

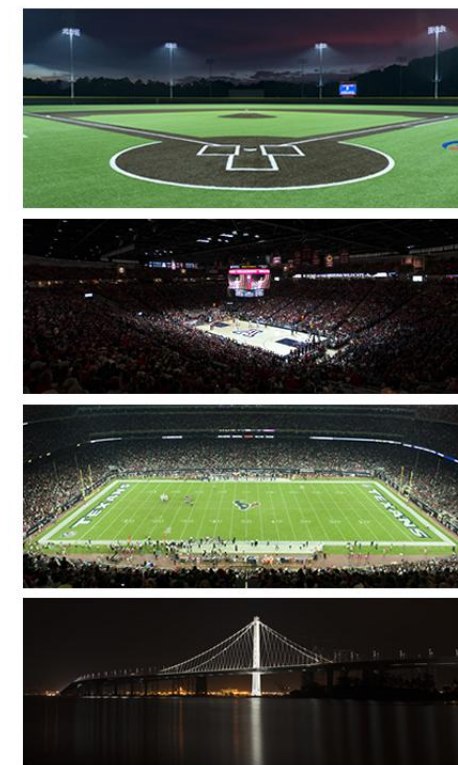
# Jack Allen Softball Complex

Decatur, AL

## Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1	60'	60'	3	TLC-LED-900	2.64 kW	C
		60'	3	TLC-LED-900	2.64 kW	B
A2	60'	60'	3	TLC-LED-900	2.64 kW	B
		60'	3	TLC-LED-900	2.64 kW	A
A3	60'	60'	3	TLC-LED-900	2.64 kW	A
		60'	3	TLC-LED-900	2.64 kW	D
A4	60'	60'	3	TLC-LED-900	2.64 kW	C
		60'	3	TLC-LED-900	2.64 kW	D
A5	60'	60'	1	TLC-LED-1200	1.17 kW	G
		60'	2	TLC-LED-900	1.76 kW	G
		16'	1	TLC-BT-575	0.57 kW	G
A6	60'	60'	2	TLC-LED-900	1.76 kW	E
		60'	1	TLC-LED-1200	1.17 kW	E
		16'	1	TLC-BT-575	0.57 kW	E
A7	60'	60'	2	TLC-LED-900	1.76 kW	F
		60'	1	TLC-LED-1200	1.17 kW	F
		16'	1	TLC-BT-575	0.57 kW	F
A8	60'	60'	2	TLC-LED-900	1.76 kW	J
		60'	2	TLC-LED-900	1.76 kW	H
		60'	1	TLC-LED-1200	1.17 kW	J
		60'	1	TLC-LED-1200	1.17 kW	H
		16'	1	TLC-BT-575	0.57 kW	J
		16'	1	TLC-BT-575	0.57 kW	H
A9	60'	60'	2	TLC-LED-900	1.76 kW	I
		60'	1	TLC-LED-1200	1.17 kW	I
		16'	1	TLC-BT-575	0.57 kW	I
A10	60'	60'	2	TLC-LED-900	1.76 kW	K
		60'	1	TLC-LED-1200	1.17 kW	K
		16'	1	TLC-BT-575	0.57 kW	K
A11	60'	60'	1	TLC-LED-1200	1.17 kW	L
		60'	2	TLC-LED-900	1.76 kW	L
		16'	1	TLC-BT-575	0.57 kW	L
B1	70'	70'	2	TLC-LED-1500	2.82 kW	C
		70'	2	TLC-LED-1200	2.34 kW	C
		70'	2	TLC-LED-1200	2.34 kW	B
		70'	1	TLC-LED-900	0.88 kW	B
		70'	2	TLC-LED-1500	2.82 kW	B
		70'	1	TLC-LED-900	0.88 kW	C
		16'	1	TLC-BT-575	0.57 kW	C
		16'	1	TLC-BT-575	0.57 kW	B
B2	70'	70'	2	TLC-LED-1500	2.82 kW	B
		70'	2	TLC-LED-1500	2.82 kW	A
		70'	2	TLC-LED-1200	2.34 kW	B
		70'	2	TLC-LED-1200	2.34 kW	A
		70'	1	TLC-LED-550	0.54 kW	B
		70'	1	TLC-LED-550	0.54 kW	A
		16'	1	TLC-BT-575	0.57 kW	B
		16'	1	TLC-BT-575	0.57 kW	A
B3	70'	70'	2	TLC-LED-1200	2.34 kW	A
		70'	1	TLC-LED-550	0.54 kW	D
		70'	2	TLC-LED-1200	2.34 kW	D
		70'	2	TLC-LED-1500	2.82 kW	A
		70'	2	TLC-LED-1500	2.82 kW	D
		70'	1	TLC-LED-550	0.54 kW	A
		16'	1	TLC-BT-575	0.57 kW	A
		16'	1	TLC-BT-575	0.57 kW	D
B4	70'	70'	1	TLC-LED-900	0.88 kW	C
		70'	2	TLC-LED-1200	2.34 kW	D
		70'	2	TLC-LED-1500	2.82 kW	C
		70'	2	TLC-LED-1500	2.82 kW	D
		70'	1	TLC-LED-900	0.88 kW	D
		70'	2	TLC-LED-1200	2.34 kW	C
		16'	1	TLC-BT-575	0.57 kW	D
		16'	1	TLC-BT-575	0.57 kW	C
B5	70'	70'	3	TLC-LED-1200	3.51 kW	E
		70'	2	TLC-LED-1500	2.82 kW	E
		70'	1	TLC-LED-550	0.54 kW	E
		16'	1	TLC-BT-575	0.57 kW	E
B6	80'	80'	1	TLC-LED-550	0.54 kW	E
		80'	5	TLC-LED-1500	7.05 kW	F
		80'	3	TLC-LED-1500	4.23 kW	E
		80'	2	TLC-LED-1200	2.34 kW	E
		80'	1	TLC-LED-550	0.54 kW	F

## From Hometown to Professional



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# Jack Allen Softball Complex

Decatur, AL

## Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
		16'	1	TLC-BT-575	0.57 kW	F
		16'	1	TLC-BT-575	0.57 kW	E
B7	80'	80'	6	TLC-LED-1500	8.46 kW	F
		80'	2	TLC-LED-1200	2.34 kW	I
		80'	4	TLC-LED-1500	5.64 kW	I
		16'	1	TLC-BT-575	0.57 kW	F
		16'	1	TLC-BT-575	0.57 kW	I
B8	80'	80'	1	TLC-LED-1200	1.17 kW	K
		80'	1	TLC-LED-1200	1.17 kW	I
		80'	1	TLC-LED-550	0.54 kW	I
		80'	1	TLC-LED-550	0.54 kW	K
		80'	4	TLC-LED-1500	5.64 kW	K
		80'	4	TLC-LED-1500	5.64 kW	I
		16'	1	TLC-BT-575	0.57 kW	K
		16'	1	TLC-BT-575	0.57 kW	I
B9	70'	70'	1	TLC-LED-1200	1.17 kW	K
		70'	1	TLC-LED-550	0.54 kW	K
		70'	4	TLC-LED-1500	5.64 kW	K
		16'	1	TLC-BT-575	0.57 kW	K
C1	60'	60'	3	TLC-LED-1200	3.51 kW	B
		16'	2	TLC-BT-575	1.15 kW	B
C2	60'	60'	3	TLC-LED-1200	3.51 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
C3	60'	60'	3	TLC-LED-1200	3.51 kW	D
		16'	2	TLC-BT-575	1.15 kW	D
C4	60'	60'	3	TLC-LED-1200	3.51 kW	C
		16'	2	TLC-BT-575	1.15 kW	C
C5	60'	60'	1	TLC-LED-550	0.54 kW	E
		60'	1	TLC-LED-550	0.54 kW	F
		60'	2	TLC-LED-1500	2.82 kW	E
		60'	2	TLC-LED-1500	2.82 kW	F
		16'	1	TLC-BT-575	0.57 kW	E
		16'	1	TLC-BT-575	0.57 kW	F
C6	60'	60'	1	TLC-LED-550	0.54 kW	I
		60'	1	TLC-LED-550	0.54 kW	K
		60'	2	TLC-LED-1500	2.82 kW	I
		60'	2	TLC-LED-1500	2.82 kW	K
		16'	1	TLC-BT-575	0.57 kW	I
		16'	1	TLC-BT-575	0.57 kW	K
<b>26</b>			<b>196</b>		<b>199.76 kW</b>	

Circuit Summary				
Circuit	Description	Avg Load	Max Load	Fixture Qty
A	Field 1	22.49 kW	22.49 kW	23
B	Field 2	22.83 kW	22.83 kW	23
C	Field 3	23.17 kW	23.17 kW	23
D	Field 4	22.83 kW	22.83 kW	23
E	Field 5 / Soccer A	22.57 kW	22.57 kW	22
F	Field 6 / Soccer A	24.64 kW	24.64 kW	22
G	Field 5	3.51 kW	3.51 kW	4
H	Field 6	3.51 kW	3.50 kW	4
I	Field 7 / Soccer B	23.92 kW	23.92 kW	22
J	Field 7	3.51 kW	3.51 kW	4
K	Field 8 / Soccer B	23.29 kW	23.29 kW	22
L	Field 8	3.51 kW	3.51 kW	4

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	36
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	46
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	56
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	14
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	44



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**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-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
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		
Blanket Grid	Horizontal Illuminance	15.02	0	66	-	-	A,B,C,D,E,F,G	196
Field 1 (Infield)	Horizontal Illuminance	53.74	38	66	1.73	1.41	A	23
Field 1 (Outfield)	Horizontal Illuminance	31.47	24	47	1.99	1.33	A	23
Field 1 Bullpens	Horizontal	20.03	14	26	1.86	1.41	A	23
Field 2 (Infield)	Horizontal Illuminance	52.36	39	63	1.60	1.33	B	23
Field 2 (Outfield)	Horizontal Illuminance	31.93	25	47	1.91	1.30	B	23
Field 2 Pens/Cages	Horizontal	24.92	14	34	2.40	1.78	B	23
Field 3 (Infield)	Horizontal Illuminance	51.36	39	61	1.56	1.32	C	23
Field 3 (Outfield)	Horizontal Illuminance	32.08	23	48	2.07	1.38	C	23
Field 3 Pens/Cages	Horizontal	25.89	19	33	1.73	1.38	C	23
Field 4 (Infield)	Horizontal Illuminance	53.10	40	64	1.57	1.31	D	23
Field 4 (Outfield)	Horizontal Illuminance	31.56	25	48	1.94	1.27	D	23
Field 4 Pens/Cages	Horizontal	25.06	13	34	2.56	1.87	D	23
Field 5 (Infield)	Horizontal Illuminance	51.23	36	66	1.82	1.41	E,G	26
Field 5 (Outfield)	Horizontal Illuminance	31.61	24	44	1.85	1.34	E,G	26
Field 5 Bullpens	Horizontal	25.15	19	30	1.61	1.34	E,G	26
Field 5 Cage	Horizontal	31.59	24	37	1.57	1.34	E	22
Field 6 (Infield)	Horizontal Illuminance	51.68	37	67	1.80	1.39	F,H	26
Field 6 (Outfield)	Horizontal Illuminance	31.99	25	45	1.83	1.30	F,H	26
Field 6 Bullpens	Horizontal	30.16	22	40	1.81	1.38	F,H	26
Field 6 Cage	Horizontal	30.04	22	35	1.58	1.36	F	22
Field 7 (Infield)	Horizontal Illuminance	51.76	37	67	1.81	1.39	I,J	26
Field 7 (Outfield)	Horizontal Illuminance	30.97	23	45	1.91	1.32	I,J	26
Field 7 Bullpens	Horizontal	23.60	16	30	1.93	1.50	I,J	26
Field 7 Cage	Horizontal	30.33	22	35	1.58	1.35	I	22
Field 8 (Infield)	Horizontal Illuminance	52.15	38	65	1.71	1.37	K,L	26
Field 8 (Outfield)	Horizontal Illuminance	33.45	24	48	1.98	1.39	K,L	26
Field 8 Bullpens	Horizontal	27.14	22	33	1.52	1.23	K,L	26
Field 8 Cage	Horizontal	26.95	19	31	1.67	1.43	K	22
Soccer A	Horizontal Illuminance	31.09	24	46	1.93	1.30	E,F	44
Soccer B	Horizontal Illuminance	31.76	24	44	1.85	1.33	I,K	44



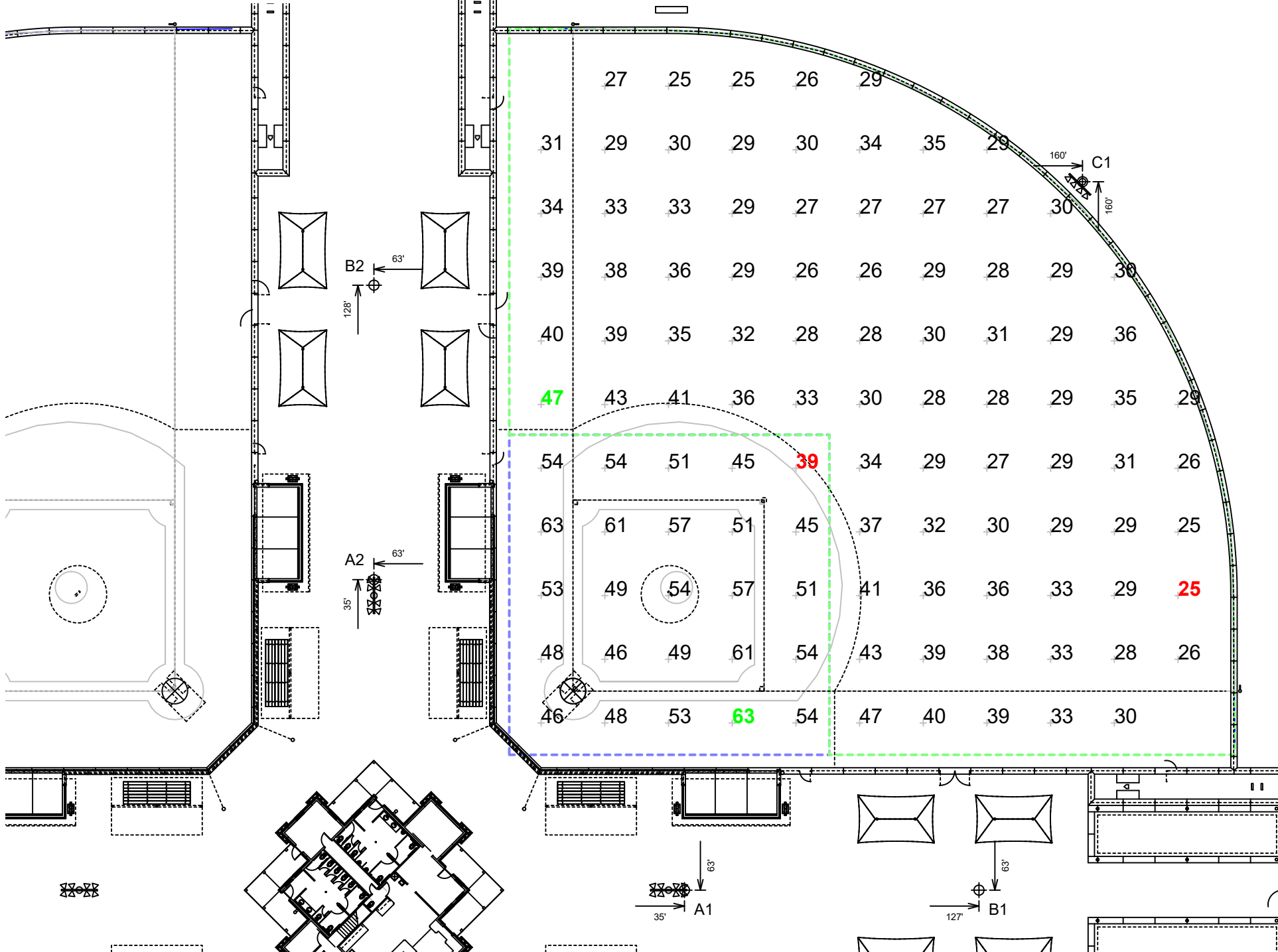
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**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	60'	TLC-LED-900	3/3*	3	3
1	B1	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	B2	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C1	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field

