

Appendix A Lighting Plans for Arroyo Valley High School

Appendix

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Arroyo Valley High School Athletic Playfields

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-1500	5.72 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A3	70'	70'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
A4	70'	70'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
		50'	1	TLC-LED-900	0.89 kW	C
A5-A6	70'	70'	3	TLC-LED-900	2.67 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
A7	60'	60'	3	TLC-LED-900	2.67 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
		50'	1	TLC-LED-600	0.58 kW	B
A8	60'	60'	3	TLC-LED-900	2.67 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
B1	80'	80'	6	TLC-LED-1500	8.58 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		50'	1	TLC-LED-600	0.58 kW	A
B2	80'	80'	6	TLC-LED-1500	8.58 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		50'	2	TLC-LED-400	0.80 kW	A
B3-B4	80'	80'	8	TLC-LED-1500	11.44 kW	C
		80'	1	TLC-LED-400	0.40 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
B5-B6	80'	80'	5	TLC-LED-1200	5.85 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
B7-B8	70'	70'	6	TLC-LED-1200	7.02 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
C1-C2, D1-D2	70'	70'	3	TLC-LED-1500	4.29 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
C3-C4	60'	60'	4	TLC-LED-900	3.56 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
C5	80'	80'	5	TLC-LED-1500	7.15 kW	C
		16'	2	TLC-BT-575	1.15 kW	C
C6	80'	80'	5	TLC-LED-1500	7.15 kW	C
		80'	2	TLC-LED-900	1.78 kW	H
		16'	2	TLC-BT-575	1.15 kW	C
		40'	1	TLC-LED-400	0.40 kW	I
C7	80'	80'	4	TLC-LED-1500	5.72 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
		80'	2	TLC-LED-900	1.78 kW	H
		60'	1	TLC-LED-400	0.40 kW	I
C8	80'	80'	4	TLC-LED-1500	5.72 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
P1-P2	60'	60'	2	TLC-LED-900	1.78 kW	H
		40'	2	TLC-LED-400	0.80 kW	I
T1, T10	50'	50'	3	TLC-LED-600	1.74 kW	E
T2	50'	50'	3	TLC-LED-600	1.74 kW	E
		50'	3	TLC-LED-600	1.74 kW	F
T3, T8	50'	50'	6	TLC-LED-600	3.48 kW	F
T4	50'	50'	3	TLC-LED-600	1.74 kW	F
		50'	3	TLC-LED-600	1.74 kW	G
T5-T6	50'	50'	3	TLC-LED-600	1.74 kW	G
T7	50'	50'	3	TLC-LED-600	1.74 kW	G
		50'	3	TLC-LED-600	1.74 kW	F
T9	50'	50'	3	TLC-LED-600	1.74 kW	F
		50'	3	TLC-LED-600	1.74 kW	E
38			213		204.39 kW	

ENGINEERED DESIGN By: brendon guier File #207885CR2 09-JUN-21

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Arroyo Valley High School Athletic Playfields

San Bernardino, CA

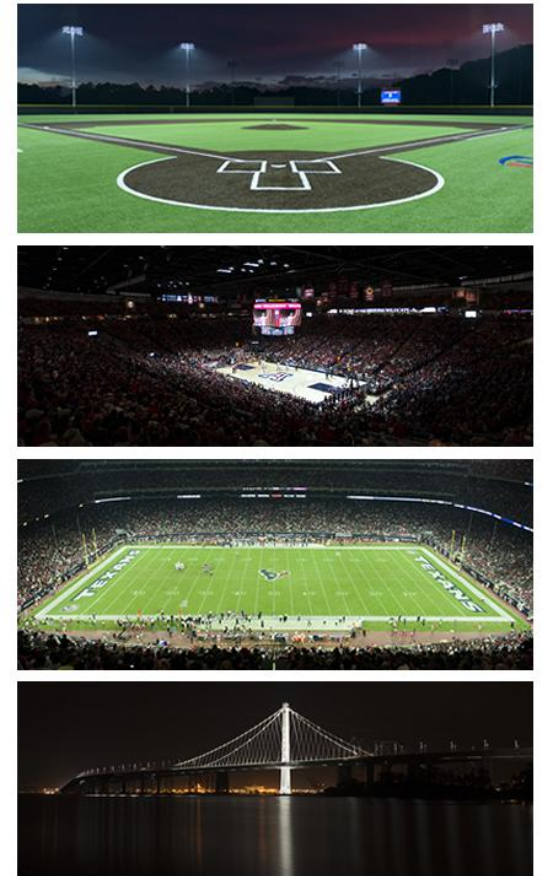
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Varsity Baseball	51.74 kW	43
B	Varsity Softball	30.53 kW	33
C	JV Baseball	52.83 kW	45
D	JV Softball	31.93 kW	30
E	Tennis 1-2	6.96 kW	12
F	Tennis 3-6	13.92 kW	24
G	Tennis 7-8	6.96 kW	12
H	Pool	7.12 kW	8
I	Pool Egress	2.4 kW	6

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	10
TLC-LED-600	LED 5700K - 75 CRI	580W	65,600	>120,000	>120,000	>120,000	50
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	66
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	30
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	28
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	29

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
JV Baseball (Infield)	Horizontal Illuminance	51.6	37	60	1.62	1.39	C	45
JV Baseball (Outfield)	Horizontal Illuminance	33.2	20	46	2.38	1.66	C	45
JV Softball (Infield)	Horizontal Illuminance	56.2	46	67	1.45	1.22	D	30
JV Softball (Outfield)	Horizontal Illuminance	34.2	20	53	2.64	1.71	D	30
JVBB Bullpen	Horizontal	24.8	15	32	2.10	1.65	C	45
North Spill (100' offset)	Horizontal	0.01	0	0.04	0.00		A,B,C,D,E, F,G,H,I	213
North Spill (100' offset)	Max Candela (by Fixture)	2607	0	12280	0.00		A,B,C,D,E, F,G,H,I	213
North Spill (100' offset)	Max Vertical Illuminance Metric	0.02	0	0.13	0.00		A,B,C,D,E, F,G,H,I	213
North Spill	Horizontal	1.89	0	12.3	0.00		A,B,C,D,E, F,G,H,I	213
North Spill	Max Candela (by Fixture)	25133	0	57636	0.00		A,B,C,D,E, F,G,H,I	213
North Spill	Max Vertical Illuminance Metric	2.36	0	11	0.00		A,B,C,D,E, F,G,H,I	213
Pool Deck	Horizontal	30.3	1	54	98.87	30.34	H,I	14
Pool Egress	Horizontal	8.80	0	19	177.19		I	6
Pool	Horizontal	50.9	34	63	1.84	1.50	H,I	14
Tennis 1-2	Horizontal Illuminance	55	37	68	1.81	1.49	E	12
Tennis 3-4	Horizontal Illuminance	52.5	39	64	1.64	1.35	F	24
Tennis 5-6	Horizontal Illuminance	51.6	40	63	1.56	1.29	F	24
Tennis 7-8	Horizontal Illuminance	53	35	67	1.89	1.51	G	12
VBB 1st Base Bullpen/Batting Cage	Horizontal	27.5	18	41	2.31	1.53	A	43
VBB 3rd Base Bullpen	Horizontal	27.2	20	32	1.63	1.36	A	43
VSB Batting Cage	Horizontal	26.9	14	37	2.65	1.92	B	33
Varsity Baseball (Infield)	Horizontal Illuminance	52.2	40	59	1.49	1.30	A	43
Varsity Baseball (Outfield)	Horizontal Illuminance	32.6	21	46	2.17	1.55	A	43
Varsity Softball (Infield)	Horizontal Illuminance	54.4	45	62	1.39	1.21	B	33
Varsity Softball (Outfield)	Horizontal Illuminance	33.9	21	45	2.10	1.61	B	33
West Spill (100' Offset)	Horizontal	0.01	0	0.08	0.00		A,B,C,D,E, F,G,H,I	213
West Spill (100' Offset)	Max Candela (by Fixture)	1348	45.8	3815	83.30	29.44	A,B,C,D,E, F,G,H,I	213

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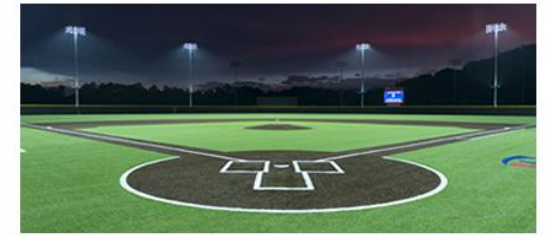
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Arroyo Valley High School Athletic Playfields

San Bernardino, CA

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
West Spill (100' Offset)	Max Vertical Illuminance Metric	0.03	0	0.16	591.16		A,B,C,D,E, F,G,H,I	213
West Spill	Horizontal	0.70	0	4.64	17209.83		A,B,C,D,E, F,G,H,I	213
West Spill	Max Candela (by Fixture)	19065	665	48393	72.80	28.68	A,B,C,D,E, F,G,H,I	213
West Spill	Max Vertical Illuminance Metric	1.02	0	4.79	1744.00		A,B,C,D,E, F,G,H,I	213

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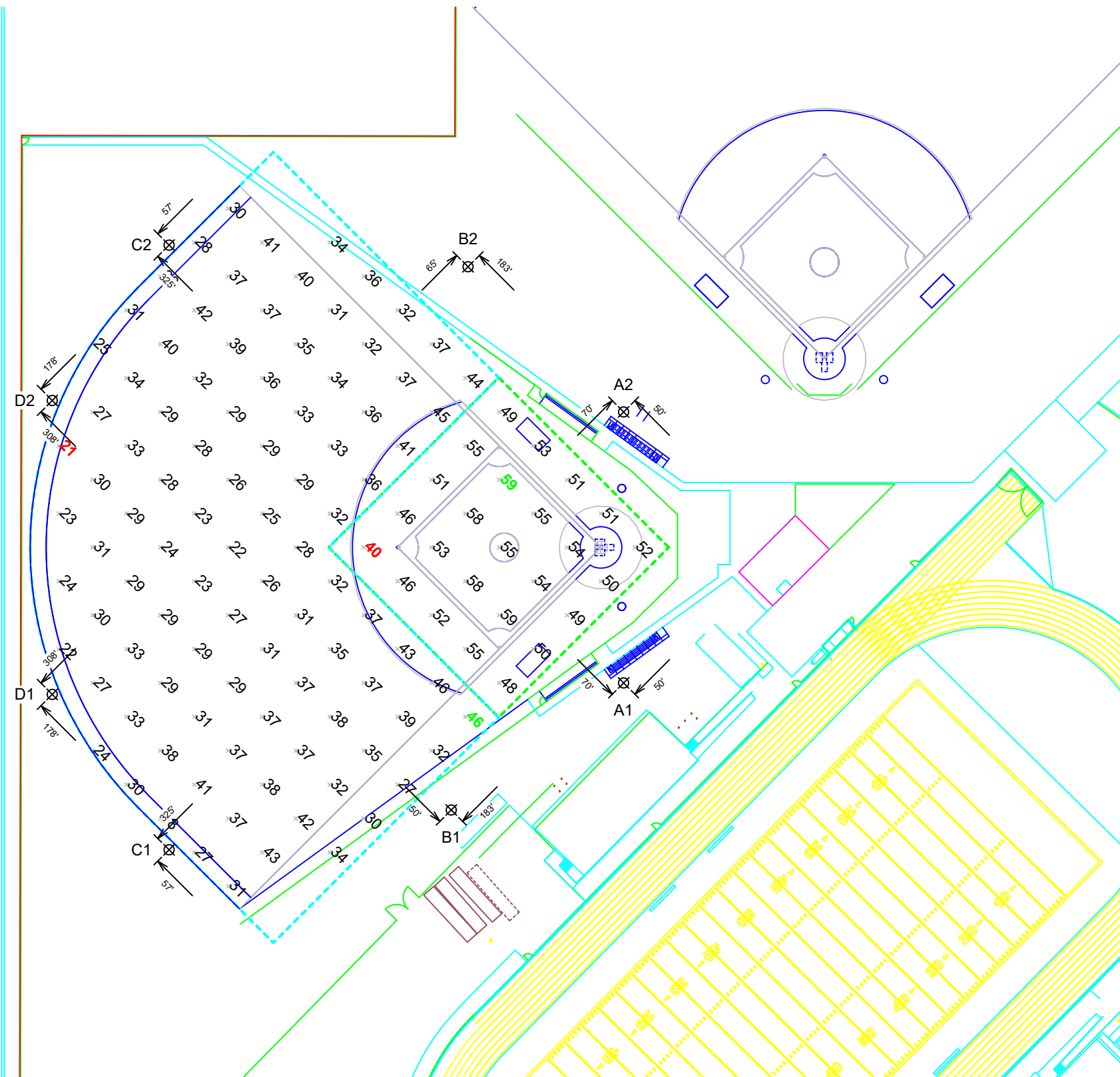
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	4	4	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	6	6	0
1	B2	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-400	2	2	0
				80'	TLC-LED-1500	6	6	0
				70'	TLC-LED-1500	3	3	0
4	C1-C2 D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
8	TOTALS					43	43	0

**Arroyo Valley High School Athletic Playfields
San Bernardino, CA**

GRID SUMMARY	
Name:	Varsity Baseball
Size:	Irregular 320' / 357' / 320'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	52.19	32.61
Maximum:	59	46
Minimum:	40	21
Avg / Min:	1.31	1.52
Guaranteed Max / Min:	2	2.5
Max / Min:	1.49	2.17
UG (adjacent pts):	1.18	1.46
CU:	0.74	
No. of Points:	25	98
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	43	
Total Load:	51.74 kW	

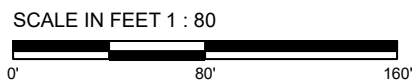


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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	A1-A2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	4	4	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	6	6	0
1	B2	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-400	2	2	0
				80'	TLC-LED-1500	6	6	0
				70'	TLC-LED-1500	3	3	0
4	C1-C2 D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
8	TOTALS					43	43	0

**Arroyo Valley High School Athletic Playfields
San Bernardino, CA**

GRID SUMMARY	
Name:	VBB 1st Base Bullpen/Batting Cage
Size:	Irregular 320' / 357' / 320'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

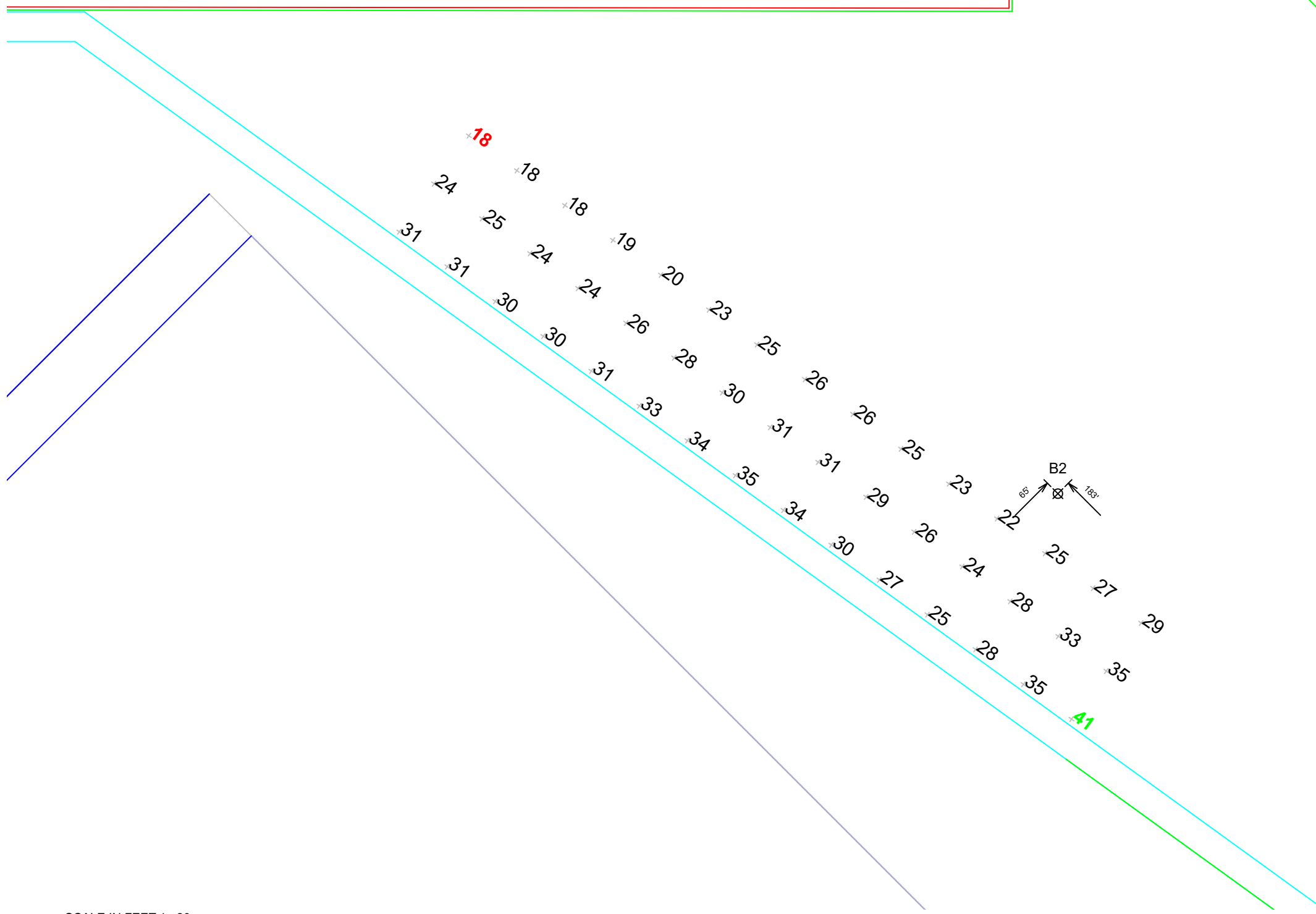
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	27.54
Maximum:	41
Minimum:	18
Avg / Min:	1.55
Max / Min:	2.31
UG (adjacent pts):	1.38
CU:	0.02
No. of Points:	45
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	43
Total Load:	51.74 kW

