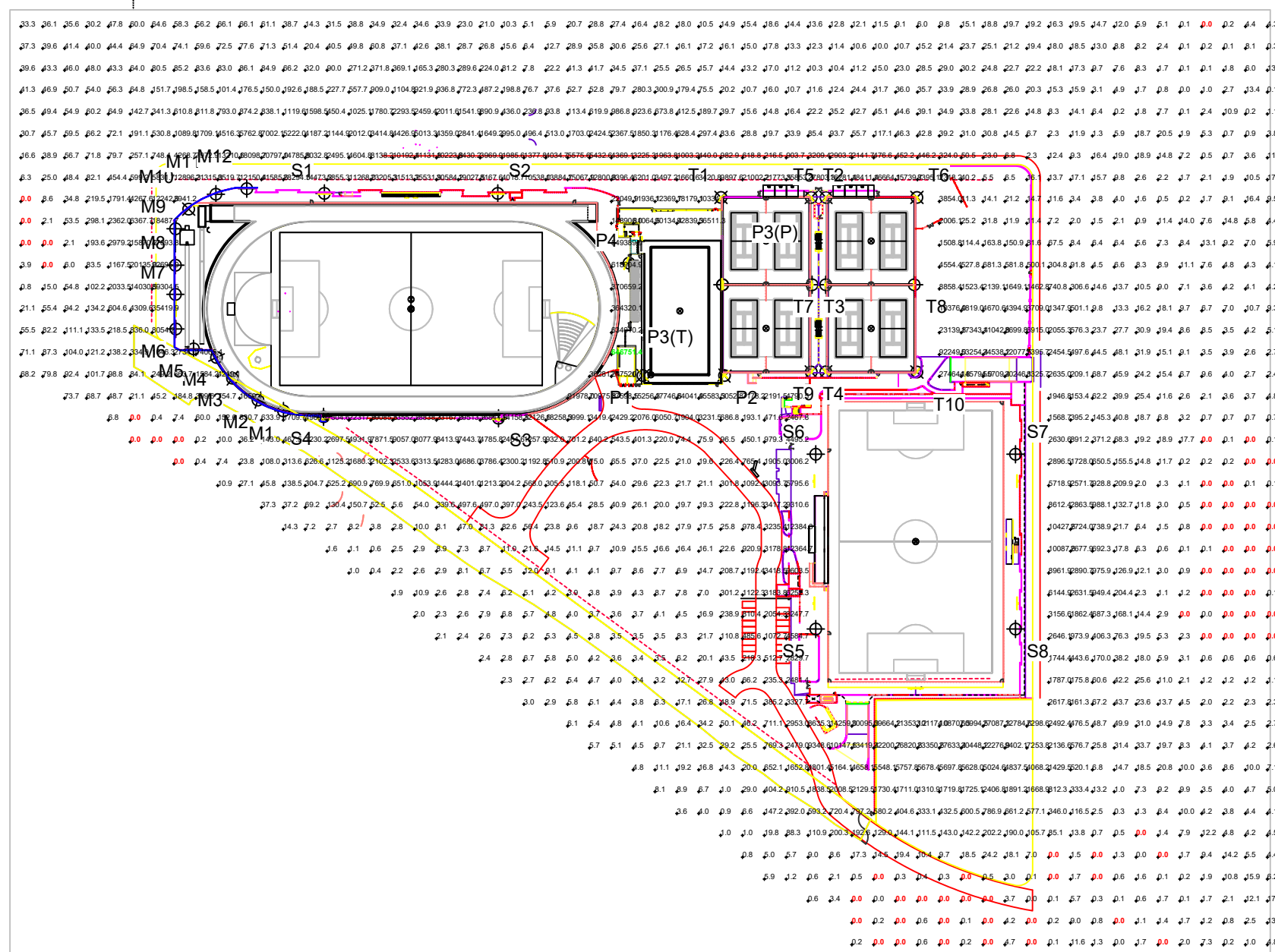


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GRID SUMMARY	
Name:	Blanket Spill Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average:	5626.93
Maximum:	646751
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	340.31
CU:	0.02
No. of Points:	1476
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.

NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE

SCALE IN FEET 1 : 200



ENGINEERED DESIGN By: D. Lohman · File #195798V · 06-May-22

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



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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	S1-S2	80'	0'	80'	TLC-LED-1500	1	0	1
				80'	TLC-LED-900	1	0	1
				80'	TLC-LED-400	1	1	0
				15.46'	TLC-BT-575	2	0	2
				80'	TLC-LED-1200	6	0	6
2	TOTALS					22	2	20

GRID SUMMARY	
Name:	Upper Soccer Egress
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

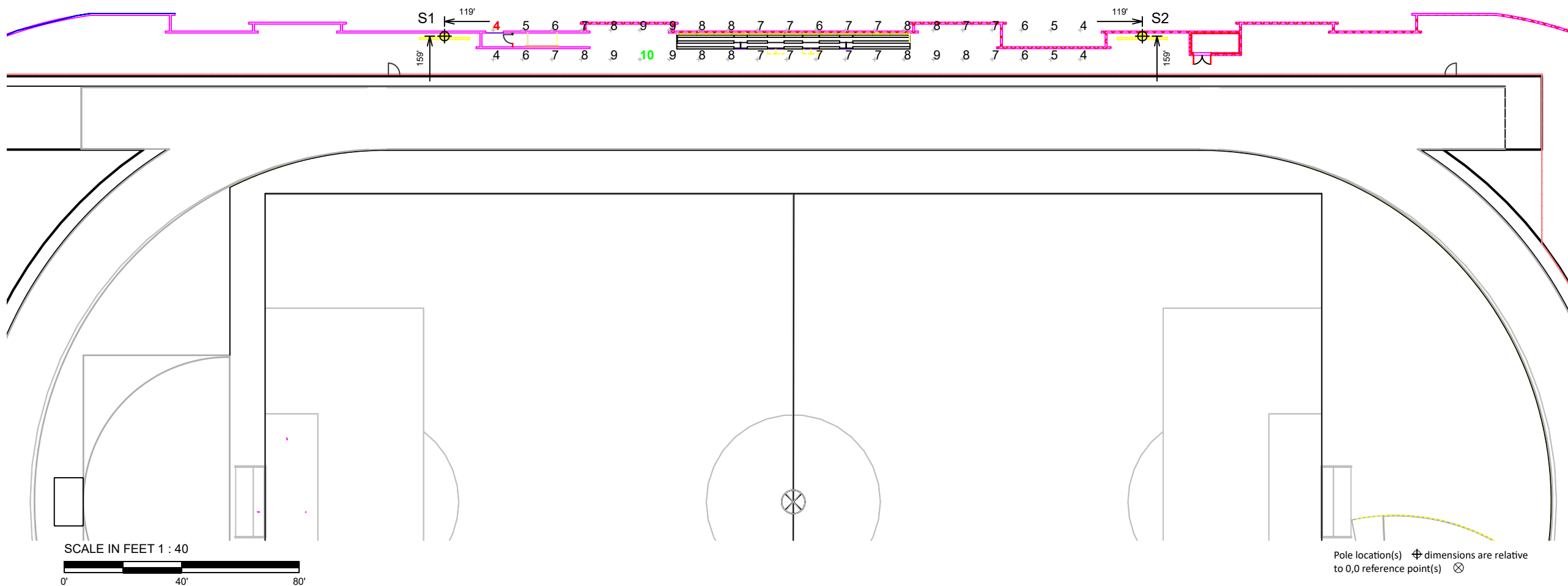
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	6.97
Maximum:	10
Minimum:	4
Avg / Min:	1.93
Max / Min:	2.73
UG (adjacent pts):	1.47
CU:	0.30
No. of Points:	42
LUMINAIRE INFORMATION	
Applied Circuits:	1
No. of Luminaires:	2
Total Load:	0.8 kW

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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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P1	55'	0'	55'	TLC-LED-900	2	1	1
				55'	TLC-LED-600	2	0	2
1	P2	55'	0'	55'	TLC-LED-900	2	0	2
				40'	TLC-LED-900	1	0	1
				40'	TLC-LED-600	2	0	2
				55'	TLC-LED-600	2	1	1
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	0	1
				55'	TLC-LED-900	3	1	2
4	TOTALS					19	4	15

GRID SUMMARY	
Name:	Pool Egress
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

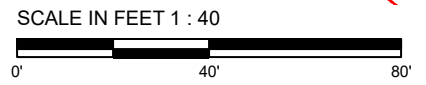
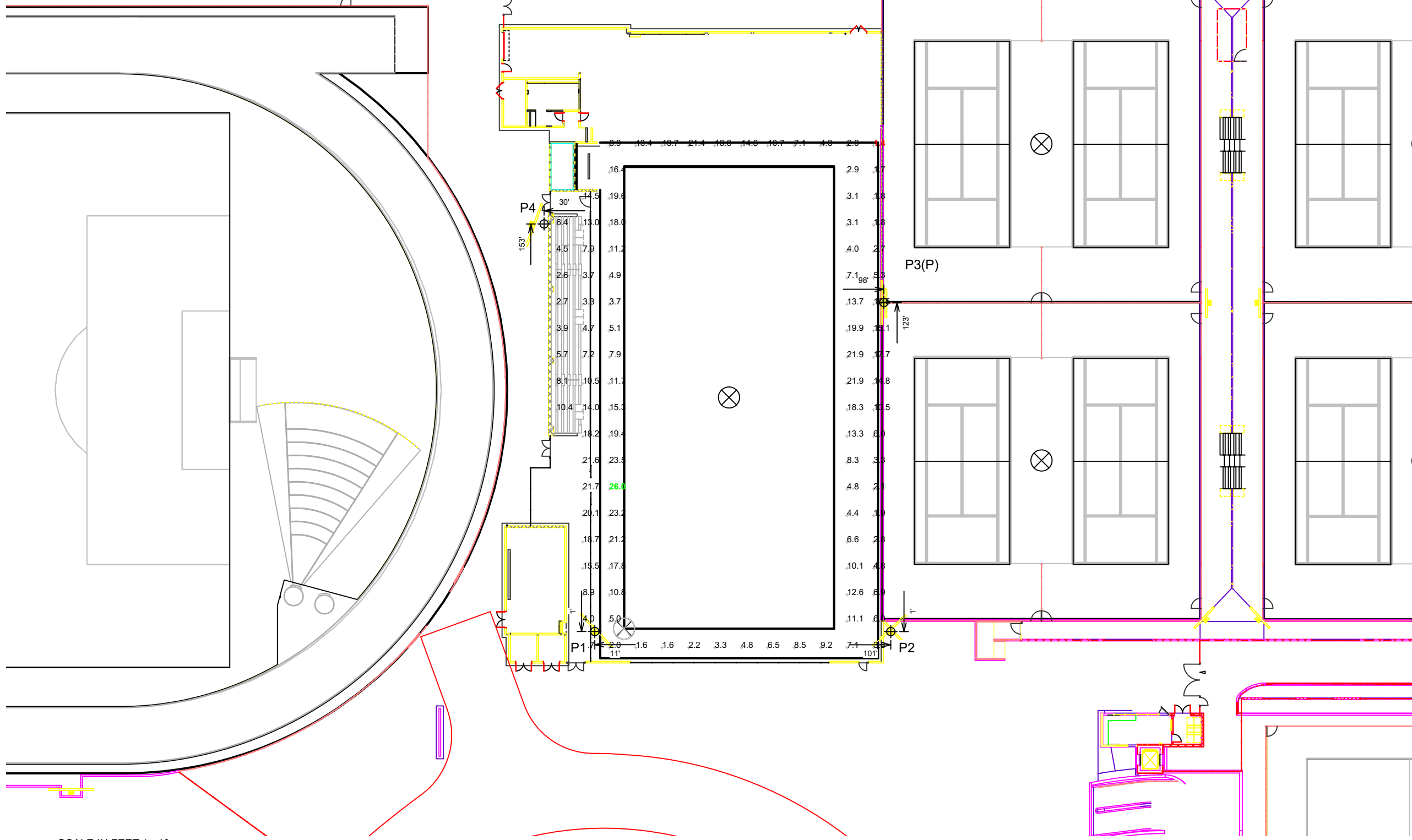
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	9.70
Maximum:	26
Minimum:	1
Avg / Min:	6.73
Max / Min:	18.03
UG (adjacent pts):	2.52
CU:	0.29
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	J
No. of Luminaires:	4
Total Load:	3.25 kW

