

Appendix C Musco Lighting Plans

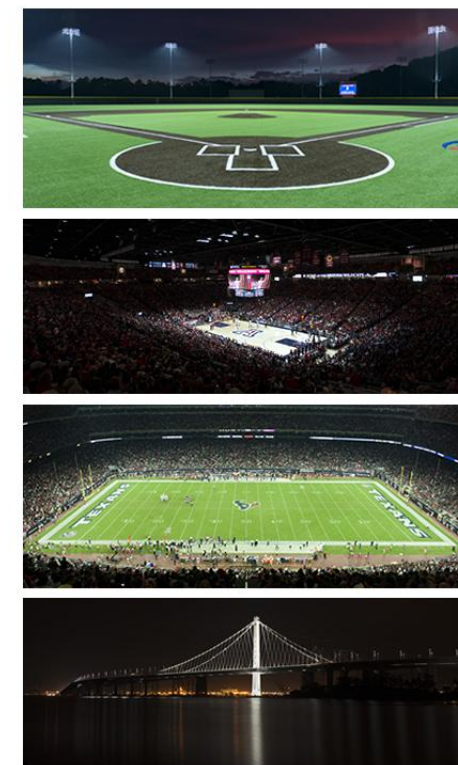
Appendices

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Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A6	60'	60'	3	TLC-LED-900	2.64 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
A7-A12	60'	60'	3	TLC-LED-1200	3.51 kW	B
		16'	1	TLC-BT-575	0.57 kW	B
A13-A18	60'	60'	3	TLC-LED-900	2.64 kW	C
		16'	1	TLC-BT-575	0.57 kW	C
A19-A24	60'	60'	3	TLC-LED-900	2.64 kW	D
		16'	1	TLC-BT-575	0.57 kW	D
A25-A30	60'	60'	3	TLC-LED-1200	3.51 kW	E
		16'	1	TLC-BT-575	0.57 kW	E
A31-A36	60'	60'	3	TLC-LED-900	2.64 kW	F
		16'	1	TLC-BT-575	0.57 kW	F
A37-A42	60'	60'	3	TLC-LED-900	2.64 kW	G
		16'	1	TLC-BT-575	0.57 kW	G
A43-A48	60'	60'	3	TLC-LED-900	2.64 kW	H
		16'	1	TLC-BT-575	0.57 kW	H
A49-A50	60'	60'	1	TLC-LED-1200	1.17 kW	I
		60'	2	TLC-LED-900	1.76 kW	I
		16'	1	TLC-BT-575	0.57 kW	I
B1-B2	80'	80'	8	TLC-LED-1200	9.36 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
B3-B4	80'	80'	3	TLC-LED-1200	3.51 kW	B
		80'	6	TLC-LED-1500	8.46 kW	B
		16'	2	TLC-BT-575	1.15 kW	B
B5-B6	80'	80'	8	TLC-LED-1200	9.36 kW	C
		16'	1	TLC-BT-575	0.57 kW	C
B7-B8	80'	80'	8	TLC-LED-1200	9.36 kW	D
		16'	1	TLC-BT-575	0.57 kW	D
B9-B10	80'	80'	6	TLC-LED-1500	8.46 kW	E
		80'	3	TLC-LED-1200	3.51 kW	E
		16'	2	TLC-BT-575	1.15 kW	E
B11-B12	80'	80'	8	TLC-LED-1200	9.36 kW	F
		16'	1	TLC-BT-575	0.57 kW	F
B13-B14	80'	80'	8	TLC-LED-1200	9.36 kW	G
		16'	1	TLC-BT-575	0.57 kW	G
B15-B16	80'	80'	8	TLC-LED-1200	9.36 kW	H
		16'	1	TLC-BT-575	0.57 kW	H
B17-B18	80'	80'	6	TLC-LED-1200	7.02 kW	I
		16'	2	TLC-BT-575	1.15 kW	I
C1-C2	80'	80'	5	TLC-LED-1200	5.85 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
C3-C4	80'	80'	6	TLC-LED-1500	8.46 kW	B
		16'	3	TLC-BT-575	1.72 kW	B
C5-C6	80'	80'	5	TLC-LED-1200	5.85 kW	C
		16'	2	TLC-BT-575	1.15 kW	C
C7-C8	80'	80'	5	TLC-LED-1200	5.85 kW	D
		16'	2	TLC-BT-575	1.15 kW	D
C9-C10	80'	80'	6	TLC-LED-1500	8.46 kW	E
		16'	3	TLC-BT-575	1.72 kW	E
C11-C12	80'	80'	5	TLC-LED-1200	5.85 kW	F
		16'	2	TLC-BT-575	1.15 kW	F
C13-C14	80'	80'	5	TLC-LED-1200	5.85 kW	G
		16'	2	TLC-BT-575	1.15 kW	G
C15-C16	80'	80'	5	TLC-LED-1200	5.85 kW	H
		16'	2	TLC-BT-575	1.15 kW	H
84			488		484.55 kW	

From Hometown to Professional



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Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Baseball 1	53.16 kW	56
B	Baseball 2	71.12 kW	64
C	Baseball 3	53.16 kW	56
D	Baseball 4	53.16 kW	56
E	Baseball 5	71.12 kW	64
F	Baseball 6	53.16 kW	56
G	Baseball 7	53.16 kW	56
H	Baseball 8	53.16 kW	56
I	Baseball 9	23.35 kW	24

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	110
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	218
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	48
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	112

Single Luminaire Amperage Draw Chart							
Driver 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							
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3



Light Level Summary

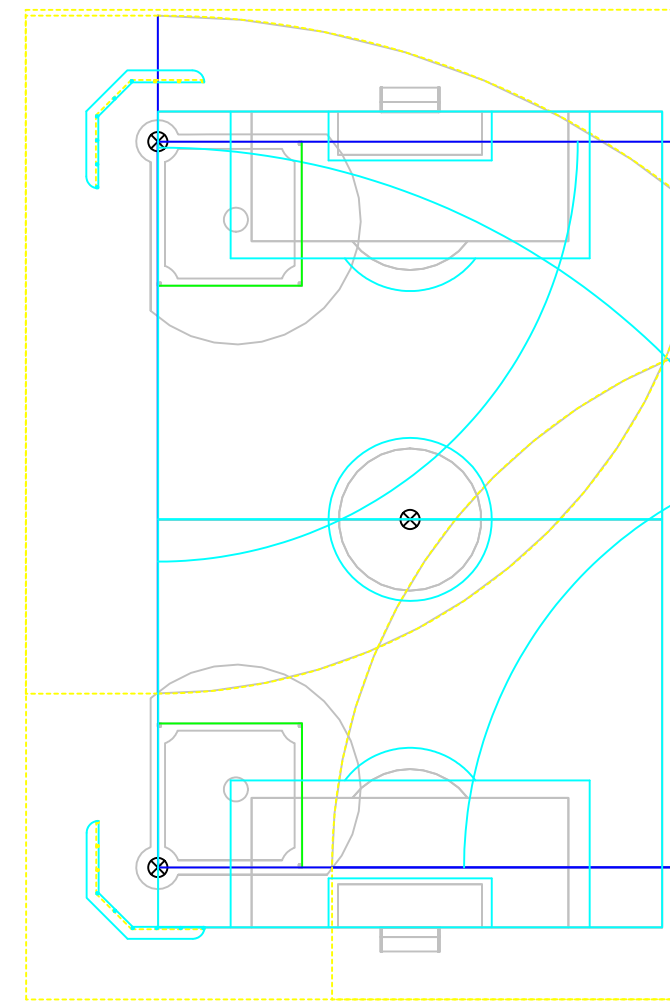
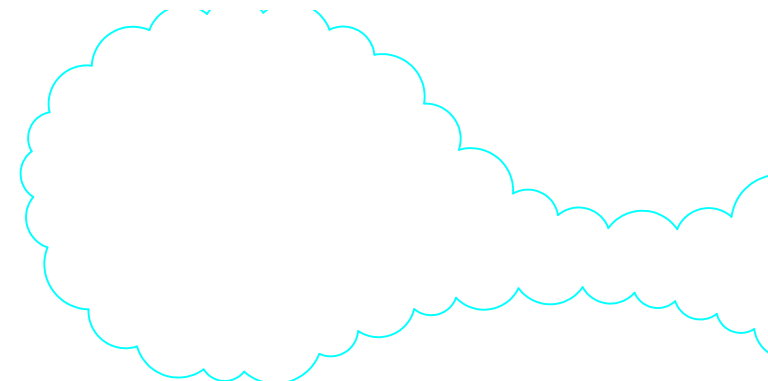
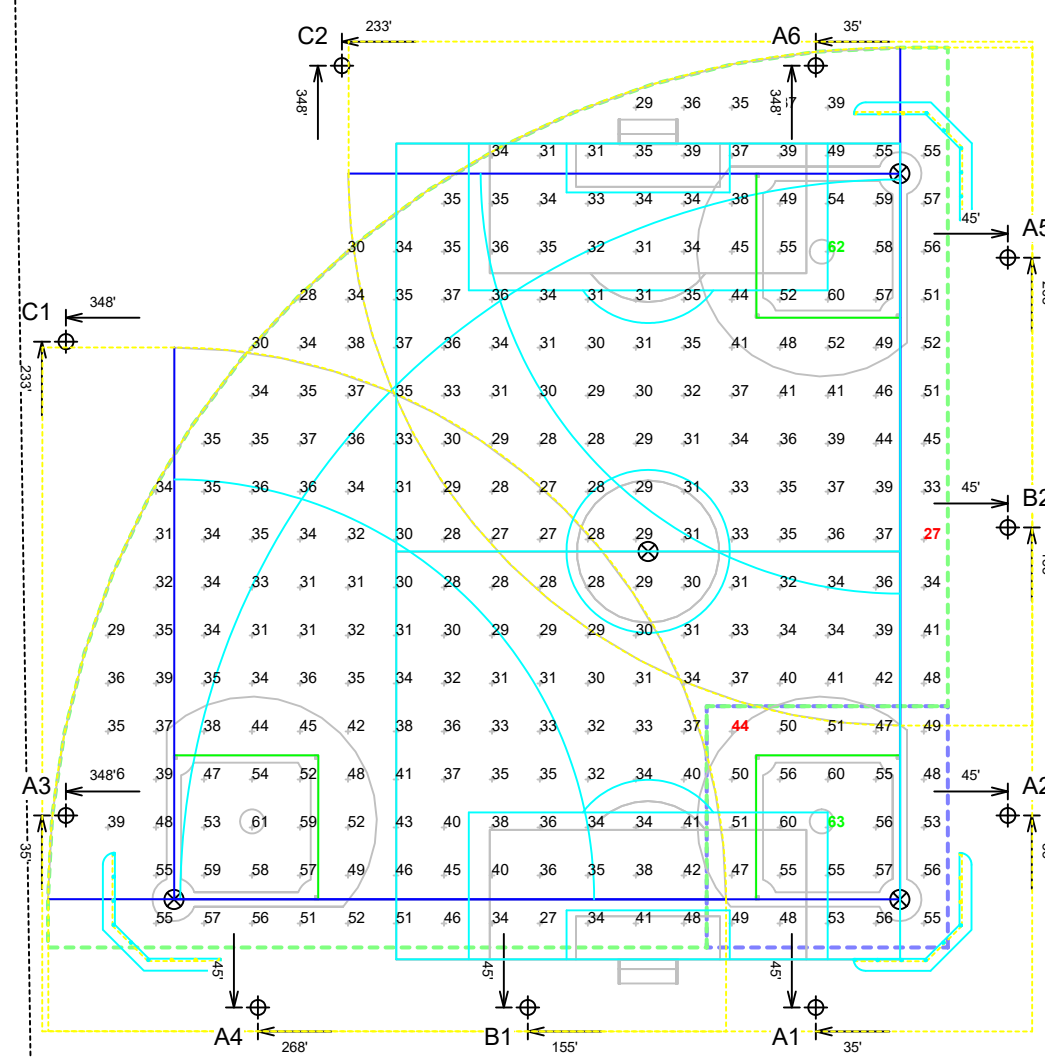
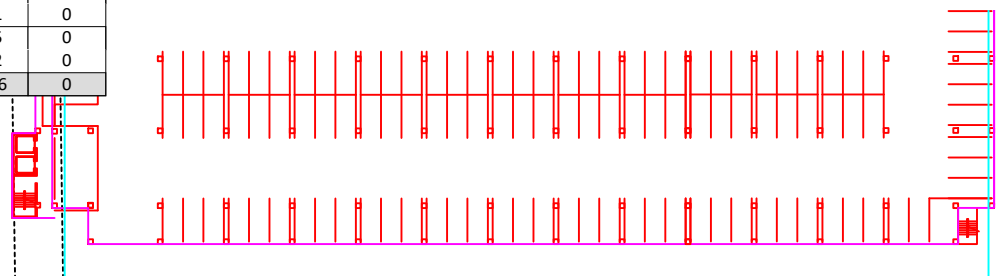
Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Baseball 1 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	A	56
Baseball 1 (Outfield)	Horizontal Illuminance	37.63	27	62	2.27	1.38	A	56
Baseball 1 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	A	56
Baseball 1 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	A	56
Baseball 1 - LL2 (Infield)	Horizontal Illuminance	50.85	37	61	1.64	1.36	A	56
Baseball 1 - LL2 (Outfield)	Horizontal Illuminance	33.79	27	52	1.90	1.24	A	56
Baseball 1 - Soccer	Horizontal Illuminance	37.98	27	61	2.24	1.39	A	56
Baseball 2 (Infield)	Horizontal Illuminance	71.69	59	85	1.43	1.21	B	64
Baseball 2 (Outfield)	Horizontal Illuminance	54.83	40	84	2.10	1.37	B	64
Baseball 2 - LL1 (Infield)	Horizontal Illuminance	70.37	55	84	1.52	1.27	B	64
Baseball 2 - LL1 (Outfield)	Horizontal Illuminance	50.63	41	73	1.80	1.25	B	64
Baseball 2 - LL2 (Infield)	Horizontal Illuminance	70.28	54	85	1.56	1.29	B	64
Baseball 2 - LL2 (Outfield)	Horizontal Illuminance	50.51	40	73	1.82	1.26	B	64
Baseball 2 - Soccer	Horizontal Illuminance	55.41	43	84	1.95	1.29	B	64
Baseball 3 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	C	56
Baseball 3 (Outfield)	Horizontal Illuminance	37.65	27	62	2.27	1.38	C	56
Baseball 3 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	C	56
Baseball 3 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	C	56
Baseball 3 - LL2 (Infield)	Horizontal Illuminance	50.86	37	61	1.65	1.37	C	56
Baseball 3 - LL2 (Outfield)	Horizontal Illuminance	33.84	27	52	1.90	1.25	C	56
Baseball 3 - Soccer	Horizontal Illuminance	38.00	27	61	2.23	1.39	C	56
Baseball 4 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	D	56
Baseball 4 (Outfield)	Horizontal Illuminance	37.63	27	62	2.27	1.38	D	56
Baseball 4 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	D	56
Baseball 4 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	D	56
Baseball 4 - LL2 (Infield)	Horizontal Illuminance	50.85	37	61	1.64	1.36	D	56
Baseball 4 - LL2 (Outfield)	Horizontal Illuminance	33.79	27	52	1.90	1.24	D	56
Baseball 4 - Soccer	Horizontal Illuminance	37.96	27	61	2.23	1.39	D	56
Baseball 5 (Infield)	Horizontal Illuminance	71.69	59	85	1.43	1.21	E	64
Baseball 5 (Outfield)	Horizontal Illuminance	54.94	40	85	2.12	1.38	E	64
Baseball 5 - LL 1 (Infield)	Horizontal Illuminance	70.40	55	85	1.56	1.28	E	64
Baseball 5 - LL 1 (Outfield)	Horizontal Illuminance	50.67	40	73	1.80	1.26	E	64
Baseball 5 - LL 2 (Infield)	Horizontal Illuminance	70.54	55	86	1.55	1.28	E	64
Baseball 5 - LL 2 (Outfield)	Horizontal Illuminance	50.46	40	73	1.80	1.25	E	64
Baseball 5 - Soccer	Horizontal Illuminance	55.34	43	84	1.96	1.30	E	64
Baseball 6 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	F	56
Baseball 6 (Outfield)	Horizontal Illuminance	37.63	27	62	2.27	1.38	F	56
Baseball 6 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	F	56
Baseball 6 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	F	56
Baseball 6 - LL2 (Infield)	Horizontal Illuminance	50.86	37	61	1.65	1.37	F	56
Baseball 6 - LL2 (Outfield)	Horizontal Illuminance	33.79	27	52	1.90	1.24	F	56
Baseball 6 - Soccer	Horizontal Illuminance	37.99	27	61	2.23	1.39	F	56
Baseball 7 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	G	56
Baseball 7 (Outfield)	Horizontal Illuminance	37.63	27	62	2.27	1.38	G	56
Baseball 7 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	G	56
Baseball 7 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	G	56
Baseball 7 - LL2 (Infield)	Horizontal Illuminance	50.85	37	61	1.64	1.36	G	56
Baseball 7 - LL2 (Outfield)	Horizontal Illuminance	33.79	27	52	1.90	1.24	G	56
Baseball 7 - Soccer	Horizontal Illuminance	37.99	27	61	2.23	1.39	G	56
Baseball 8 (Infield)	Horizontal Illuminance	52.99	44	63	1.43	1.20	H	56
Baseball 8 (Outfield)	Horizontal Illuminance	37.63	27	62	2.27	1.38	H	56
Baseball 8 - LL1 (Infield)	Horizontal Illuminance	50.58	37	60	1.64	1.37	H	56
Baseball 8 - LL1 (Outfield)	Horizontal Illuminance	34.06	27	52	1.89	1.25	H	56
Baseball 8 - LL2 (Infield)	Horizontal Illuminance	50.85	37	61	1.64	1.36	H	56
Baseball 8 - LL2 (Outfield)	Horizontal Illuminance	33.79	27	52	1.90	1.24	H	56
Baseball 8 - Soccer	Horizontal Illuminance	37.97	27	61	2.24	1.39	H	56
Baseball 9 (Infield)	Horizontal Illuminance	51.42	41	63	1.55	1.26	I	24
Baseball 9 (Outfield)	Horizontal Illuminance	32.48	22	42	1.96	1.51	I	24



Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A1-A6	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 1
Size	355'/355'/355' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

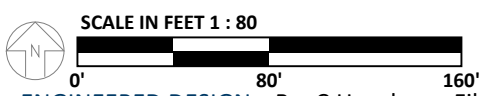
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	52.99	37.63
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	56	
Total Load	53.16 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A1-A6	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 1 - LL1**
 Size 230'/230'/230' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

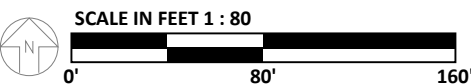
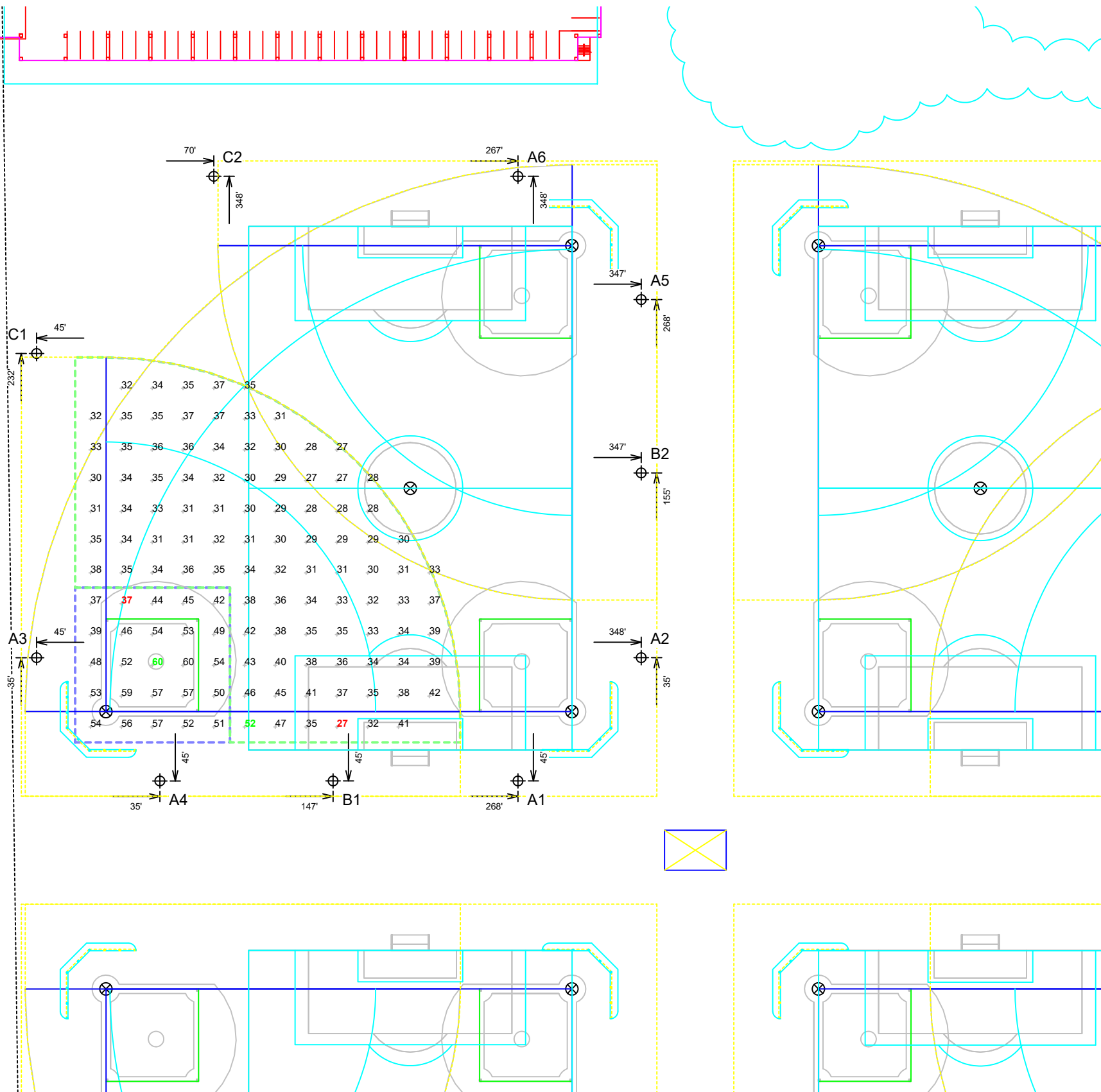
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	56	
Total Load	53.16 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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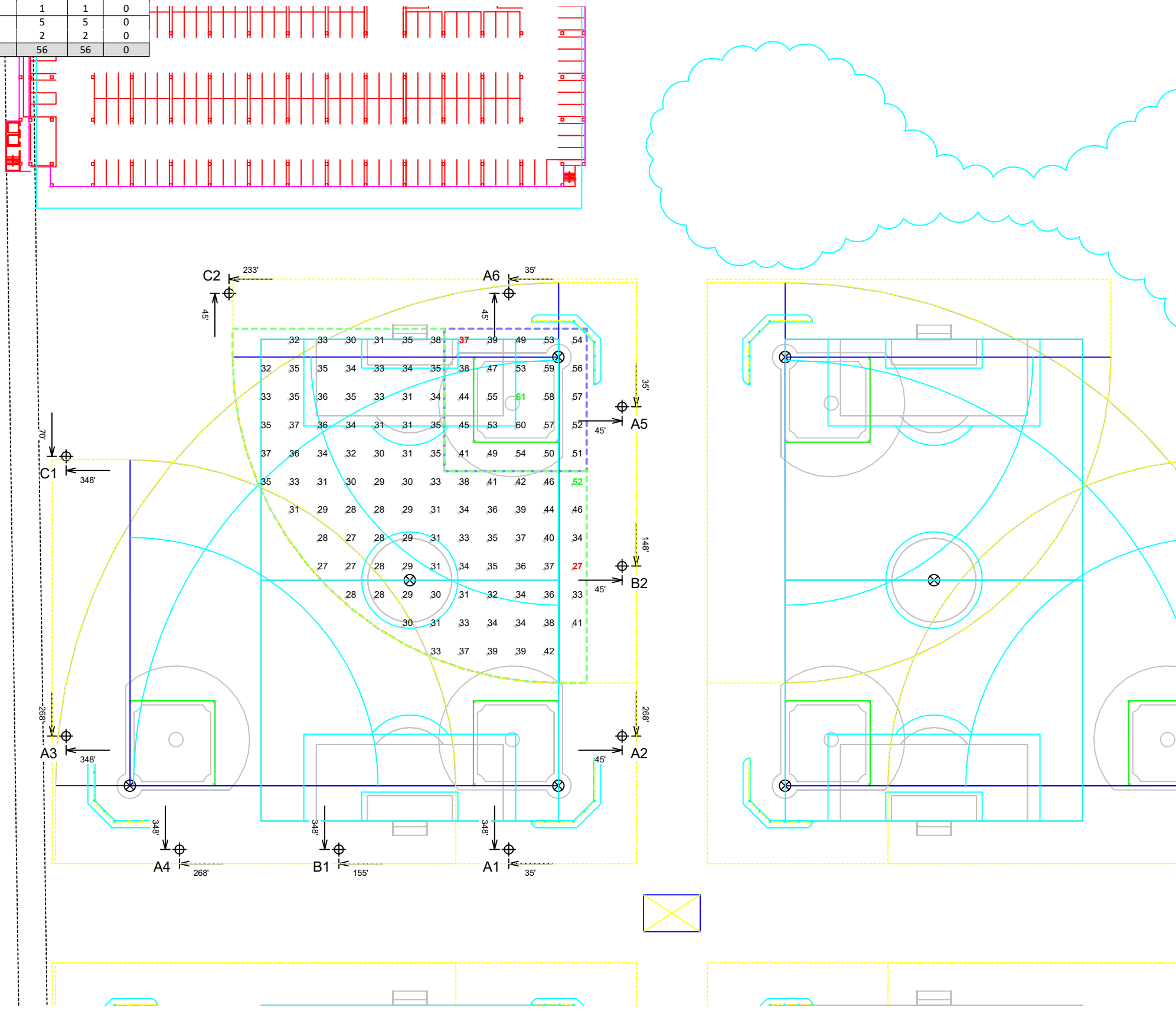
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A1-A6	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 1 - LL2
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

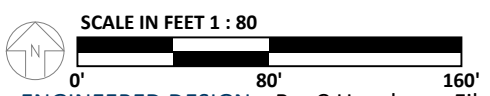
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.85	33.79
Maximum	61	52
Minimum	37	27
Avg/Min	1.36	1.24
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.90
UG (adjacent pts)	1.26	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	56	
Total Load	53.16 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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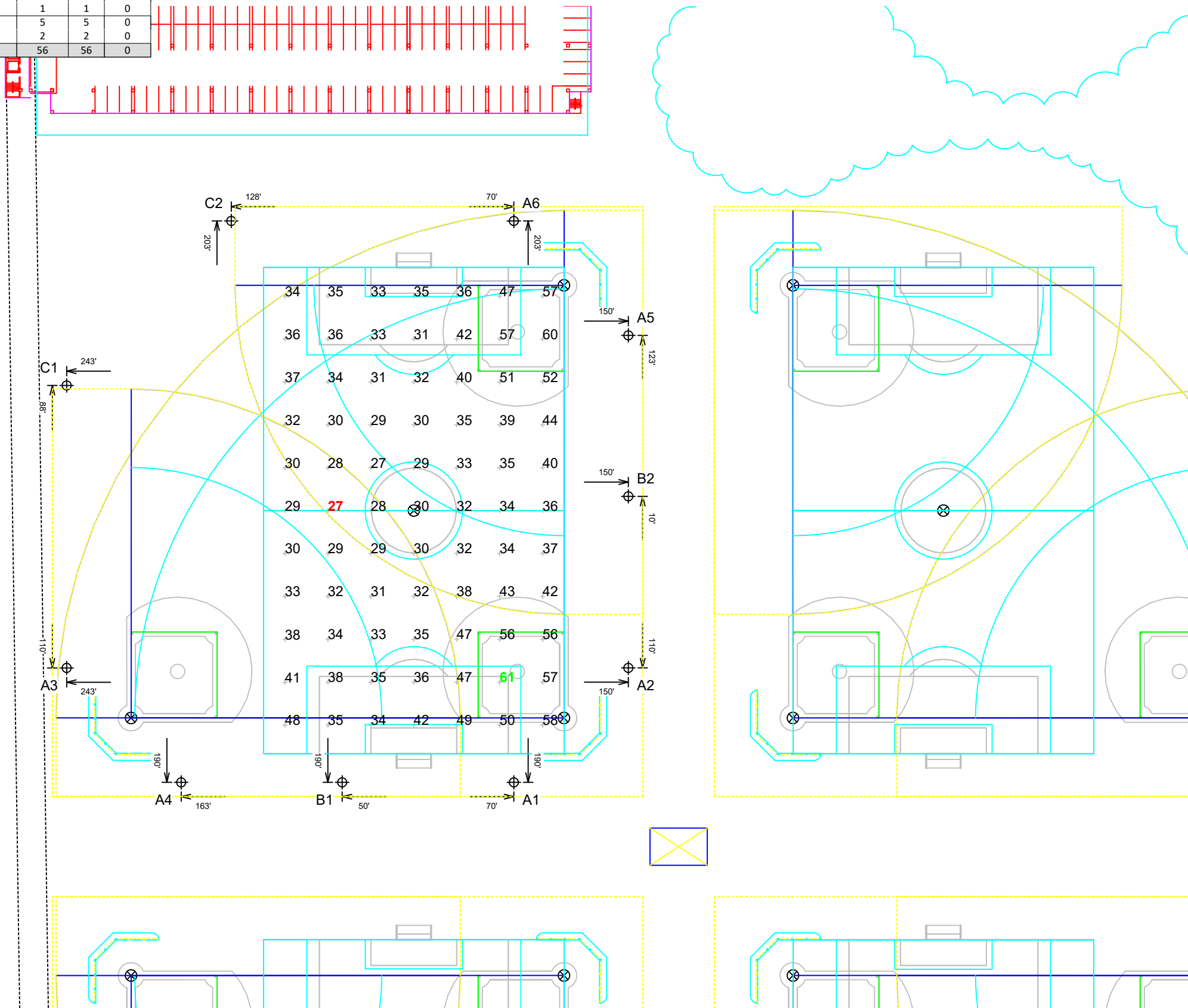
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A1-A6	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B1-B2	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C1-C2	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

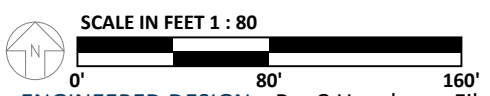


Ontario Sports Complex
Ontario, CA

Grid Summary	
Name	Baseball 1 - Soccer
Size	340' 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	37.98
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.24
UG (adjacent pts)	1.36
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	53.16 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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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name Baseball 2
Size 355'/355'/355' - basepath 60'
Spacing 20.0' x 20.0'
Height 3.0' above grade