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

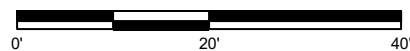
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 : 20



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	A1-A2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1500	4	4	0
1	B1	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				80'	TLC-LED-1500	6	6	0
1	B2	80'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-400	2	2	0
				80'	TLC-LED-1500	6	6	0
4	C1-C2 D1-D2	70'	-	70'	TLC-LED-1500	3	3	0
				15.5'	TLC-BT-575	1	1	0
8	TOTALS					43	43	0

GRID SUMMARY	
Name:	VBB 3rd Base Bullpen
Size:	Irregular 320' / 357' / 320'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

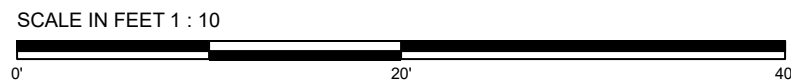
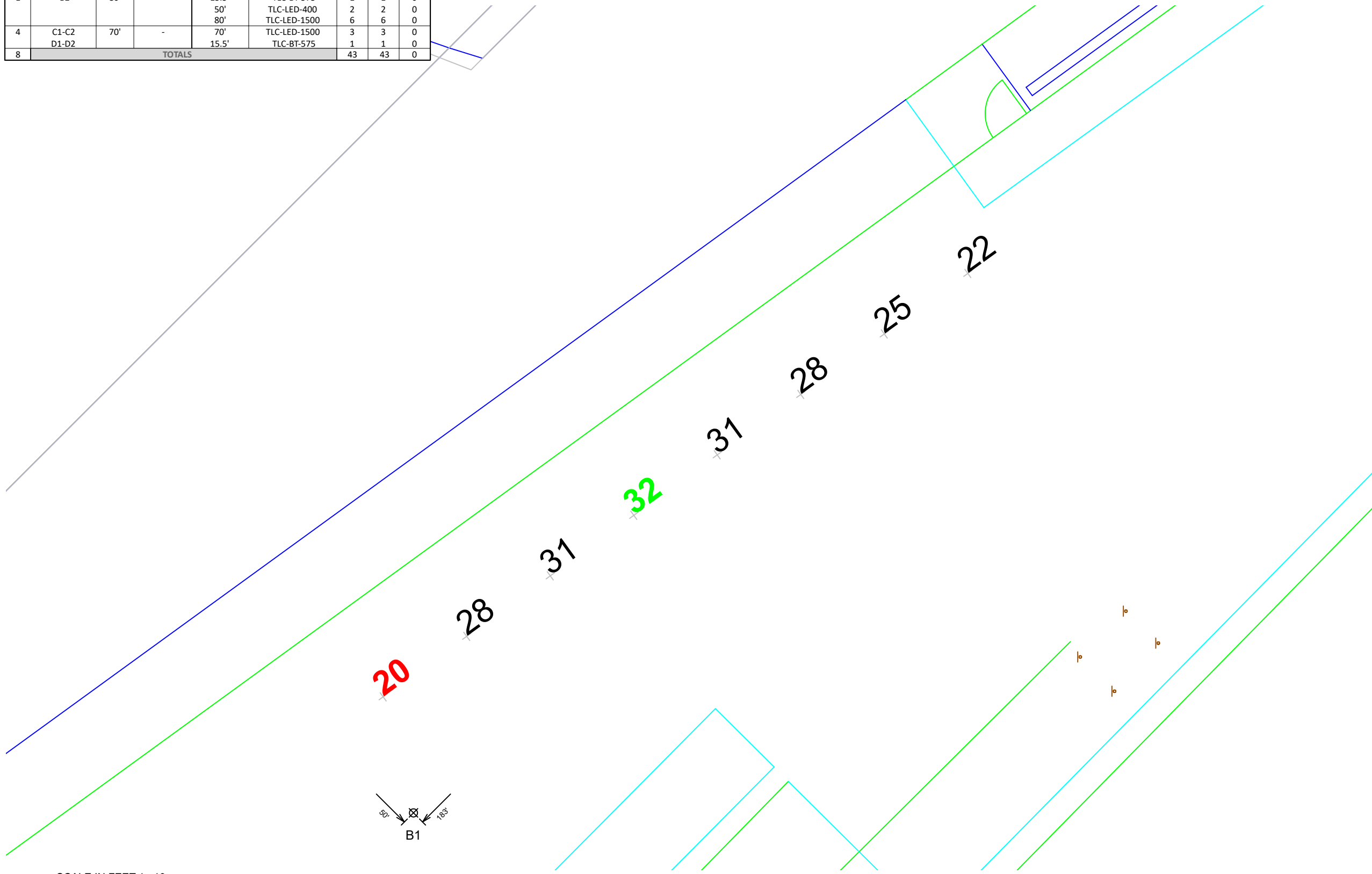
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	27.15
Maximum:	32
Minimum:	20
Avg / Min:	1.38
Max / Min:	1.63
UG (adjacent pts):	1.40
CU:	0.00
No. of Points:	8
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	43
Total Load:	51.74 kW

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	A5-A6	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	3	3	0
2	B5-B6	80'	-	15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1200	5	5	0
1	C7	80'	0'	80'	TLC-LED-900	2*	0	2
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	4	4	0
1	C8	80'	0'	15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1500	4	4	0
6	TOTALS					33	30	3

*This structure utilizes a back-to-back mounting configuration

GRID SUMMARY	
Name:	JV Softball
Size:	260'/260'/260' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

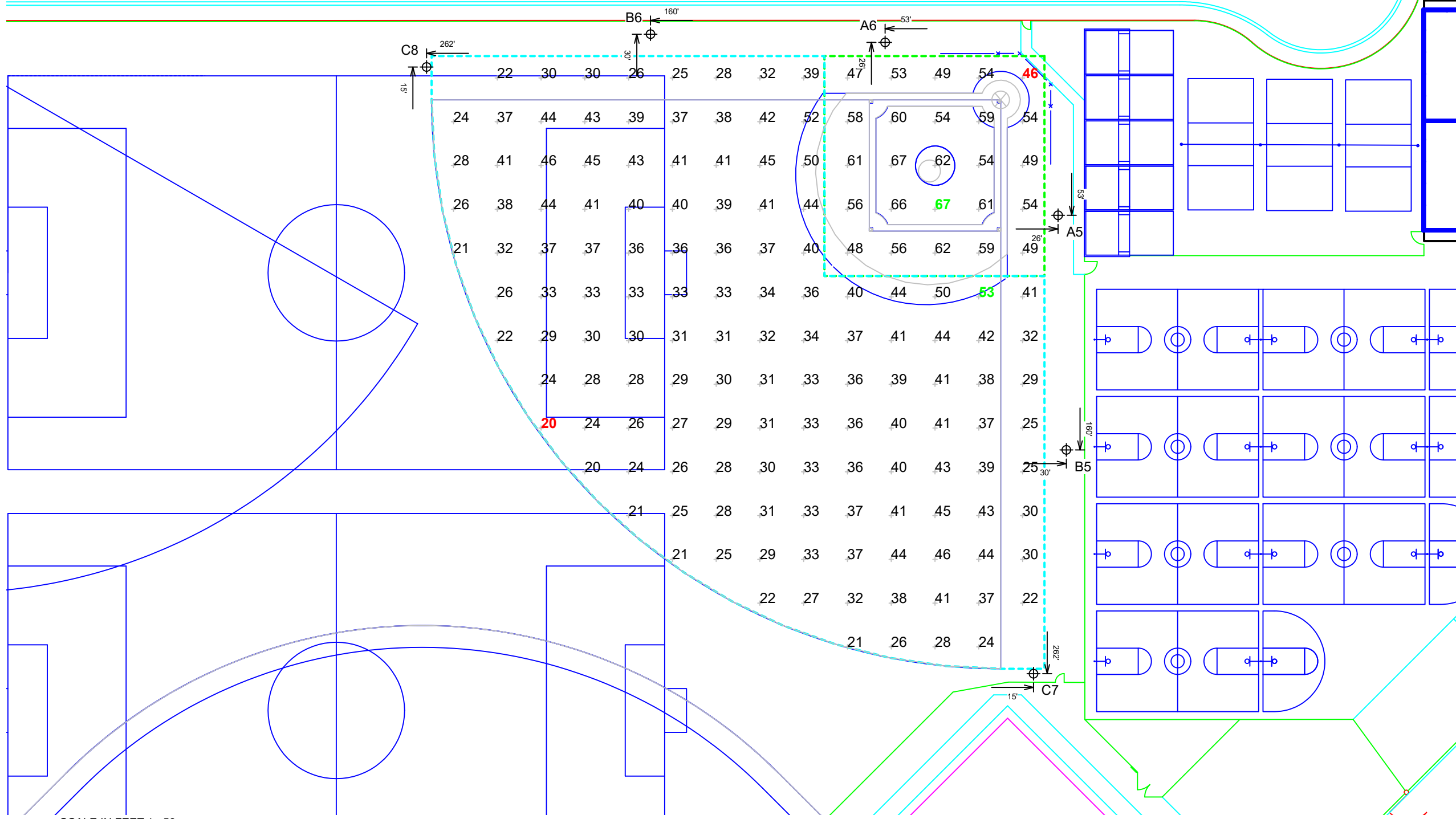
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	56.22	34.18
Maximum:	67	53
Minimum:	46	20
Avg / Min:	1.21	1.69
Guaranteed Max / Min:	2	2.5
Max / Min:	1.45	2.64
UG (adjacent pts):	1.23	1.68
CU:	0.71	
No. of Points:	25	135
LUMINAIRE INFORMATION		
Applied Circuits:	D	
No. of Luminaires:	30	
Total Load:	31.93 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 : 50
0' 50' 100'

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



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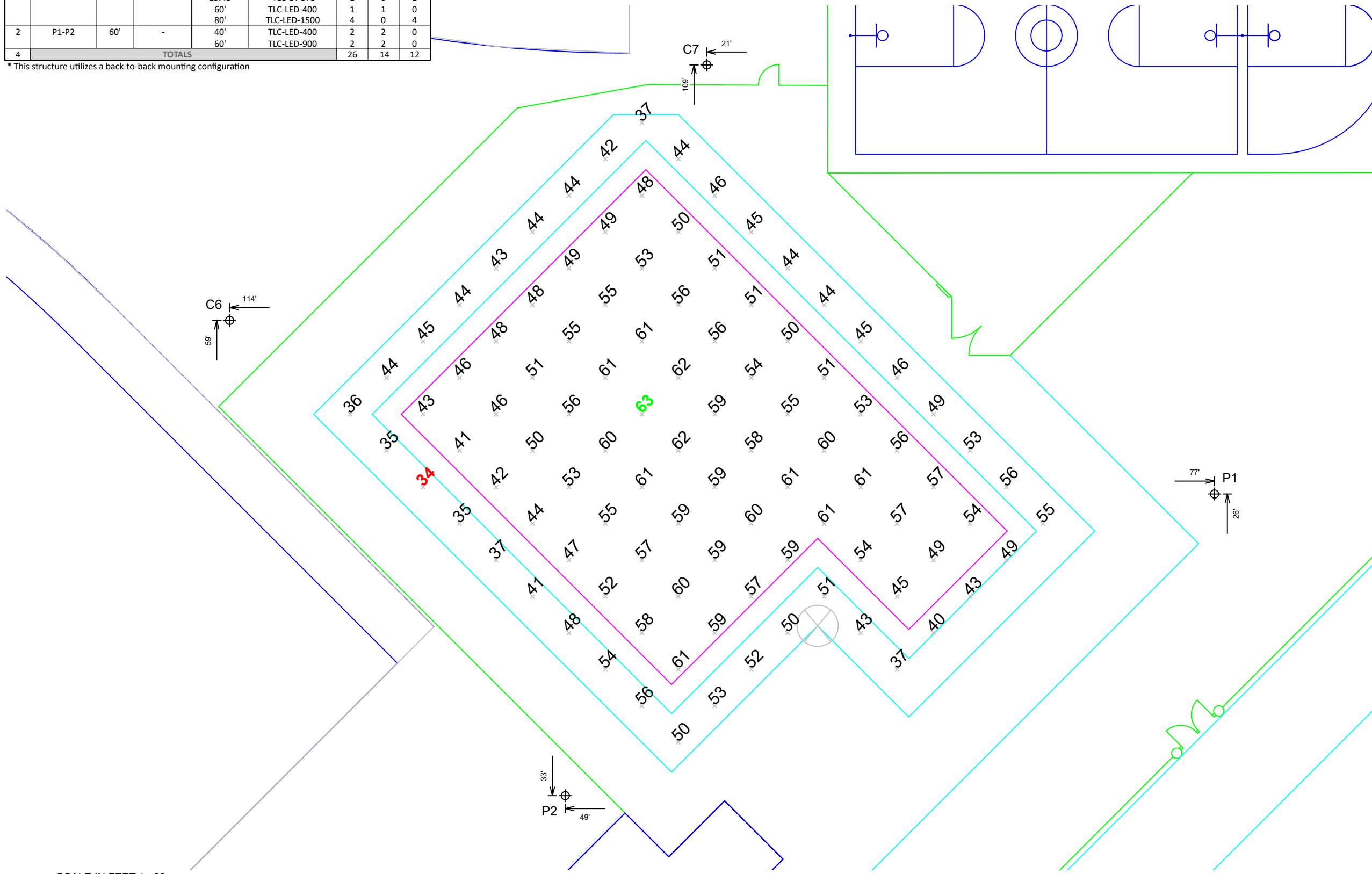
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EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID / OTHER GRIDS
1	C6	80'	0'	80'	TLC-LED-900	2	2 0
				15.46'	TLC-BT-575	2	0 2
				40'	TLC-LED-400	1	1 0
				80'	TLC-LED-1500	5	0 5
1	C7	80'	0'	80'	TLC-LED-900	2*	2 0
				15.48'	TLC-BT-575	1	0 1
				60'	TLC-LED-400	1	1 0
				80'	TLC-LED-1500	4	0 4
2	P1-P2	60'	-	40'	TLC-LED-400	2	2 0
				60'	TLC-LED-900	2	2 0
4	TOTALS					26	14 12

* This structure utilizes a back-to-back mounting configuration

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

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	50.87
Maximum:	63
Minimum:	34
Avg / Min:	1.48
Max / Min:	1.84
UG (adjacent pts):	1.22
CU:	0.53
No. of Points:	100
LUMINAIRE INFORMATION	
Applied Circuits:	H, I
No. of Luminaires:	14
Total Load:	9.52 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.