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) ⊕ 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
4	S5-S8	80'	0'	80'	TLC-LED-900	7	0	7
				80'	TLC-LED-400	1	1	0
				15.48'	TLC-BT-575	2	0	2
				80'	TLC-LED-1500	8	0	8
4	TOTALS					72	4	68

GRID SUMMARY	
Name:	Lower Soccer Egress - Home
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

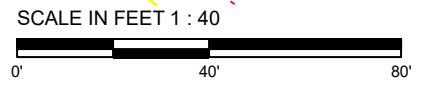
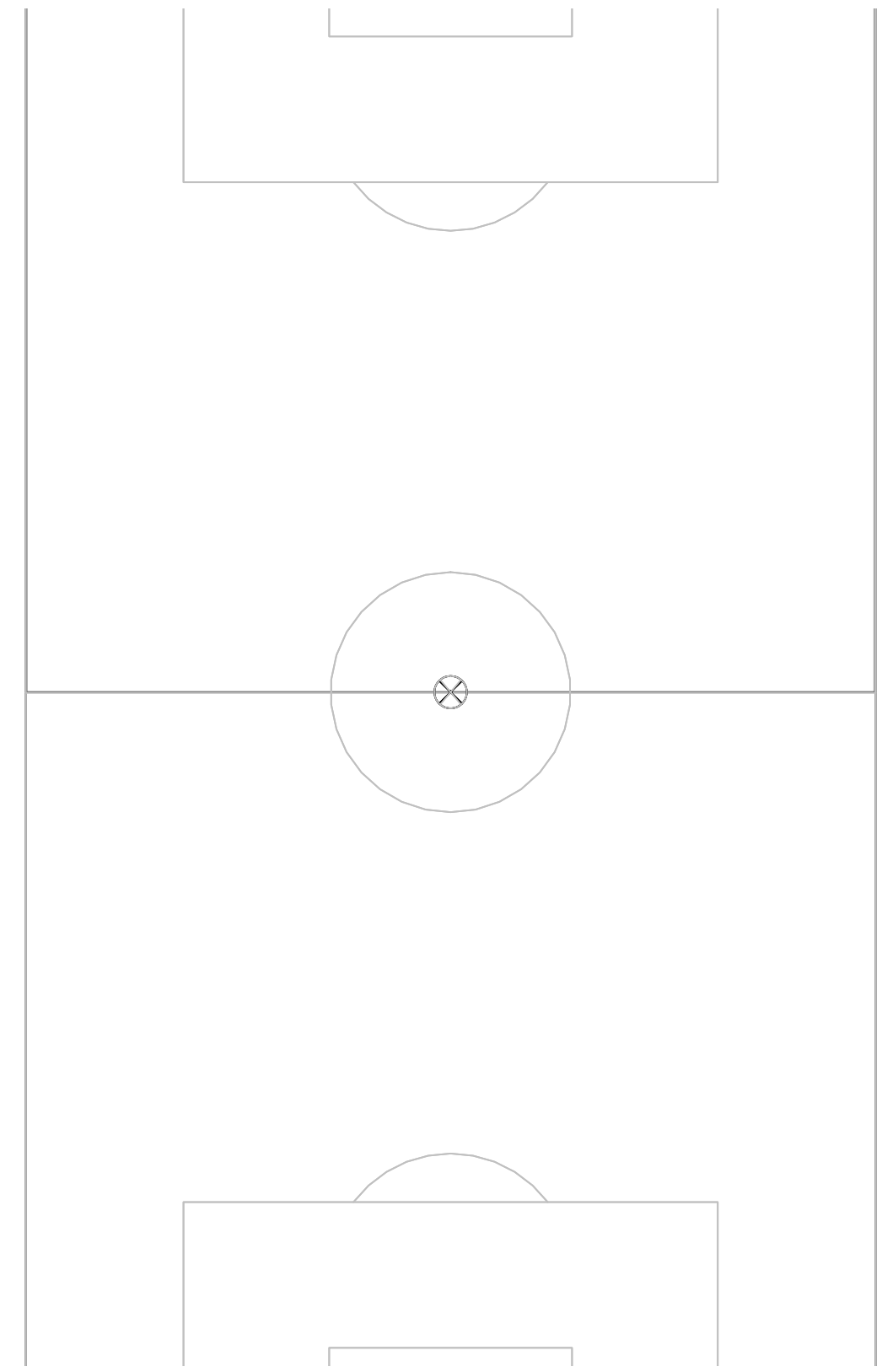
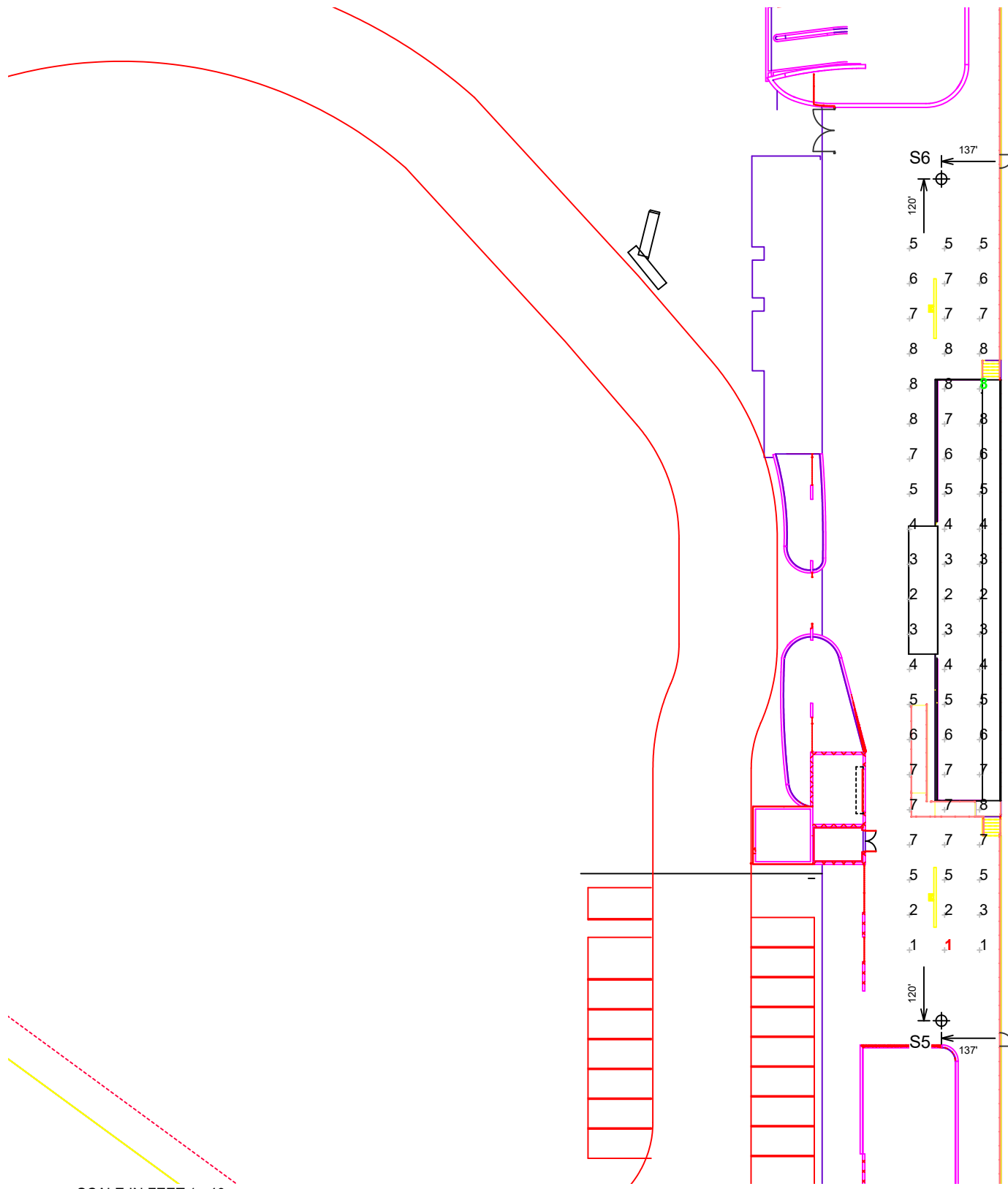
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	5.29
Maximum:	8
Minimum:	1
Avg / Min:	7.38
Max / Min:	11.64
UG (adjacent pts):	3.19
CU:	0.19
No. of Points:	63
LUMINAIRE INFORMATION	
Applied Circuits:	K
No. of Luminaires:	4
Total Load:	1.6 kW

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.

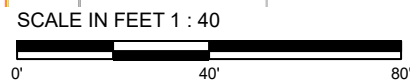
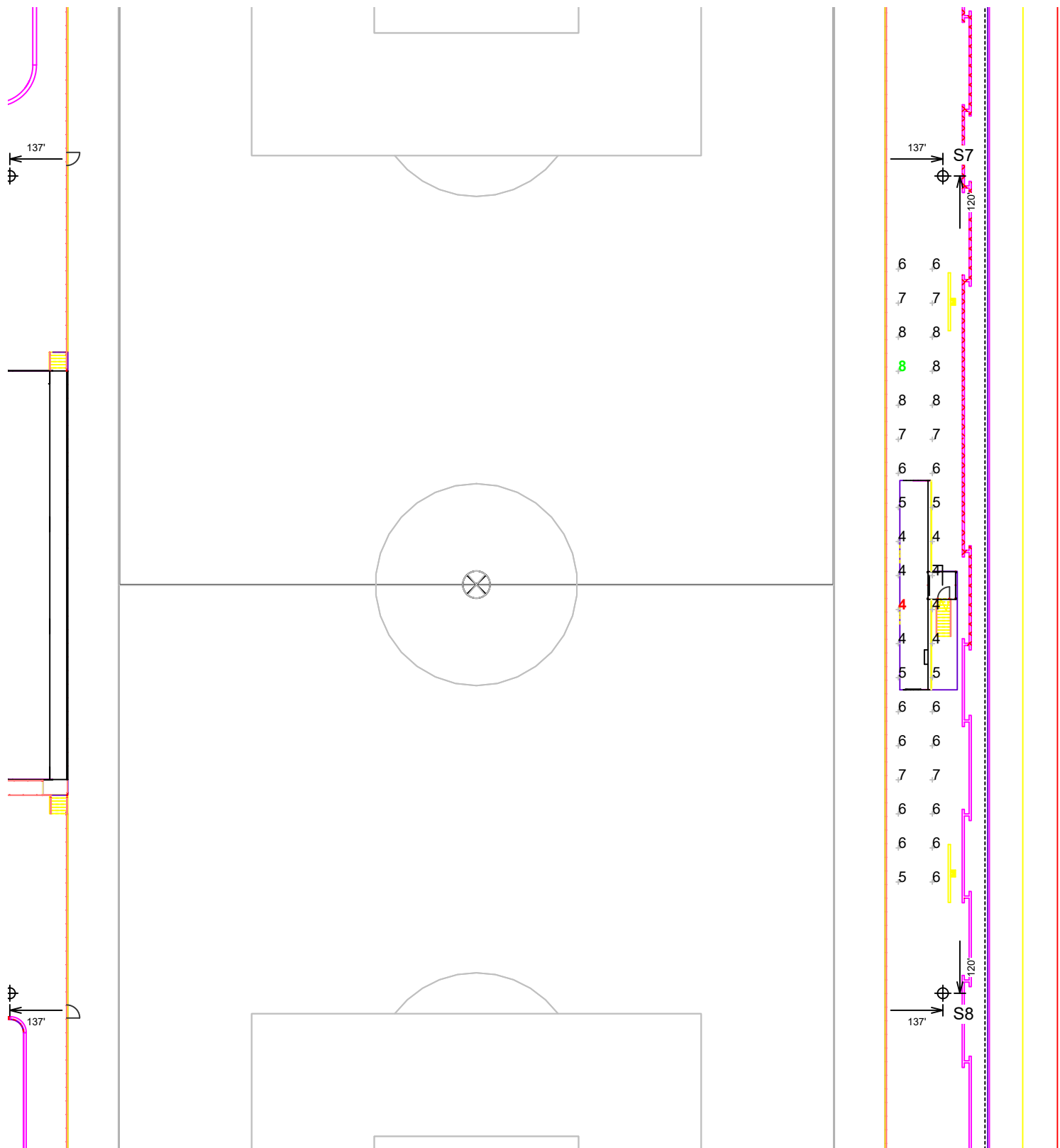
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ 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
4	S5-S8	80'	0'	80'	TLC-LED-900	7	0	7
				80'	TLC-LED-400	1	1	0
				15.48'	TLC-BT-575	2	0	2
				80'	TLC-LED-1500	8	0	8
4	TOTALS					72	4	68



