

Appendix C Lighting Plans for Indian Springs High School

Appendix

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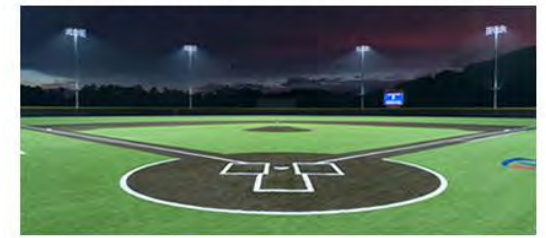
Indian Springs High School Athletic Playfields

San Bernardino, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	70'	70'	4	TLC-LED-1200	4.68 kW	A
		16'	1	TLC-BT-575	0.58 kW	B
		70'	3	TLC-LED-1200	3.51 kW	B
A2	60'	16'	1	TLC-BT-575	0.58 kW	A
		60'	3	TLC-LED-1200	3.51 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
A3	70'	70'	4	TLC-LED-1200	4.68 kW	A
		70'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
A4	70'	16'	1	TLC-BT-575	0.58 kW	A
		70'	4	TLC-LED-1200	4.68 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
A5-A6	70'	70'	1	TLC-LED-1200	1.17 kW	F
		70'	2	TLC-LED-900	1.78 kW	F
B1	80'	80'	5	TLC-LED-1500	7.15 kW	B
		16'	2	TLC-BT-575	1.15 kW	B
		80'	4	TLC-LED-1500	5.72 kW	H
B2	70'	70'	5	TLC-LED-1500	7.15 kW	B
		16'	2	TLC-BT-575	1.15 kW	B
B3	80'	80'	8	TLC-LED-1500	11.44 kW	A
		80'	8	TLC-LED-1500	11.44 kW	C
		22'	1	TLC-BT-575	0.58 kW	C
		16'	1	TLC-BT-575	0.58 kW	A
B4	80'	80'	8	TLC-LED-1500	11.44 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
B5	80'	80'	6	TLC-LED-1500	8.58 kW	C
		80'	2	TLC-LED-900	1.78 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
B6-B7	80'	80'	8	TLC-LED-1200	9.36 kW	F
C1	80'	80'	2	TLC-LED-1200	2.34 kW	A
		80'	1	TLC-LED-900	0.89 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
C2	80'	80'	5	TLC-LED-1200	5.85 kW	G
		80'	1	TLC-LED-900	0.89 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		80'	2	TLC-LED-1200	2.34 kW	A
C3	70'	70'	1	TLC-LED-1200	1.17 kW	C
		70'	3	TLC-LED-1500	4.29 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
C4	80'	80'	3	TLC-LED-1500	4.29 kW	C
		80'	1	TLC-LED-900	0.89 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
D1	70'	70'	3	TLC-LED-1200	3.51 kW	A
		70'	1	TLC-LED-900	0.89 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
D2	80'	80'	5	TLC-LED-1200	5.85 kW	G
		80'	1	TLC-LED-900	0.89 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
		80'	3	TLC-LED-1200	3.51 kW	A
D3	70'	70'	4	TLC-LED-1500	5.72 kW	C
P1-P2	70'	70'	5	TLC-LED-1200	5.85 kW	G
P3	70'	70'	5	TLC-LED-1500	7.15 kW	H
T1	60'	60'	1	TLC-LED-1200	1.17 kW	D
		60'	2	TLC-LED-900	1.78 kW	D
T2	80'	80'	6	TLC-LED-1500	8.58 kW	H

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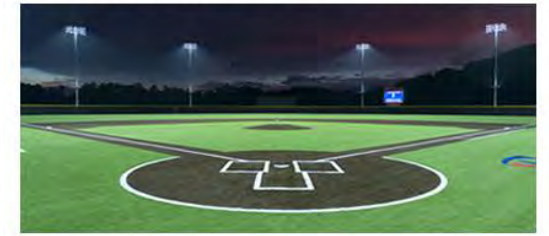
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Indian Springs High School Athletic Playfields

San Bernardino, CA

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
		60'	2	TLC-LED-1200	2.34 kW	D
		60'	2	TLC-LED-900	1.78 kW	D
T3, T6	60'	60'	3	TLC-LED-900	2.67 kW	D
T4	60'	60'	3	TLC-LED-1200	3.51 kW	E
		60'	2	TLC-LED-1200	2.34 kW	D
		60'	1	TLC-LED-900	0.89 kW	D
T5	60'	60'	3	TLC-LED-1200	3.51 kW	D
		60'	3	TLC-LED-1200	3.51 kW	E
		60'	1	TLC-LED-900	0.89 kW	D
T7-T8	60'	60'	3	TLC-LED-1200	3.51 kW	E
31			199		231.39 kW	

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Indian Springs High School Athletic Playfields

San Bernardino, CA

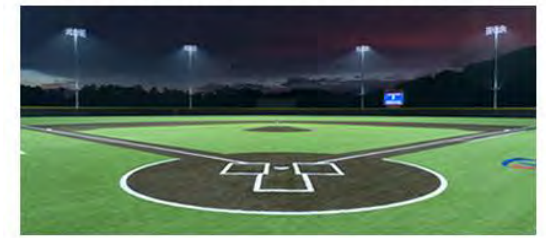
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Varsity Baseball	52.1 kW	46
B	Varsity Softball	24.77 kW	22
C	JV Baseball	50.97 kW	42
D	Tennis 1-5	20.04 kW	20
E	Tennis 6-8	14.04 kW	12
F	Practice Softball	24.62 kW	22
G	Practice North	23.4 kW	20
H	Practice South	21.45 kW	15

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1430W	160,000	>120,000	>120,000	>120,000	65
TLC-LED-1200	LED 5700K - 75 CRI	1170W	136,000	>120,000	>120,000	>120,000	91
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	23
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	20

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
9th St. Spill	Horizontal	0	0	0.01	0.00		A,B,C,D,E,F,G,H	199
9th St. Spill	Max Candela (by Fixture)	1939	133	4827	36.36	14.60	A,B,C,D,E,F,G,H	199
9th St. Spill	Max Vertical Illuminance Metric	0.02	0	0.04	62.11		A,B,C,D,E,F,G,H	199
Del Rosa Drive Spill	Horizontal	0.01	0	0.06	0.00		A,B,C,D,E,F,G,H	199
Del Rosa Drive Spill	Max Candela (by Fixture)	3702	0.44	15921	36405.21	8414.25	A,B,C,D,E,F,G,H	199
Del Rosa Drive Spill	Max Vertical Illuminance Metric	0.04	0	0.18	0.00		A,B,C,D,E,F,G,H	199
JV Baseball Blanket Grid	Horizontal	26.6	0	65	272.23		C	42
JV Baseball (Infield)	Horizontal Illuminance	54	39	65	1.67	1.38	C	42
JV Baseball (Outfield)	Horizontal Illuminance	33.7	22	53	2.36	1.53	C	42
JVBB 1st Base Bullpen	Horizontal	22.8	5	37	7.34	4.56	C	42
JVBB 3rd Base Bullpen	Horizontal	14.9	4	34	8.67	3.73	C	42
Practice North	Horizontal Illuminance	30.1	20	37	1.81	1.51	G	20
Practice Softball (Infield)	Horizontal Illuminance	51.3	44	59	1.34	1.17	F	22
Practice Softball (Outfield)	Horizontal Illuminance	33.8	20	46	2.27	1.69	F	22
Practice South	Horizontal Illuminance	30.1	21	42	1.98	1.43	F,H	37
Tennis 1-5	Horizontal Illuminance	51	38	70	1.87	1.34	D	20
Tennis 6-8	Horizontal Illuminance	58.1	40	69	1.74	1.45	E	12
VBB 1st Base Bullpen	Horizontal	23.9	12	32	2.64	1.99	A	46
VBB 3rd Base Bullpen	Horizontal	20.2	8	29	3.50	2.53	A	46
VSB 1st Base Bullpen	Horizontal	11.5	1	32	24.15	11.50	B	22
VSB 3rd Base Bullpen	Horizontal	13.8	3	29	8.74	4.60	B	22
Varsity Baseball (Infield)	Horizontal Illuminance	54	41	65	1.60	1.32	A	46
Varsity Baseball (Outfield)	Horizontal Illuminance	31.6	24	46	1.95	1.32	A	46
Varsity Softball (Infield)	Horizontal Illuminance	52.2	38	64	1.69	1.37	B	22
Varsity Softball (Outfield)	Horizontal Illuminance	30.7	21	43	2.11	1.46	B	22
West Spill	Horizontal	0.30	0	1.51	0.00		A,B,C,D,E,F,G,H	199
West Spill	Max Candela (by Fixture)	8986	2.65	29960	11308.30	3391.07	A,B,C,D,E,F,G,H	199
West Spill	Max Vertical Illuminance Metric	0.52	0	2.17	0.00		A,B,C,D,E,F,G,H	199

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EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1	1	1
				70'	TLC-LED-1200	3/4*	3	3	4
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0	0
				60'	TLC-LED-1200	3	3	0	0
1	B1	80'	-	15.5'	TLC-BT-575	2	2	0	0
				80'	TLC-LED-1500	5/4*	5	5	4
1	B2	70'	-	15.5'	TLC-BT-575	2	2	0	0
				70'	TLC-LED-1500	5	5	0	0
4	TOTALS						31	22	9

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



GRID SUMMARY	
Name:	Varsity Softball
Size:	225'/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:	52.2	30.7
Maximum:	64	43
Minimum:	38	21
Avg / Min:	1.38	1.50
Guaranteed Max / Min:	2	2.5
Max / Min:	1.69	2.11
UG (adjacent pts):	1.30	1.46
CU:	0.65	
No. of Points:	25	98

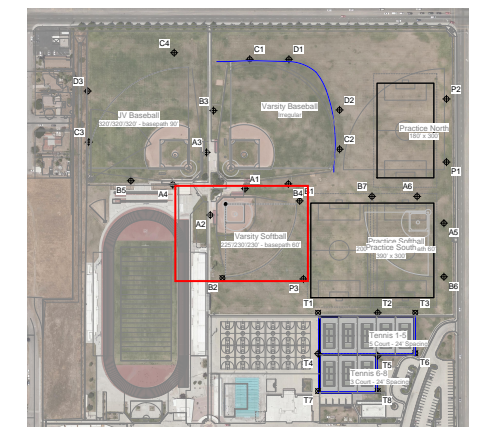
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	22
Total Load:	24.77 kW

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

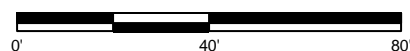
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 : 40



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



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	3/4*	3	4	
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-1200	3	3	0	
1	B1	80'	-	15.5'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	5/4*	5	4	
1	B2	70'	-	15.5'	TLC-BT-575	2	2	0	
				70'	TLC-LED-1500	5	5	0	
4	TOTALS						31	22	9

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



GRID SUMMARY	
Name:	VSB 1st Base Bullpen
Size:	225'/230'/230' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

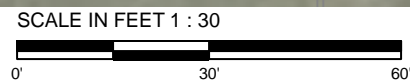
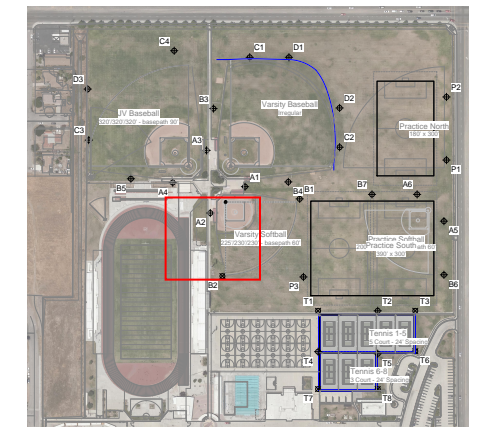
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	11.5
Maximum:	32
Minimum:	1
Avg / Min:	8.58
Max / Min:	24.15
UG (adjacent pts):	1.89
CU:	0.02
No. of Points:	51
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	22
Total Load:	24.77 kW