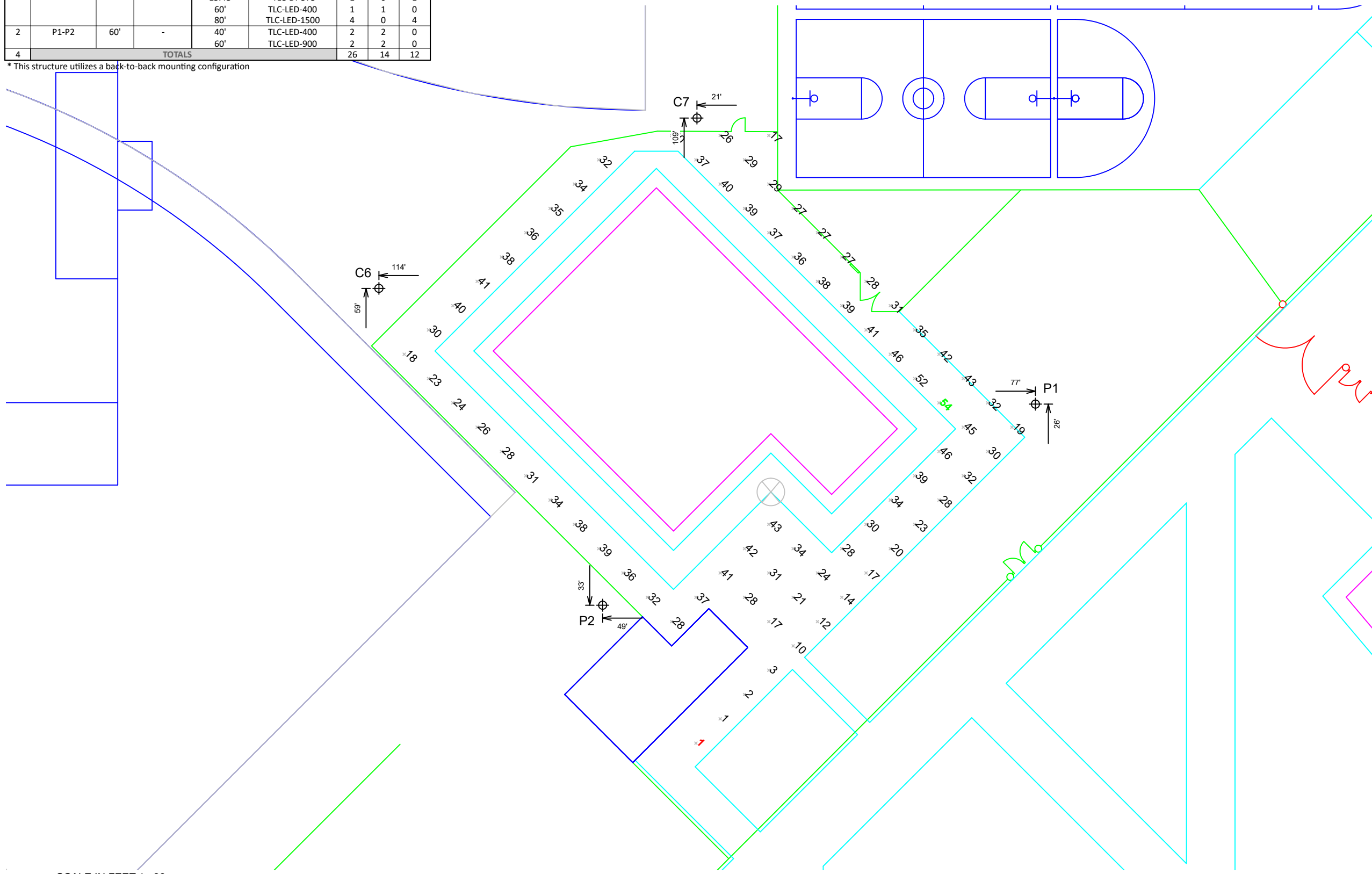


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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	C6	80'	0'	80'	TLC-LED-900	2	2	0
				15.46'	TLC-BT-575	2	0	2
				40'	TLC-LED-400	1	1	0
				80'	TLC-LED-1500	5	0	5
1	C7	80'	0'	80'	TLC-LED-900	2*	2	0
				15.48'	TLC-BT-575	1	0	1
				60'	TLC-LED-400	1	1	0
				80'	TLC-LED-1500	4	0	4
2	P1-P2	60'	-	40'	TLC-LED-400	2	2	0
				60'	TLC-LED-900	2	2	0
4	TOTALS					26	14	12

* This structure utilizes a back-to-back mounting configuration



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

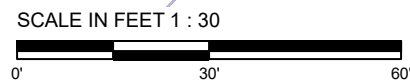
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	30.34
Maximum:	54
Minimum:	1
Avg / Min:	55.06
Max / Min:	98.87
UG (adjacent pts):	3.48
CU:	0.24
No. of Points:	75
LUMINAIRE INFORMATION	
Applied Circuits:	H, I
No. of Luminaires:	14
Total Load:	9.52 kW

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) ⊗

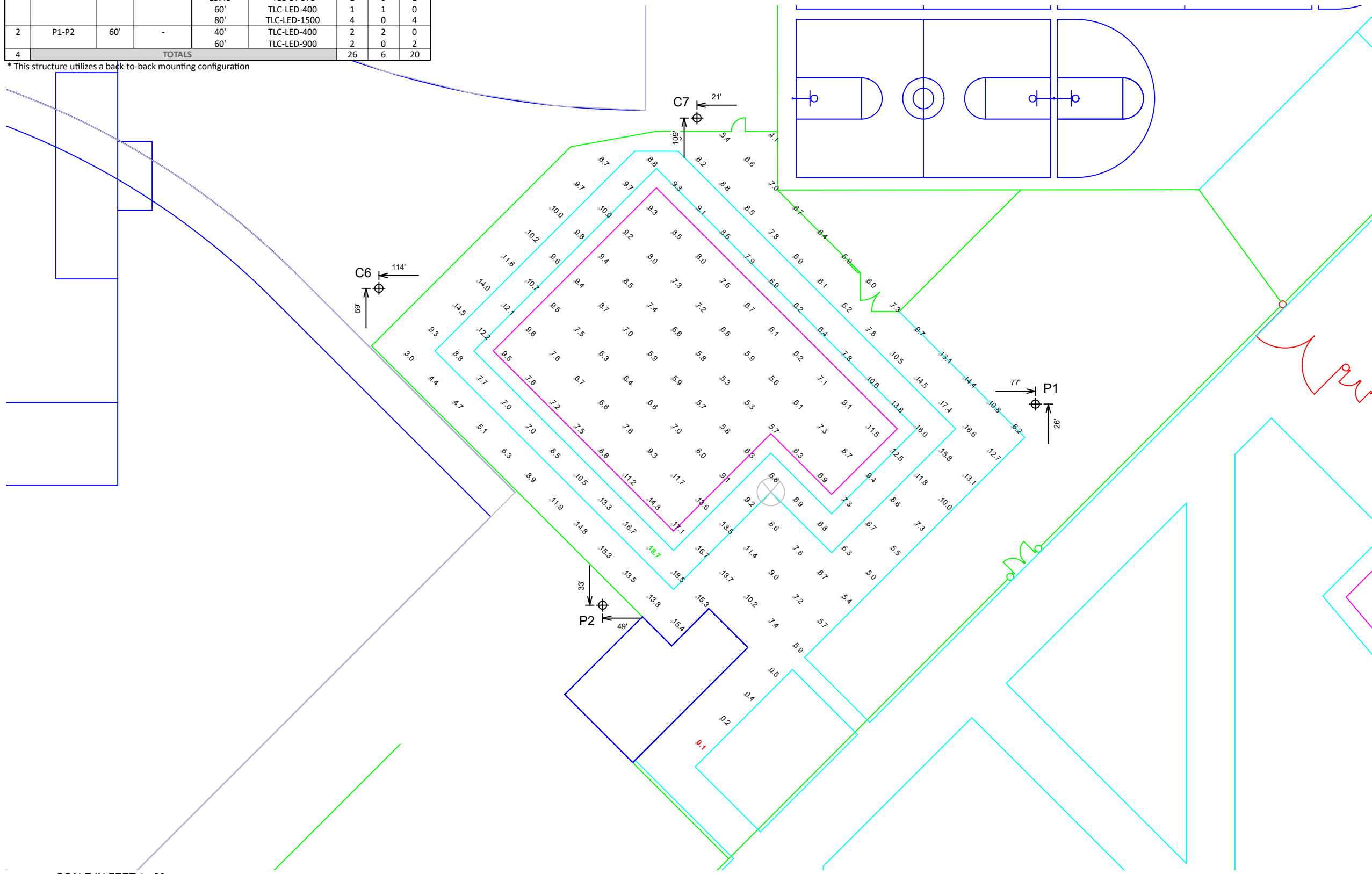


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EQUIPMENT LIST FOR AREAS SHOWN							
Pole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID / OTHER GRIDS
1	C6	80'	0'	80'	TLC-LED-900	2	0 / 2
				15.46'	TLC-BT-575	2	0 / 2
				40'	TLC-LED-400	1	1 / 0
				80'	TLC-LED-1500	5	0 / 5
1	C7	80'	0'	80'	TLC-LED-900	2*	0 / 2
				15.48'	TLC-BT-575	1	0 / 1
				60'	TLC-LED-400	1	1 / 0
				80'	TLC-LED-1500	4	0 / 4
2	P1-P2	60'	-	40'	TLC-LED-400	2	2 / 0
				60'	TLC-LED-900	2	0 / 2
4	TOTALS					26	6 / 20

* This structure utilizes a back-to-back mounting configuration



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:	8.80
Maximum:	19
Minimum:	0
Avg / Min:	83.59
Max / Min:	177.19
UG (adjacent pts):	11.12
CU:	0.61
No. of Points:	175

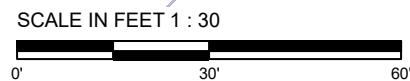
LUMINAIRE INFORMATION	
Applied Circuits:	1
No. of Luminaires:	6
Total Load:	2.4 kW

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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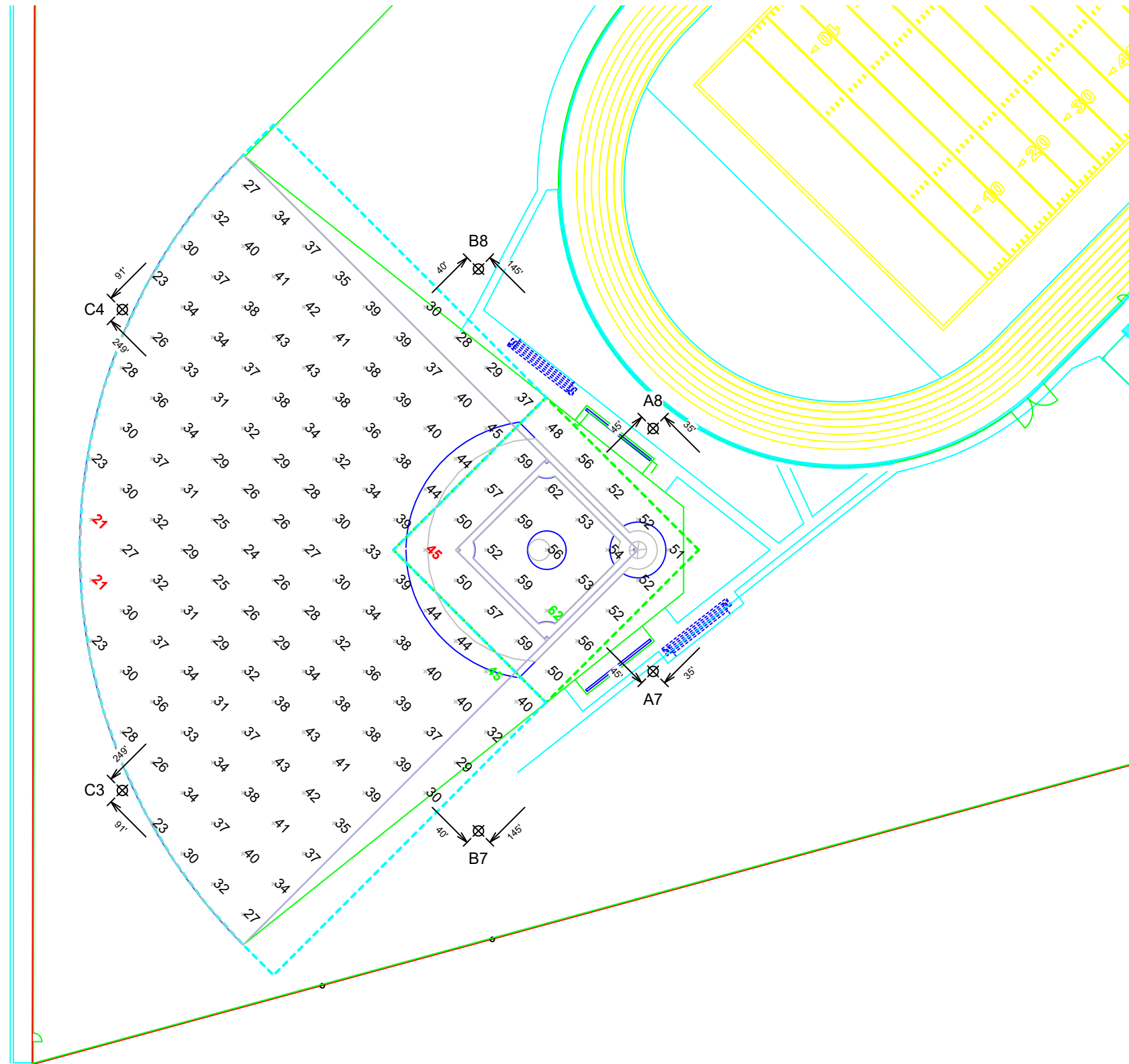
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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A7	60'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	A8	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
				70'	TLC-LED-1200	6	6	0
2	B7-B8	70'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
				70'	TLC-LED-1200	6	6	0
2	C3-C4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	4	4	0
				60'	TLC-LED-900	4	4	0
6	TOTALS					33	33	0

Arroyo Valley High School Athletic Playfields
San Bernardino, CA

GRID SUMMARY	
Name:	Varsity Softball
Size:	260'/260'/260' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	54.35	33.91
Maximum:	62	45
Minimum:	45	21
Avg / Min:	1.21	1.59
Guaranteed Max / Min:	2	2.5
Max / Min:	1.39	2.10
UG (adjacent pts):	1.22	1.46
CU:	0.69	
No. of Points:	25	127
LUMINAIRE INFORMATION		
Applied Circuits:	B	
No. of Luminaires:	33	
Total Load:	30.53 kW	



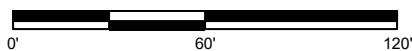
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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 : 60



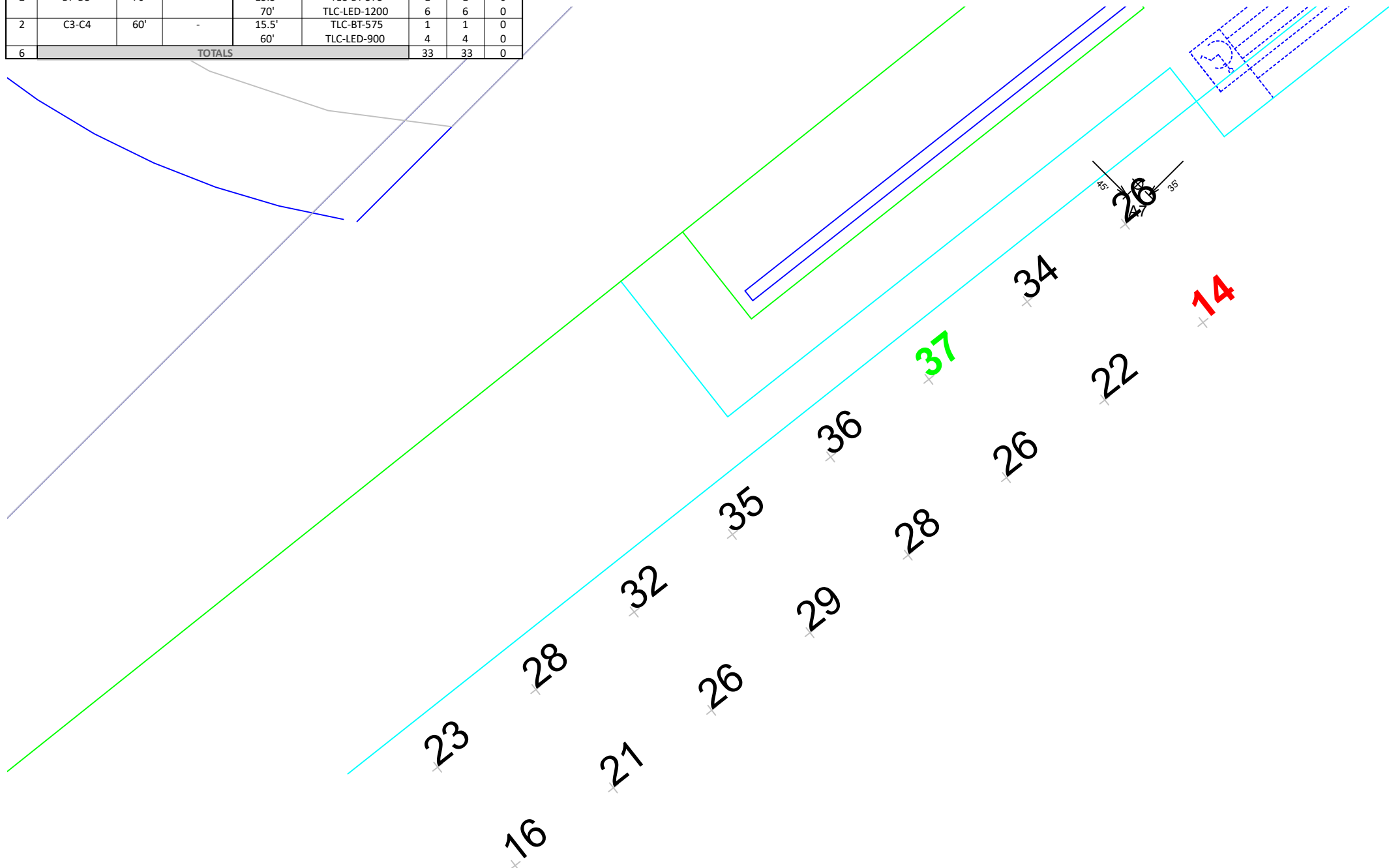
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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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
1	A7	60'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-600	1	1	0
				60'	TLC-LED-900	3	3	0
1	A8	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
2	B7-B8	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	6	6	0
2	C3-C4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	4	4	0
6	TOTALS					33	33	0



GRID SUMMARY	
Name:	VSF Batting Cage
Size:	260'/260'/260' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	26.92
Maximum:	37
Minimum:	14
Avg / Min:	1.93
Max / Min:	2.65
UG (adjacent pts):	1.83
CU:	0.01
No. of Points:	16
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	33
Total Load:	30.53 kW

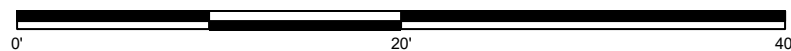
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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 : 10