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

GRID SUMMARY	
Name:	Lower Soccer Egress - Away
Size:	0' x 0'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	5.91
Maximum:	8
Minimum:	4
Avg / Min:	1.57
Max / Min:	2.15
UG (adjacent pts):	1.20
CU:	0.13
No. of Points:	38
LUMINAIRE INFORMATION	
Applied Circuits:	K
No. of Luminaires:	4
Total Load:	1.6 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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Rio Spill
Spacing:	30.0'
Height:	-15.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	Scan Average: 0.0111
	Maximum: 0.05
	Minimum: 0.00
	No. of Points: 16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 kW

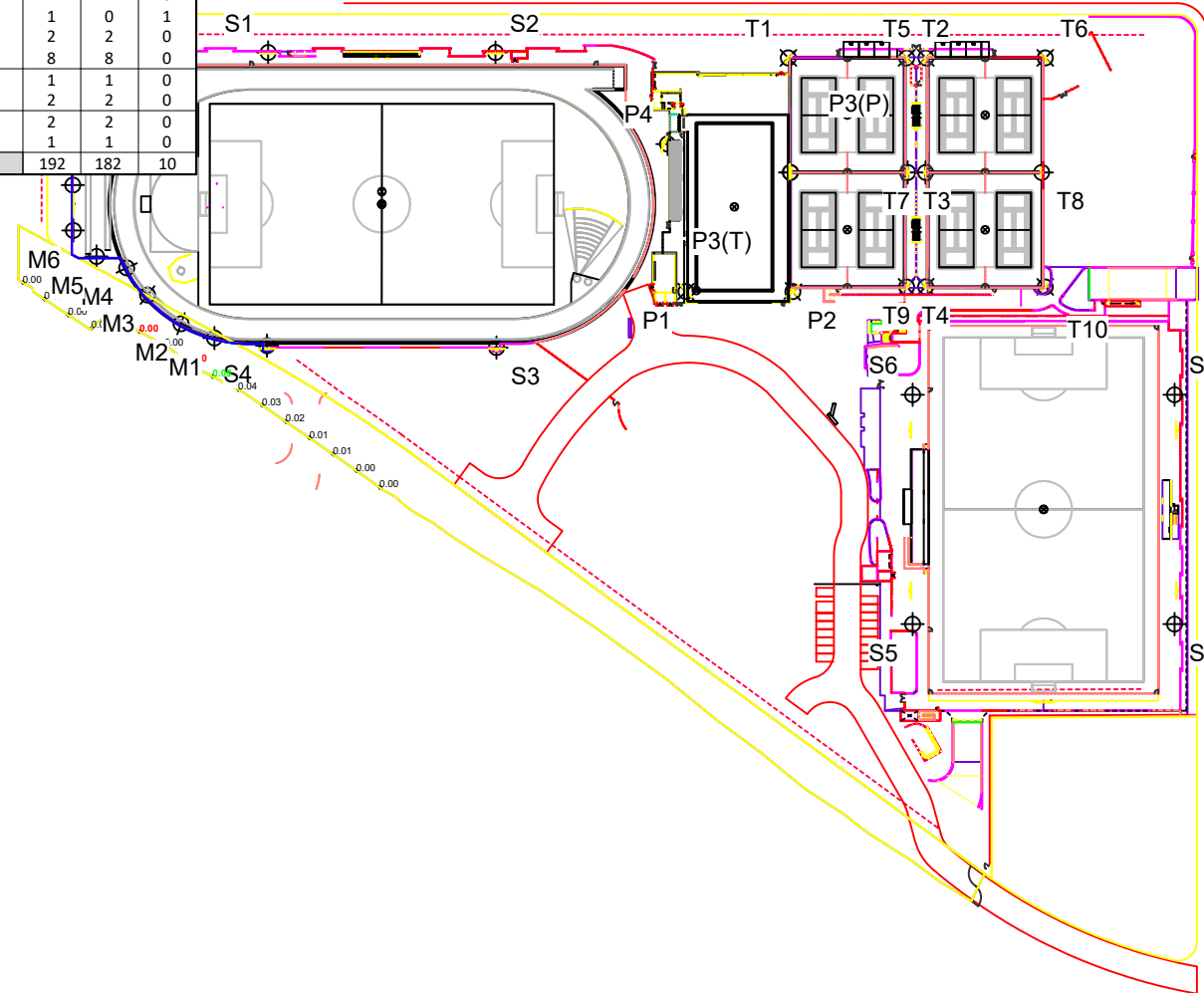
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
12	M1-M12		8'	8'	CREE OSQ	1	1	0
1	P1	55'	0'	55'	TLC-LED-900	2	1	1
				55'	TLC-LED-600	2	2	0
1	P2	55'	0'	55'	TLC-LED-900	2	2	0
				40'	TLC-LED-900	1	1	0
				40'	TLC-LED-600	2	2	0
				55'	TLC-LED-600	2	1	1
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0
				55'	TLC-LED-900	3	2	1
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0
				40'	TLC-LED-600	4	4	0
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0
				80'	TLC-LED-900	1	1	0
				80'	TLC-LED-400	1	0	1
				15.46'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	6	6	0
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-900	7	7	0
1	S4	80'	0'	80'	TLC-LED-900	5	5	0
				80'	TLC-LED-1200	2	2	0
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-600	2	2	0
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0
				80'	TLC-LED-400	1	0	1
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	8	8	0
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0
				40'	TLC-LED-600	2	2	0
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
35	TOTALS					192	182	10



SCALE IN FEET 1 : 200

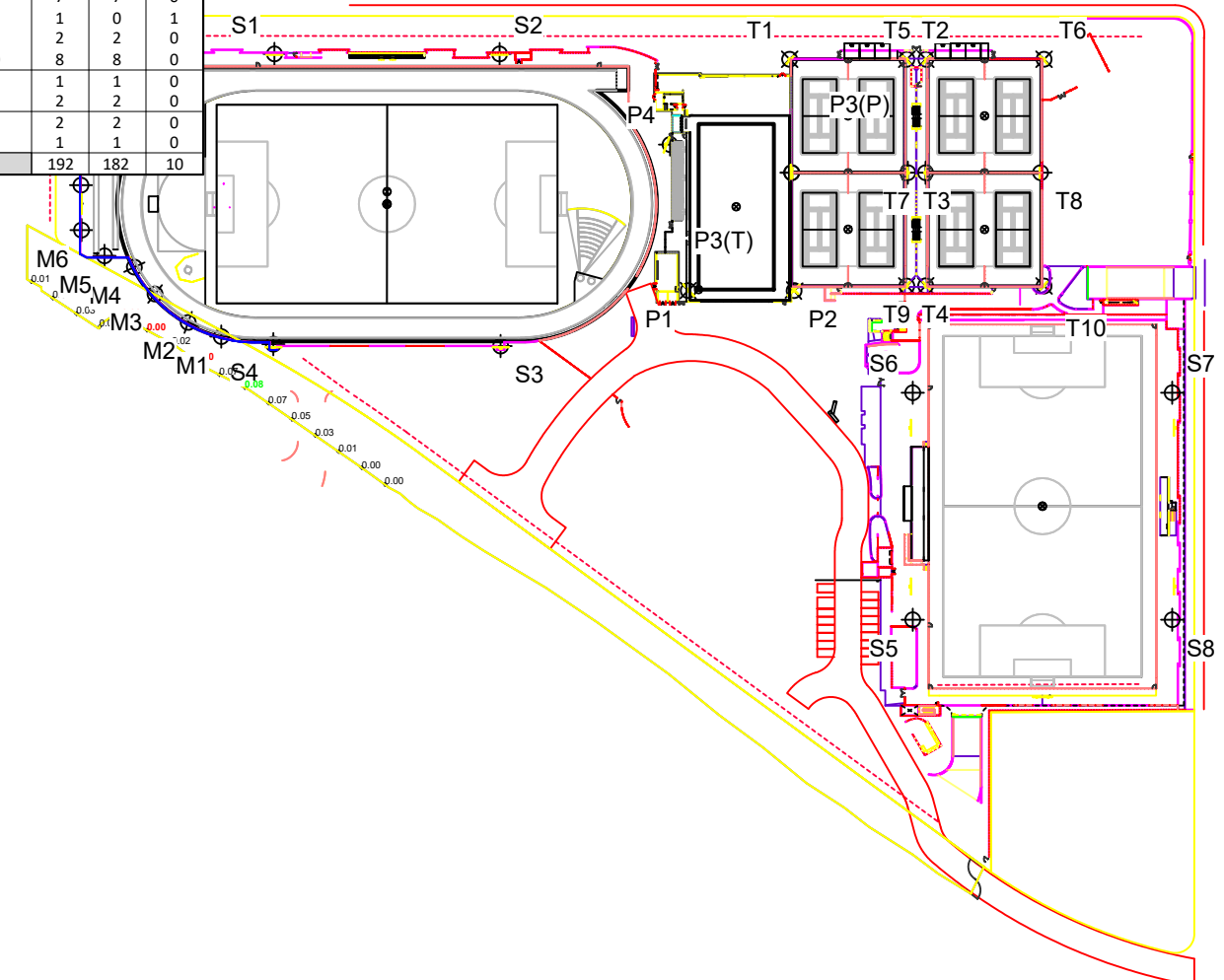


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
12	M1-M12		8'	8'	CREE OSQ	1	1	0
1	P1	55'	0'	55'	TLC-LED-900	2	1	1
				55'	TLC-LED-600	2	2	0
1	P2	55'	0'	55'	TLC-LED-900	2	2	0
				40'	TLC-LED-900	1	1	0
				40'	TLC-LED-600	2	2	0
				55'	TLC-LED-600	2	1	1
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0
				55'	TLC-LED-900	3	2	1
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0
				40'	TLC-LED-600	4	4	0
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0
				80'	TLC-LED-900	1	1	0
				80'	TLC-LED-400	1	0	1
				15.46'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	6	6	0
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-900	7	7	0
1	S4	80'	0'	80'	TLC-LED-900	5	5	0
				80'	TLC-LED-1200	2	2	0
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-600	2	2	0
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0
				80'	TLC-LED-400	1	0	1
				15.48'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	8	8	0
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0
				40'	TLC-LED-600	2	2	0
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0
				40'	TLC-LED-900	1	1	0
35	TOTALS					192	182	10



GRID SUMMARY	
Name:	Rio Spill
Spacing:	30.0'
Height:	-15.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Entire Grid	0.0269
Scan Average:	0.0269
Maximum:	0.08
Minimum:	0.00
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.