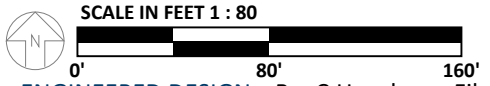
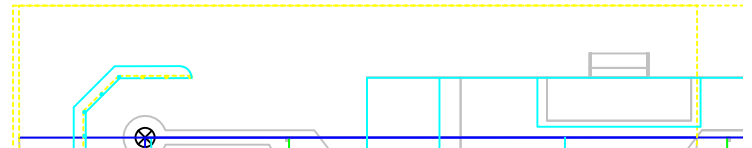
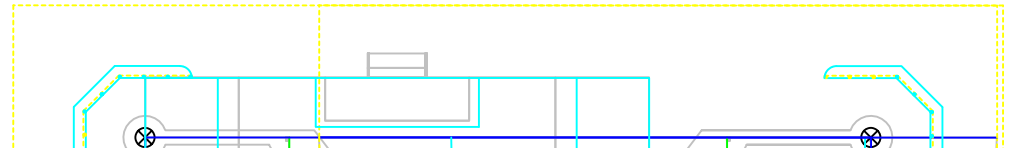
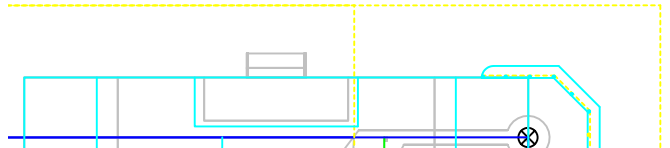
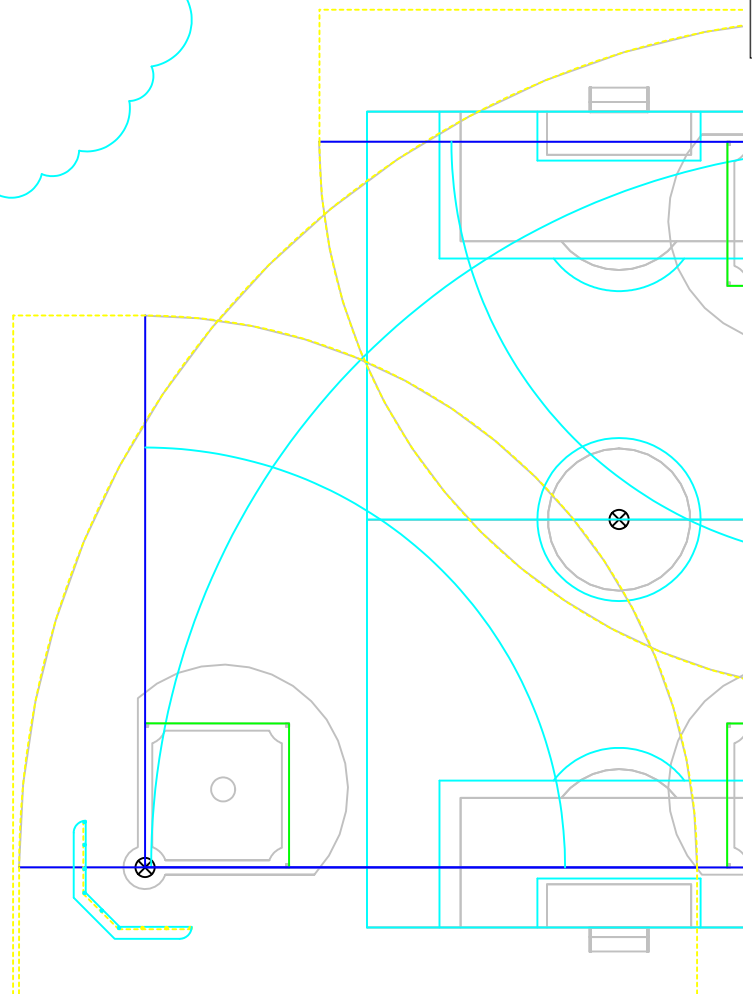
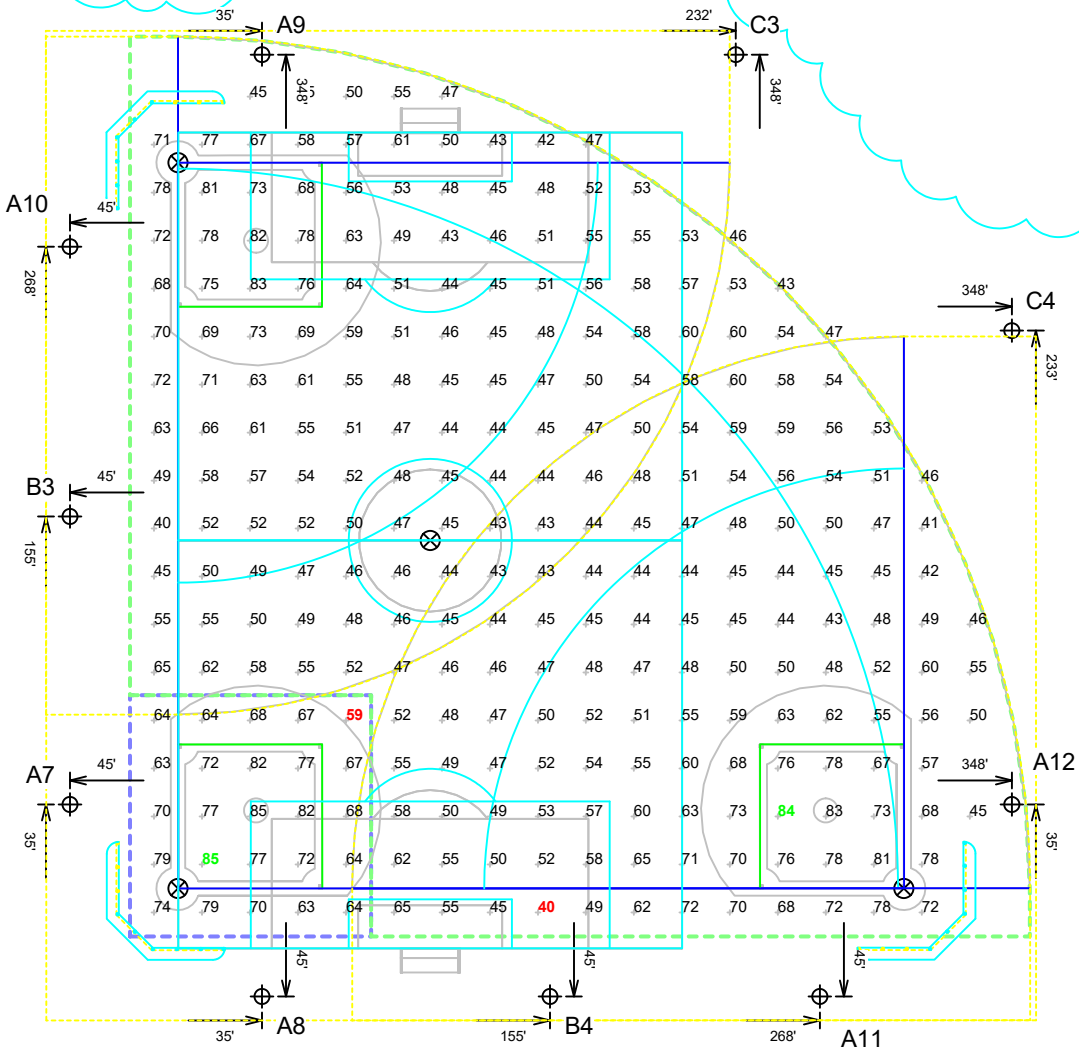
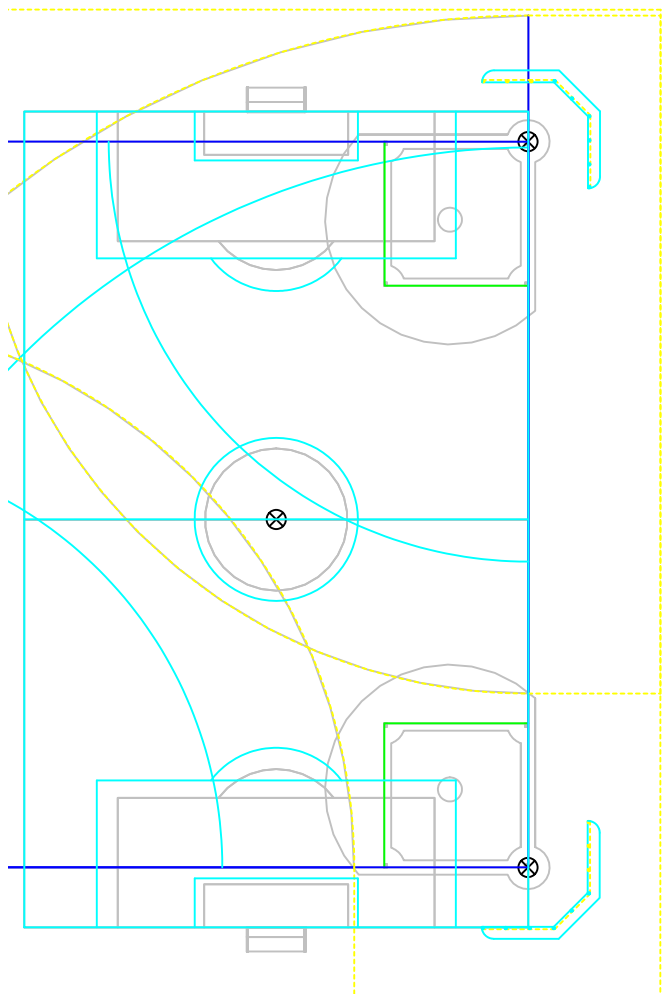
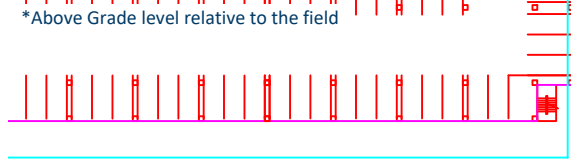
Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	71.69	54.83
Maximum	85	84
Minimum	59	40
Avg/Min	1.21	1.37
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.10
UG (adjacent pts)	1.22	1.50
CU	0.70	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	B	
No. of Luminaires	64	
Total Load	71.12 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.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A7-A12	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B3-B4	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 2 - LL1**
 Size 230'/230'/230' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	70.37	50.63
Maximum	84	73
Minimum	55	41
Avg/Min	1.27	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.52	1.80
UG (adjacent pts)	1.25	1.30
CU	0.30	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	B	
No. of Luminaires	64	
Total Load	71.12 kW	

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

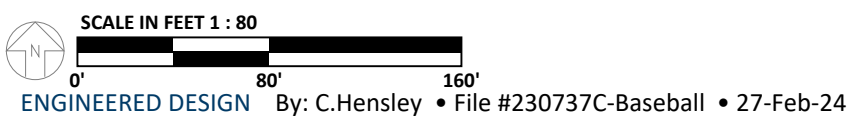
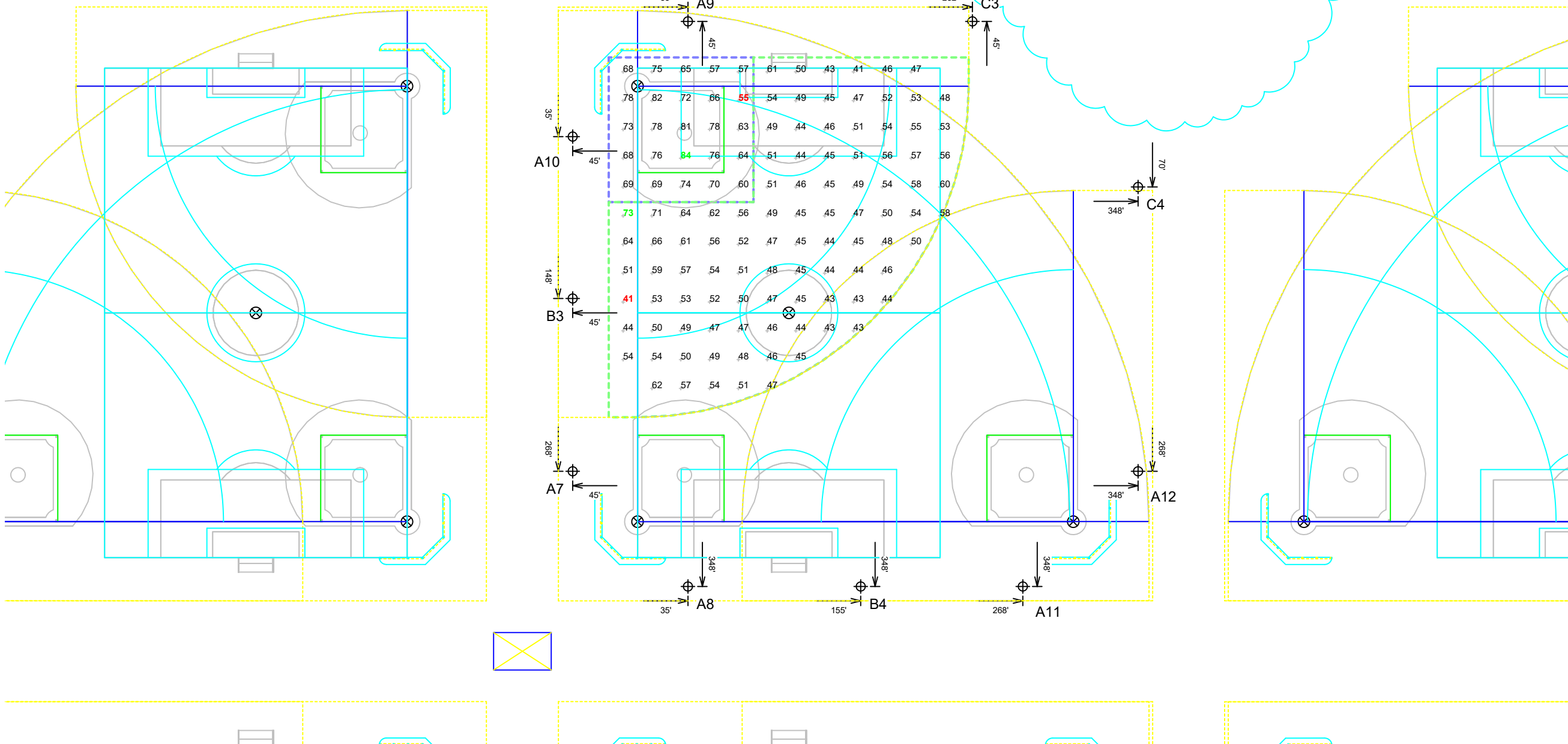
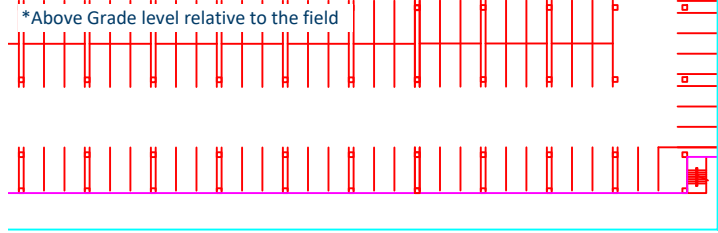
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A7-A12	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B3-B4	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0



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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A7-A12	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B3-B4	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 2 - LL2**
 Size 230'/230'/230' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

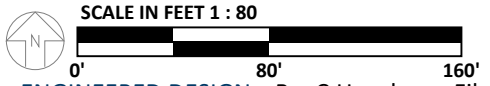
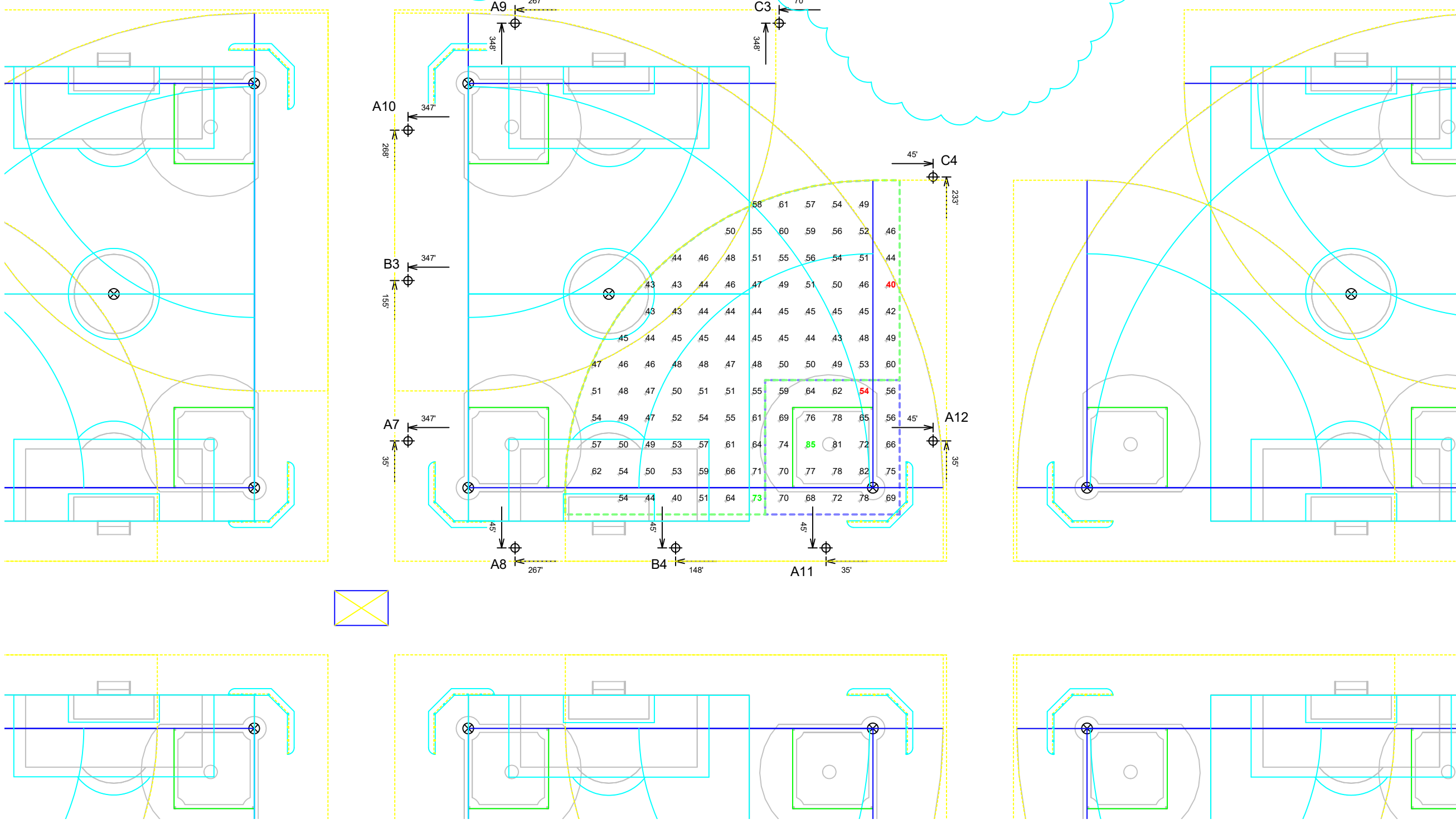
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	70.28	50.51
Maximum	85	73
Minimum	54	40
Avg/Min	1.29	1.26
Guaranteed Max/Min	2	2.5
Max/Min	1.56	1.82
UG (adjacent pts)	1.26	1.30
CU	0.30	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	B	
No. of Luminaires	64	
Total Load	71.12 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

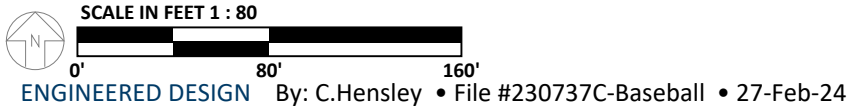
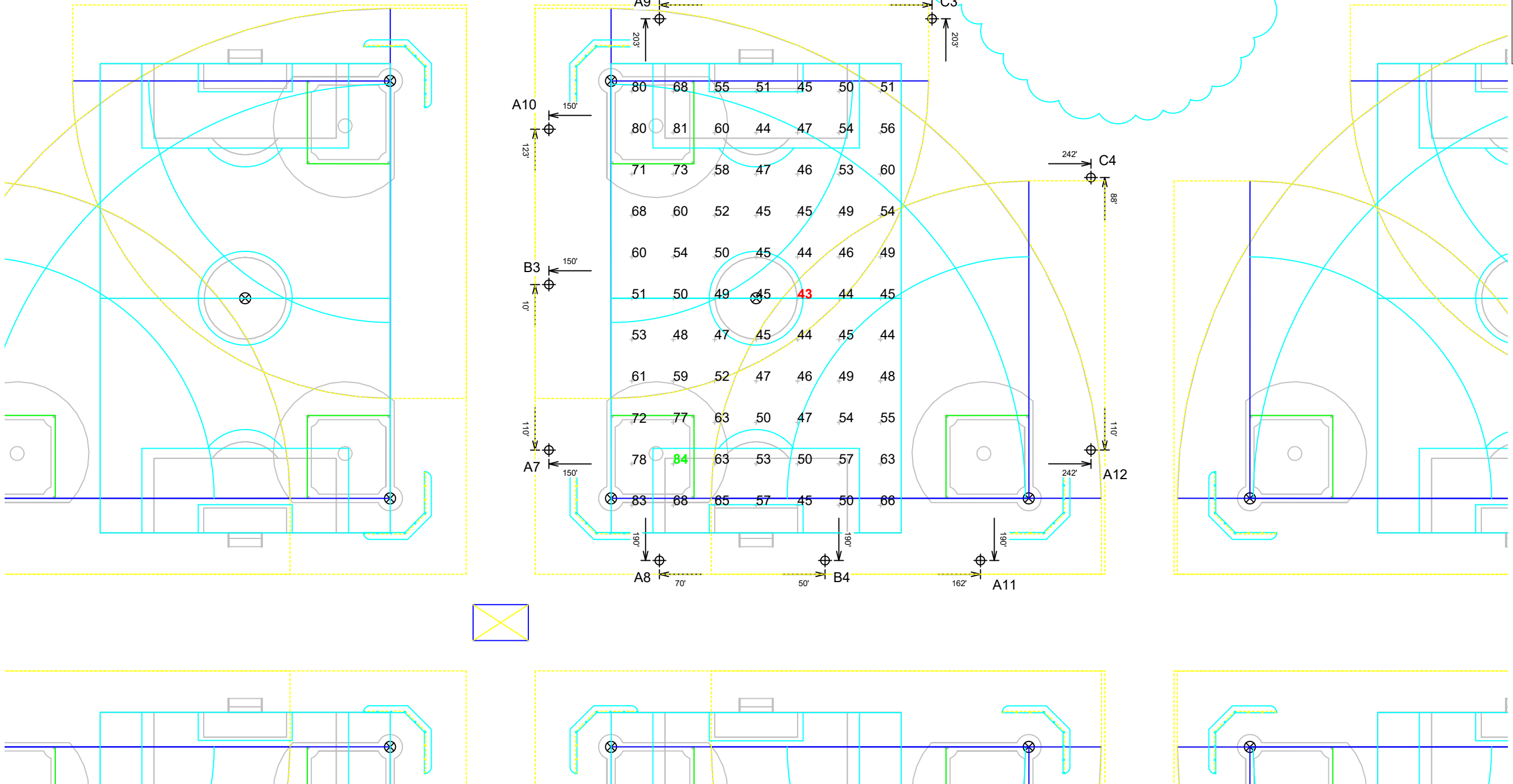
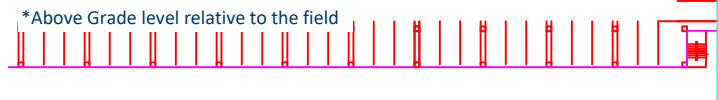
Name **Baseball 2 - Soccer**
 Size 340' x 210'
 Spacing 30.0' x 30.0'
 Height 3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	50
Scan Average	55.41
Maximum	84
Minimum	43
Avg/Min	1.29
Guaranteed Max/Min	2.5
Max/Min	1.95
UG (adjacent pts)	1.37
CU	0.43
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	64
Total Load	71.12 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.

Equipment List For Areas Shown				Luminaires				
Pole								
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A7-A12	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B3-B4	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C3-C4	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0



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



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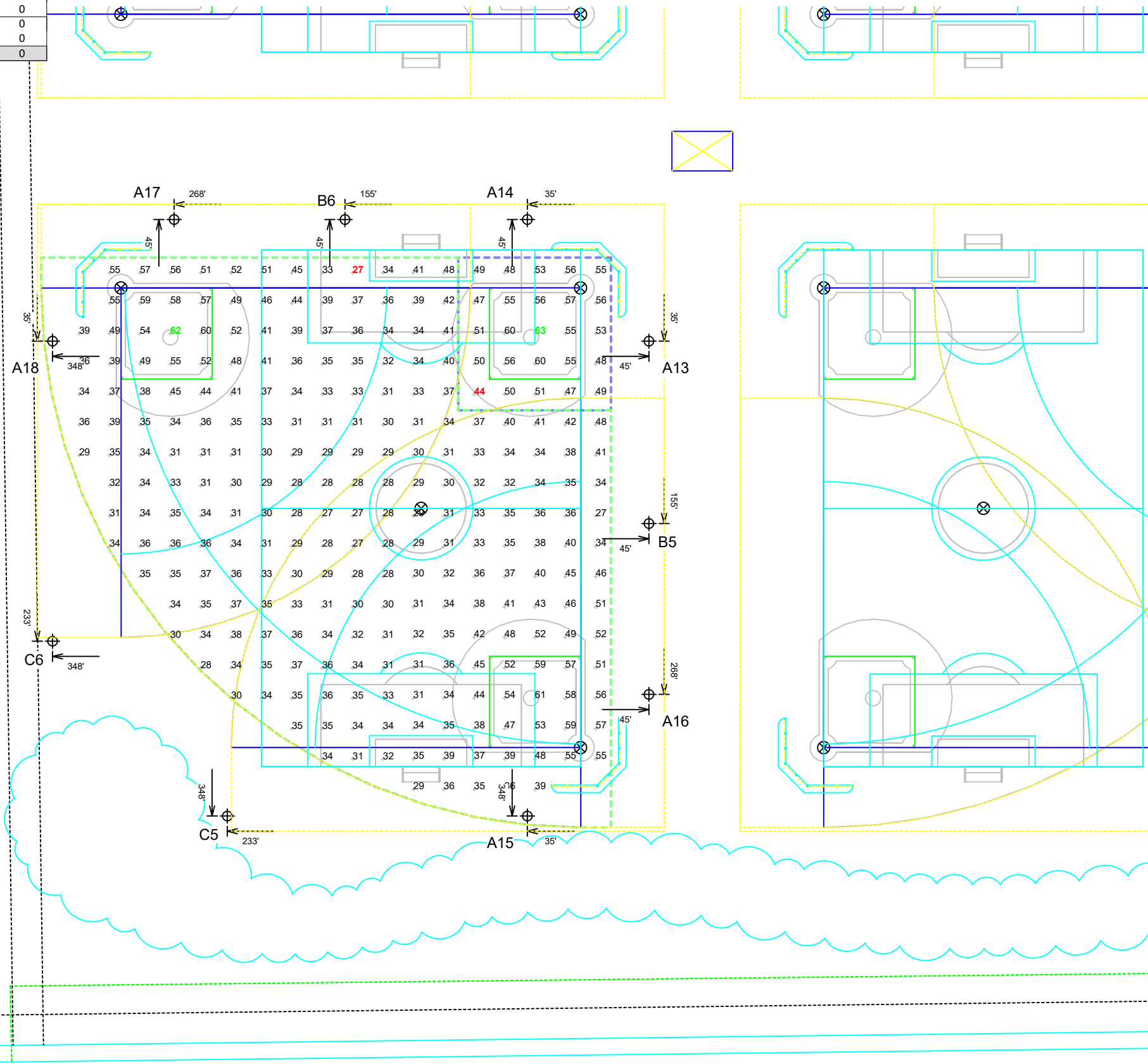
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A13-A18	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C5-C6	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 3
Size	355'/355'/355' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

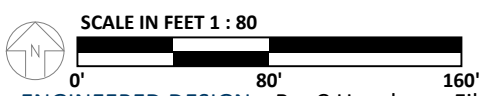
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	52.99	37.65
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	C	
No. of Luminaires	56	
Total Load	53.16 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) ⊗

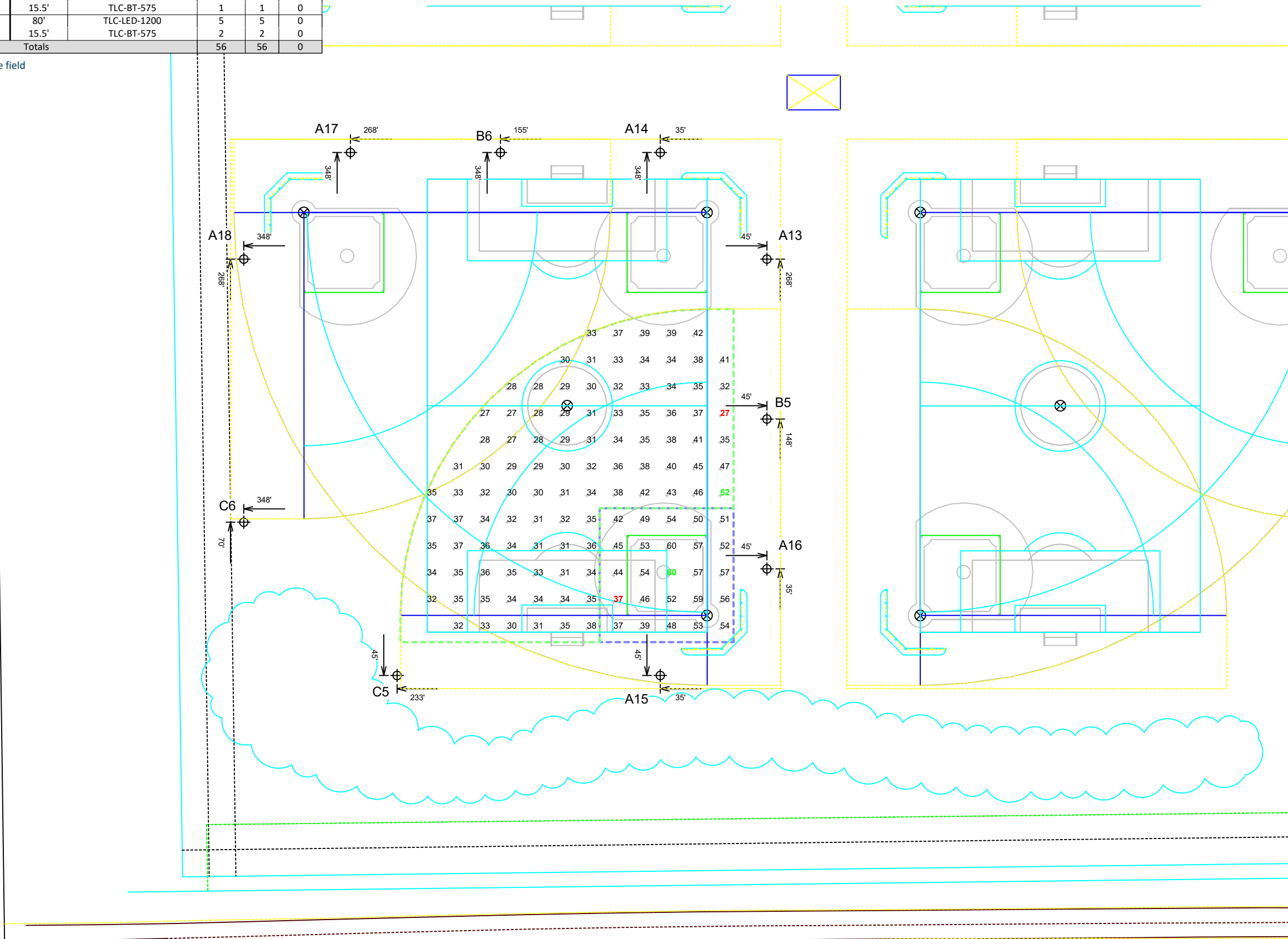


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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A13-A18	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C5-C6	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 3 - LL1
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

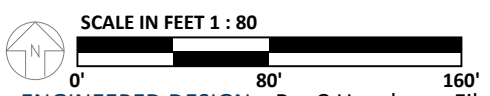
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	C	
No. of Luminaires	56	
Total Load	53.16 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A13-A18	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C5-C6	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

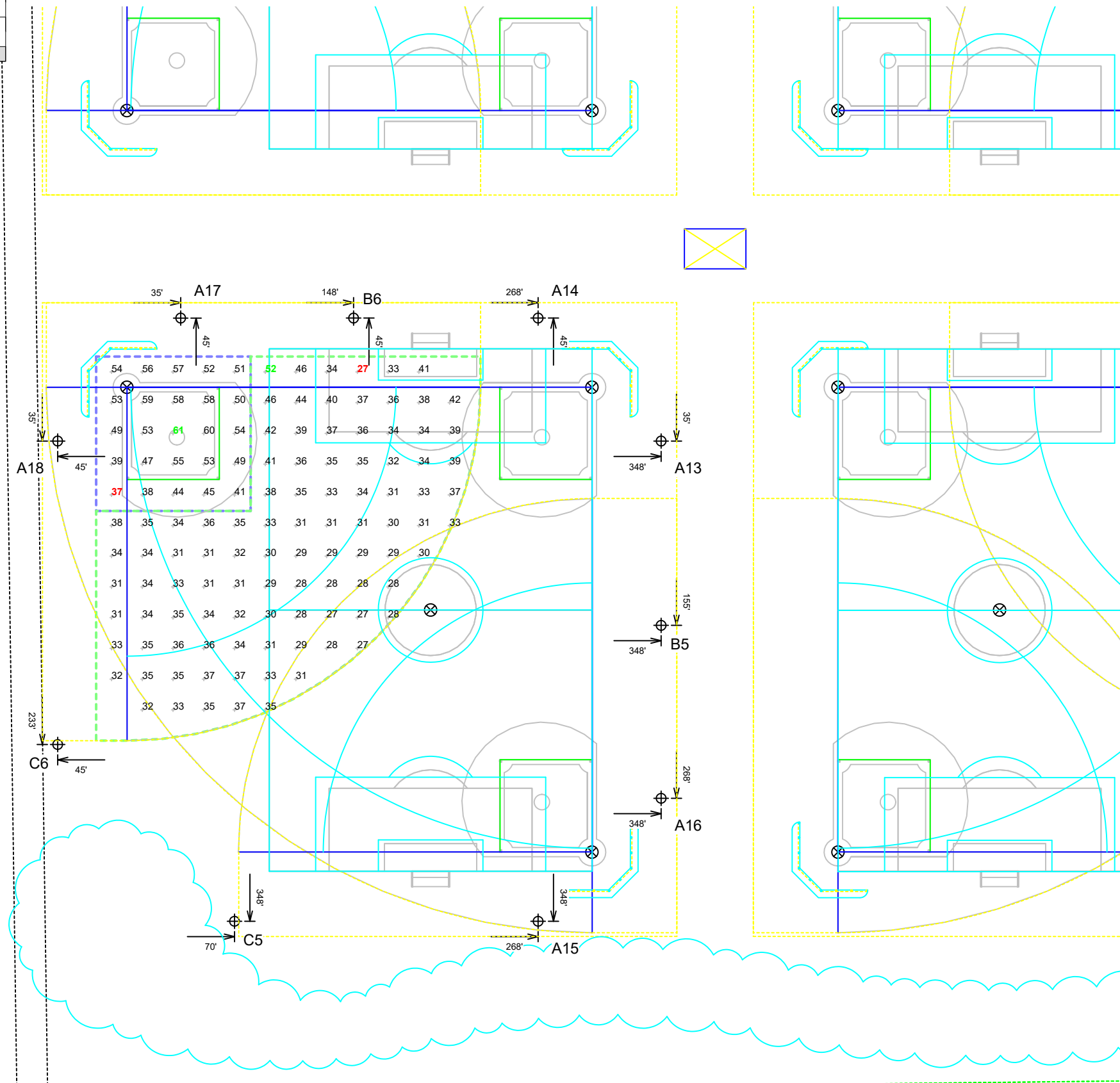
Ontario, CA

Grid Summary

Name **Baseball 3 - LL2**
 Size 230'/230'/230' - 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	50.86	33.84
Maximum	61	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.65	1.90
UG (adjacent pts)	1.25	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	C	
No. of Luminaires	56	
Total Load	53.16 kW	