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
1	A3	70'	0'	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	4	4	0
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-900	1	1	0
				70'	TLC-LED-1200	4	4	0
1	B3	80'	0'	80'	TLC-LED-1500	8	8	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-400	1	1	0
1	B4	80'	0'	80'	TLC-LED-1500	8	8	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-400	1	1	0
1	C5	80'	0'	15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
1	C6	80'	0'	80'	TLC-LED-900	2	0	2
				15.5'	TLC-BT-575	2	2	0
				40'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	5	5	0
6	TOTALS					48	45	3

GRID SUMMARY	
Name:	JV Baseball
Size:	Irregular 320' / 357' / 320'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

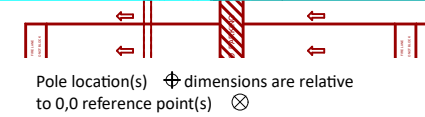
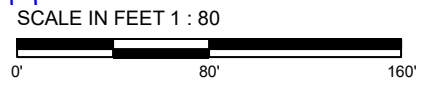
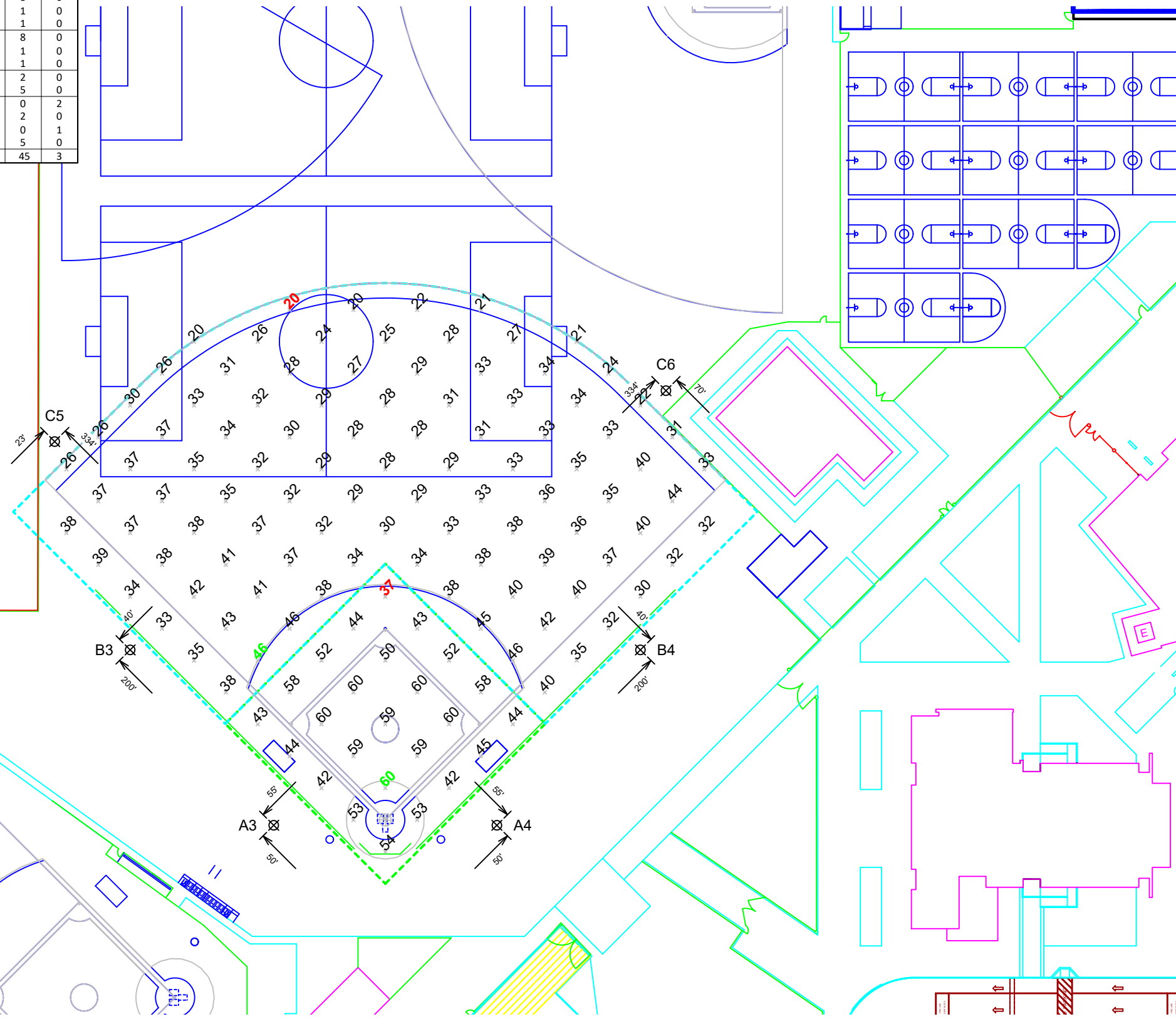
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.61	33.16
Maximum:	60	46
Minimum:	37	20
Avg / Min:	1.40	1.70
Guaranteed Max / Min:	2	2.5
Max / Min:	1.62	2.38
UG (adjacent pts):	1.39	1.62
CU:	0.74	
No. of Points:	25	100
LUMINAIRE INFORMATION		
Applied Circuits:	C	
No. of Luminaires:	45	
Total Load:	52.83 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	A3	70'	0'	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-1200	4	4	0
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0
				50'	TLC-LED-900	1	1	0
				70'	TLC-LED-1200	4	4	0
1	B3	80'	0'	80'	TLC-LED-1500	8	8	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-400	1	1	0
1	B4	80'	0'	80'	TLC-LED-1500	8	8	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-400	1	1	0
1	C5	80'	0'	15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5	5	0
1	C6	80'	0'	80'	TLC-LED-900	2	0	2
				15.5'	TLC-BT-575	2	2	0
				40'	TLC-LED-400	1	0	1
				80'	TLC-LED-1500	5	5	0
6	TOTALS					48	45	3

GRID SUMMARY	
Name:	JVBB Bullpen
Size:	Irregular 320' / 357' / 320'
Spacing:	10.0' x 10.0'
Height:	0.0' above grade

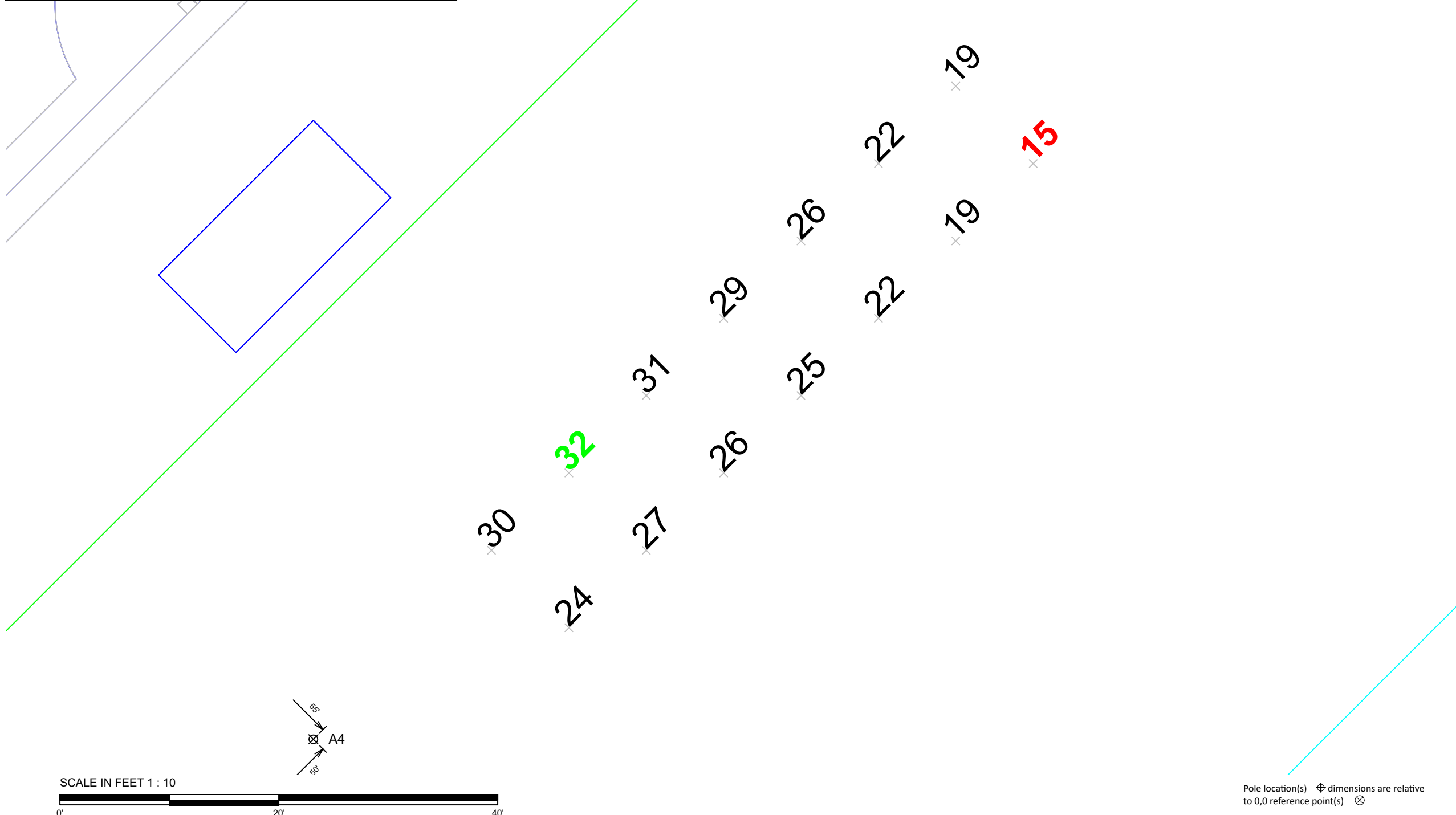
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	24.79
Maximum:	32
Minimum:	15
Avg / Min:	1.62
Max / Min:	2.10
UG (adjacent pts):	1.23
CU:	0.01
No. of Points:	14
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	45
Total Load:	52.83 kW

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

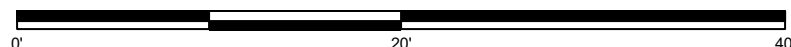
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 : 10



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	T1, T10	50'	-	50'	TLC-LED-600	3	3	0
2	T2, T9	50'	-	50'	TLC-LED-600	6	3	3
4	TOTALS					18	12	6

GRID SUMMARY	
Name:	Tennis 1-2
Size:	2 Court - 14' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

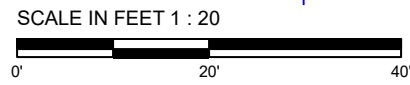
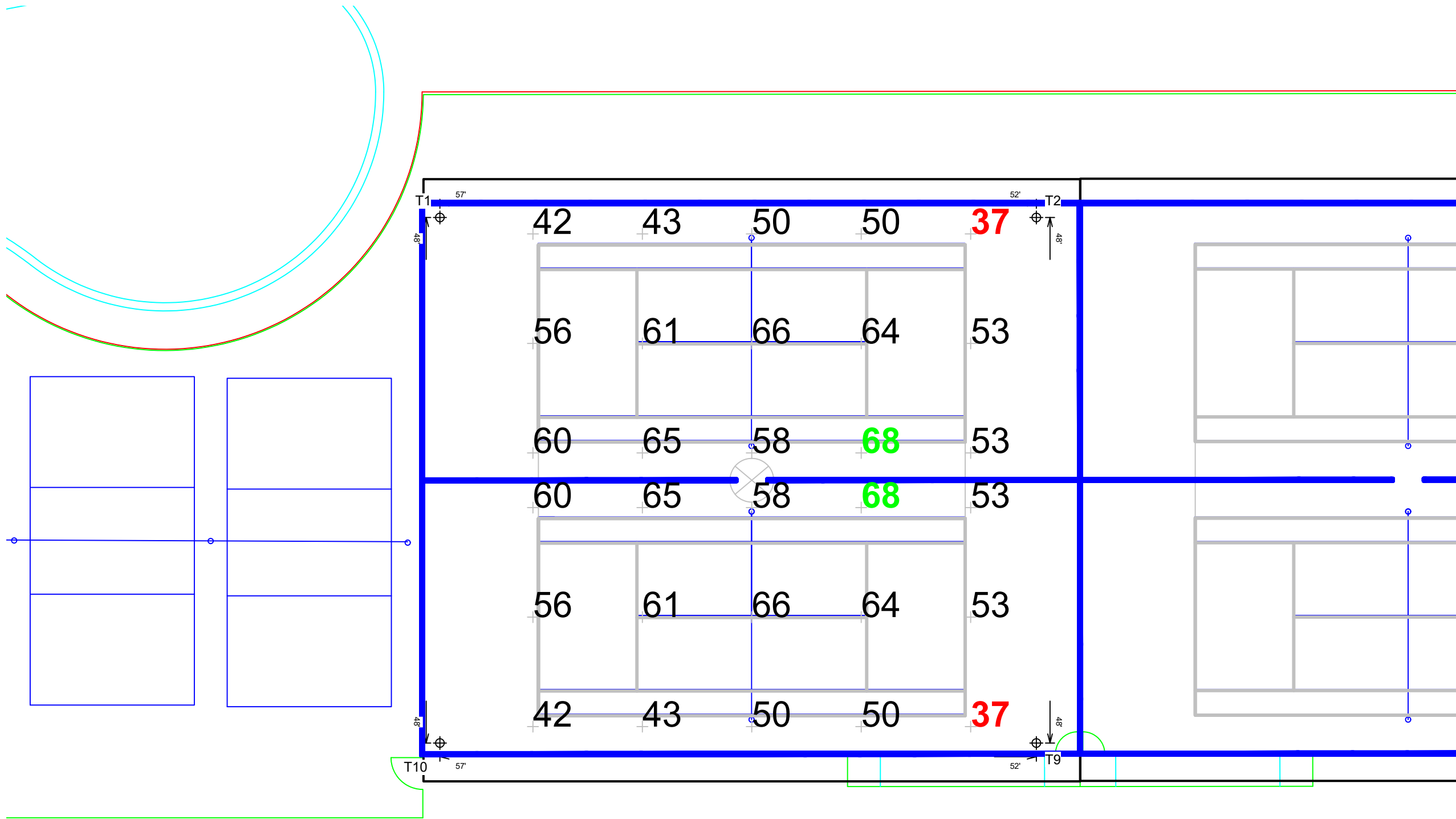
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	54.99
Maximum:	68
Minimum:	37
Avg / Min:	1.48
Guaranteed Max / Min:	2
Max / Min:	1.81
UG (adjacent pts):	0.00
CU:	0.87
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	12
Total Load:	6.96 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) \oplus dimensions are relative to 0,0 reference point(s) \otimes



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T2, T4, T7 T9	50'	-	50'	TLC-LED-600	6	3	3
2	T3, T8	50'	-	50'	TLC-LED-600	6	6	0
6	TOTALS					36	24	12

GRID SUMMARY	
Name:	Tennis 3-4
Size:	2 Court - 14' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

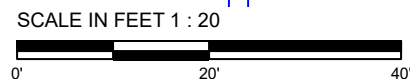
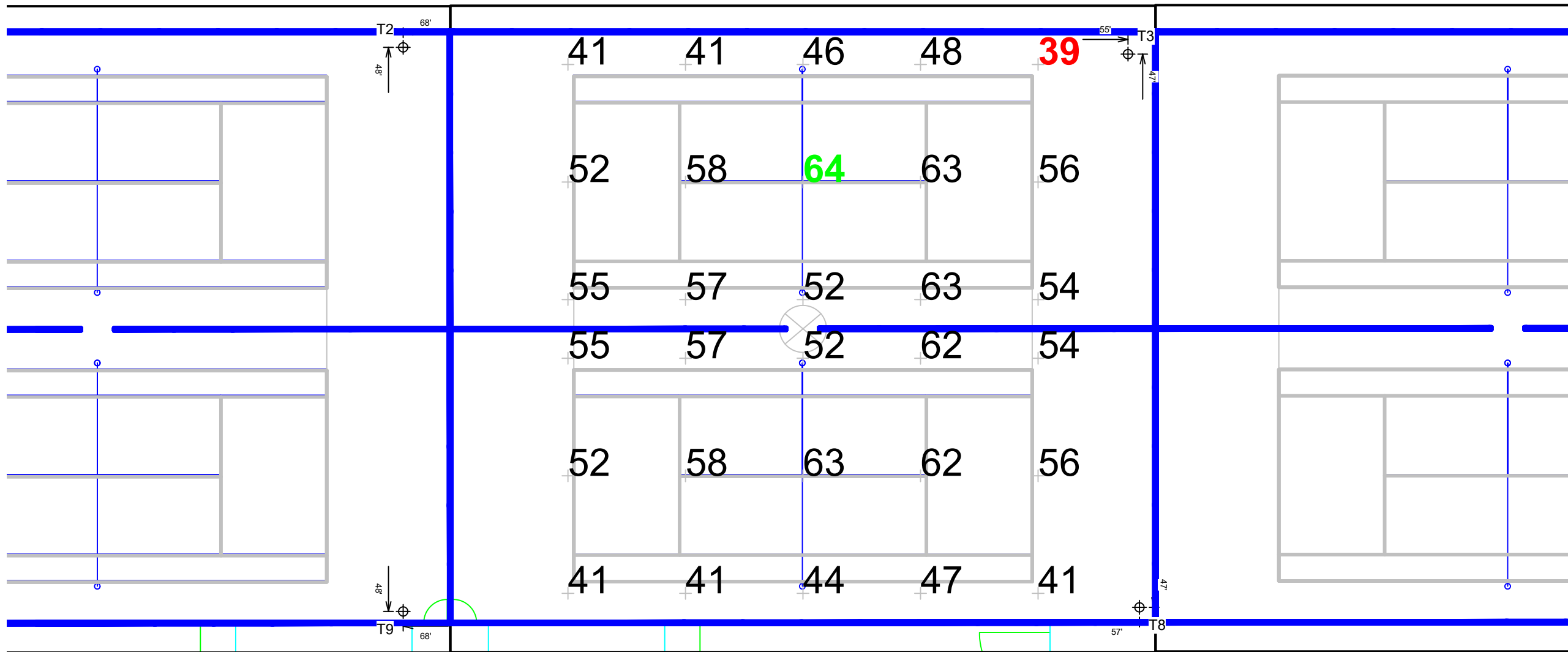
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	52.52
Maximum:	64
Minimum:	39
Avg / Min:	1.34
Guaranteed Max / Min:	2
Max / Min:	1.64
UG (adjacent pts):	0.00
CU:	0.41
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	24
Total Load:	13.92 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
4	T2, T4, T7 T9	50'	-	50'	TLC-LED-600	6	3	3
2	T3, T8	50'	-	50'	TLC-LED-600	6	6	0
6	TOTALS					36	24	12