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

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

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

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



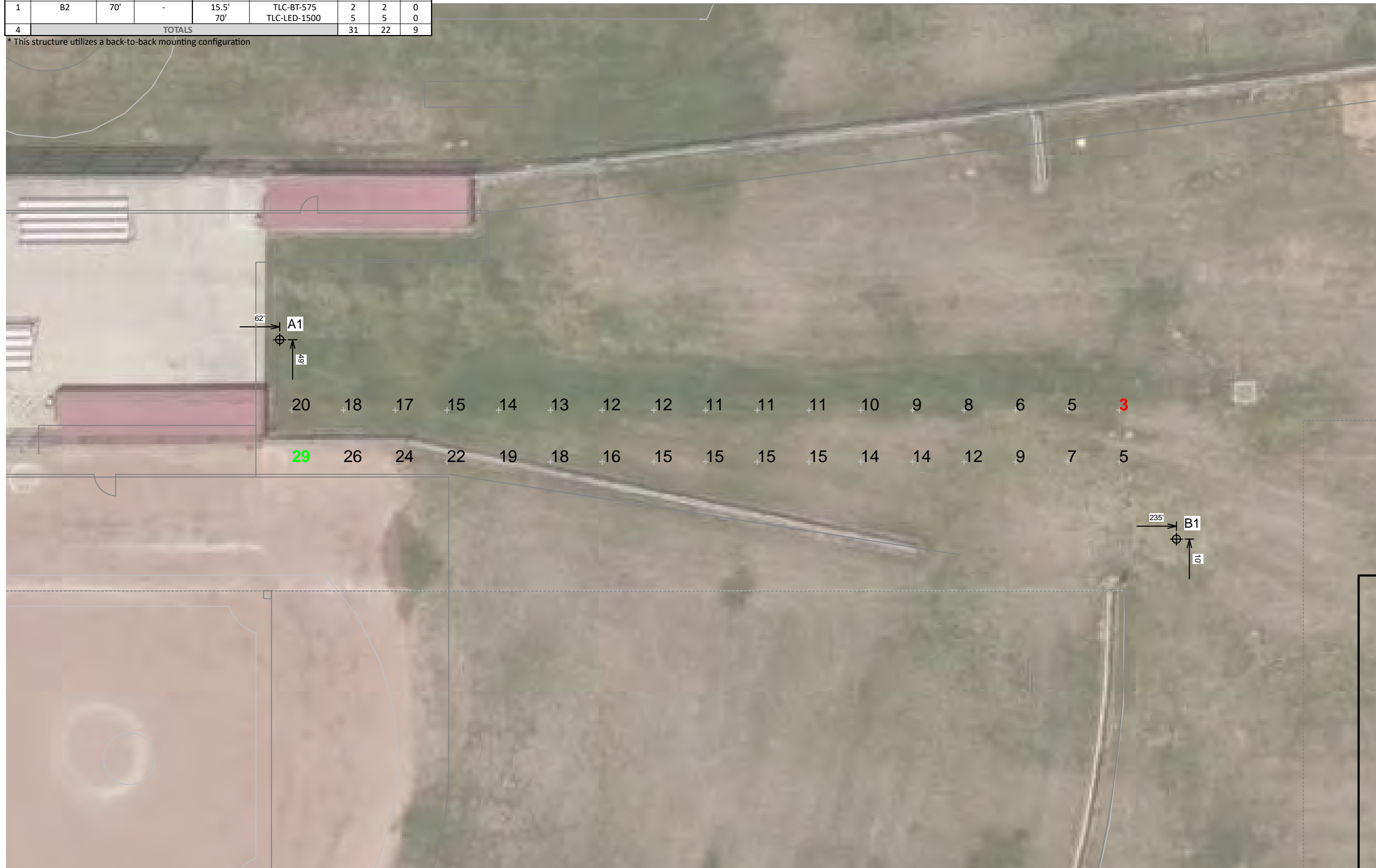
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1	1
				70'	TLC-LED-1200	3/4*	3	4
1	A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1200	3	3	0
1	B1	80'	-	15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	5/4*	5	4
1	B2	70'	-	15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1500	5	5	0
4	TOTALS					31	22	9

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



GRID SUMMARY	
Name:	VS3 3rd Base Bullpen
Size:	225'/230'/230' - basepath 60'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

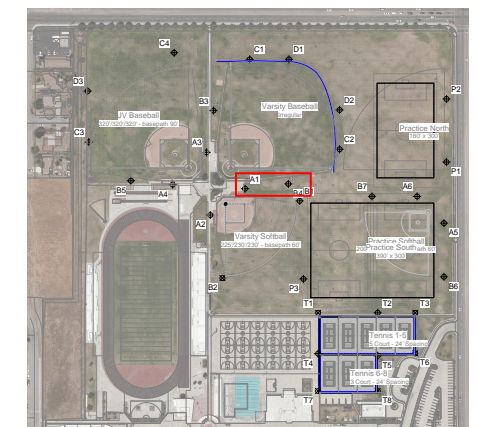
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	13.8
Maximum:	29
Minimum:	3
Avg / Min:	4.19
Max / Min:	8.74
UG (adjacent pts):	1.51
CU:	0.02
No. of Points:	34
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	22
Total Load:	24.77 kW

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

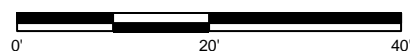
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 20

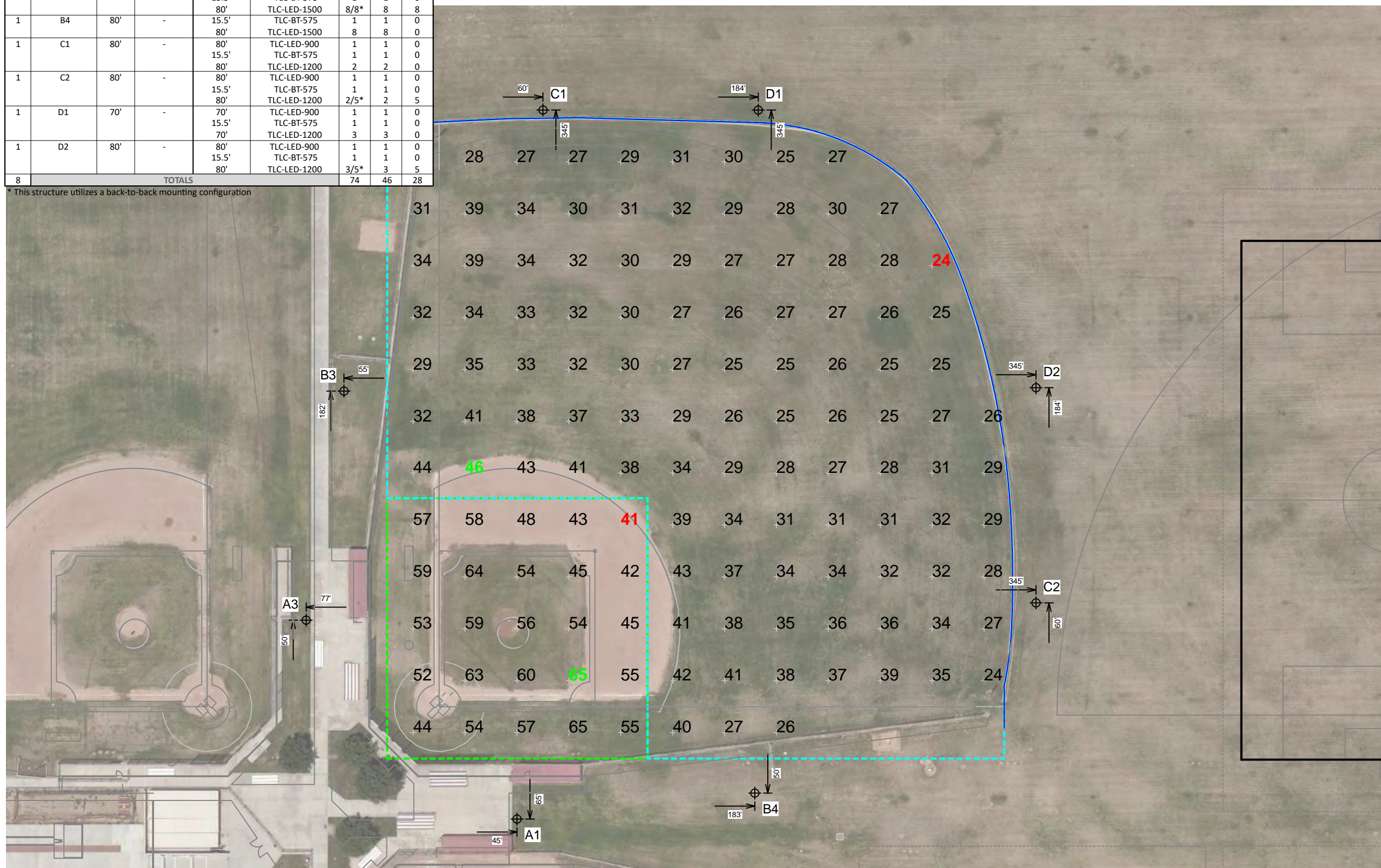


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	3/4*	4	3	
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	4/4*	4	4	
1	B3	80'	-	21.5'	TLC-BT-575	1	0	1	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	8/8*	8	8	
1	B4	80'	-	15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	8	8	0	
1	C1	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	2	2	0	
1	C2	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	2/5*	2	5	
1	D1	70'	-	70'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	3	3	0	
1	D2	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	3/5*	3	5	
8	TOTALS						74	46	28

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



GRID SUMMARY	
Name:	Varsity Baseball
Size:	Irregular 338' / 402' / 327'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	54.0	31.6
Maximum:	65	46
Minimum:	41	24
Avg / Min:	1.32	1.34
Guaranteed Max / Min:	2	2.5
Max / Min:	1.60	1.95
UG (adjacent pts):	1.22	1.51
CU:	0.75	
No. of Points:	25	106

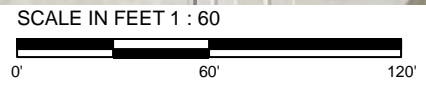
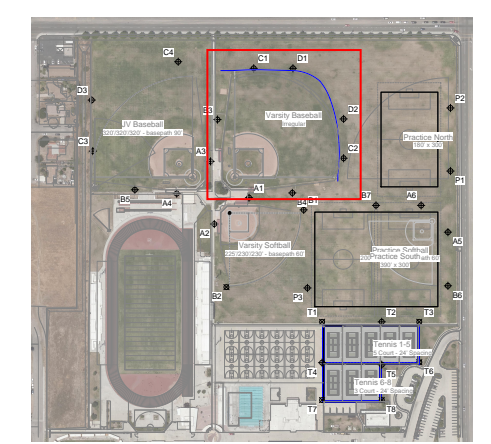
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	46
Total Load:	52.1 kW

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

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

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

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



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



EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	3/4*	4	3	
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	4/4*	4	4	
1	B3	80'	-	21.5'	TLC-BT-575	1	0	1	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	8/8*	8	8	
1	B4	80'	-	15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	8	8	0	
1	C1	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	2	2	0	
1	C2	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	2/5*	2	5	
1	D1	70'	-	70'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	3	3	0	
1	D2	80'	-	80'	TLC-LED-900	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1200	3/5*	3	5	
8	TOTALS						74	46	28

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



GRID SUMMARY	
Name:	VBB 3rd Base Bullpen
Size:	Irregular 338' / 402' / 327'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

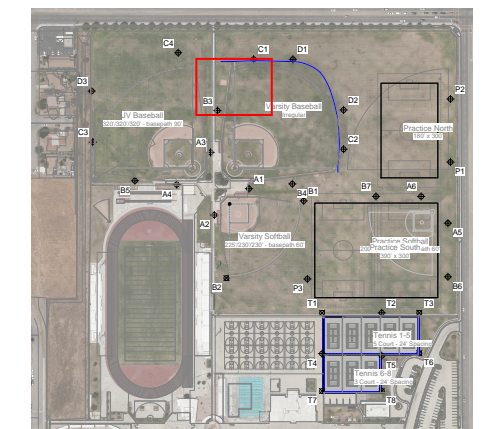
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	20.2
Maximum:	29
Minimum:	8
Avg / Min:	2.40
Max / Min:	3.50
UG (adjacent pts):	1.48
CU:	0.01
No. of Points:	36
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	46
Total Load:	52.1 kW

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

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

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

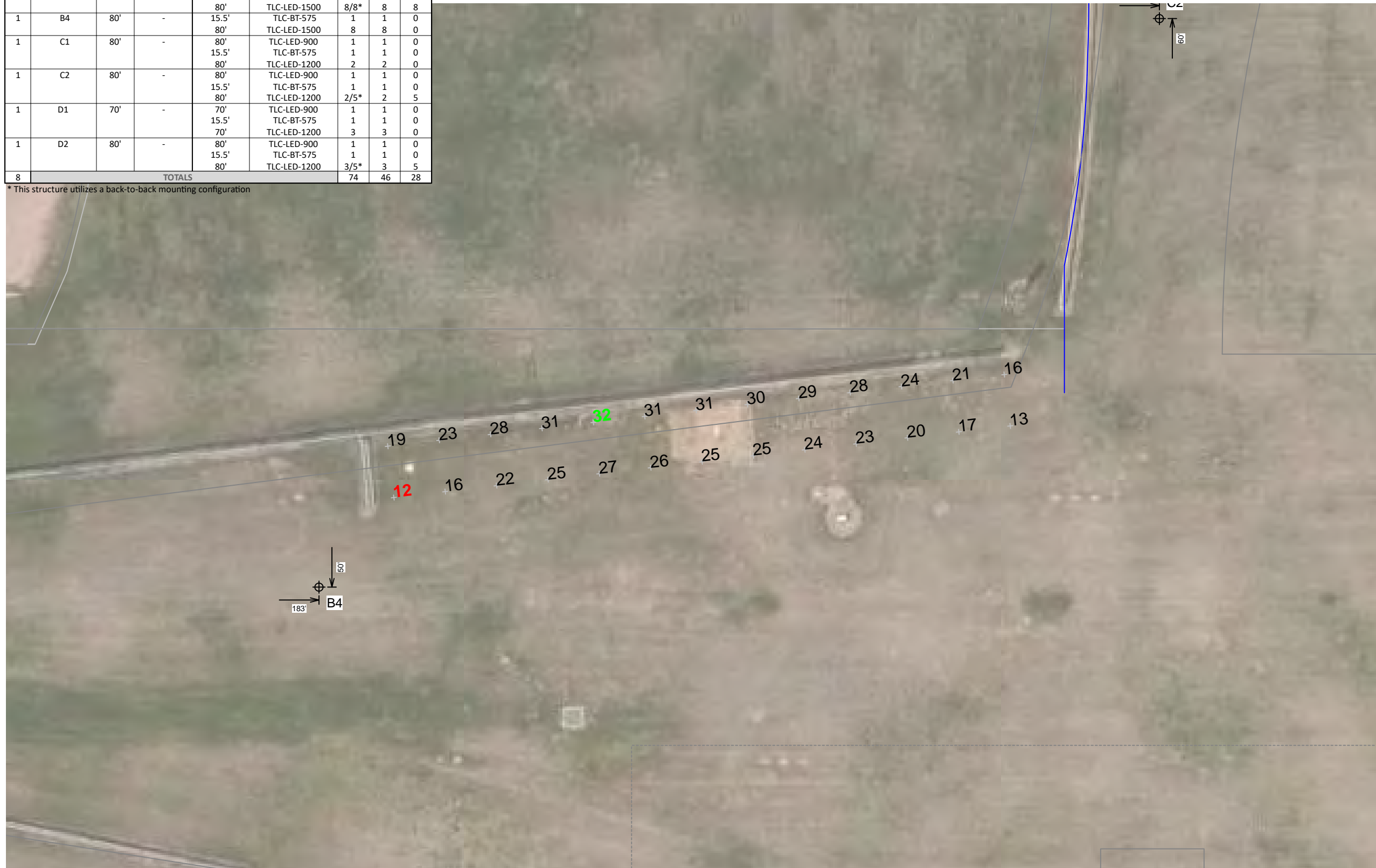
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID		
1	A1	70'	-	15.5'	TLC-BT-575	1/1*	1		
				70'	TLC-LED-1200	3/4*	4		
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1		
				70'	TLC-LED-1200	4/4*	4		
1	B3	80'	-	21.5'	TLC-BT-575	1	0		
				15.5'	TLC-BT-575	1	1		
				80'	TLC-LED-1500	8/8*	8		
1	B4	80'	-	15.5'	TLC-BT-575	1	1		
				80'	TLC-LED-1500	8	8		
1	C1	80'	-	80'	TLC-LED-900	1	1		
				15.5'	TLC-BT-575	1	1		
				80'	TLC-LED-1200	2	2		
1	C2	80'	-	80'	TLC-LED-900	1	1		
				15.5'	TLC-BT-575	1	1		
				80'	TLC-LED-1200	2/5*	2		
1	D1	70'	-	70'	TLC-LED-900	1	1		
				15.5'	TLC-BT-575	1	1		
				70'	TLC-LED-1200	3	3		
1	D2	80'	-	80'	TLC-LED-900	1	1		
				15.5'	TLC-BT-575	1	1		
				80'	TLC-LED-1200	3/5*	3		
8	TOTALS						74	46	28