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



**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
<b>Name</b>	Field 2
<b>Size</b>	Irregular 208'/220'/208'
<b>Spacing</b>	20.0' x 20.0'
<b>Height</b>	3.0' above grade

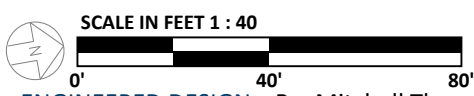
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
<b>Guaranteed Average</b>	<b>50</b>	<b>30</b>
Scan Average	52.36	31.93
Maximum	63	47
Minimum	39	25
Avg/Min	1.33	1.30
<b>Guaranteed Max/Min</b>	<b>2</b>	<b>2.5</b>
Max/Min	1.60	1.91
UG (adjacent pts)	1.26	1.29
CU	0.56	
No. of Points	25	82
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	B	
<b>No. of Luminaires</b>	<b>23</b>	
Total Load	22.83 kW	

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

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

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

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



ENGINEERED DESIGN By: Mitchell Thys • File #223169D\_1 • 10-Apr-24

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



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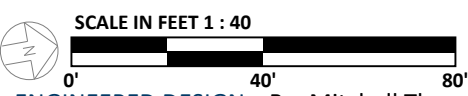
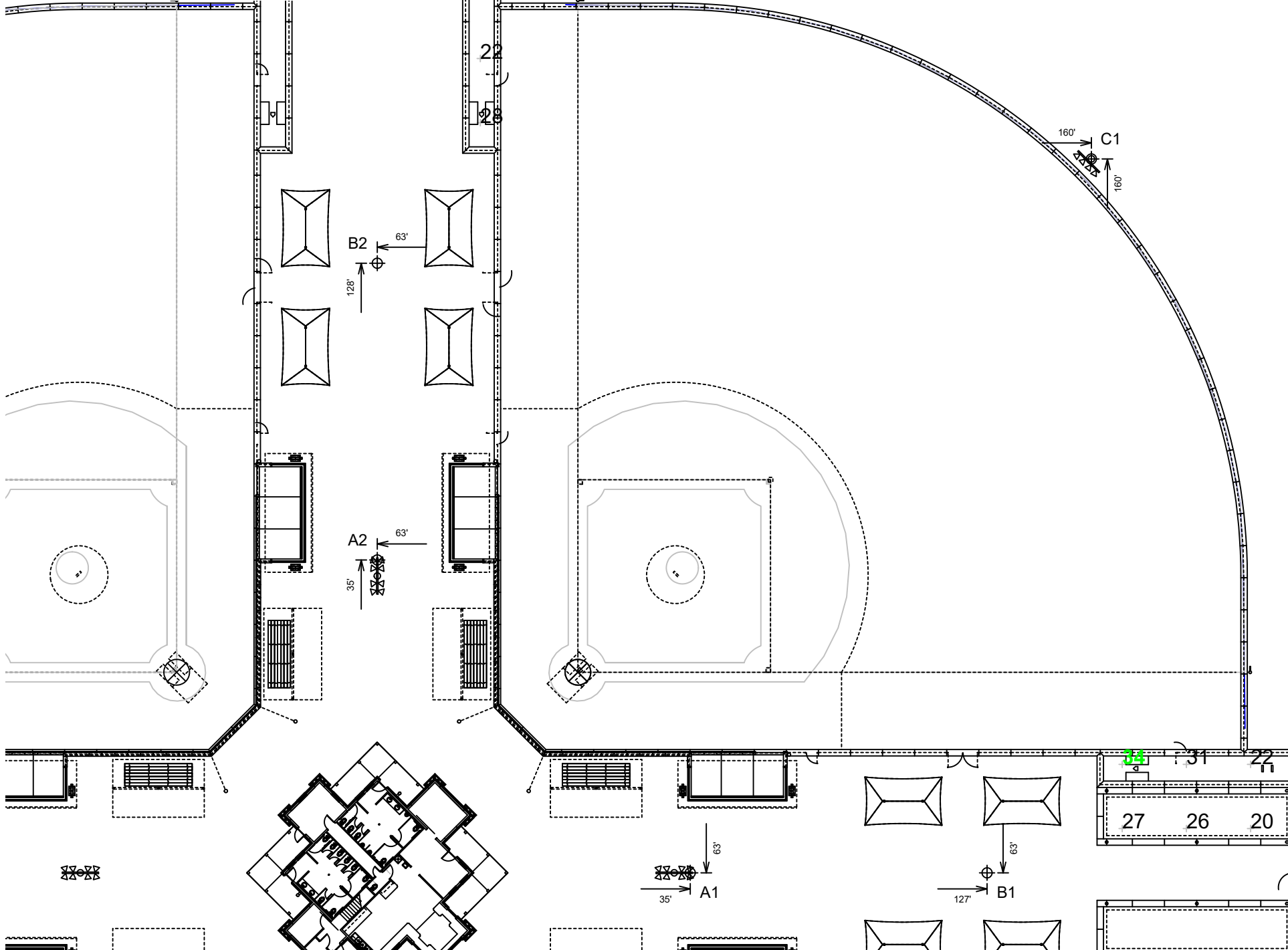
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**ILLUMINATION SUMMARY**

**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	60'	TLC-LED-900	3/3*	3	3
1	B1	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	B2	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C1	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



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

**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
Name	Field 2 Pens/Cages
Size	Irregular 208'/220'/208'
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	24.92
Maximum	34
Minimum	14
Avg/Min	1.78
Max/Min	2.40
CU	0.03
No. of Points	9
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	23
Total Load	22.83 kW

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

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

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

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



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**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
2	A2-A3	60'	-	60'	TLC-LED-900	3/3*	3	3
2	B2-B3	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C2	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration

**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
<b>Name</b>	Field 1
<b>Size</b>	Irregular 208'/220'/208'
<b>Spacing</b>	20.0' x 20.0'
<b>Height</b>	3.0' above grade

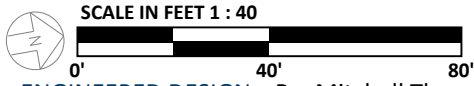
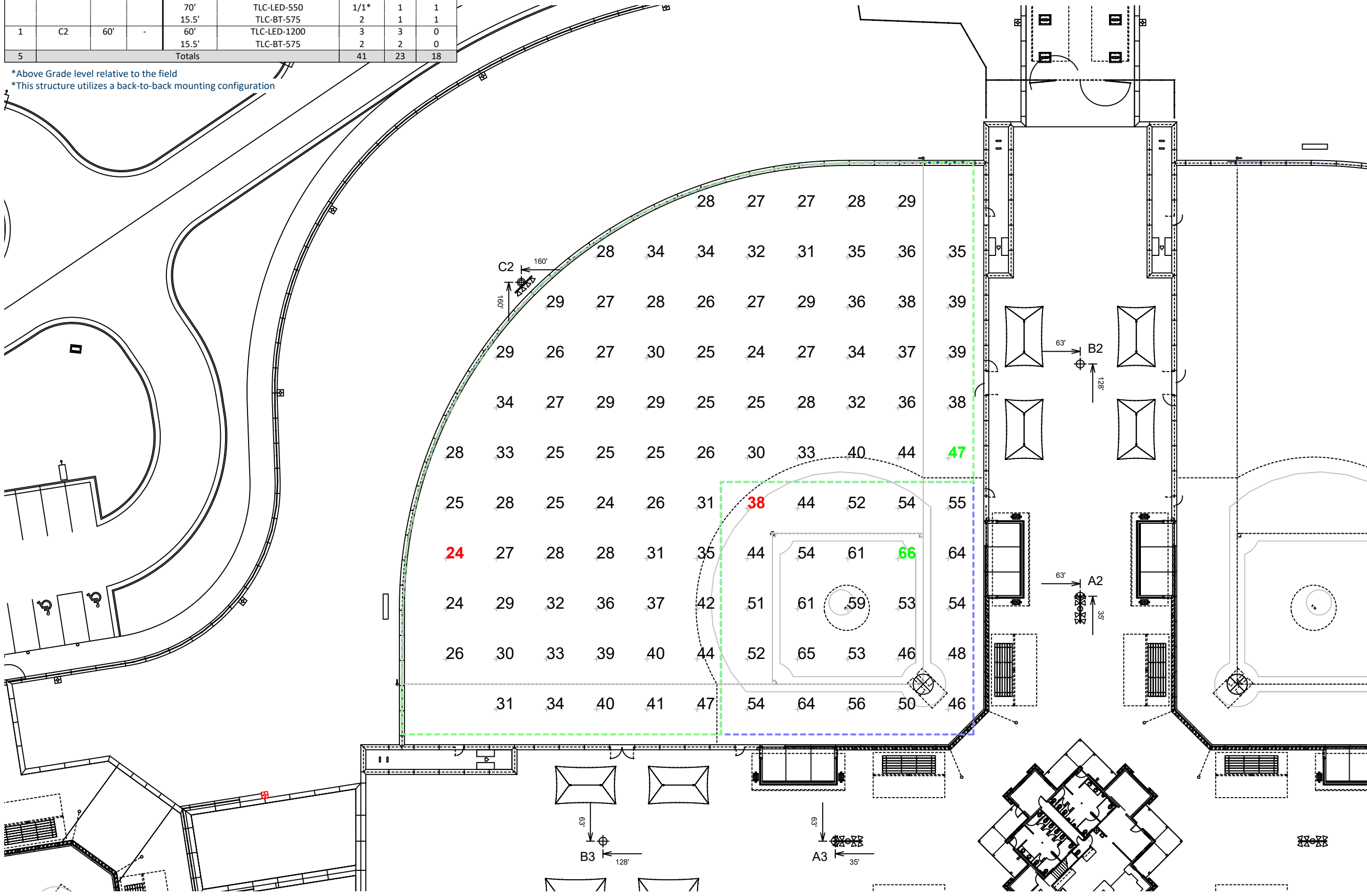
Illumination Summary		
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
<b>Guaranteed Average</b>	<b>50</b>	<b>30</b>
Scan Average	53.74	31.47
Maximum	66	47
Minimum	38	24
Avg/Min	1.41	1.33
<b>Guaranteed Max/Min</b>	<b>2</b>	<b>2.5</b>
Max/Min	1.73	1.99
UG (adjacent pts)	1.25	1.32
CU	0.57	
No. of Points	25	82
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	A	
<b>No. of Luminaires</b>	<b>23</b>	
Total Load	22.49 kW	

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

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

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



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



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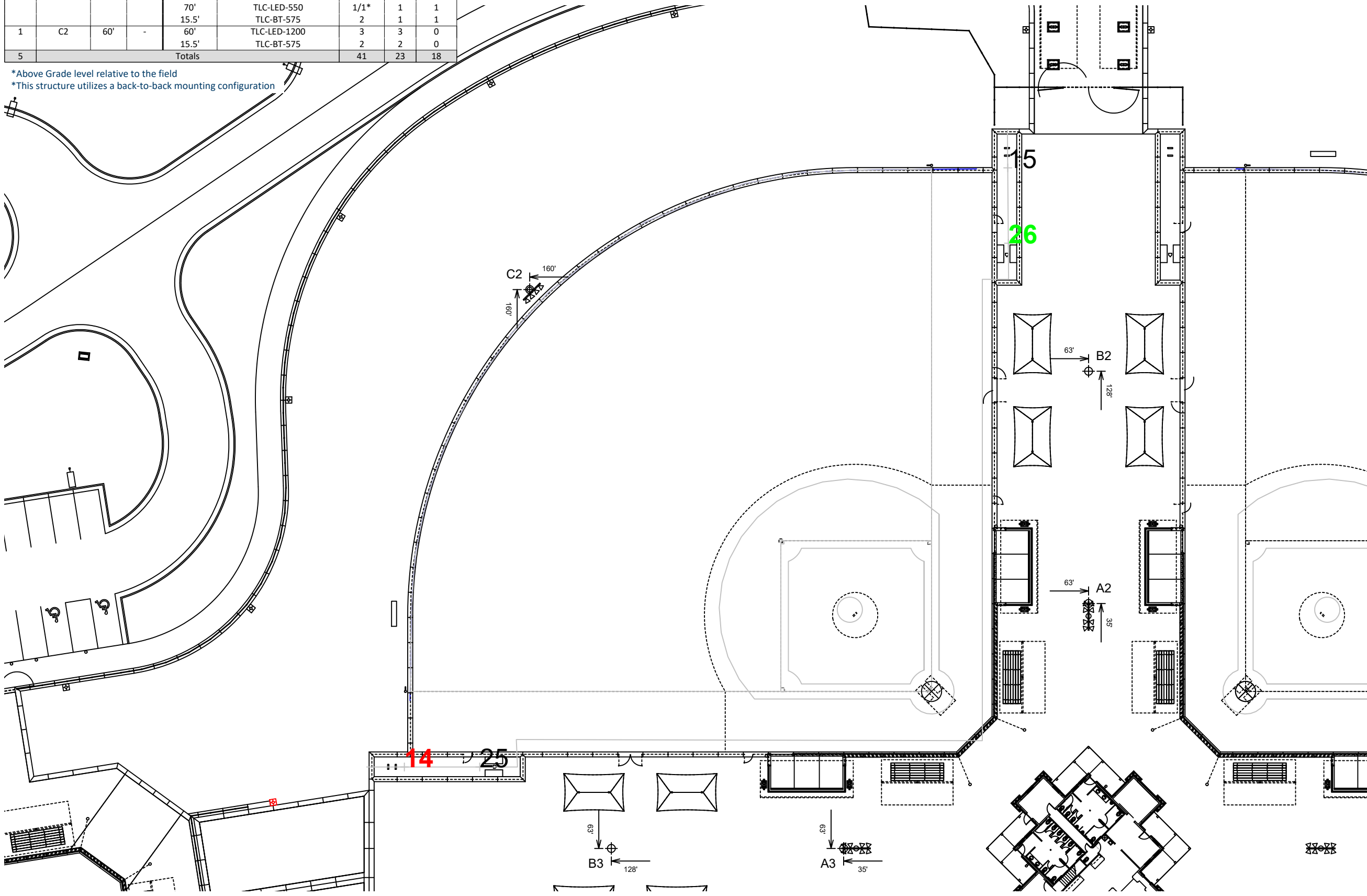
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**ILLUMINATION SUMMARY**

**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A2-A3	60'	-	60'	TLC-LED-900	3/3*	3	3
2	B2-B3	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C2	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
<b>Name</b>	Field 1 Bullpens
<b>Size</b>	Irregular 208'/220'/208'
<b>Spacing</b>	30.0' x 10.0'
<b>Height</b>	3.0' above grade

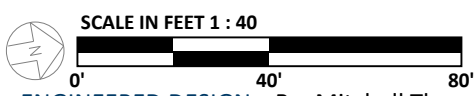
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
<b>Scan Average</b>	<b>20.03</b>
Maximum	26
Minimum	14
Avg/Min	1.41
<b>Max/Min</b>	<b>1.86</b>
No. of Points	4
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	A
<b>No. of Luminaires</b>	<b>23</b>
Total Load	22.49 kW