GRID SUMMARY	
Name:	Tennis 5-6
Size:	2 Court - 14' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

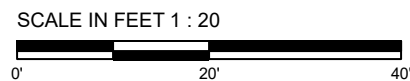
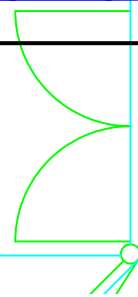
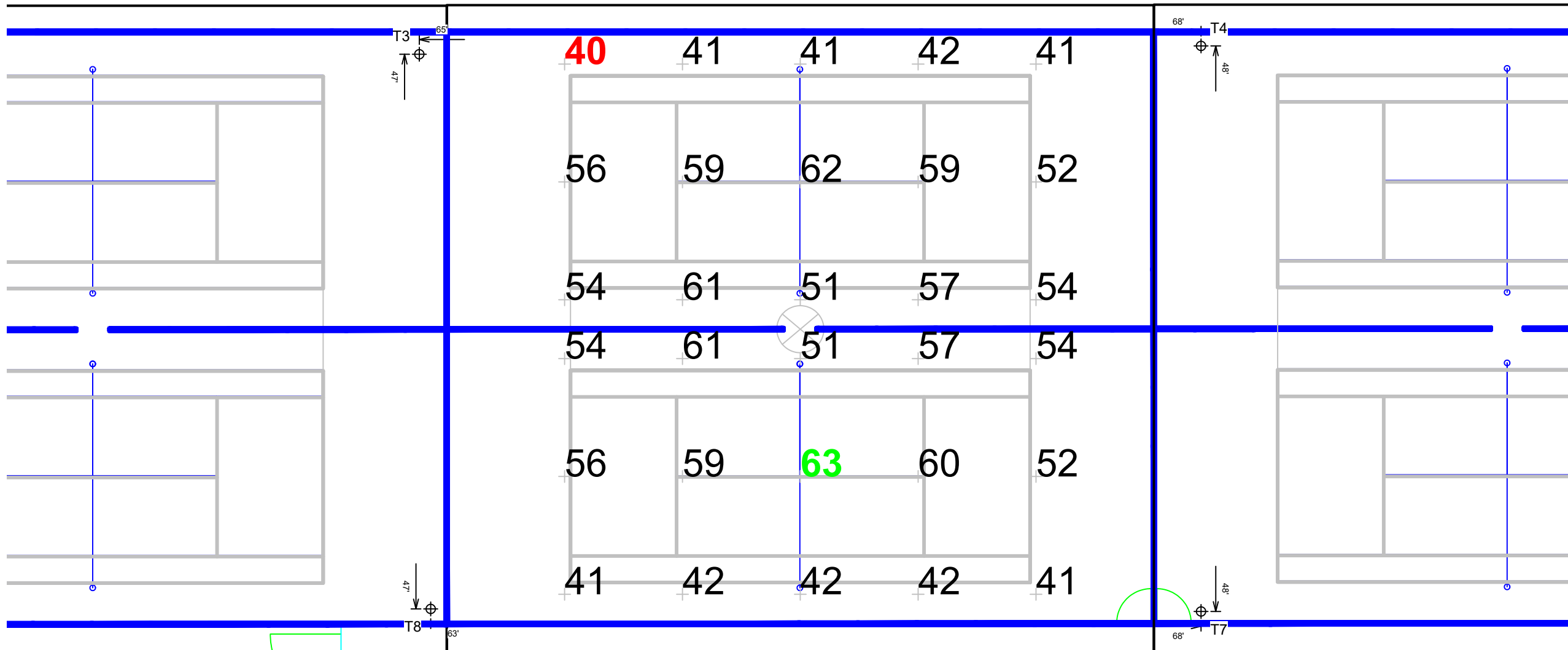
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	51.56
Maximum:	63
Minimum:	40
Avg / Min:	1.29
Guaranteed Max / Min:	2
Max / Min:	1.56
UG (adjacent pts):	0.00
CU:	0.41
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	24
Total Load:	13.92 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	T4, T7	50'	-	50'	TLC-LED-600	6	3	3
2	T5-T6	50'	-	50'	TLC-LED-600	3	3	0
4	TOTALS					18	12	6

GRID SUMMARY	
Name:	Tennis 7-8
Size:	2 Court - 14' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

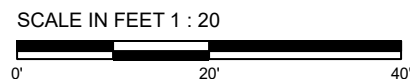
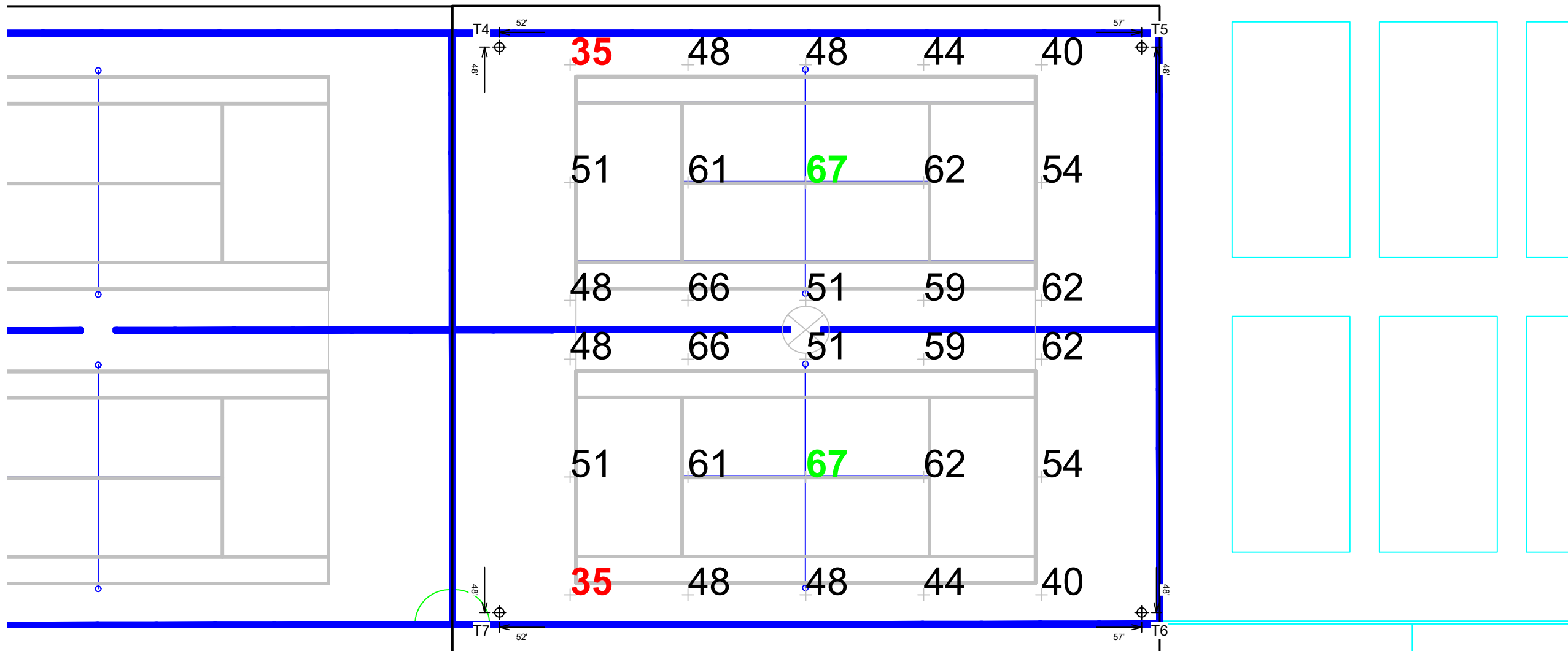
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	52.99
Maximum:	67
Minimum:	35
Avg / Min:	1.51
Guaranteed Max / Min:	2
Max / Min:	1.89
UG (adjacent pts):	0.00
CU:	0.84
No. of Points:	30
LUMINAIRE INFORMATION	
Applied Circuits:	G
No. of Luminaires:	12
Total Load:	6.96 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.

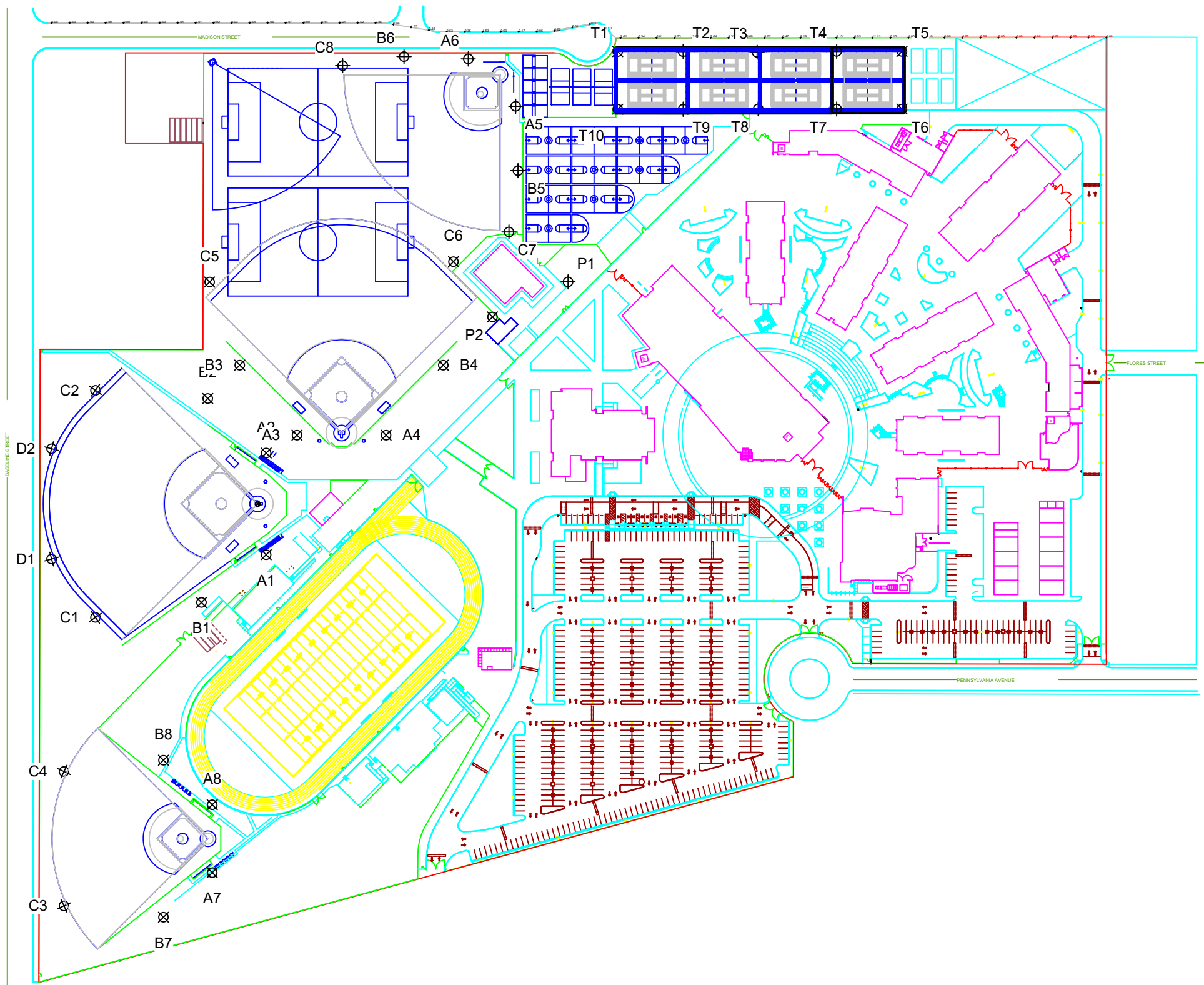


Pole location(s) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗



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

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	1.8880
Maximum:	12.25
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

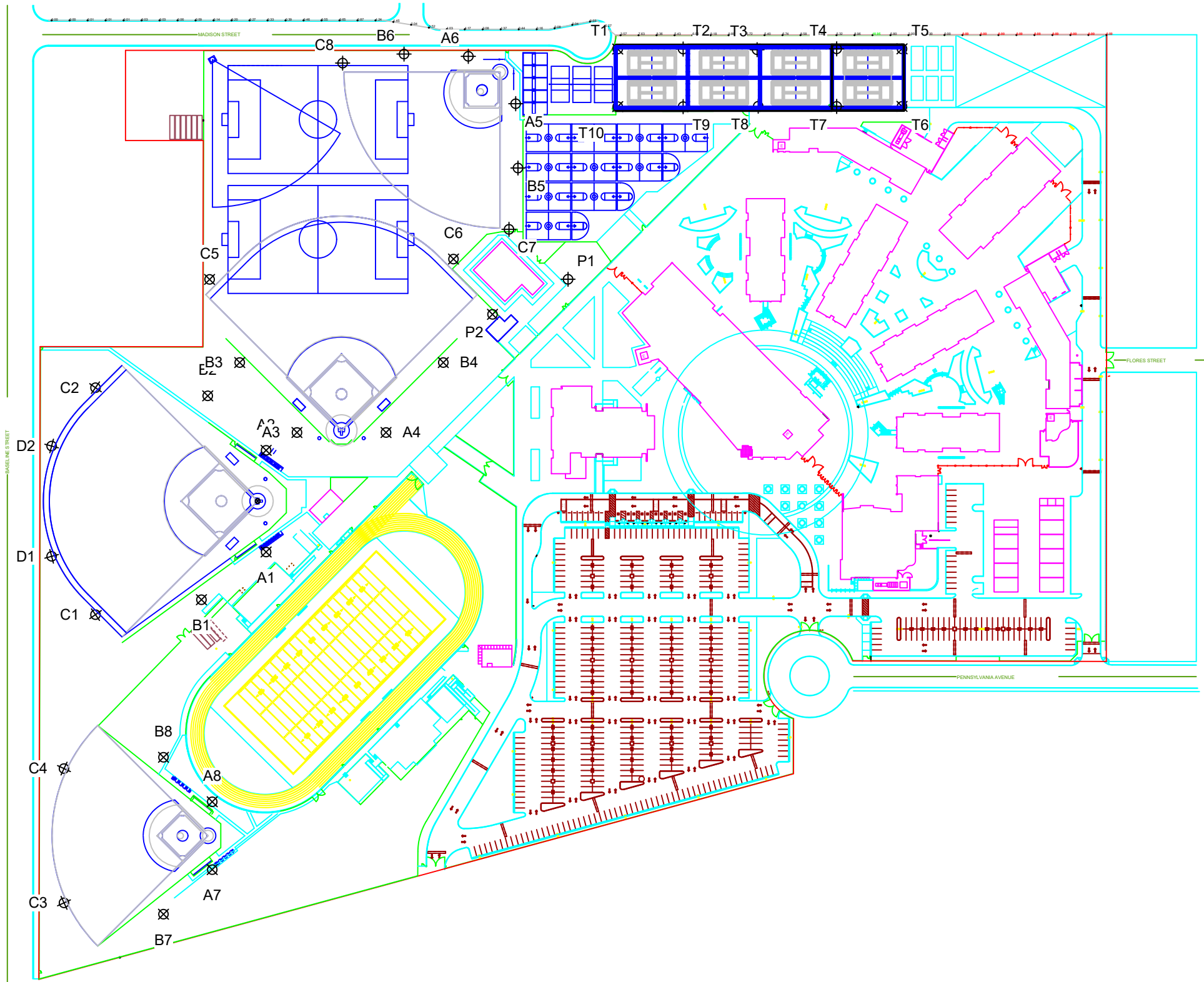


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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

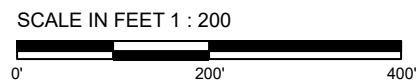
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 2.3633
Maximum:	10.95
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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.