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



GRID SUMMARY	
Name:	VBB 1st Base Bullpen
Size:	Irregular 338' / 402' / 327'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

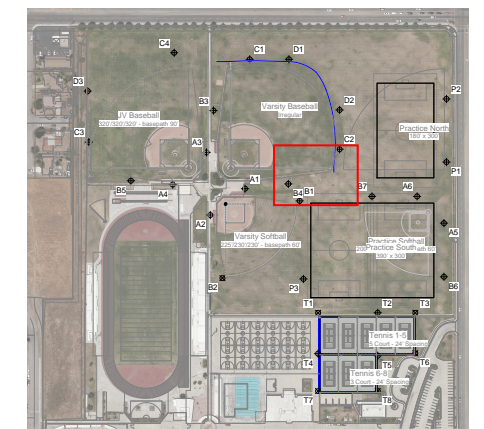
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	23.9
Maximum:	32
Minimum:	12
Avg / Min:	1.96
Max / Min:	2.64
UG (adjacent pts):	1.54
CU:	0.01
No. of Points:	26
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	46
Total Load:	52.1 kW

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

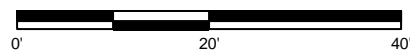
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 20

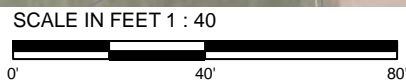
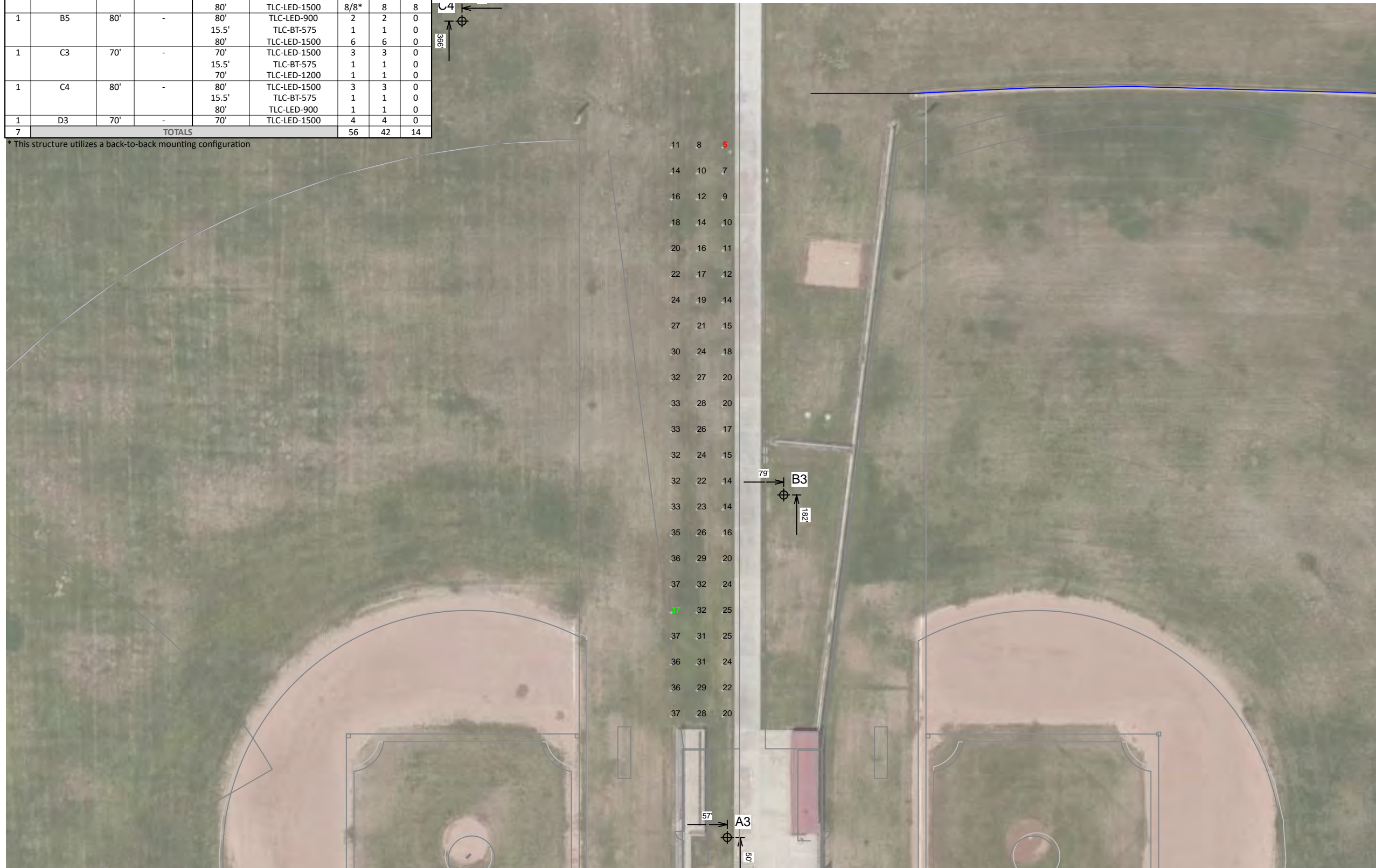


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-1200	4/4*	4	4	
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	4	4	0	
1	B3	80'	-	21.5'	TLC-BT-575	1	1	0	
				15.5'	TLC-BT-575	1	0	1	
				80'	TLC-LED-1500	8/8*	8	8	
1	B5	80'	-	80'	TLC-LED-900	2	2	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-1500	6	6	0	
1	C3	70'	-	70'	TLC-LED-1500	3	3	0	
				15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-1200	1	1	0	
1	C4	80'	-	80'	TLC-LED-1500	3	3	0	
				15.5'	TLC-BT-575	1	1	0	
				80'	TLC-LED-900	1	1	0	
1	D3	70'	-	70'	TLC-LED-1500	4	4	0	
7	TOTALS						56	42	14

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



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

GRID SUMMARY	
Name:	JVBB 1st Base Bullpen
Size:	320'/320'/320' - basepath 90'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

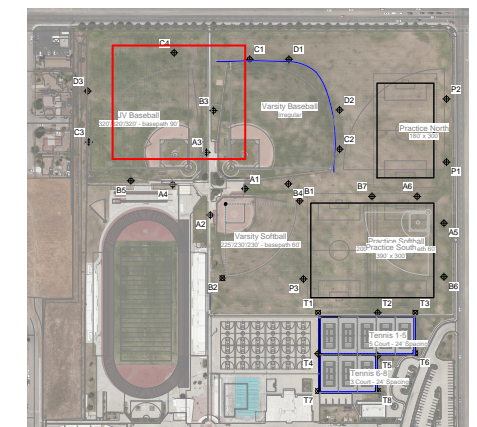
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	22.8
Maximum:	37
Minimum:	5
Avg / Min:	4.47
Max / Min:	7.34
UG (adjacent pts):	1.62
CU:	0.03
No. of Points:	69
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	42
Total Load:	50.97 kW

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

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

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

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



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EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS		
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1		
				70'	TLC-LED-1200	4/4*	4	4		
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	4	4	0		
1	B3	80'	-	21.5'	TLC-BT-575	1	1	0		
				15.5'	TLC-BT-575	1	0	1		
				80'	TLC-LED-1500	8/8*	8	8		
1	B5	80'	-	80'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	1	1	0		
				80'	TLC-LED-1500	6	6	0		
1	C3	70'	-	70'	TLC-LED-1500	3	3	0		
				15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	1	1	0		
1	C4	80'	-	80'	TLC-LED-1500	3	3	0		
				15.5'	TLC-BT-575	1	1	0		
				80'	TLC-LED-900	1	1	0		
1	D3	70'	-	70'	TLC-LED-1500	4	4	0		
7	TOTALS						56	42	14	

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



GRID SUMMARY	
Name:	JVBB 3rd Base Bullpen
Size:	320'/320'/320' - basepath 90'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

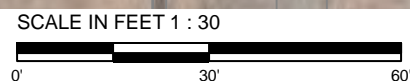
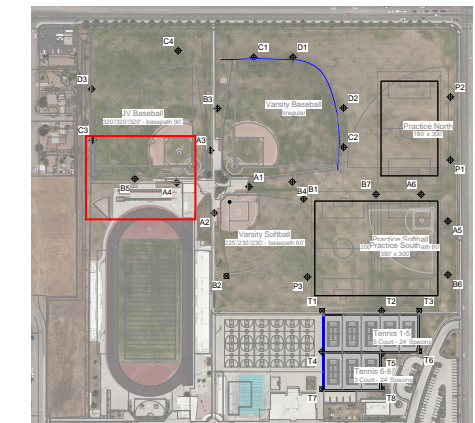
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	14.9
Maximum:	34
Minimum:	4
Avg / Min:	3.85
Max / Min:	8.67
UG (adjacent pts):	1.84
CU:	0.01
No. of Points:	48
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	42
Total Load:	50.97 kW

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

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

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

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

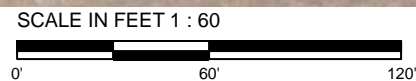
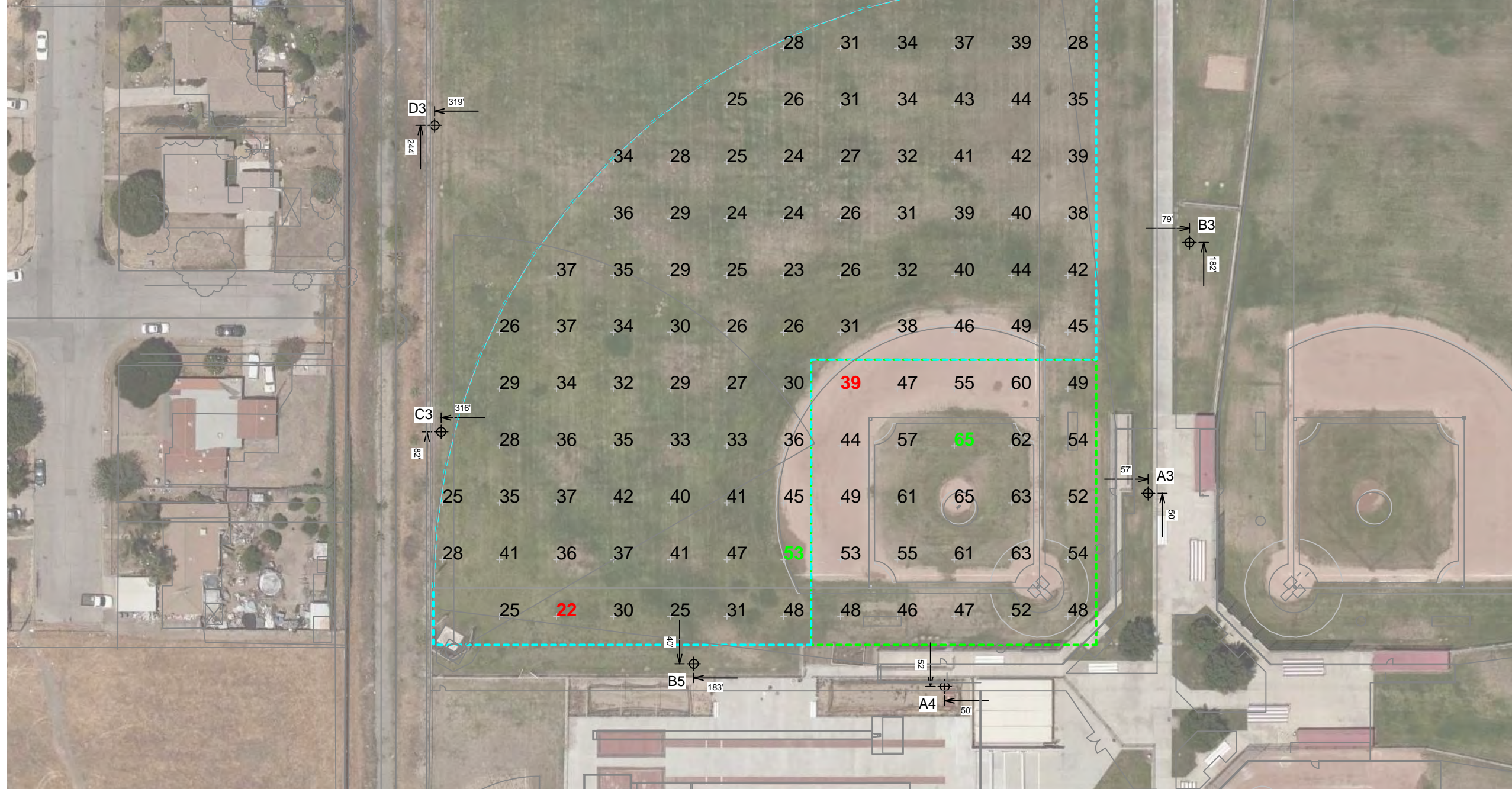


Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS		
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1		
				70'	TLC-LED-1200	4/4*	4	4		
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	4	4	0		
1	B3	80'	-	21.5'	TLC-BT-575	1	1	0		
				15.5'	TLC-BT-575	1	0	1		
				80'	TLC-LED-1500	8/8*	8	8		
1	B5	80'	-	80'	TLC-LED-900	2	2	0		
				15.5'	TLC-BT-575	1	1	0		
				80'	TLC-LED-1500	6	6	0		
1	C3	70'	-	70'	TLC-LED-1500	3	3	0		
				15.5'	TLC-BT-575	1	1	0		
				70'	TLC-LED-1200	1	1	0		
1	C4	80'	-	80'	TLC-LED-1500	3	3	0		
				15.5'	TLC-BT-575	1	1	0		
				80'	TLC-LED-900	1	1	0		
1	D3	70'	-	70'	TLC-LED-1500	4	4	0		
7	TOTALS						56	42	14	

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



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

GRID SUMMARY	
Name:	JV Baseball
Size:	320'/320'/320' - basepath 90'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

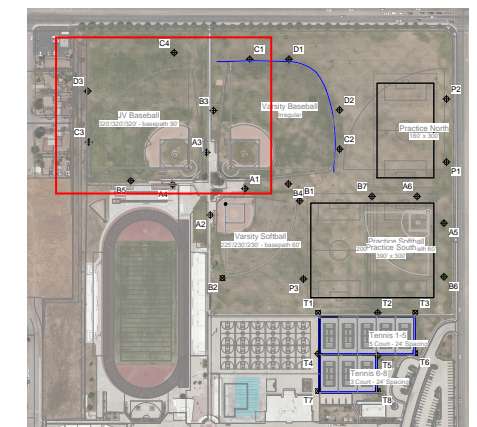
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	54.0	33.7
Maximum:	65	53
Minimum:	39	22
Avg / Min:	1.39	1.50
Guaranteed Max / Min:	2	2.5
Max / Min:	1.67	2.36
UG (adjacent pts):	1.29	1.65
CU:	0.70	
No. of Points:	25	86
LUMINAIRE INFORMATION		
Applied Circuits:	C	
No. of Luminaires:	42	
Total Load:	50.97 kW	

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

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

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

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



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EQUIPMENT LIST FOR AREAS SHOWN										
Pole				Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS		
1	A3	70'	-	15.5'	TLC-BT-575	1/1*	1	1	1	
				70'	TLC-LED-1200	4/4*	4	4	4	
1	A4	70'	-	15.5'	TLC-BT-575	1	1	0	0	
				70'	TLC-LED-1200	4	4	0	0	
1	B3	80'	-	21.5'	TLC-BT-575	1	1	0	0	
				15.5'	TLC-BT-575	1	0	1	1	
				80'	TLC-LED-1500	8/8*	8	8	8	
1	B5	80'	-	80'	TLC-LED-900	2	2	0	0	
				15.5'	TLC-BT-575	1	1	0	0	
				80'	TLC-LED-1500	6	6	0	0	
1	C3	70'	-	70'	TLC-LED-1500	3	3	0	0	
				15.5'	TLC-BT-575	1	1	0	0	
				70'	TLC-LED-1200	1	1	0	0	
1	C4	80'	-	80'	TLC-LED-1500	3	3	0	0	
				15.5'	TLC-BT-575	1	1	0	0	
				80'	TLC-LED-900	1	1	0	0	
1	D3	70'	-	70'	TLC-LED-1500	4	4	0	0	
7	TOTALS						56	42	14	

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



GRID SUMMARY	
Name:	JV Baseball Blanket Grid
Size:	320'/320'/320' - basepath 90'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

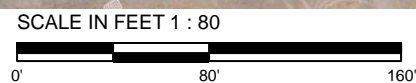
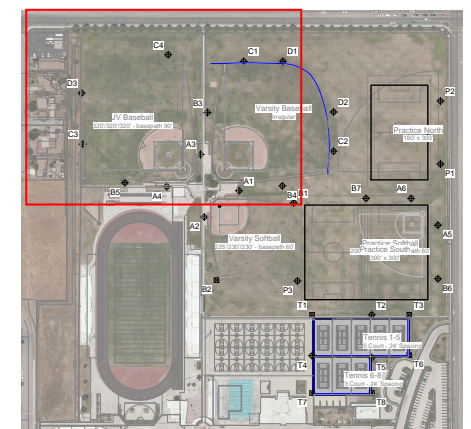
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	26.6
Maximum:	65
Minimum:	0
Avg / Min:	110.81
Max / Min:	272.23
UG (adjacent pts):	5.38
CU:	0.67
No. of Points:	154
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	42
Total Load:	50.97 kW

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

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

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

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



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



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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	T1	60'	-	60'	TLC-LED-1200	1	1	0	
				60'	TLC-LED-900	2	2	0	
1	T2	80'	-	60'	TLC-LED-900	2	2	0	
				60'	TLC-LED-1200	2	2	0	
				80'	TLC-LED-1500	6	0	6	
2	T3, T6	60'	-	60'	TLC-LED-900	3	3	0	
1	T4	60'	-	60'	TLC-LED-1200	5	2	3	
				60'	TLC-LED-900	1	1	0	
1	T5	60'	-	60'	TLC-LED-1200	3/3*	3	3	
				60'	TLC-LED-900	1	1	0	
6	TOTALS					32	20	12	

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

GRID SUMMARY	
Name:	Tennis 1-5
Size:	5 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

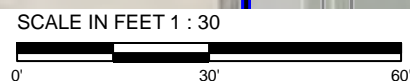
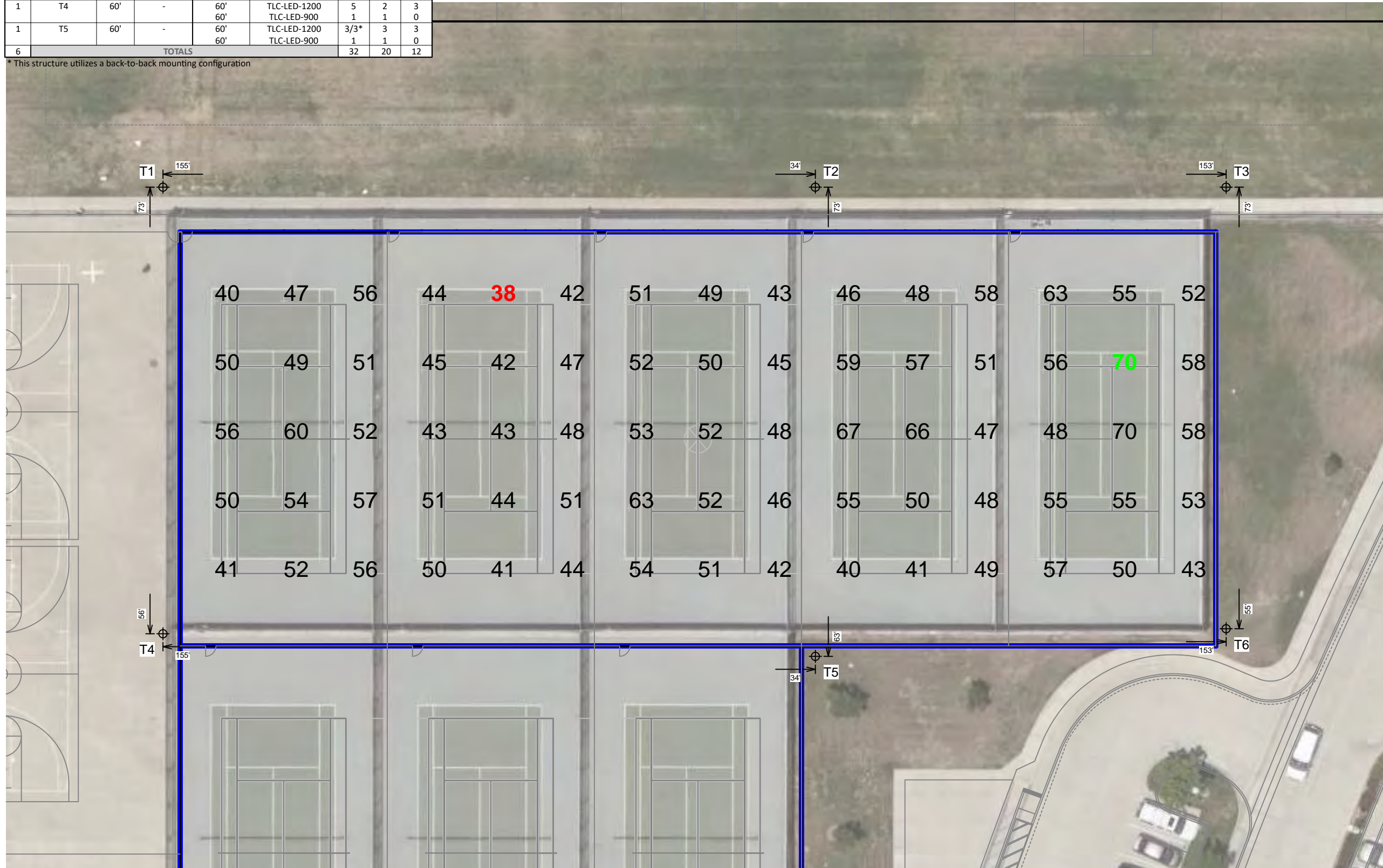
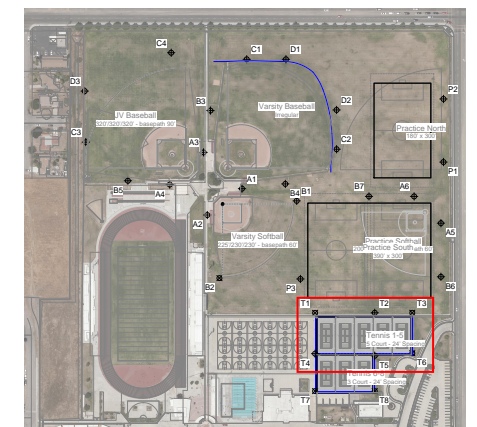
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	50
Scan Average:	51.0
Maximum:	70
Minimum:	38
Avg / Min:	1.35
Guaranteed Max / Min:	2
Max / Min:	1.87
UG (adjacent pts):	0.00
CU:	0.69
No. of Points:	75
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	20
Total Load:	20.04 kW