**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) ⊗



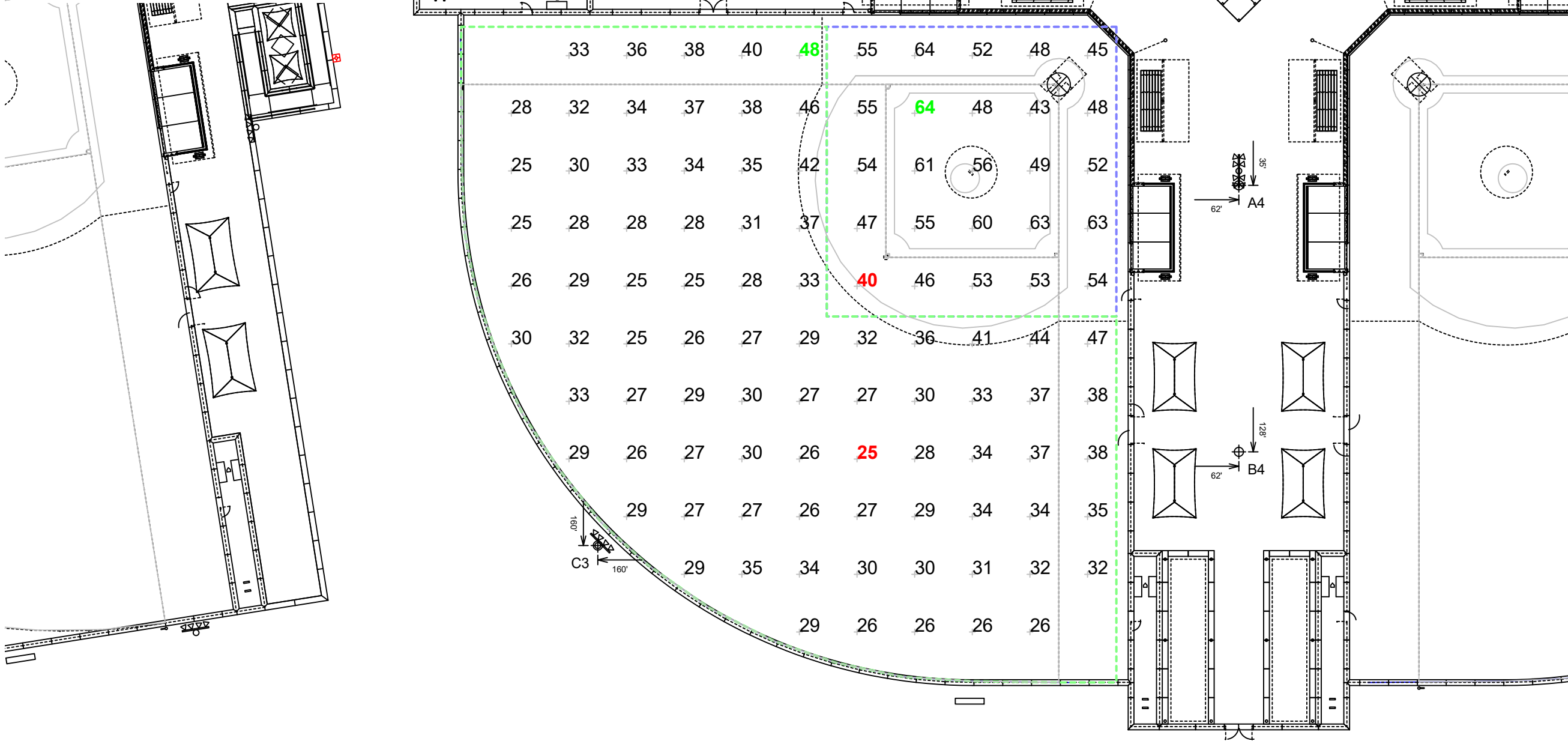
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**ILLUMINATION SUMMARY**

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	60'	TLC-LED-900	3/3*	3	3
1	B3	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	B4	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C3	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



### Jack Allen Softball Complex

Decatur, AL

**Grid Summary**

Name **Field 4**  
 Size Irregular 207'/220'/207'  
 Spacing 20.0' x 20.0'  
 Height 3.0' above grade

**Illumination Summary**

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
<b>Guaranteed Average</b>	<b>50</b>	<b>30</b>
Scan Average	53.10	31.56
Maximum	64	48
Minimum	40	25
Avg/Min	1.31	1.27
<b>Guaranteed Max/Min</b>	<b>2</b>	<b>2.5</b>
Max/Min	1.57	1.94
UG (adjacent pts)	1.31	1.30
CU	0.56	
No. of Points	25	82
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	D	
<b>No. of Luminaires</b>	<b>23</b>	
Total Load	22.83 kW	

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

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

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

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

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



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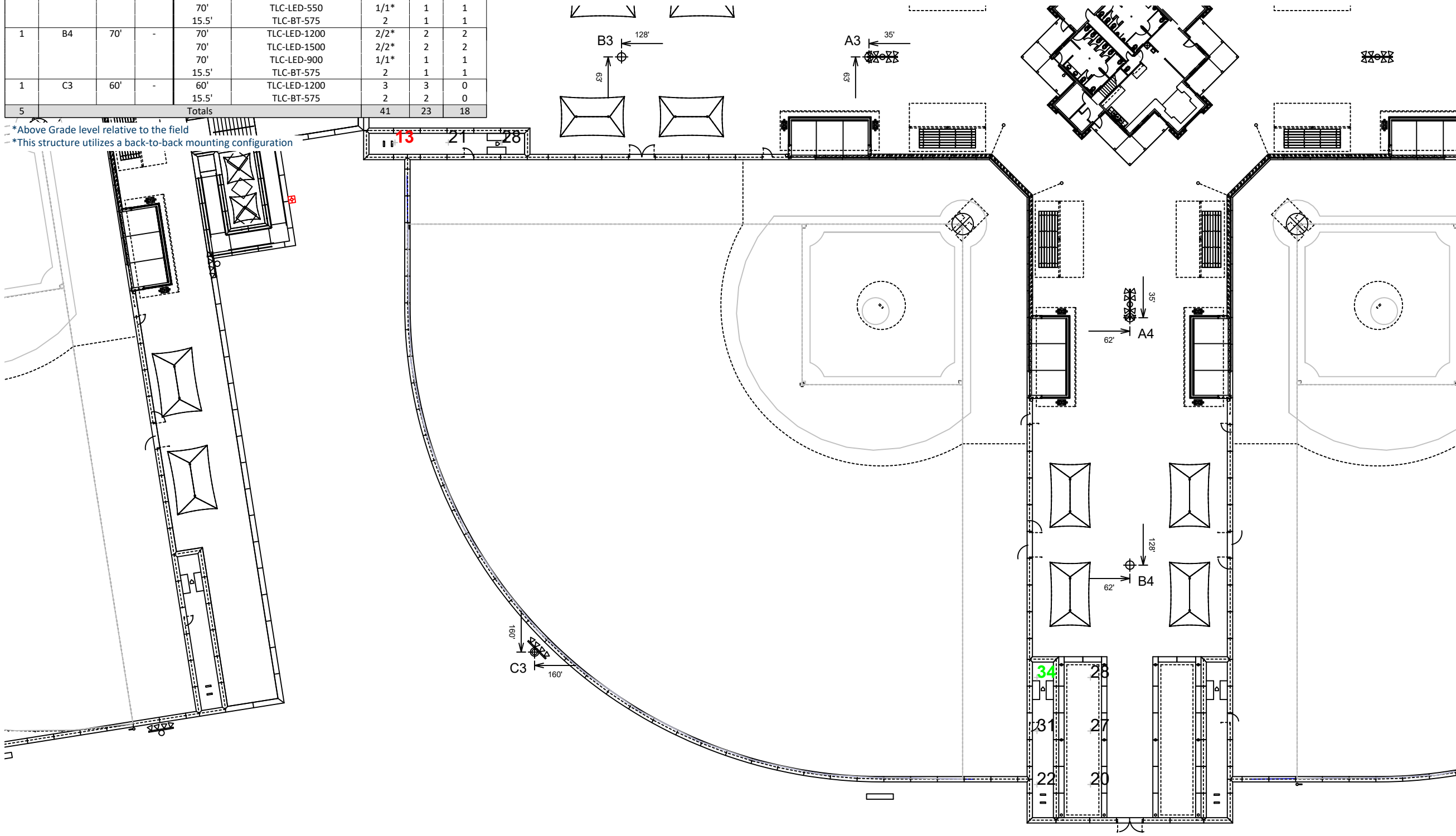
**ILLUMINATION SUMMARY**



Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	60'	TLC-LED-900	3/3*	3	3
1	B3	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-550	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
				70'	TLC-LED-1200	2/2*	2	2
1	B4	70'	-	70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
				60'	TLC-LED-1200	3	3	0
1	C3	60'	-	15.5'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



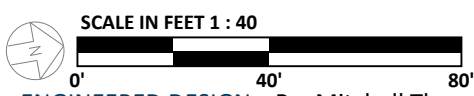
Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 4 Pens/Cages
Size	Irregular 207'/220'/207'
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	25.06
Maximum	34
Minimum	13
Avg/Min	1.87
Max/Min	2.56
No. of Points	9
LUMINAIRE INFORMATION	
Applied Circuits	D
No. of Luminaires	23
Total Load	22.83 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.  
**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.  
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.  
**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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

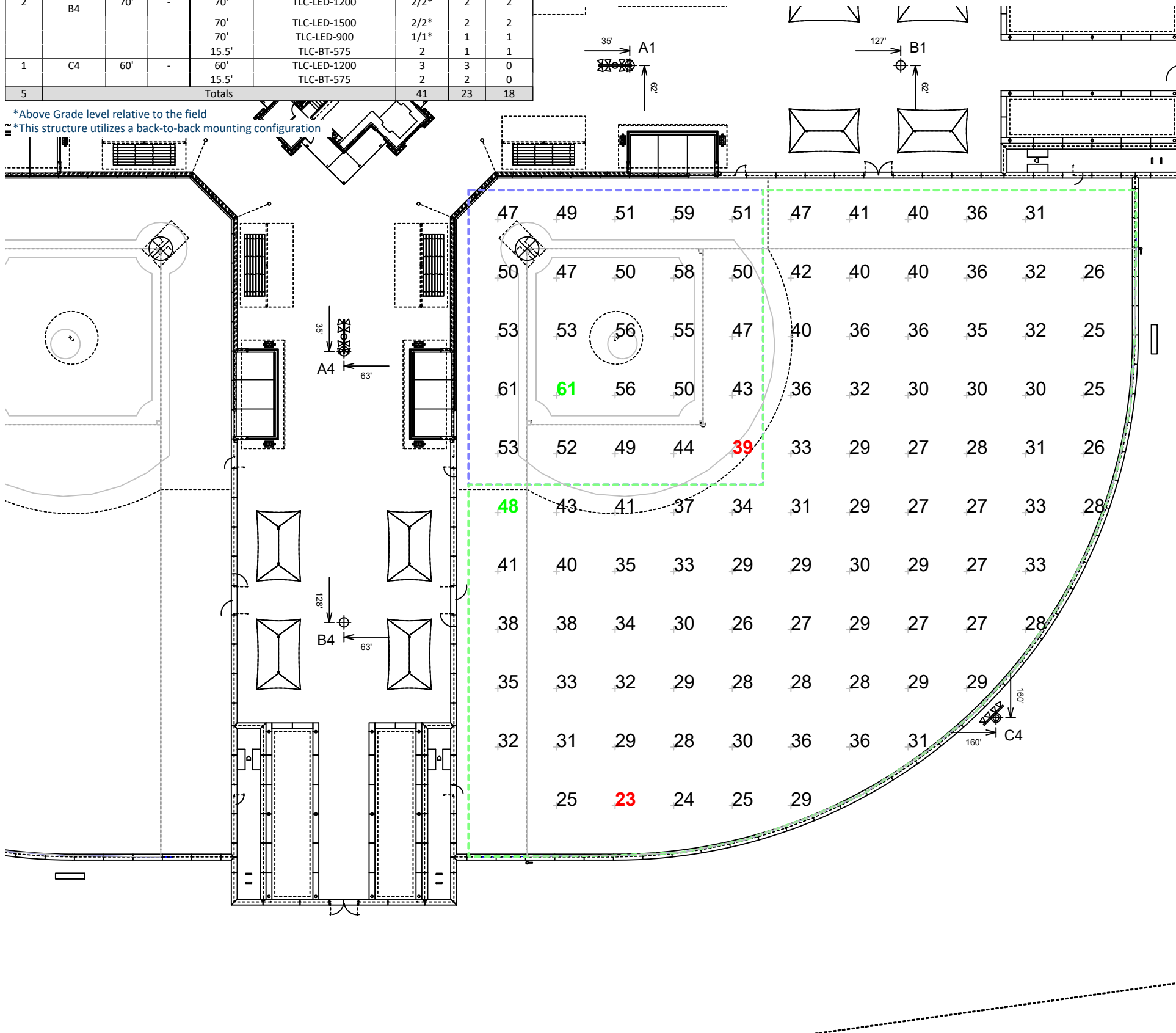


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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1 A4	60'	-	60'	TLC-LED-900	3/3*	3	3
2	B1 B4	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				70'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C4	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*\*This structure utilizes a back-to-back mounting configuration



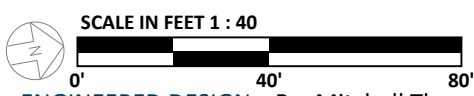
# Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 3
Size	Irregular 208'/220'/207'
Spacing	20.0' x 20.0'
Height	3.0' above grade

	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
<b>Guaranteed Average</b>	<b>50</b>	<b>30</b>
Scan Average	51.36	32.08
Maximum	61	48
Minimum	39	23
Avg/Min	1.32	1.38
<b>Guaranteed Max/Min</b>	<b>2</b>	<b>2.5</b>
Max/Min	1.56	2.07
UG (adjacent pts)	1.17	1.31
CU	0.55	
No. of Points	25	82
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	C	
<b>No. of Luminaires</b>	<b>23</b>	
Total Load	23.17 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) ⊗

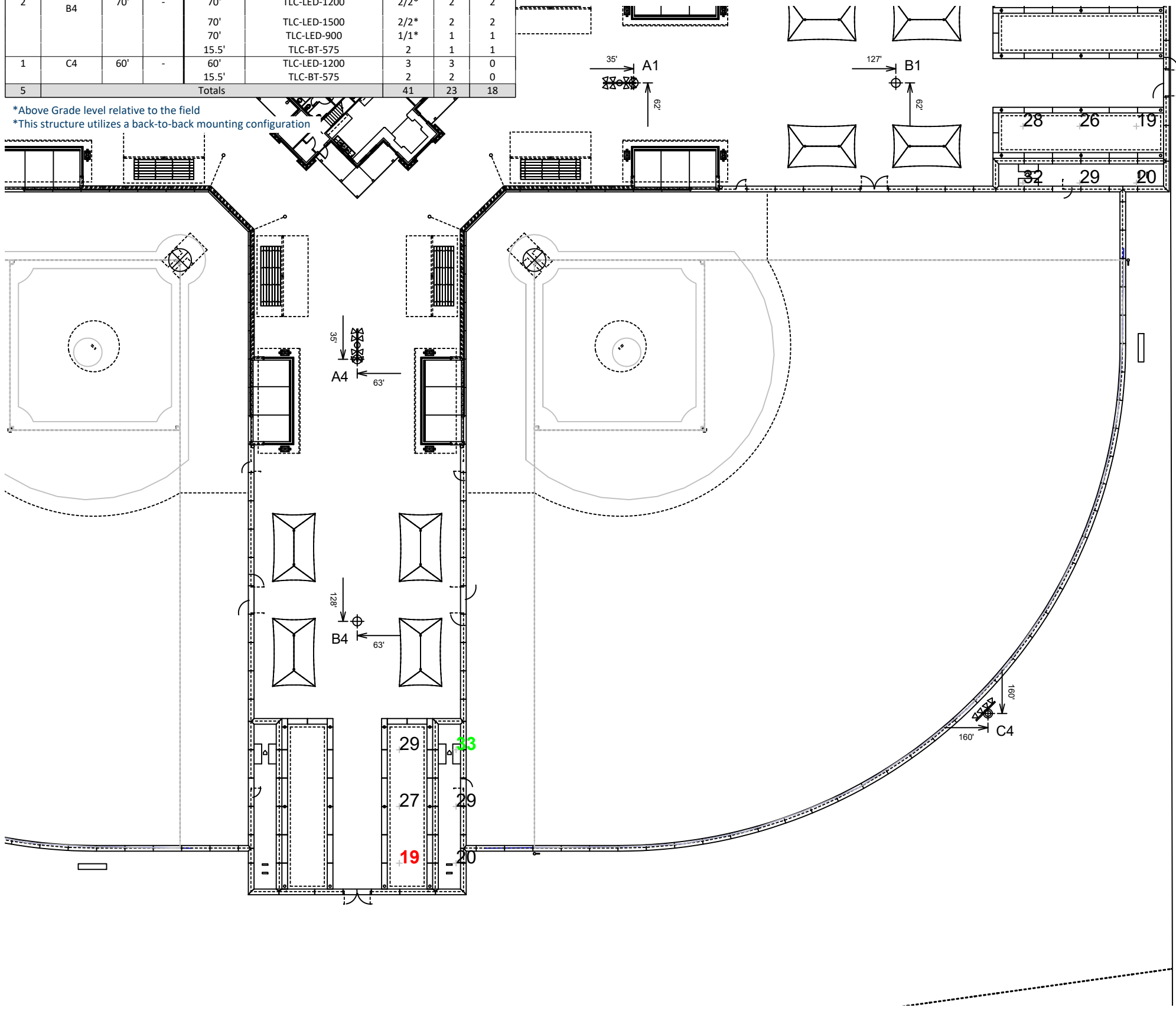


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## ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A1 A4	60'	-	60'	TLC-LED-900	3/3*	3	3
2	B1 B4	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	2/2*	2	2
				15.5'	TLC-LED-900	1/1*	1	1
				15.5'	TLC-BT-575	2	1	1
1	C4	60'	-	60'	TLC-LED-1200	3	3	0
				15.5'	TLC-BT-575	2	2	0
5	Totals					41	23	18