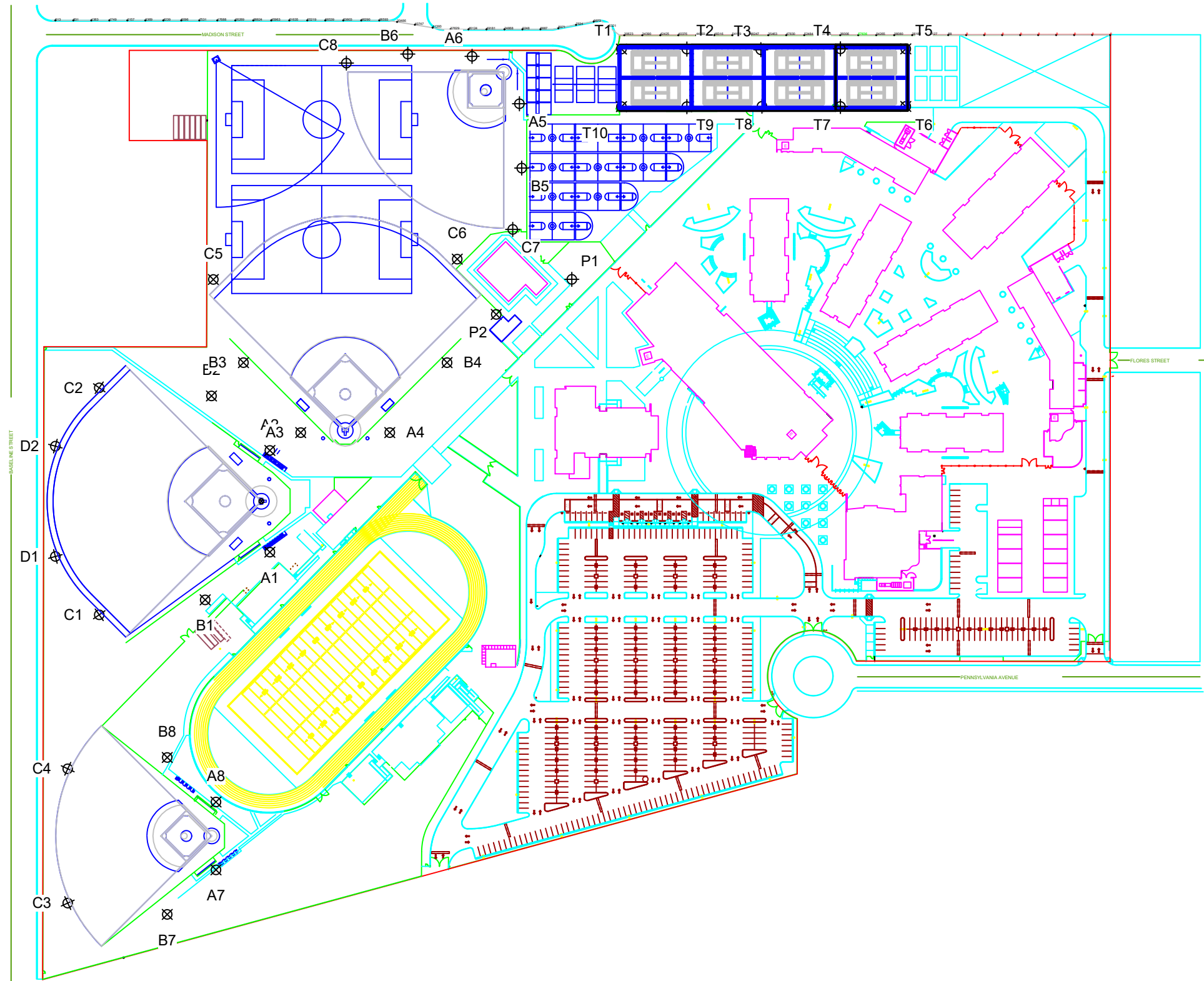


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 25133.2734
Maximum:	57636.39
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

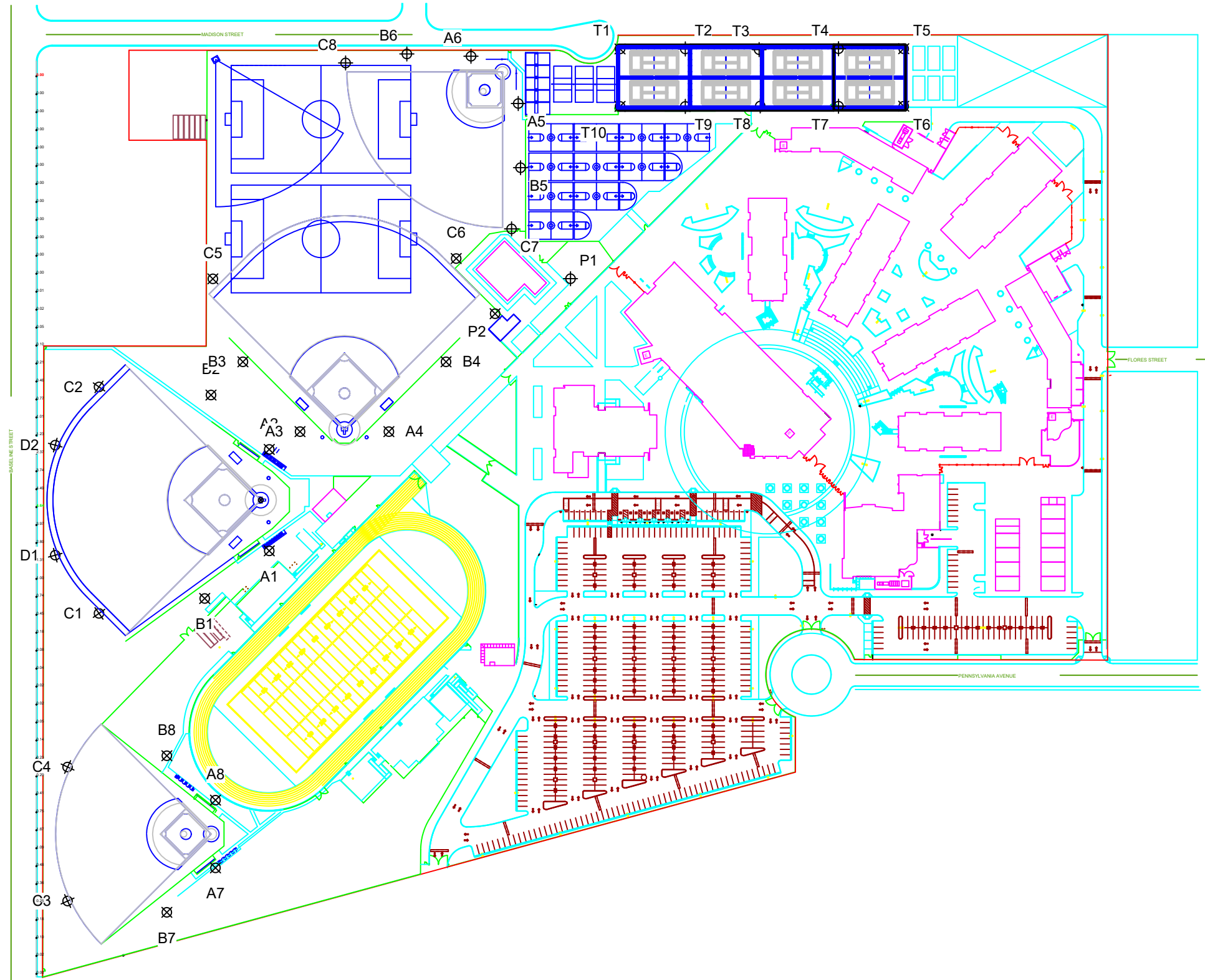


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	0.7044
Maximum:	4.64
Minimum:	0.00
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

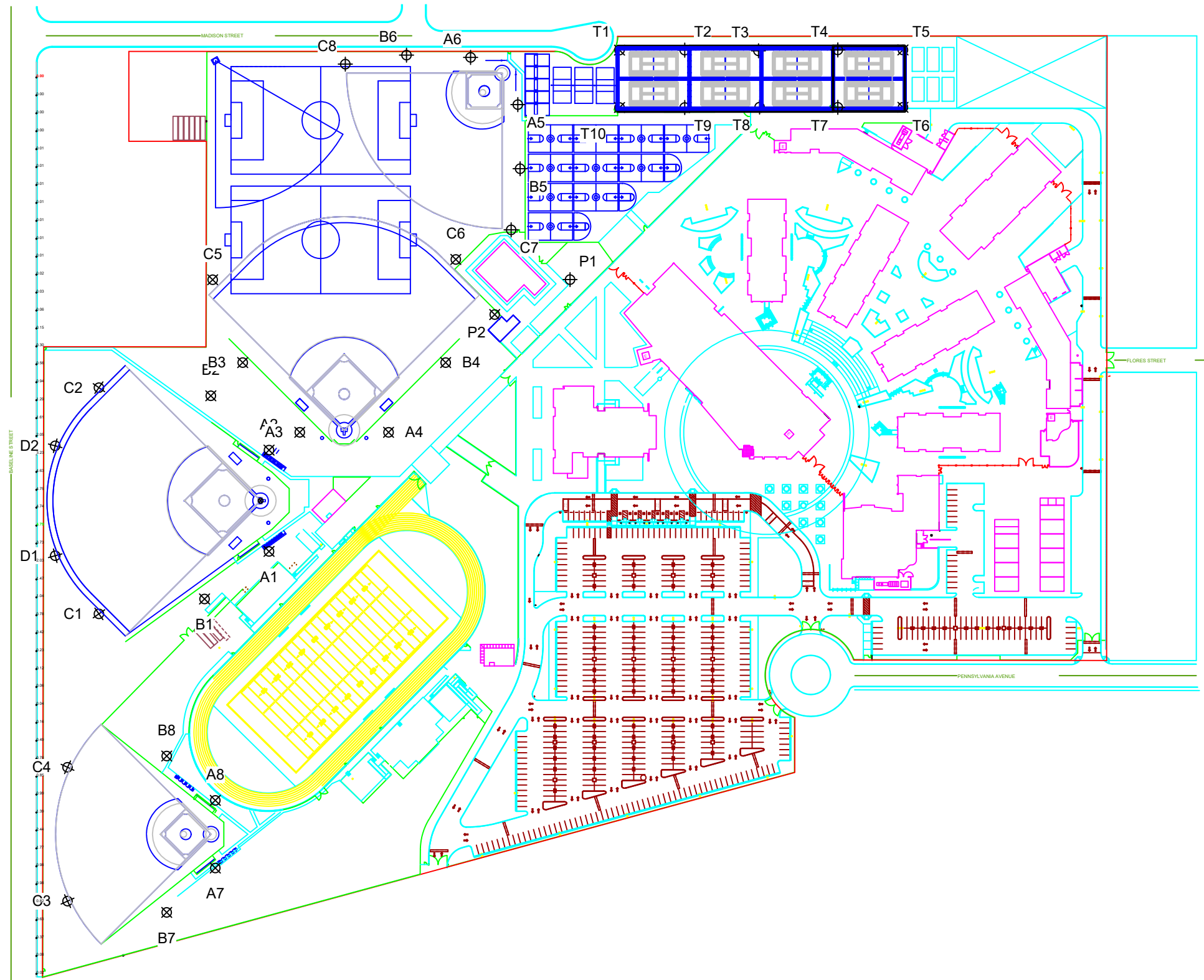


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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

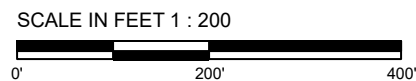
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average:	1.0177
Maximum:	4.79
Minimum:	0.00
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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.

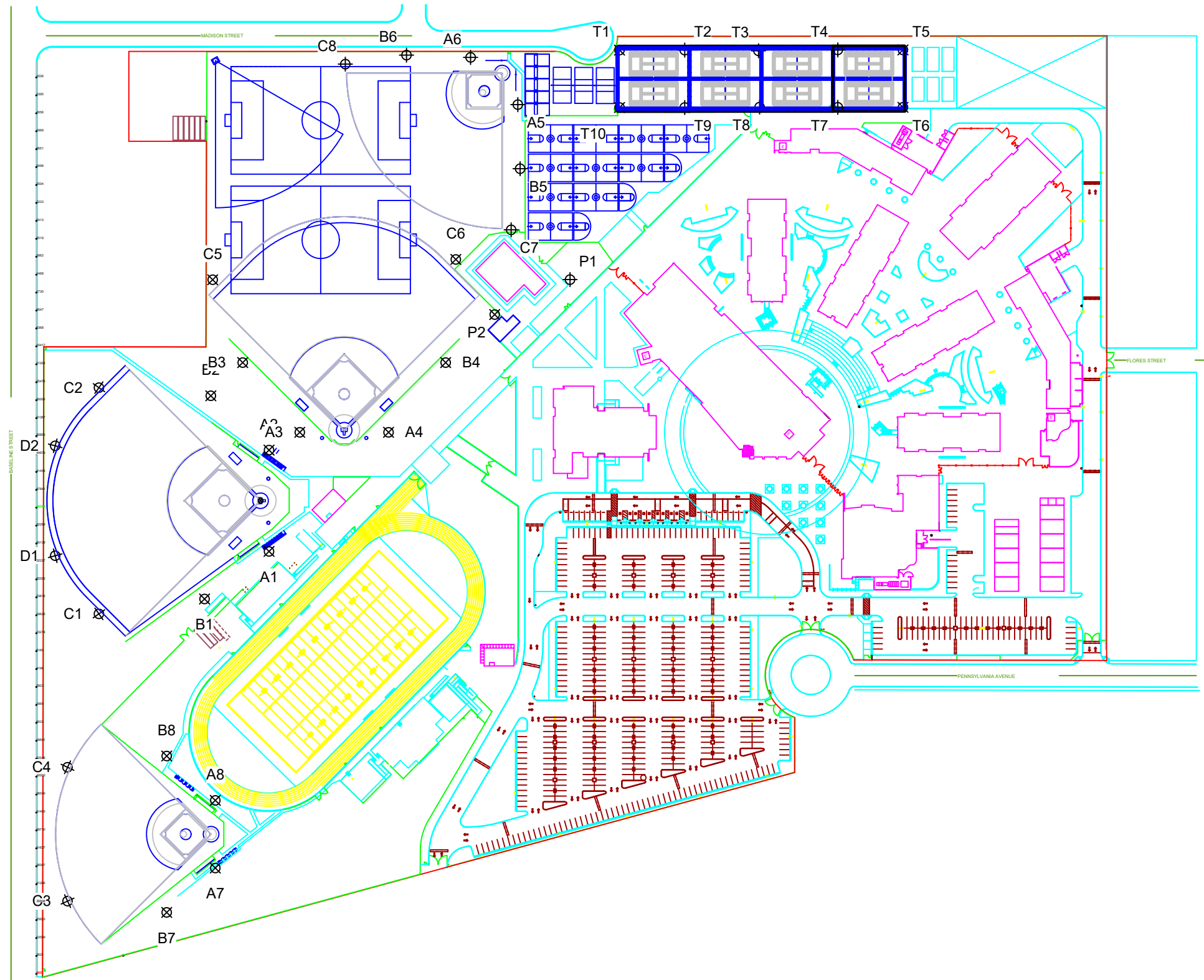


Pole location(s) \oplus dimensions are relative to 0,0 reference point(s) \otimes



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

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 19064.9629
Maximum:	48393.40
Minimum:	664.75
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

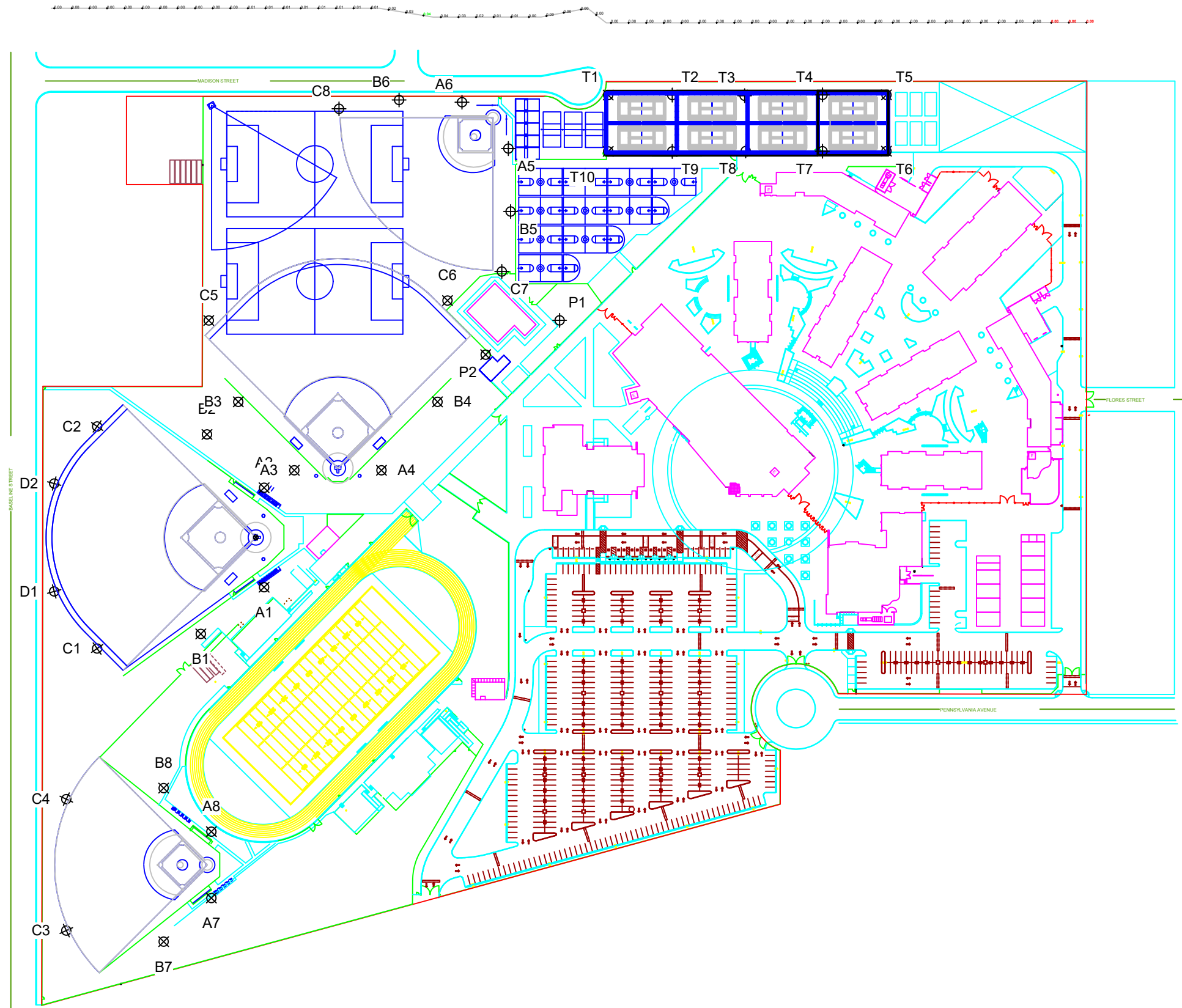


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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GRID SUMMARY	
Name:	North Spill (100' offset)
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0051
Maximum:	0.04
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