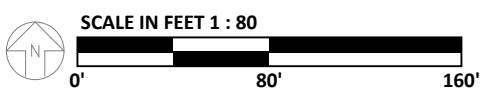
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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) ⊗

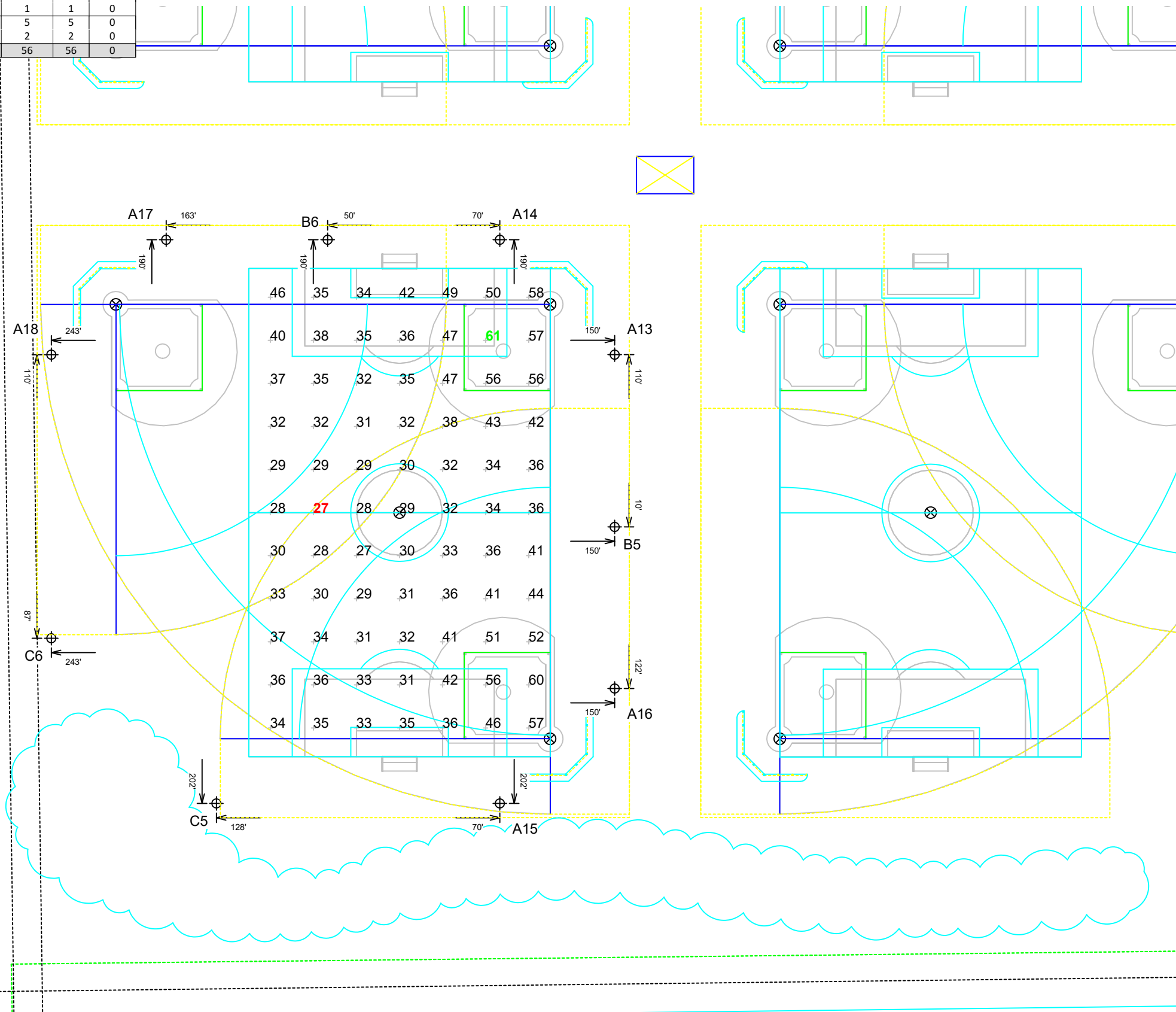


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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A13-A18	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B5-B6	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C5-C6	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 3 - Soccer
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

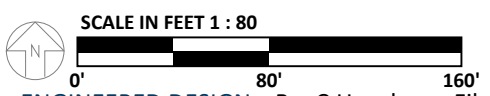
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	30
Scan Average	38.00
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.23
UG (adjacent pts)	1.35
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	56
Total Load	53.16 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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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name Baseball 4
Size 355'/355'/355' - basepath 60'
Spacing 20.0' x 20.0'
Height 3.0' above grade

Illumination Summary

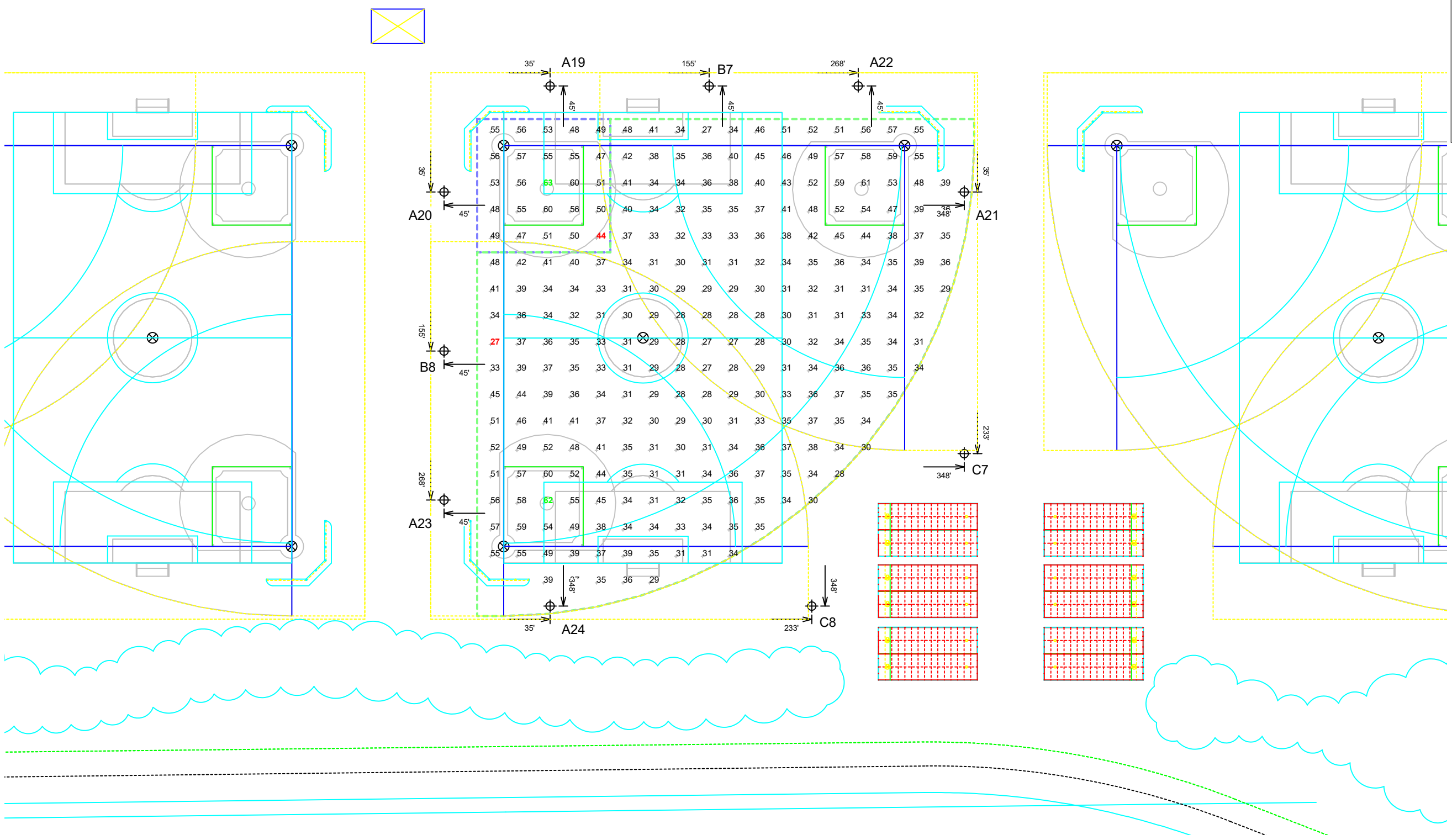
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	52.99	37.63
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	D	
No. of Luminaires	56	
Total Load	53.16 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.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A19-A24	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B7-B8	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C7-C8	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



SCALE IN FEET 1 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 4 - LL1**
 Size 230'/230'/230' - 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	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	D	
No. of Luminaires	56	
Total Load	53.16 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.

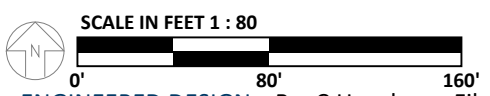
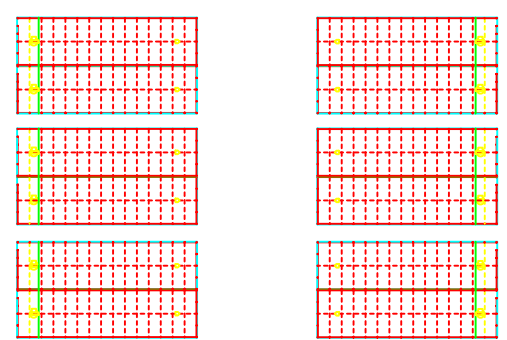
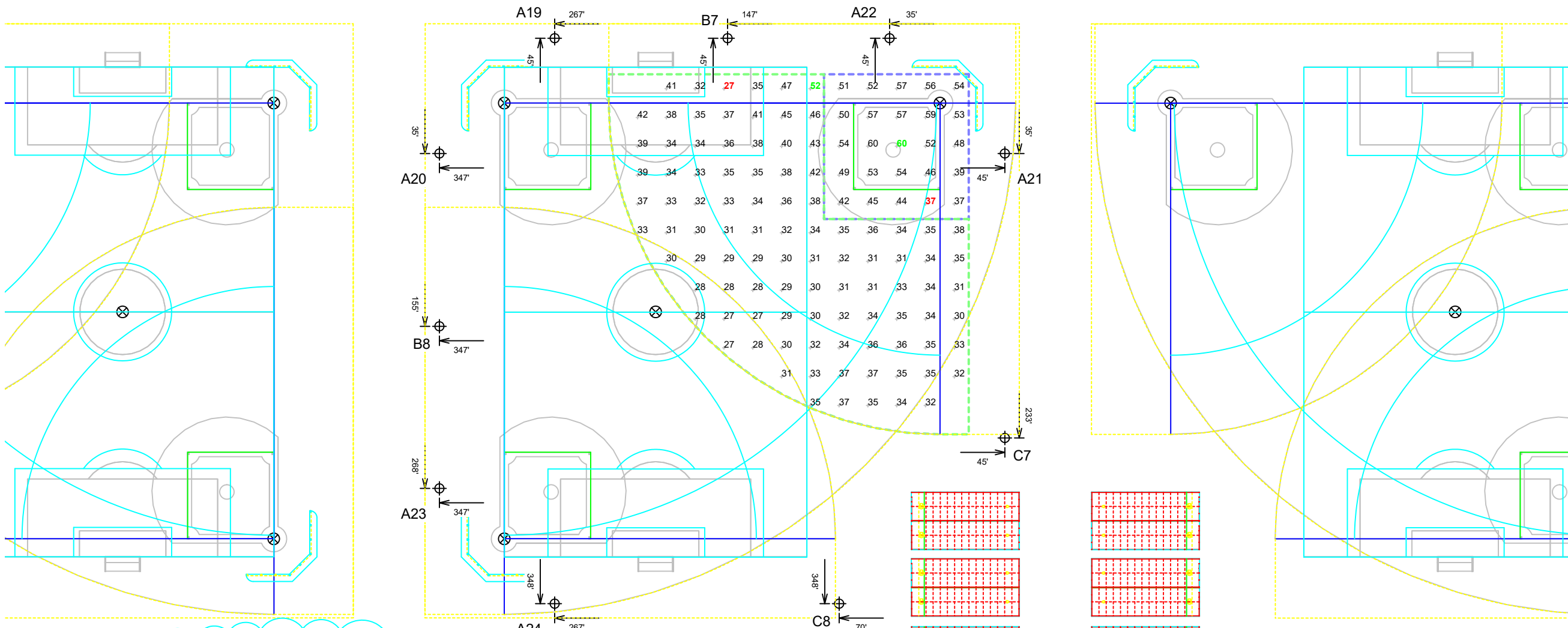
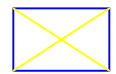
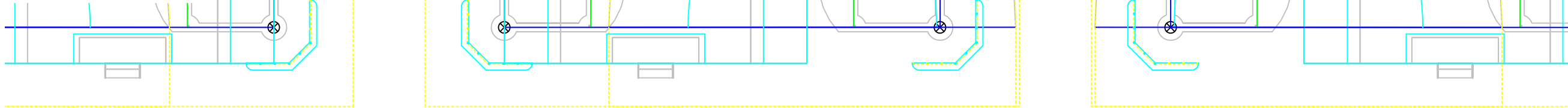
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A19-A24	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B7-B8	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C7-C8	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



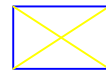
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A19-A24	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B7-B8	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C7-C8	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 4 - LL2**
 Size 230'/230'/230' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

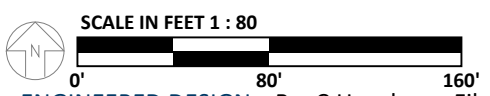
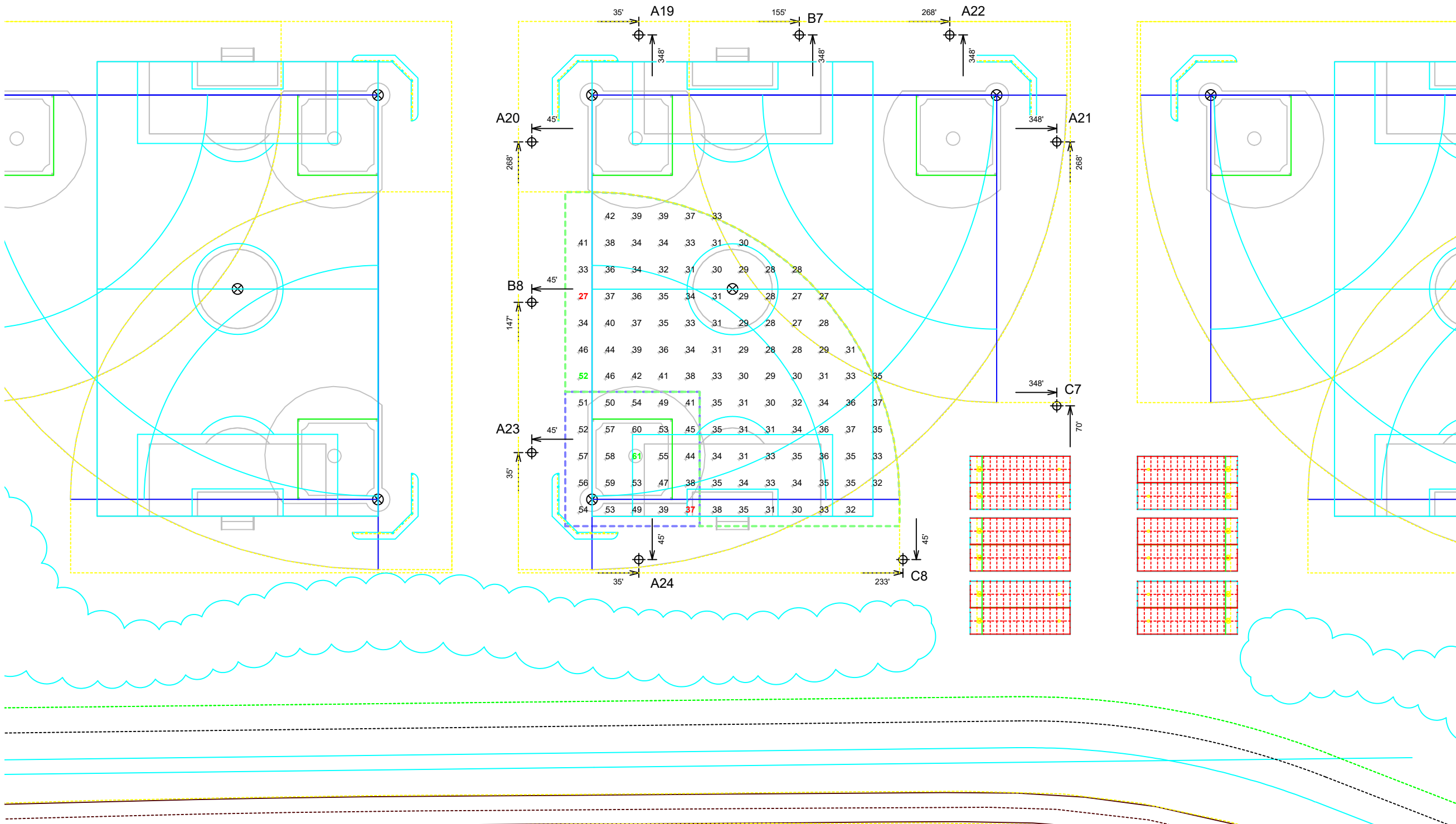
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.85	33.79
Maximum	61	52
Minimum	37	27
Avg/Min	1.36	1.24
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.90
UG (adjacent pts)	1.26	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	D	
No. of Luminaires	56	
Total Load	53.16 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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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A19-A24	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B7-B8	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C7-C8	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 4 - Soccer
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

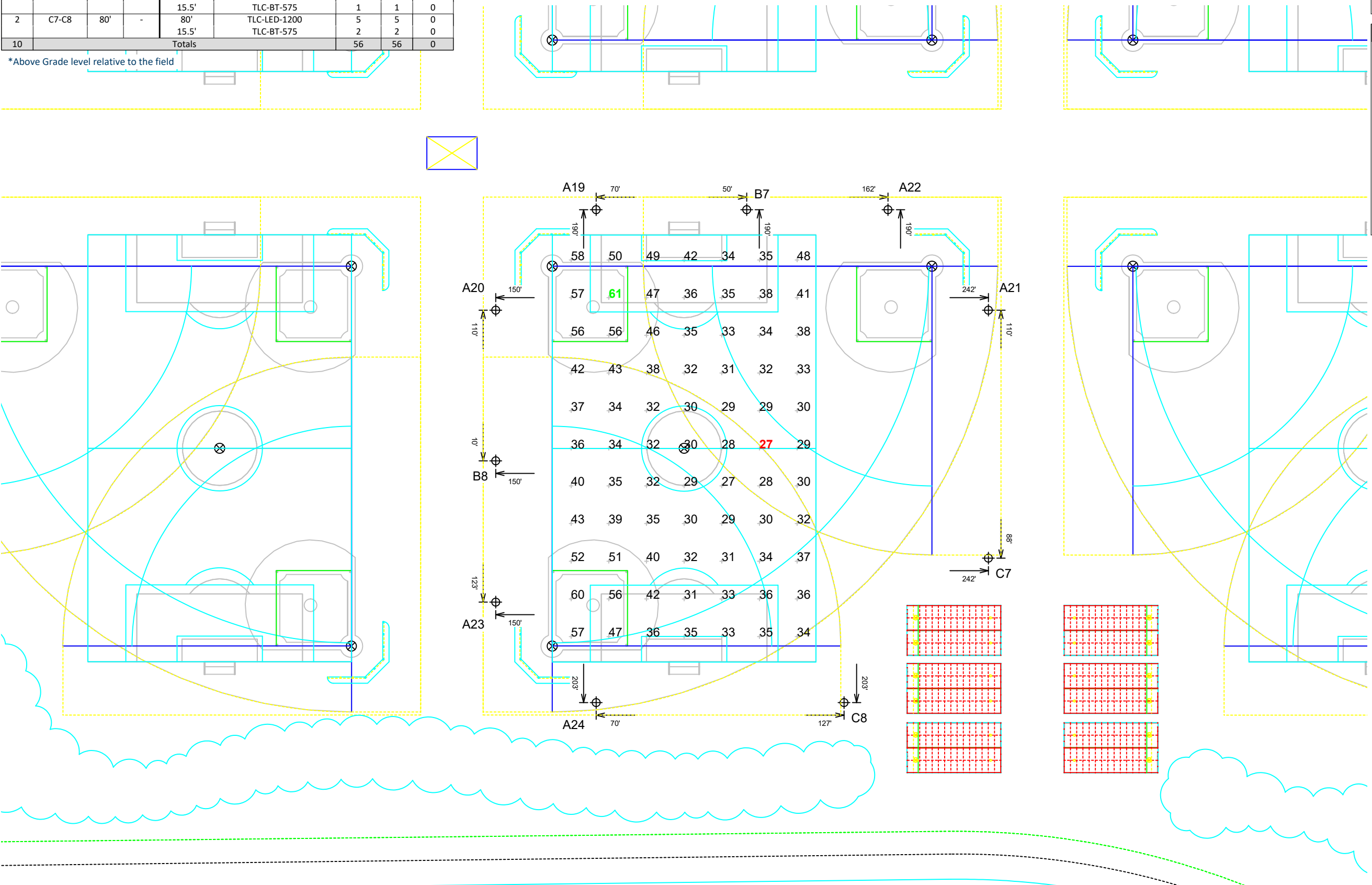
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	30
Scan Average	37.96
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.23
UG (adjacent pts)	1.36
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	56
Total Load	53.16 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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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A25-A30	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B9-B10	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C9-C10	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 5**
 Size 355'/355'/355' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

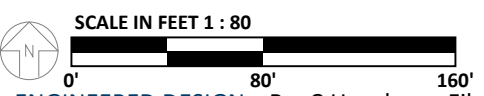
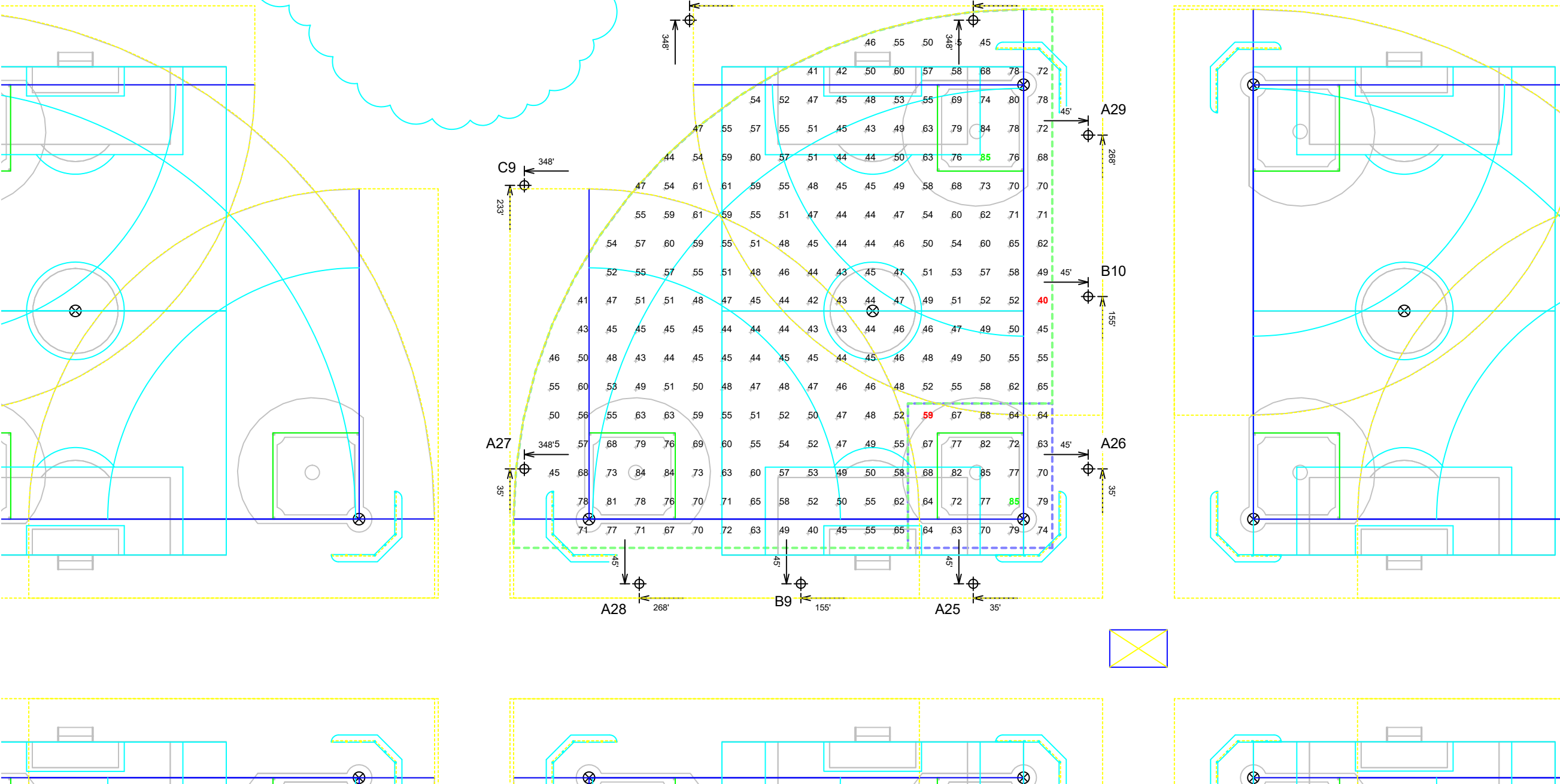
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	71.69	54.94
Maximum	85	85
Minimum	59	40
Avg/Min	1.21	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.12
UG (adjacent pts)	1.22	1.50
CU	0.70	
No. of Points	25	247
LUMINAIRE INFORMATION		
Applied Circuits	E	
No. of Luminaires	64	
Total Load	71.12 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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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A25-A30	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B9-B10	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C9-C10	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 5 - LL 1**
 Size 230'/230'/230' - basepath 60'
 Spacing 20.0' x 20.0'
 Height 3.0' above grade

Illumination Summary

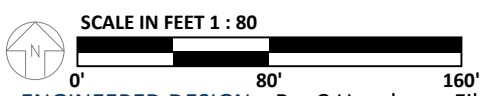
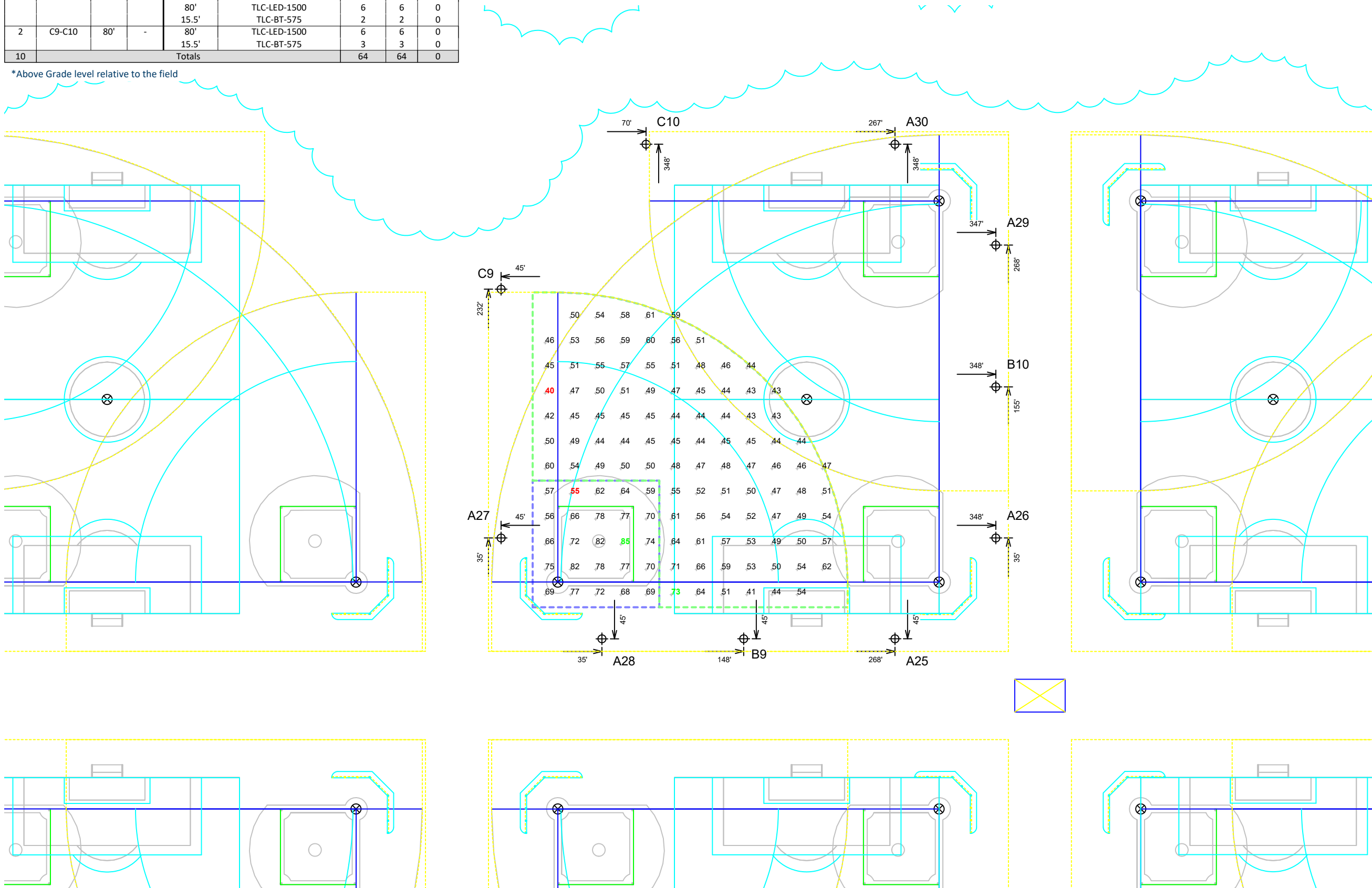
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	70.40	50.67
Maximum	85	73
Minimum	55	40
Avg/Min	1.28	1.26
Guaranteed Max/Min	2	2.5
Max/Min	1.56	1.80
UG (adjacent pts)	1.26	1.30
CU	0.30	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	E	
No. of Luminaires	64	
Total Load	71.12 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A25-A30	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B9-B10	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C9-C10	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 5 - LL 2
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