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

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

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

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

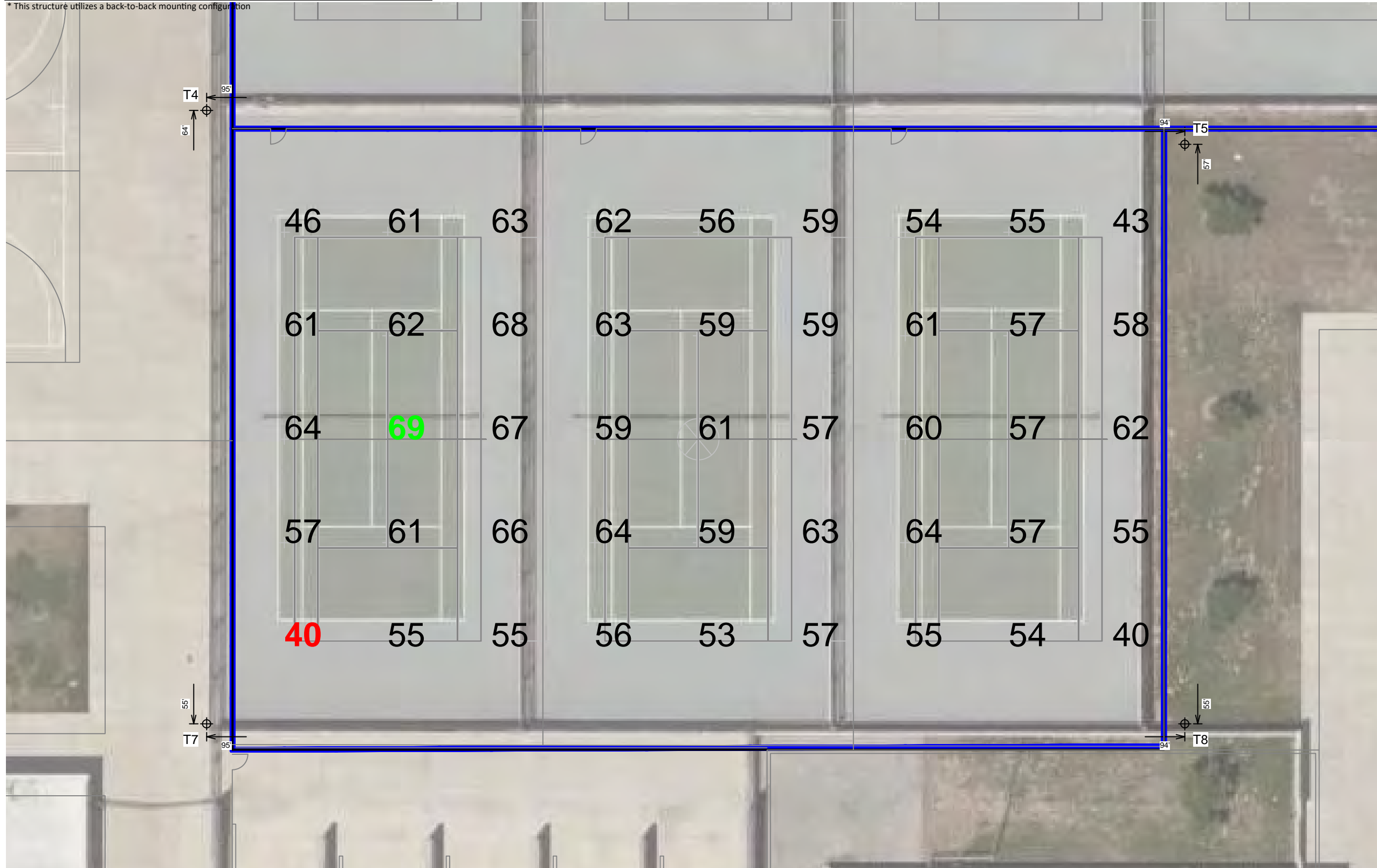


Pole location(s) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	T4	60'	0'	60'	TLC-LED-1200	5	3	2
				60'	TLC-LED-900	1	0	1
1	T5	60'	0'	60'	TLC-LED-1200	3/3*	3	3
				60'	TLC-LED-900	1	0	1
2	T7-T8	60'	-	60'	TLC-LED-1200	3	3	0
4	TOTALS					19	12	7

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



GRID SUMMARY	
Name:	Tennis 6-8
Size:	3 Court - 24' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

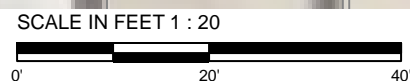
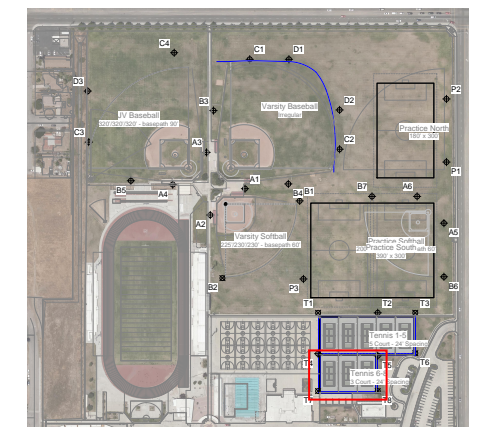
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	50
Scan Average:	58.1
Maximum:	69
Minimum:	40
Avg / Min:	1.46
Guaranteed Max / Min:	2
Max / Min:	1.74
UG (adjacent pts):	0.00
CU:	0.65
No. of Points:	45
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	12
Total Load:	14.04 kW

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

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

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

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



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



EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A5-A6	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-900	2	2	0
2	B6-B7	80'	-	80'	TLC-LED-1200	8	8	0
4	TOTALS					22	22	0

**Indian Springs High School Athletic Playfields
San Bernardino, CA**

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

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Scan Average:	51.3	33.8
Maximum:	59	46
Minimum:	44	20
Avg / Min:	1.15	1.69
Max / Min:	1.34	2.27
UG (adjacent pts):	1.17	1.27
CU:	0.53	
No. of Points:	25	73

LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	22
Total Load:	24.62 kW

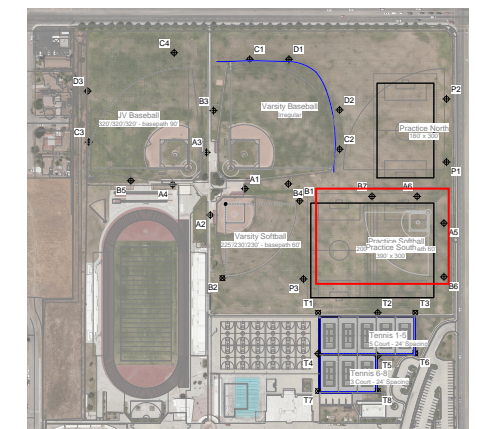


Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

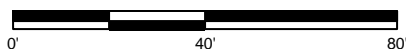
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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 : 40



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



EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A5-A6	70'	-3'	67'	TLC-LED-1200	1	1	0	
				67'	TLC-LED-900	2	2	0	
1	B1	80'	-	15.5'	TLC-BT-575	2	0	2	
				80'	TLC-LED-1500	5/4*	4	5	
2	B6-B7	80'	-3'	77'	TLC-LED-1200	8	8	0	
1	P3	70'	-	70'	TLC-LED-1500	5	5	0	
1	T2	80'	0'	60'	TLC-LED-900	2	0	2	
				60'	TLC-LED-1200	2	0	2	
				80'	TLC-LED-1500	6	6	0	
7	TOTALS					48	37	11	

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



GRID SUMMARY	
Name:	Practice South
Size:	390' x 300'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

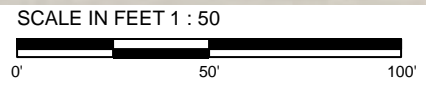
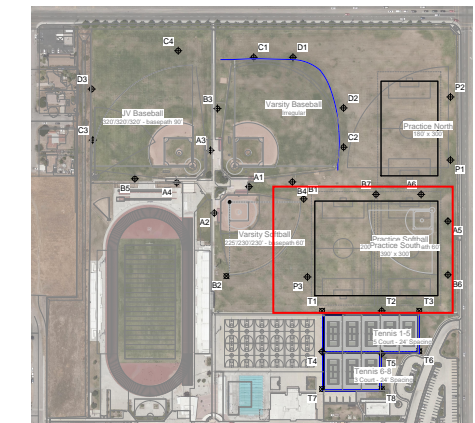
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	30.1
Maximum:	42
Minimum:	21
Avg / Min:	1.41
Max / Min:	1.98
UG (adjacent pts):	1.57
CU:	0.66
No. of Points:	130
LUMINAIRE INFORMATION	
Applied Circuits:	F, H
No. of Luminaires:	37
Total Load:	46.07 kW

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.



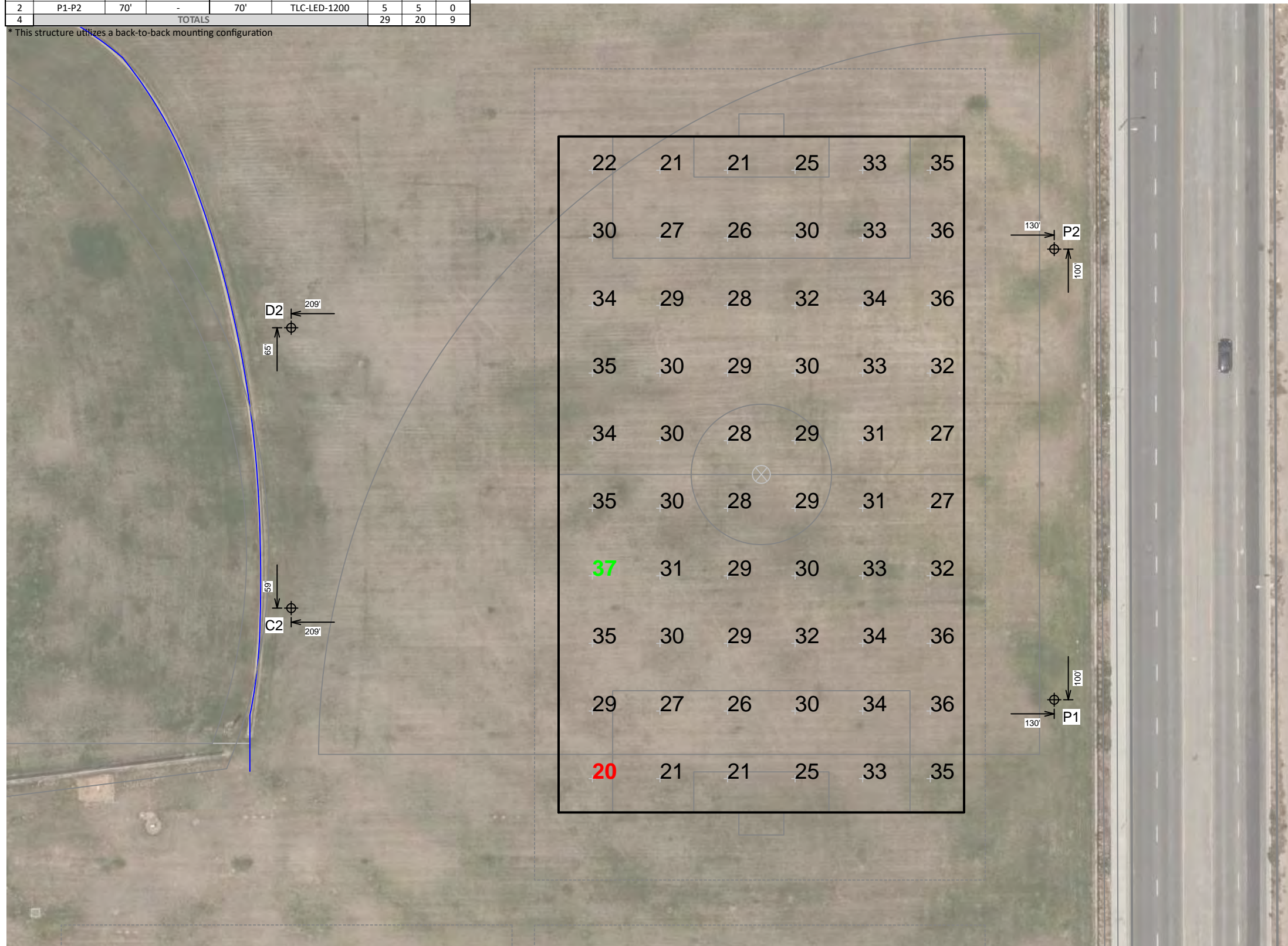
Pole location(s) Ⓢ dimensions are relative to 0,0 reference point(s) ⊗

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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	C2	80'	-	80'	TLC-LED-900	1	0	1
				15.5'	TLC-BT-575	1	0	1
				80'	TLC-LED-1200	2/5*	5	2
1	D2	80'	-	80'	TLC-LED-900	1	0	1
				15.5'	TLC-BT-575	1	0	1
				80'	TLC-LED-1200	3/5*	5	3
2	P1-P2	70'	-	70'	TLC-LED-1200	5	5	0
4	TOTALS					29	20	9

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



GRID SUMMARY	
Name:	Practice North
Size:	180' x 300'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

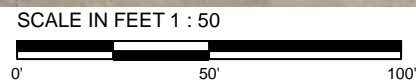
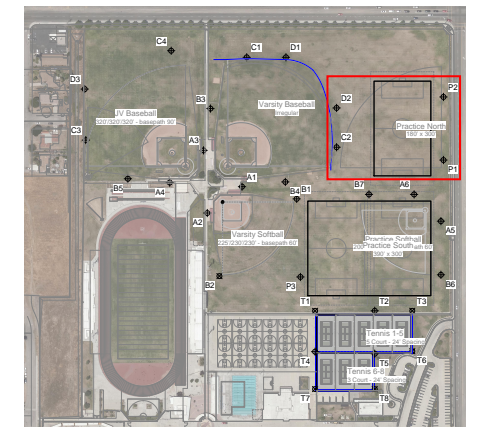
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	30.1
Maximum:	37
Minimum:	20
Avg / Min:	1.48
Max / Min:	1.81
UG (adjacent pts):	1.45
CU:	0.59
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	G
No. of Luminaires:	20
Total Load:	23.4 kW