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



# Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 3 Pens/Cages
Size	Irregular 208'/220'/207'
Spacing	20.0' x 20.0'
Height	3.0' above grade

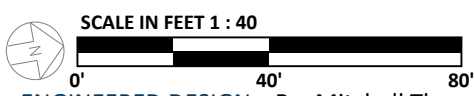
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	25.89
Maximum	33
Minimum	19
Avg/Min	1.38
Max/Min	1.73
No. of Points	12
LUMINAIRE INFORMATION	
Applied Circuits	C
No. of Luminaires	23
Total Load	23.17 kW

**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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## 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
1	A7	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A8	60'	6'	66'	TLC-LED-1200	1/1*	1	1
				66'	TLC-LED-900	2/2*	2	2
				21.5'	TLC-BT-575	2	1	1
				80'	TLC-LED-1200	2	0	2
1	B6	80'	-	80'	TLC-LED-1500	8	5	3
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				84'	TLC-LED-1200	2	0	2
1	B7	80'	4'	84'	TLC-LED-1500	10	6	4
				19.5'	TLC-BT-575	2	1	1
				60'	TLC-LED-1500	4	2	2
1	C5	60'	-	60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				Totals			48	26

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration

Jack Allen Softball Complex

Decatur, AL

Grid Summary

<b>Name</b>	Field 6
<b>Size</b>	225'/225'/225' - basepath 60'
<b>Spacing</b>	20.0' x 20.0'
<b>Height</b>	3.0' above grade

Illumination Summary

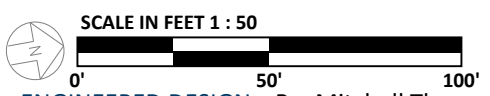
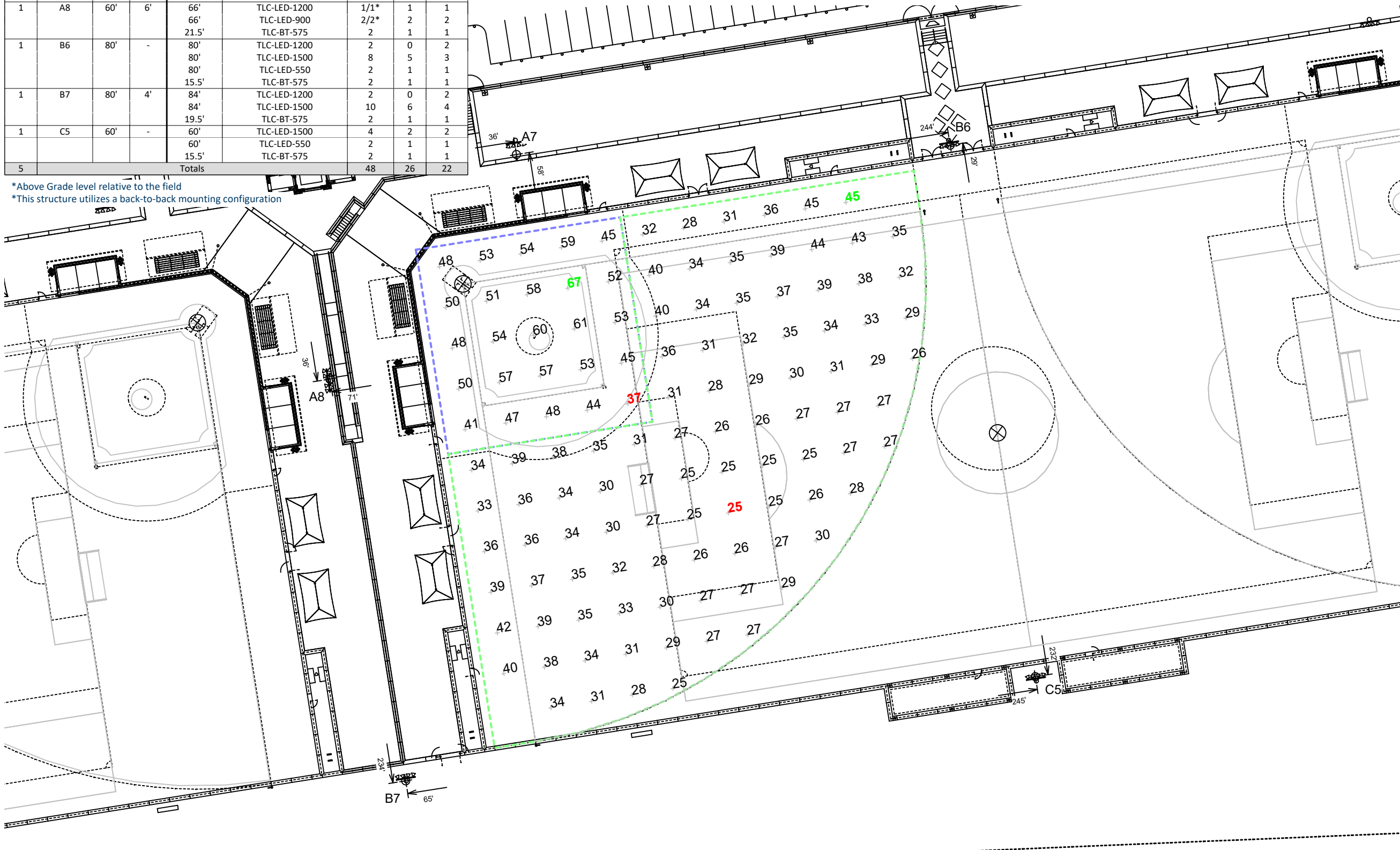
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
<b>Guaranteed Average</b>	<b>50</b>	<b>30</b>
Scan Average	51.68	31.99
Maximum	67	45
Minimum	37	25
Avg/Min	1.39	1.30
<b>Guaranteed Max/Min</b>	<b>2</b>	<b>2.5</b>
Max/Min	1.80	1.83
UG (adjacent pts)	1.31	1.23
CU	0.49	
No. of Points	25	94
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	F,H	
<b>No. of Luminaires</b>	<b>26</b>	
Total Load	28.15 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) ⊗

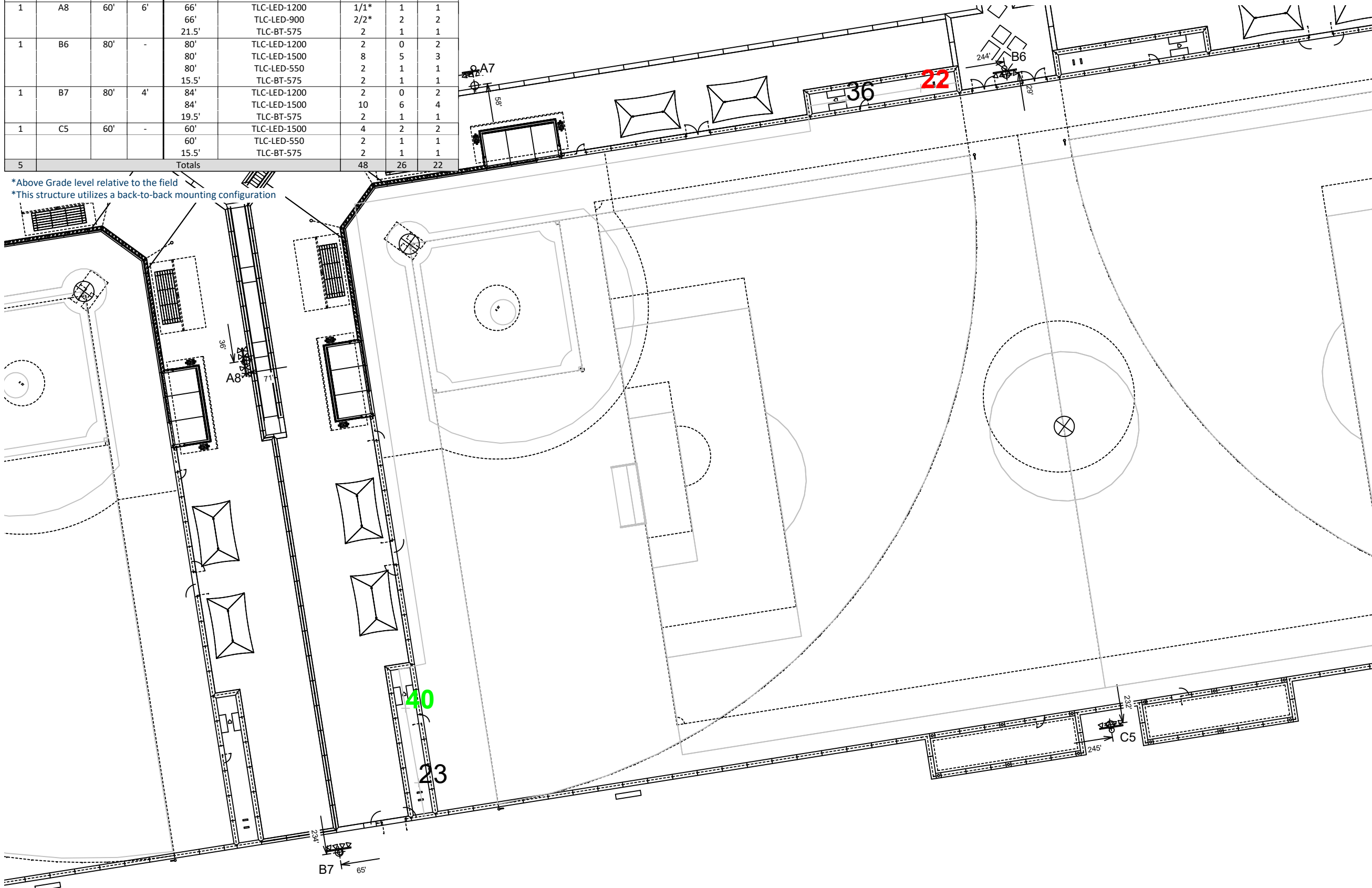


We Make It Happen.

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A7	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A8	60'	6'	66'	TLC-LED-1200	1/1*	1	1
				66'	TLC-LED-900	2/2*	2	2
				21.5'	TLC-BT-575	2	1	1
1	B6	80'	-	80'	TLC-LED-1200	2	0	2
				80'	TLC-LED-1500	8	5	3
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	B7	80'	4'	84'	TLC-LED-1200	2	0	2
				84'	TLC-LED-1500	10	6	4
				19.5'	TLC-BT-575	2	1	1
				60'	TLC-LED-1500	4	2	2
1	C5	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
5				Totals		48	26	22

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 6 Bullpens
Size	225'/225'/225' - basepath 60'
Spacing	30.0' x 10.0'
Height	3.0' above grade

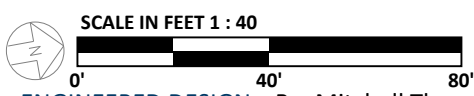
Illumination Summary	
	MAINTAINED HORIZONTAL FOOTCANDLES
Scan Average	30.16
Maximum	40
Minimum	22
Avg/Min	1.38
Max/Min	1.81
No. of Points	4
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	F,H
No. of Luminaires	26
Total Load	28.15 kW

**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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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
1	A7	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B6	80'	-	80'	TLC-LED-1200	2	0	2
				80'	TLC-LED-1500	8	5	3
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	B7	80'	4'	84'	TLC-LED-1200	2	0	2
				84'	TLC-LED-1500	10	6	4
				19.5'	TLC-BT-575	2	1	1
1	C5	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
4	Totals					40	22	18

\*Above Grade level relative to the field

# Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 6 Cage
Size	225'/225'/225' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

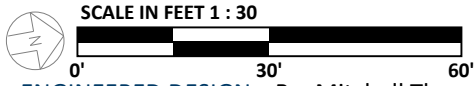
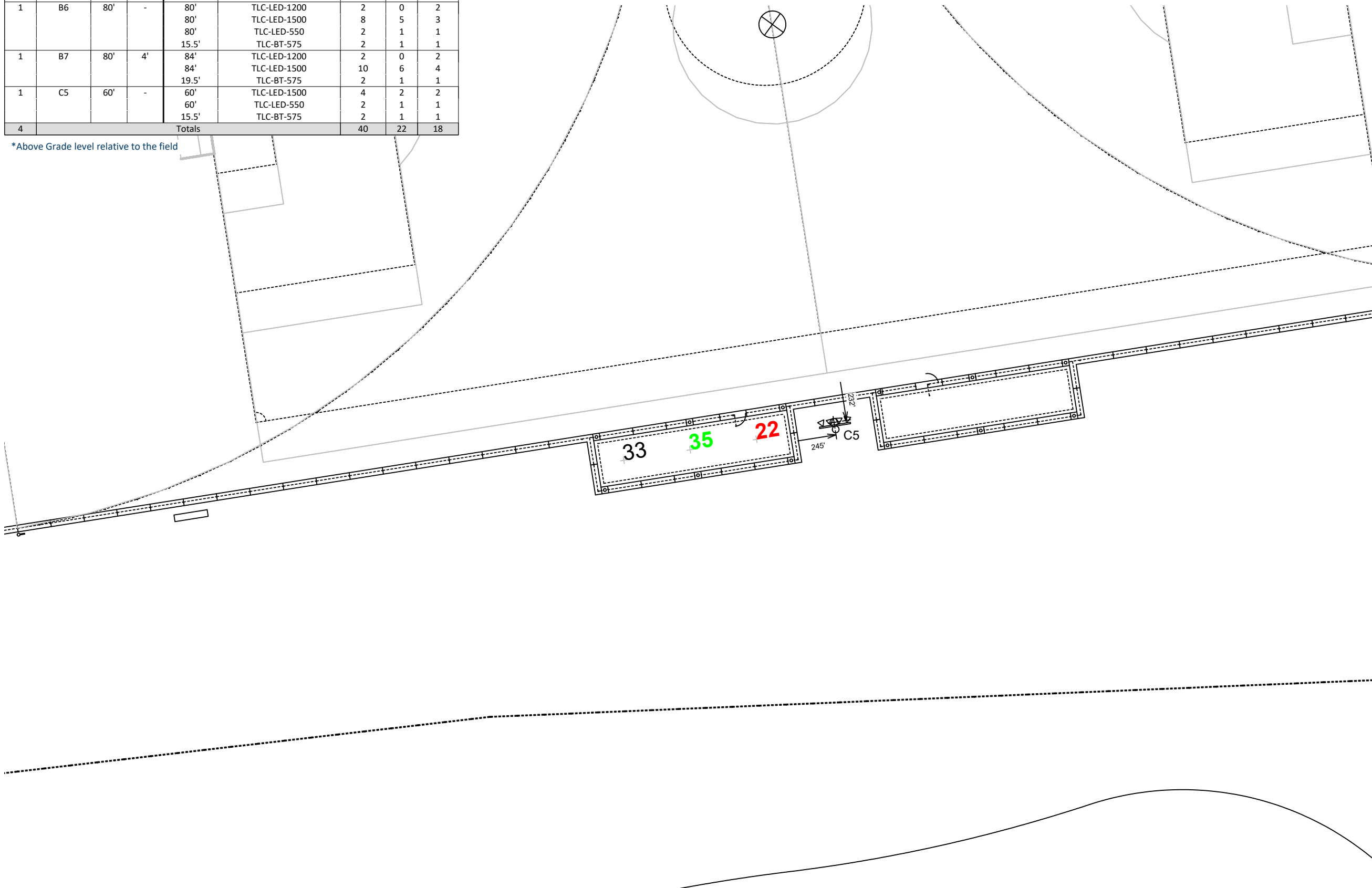
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	30.04
Maximum	35
Minimum	22
Avg/Min	1.36
Max/Min	1.58
No. of Points	3
LUMINAIRE INFORMATION	
Applied Circuits	F
No. of Luminaires	22
Total Load	24.64 kW