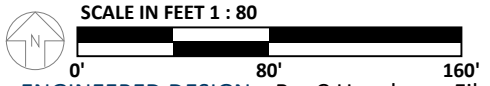
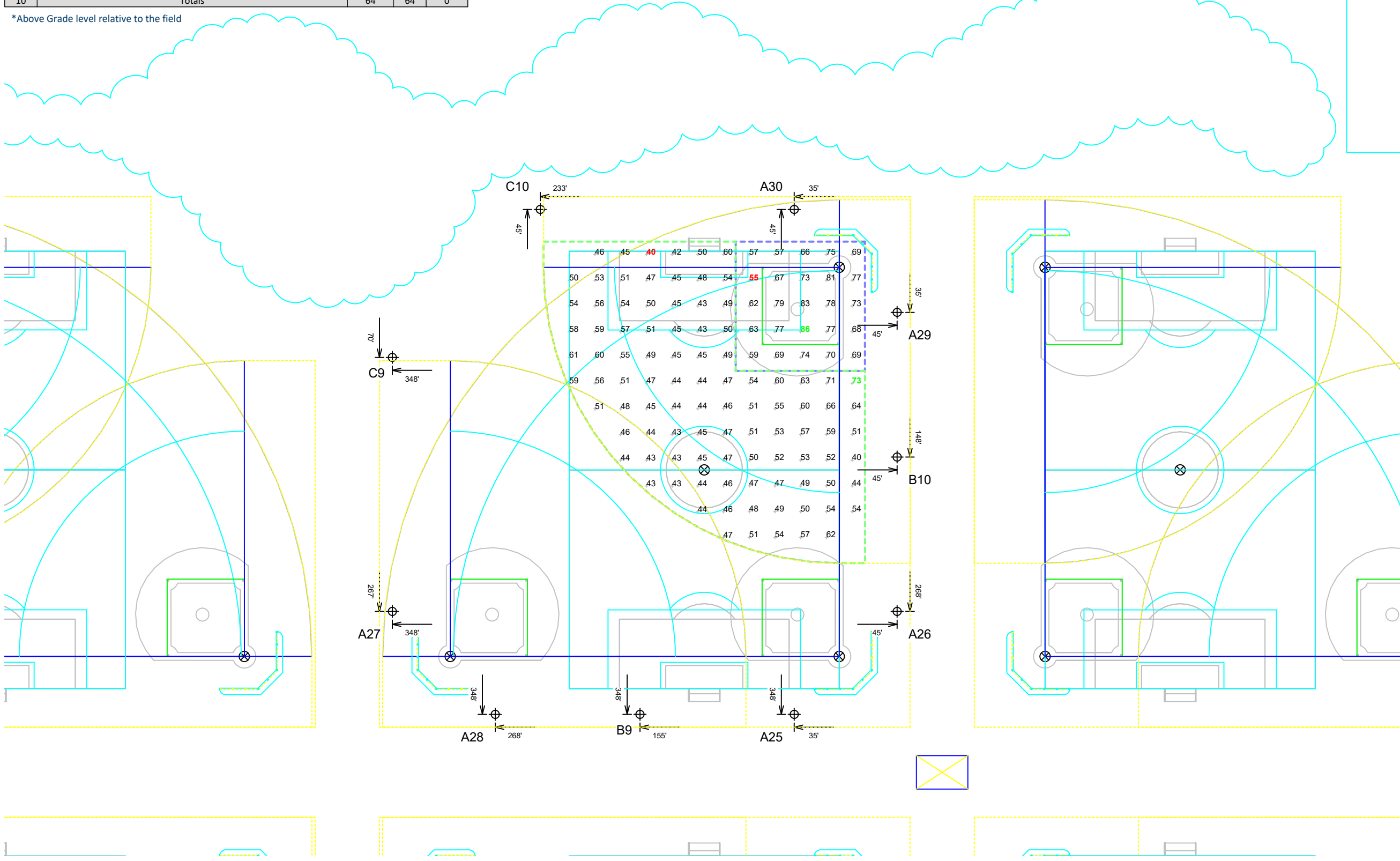
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	70	50
Scan Average	70.54	50.46
Maximum	86	73
Minimum	55	40
Avg/Min	1.28	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.55	1.80
UG (adjacent pts)	1.27	1.30
CU	0.30	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	E	
No. of Luminaires	64	
Total Load	71.12 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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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A25-A30	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B9-B10	80'	-	80'	TLC-LED-1200	3	3	0
				80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	2	2	0
2	C9-C10	80'	-	80'	TLC-LED-1500	6	6	0
				15.5'	TLC-BT-575	3	3	0
10	Totals					64	64	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 5 - Soccer
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

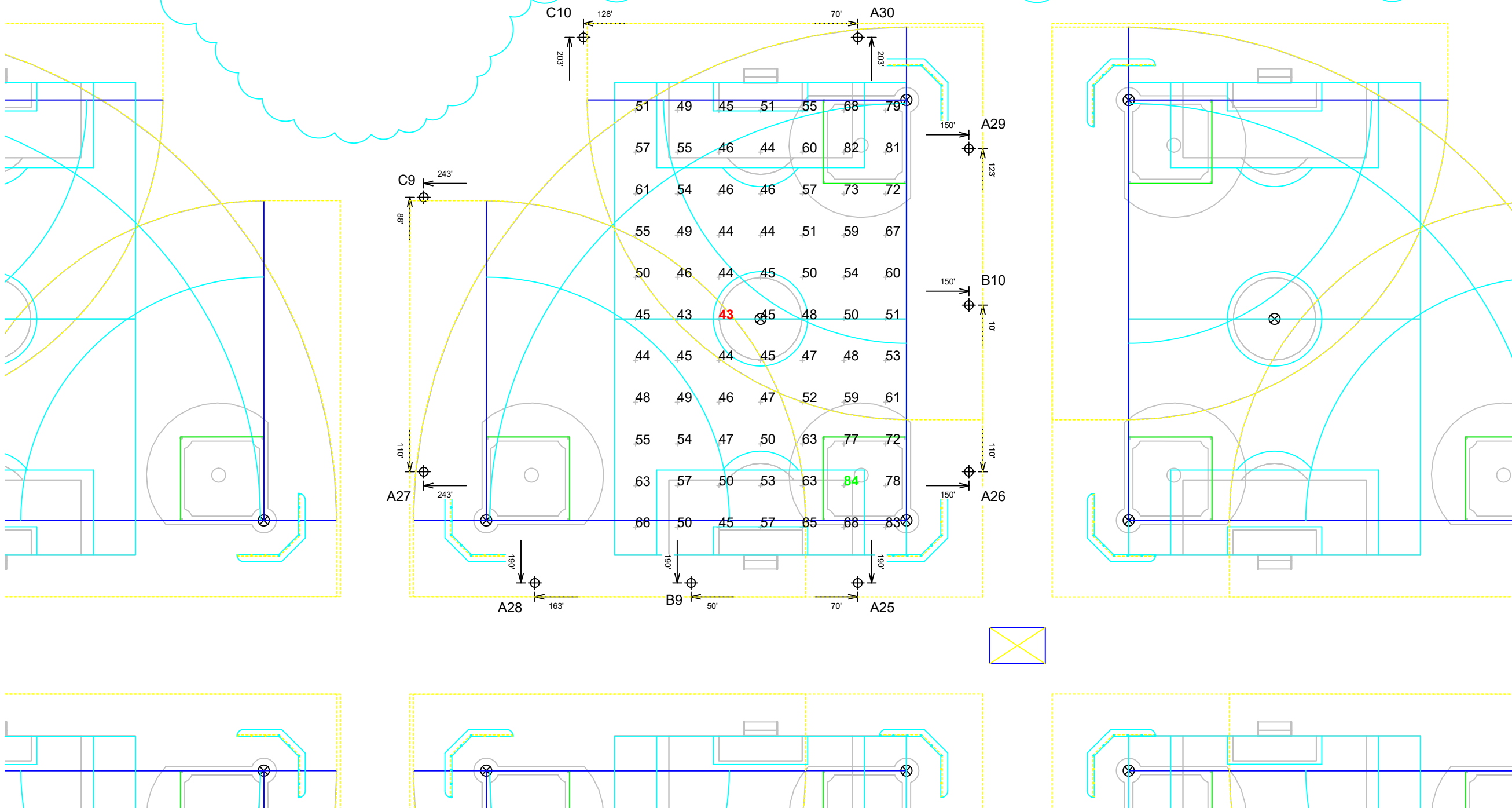
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	50
Scan Average	55.34
Maximum	84
Minimum	43
Avg/Min	1.30
Guaranteed Max/Min	2.5
Max/Min	1.96
UG (adjacent pts)	1.37
CU	0.43
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	E
No. of Luminaires	64
Total Load	71.12 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 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 6
Size	355'/355'/355' - 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	52.99	37.63
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	F	
No. of Luminaires	56	
Total Load	53.16 kW	

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

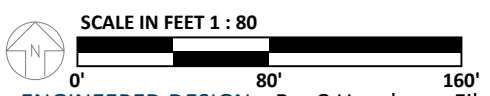
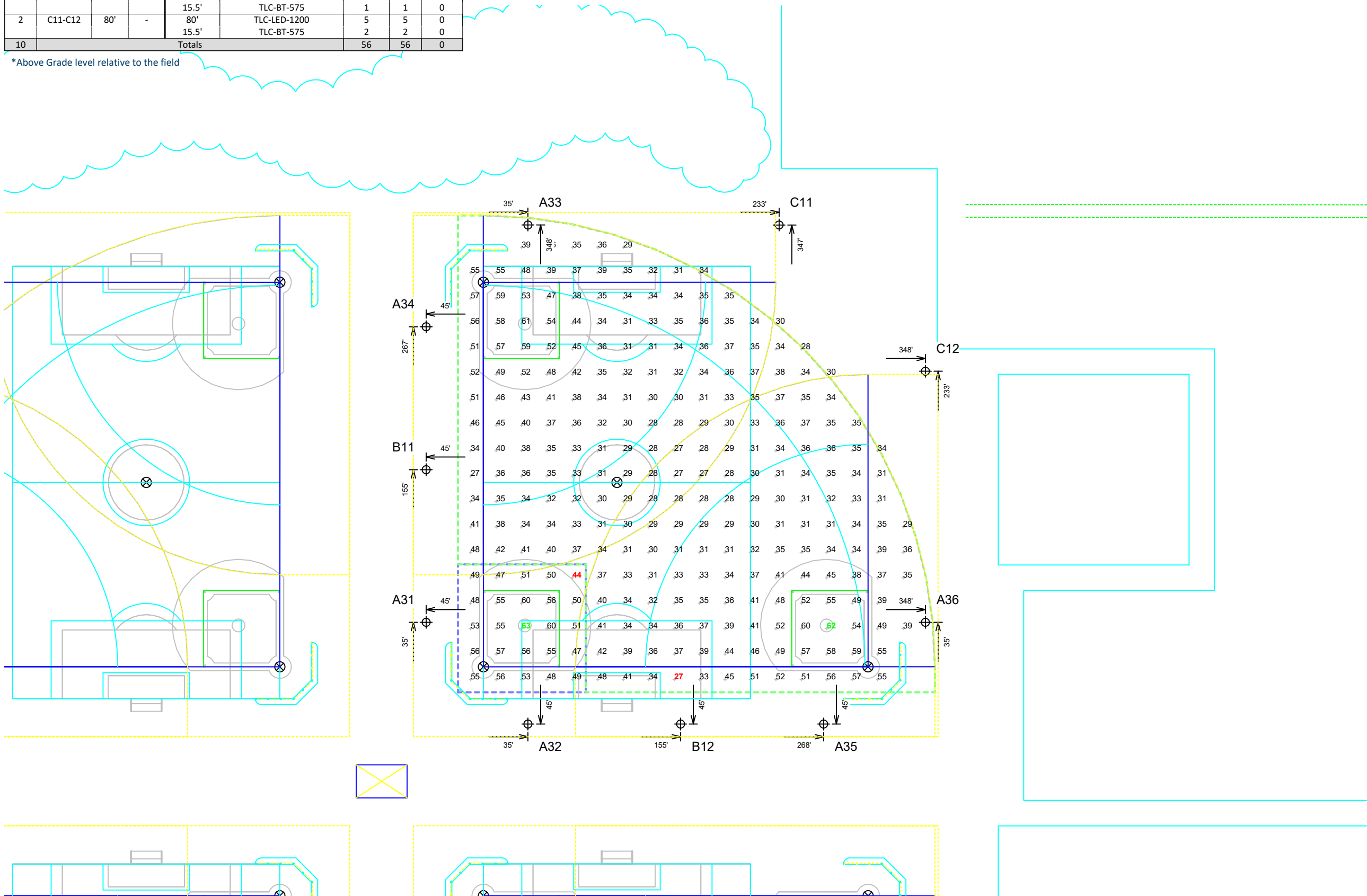
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A31-A36	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B11-B12	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C11-C12	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A31-A36	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B11-B12	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C11-C12	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 6 - LL1
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

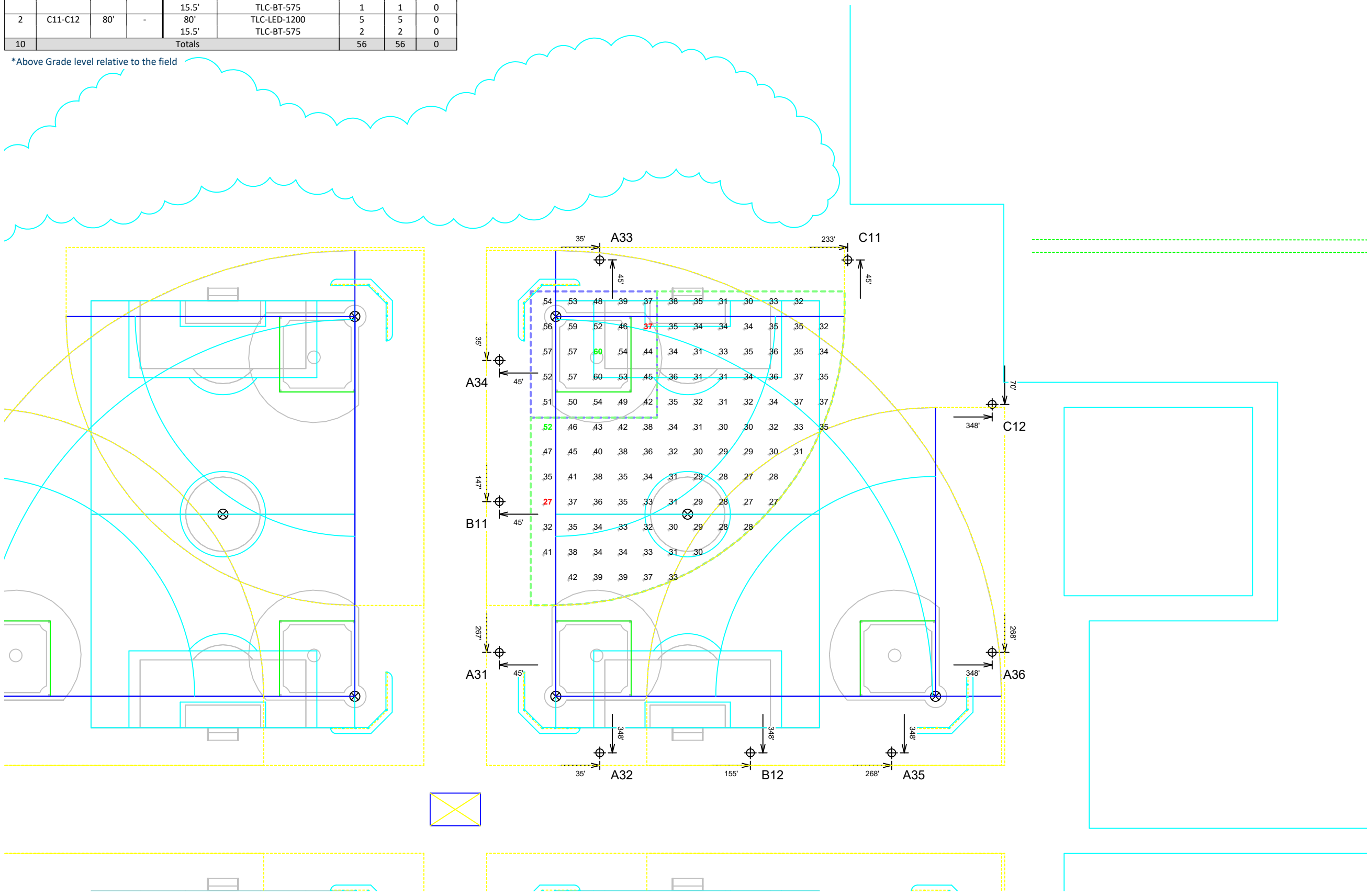
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	F	
No. of Luminaires	56	
Total Load	53.16 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 : 80
 0' 80' 160'
 ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



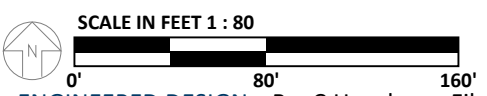
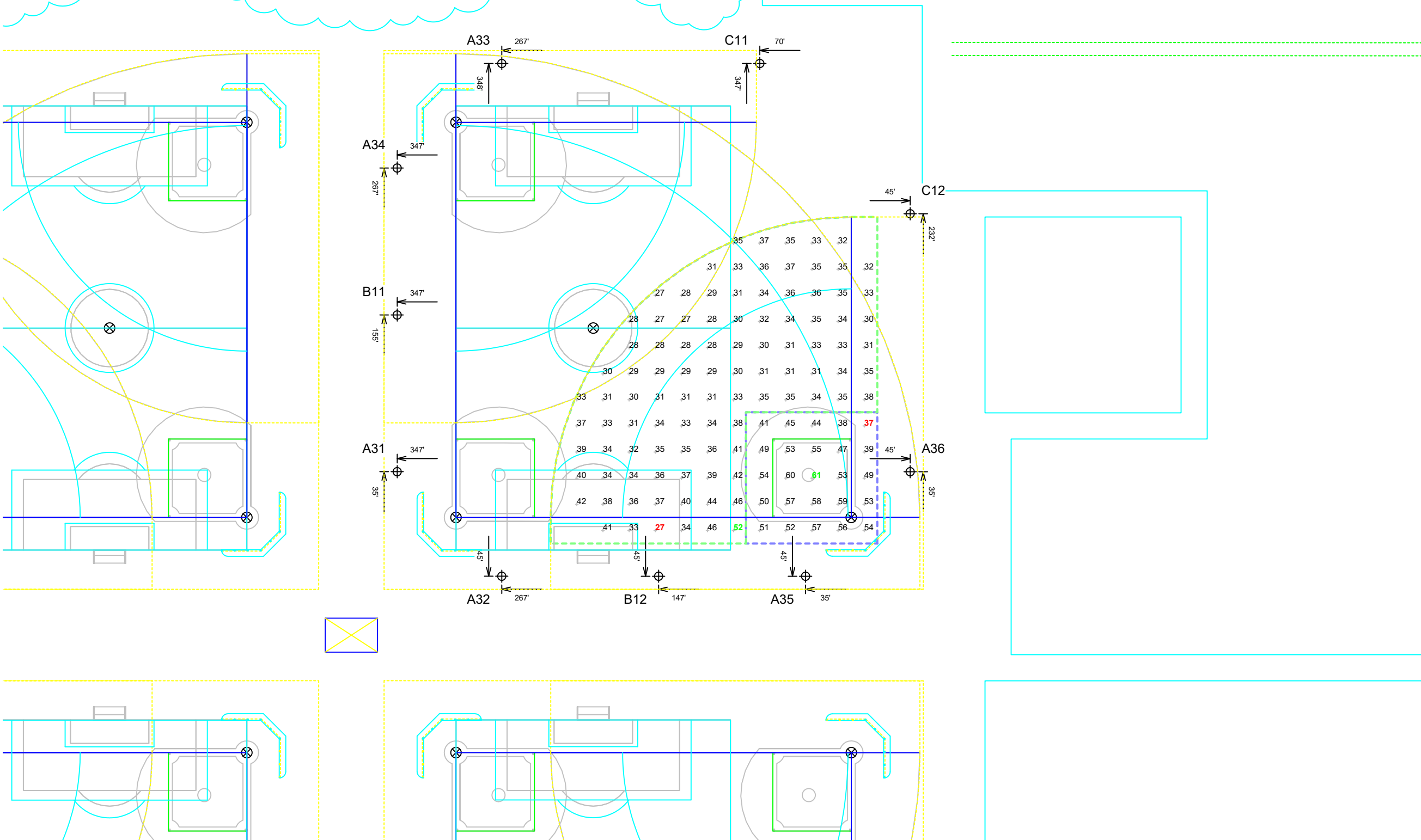
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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A31-A36	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B11-B12	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C11-C12	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 6 - LL2
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.86	33.79
Maximum	61	52
Minimum	37	27
Avg/Min	1.37	1.24
Guaranteed Max/Min	2	2.5
Max/Min	1.65	1.90
UG (adjacent pts)	1.26	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	F	
No. of Luminaires	56	
Total Load	53.16 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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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 6 - Soccer**
 Size 340' 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	37.99
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.23
UG (adjacent pts)	1.35
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	F
No. of Luminaires	56
Total Load	53.16 kW

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

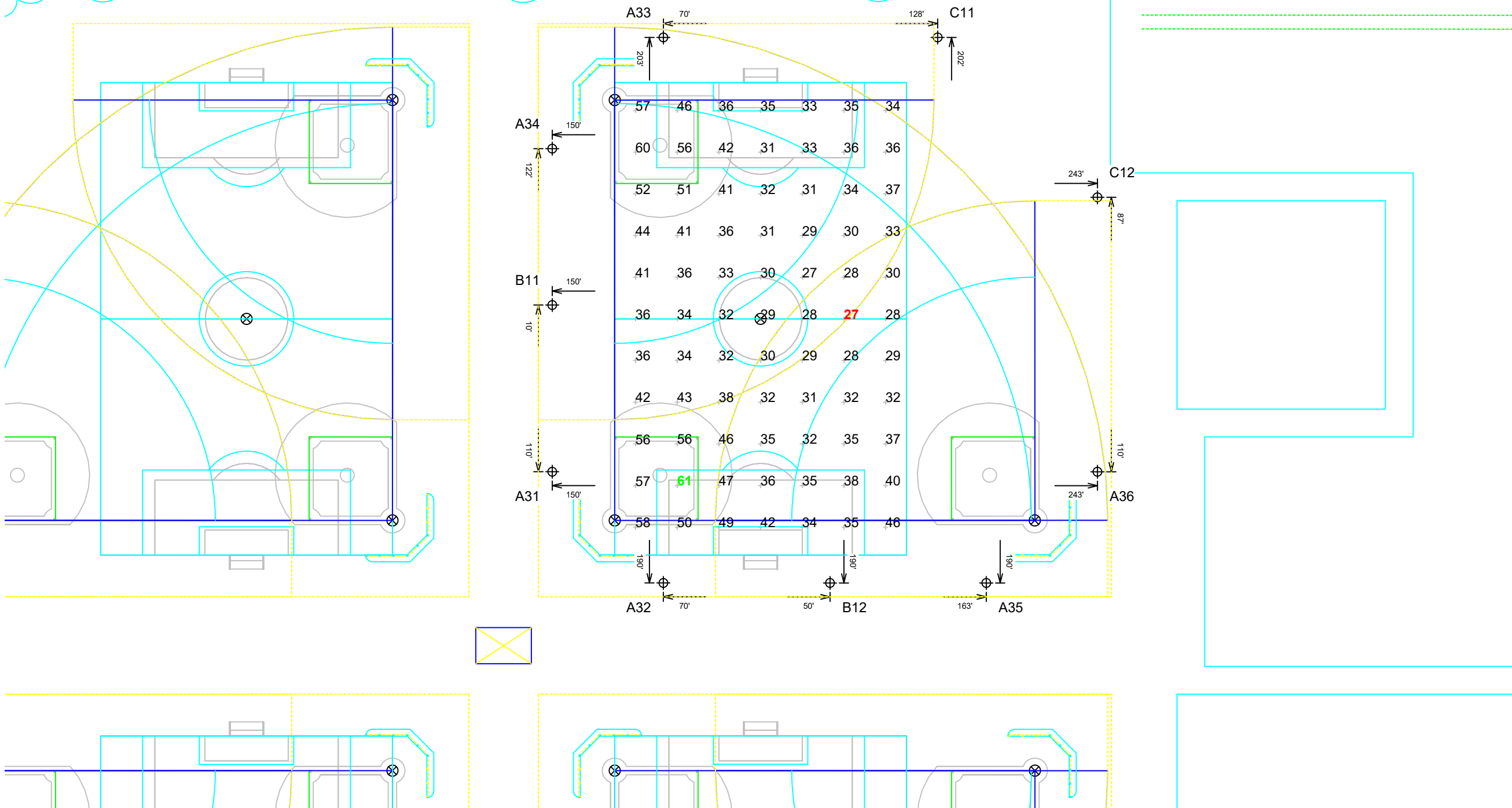
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A31-A36	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B11-B12	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C11-C12	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



SCALE IN FEET 1 : 80

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A37-A42	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B13-B14	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C13-C14	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 7
Size	355'/355'/355' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

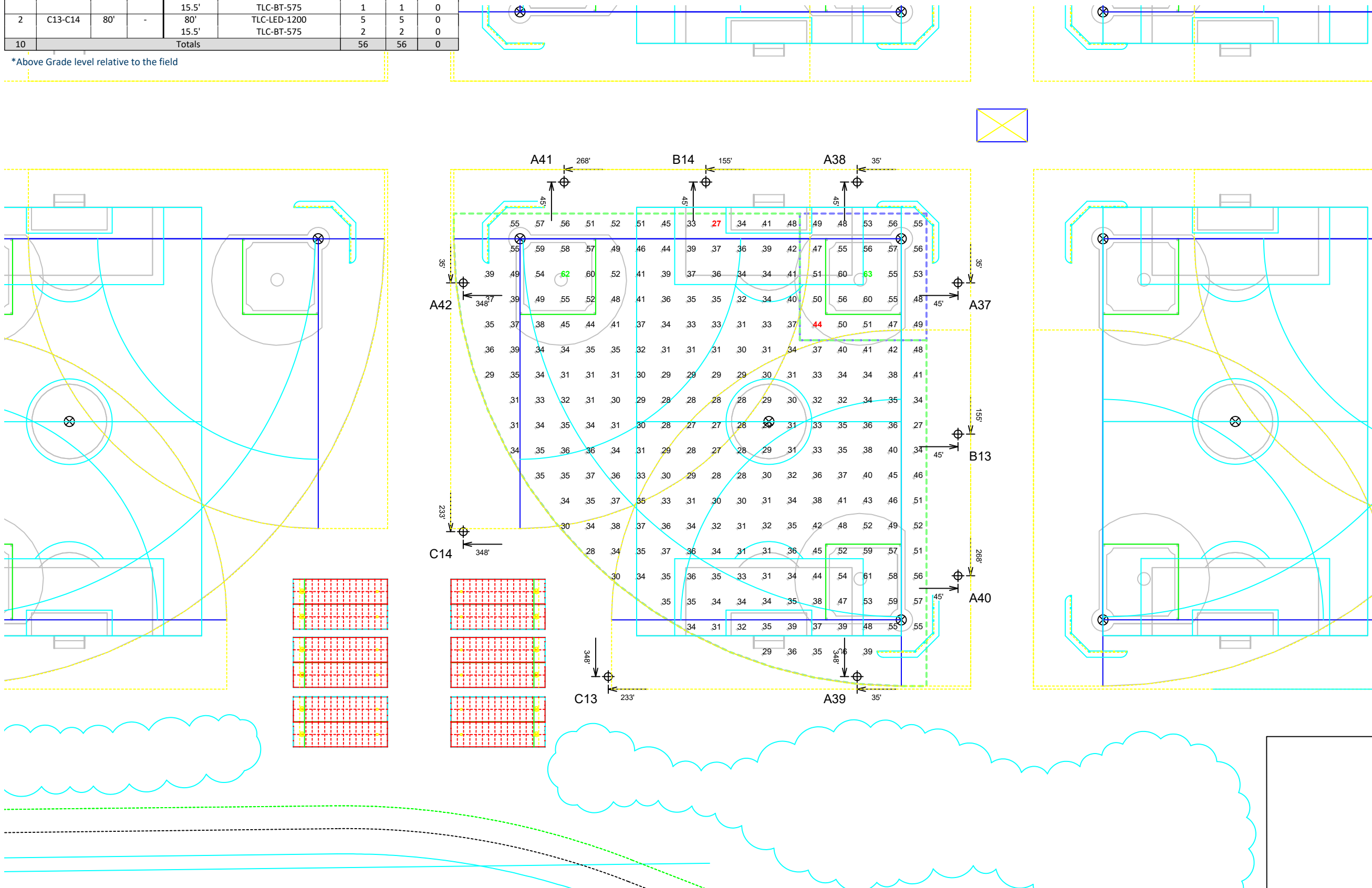
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	52.99	37.63
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	G	
No. of Luminaires	56	
Total Load	53.16 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 : 80
 0' 80' 160'
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A37-A42	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B13-B14	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C13-C14	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 7 - LL1
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

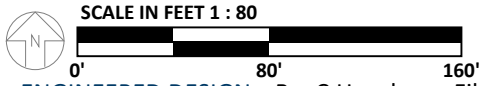
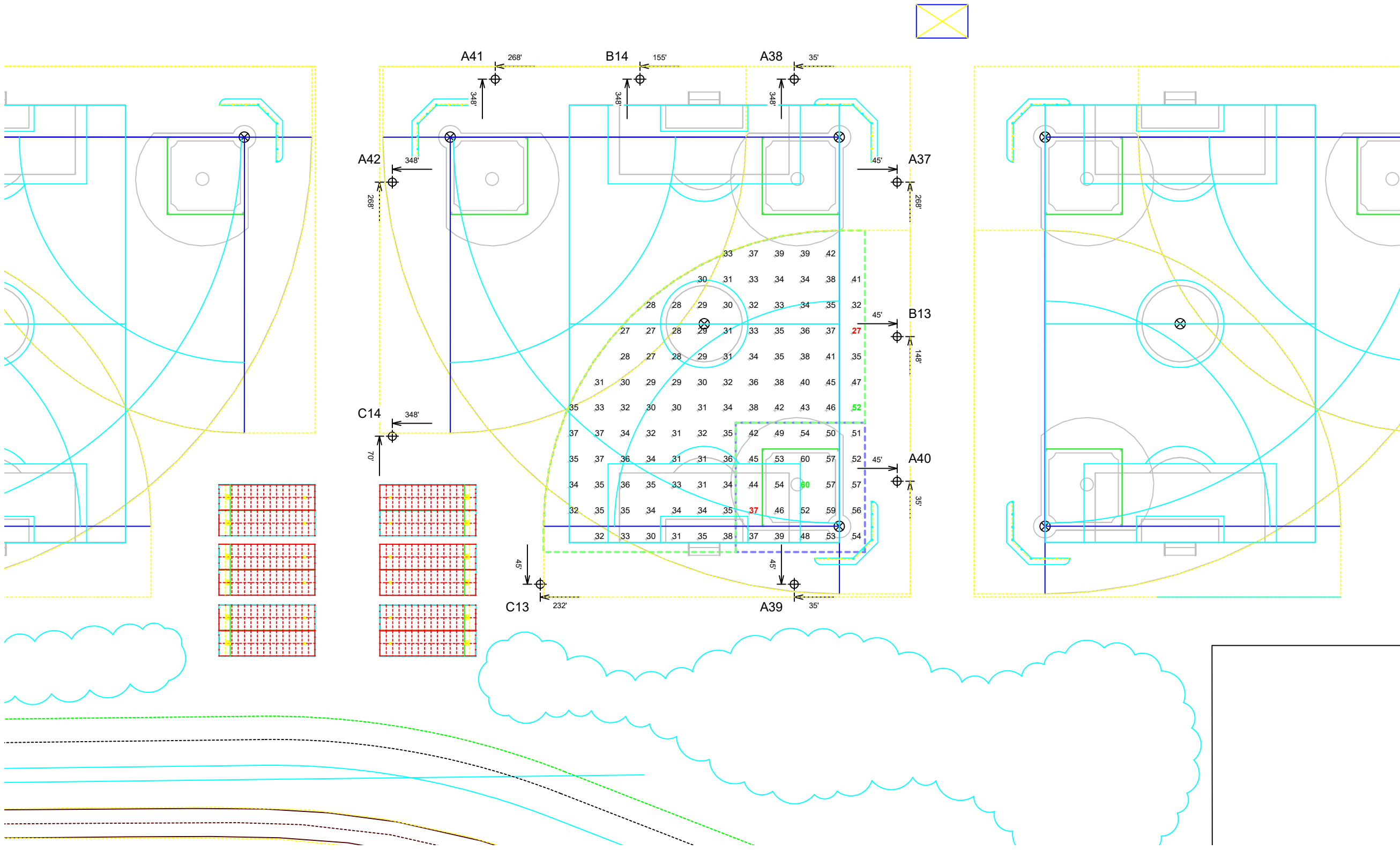
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	G	
No. of Luminaires	56	
Total Load	53.16 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 7 - LL2**
 Size 230'/230'/230' - 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	50.85	33.79
Maximum	61	52
Minimum	37	27
Avg/Min	1.36	1.24
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.90
UG (adjacent pts)	1.26	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	G	
No. of Luminaires	56	
Total Load	53.16 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.