SCALE IN FEET 1 : 200

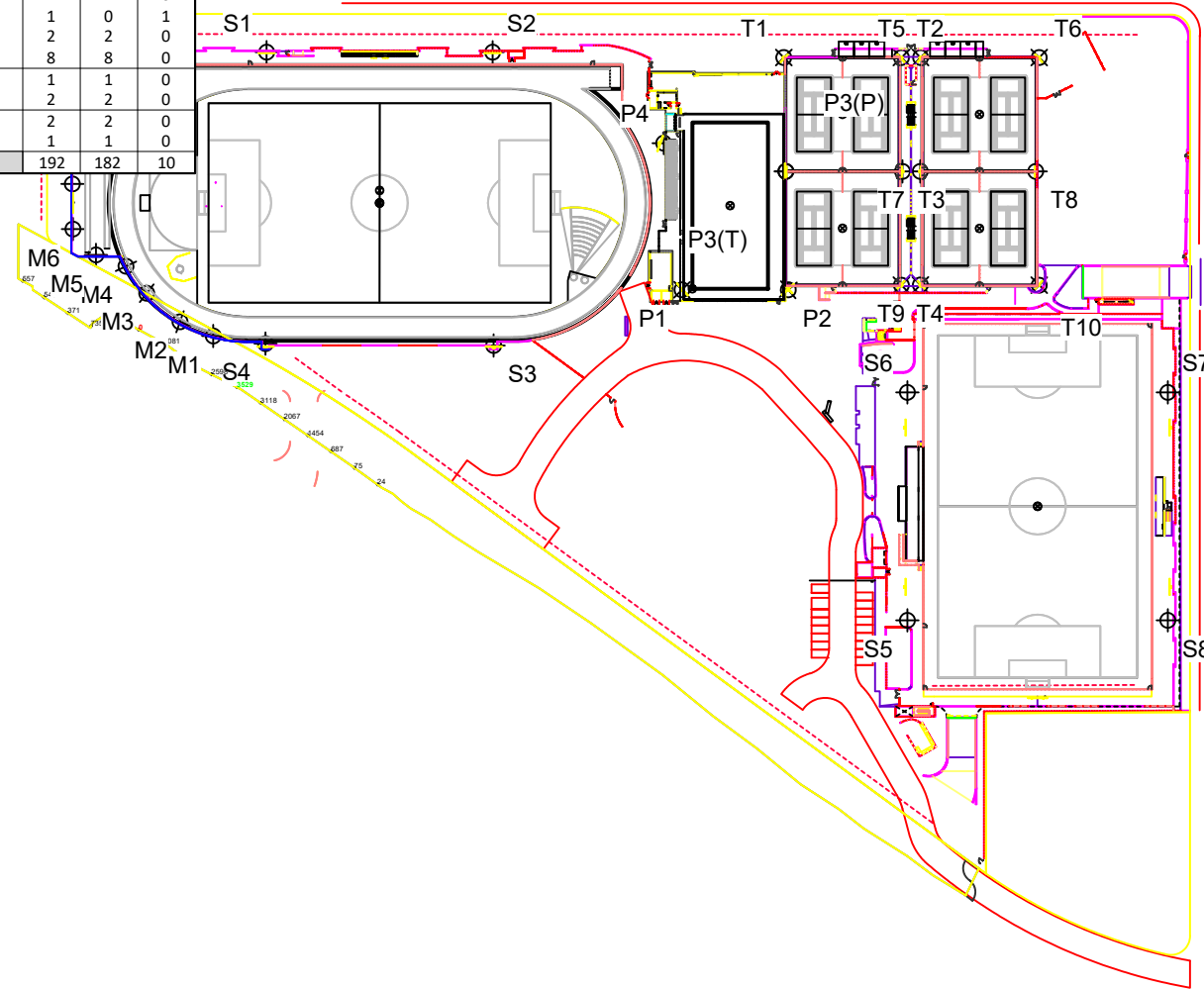


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
12	M1-M12		8'		CREE OSQ	1	1	0	
1	P1	55'	0'	55'	TLC-LED-900	2	1	1	
				55'	TLC-LED-600	2	2	0	
1	P2	55'	0'	55'	TLC-LED-900	2	2	0	
				40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
				55'	TLC-LED-600	2	1	1	
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0	
				55'	TLC-LED-900	3	2	1	
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0	
				40'	TLC-LED-600	4	4	0	
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0	
				80'	TLC-LED-900	1	1	0	
				80'	TLC-LED-400	1	0	1	
				15.46'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	6	6	0	
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-900	7	7	0	
1	S4	80'	0'	80'	TLC-LED-900	5	5	0	
				80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-600	2	2	0	
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0	
				80'	TLC-LED-400	1	0	1	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	8	8	0	
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0	
				40'	TLC-LED-900	1	1	0	
35	TOTALS						192	182	10



GRID SUMMARY	
Name:	Rio Spill
Spacing:	30.0'
Height:	-15.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1052.2308
Maximum:	3528.69
Minimum:	0.00
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.

SCALE IN FEET 1 : 200

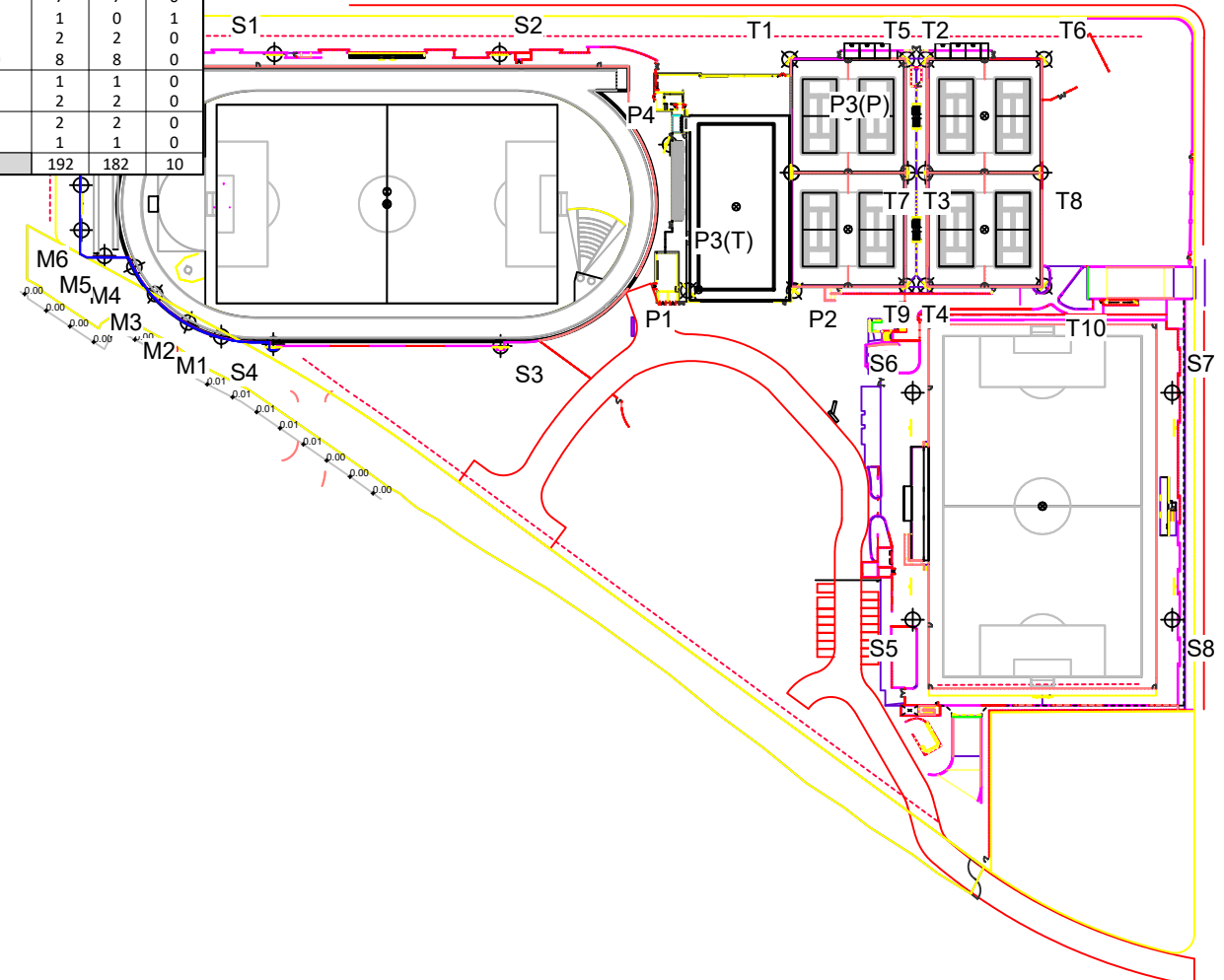


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
12	M1-M12		8'		CREE OSQ	1	1	0	
1	P1	55'	0'	55'	TLC-LED-900	2	1	1	
				55'	TLC-LED-600	2	2	0	
1	P2	55'	0'	55'	TLC-LED-900	2	2	0	
				40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
				55'	TLC-LED-600	2	1	1	
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0	
				55'	TLC-LED-900	3	2	1	
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0	
				40'	TLC-LED-600	4	4	0	
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0	
				80'	TLC-LED-900	1	1	0	
				80'	TLC-LED-400	1	0	1	
				15.46'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	6	6	0	
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-900	7	7	0	
1	S4	80'	0'	80'	TLC-LED-900	5	5	0	
				80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-600	2	2	0	
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0	
				80'	TLC-LED-400	1	0	1	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	8	8	0	
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0	
				40'	TLC-LED-900	1	1	0	
35	TOTALS						192	182	10



GRID SUMMARY	
Name:	Rio Spill 15' Offset
Spacing:	30.0'
Height:	-15.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	Scan Average: 0.0059
	Maximum: 0.01
	Minimum: 0.00
	No. of Points: 16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.