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

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

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

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



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



GRID SUMMARY	
Name:	Del Rosa Drive Spill
Spacing:	30.0'
Height:	3.0' above grade

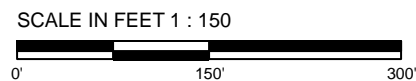
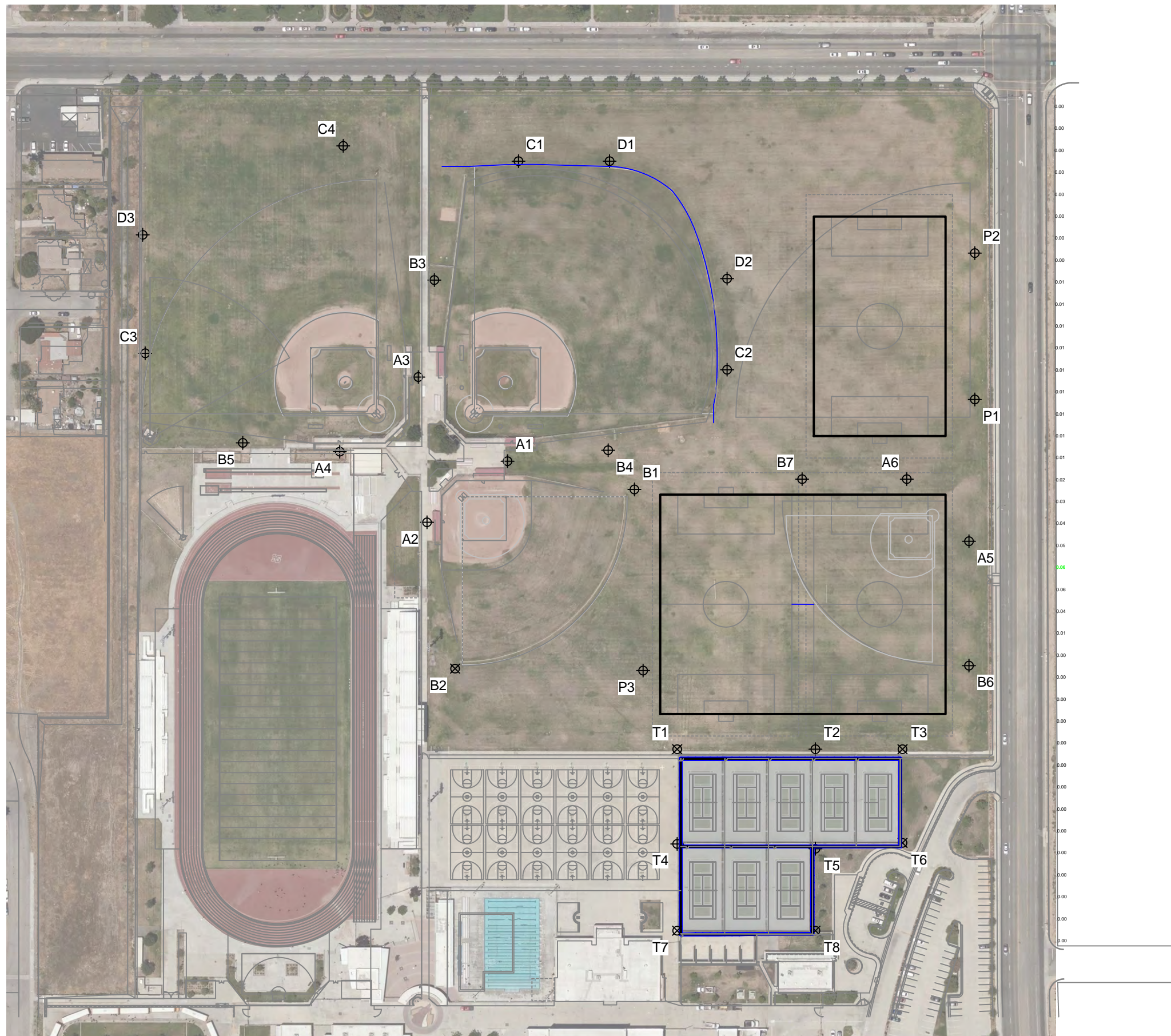
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.010
Maximum:	0.06
Minimum:	0.00
No. of Points:	39
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

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

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



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



GRID SUMMARY	
Name:	Del Rosa Drive Spill
Spacing:	30.0'
Height:	3.0' above grade

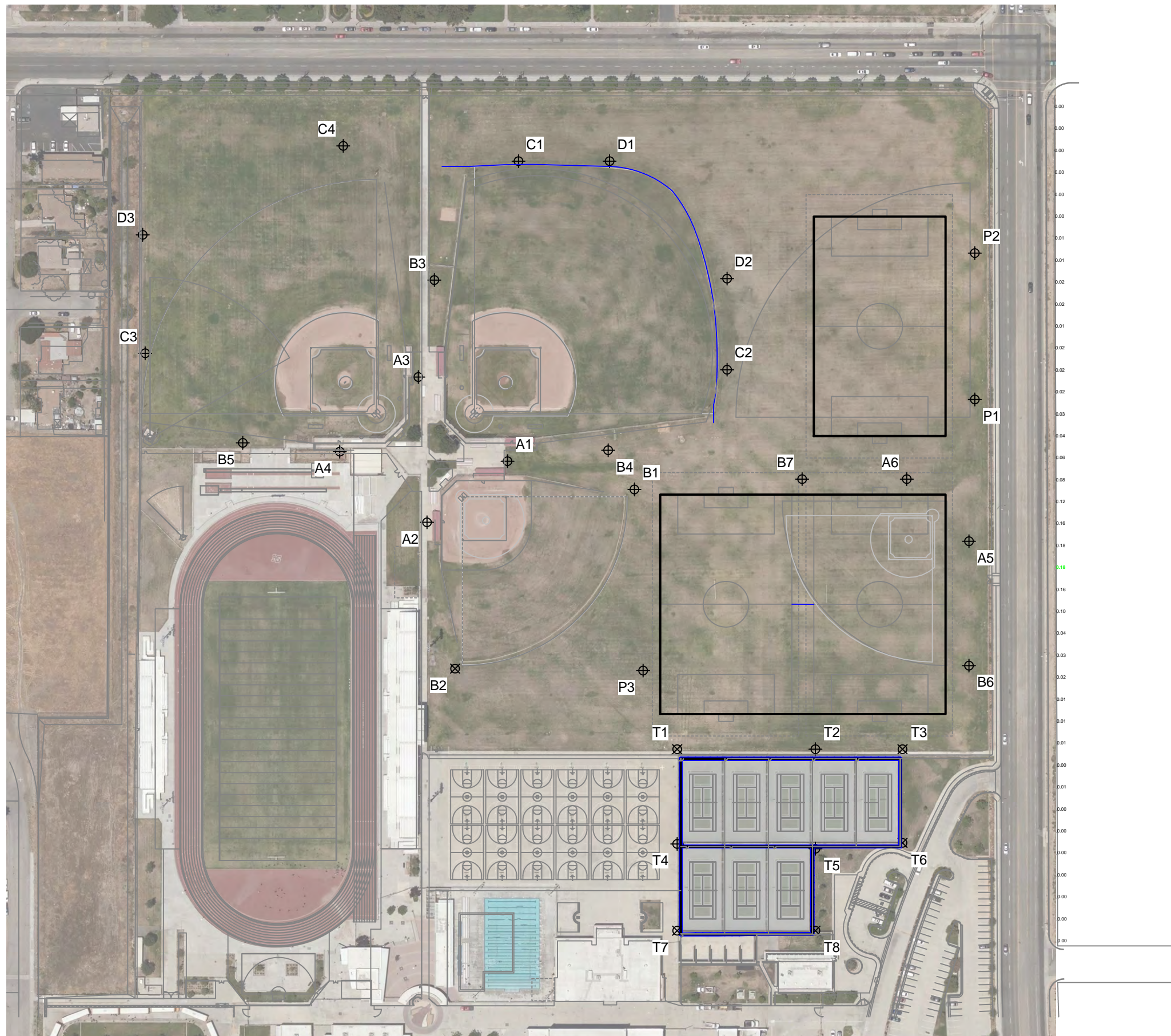
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Entire Grid	0.035
Scan Average:	0.18
Maximum:	0.00
Minimum:	39
No. of Points:	
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

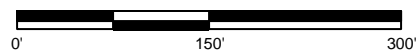
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 150



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



GRID SUMMARY	
Name:	Del Rosa Drive Spill
Spacing:	30.0'
Height:	3.0' above grade

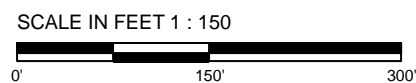
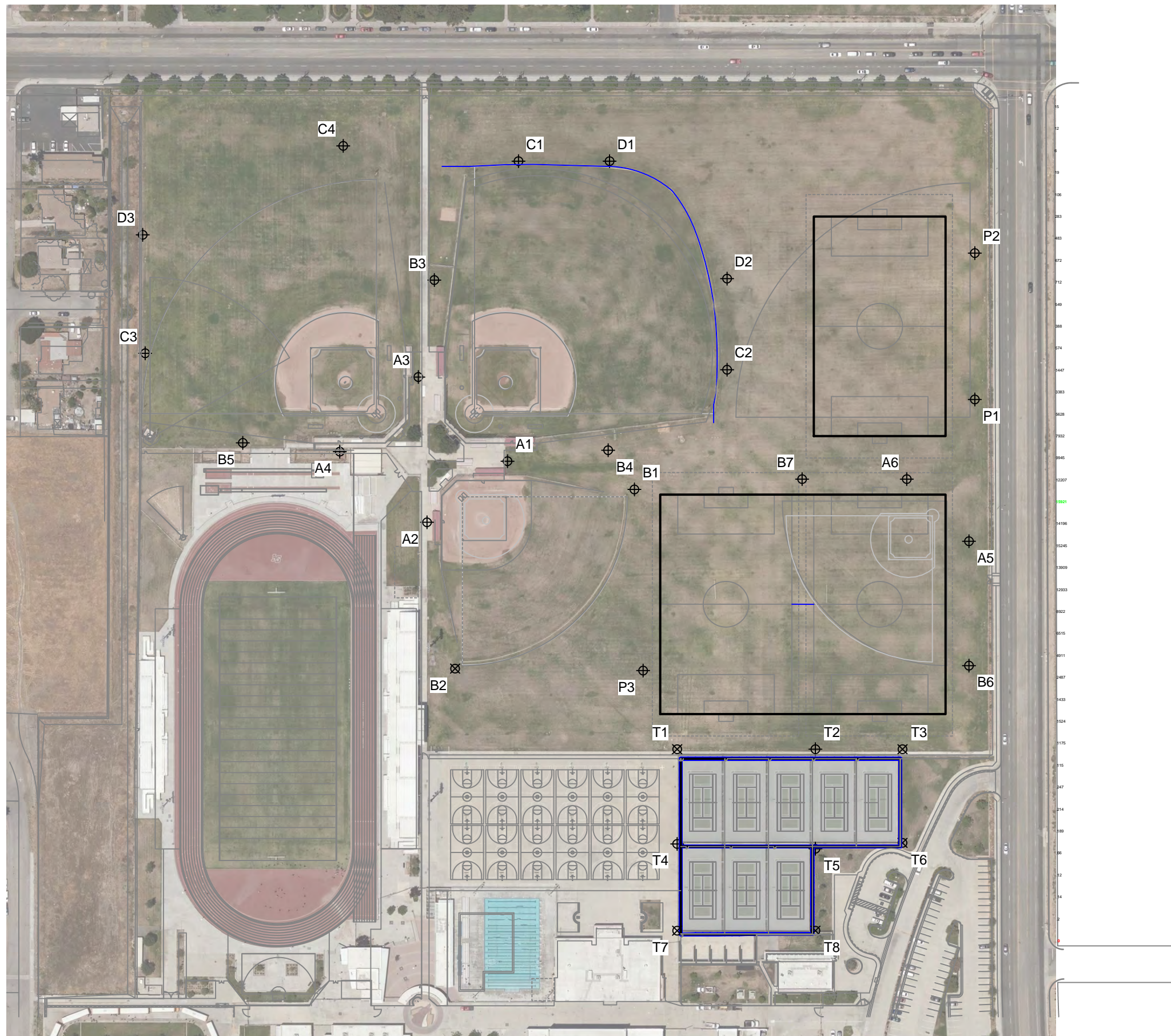
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 3702.271
Maximum:	15921.38
Minimum:	0.44
No. of Points:	39
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

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

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



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



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GRID SUMMARY	
Name:	9th St. Spill
Spacing:	30.0'
Height:	3.0' above grade

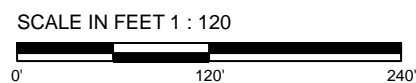
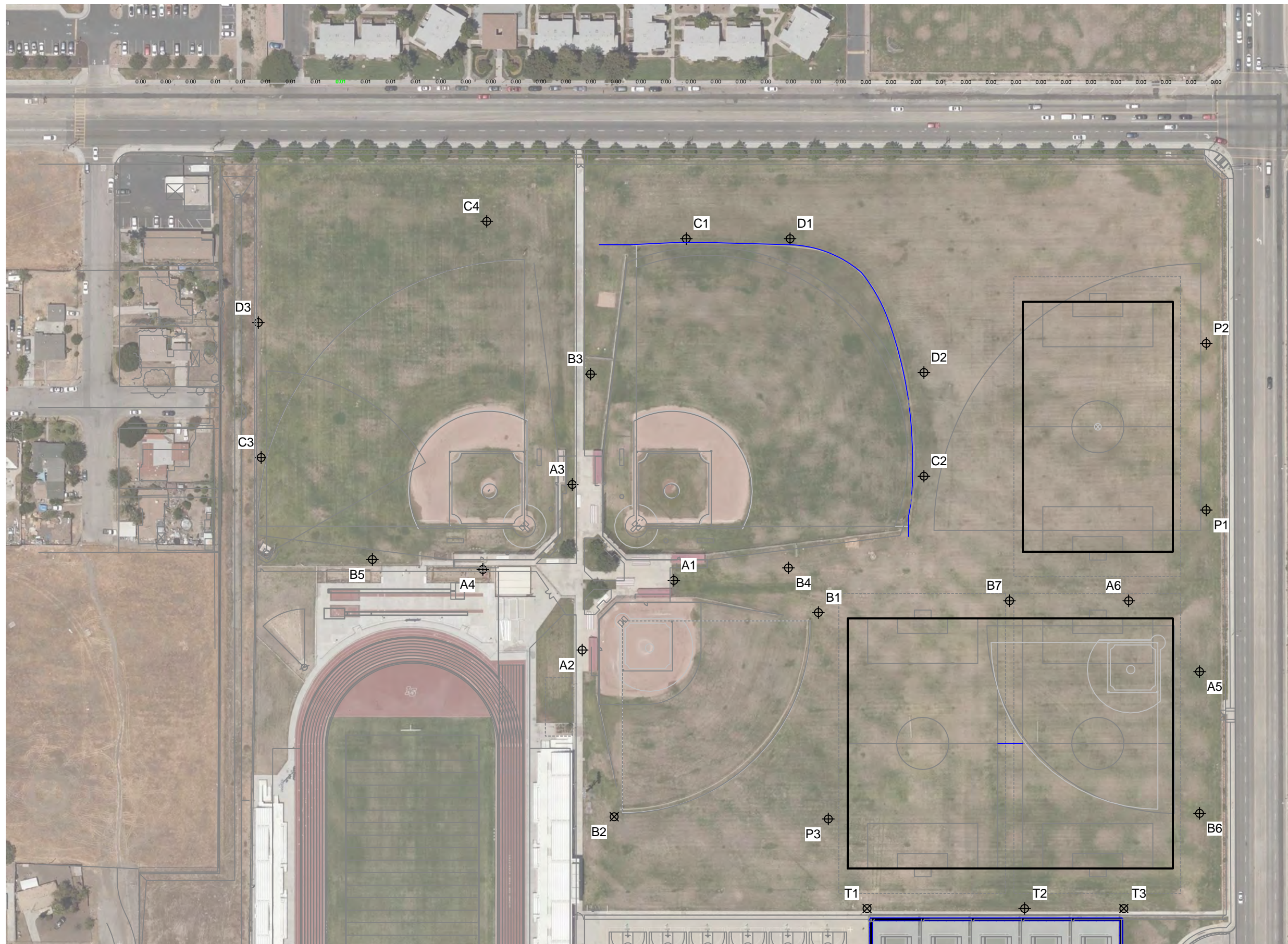
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.004
Maximum:	0.01
Minimum:	0.00
No. of Points:	44
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