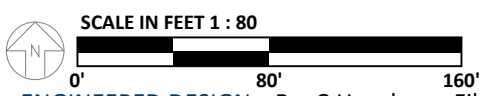
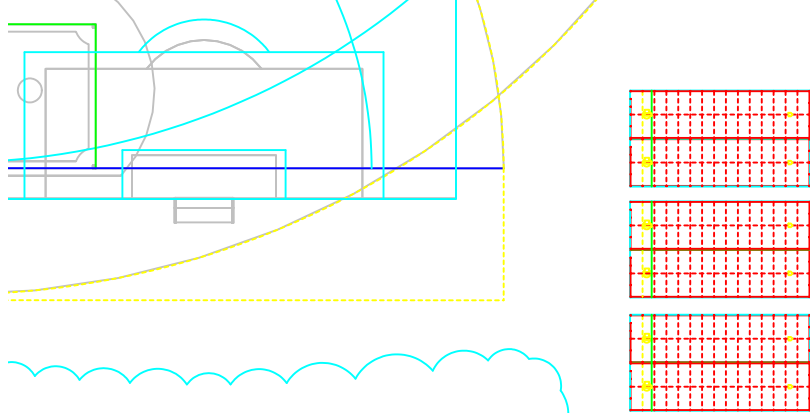
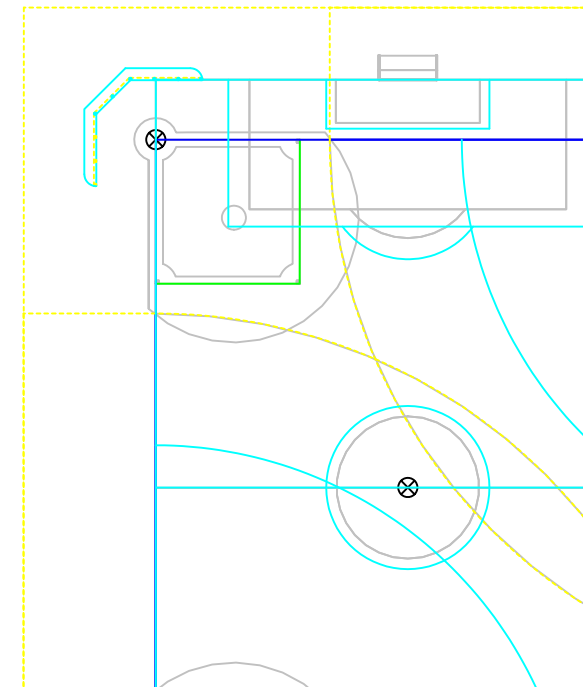
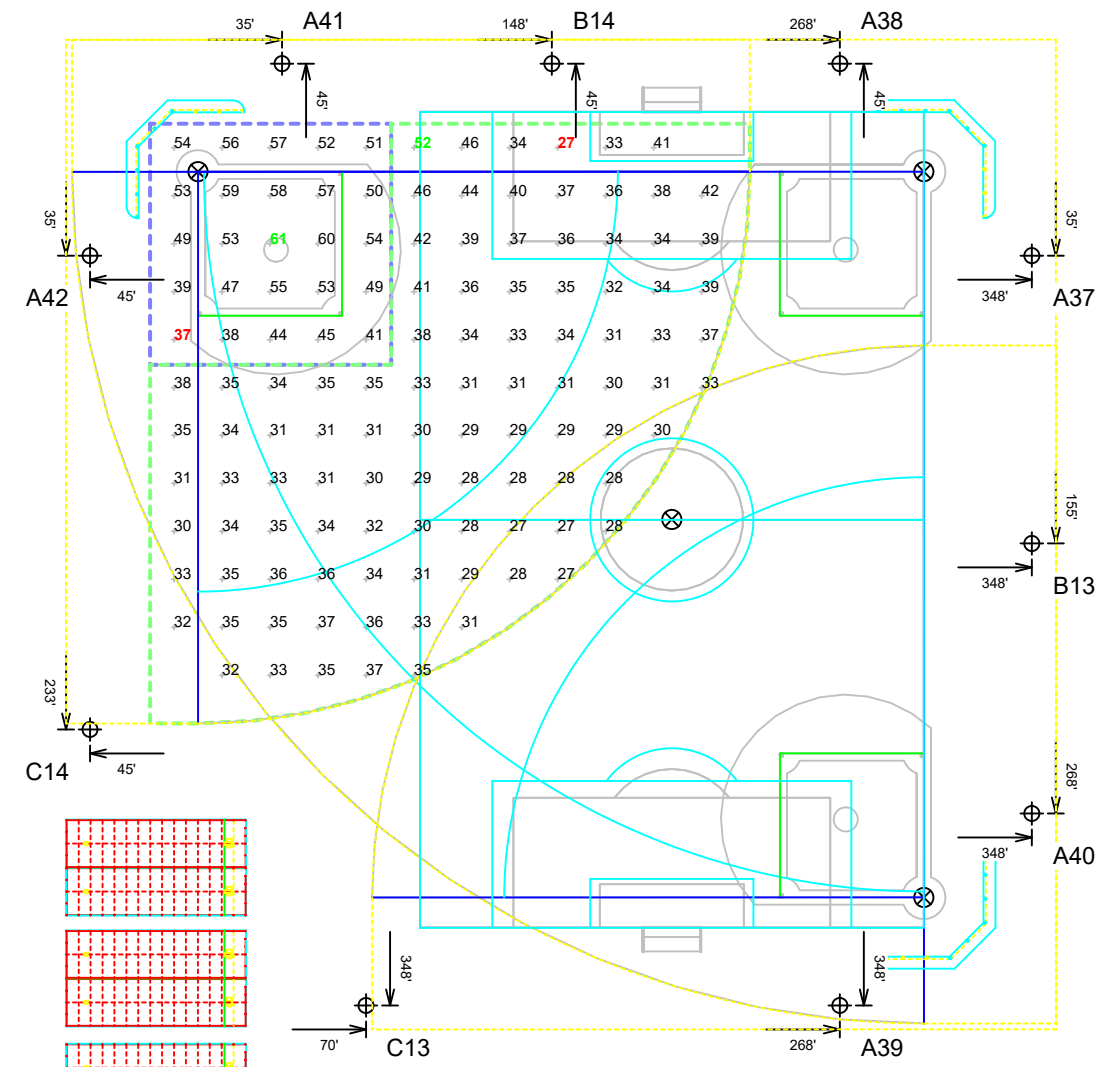
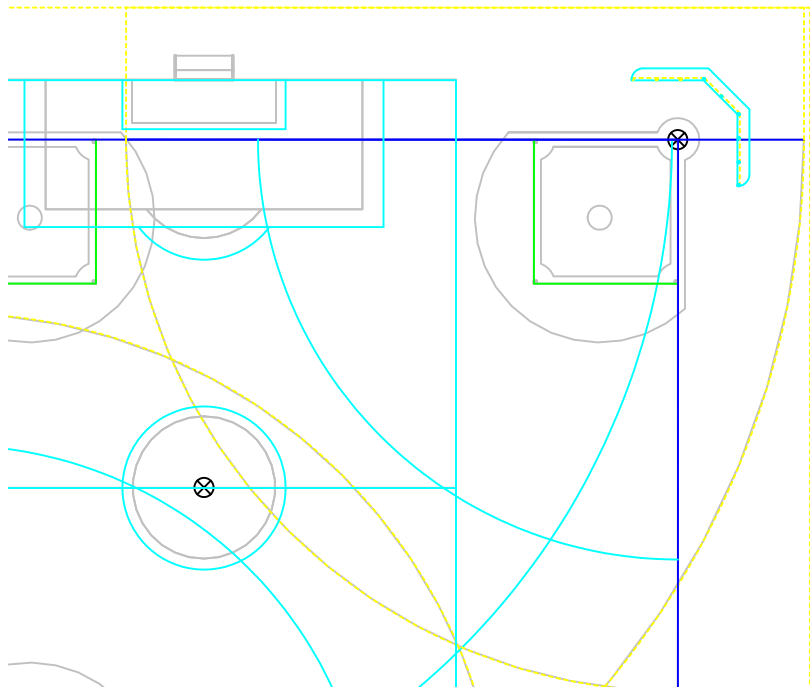
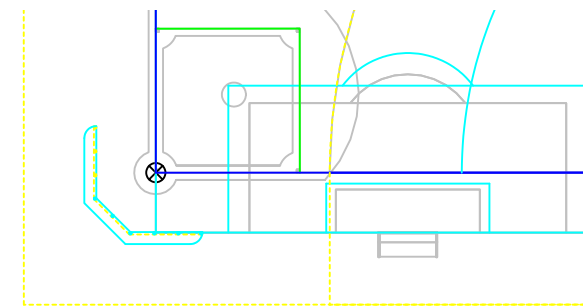
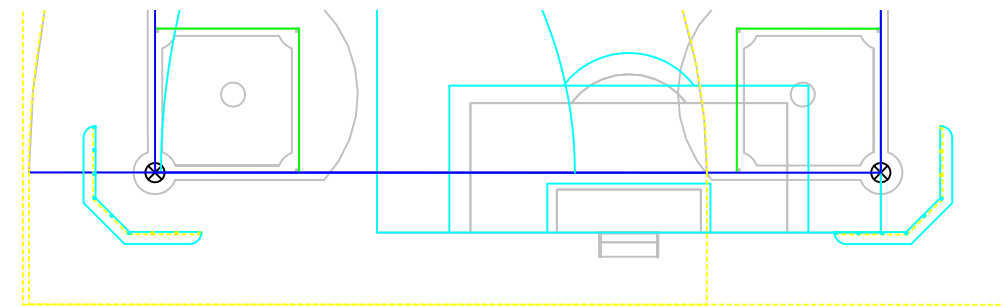
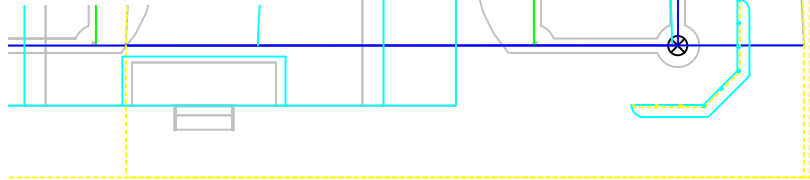
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A37-A42	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B13-B14	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C13-C14	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 7 - Soccer**
 Size 340' 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	37.99
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.23
UG (adjacent pts)	1.35
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	G
No. of Luminaires	56
Total Load	53.16 kW

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

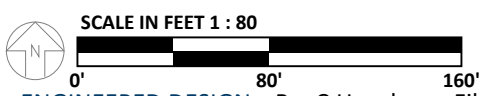
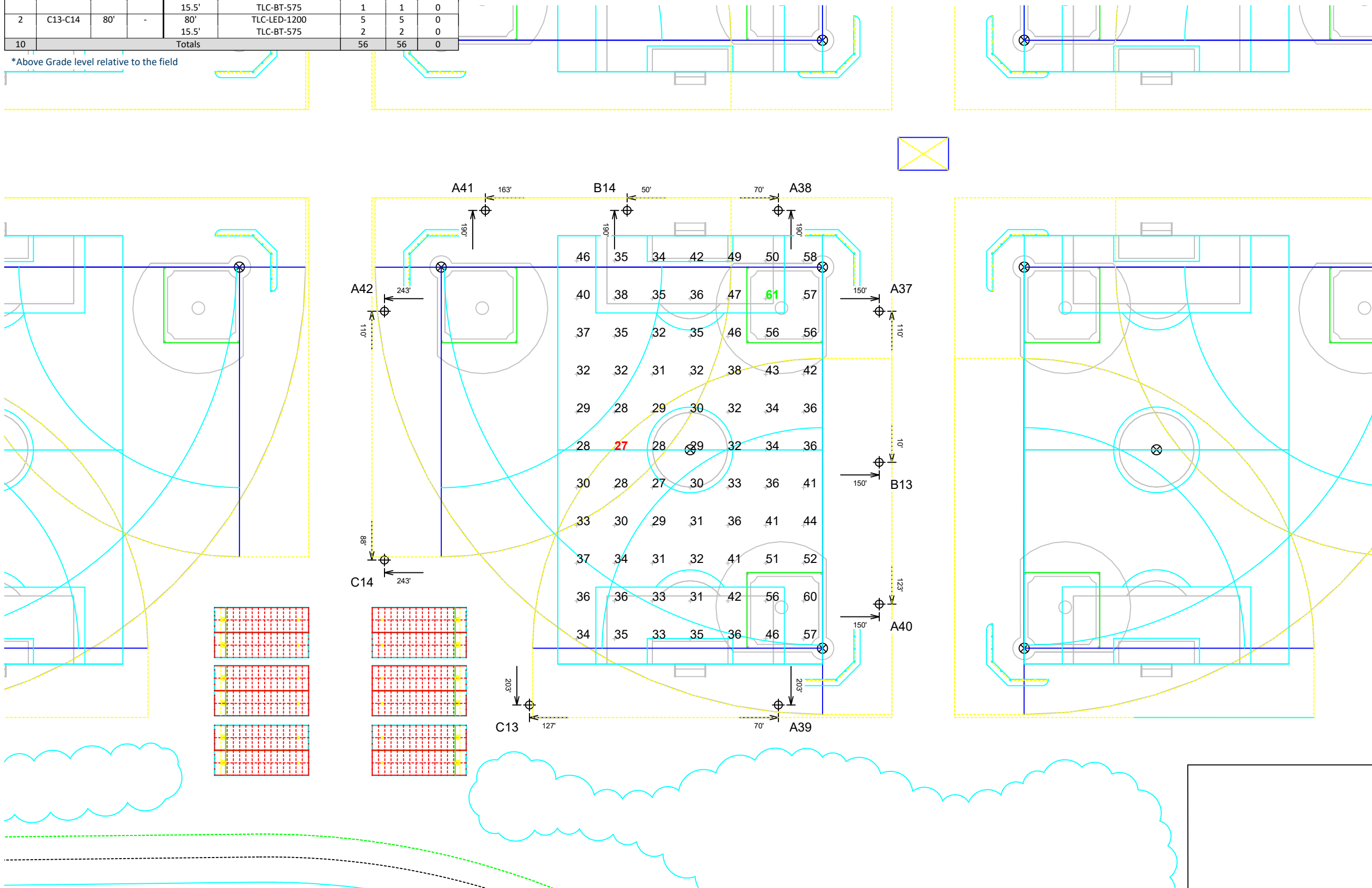
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A37-A42	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B13-B14	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C13-C14	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 8
Size	355'/355'/355' - 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	52.99	37.63
Maximum	63	62
Minimum	44	27
Avg/Min	1.20	1.38
Guaranteed Max/Min	2	2.5
Max/Min	1.43	2.27
UG (adjacent pts)	1.18	1.38
CU	0.69	
No. of Points	25	249
LUMINAIRE INFORMATION		
Applied Circuits	H	
No. of Luminaires	56	
Total Load	53.16 kW	

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

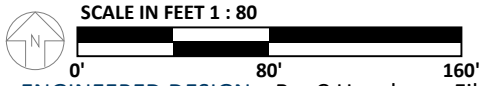
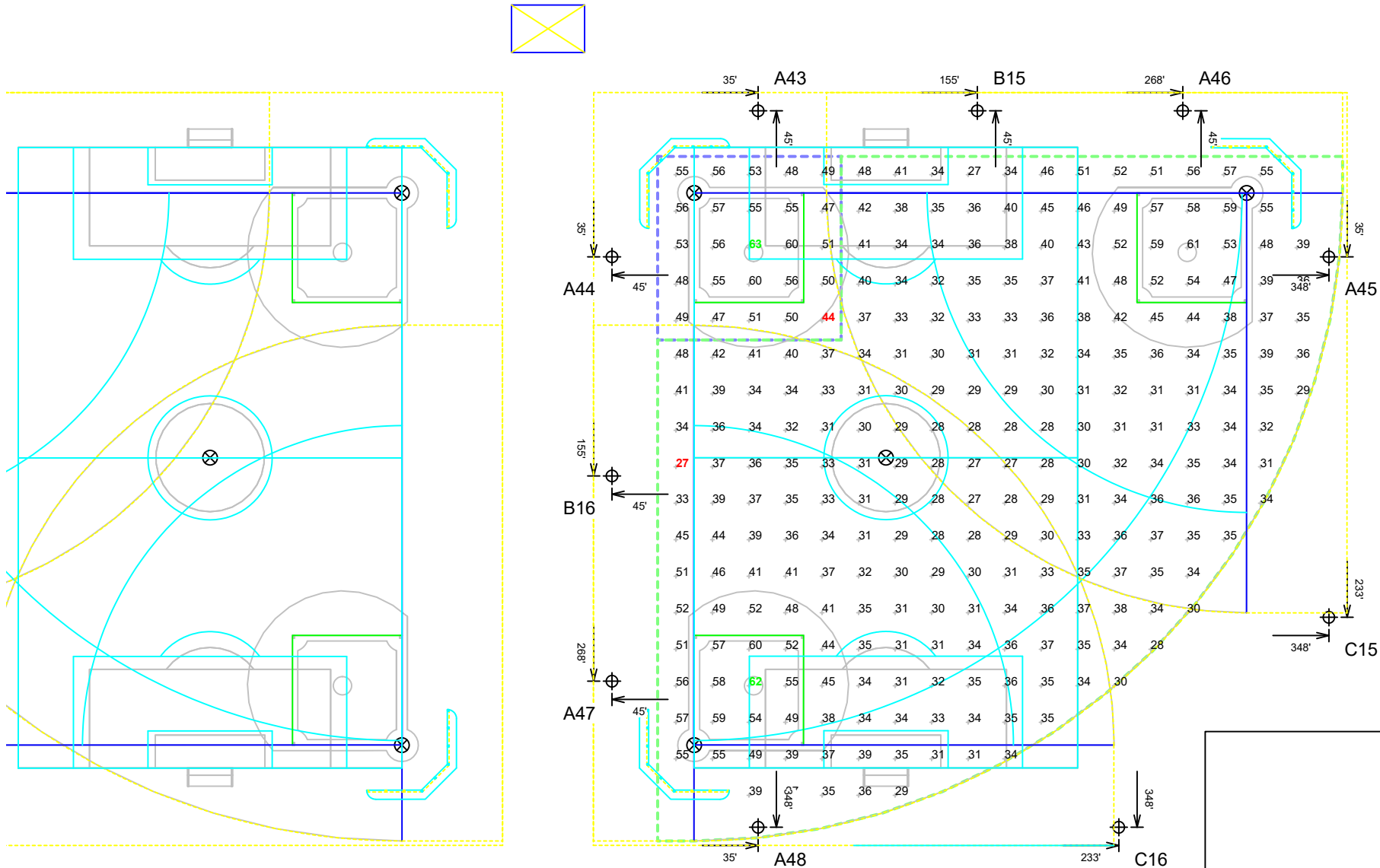
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A43-A48	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B15-B16	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C15-C16	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



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



Ontario Sports Complex

Ontario, CA

Grid Summary

Name Baseball 8 - LL1
Size 230'/230'/230' - 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	50.58	34.06
Maximum	60	52
Minimum	37	27
Avg/Min	1.37	1.25
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.89
UG (adjacent pts)	1.25	1.33
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	H	
No. of Luminaires	56	
Total Load	53.16 kW	

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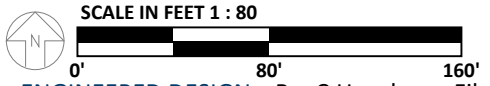
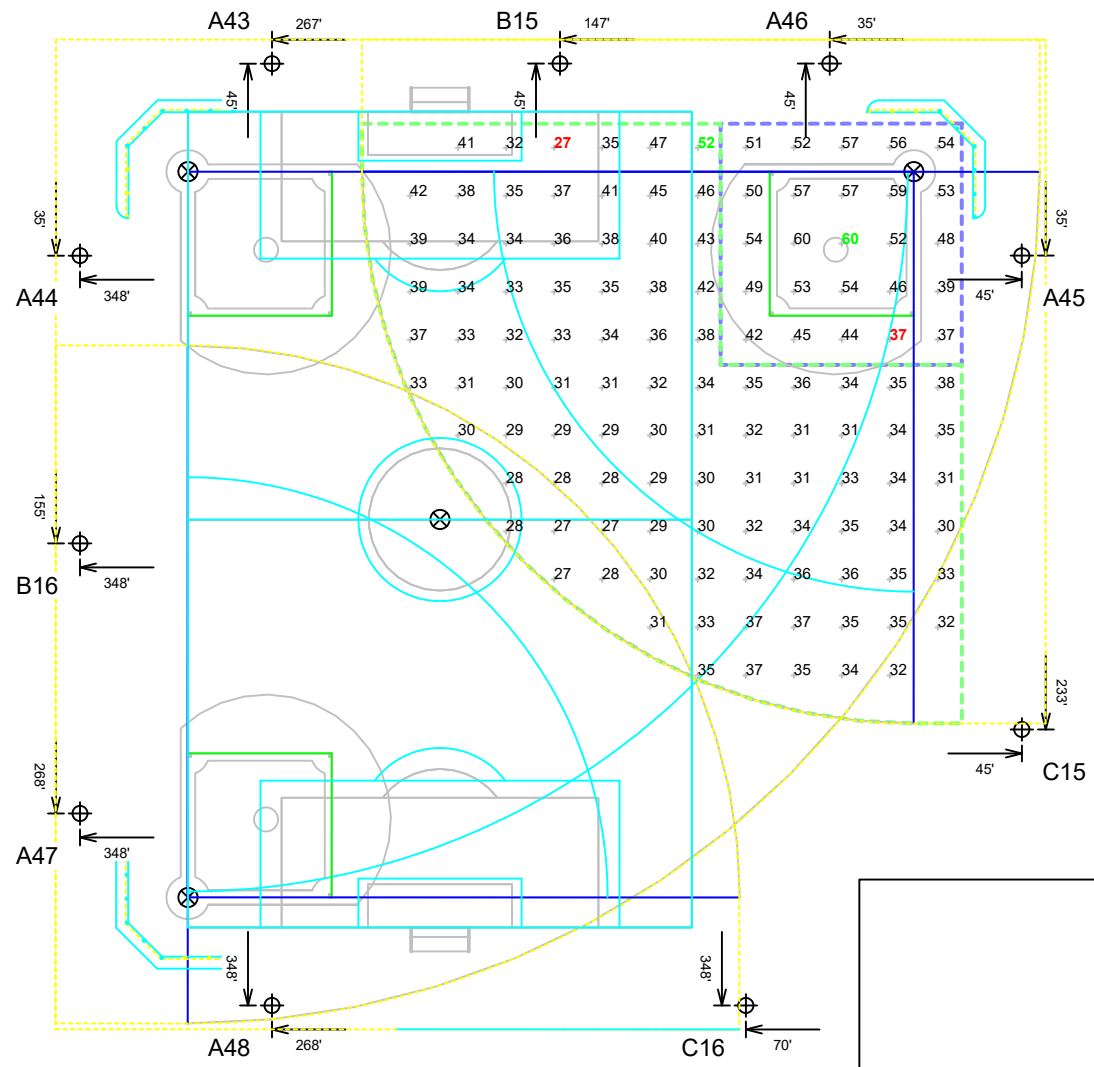
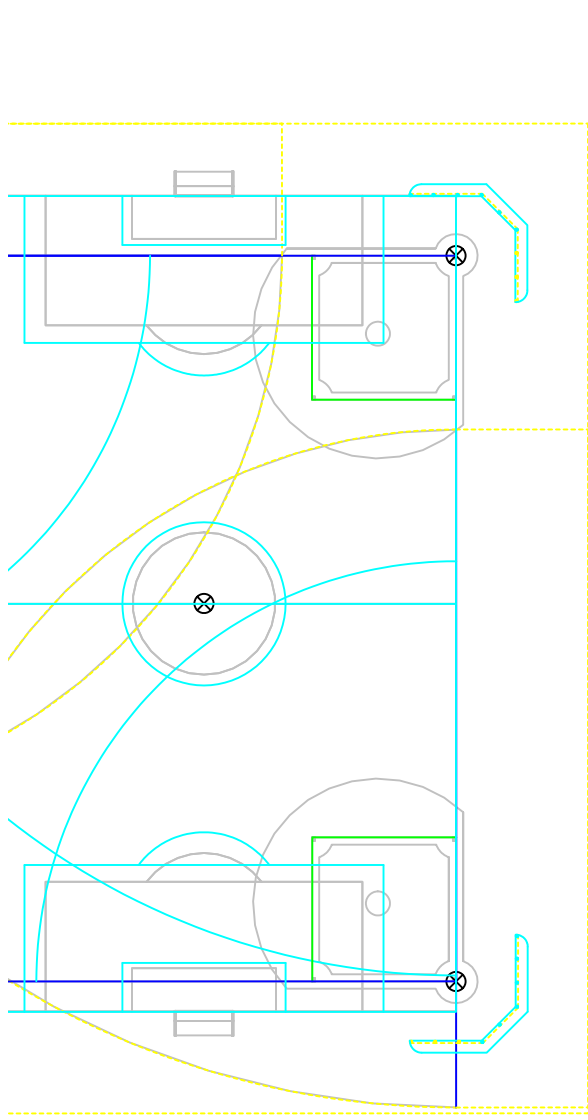
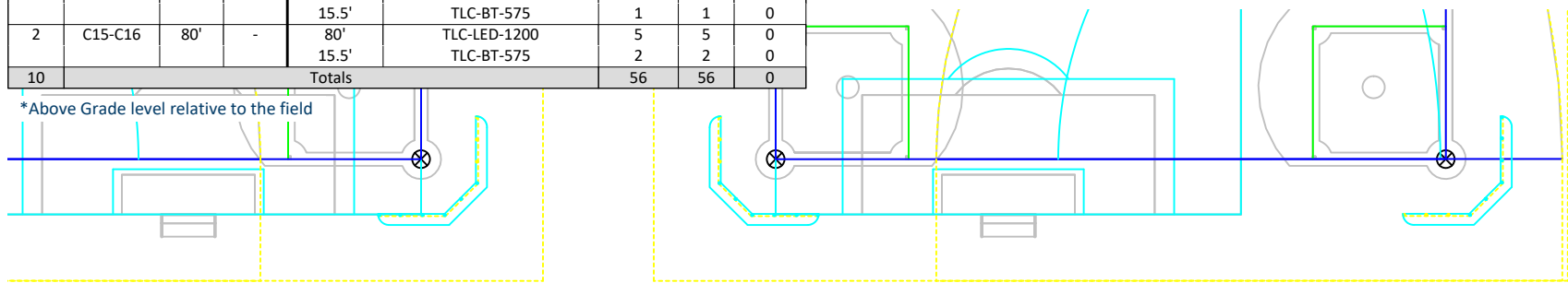
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A43-A48	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B15-B16	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C15-C16	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



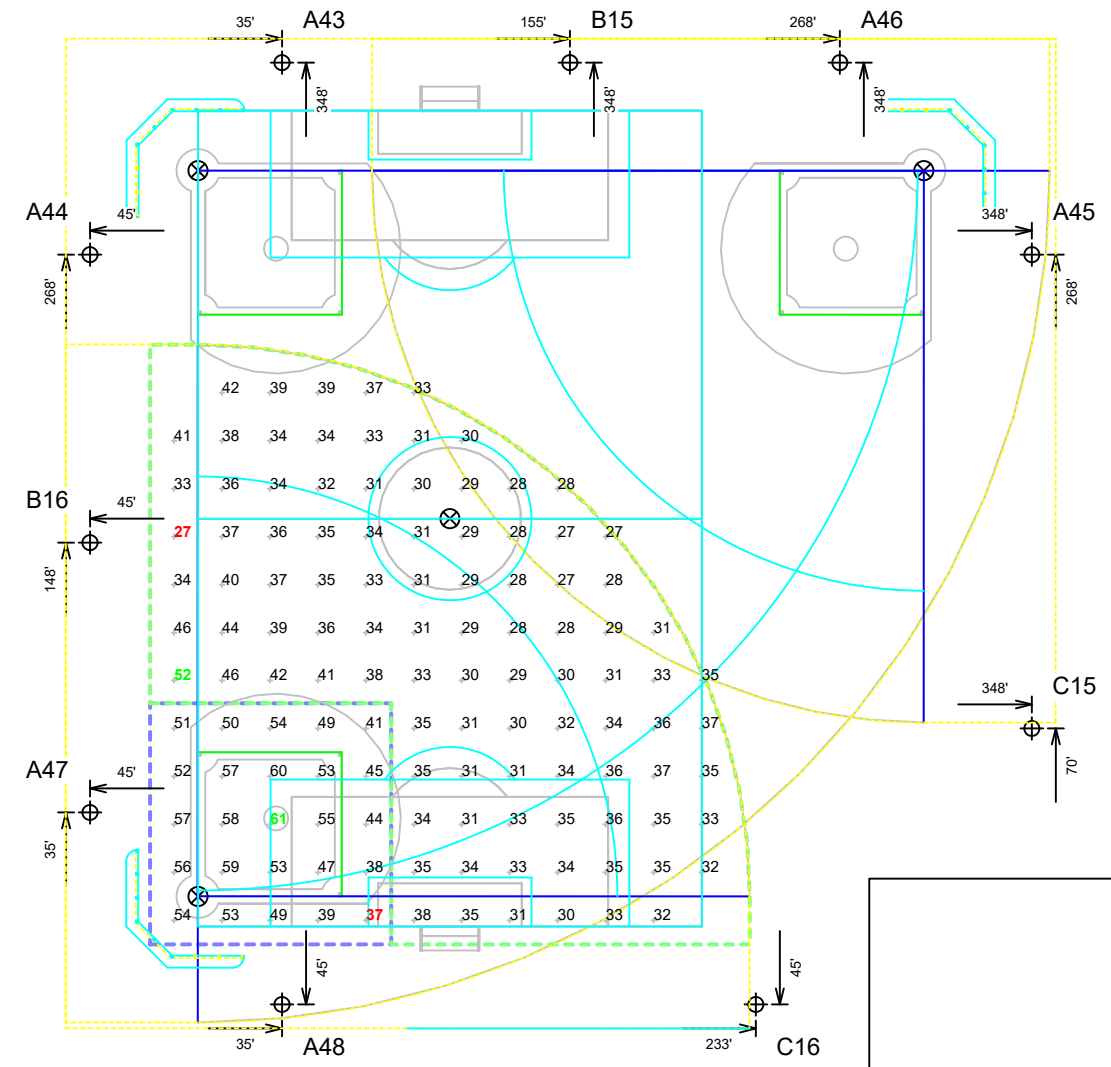
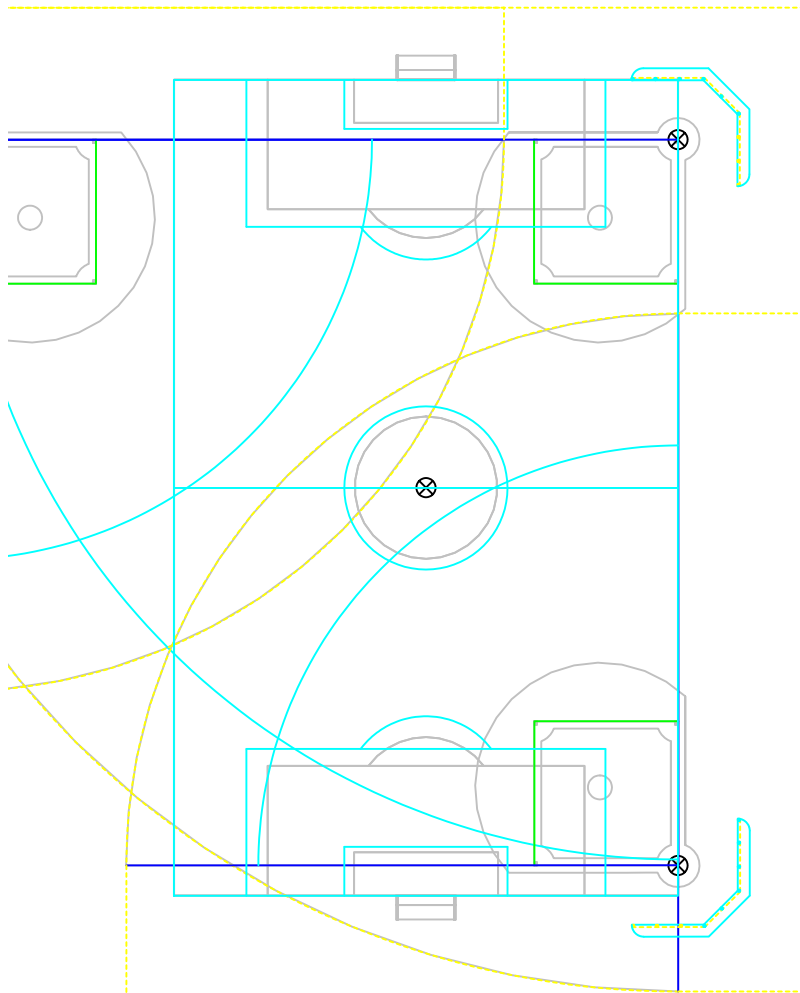
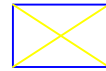
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A43-A48	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B15-B16	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C15-C16	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 8 - LL2
Size	230'/230'/230' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

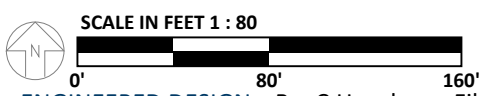
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	50.85	33.79
Maximum	61	52
Minimum	37	27
Avg/Min	1.36	1.24
Guaranteed Max/Min	2	2.5
Max/Min	1.64	1.90
UG (adjacent pts)	1.26	1.37
CU	0.29	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	H	
No. of Luminaires	56	
Total Load	53.16 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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Baseball • 27-Feb-24