SCALE IN FEET 1 : 200

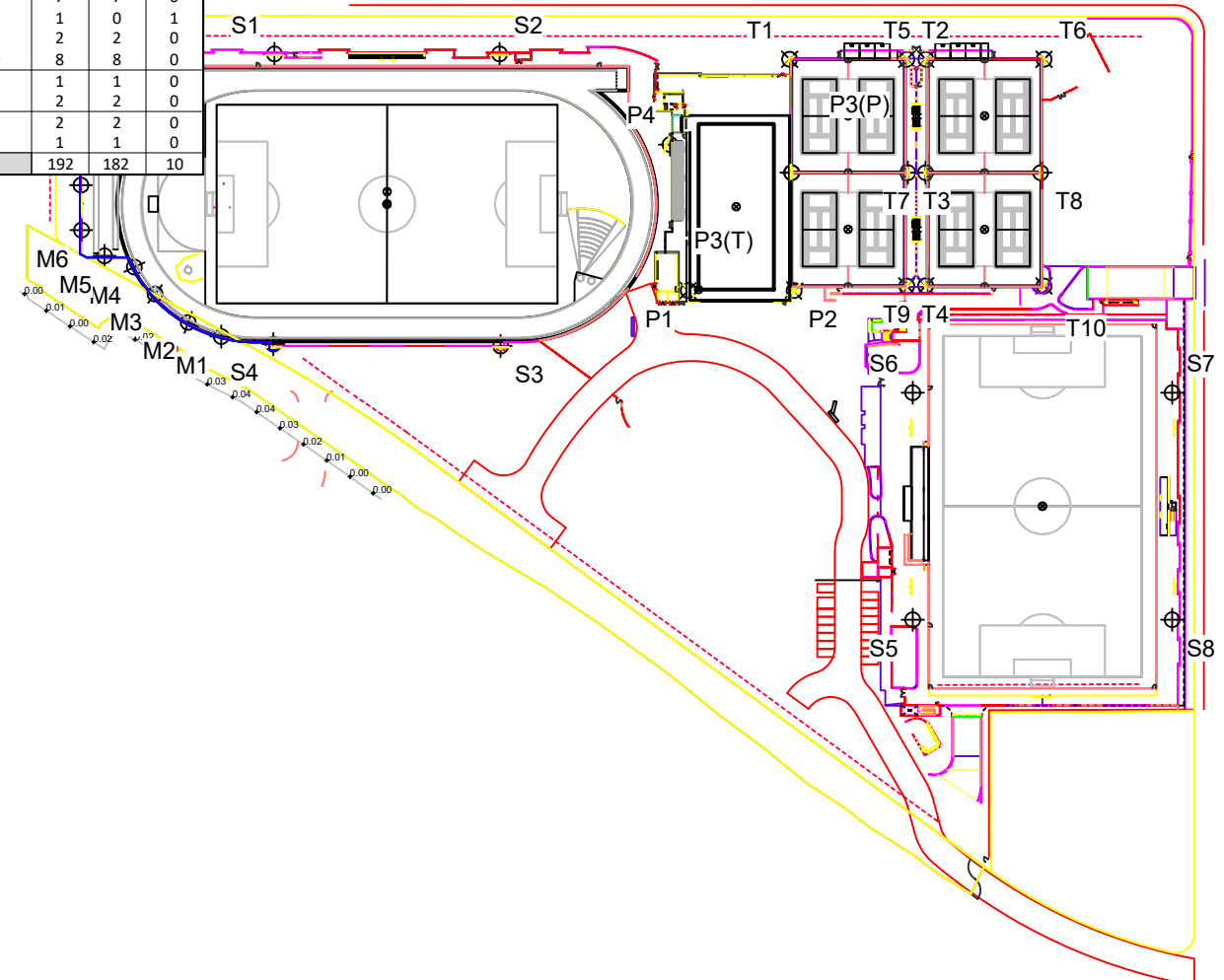


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



We Make It Happen.

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
12	M1-M12		8'		CREE OSQ	1	1	0	
1	P1	55'	0'	55'	TLC-LED-900	2	1	1	
				55'	TLC-LED-600	2	2	0	
1	P2	55'	0'	55'	TLC-LED-900	2	2	0	
				40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
				55'	TLC-LED-600	2	1	1	
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0	
				55'	TLC-LED-900	3	2	1	
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0	
				40'	TLC-LED-600	4	4	0	
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0	
				80'	TLC-LED-900	1	1	0	
				80'	TLC-LED-400	1	0	1	
				15.46'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	6	6	0	
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-900	7	7	0	
1	S4	80'	0'	80'	TLC-LED-900	5	5	0	
				80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-600	2	2	0	
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0	
				80'	TLC-LED-400	1	0	1	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	8	8	0	
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0	
				40'	TLC-LED-900	1	1	0	
35	TOTALS						192	182	10



GRID SUMMARY	
Name:	Rio Spill 15' Offset
Spacing:	30.0'
Height:	-15.0' above grade

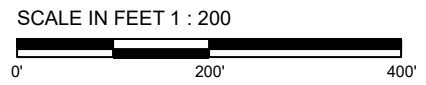
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Entire Grid	0.0187
Scan Average:	0.0187
Maximum:	0.05
Minimum:	0.00
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 kW

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.

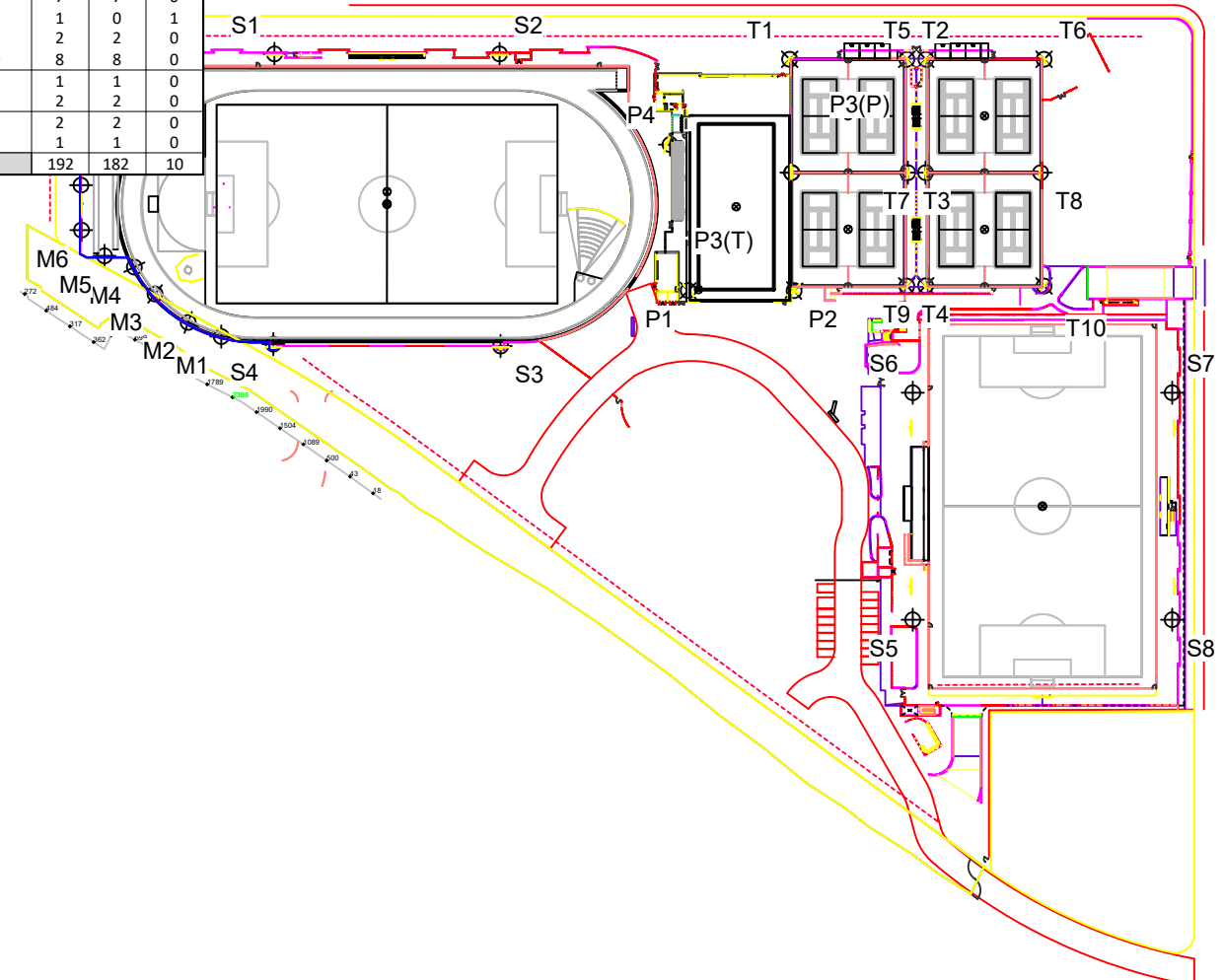
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s) ⊕ 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	
12	M1-M12		8'		CREE OSQ	1	1	0	
1	P1	55'	0'	55'	TLC-LED-900	2	1	1	
				55'	TLC-LED-600	2	2	0	
1	P2	55'	0'	55'	TLC-LED-900	2	2	0	
				40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
				55'	TLC-LED-600	2	1	1	
2	P3(P), P4	55'	0'	55'	TLC-LED-600	1	1	0	
				55'	TLC-LED-900	3	2	1	
4	P3(T), T3 T7-T8	40'	0'	40'	TLC-LED-900	2	2	0	
				40'	TLC-LED-600	4	4	0	
2	S1-S2	80'	0'	80'	TLC-LED-1500	1	1	0	
				80'	TLC-LED-900	1	1	0	
				80'	TLC-LED-400	1	0	1	
				15.46'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	6	6	0	
1	S3	80'	0'	80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-900	7	7	0	
1	S4	80'	0'	80'	TLC-LED-900	5	5	0	
				80'	TLC-LED-1200	2	2	0	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-600	2	2	0	
4	S5-S8	80'	0'	80'	TLC-LED-900	7	7	0	
				80'	TLC-LED-400	1	0	1	
				15.48'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	8	8	0	
4	T1-T2 T5-T6	40'	0'	40'	TLC-LED-900	1	1	0	
				40'	TLC-LED-600	2	2	0	
3	T4, T9-T10	40'	-	40'	TLC-LED-600	2	2	0	
				40'	TLC-LED-900	1	1	0	
35	TOTALS						192	182	10



GRID SUMMARY	
Name:	Rio Spill 15' Offset
Spacing:	30.0'
Height:	-15.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 828.9159
Maximum:	2305.10
Minimum:	0.00
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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.

SCALE IN FEET 1 : 200



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



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Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.0' above grade