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

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



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



GRID SUMMARY	
Name:	9th St. Spill
Spacing:	30.0'
Height:	3.0' above grade

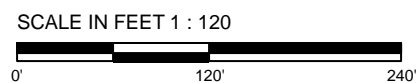
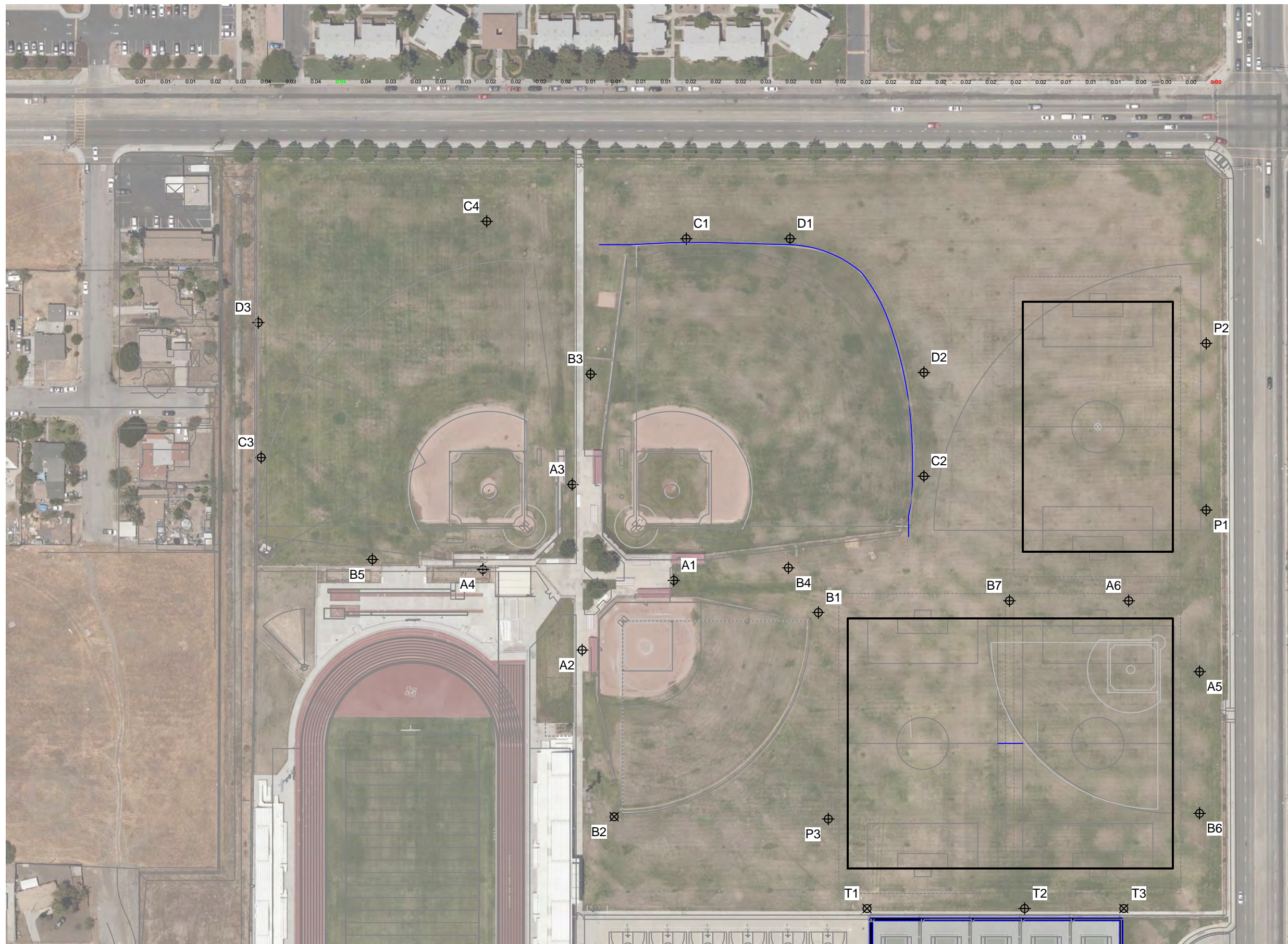
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.020
Maximum:	0.04
Minimum:	0.00
No. of Points:	44
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

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

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



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



GRID SUMMARY	
Name:	9th St. Spill
Spacing:	30.0'
Height:	3.0' above grade

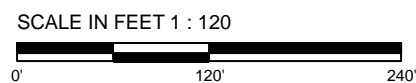
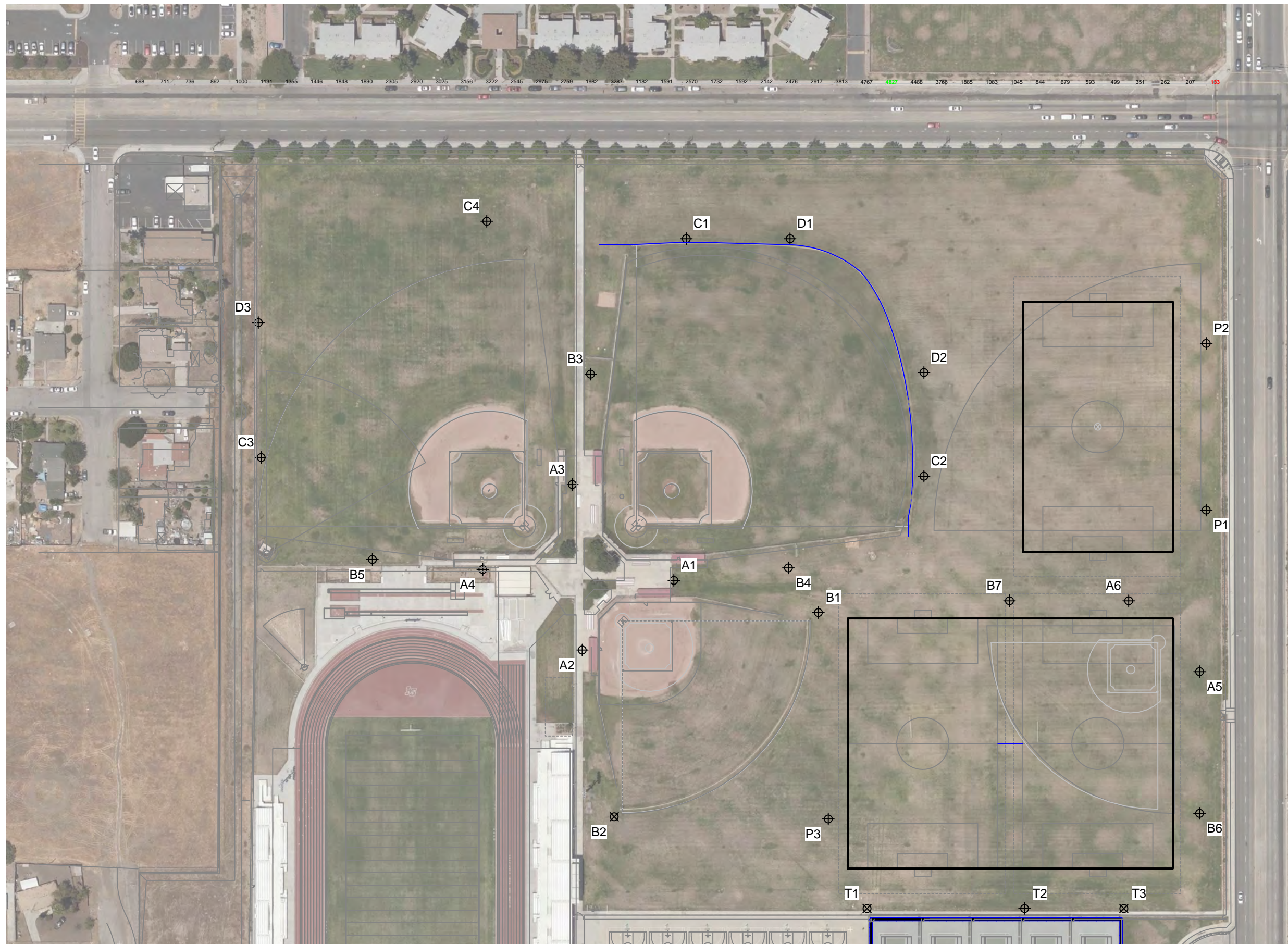
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1938.517
Maximum:	4826.51
Minimum:	132.73
No. of Points:	44
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

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

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



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



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

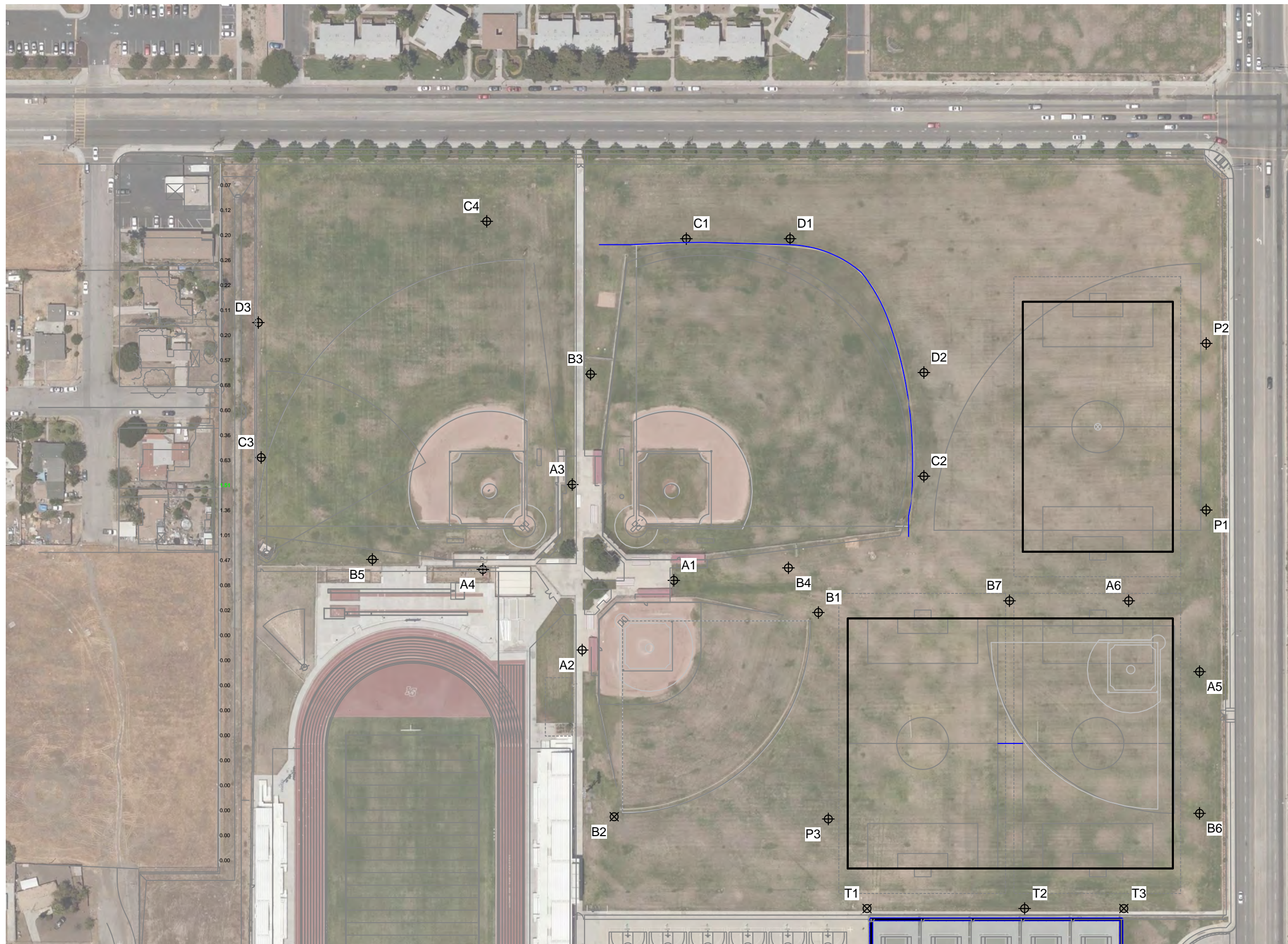
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.302
Maximum:	1.51
Minimum:	0.00
No. of Points:	28
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