**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) ⊗



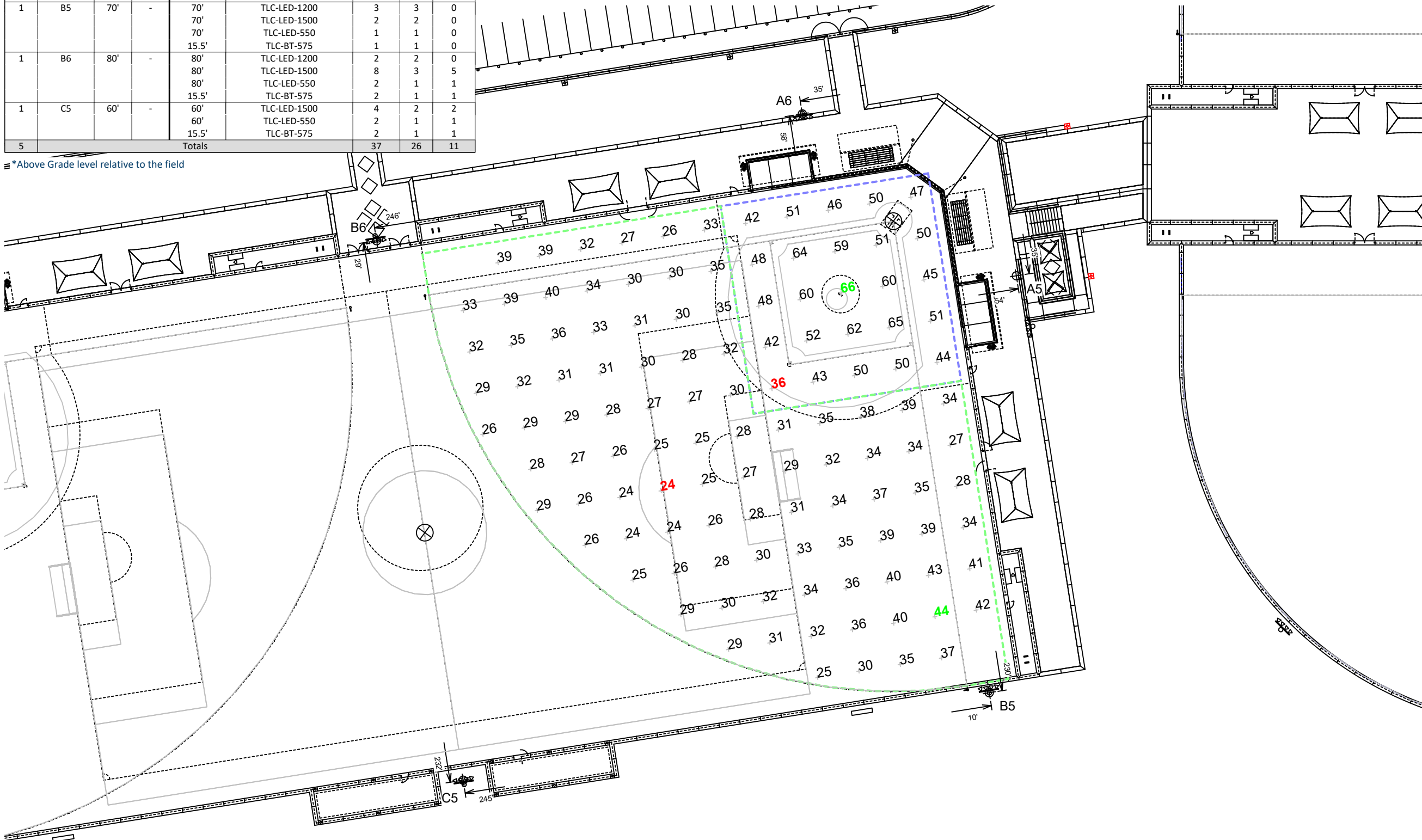
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## ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B5	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
				80'	TLC-LED-1200	2	2	0
1	B6	80'	-	80'	TLC-LED-1500	8	3	5
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
5	C5	60'	-	60'	TLC-LED-1500	4	2	2
				15.5'	TLC-BT-575	2	1	1
Totals						37	26	11

\*Above Grade level relative to the field



Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 5
Size	225'/225'/225' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

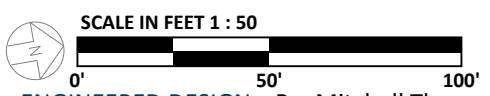
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	51.23	31.61
Maximum	66	44
Minimum	36	24
Avg/Min	1.41	1.34
Guaranteed Max/Min	2	2.5
Max/Min	1.82	1.85
UG (adjacent pts)	1.33	1.31
CU	0.53	
No. of Points	25	94
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	E,G	
No. of Luminaires	26	
Total Load	26.08 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.



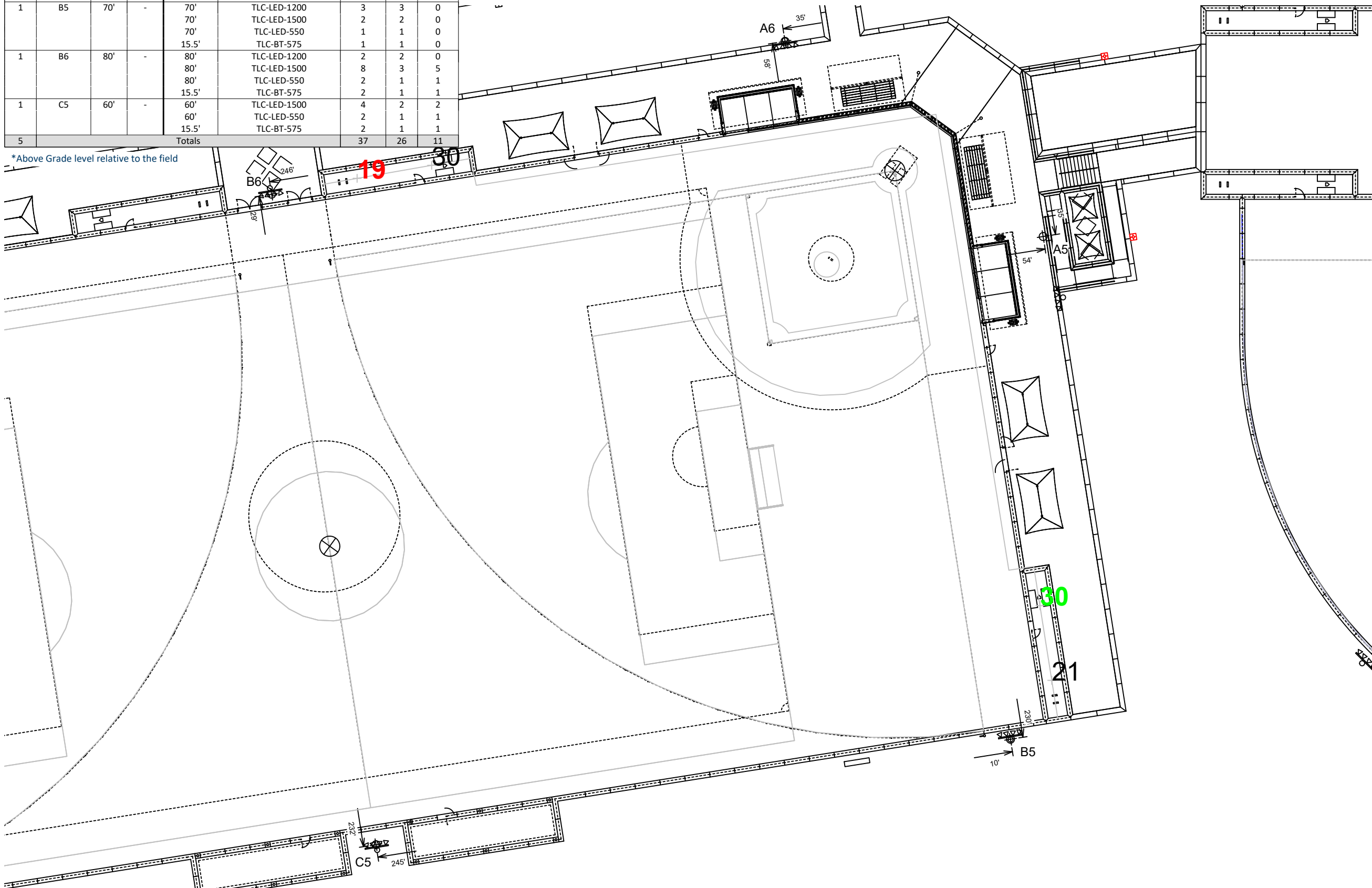
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A5-A6	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B5	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B6	80'	-	80'	TLC-LED-1200	2	2	0
				80'	TLC-LED-1500	8	3	5
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	C5	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
5	Totals					37	26	11

\*Above Grade level relative to the field



**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
Name	Field 5 Bullpens
Size	225'/225'/225' - basepath 60'
Spacing	30.0' x 10.0'
Height	3.0' above grade

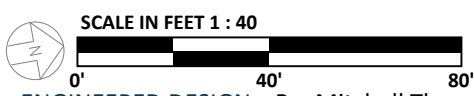
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	25.15
Maximum	30
Minimum	19
Avg/Min	1.34
Max/Min	1.61
No. of Points	4
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	E,G
No. of Luminaires	26
Total Load	26.08 kW

**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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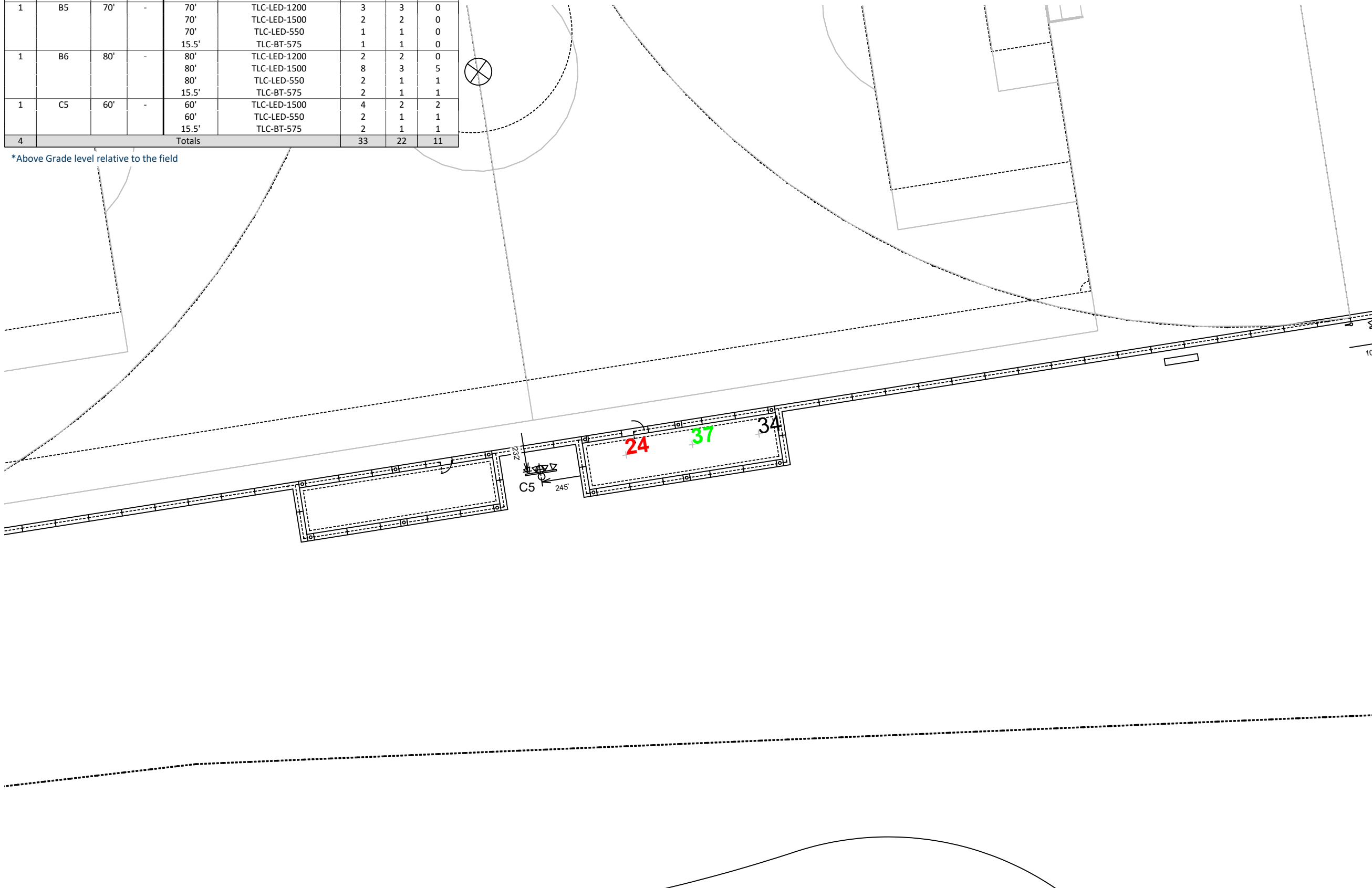
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**ILLUMINATION SUMMARY**



Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A6	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B5	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B6	80'	-	80'	TLC-LED-1200	2	2	0
				80'	TLC-LED-1500	8	3	5
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	C5	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
4	Totals					33	22	11

\*Above Grade level relative to the field



# Jack Allen Softball Complex

Decatur, AL

## Grid Summary

Name **Field 5 Cage**  
 Size 225'/225'/225' - basepath 60'  
 Spacing 20.0' x 20.0'  
 Height 3.0' above grade

## Illumination Summary

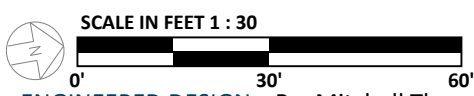
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	<b>31.59</b>
Maximum	37
Minimum	24
Avg/Min	1.34
Max/Min	<b>1.57</b>
No. of Points	3
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	E
No. of Luminaires	<b>22</b>
Total Load	22.57 kW