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



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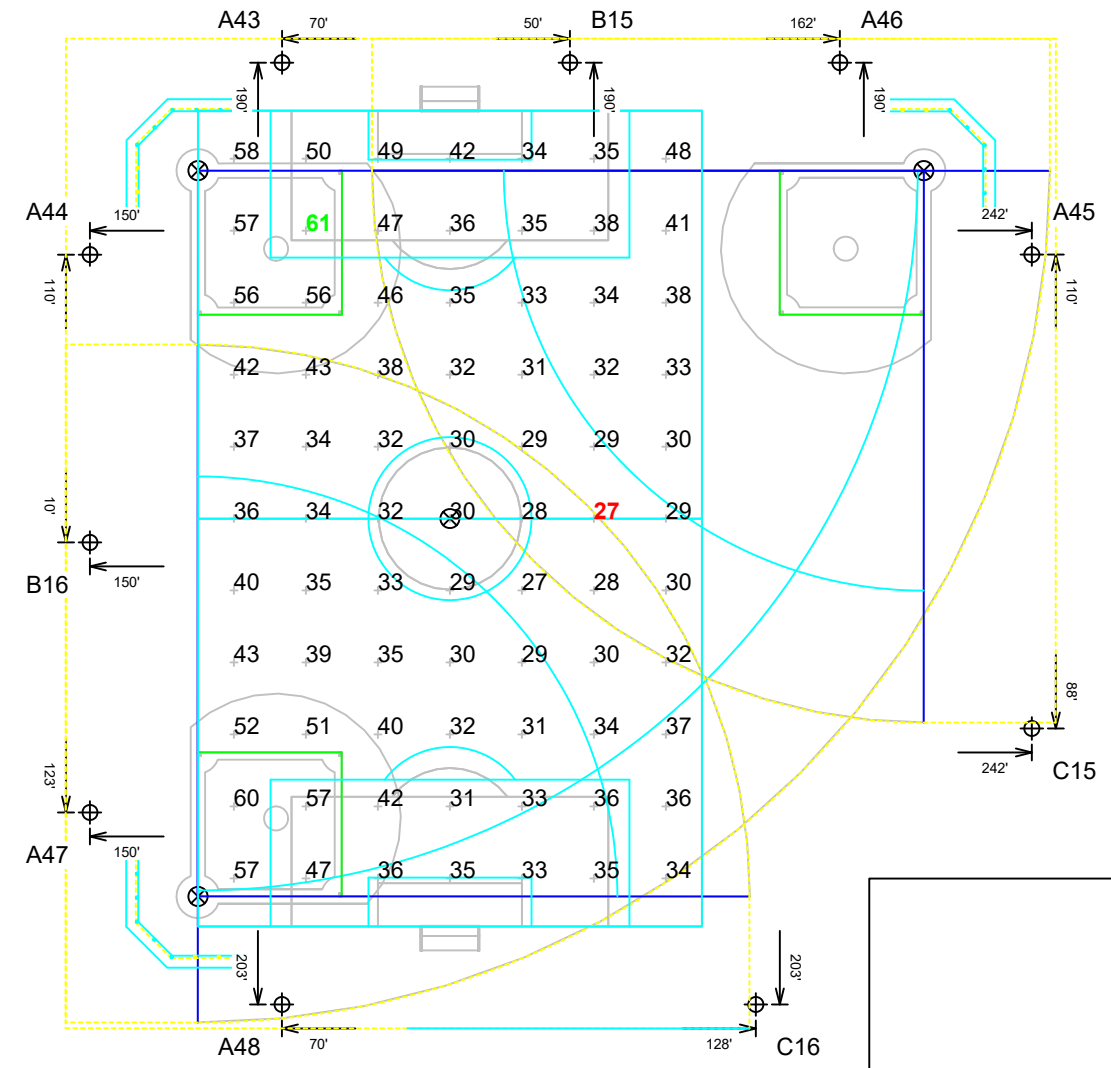
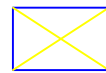
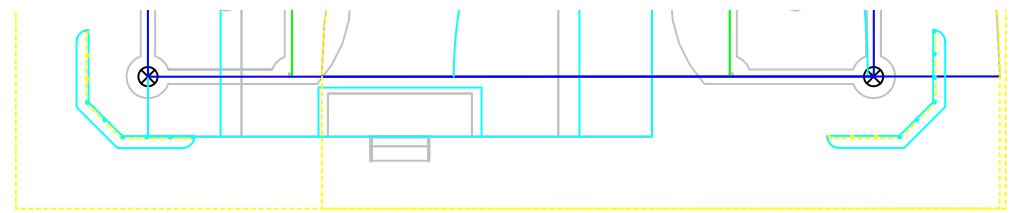
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	A43-A48	60'	-	60'	TLC-LED-900	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B15-B16	80'	-	80'	TLC-LED-1200	8	8	0
				15.5'	TLC-BT-575	1	1	0
2	C15-C16	80'	-	80'	TLC-LED-1200	5	5	0
				15.5'	TLC-BT-575	2	2	0
10	Totals					56	56	0

*Above Grade level relative to the field



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Baseball 8 - Soccer
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

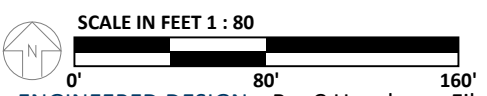
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average	30
Scan Average	37.97
Maximum	61
Minimum	27
Avg/Min	1.39
Guaranteed Max/Min	2.5
Max/Min	2.24
UG (adjacent pts)	1.36
CU	0.42
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	H
No. of Luminaires	56
Total Load	53.16 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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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name **Baseball 9**
 Size 230'/230'/230' - 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	51.42	32.48
Maximum	63	42
Minimum	41	22
Avg/Min	1.26	1.51
Guaranteed Max/Min	2	2.5
Max/Min	1.55	1.96
UG (adjacent pts)	1.25	1.39
CU	0.64	
No. of Points	25	98
LUMINAIRE INFORMATION		
Applied Circuits	1	
No. of Luminaires	24	
Total Load	23.35 kW	

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

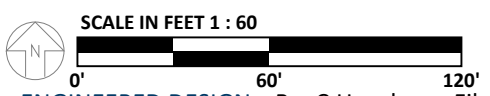
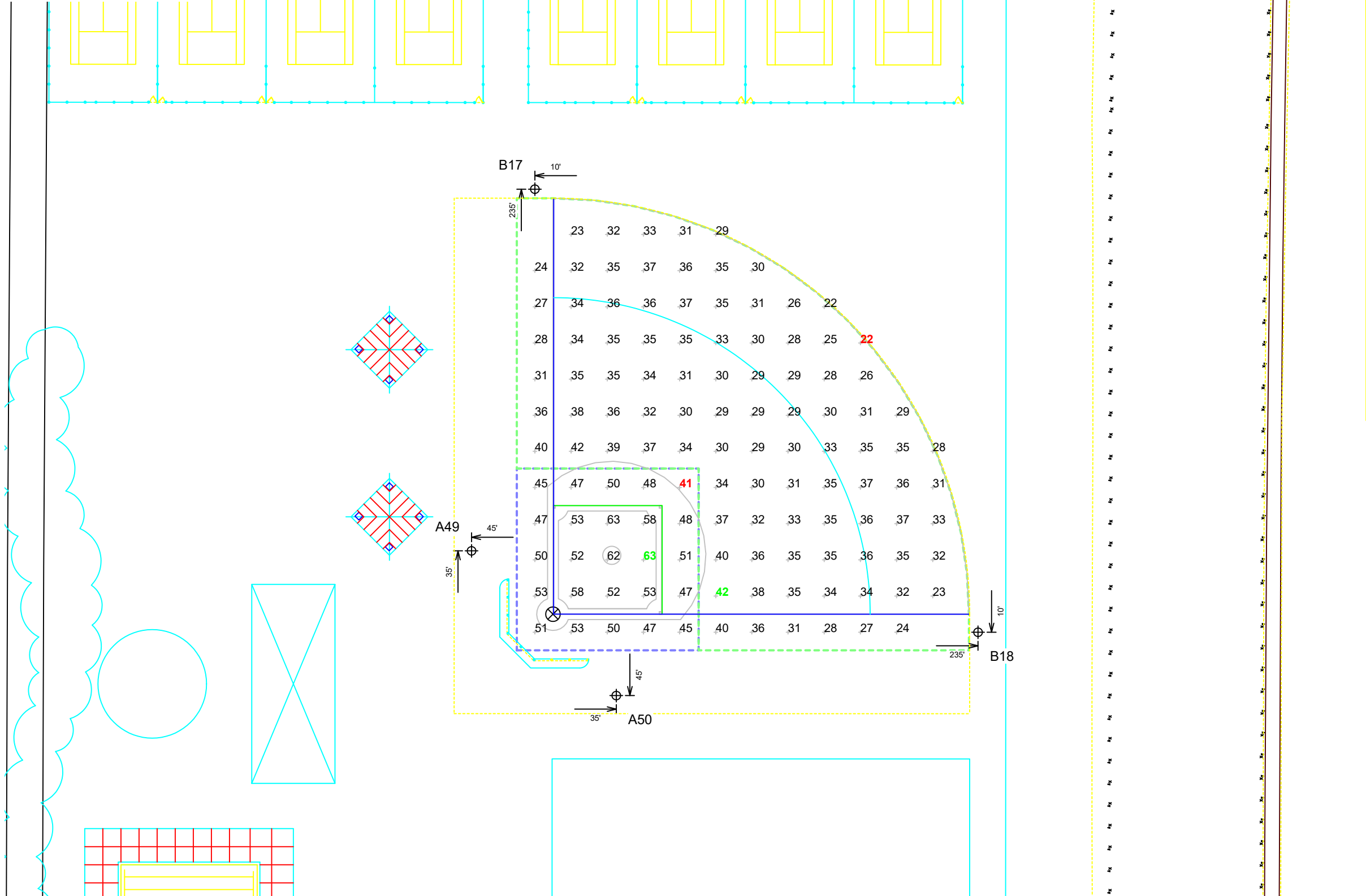
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

Equipment List For Areas Shown				Luminaires				
Pole								
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A49-A50	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
2	B17-B18	80'	-	80'	TLC-LED-1200	6	6	0
				15.5'	TLC-BT-575	2	2	0
4	Totals					24	24	0

*Above Grade level relative to the field



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Equipment Layout

INCLUDES:

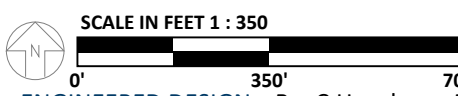
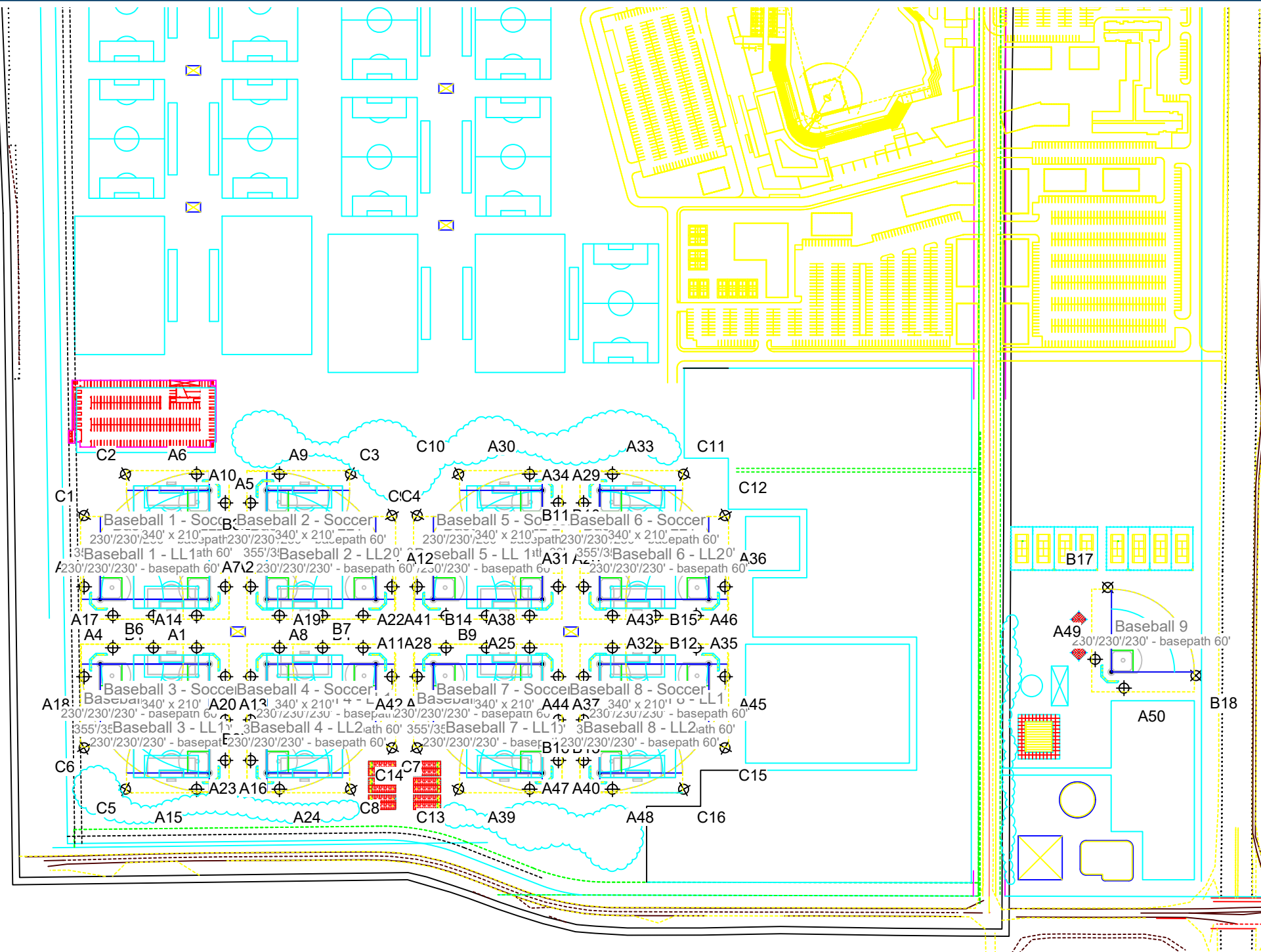
- Baseball 1
- Baseball 1 - LL1
- Baseball 1 - LL2
- Baseball 1 - Soccer
- Baseball 2
- Baseball 2 - LL1
- Baseball 2 - LL2
- Baseball 2 - Soccer
- Baseball 3
- Baseball 3 - LL1
- Baseball 3 - LL2
- Baseball 3 - Soccer
- Baseball 4
- Baseball 4 - LL1
- Baseball 4 - LL2
- Baseball 4 - Soccer
- Baseball 5
- Baseball 5 - LL 1
- Baseball 5 - LL 2
- Baseball 5 - Soccer
- Baseball 6
- Baseball 6 - LL1
- Baseball 6 - LL2
- Baseball 6 - Soccer
- Baseball 7
- Baseball 7 - LL1
- Baseball 7 - LL2
- Baseball 7 - Soccer
- Baseball 8
- Baseball 8 - LL1
- Baseball 8 - LL2
- Baseball 8 - Soccer
- Baseball 9

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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
36	A1-A6 A13-A24 A31-A48	60'	-	60'	TLC-LED-900	3
12	A7-A12 A25-A30	60'	-	60'	TLC-LED-1200	3
2	A49-A50	60'	-	60'	TLC-LED-1200	1
				60'	TLC-LED-900	2
				15.5'	TLC-BT-575	1
12	B1-B2 B5-B8 B11-B16	80'	-	80'	TLC-LED-1200	8
				15.5'	TLC-BT-575	1
4	B3-B4 B9-B10	80'	-	80'	TLC-LED-1200	3
				80'	TLC-LED-1500	6
				15.5'	TLC-BT-575	2
2	B17-B18	80'	-	80'	TLC-LED-1200	6
				15.5'	TLC-BT-575	2
12	C1-C2 C5-C8 C11-C16	80'	-	80'	TLC-LED-1200	5
				15.5'	TLC-BT-575	2
4	C3-C4 C9-C10	80'	-	80'	TLC-LED-1500	6
				15.5'	TLC-BT-575	3
84	Totals					488



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



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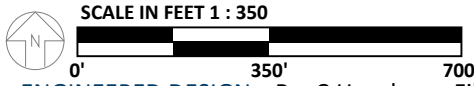
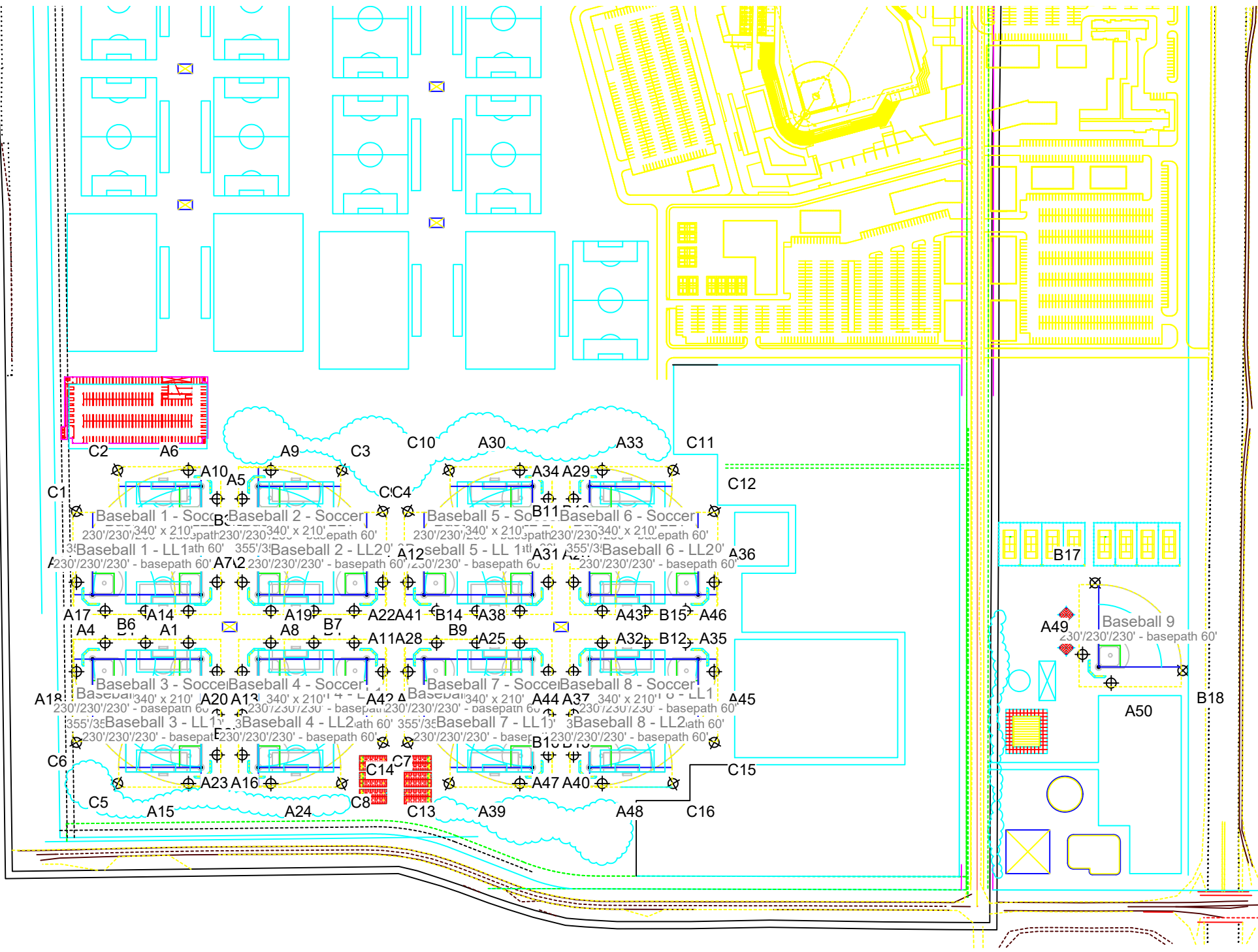
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Ontario Sports Complex

Ontario, CA

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9



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



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Ontario Sports Complex

Ontario, CA

Grid Summary

Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

Illumination Summary

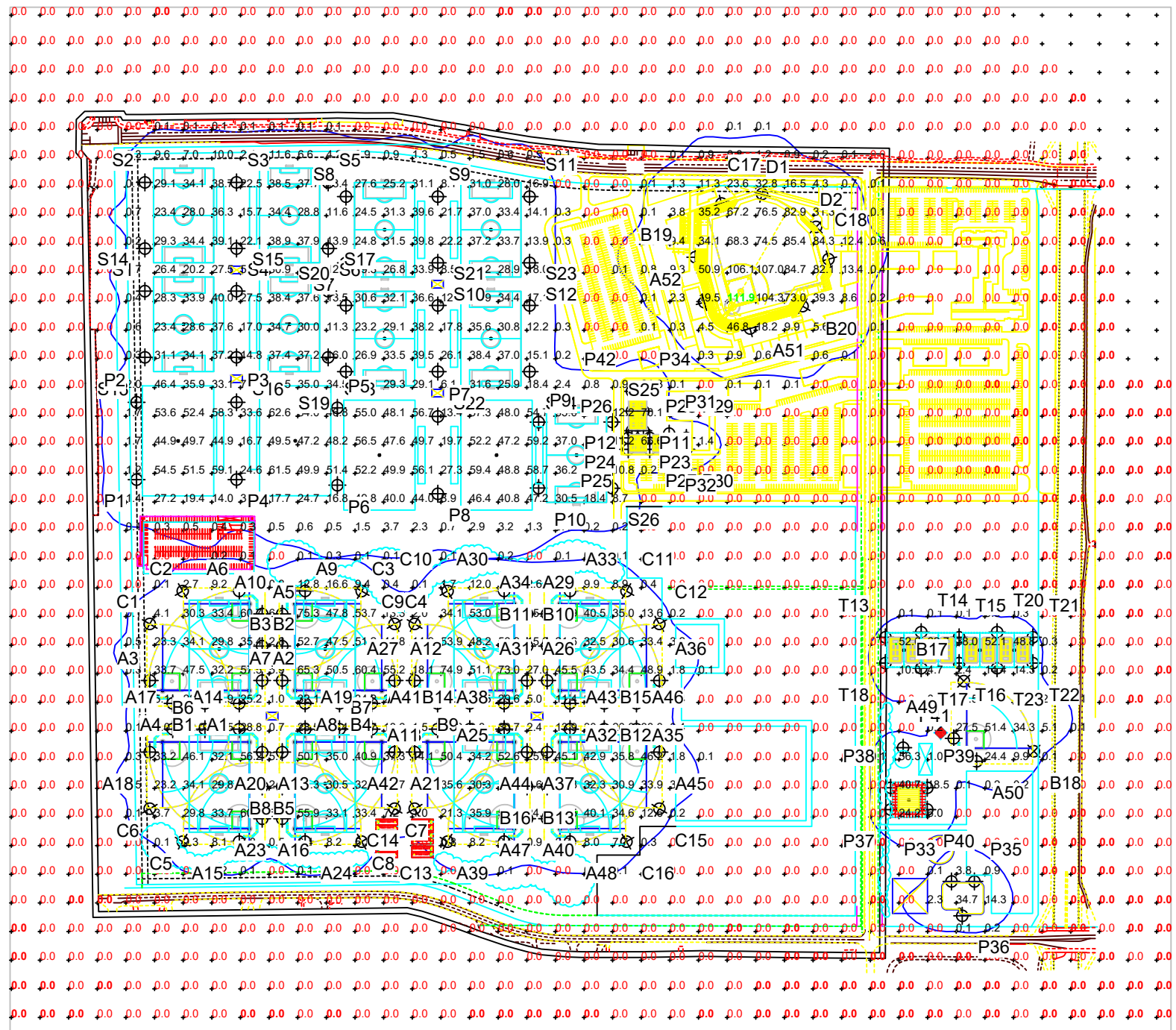
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

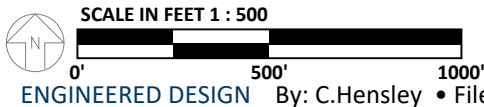
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 shown at 0.3 horizontal Ft.



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



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Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

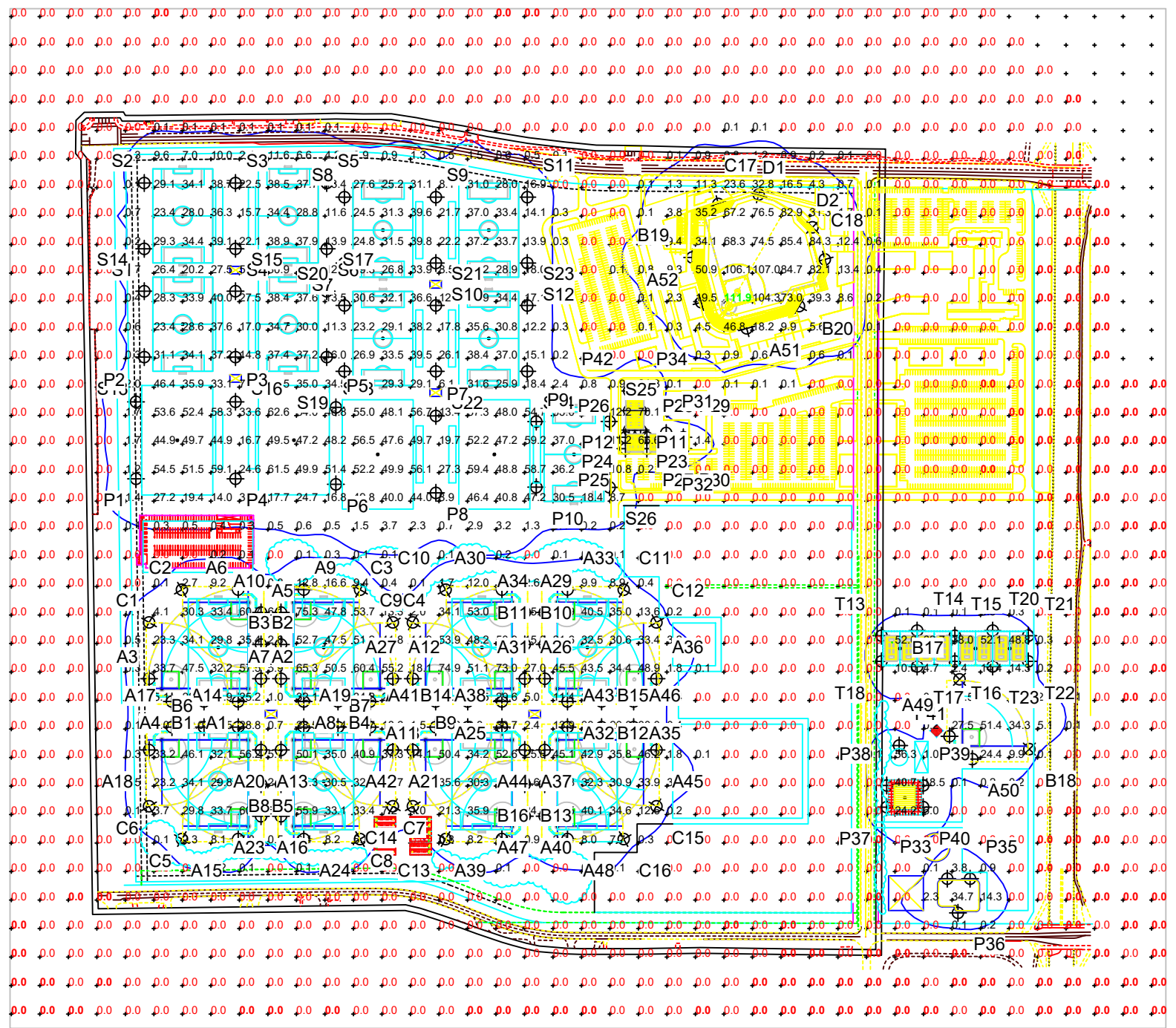
Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 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 shown at 0.5 horizontal Ft.



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

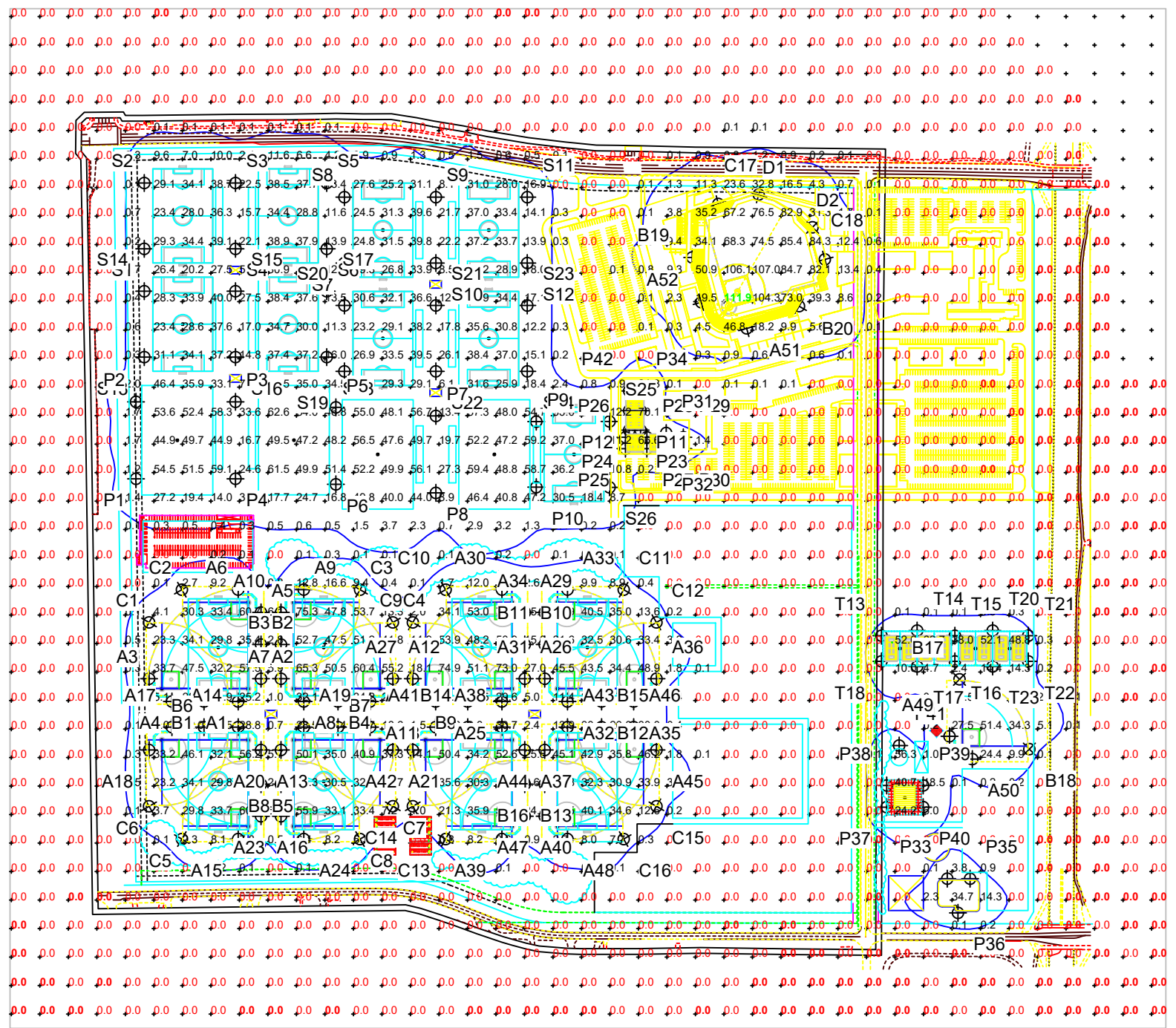
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

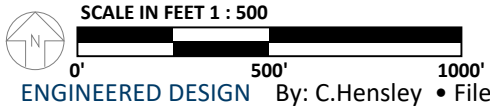
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



NOTES: Contour lines shown at 0.8 horizontal Ft.