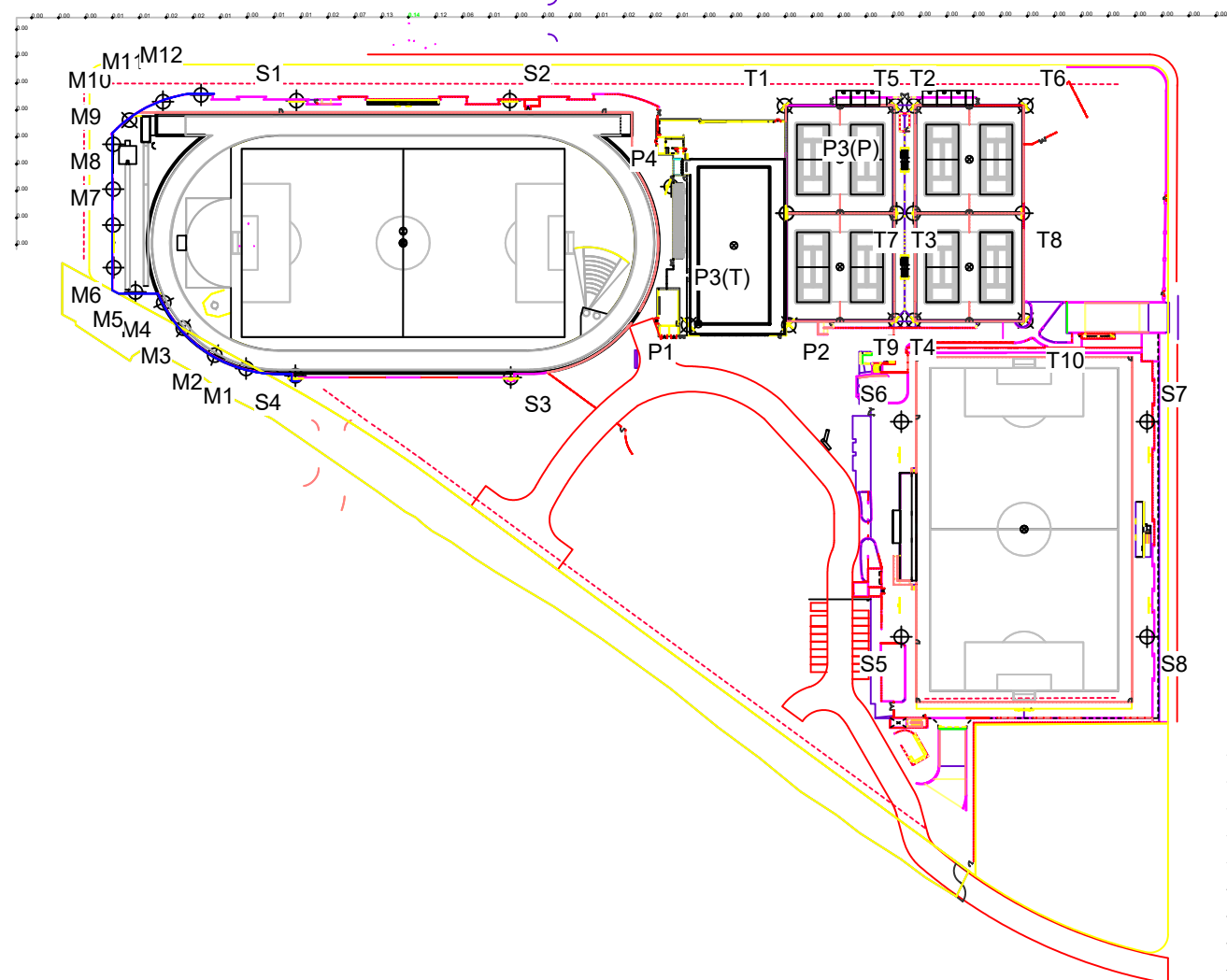
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	0.0109
Maximum:	0.14
Minimum:	0.00
No. of Points:	90
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 kW

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



NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE

SCALE IN FEET 1 : 200



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

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ILLUMINATION SUMMARY

Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.0' above grade

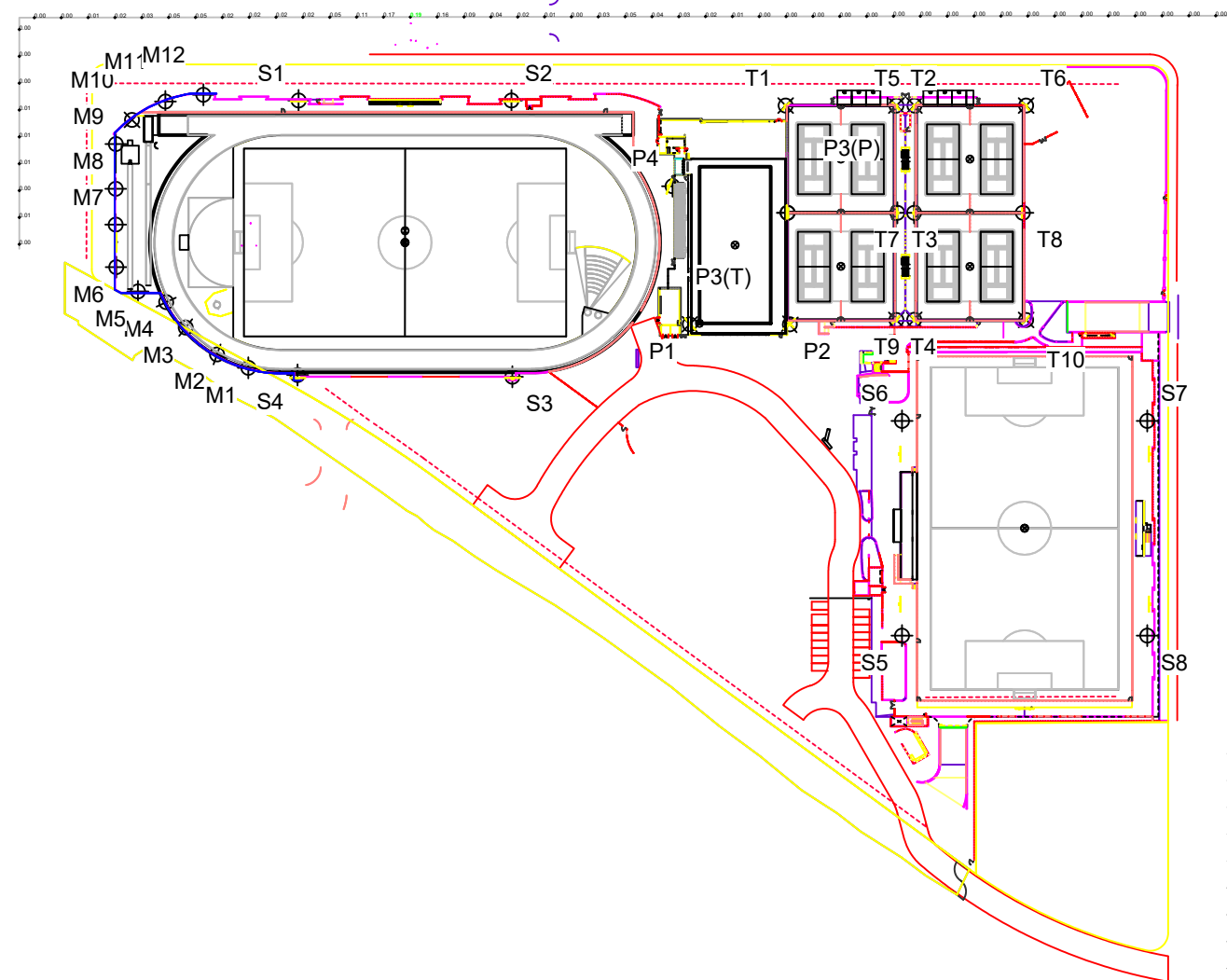
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
	Entire Grid
Scan Average:	0.0209
Maximum:	0.19
Minimum:	0.00
No. of Points:	90
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 kW

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



NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE



ENGINEERED DESIGN By: D. Lohman · File #195798V · 06-May-22

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



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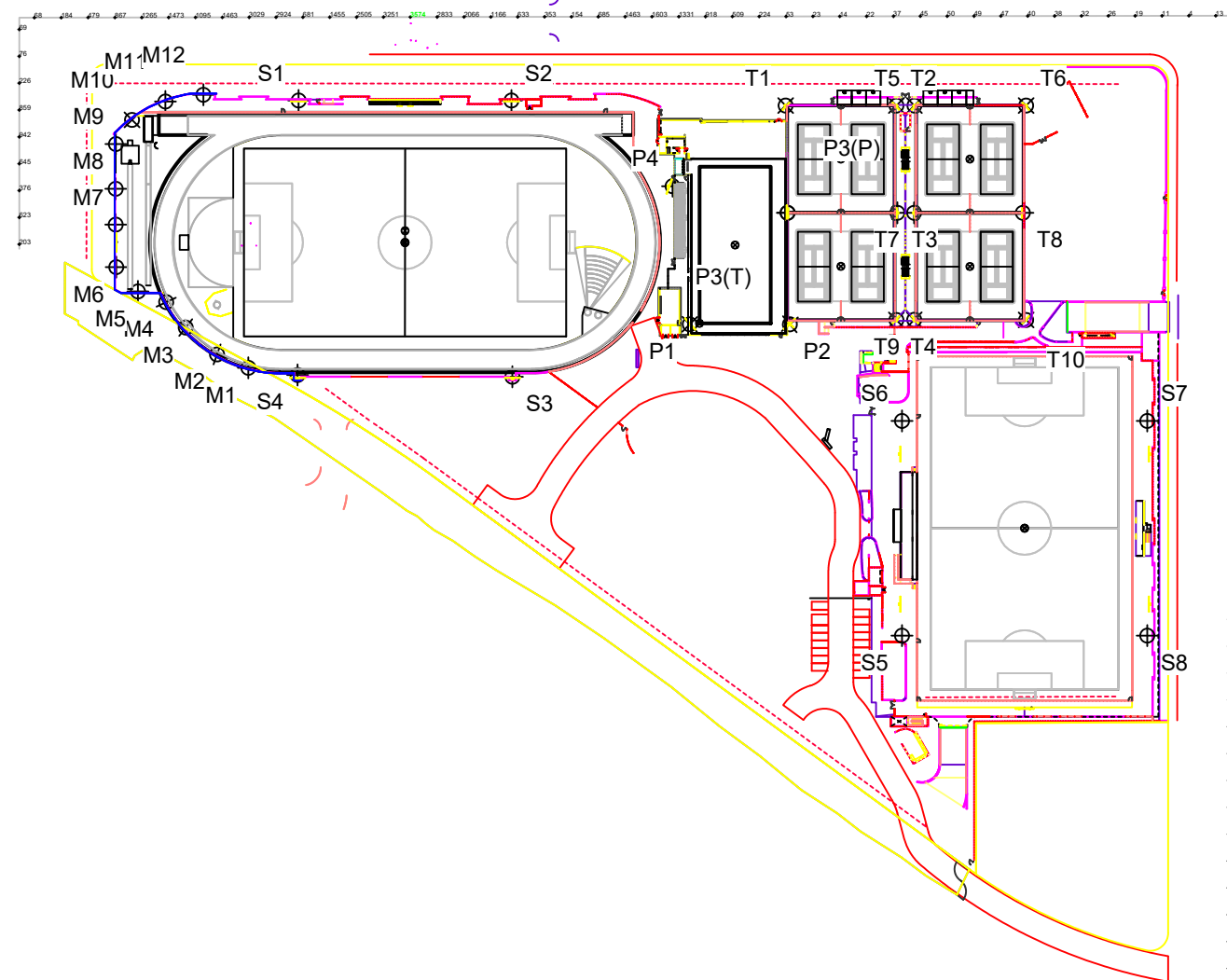
ILLUMINATION SUMMARY

Harvard Westlake Athletic Complex

Studio City, CA

GRID SUMMARY	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Entire Grid	636.9093
Scan Average:	3574.24
Maximum:	0.64
Minimum:	90
No. of Points:	
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	182
Total Load:	158.26 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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

NOTES: ALL FIXTURES ARE ON FOR THE SPILL SCANS ON THIS PAGE

SCALE IN FEET 1 : 200



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

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ILLUMINATION SUMMARY

EQUIPMENT LAYOUT

INCLUDES:

- Field A
- Field B
- Lower Soccer Egress
- Pool
- Pool Egress
- Tennis 1-2
- Tennis 3-4
- Tennis 5-6
- Tennis 7-8
- Track
- Upper Soccer Egress