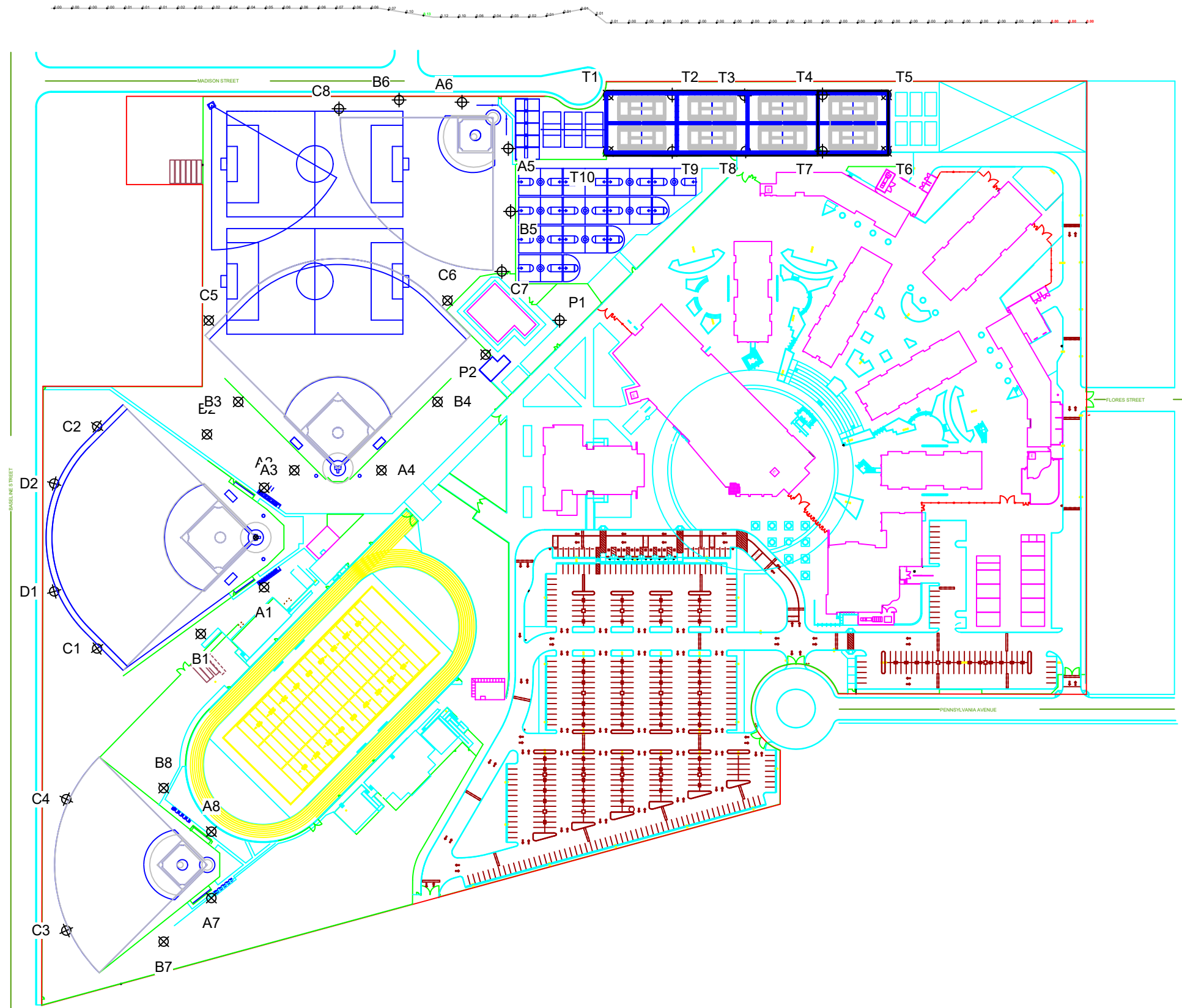


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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GRID SUMMARY	
Name:	North Spill (100' offset)
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0221
Maximum:	0.13
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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.

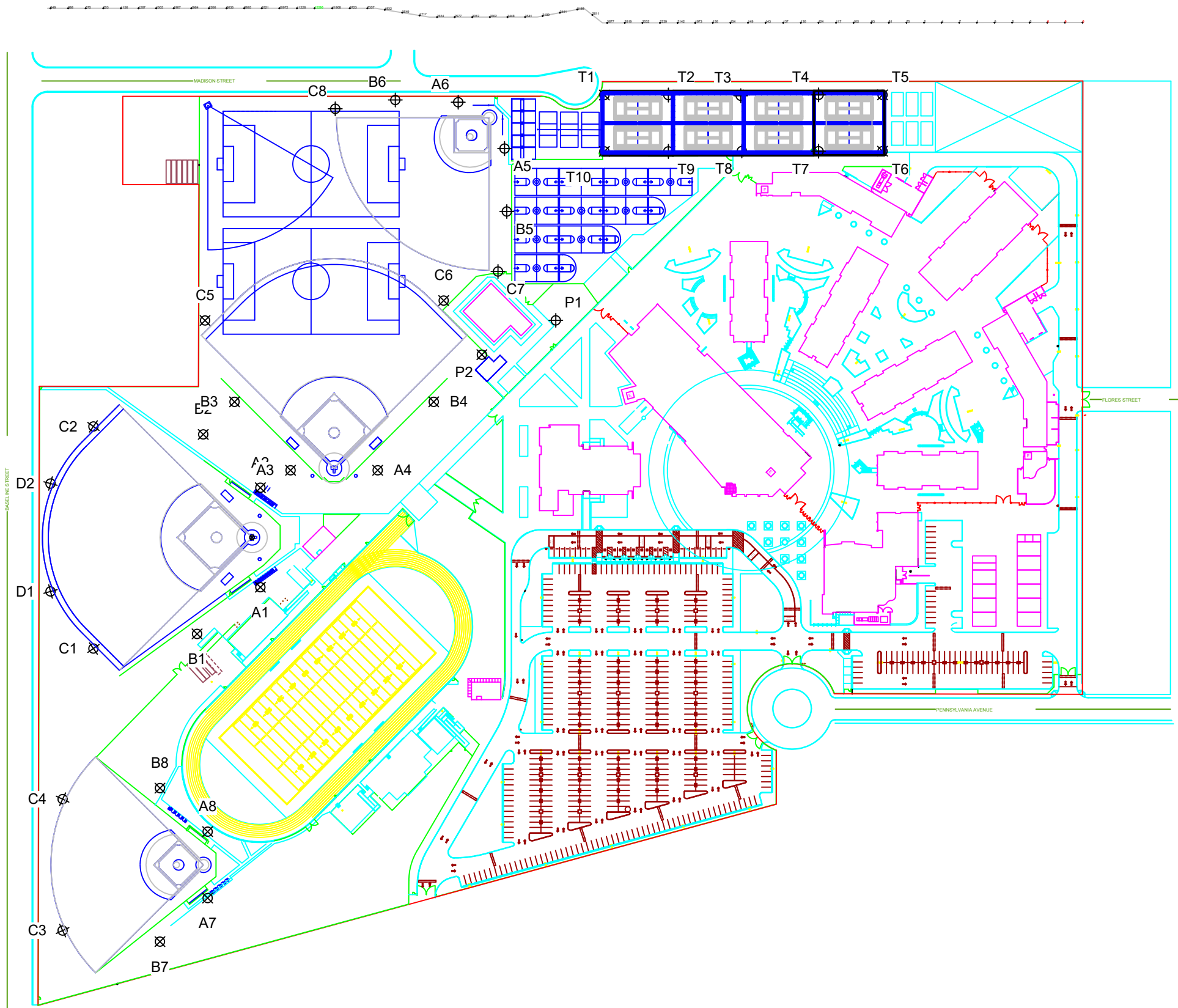


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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GRID SUMMARY	
Name:	North Spill (100' offset)
Spacing:	30.0'
Height:	3.0' above grade

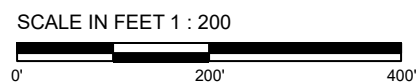
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 2607.3354
Maximum:	12279.51
Minimum:	0.00
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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.

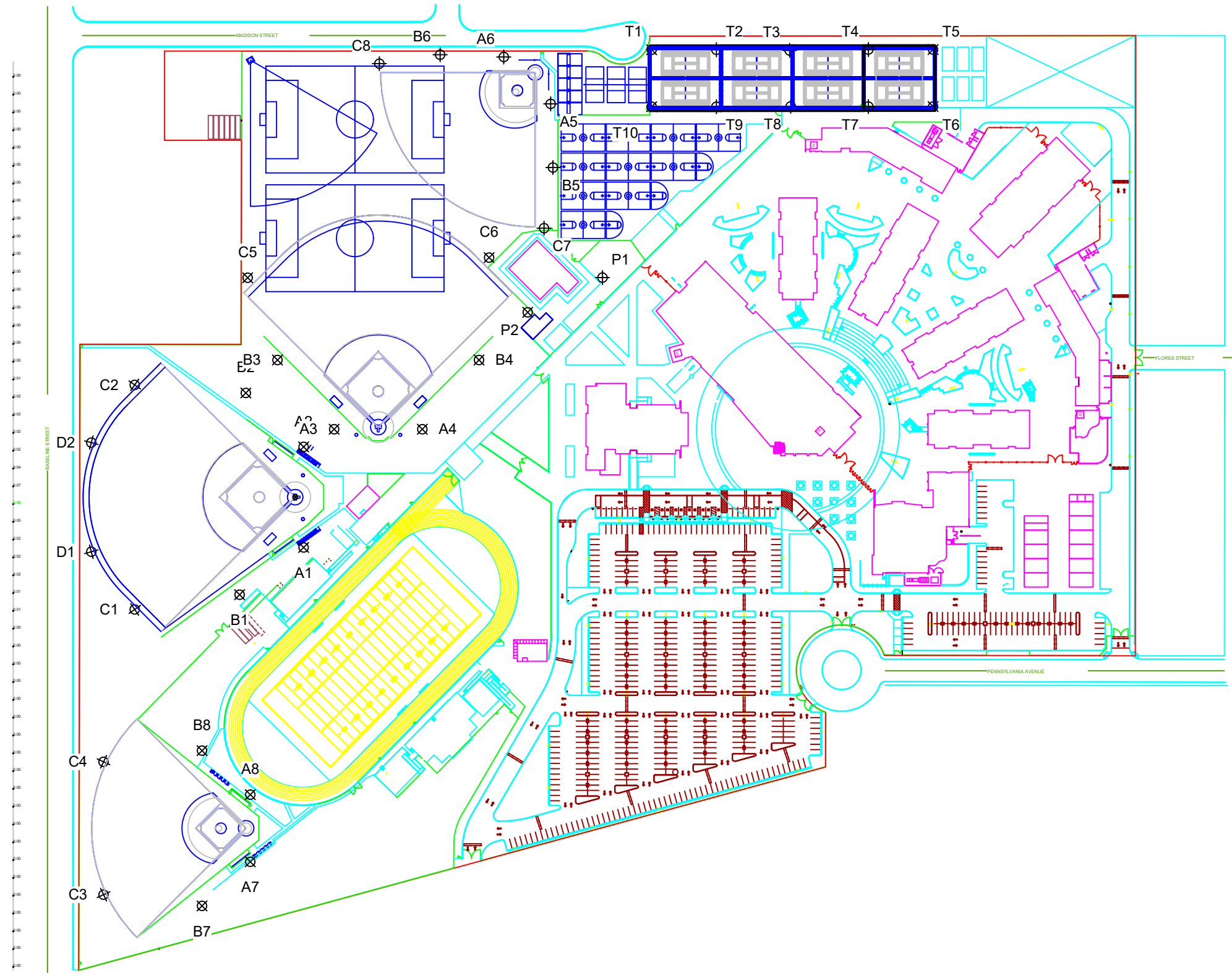


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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GRID SUMMARY	
Name:	West Spill (100' Offset)
Spacing:	30.0'
Height:	3.0' above grade

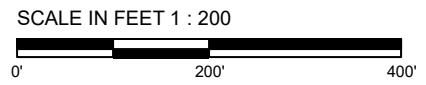
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0093
Maximum:	0.08
Minimum:	0.00
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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) ⊗



GRID SUMMARY	
Name:	West Spill (100' Offset)
Spacing:	30.0'
Height:	3.0' above grade

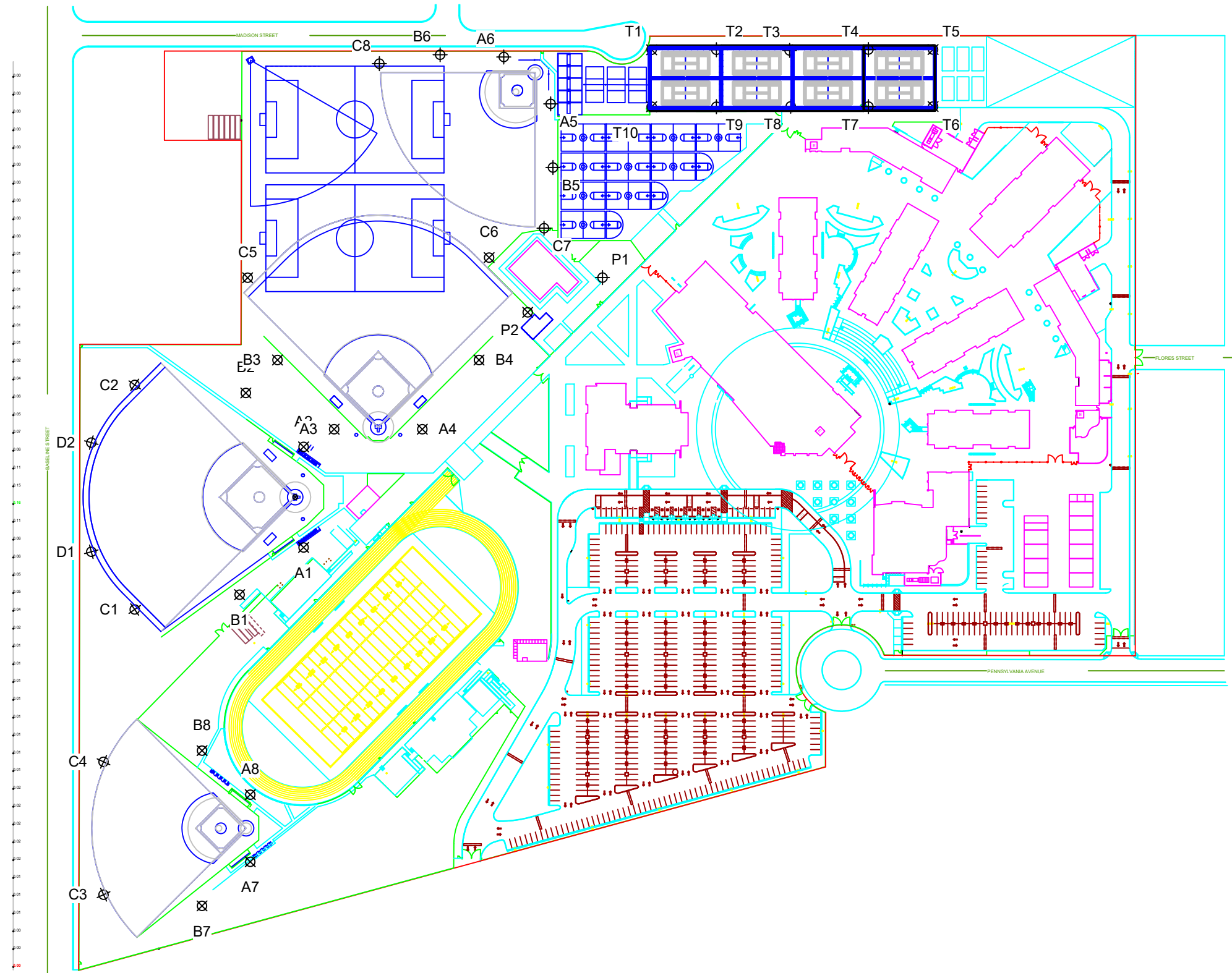
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0275
Maximum:	0.16
Minimum:	0.00
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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.