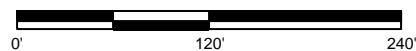
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 120



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



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

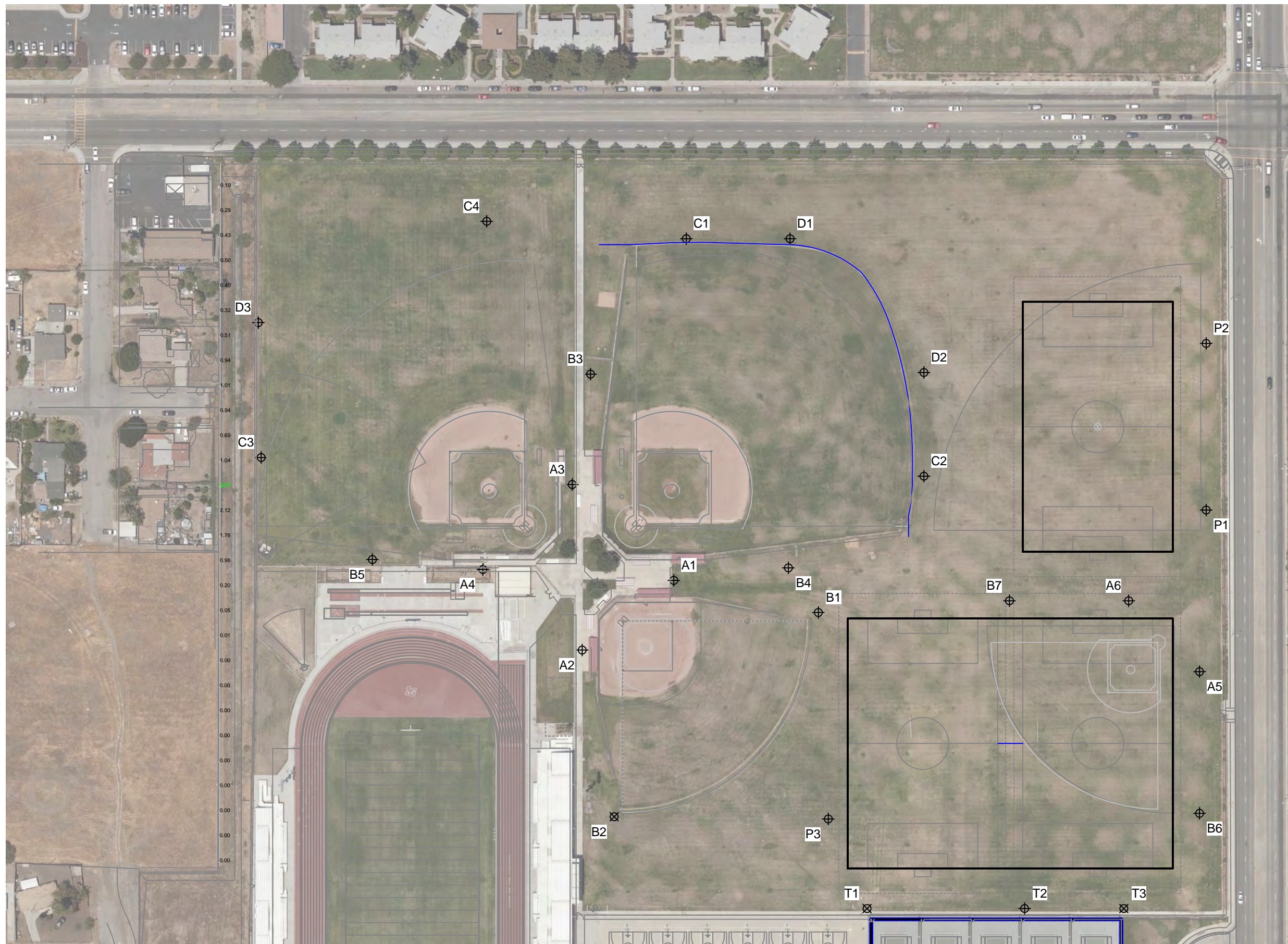
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.520
Maximum:	2.17
Minimum:	0.00
No. of Points:	28
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

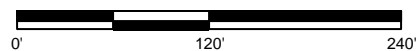
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 120



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



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

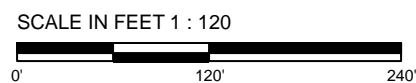
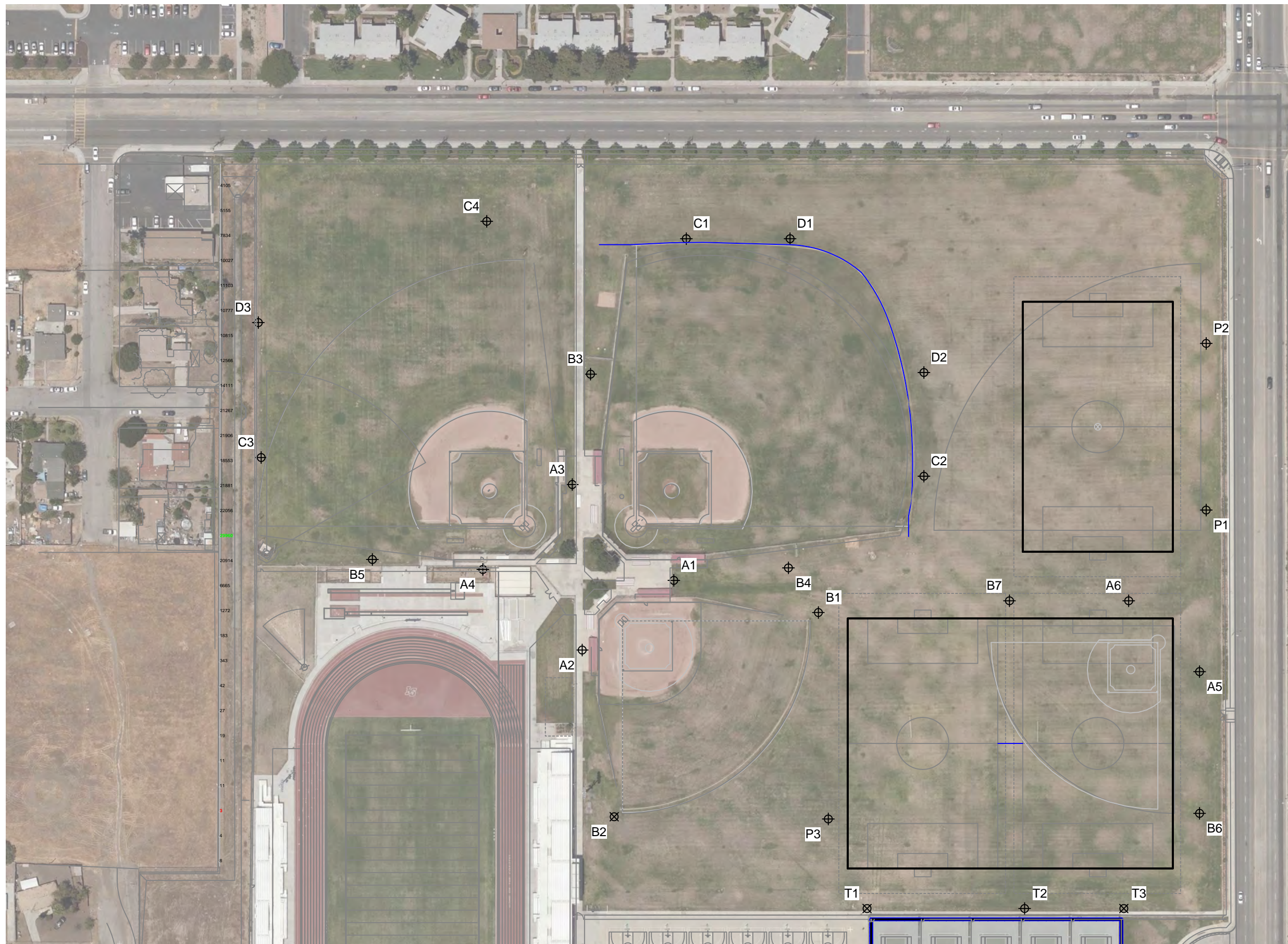
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 8986.342
Maximum:	29960.09
Minimum:	2.65
No. of Points:	28
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

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

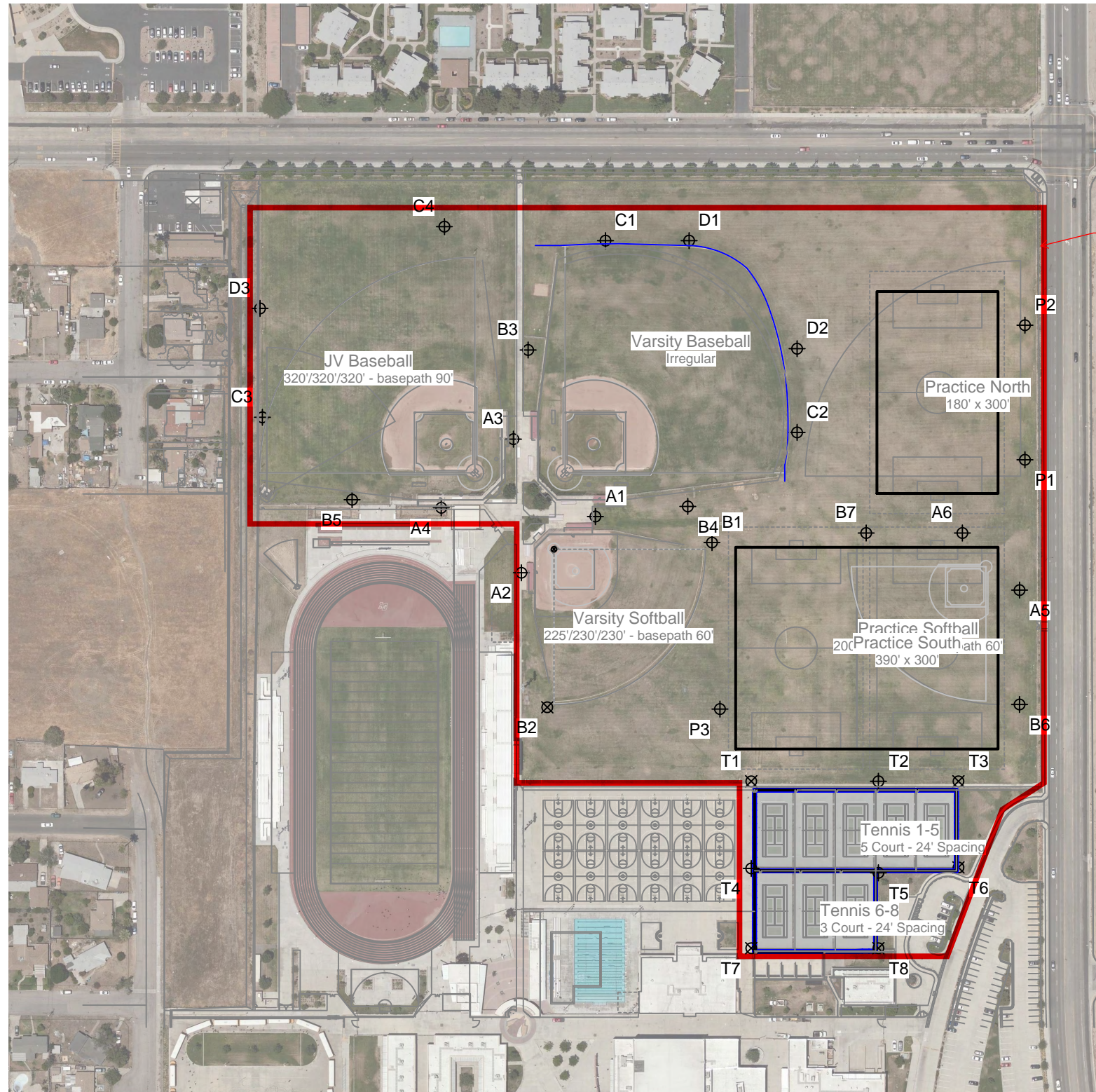
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



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





AREA OF WORK

EQUIPMENT LAYOUT

INCLUDES:

- JV Baseball
- Practice North
- Practice Softball
- Practice South
- Tennis 1-5
- Tennis 6-8
- Varsity Baseball
- Varsity Softball

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

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

SINGLE LUMINAIRE AMPERAGE DRAW CHART

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

SCALE IN FEET 1 : 200



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



Indian Springs High School Athletic Playfields
San Bernardino, CA

GRID SUMMARY	
Name:	Grid
Size:	5 Court - 24' Spacing
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	2.0
Maximum:	47
Minimum:	0
Avg / Min:	5225.76
Max / Min:	120378.45
UG (adjacent pts):	4.23
CU:	0.01
No. of Points:	1166
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F, G, H
No. of Luminaires:	199
Total Load:	231.39 kW

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

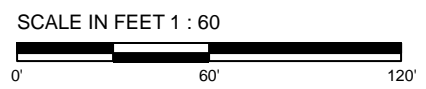
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



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



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