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

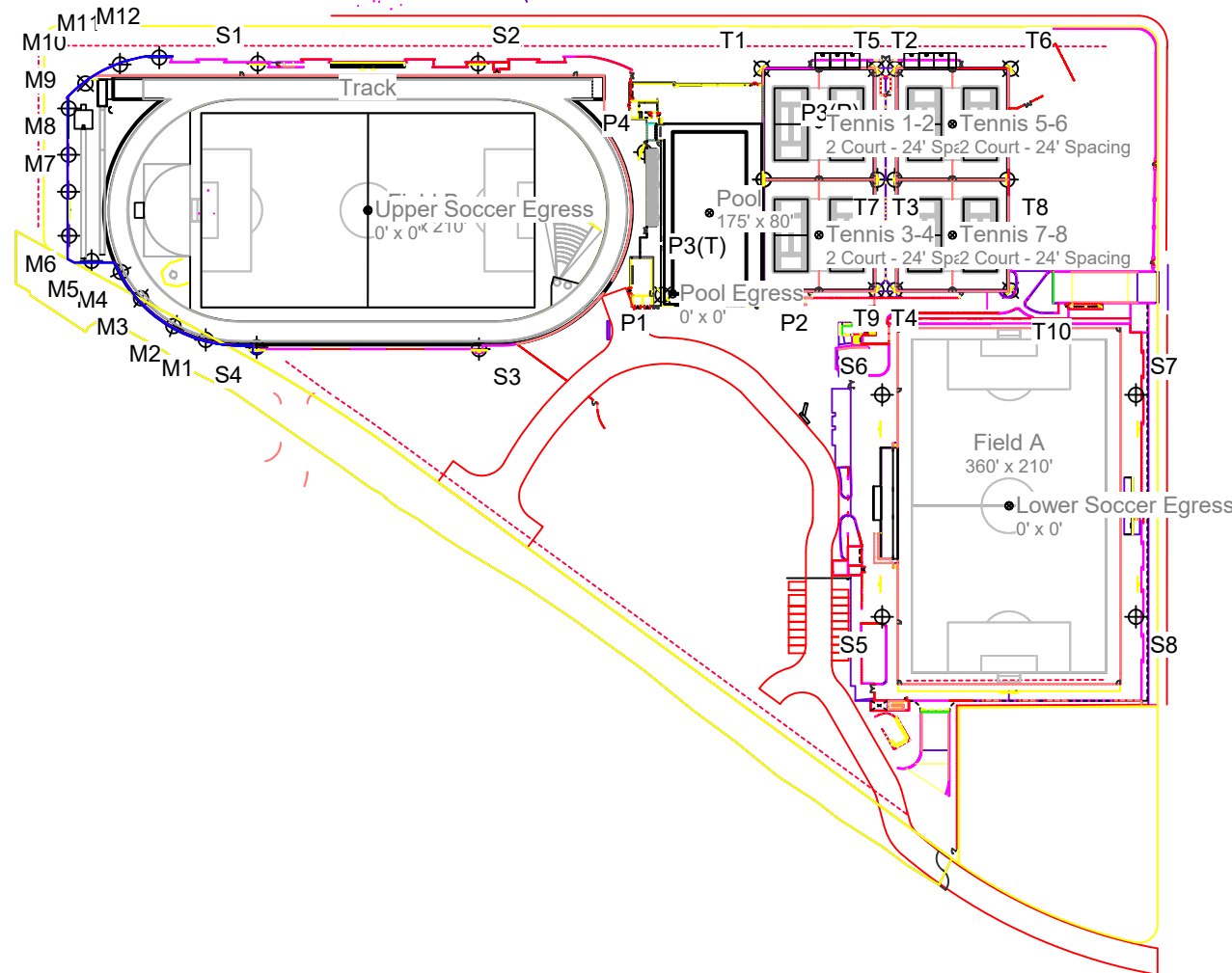
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
12	M1-M12		8'	8'	CREE OSQ	1
1	P1	55'	-	55'	TLC-LED-900	2
				55'	TLC-LED-600	2
1	P2	55'	-	55'	TLC-LED-900	2
				40'	TLC-LED-900	1
				40'	TLC-LED-600	2
				55'	TLC-LED-600	2
2	P3(P), P4	55'	-	55'	TLC-LED-600	1
				55'	TLC-LED-900	3
4	P3(T), T3	40'	-	40'	TLC-LED-900	2
				40'	TLC-LED-600	4
2	S1-S2	80'	0'	80'	TLC-LED-1500	1
				80'	TLC-LED-900	1
				80'	TLC-LED-400	1
				15.48'	TLC-BT-575	2
				80'	TLC-LED-1200	6
1	S3	80'	-	80'	TLC-LED-1200	2
				15.5'	TLC-BT-575	2
				80'	TLC-LED-900	7
1	S4	80'	-	80'	TLC-LED-900	5
				80'	TLC-LED-1200	2
				15.5'	TLC-BT-575	2
				80'	TLC-LED-600	2
4	S5-S8	80'	-	80'	TLC-LED-900	7
				80'	TLC-LED-400	1
				15.5'	TLC-BT-575	2
				80'	TLC-LED-1500	8
7	T1-T2	40'	-	40'	TLC-LED-900	1
	T4-T6			40'	TLC-LED-600	2
	T9-T10					
35	TOTALS					192

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	208	220	240	277	347	380	480
TLC-LED-600	3.4	3.2	3.0	2.6	2.0	1.9	1.5
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-LED-1500	8.5	8.1	7.4	6.4	5.1	4.7	3.7
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0
Cree OSQ	-	-	-	-	0.3	-	0.2



SCALE IN FEET 1 : 200



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



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TLC for LED[®]

Total Light Control™

Superior light control and long term reliability

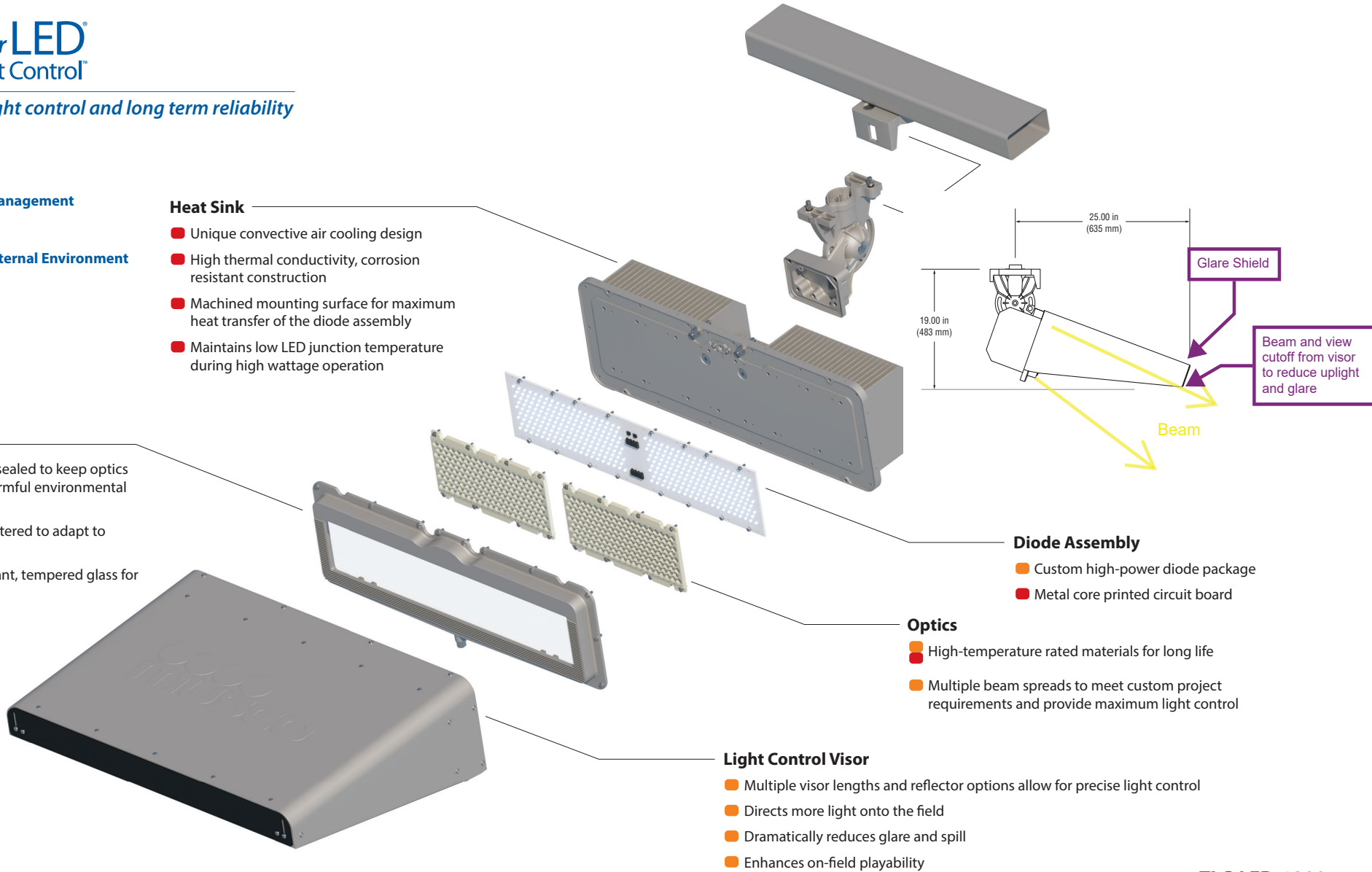
- Alignment
- Thermal Management
- LED Optic
- Housing Internal Environment

Heat Sink

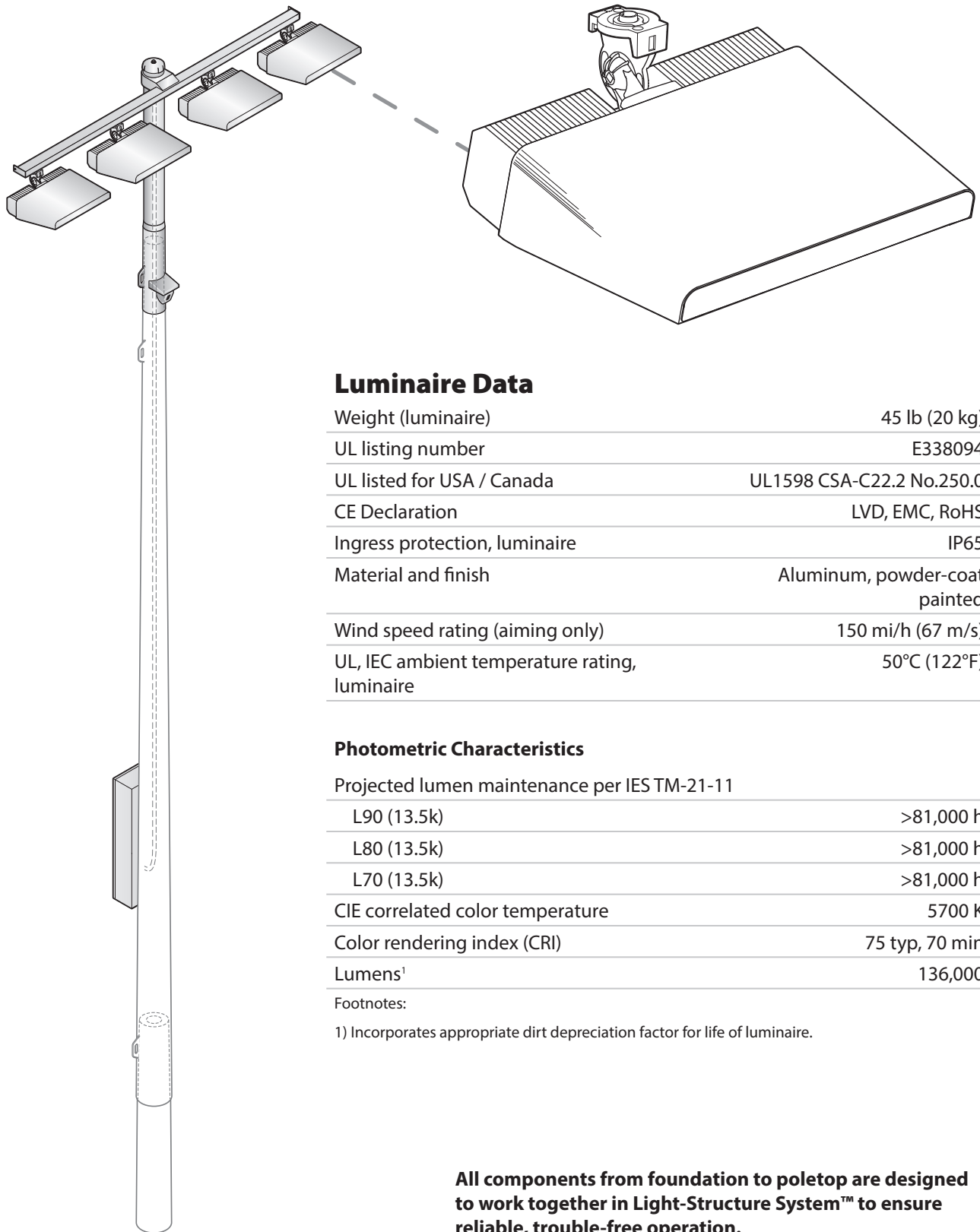
- Unique convective air cooling design
- High thermal conductivity, corrosion resistant construction
- Machined mounting surface for maximum heat transfer of the diode assembly
- Maintains low LED junction temperature during high wattage operation