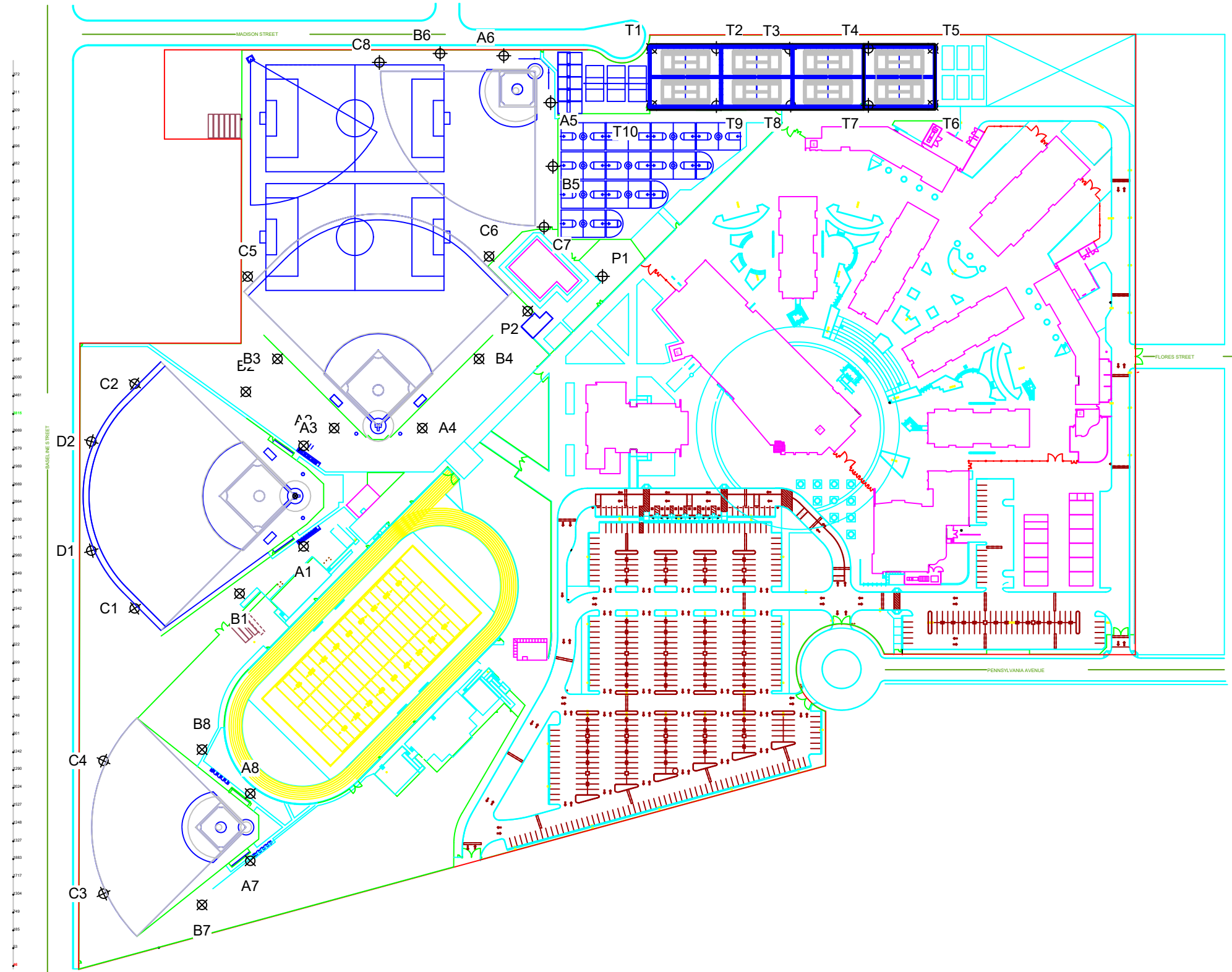
SCALE IN FEET 1 : 200
0' 200' 400'

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



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GRID SUMMARY	
Name:	West Spill (100' Offset)
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1348.3590
Maximum:	3815.39
Minimum:	45.80
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 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

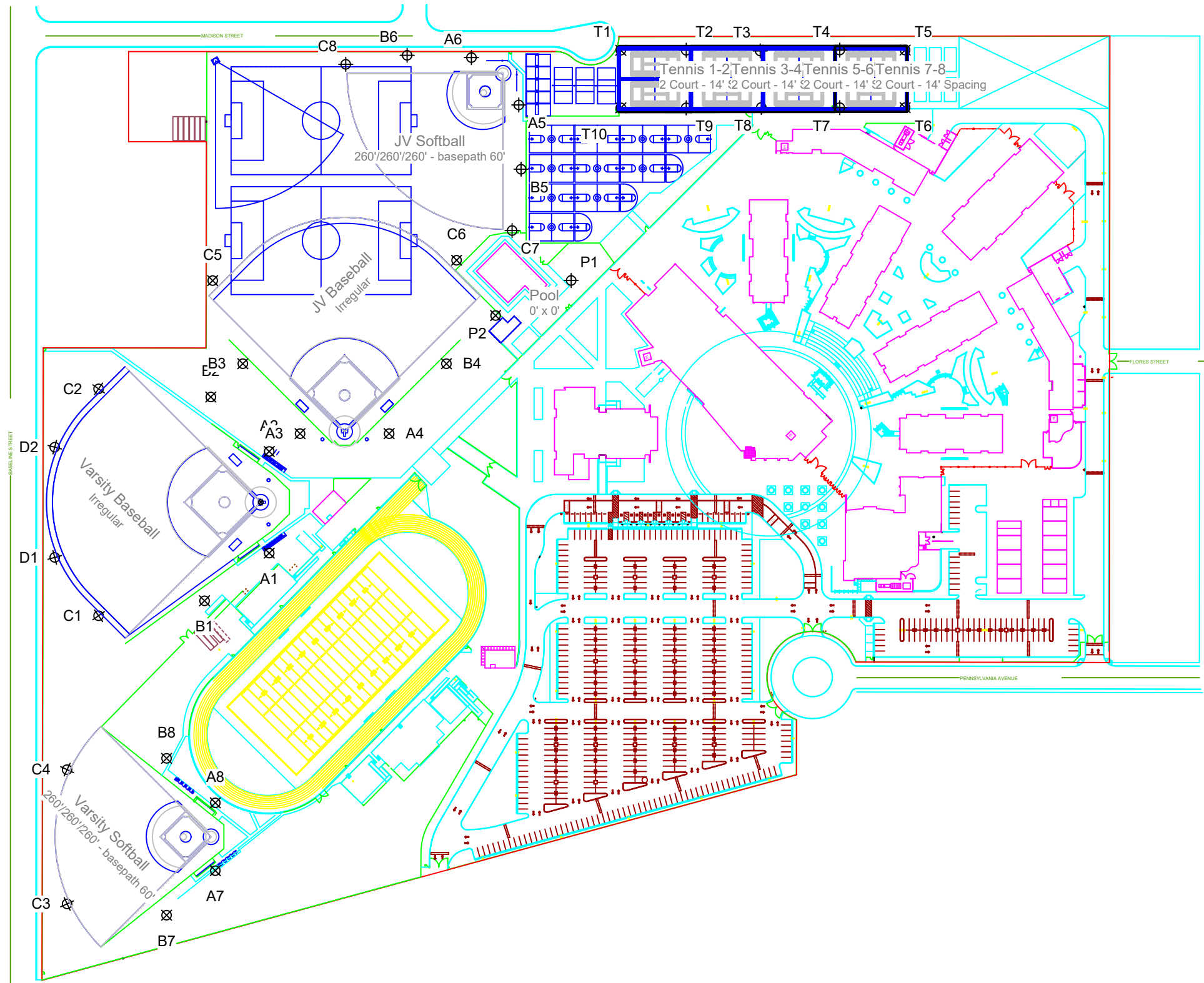


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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EQUIPMENT LAYOUT

INCLUDES:

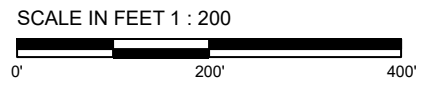
- JV Baseball
- JV Softball
- Pool
- Tennis 1-2
- Tennis 3-4
- Tennis 5-6
- Tennis 7-8
- Varsity Baseball
- Varsity Softball

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
(.90 min power factor)

Ballast Specifications	Line Amperage Per Luminaire						
	(max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0
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-LED-1200	7.0	6.6	6.1	5.2	4.2	4.0	3.0
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3



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



GRID SUMMARY

Name: Offsite Spill
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid
Scan Average: 6.87
Maximum: 70
Minimum: 0
No. of Points: 8056

LUMINAIRE INFORMATION

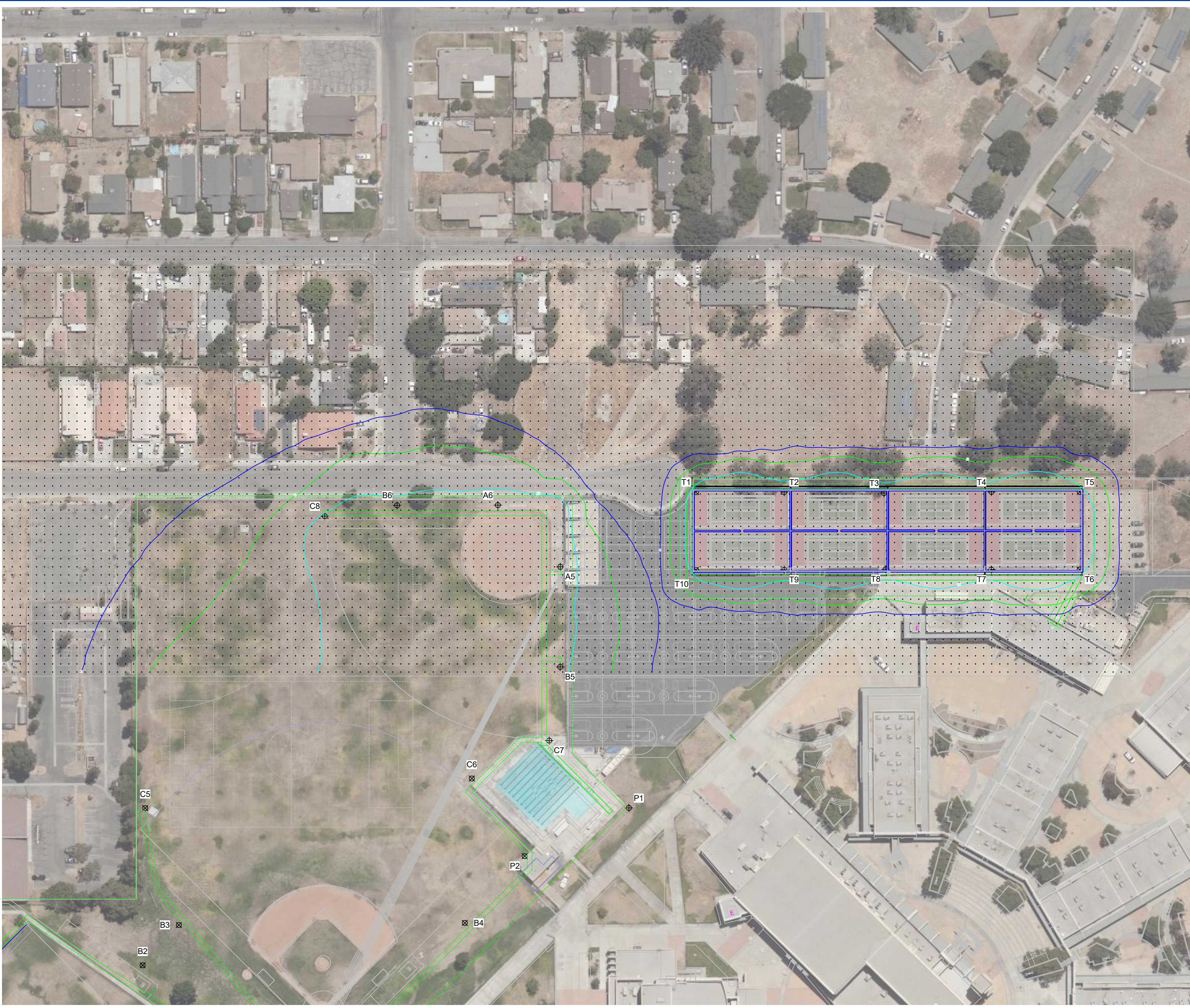
Applied Circuits: A, B, C, D, E, F, G, H, I
No. of Luminaires: 213
Total Load: 204.39 kW

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.



Contour lines indicate cutoff of horizontal light at 10 (Cyan), 0.7 (Green), and 0.1 (Blue) footcandles



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SCALE IN FEET 1 : 80
0 80 160

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

GRID SUMMARY	
Name:	Grid
Size:	2 Court - 14' Spacing
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

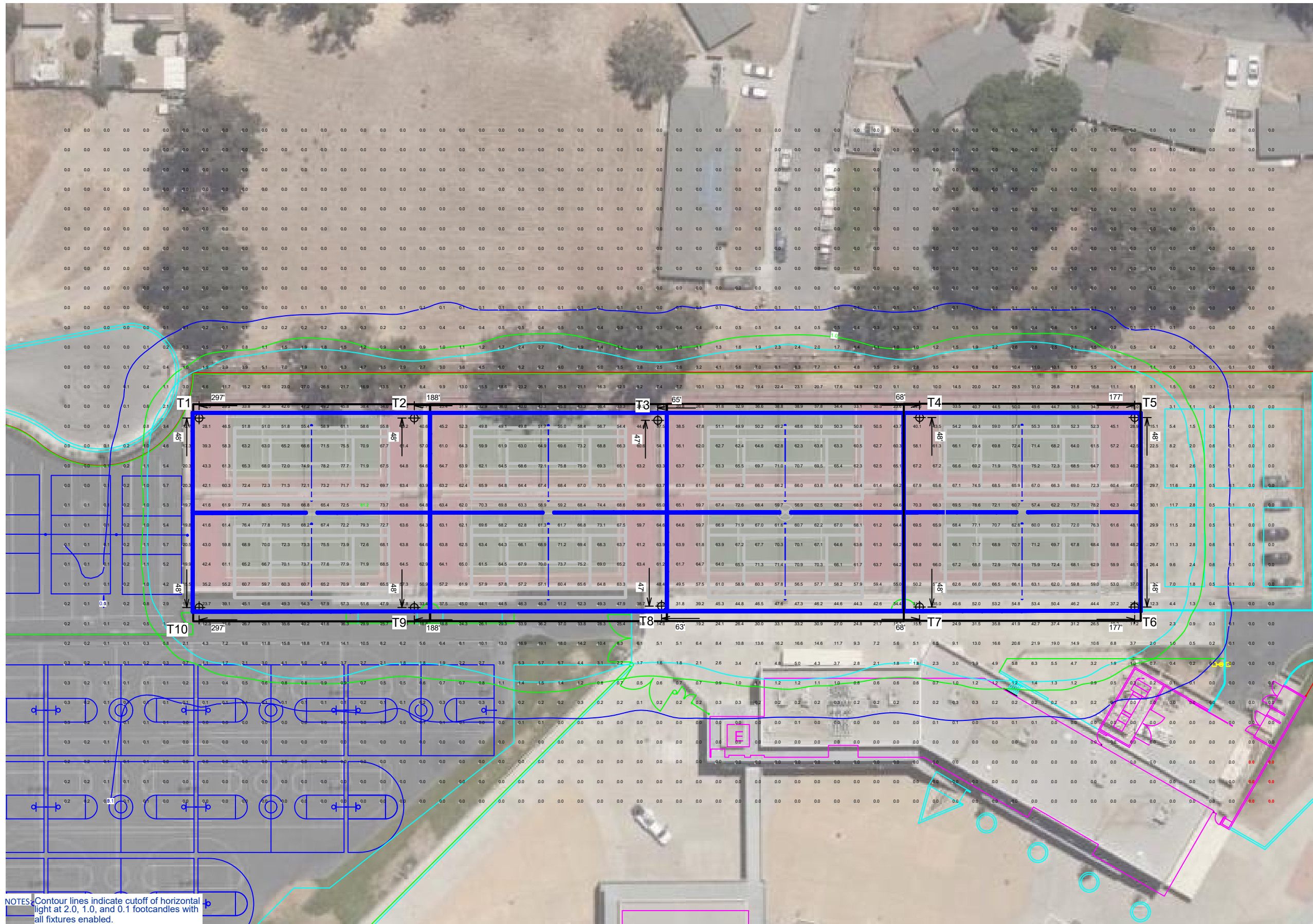
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	16.12
Maximum:	81
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	587.87
CU:	0.14
No. of Points:	2170
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H, I
No. of Luminaires:	213
Total Load:	204.39 kW

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

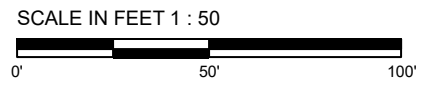
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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: Contour lines indicate cutoff of horizontal light at 2.0, 1.0, and 0.1 footcandles with all fixtures enabled.



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



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