**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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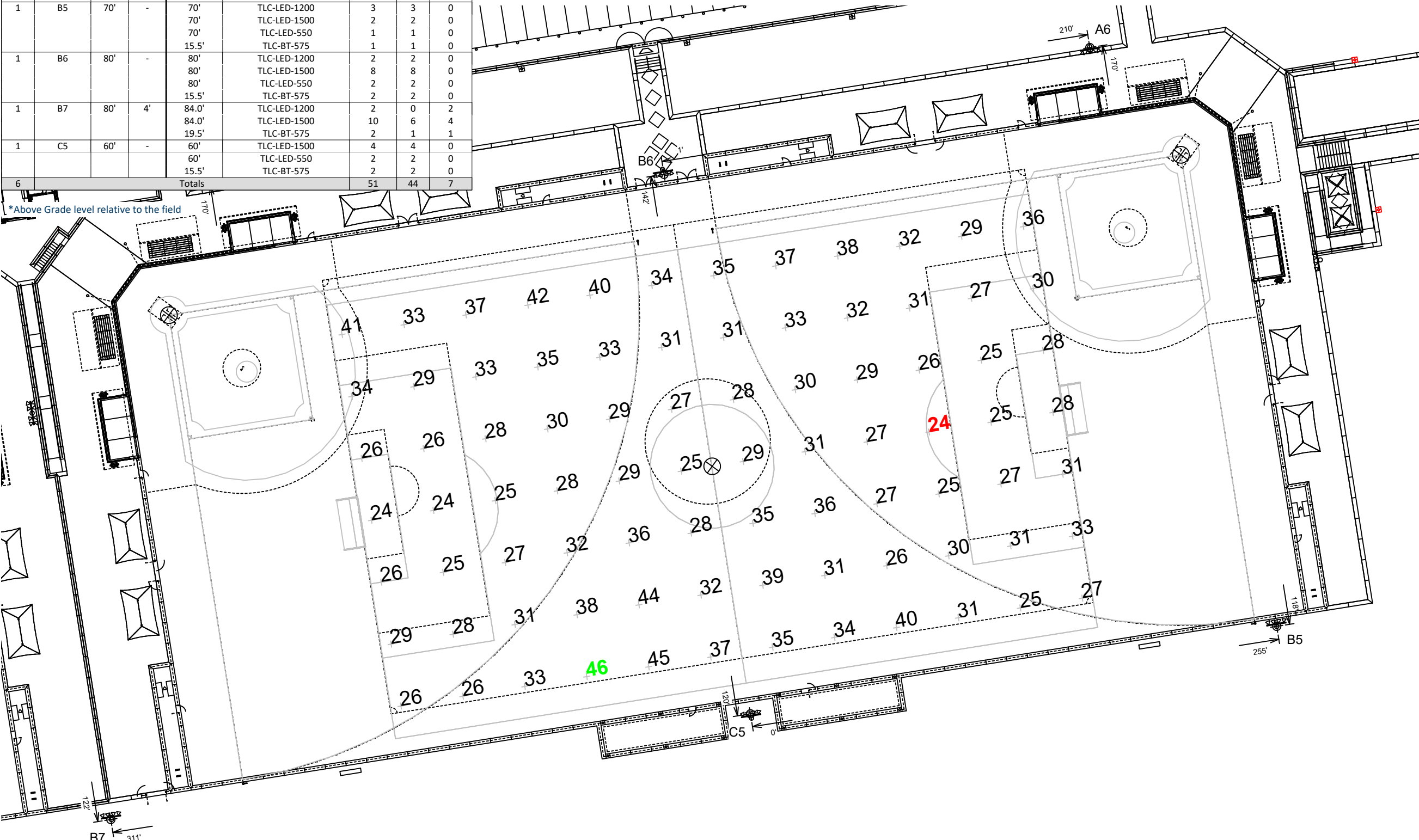
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## ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A6-A7	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B5	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B6	80'	-	80'	TLC-LED-1200	2	2	0
				80'	TLC-LED-1500	8	8	0
				80'	TLC-LED-550	2	2	0
				15.5'	TLC-BT-575	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	B7	80'	4'	84.0'	TLC-LED-1200	2	0	2
				84.0'	TLC-LED-1500	10	6	4
				19.5'	TLC-BT-575	2	1	1
				19.5'	TLC-BT-575	2	1	1
1	C5	60'	-	60'	TLC-LED-1500	4	4	0
				60'	TLC-LED-550	2	2	0
				15.5'	TLC-BT-575	2	2	0
6	Totals					51	44	7

\*Above Grade level relative to the field



Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Soccer A
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

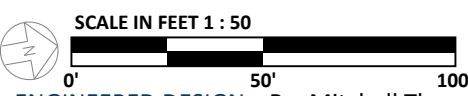
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	30
Scan Average	31.09
Maximum	46
Minimum	24
Avg/Min	1.30
Guaranteed Max/Min	2.5
Max/Min	1.93
UG (adjacent pts)	1.51
CU	0.40
No. of Points	84
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	E, F
No. of Luminaires	44
Total Load	47.21 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.



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



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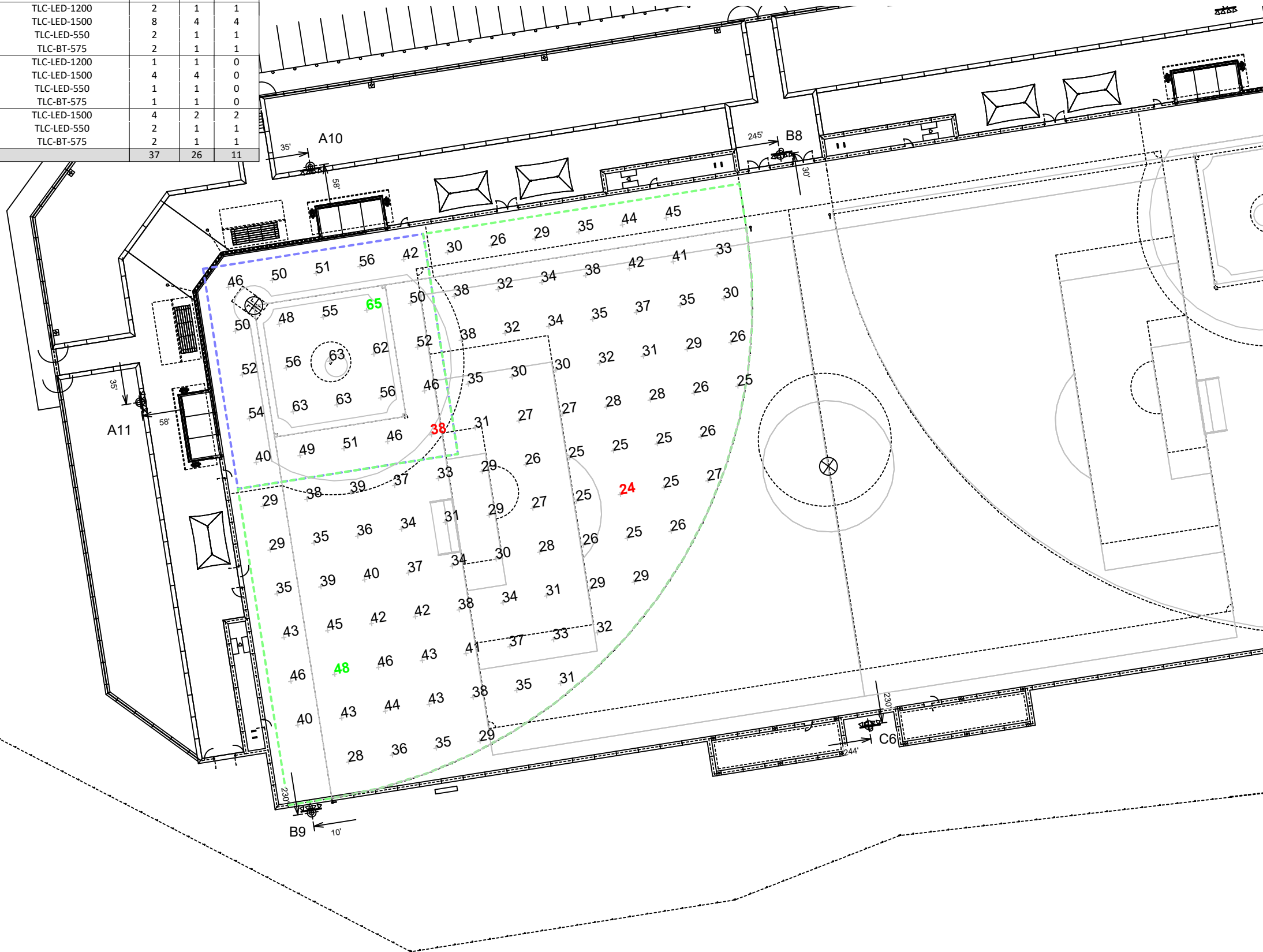
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ILLUMINATION SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A10-A11	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B8	80'	-	80'	TLC-LED-1200	2	1	1
				80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	B9	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	C6	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
5	Totals					37	26	11

\*Above Grade level relative to the field



Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 8
Size	225'/225'/225' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

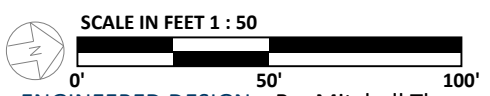
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	52.15	33.45
Maximum	65	48
Minimum	38	24
Avg/Min	1.37	1.39
Guaranteed Max/Min	2	2.5
Max/Min	1.71	1.98
UG (adjacent pts)	1.34	1.52
CU	0.54	
No. of Points	25	94
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	K,L	
No. of Luminaires	26	
Total Load	26.79 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	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A10-A11	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B8	80'	-	80'	TLC-LED-1200	2	1	1
				80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				70'	TLC-LED-1200	1	1	0
1	B9	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
1	C6	60'	-	60'	TLC-LED-1500	4	2	2
				15.5'	TLC-BT-575	2	1	1
5	Totals					37	26	11

\*Above Grade level relative to the field

Jack Allen Softball Complex

Decatur, AL

Grid Summary

Name **Field 8 Bulpens**  
 Size 225'/225'/225' - basepath 60'  
 Spacing 30.0' x 10.0'  
 Height 3.0' above grade

Illumination Summary

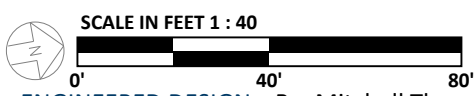
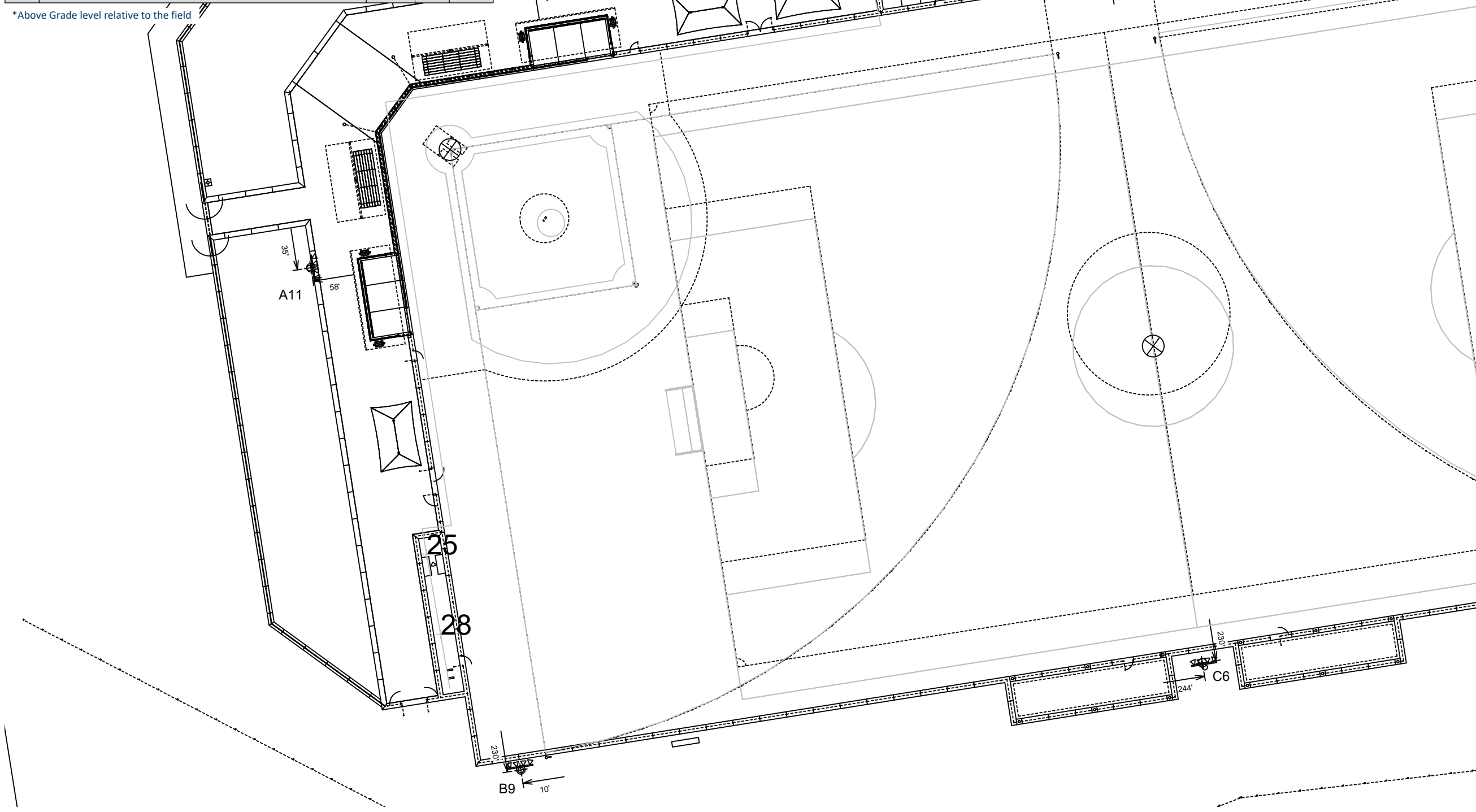
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	27.14
Maximum	33
Minimum	22
Avg/Min	1.23
Max/Min	1.52
No. of Points	4
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	K,L
No. of Luminaires	26
Total Load	26.79 kW

**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
1	A10	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B8	80'	-	80'	TLC-LED-1200	2	1	1
				80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	B9	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	C6	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
4	Totals					33	22	11

\*Above Grade level relative to the field

Jack Allen Softball Complex

Decatur, AL

Grid Summary

Name **Field 8 Cage**  
 Size 225'/225'/225' - basepath 60'  
 Spacing 20.0' x 20.0'  
 Height 3.0' above grade

Illumination Summary

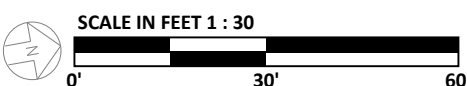
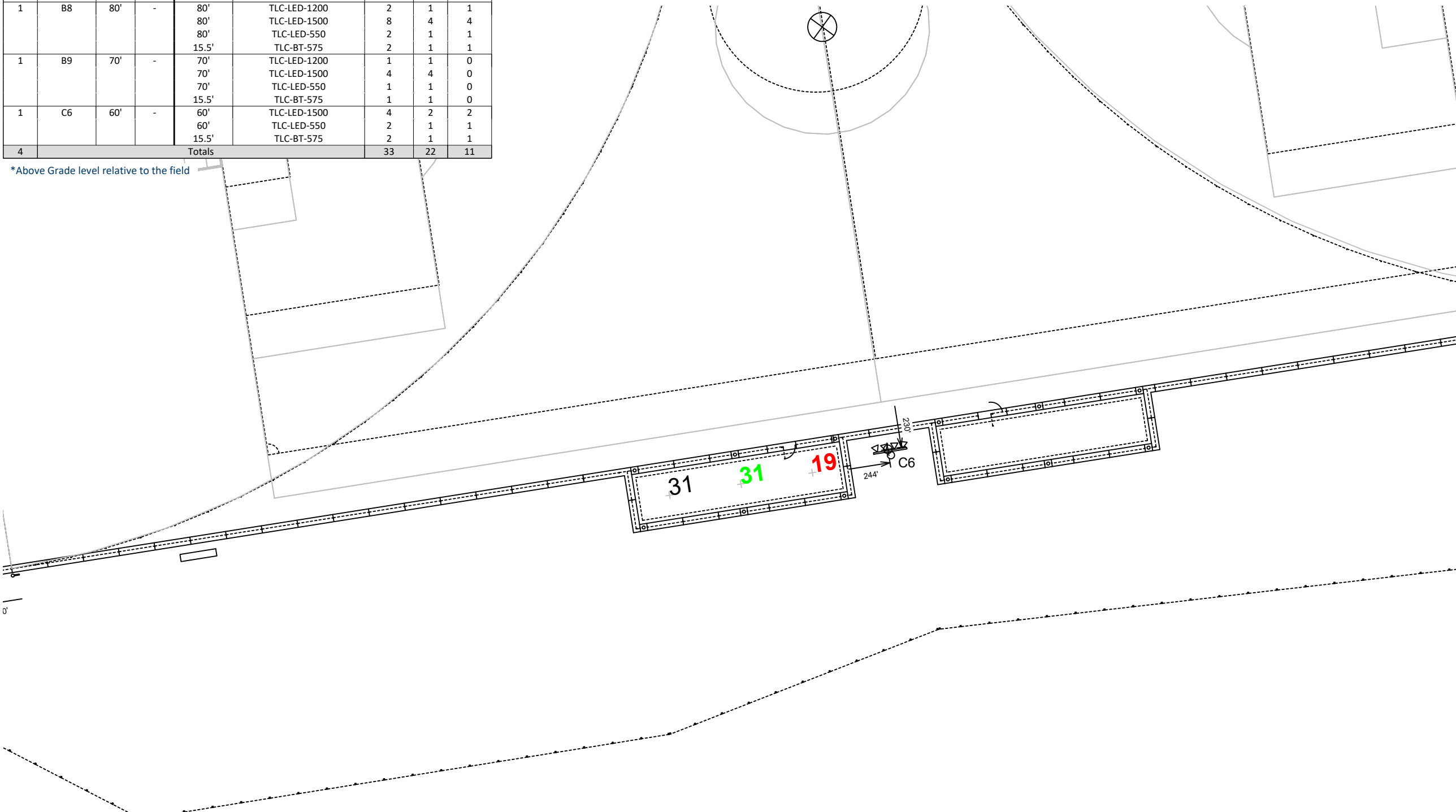
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	<b>26.95</b>
Maximum	31
Minimum	19
Avg/Min	1.43
Max/Min	<b>1.67</b>
No. of Points	3
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	K
No. of Luminaires	<b>22</b>
Total Load	23.29 kW