Lens

- Permanently sealed to keep optics away from harmful environmental elements
- Vented and filtered to adapt to environment
- Impact-resistant, tempered glass for strength



Luminaire and Driver – TLC-LED-1200



Luminaire Data

Weight (luminaire)	45 lb (20 kg)
UL listing number	E338094
UL listed for USA / Canada	UL1598 CSA-C22.2 No.250.0
CE Declaration	LVD, EMC, RoHS
Ingress protection, luminaire	IP65
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating, luminaire	50°C (122°F)

Photometric Characteristics

Projected lumen maintenance per IES TM-21-11	
L90 (13.5k)	>81,000 h
L80 (13.5k)	>81,000 h
L70 (13.5k)	>81,000 h
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
Lumens ¹	136,000

Footnotes:

1) Incorporates appropriate dirt depreciation factor for life of luminaire.

All components from foundation to poletop are designed to work together in Light-Structure System™ to ensure reliable, trouble-free operation.

Luminaire and Driver – TLC-LED-1200

Driver Data

Electrical Data

Rated wattage¹

Per driver 1170 W

Per luminaire 1170 W

Number of luminaires per driver 1

Starting (inrush) current <40 A, 256 μs

Fuse rating 15 A

UL, IEC ambient temperature rating, electrical components enclosure 50°C (122°F)

Ingress protection, electrical components enclosure IP54

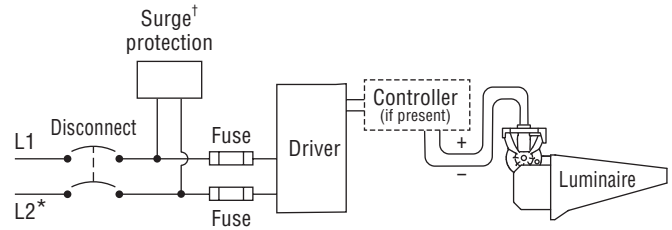
Efficiency 95%

Dimming mode optional

Range, energy consumption 14 – 100%

Range, light output 19 – 100%

Typical Wiring



* If L2 (com) is neutral then not switched or fused.
 † Not present if indoor installation.

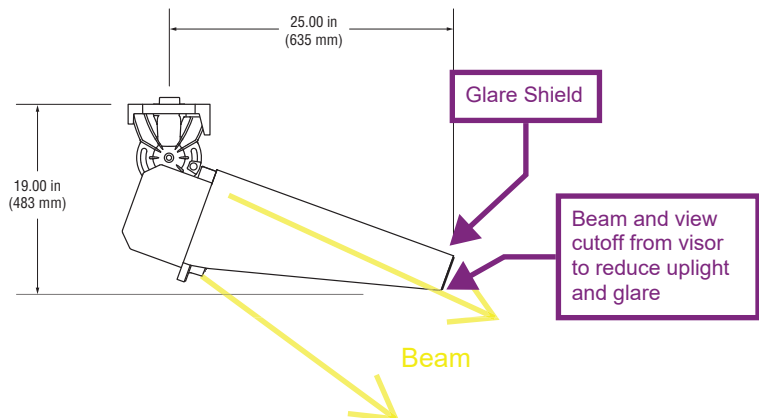
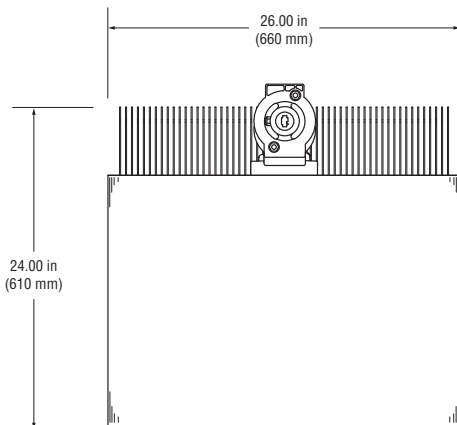
	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire ²	7.26 A	6.98 A	6.60 A	6.31 A	6.05 A	5.24 A	4.18 A	3.82 A	3.63 A	3.50 A	3.03 A

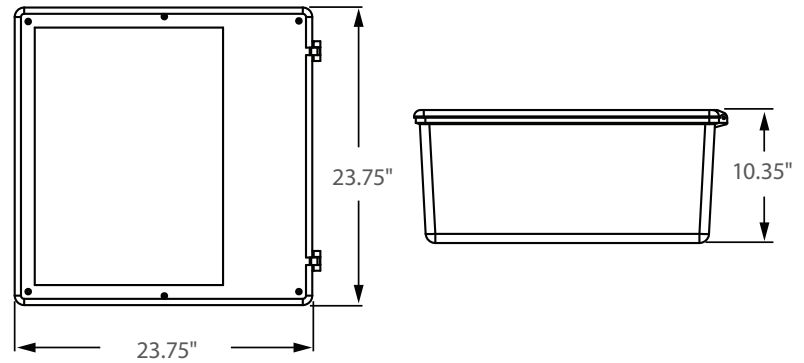
Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.





Incredible **100,000 hrs**

GENERAL DESCRIPTION

Neptun's 23" Induction flood fixture combines classic form and versatility to make it an excellent choice for new construction or retrofit applications. The 39 series flood fixture is offered in a variety of wattages and mounting options to provide maximum flexibility in all types of applications. It can replace existing HID & HPS fixtures up to 1000W.

APPLICATION

- Parking Lot Lighting
- Car Lot Lighting
- Area & Storage Lighting
- Street Lighting
- Walkway Lighting
- Building Accent Lighting
- Sign / Monument Lighting

STRUCTURE, MATERIALS, & FEATURES

- Heavy-gauge, die-cast aluminum housing.
- Custom designed anodized aluminum reflectors for superior illuminance.
- Heat and impact resistant tempered flat glass lens. (IESNA full-cutoff)
- Integral structural support plate for mounting arm ensures strength.
- Corrosion resistant electrocoat dark bronze finish (custom colors available).
- Hinged aluminum door frame incorporates stainless steel hardware.
- Continuous silicone gasketing surrounds lens for weather - tight seal.
- Inductively coupled circular induction bulb.
- High power factor, low THD electronic ballast with surge protection.
- Instant-On flicker-free Cold Start and Hot Re-Start.
- High quality glare-free light with high CRI above (83).
- Bright white light (5000°K) for greater visibility and safety.
- Advance phosphors for high lumen output and high lumen maintenance.
- Up to 20 year maintenance free operation with 10 Year Warranty.

ORDERING INFORMATION

Sample Number: 39250-UNV-SF-850-MD-FSGS-BRZ
 Custom options and accessories available. Please consult factory

Series	Wattage	Voltage	Mounting	Color Temp	Accessories	Color
39 = 23" Flood	200 = 200 W 250 = 250 W 300 = 300 W 400 = 400 W 500 = 500 W	UNV = 120-277 VAC 347 V = 347 VAC 480 V = 480 VAC	SF = Slip Fitter YK = Yoke Bracket	830 = 3000°K 841 = 4100°K 850 = 5000°K * * Standard	LD = Light Detector/Photocell MD = Motion Sensor Detector FSGS = Front Side Glare Shield	BRZ = Dark Bronze * Custom Colors Available



lightinnovations@work™

PRODUCT INFORMATION

Model No.	Description	Rated Watts	Input Watts	Initial Lumens	Universal Line Voltage (VAC)	Max Line Current (Amp) @ 120 - 277	THD	Power Factor	Weight
39200-UNV	23" FLOOD Fixture	200	210	16,000	120-277	1.75-0.75	<10%	0.98	55 lbs
39250-UNV	23" FLOOD Fixture	250	262	20,000	120-277	2.18-0.94	<10%	0.98	55 lbs
39300-UNV*	23" FLOOD Fixture	300	315	24,000	120-277	2.62-1.13	<10%	0.98	60 lbs
39400-UNV*	23" FLOOD Fixture	400	420	32,000	120-277	3.50-1.51	<10%	0.98	60 lbs
39500-UNV*	23" FLOOD Fixture	500	525	40,000	120-277	4.37-1.89	<10%	0.98	60 lbs

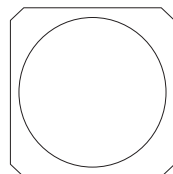
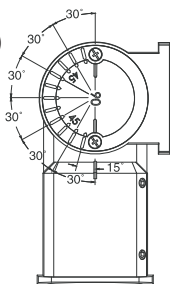
* Features dual bulbs & ballasts

SPECIFICATIONS

- Ballast Type Electronic
- Start Method InstantON
- Hot Re-start InstantON
- Universal Input Line Voltage 120-277 VAC
- Input Line Frequency 50/60 Hz
- Lamp Operating Frequency 250 kHz
- Ballast Off-State Draw 0 Watts
- Sound Rating Class A
- ANSI Surge Protection Class A
- Lamp / Ballast System Life 100,000 Hrs.
- Lumen Maintenance @75,000Hrs > 70%
- Color Temperature 5000°K
- Color Rendering Index (CRI) > 83
- Minimum Starting Temperature -20°F
- Maximum Starting Temperature 160°F
- Initial Lumens per Watt 80
- Shock / Vibration Resistant Yes
- Power Factor > 0.98
- Total Harmonic Distortion < 10%
- Inrush Current Peak < 10 Amp
- ETL Listed / UL Standard 1598 Yes
- FCC Compliance Part 18, Subp. C
- EPA Rating 1.77
- IP Rating IP65
- Warranty 10 Year

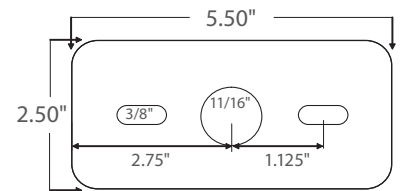
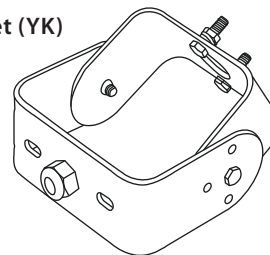
MOUNTING OPTIONS

Slip Fitter (SF)

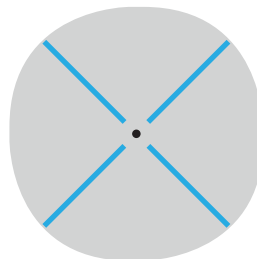


2-1/2" I.D.
Accepts up to 2-3/8"
Tenon or Pipe

Yoke Bracket (YK)



PHOTOMETRICS (See Complete IES File)



Type V Distribution

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Neptun Light, Inc. reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.
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