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

Illumination Summary

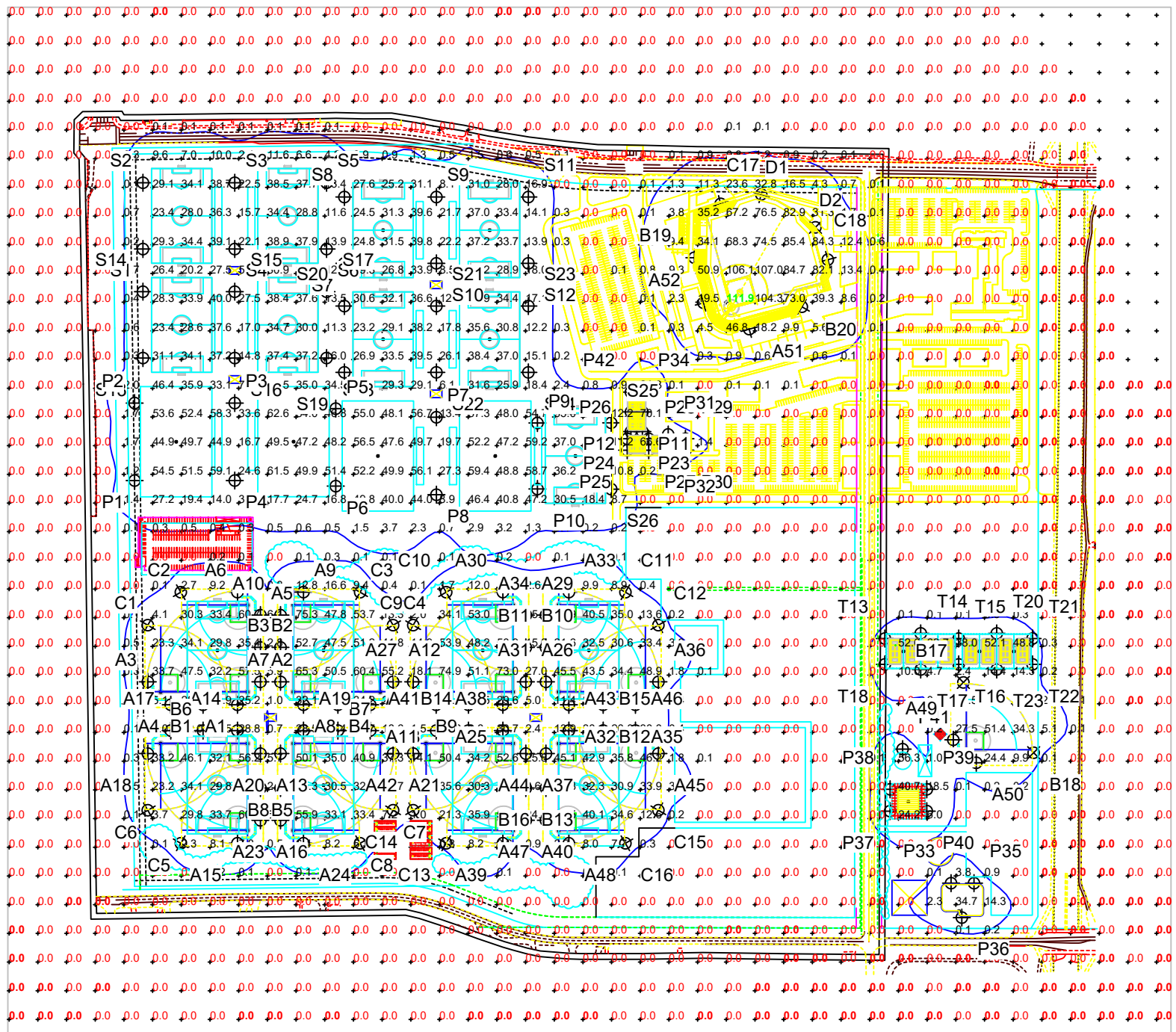
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

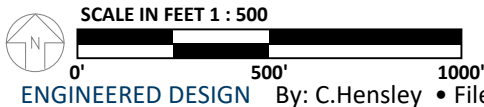
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Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



NOTES: Contour lines shown at 0.9 horizontal Ft.



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

Illumination Summary

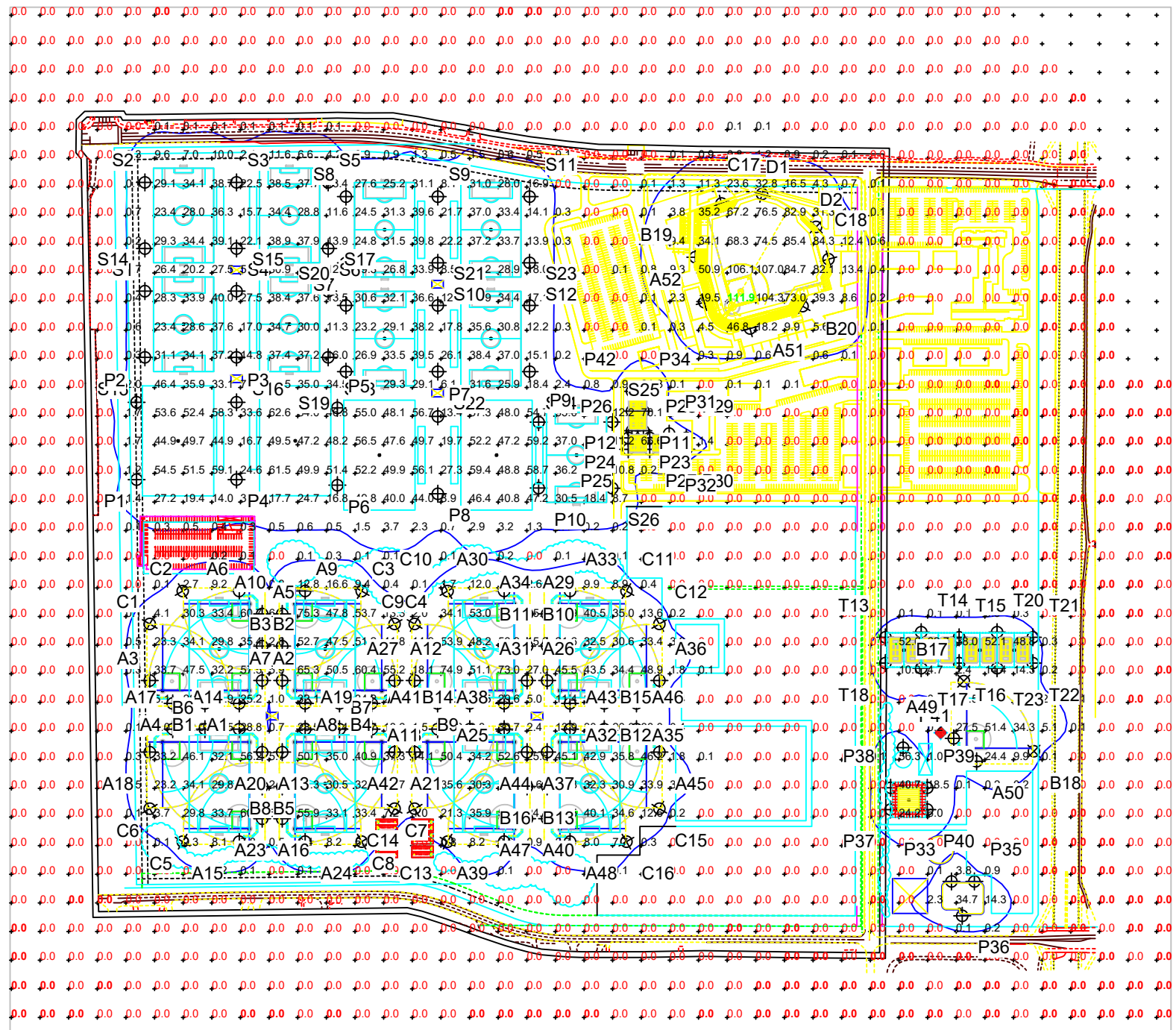
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

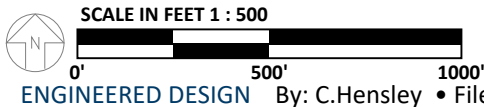
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 shown at 1.0 horizontal Ft.



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	Facility Blanket Grid
Spacing	100.0' x 100.0'
Height	-0.3' above grade

Illumination Summary

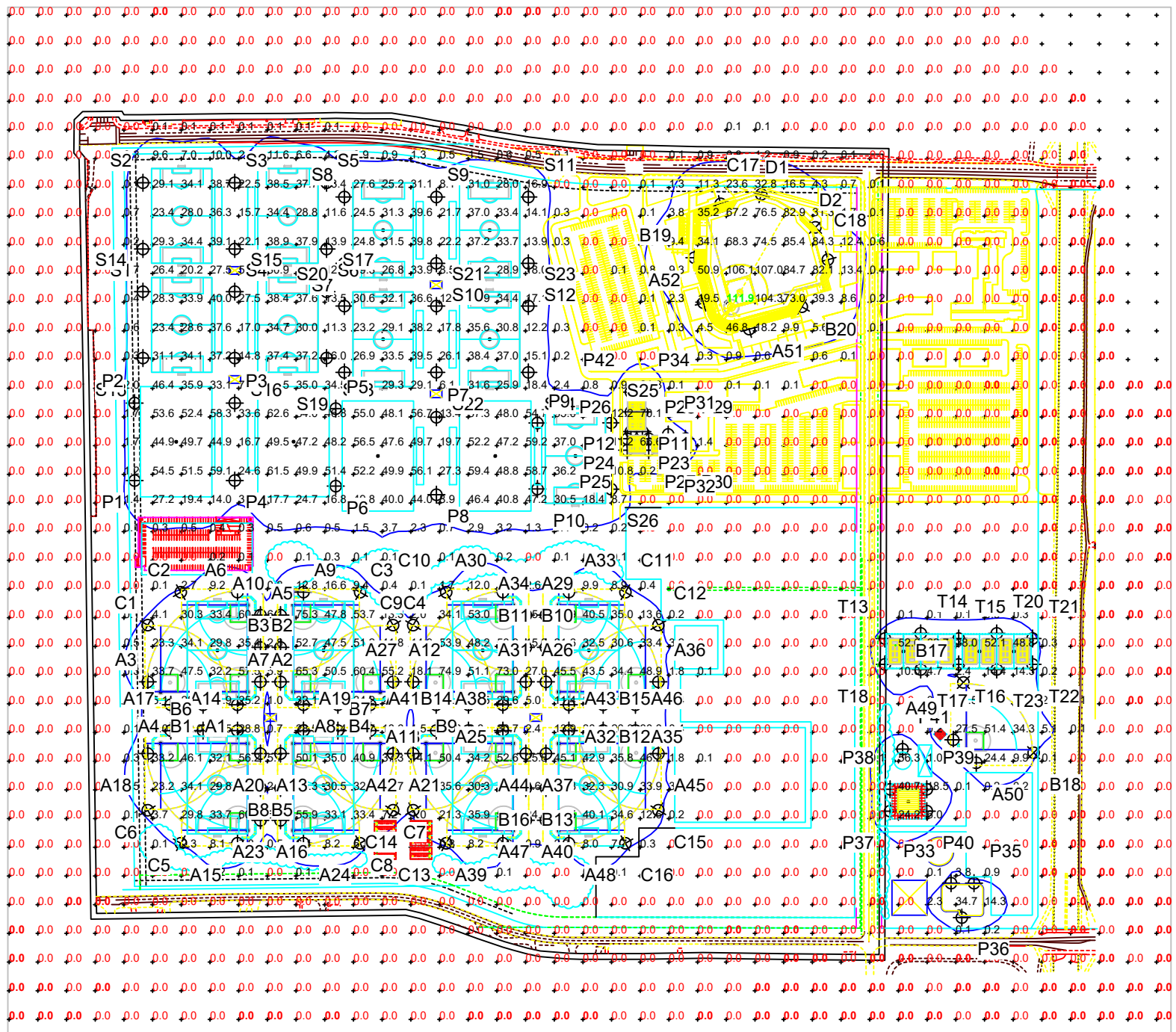
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	9.26
Maximum	112
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	172207.80
CU	0.92
No. of Points	1476
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

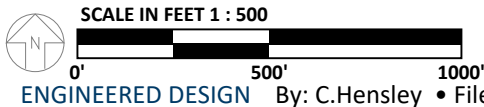
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 shown at 3.0 horizontal Ft.



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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	North Property Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary

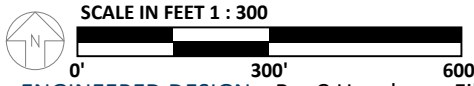
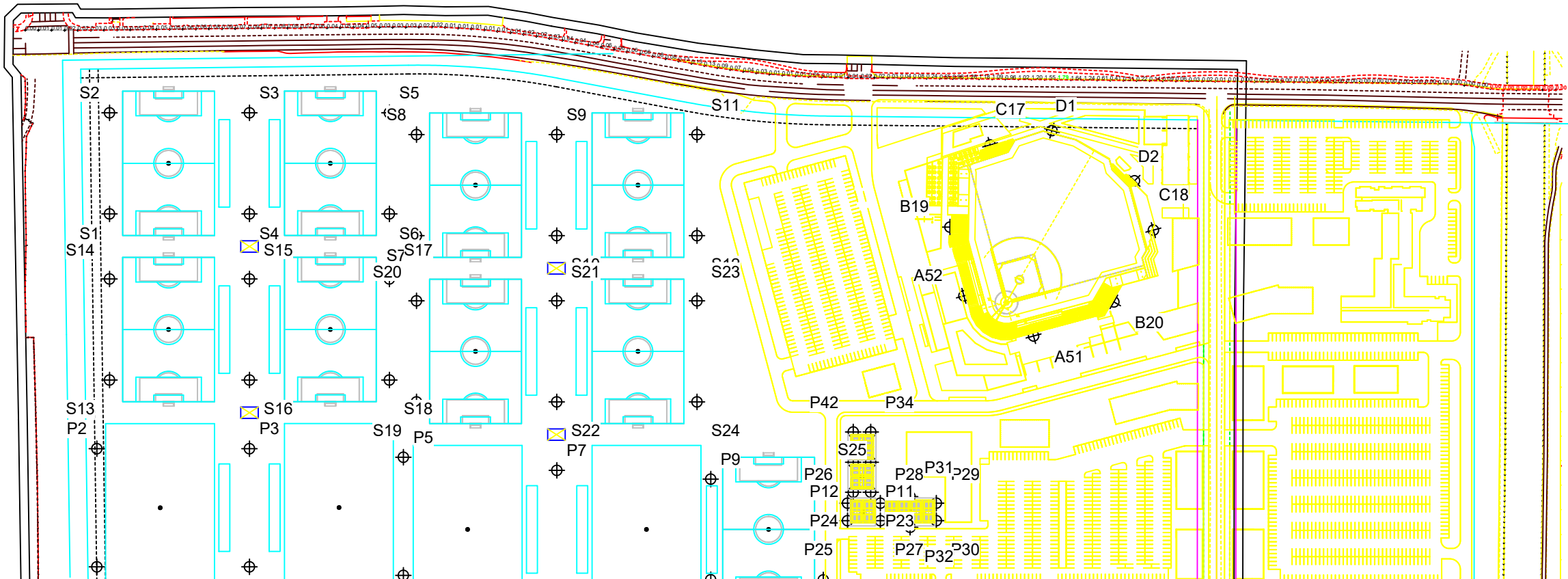
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.17
Maximum	2
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	118
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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



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Ontario Sports Complex

Ontario, CA

Grid Summary

Name	North Property Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary

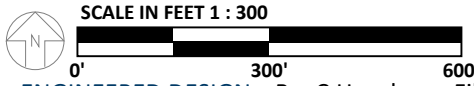
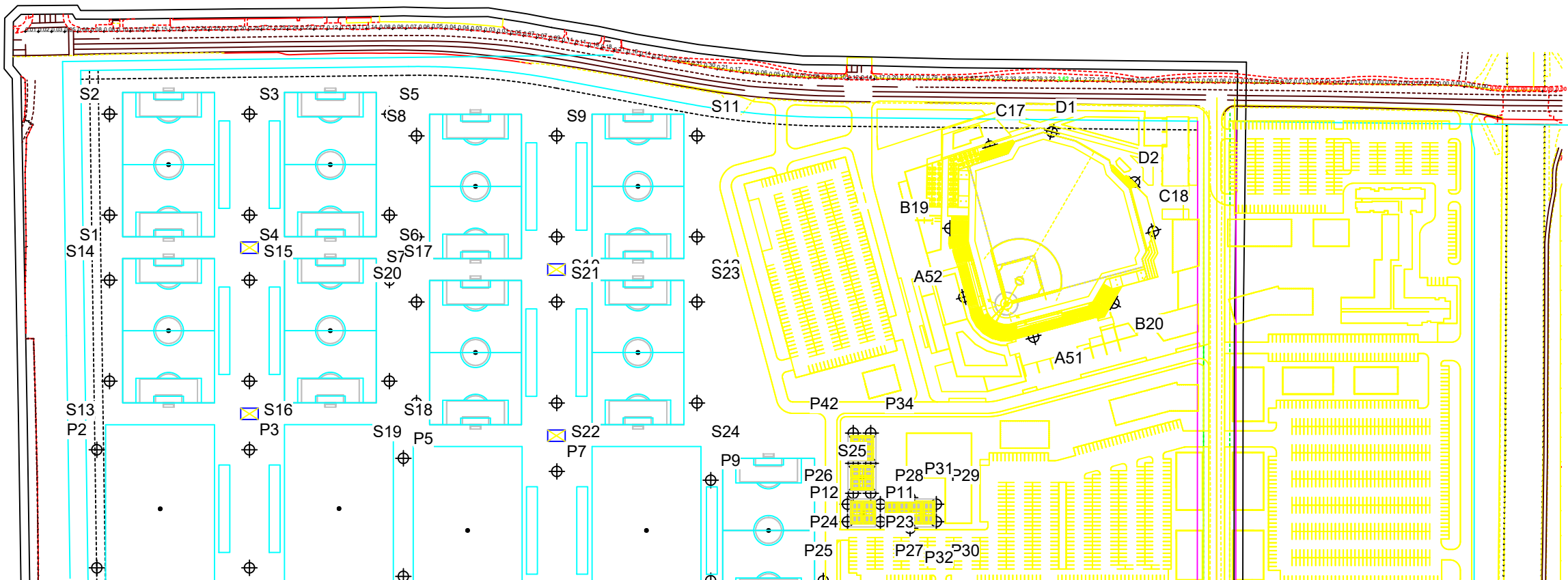
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.41
Maximum	4
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	118
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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



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Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	North Property Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

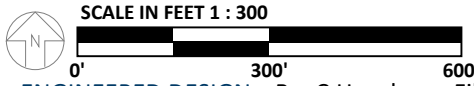
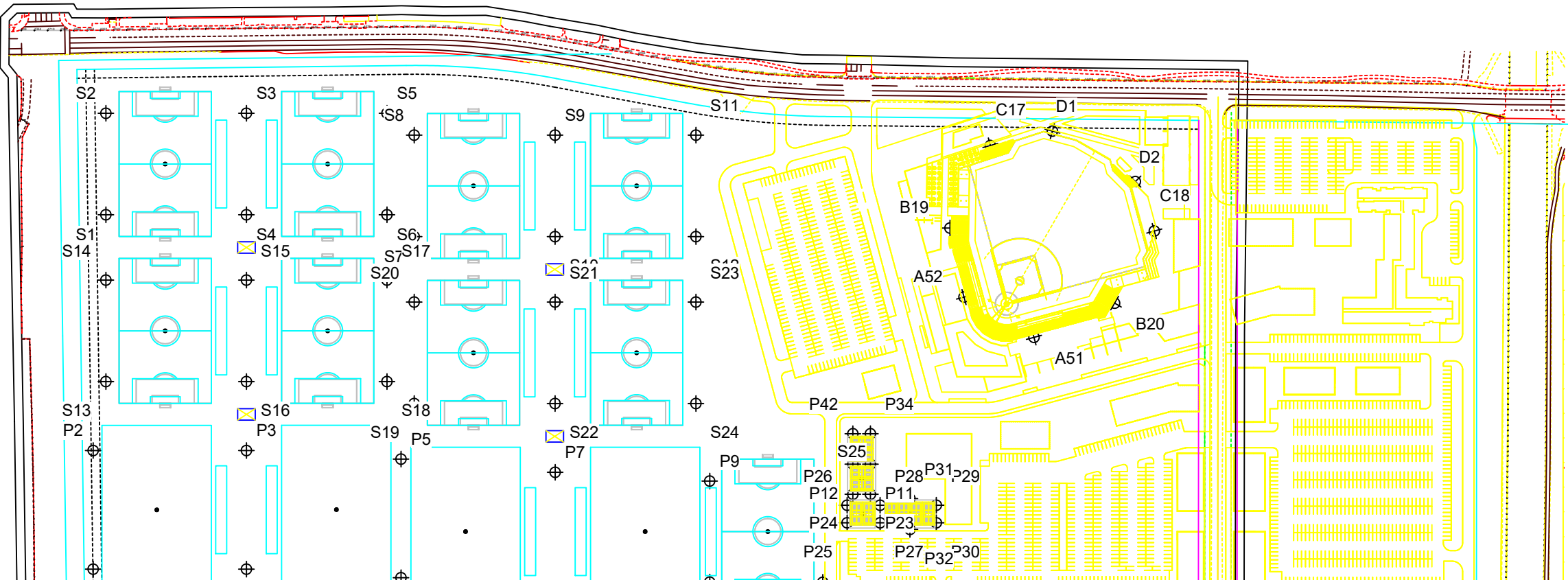
Illumination Summary	
	MAINTAINED MAX CANDELA (PER FIXTURE)
Entire Grid	
Scan Average	13796.00
Maximum	81806
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	118
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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

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



ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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



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Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	East Spill Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

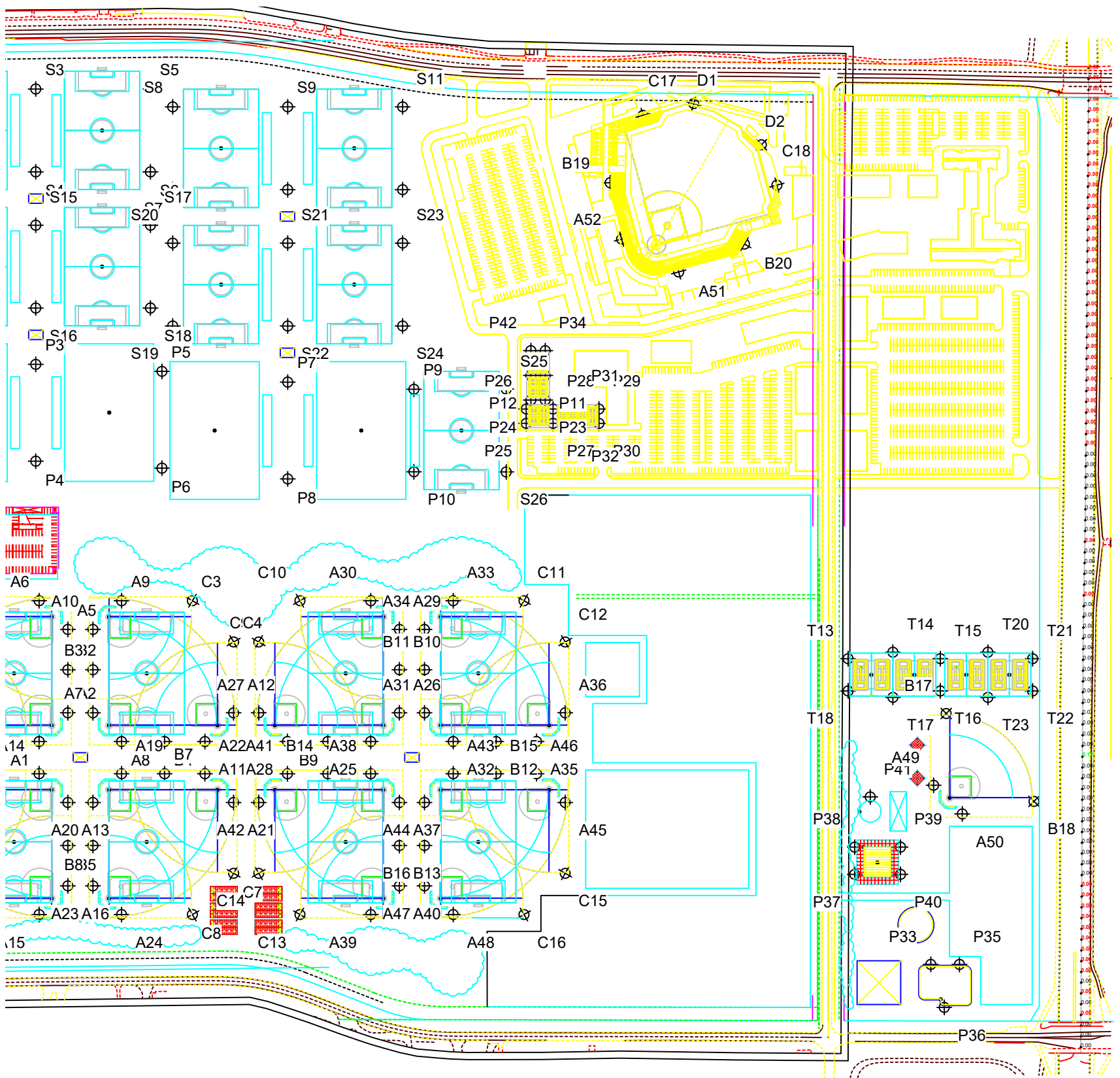
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	92
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 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.



SCALE IN FEET 1 : 350
 0' 350' 700'
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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	East Spill Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

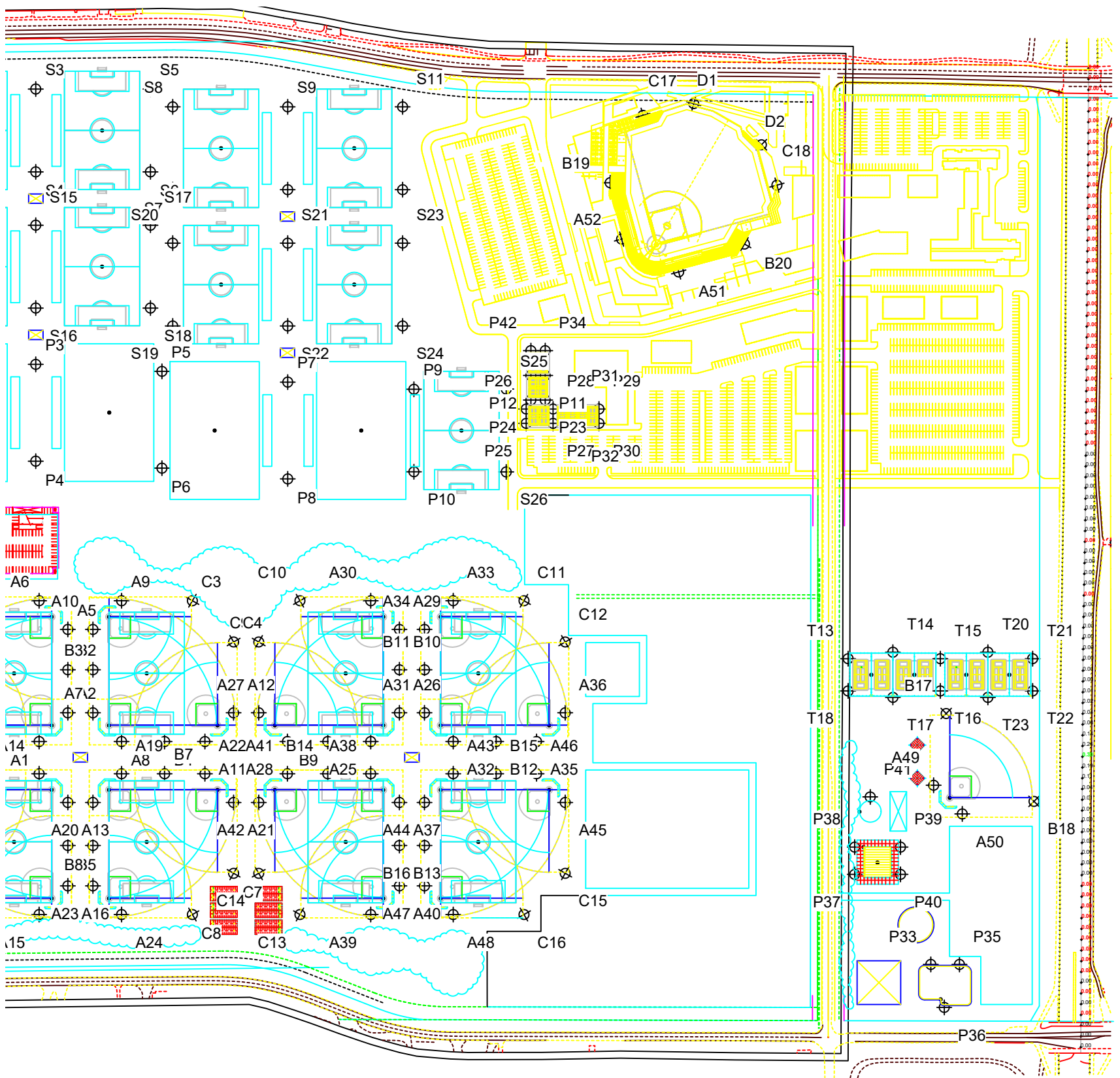
Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.01
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	92
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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SCALE IN FEET 1 : 350
 0' 350' 700'
 ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	East Spill Line
Spacing	30.0' x 10.0'
Height	3.0' above grade

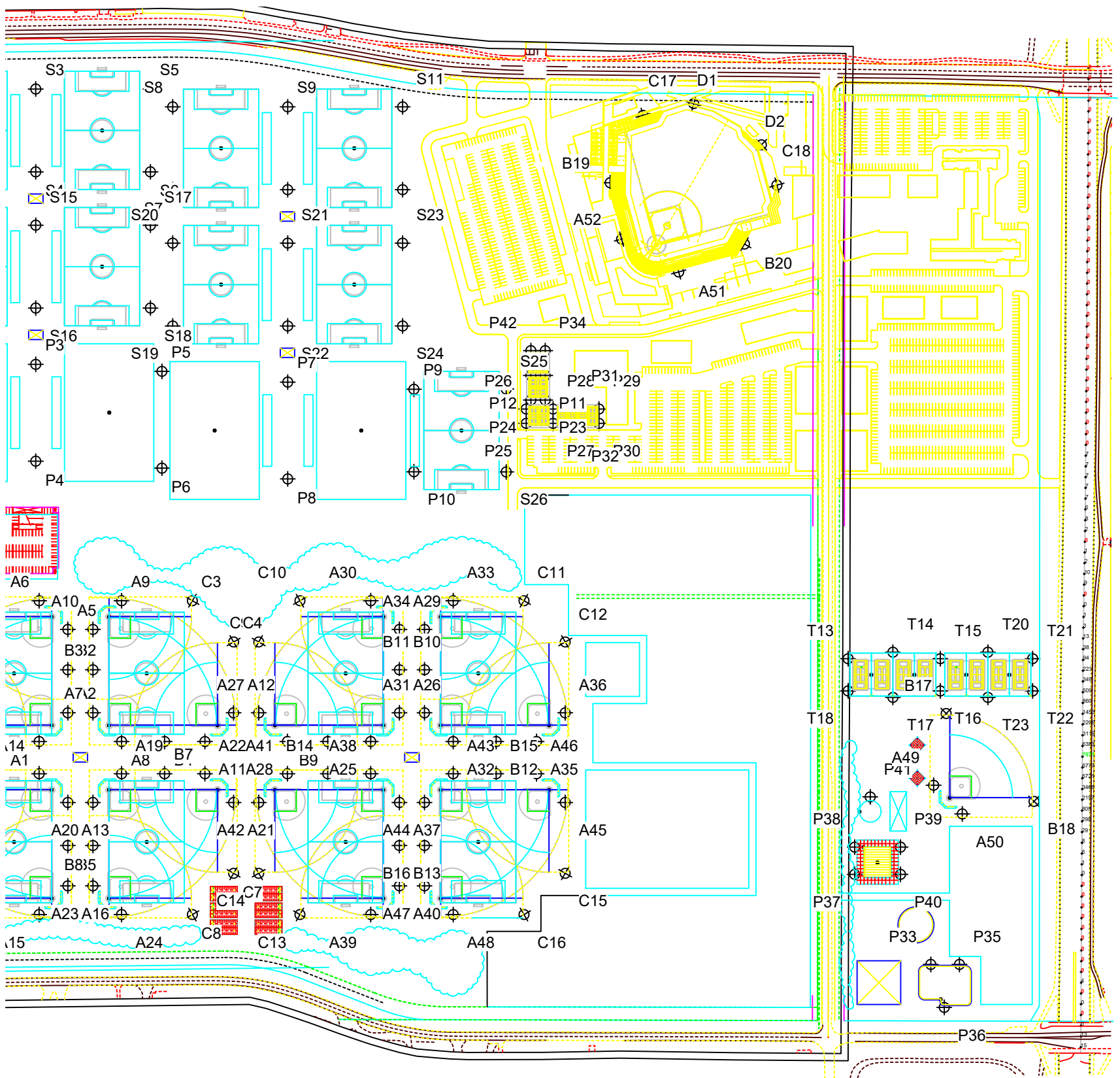
Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	469.96
Maximum	7571
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	92
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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SCALE IN FEET 1 : 350
 0' 350' 700'
 ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	South Spill Line
Spacing	30.0' x 10.0'
Height	2.9' above grade

Illumination Summary

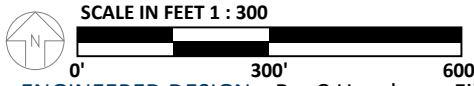
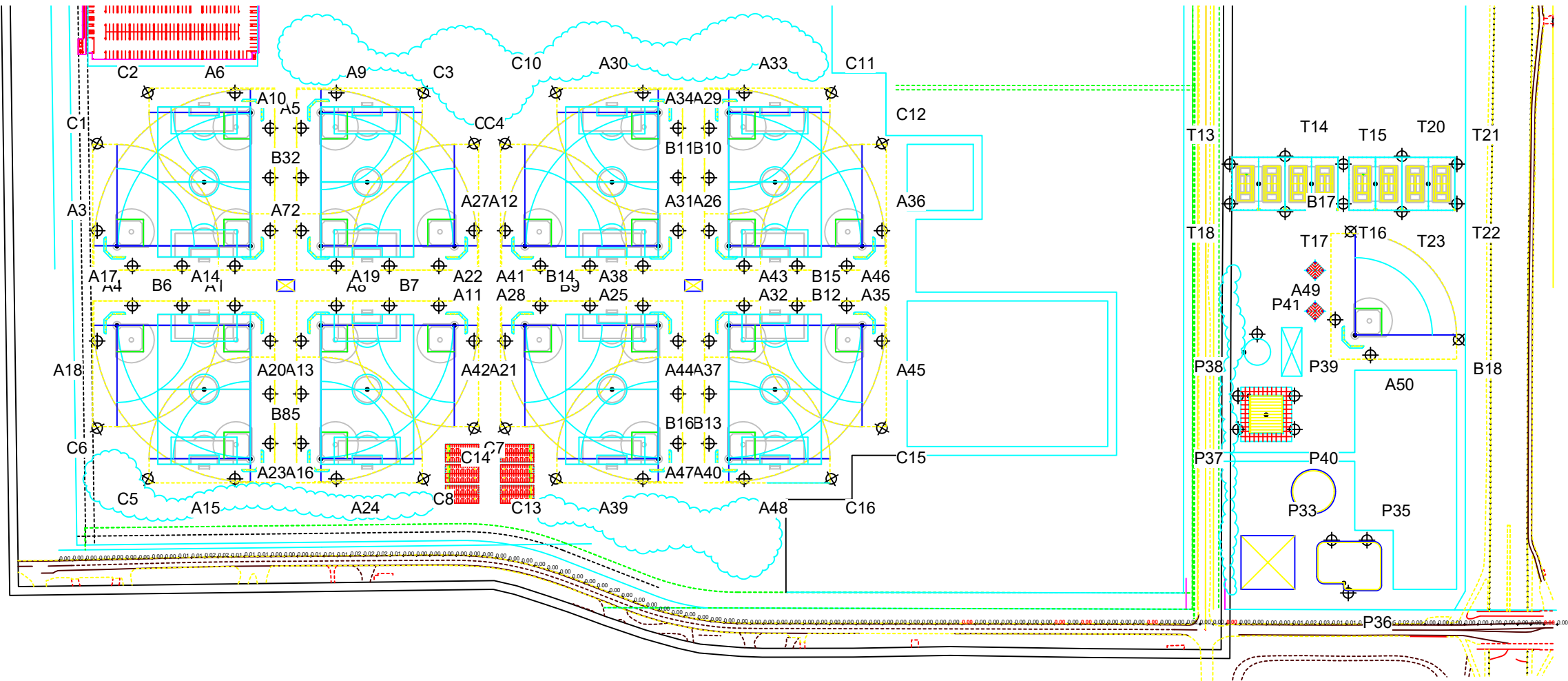
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	115
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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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.



ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name South Spill Line
 Spacing 30.0' x 10.0'
 Height 2.9' above grade

Illumination Summary

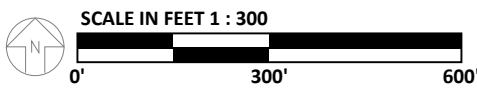
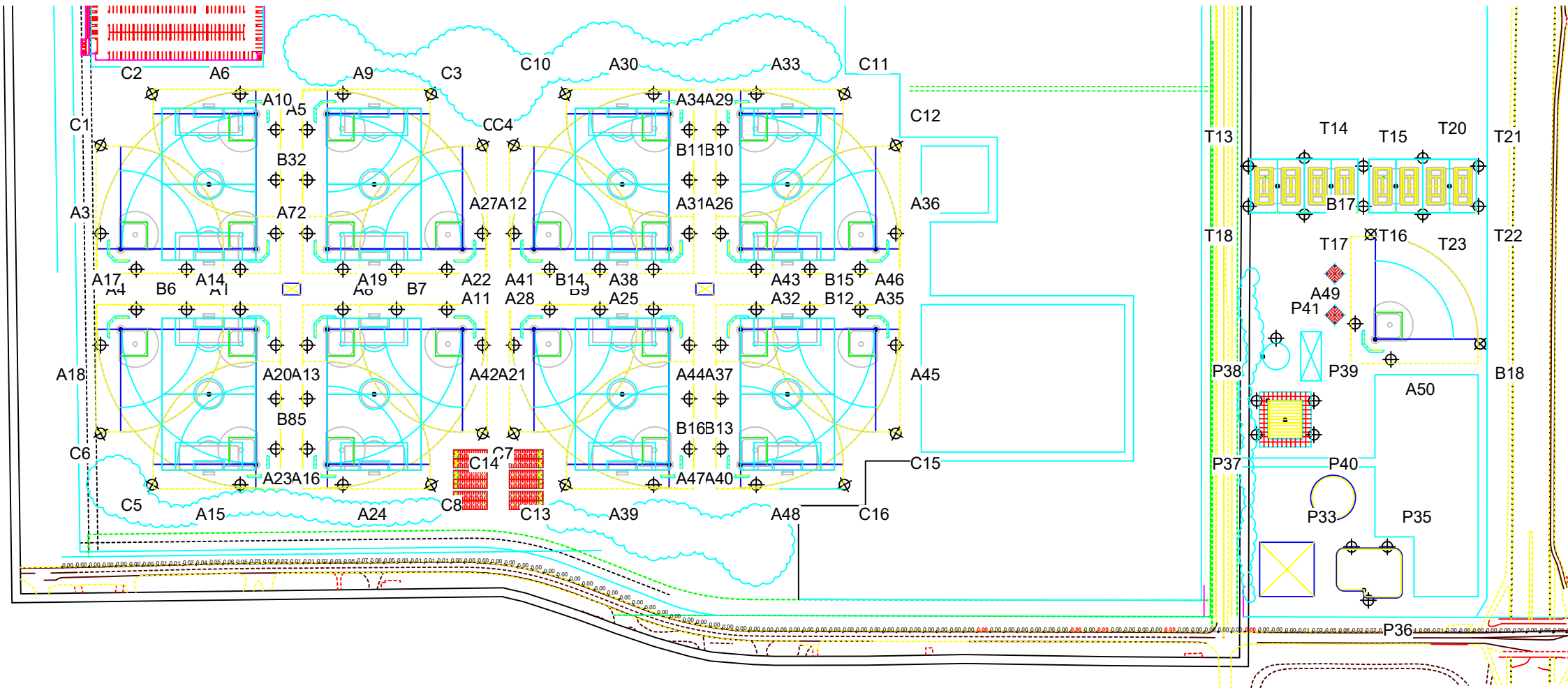
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.01
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	115
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name South Spill Line
 Spacing 30.0' x 10.0'
 Height 2.9' above grade

Illumination Summary

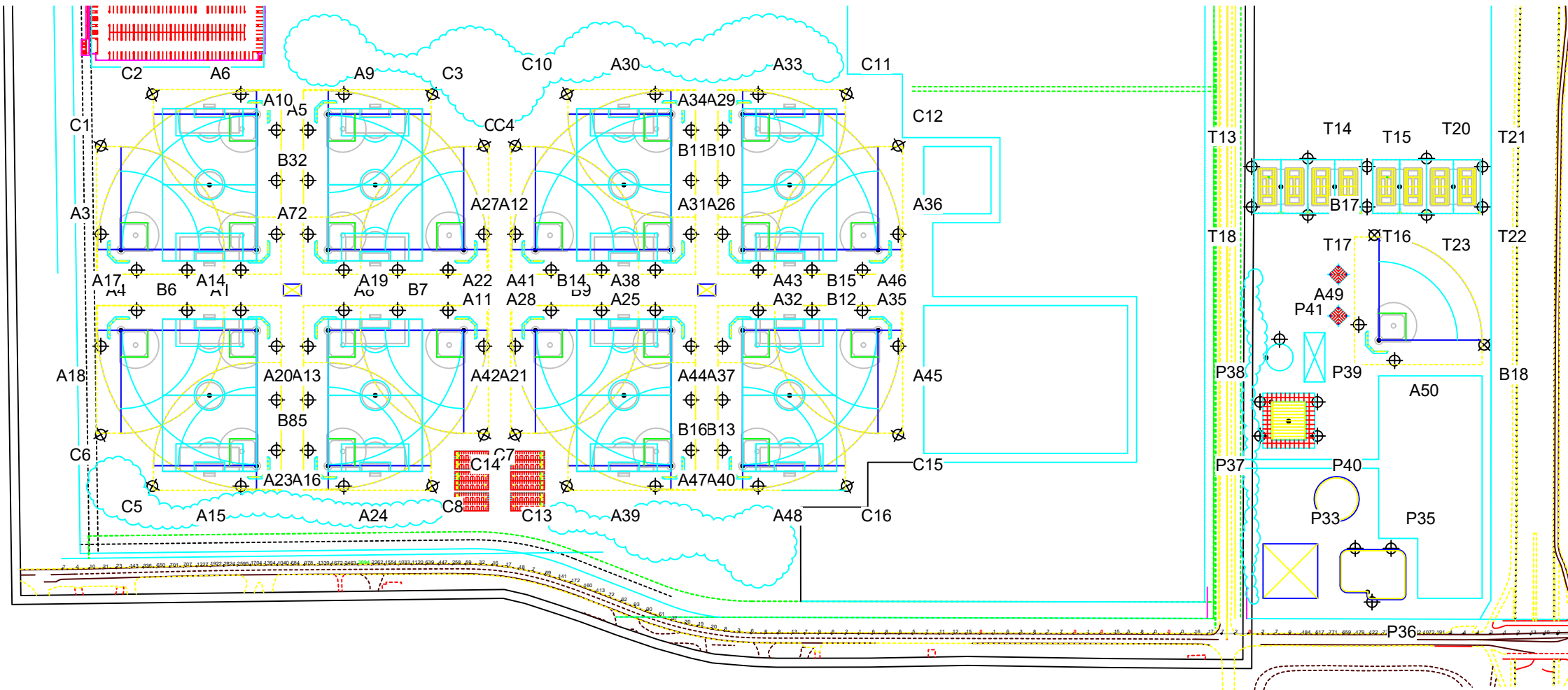
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	366.83
Maximum	3094
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	115
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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ILLUMINATION SUMMARY



Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	West Spill Line
Spacing	30.0' x 10.0'
Height	2.9' above grade

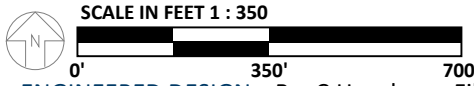
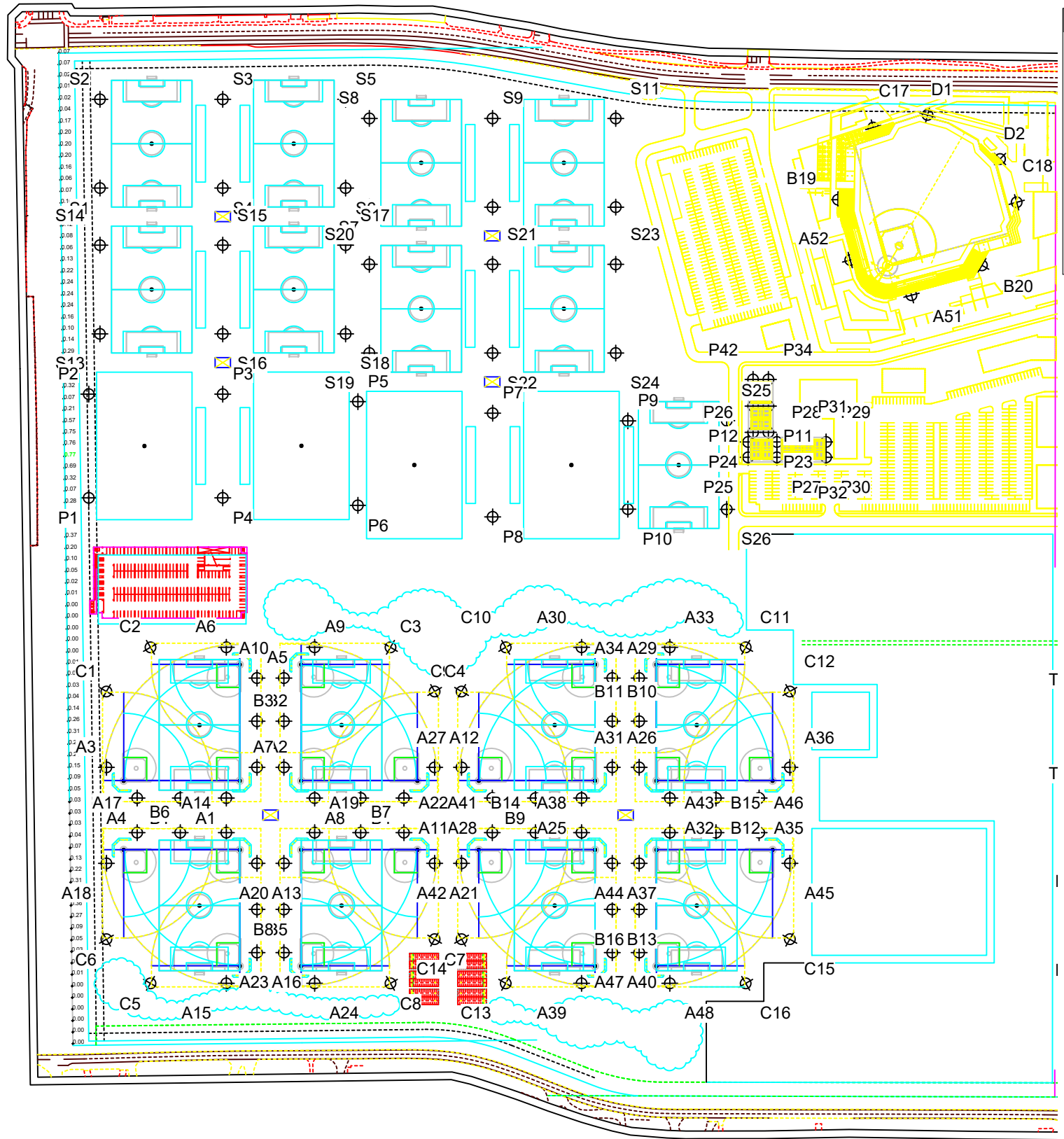
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.17
Maximum	1
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	87
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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



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Ontario Sports Complex

Ontario, CA

Grid Summary	
Name	West Spill Line
Spacing	30.0' x 10.0'
Height	2.9' above grade

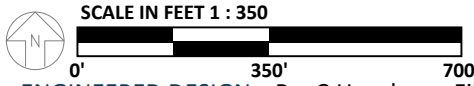
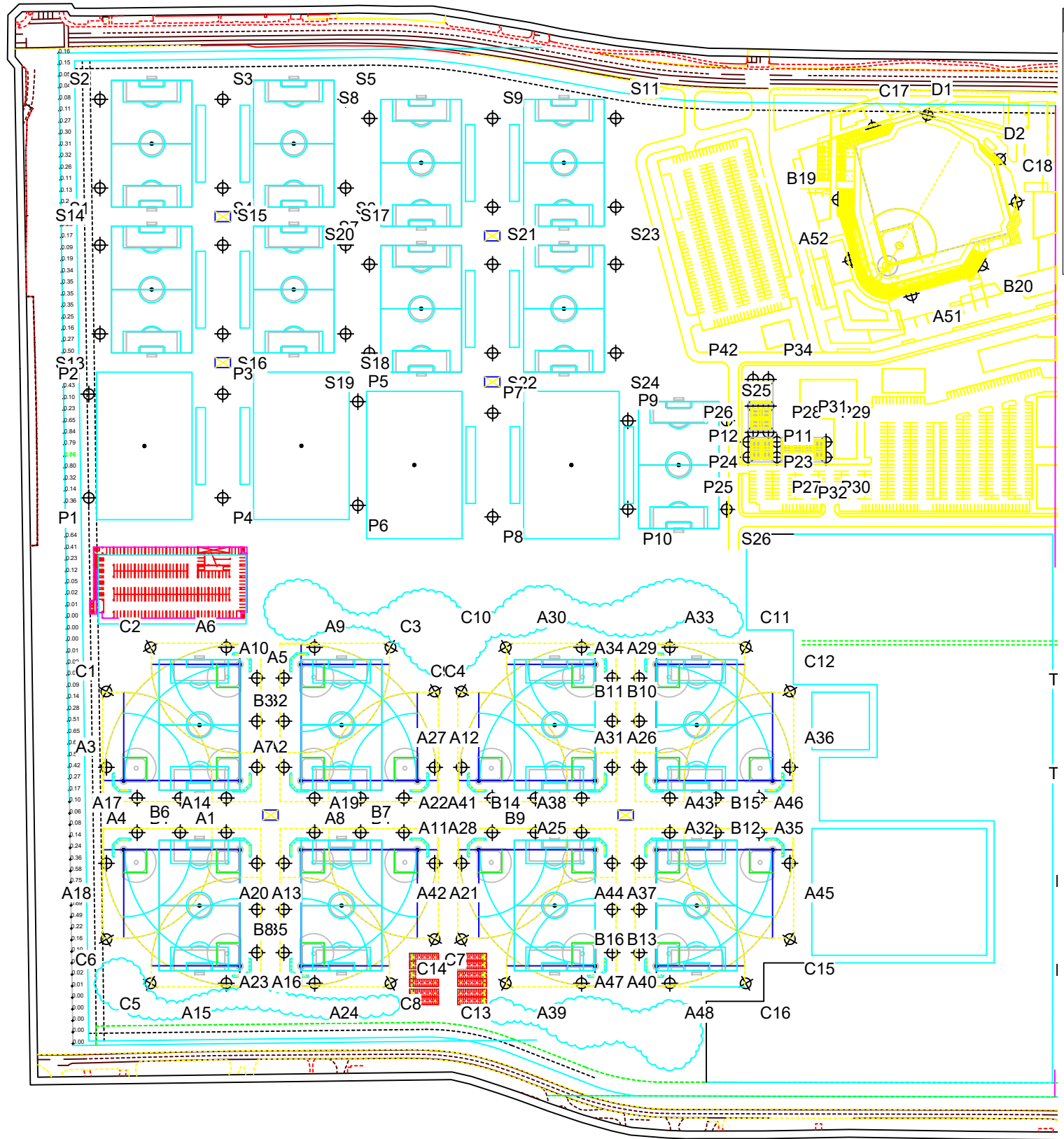
Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.28
Maximum	1
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	87
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 kW

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



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ILLUMINATION SUMMARY

Ontario Sports Complex

Ontario, CA

Grid Summary

Name	West Spill Line
Spacing	30.0' x 10.0'
Height	2.9' above grade

Illumination Summary

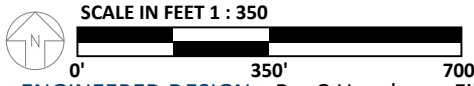
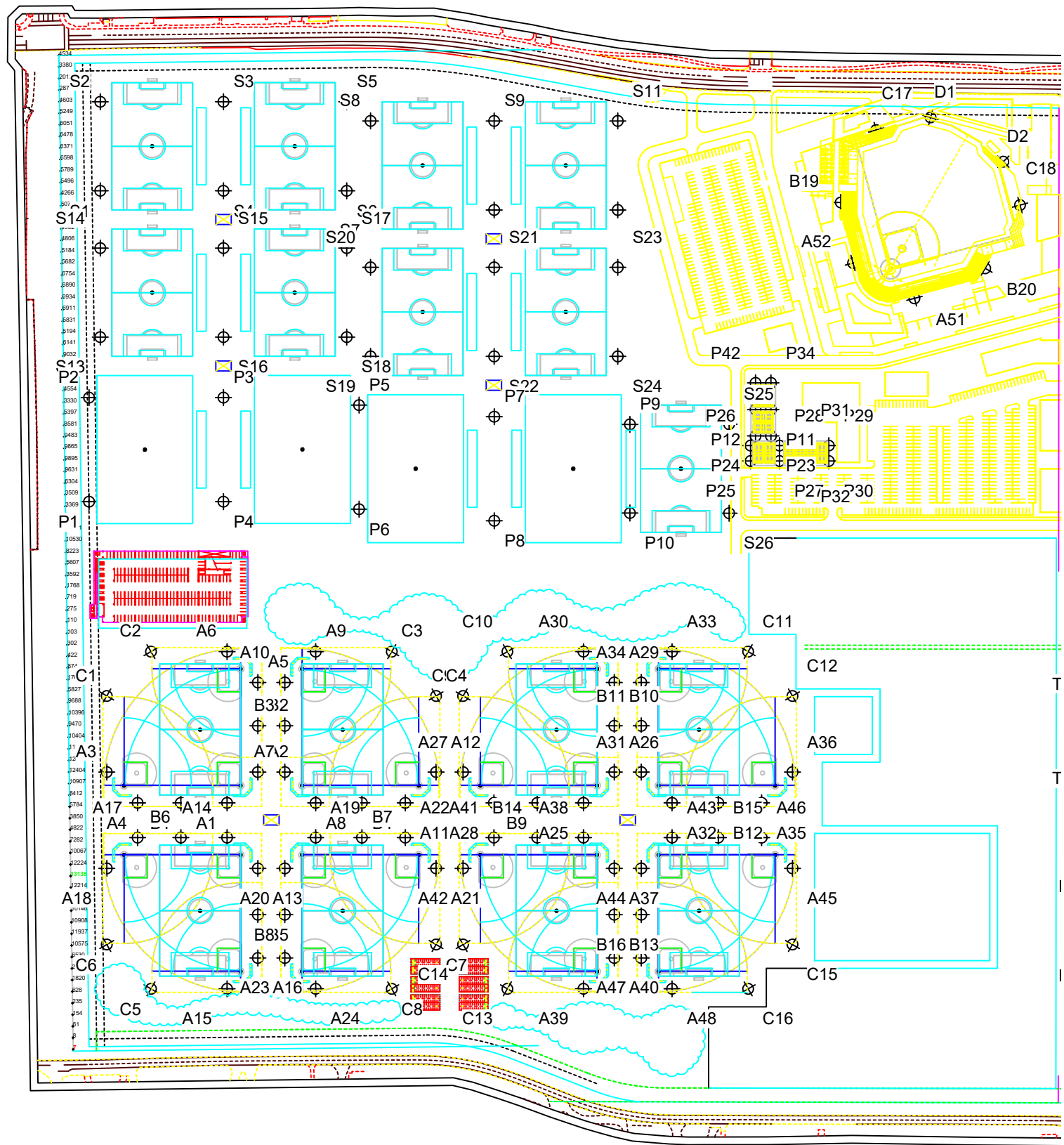
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	6072.51
Maximum	13135
Minimum	7
Avg/Min	838.81
Max/Min	1814.34
UG (adjacent pts)	0.00
CU	0.00
No. of Points	87
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L,M,N,O
Average LLF	0.988
No. of Luminaires	1135
Total Load	1210.99 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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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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ILLUMINATION SUMMARY

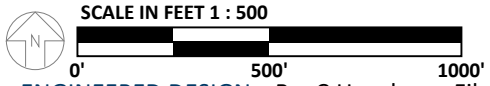
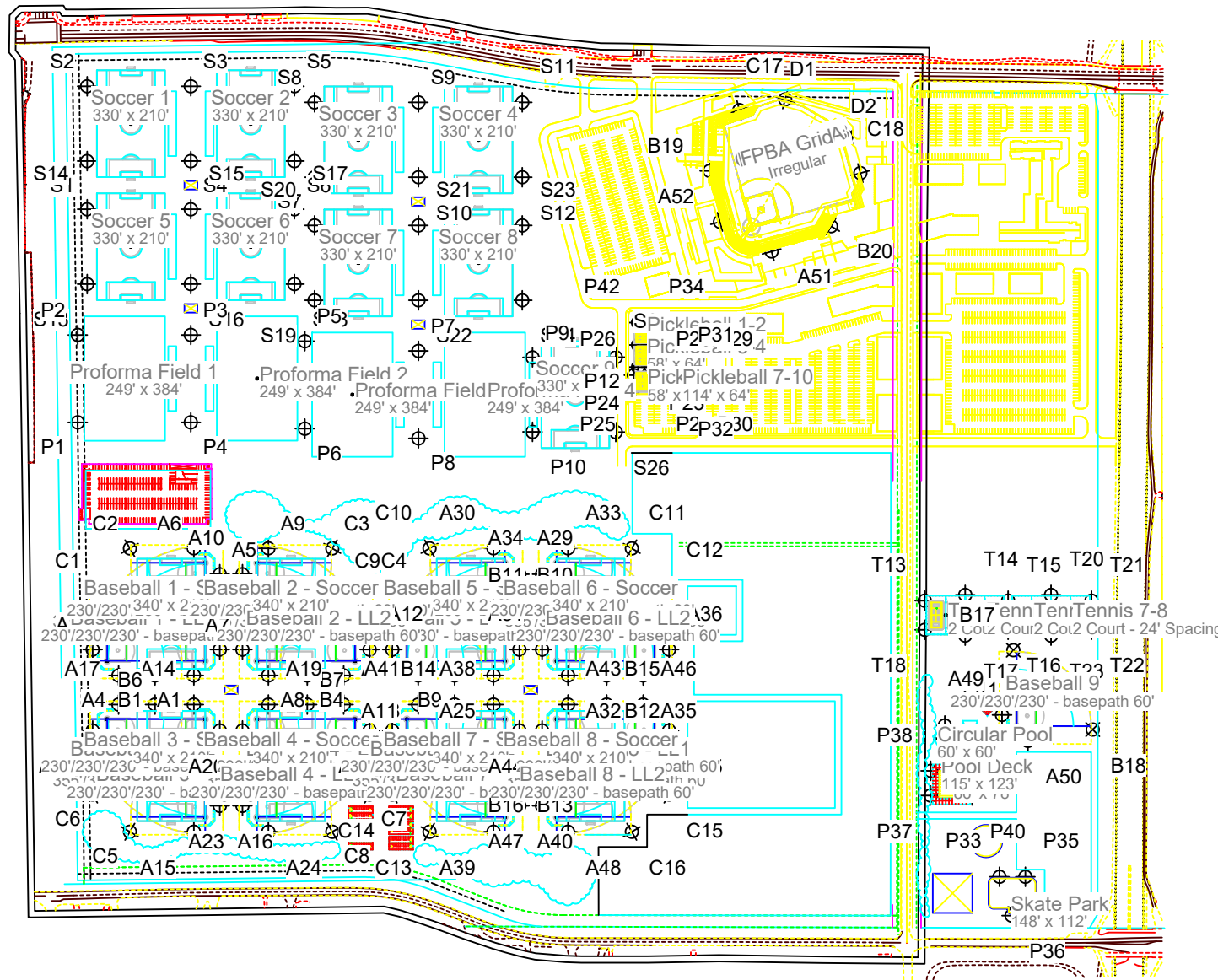
Equipment Layout

INCLUDES:

- Baseball 1
- Baseball 1 - LL1
- Baseball 1 - LL2
- Baseball 1 - Soccer
- Baseball 2
- Baseball 2 - LL1
- Baseball 2 - LL2
- Baseball 2 - Soccer
- Baseball 3
- Baseball 3 - LL1
- Baseball 3 - LL2
- Baseball 3 - Soccer
- Baseball 4
- Baseball 4 - LL1
- Baseball 4 - LL2
- Baseball 4 - Soccer
- Baseball 5
- Baseball 5 - LL 1
- Baseball 5 - LL 2
- Baseball 5 - Soccer
- Baseball 6
- Baseball 6 - LL1
- Baseball 6 - LL2
- Baseball 6 - Soccer
- Baseball 7
- Baseball 7 - LL1
- Baseball 7 - LL2
- Baseball 7 - Soccer
- Baseball 8
- Baseball 8 - LL1
- Baseball 8 - LL2
- Baseball 8 - Soccer
- Baseball 9
- Circular Pool
- Field Egress
- Field RGBA
- Ontario MILB
- PBA Grid
- Pickleball 1-2
- Pickleball 3-4
- Pickleball 5-6
- Pickleball 7-10
- Pool
- Pool Deck
- Proforma Field 1
- Proforma Field 2
- Proforma Field 3
- Proforma Field 4
- Skate Park
- Soccer 1
- Soccer 2
- Soccer 3
- Soccer 4
- Soccer 5
- Soccer 6
- Soccer 7
- Soccer 8
- Soccer 9
- Tennis 1-2
- Tennis 3-4
- Tennis 5-6
- Tennis 7-8

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) ⊗

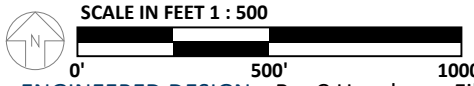
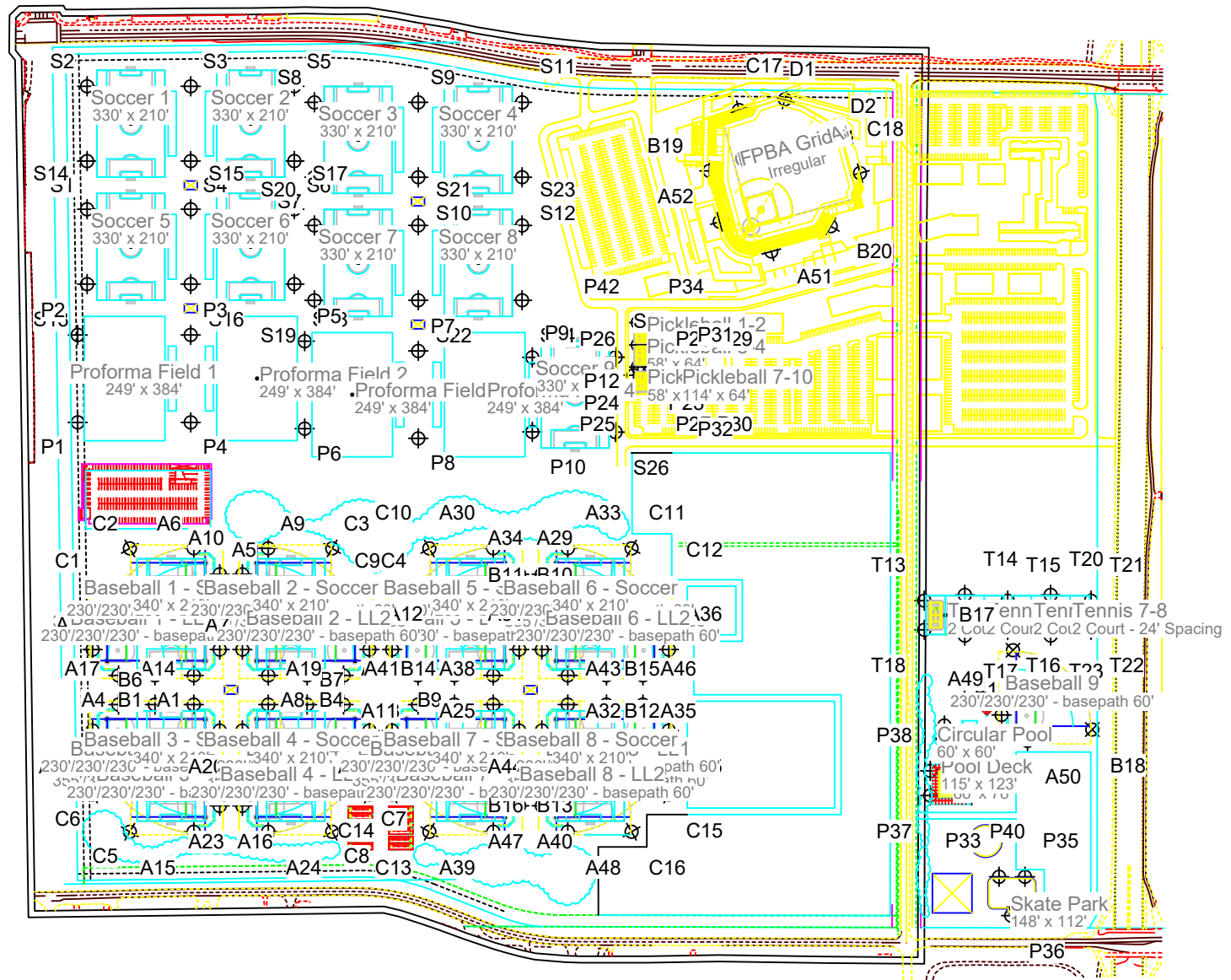


Ontario Sports Complex

Ontario, CA

Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-BT-1500	8.5	8.1	7.4	6.4	5.1	4.7
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8
TLC-LED-900	-	-	-	-	-	-
TLC-RGBA	4.5	4.3	3.8	3.3	2.7	1.9



ENGINEERED DESIGN By: C.Hensley • File #230737C-Spill • 27-Feb-24

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