**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) ⊗

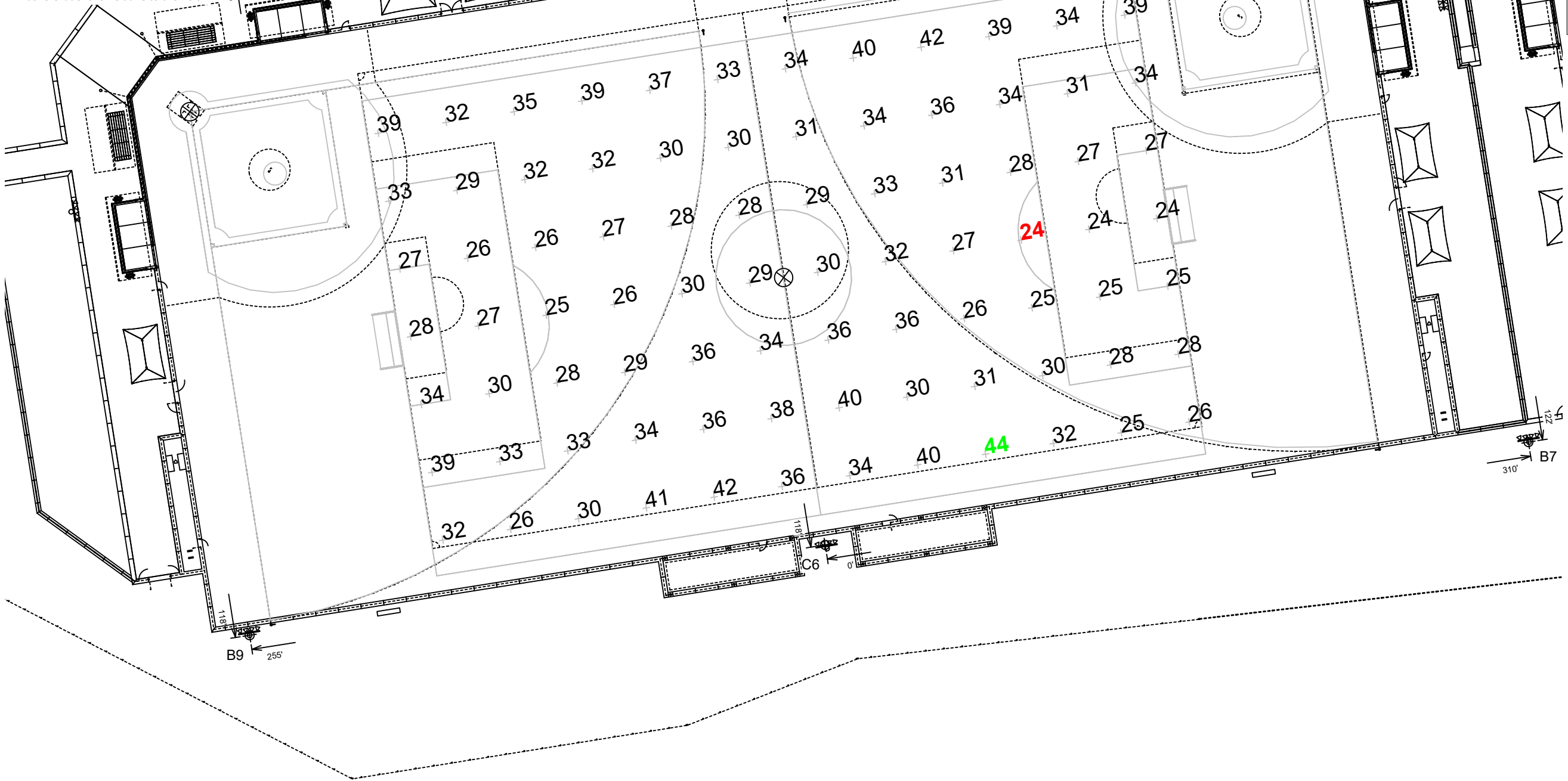


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**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	A9-A10	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
				78.0'	TLC-LED-1200	2	2	0
1	B7	80'	-2'	78.0'	TLC-LED-1500	10	4	6
				13.5'	TLC-BT-575	2	1	1
				80'	TLC-LED-1200	2	2	0
				80'	TLC-LED-1500	8	8	0
1	B8	80'	-	80'	TLC-LED-1500	2	2	0
				80'	TLC-LED-550	2	2	0
				15.5'	TLC-BT-575	2	2	0
				70'	TLC-LED-1200	1	1	0
1	B9	70'	-	70'	TLC-LED-1500	4	4	0
				70'	TLC-LED-550	1	1	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-1500	4	4	0
1	C6	60'	-	60'	TLC-LED-550	2	2	0
				15.5'	TLC-BT-575	2	2	0
				Totals			51	44

\*Above Grade level relative to the field



**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
Name	Soccer B
Size	340' x 210'
Spacing	30.0' x 30.0'
Height	3.0' above grade

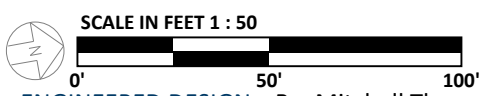
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	30
Scan Average	31.76
Maximum	44
Minimum	24
Avg/Min	1.33
Guaranteed Max/Min	2.5
Max/Min	1.85
UG (adjacent pts)	1.42
CU	0.41
No. of Points	84
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	1,K
No. of Luminaires	44
Total Load	47.21 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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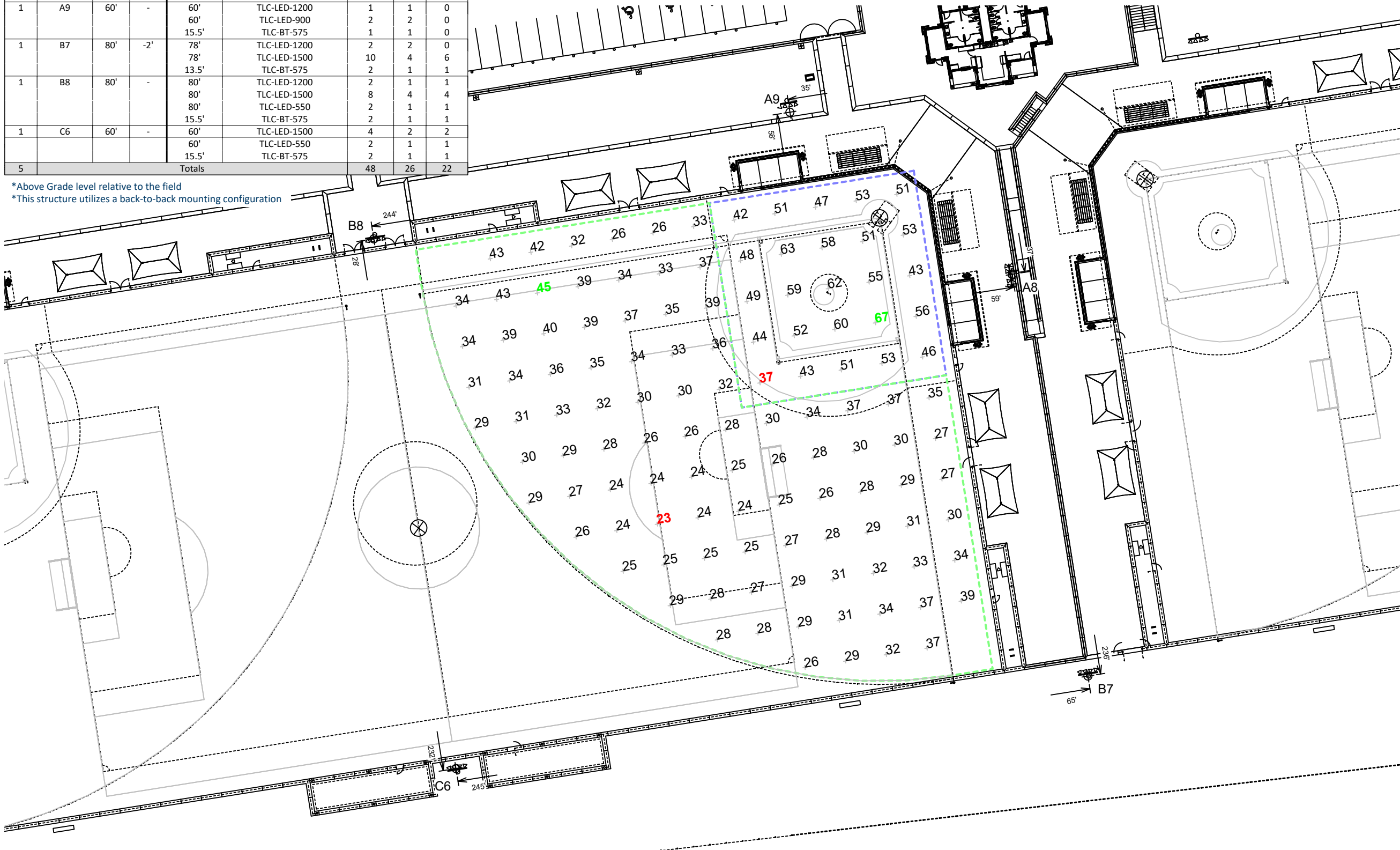
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**ILLUMINATION SUMMARY**

**Equipment List For Areas Shown**

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A8	60'	-	60'	TLC-LED-1200	1/1*	1	1
				60'	TLC-LED-900	2/2*	2	2
				15.5'	TLC-BT-575	2	1	1
1	A9	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B7	80'	-2'	78'	TLC-LED-1200	2	2	0
				78'	TLC-LED-1500	10	4	6
				13.5'	TLC-BT-575	2	1	1
1	B8	80'	-	80'	TLC-LED-1200	2	1	1
				80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	C6	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
5	Totals					48	26	22

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



**Jack Allen Softball Complex**

Decatur, AL

Grid Summary	
Name	Field 7
Size	225'/225'/225' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

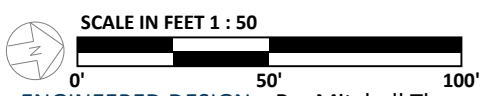
	MAINTAINED HORIZONTAL FOOTCANDLES	
	Infield	Outfield
Guaranteed Average	50	30
Scan Average	51.76	30.97
Maximum	67	45
Minimum	37	23
Avg/Min	1.39	1.32
Guaranteed Max/Min	2	2.5
Max/Min	1.81	1.91
UG (adjacent pts)	1.30	1.33
CU	0.50	
No. of Points	25	94
<b>LUMINAIRE INFORMATION</b>		
Applied Circuits	I, J	
No. of Luminaires	26	
Total Load	27.42 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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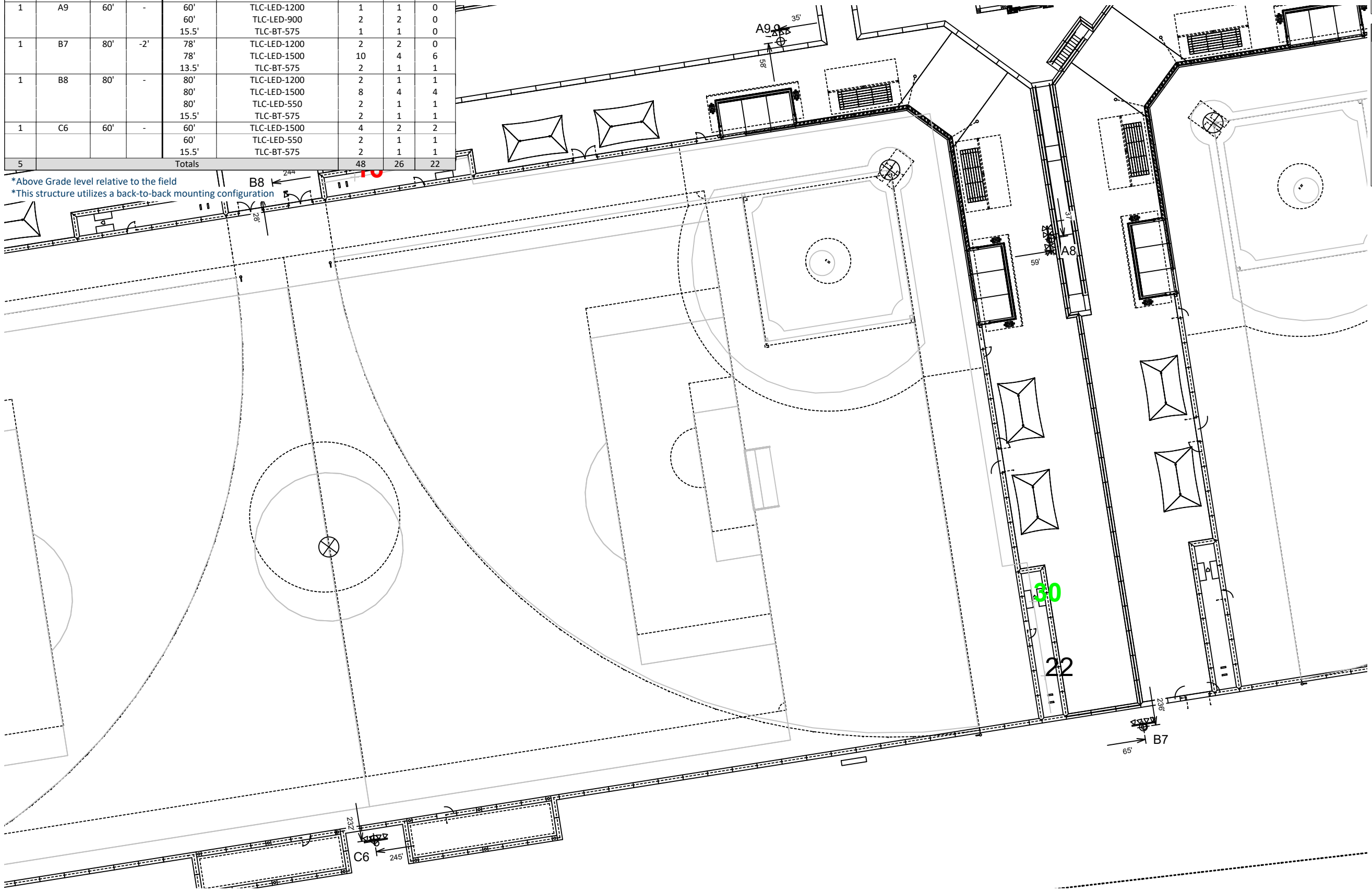
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**ILLUMINATION SUMMARY**

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A8	60'	-	60'	TLC-LED-1200	1/1*	1	1
				60'	TLC-LED-900	2/2*	2	2
				15.5'	TLC-BT-575	2	1	1
1	A9	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B7	80'	-2'	78'	TLC-LED-1200	2	2	0
				78'	TLC-LED-1500	10	4	6
				13.5'	TLC-BT-575	2	1	1
1	B8	80'	-	80'	TLC-LED-1200	2	1	1
				80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
1	C6	60'	-	60'	TLC-LED-1500	4	2	2
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
5	Totals					48	26	22

\*Above Grade level relative to the field  
 \*This structure utilizes a back-to-back mounting configuration



Jack Allen Softball Complex

Decatur, AL

**Grid Summary**

Name	Field 7 Bulpens
Size	225'/225'/225' - basepath 60'
Spacing	30.0' x 10.0'
Height	-3.0' above grade

**Illumination Summary**

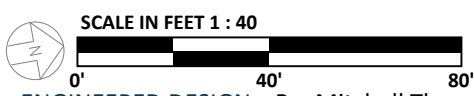
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	23.60
Maximum	30
Minimum	16
Avg/Min	1.50
Max/Min	1.93
No. of Points	4
<b>LUMINAIRE INFORMATION</b>	
Applied Circuits	I, J
No. of Luminaires	26
Total Load	27.42 kW

**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.



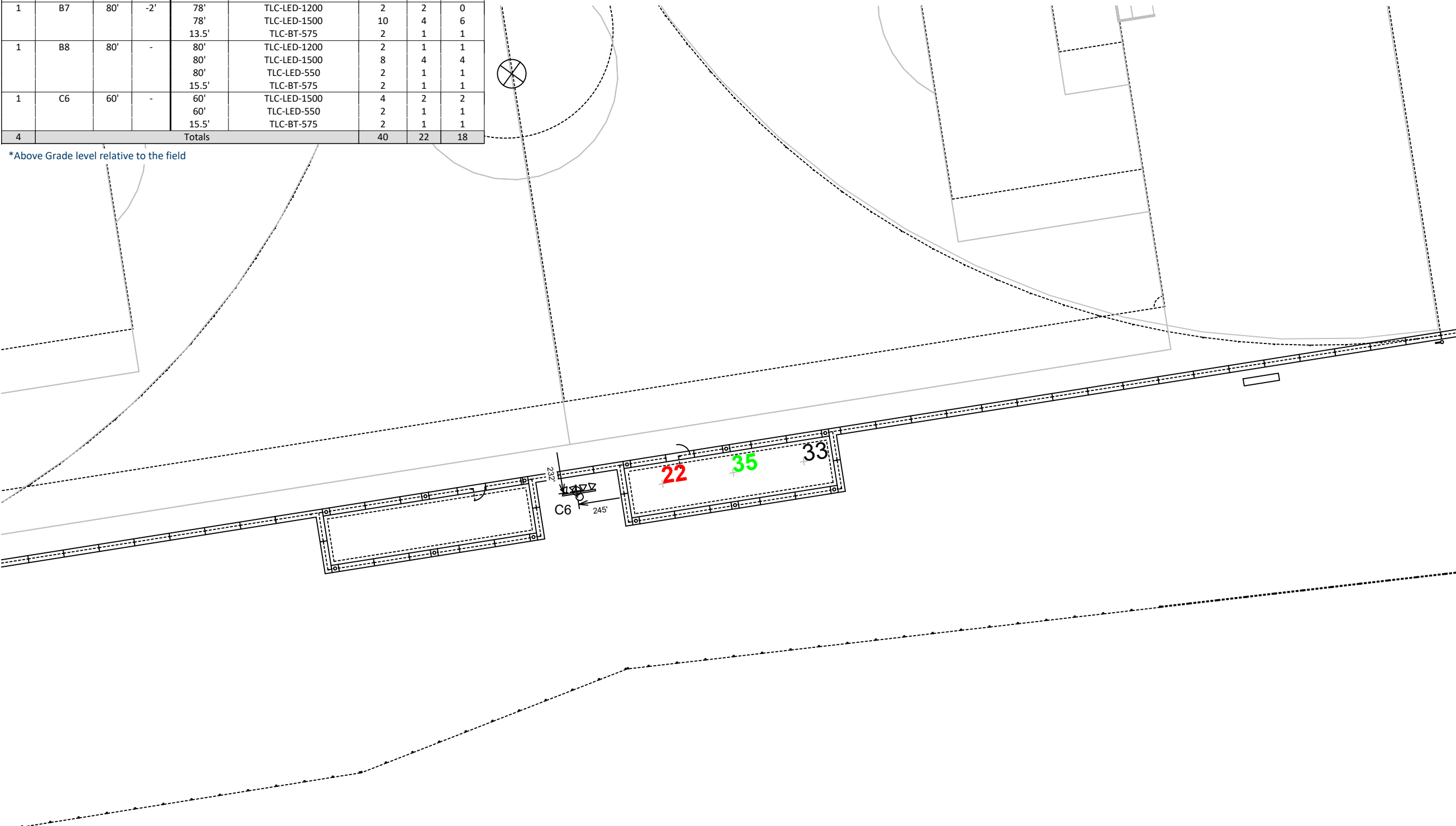
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗





Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	A9	60'	-	60'	TLC-LED-1200	1	1	0
				60'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	B7	80'	-2'	78'	TLC-LED-1200	2	2	0
				78'	TLC-LED-1500	10	4	6
				13.5'	TLC-BT-575	2	1	1
				80'	TLC-LED-1200	2	1	1
1	B8	80'	-	80'	TLC-LED-1500	8	4	4
				80'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
				60'	TLC-LED-1500	4	2	2
1	C6	60'	-	60'	TLC-LED-550	2	1	1
				60'	TLC-LED-550	2	1	1
				15.5'	TLC-BT-575	2	1	1
4	Totals					40	22	18

\*Above Grade level relative to the field



# Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Field 7 Cage
Size	225'/225'/225' - basepath 60'
Spacing	20.0' x 20.0'
Height	3.0' above grade

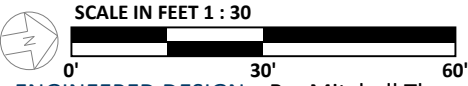
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	30.33
Maximum	35
Minimum	22
Avg/Min	1.35
Max/Min	1.58
No. of Points	3
LUMINAIRE INFORMATION	
Applied Circuits	1
No. of Luminaires	22
Total Load	23.92 kW

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

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

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

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



ENGINEERED DESIGN By: Mitchell Thys • File #223169D\_1 • 10-Apr-24

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



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## ILLUMINATION SUMMARY

# Jack Allen Softball Complex

Decatur, AL

Grid Summary	
Name	Blanket Grid
Size	2040' x 940'
Spacing	20.0' x 20.0'
Height	3.0' above grade

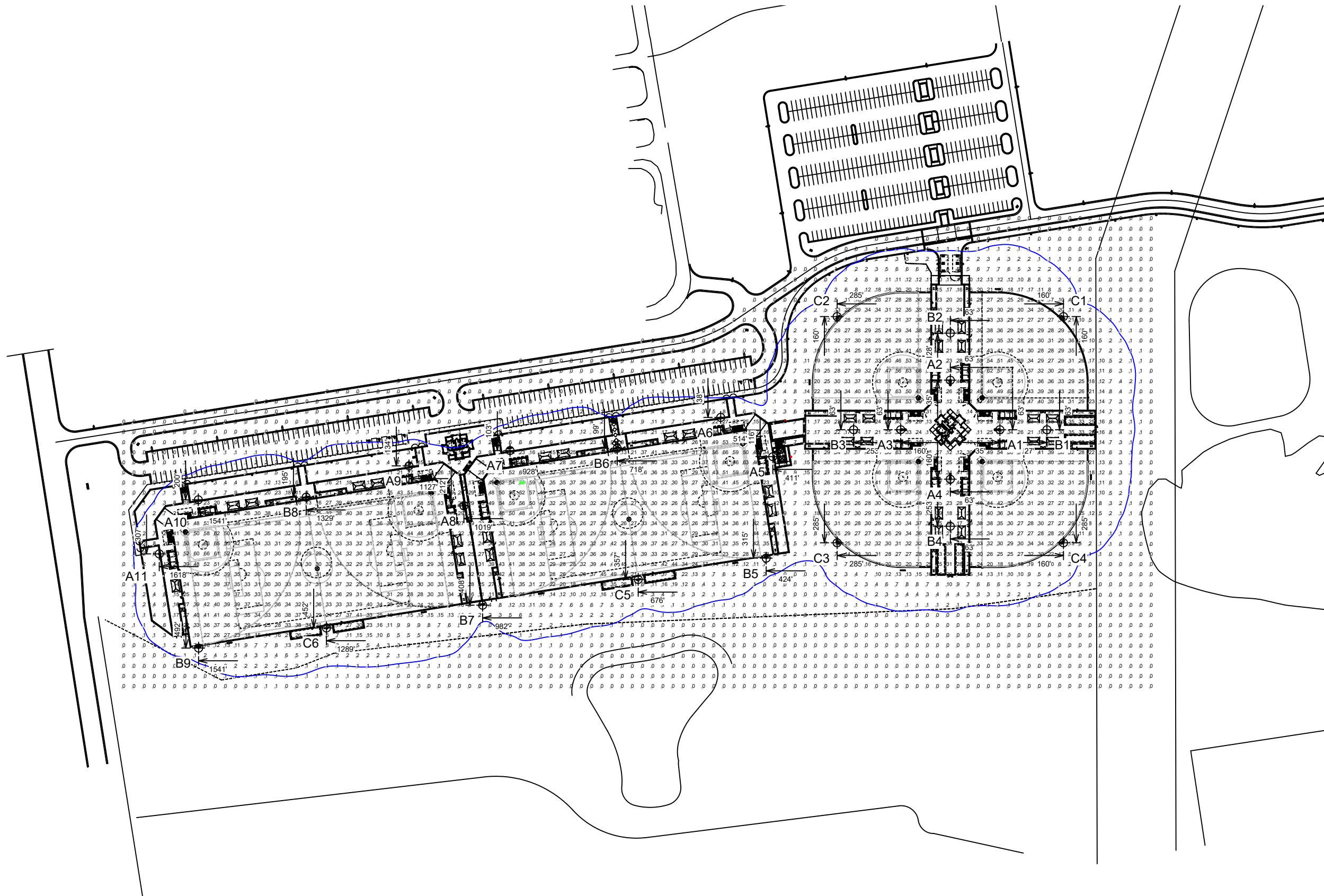
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	15.02
Maximum	66
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	130.05
CU	0.92
No. of Points	400
LUMINAIRE INFORMATION	
Applied Circuits	A,B,C,D,E,F,G,H,I,J,K,L
No. of Luminaires	196
Total Load	199.76 kW

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

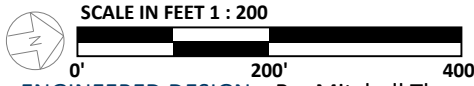
**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



NOTES: Contour line shows light out to 1FC. This is with all fixtures on.



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



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## ILLUMINATION SUMMARY

# Jack Allen Softball Complex

Decatur, AL

## Equipment Layout

- INCLUDES:**
- Blanket Grid
  - Field 1
  - Field 2
  - Field 3
  - Field 4
  - Field 5
  - Field 6
  - Field 7
  - Field 8
  - Soccer A
  - Soccer B

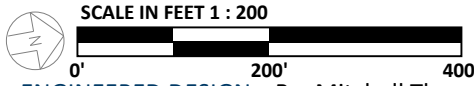
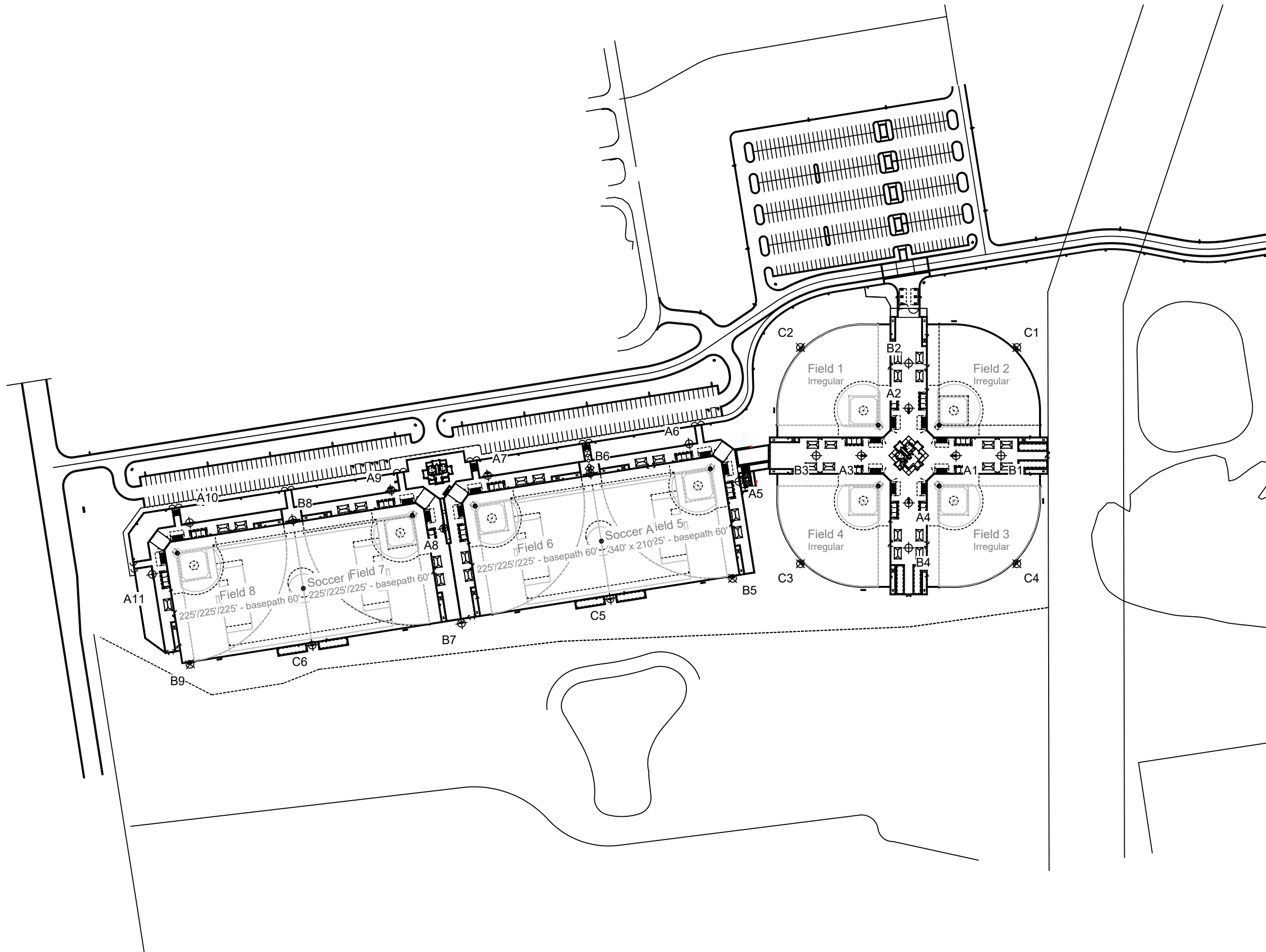
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**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
4	A1-A4	60'	-	60'	TLC-LED-900	3/3*
6	A5-A7 A9-A11	60'	-	60'	TLC-LED-1200	1
				60'	TLC-LED-900	2
				15.5'	TLC-BT-575	1
1	A8	60'	6'	66'	TLC-LED-1200	1/1*
				66'	TLC-LED-900	2/2*
				21.5'	TLC-BT-575	2
2	B1 B4	70'	-	15.5'	TLC-BT-575	2
				70'	TLC-LED-900	1/1*
				70'	TLC-LED-1500	2/2*
				70'	TLC-LED-1200	2/2*
2	B2-B3	70'	-	70'	TLC-LED-1200	2/2*
				15.5'	TLC-BT-575	2
				70'	TLC-LED-550	1/1*
				70'	TLC-LED-1500	2/2*
1	B5	70'	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-1200	3
				70'	TLC-LED-1500	2
				70'	TLC-LED-550	1
2	B6 B8	80'	-	80'	TLC-LED-1200	2
				80'	TLC-LED-1500	8
				80'	TLC-LED-550	2
				15.5'	TLC-BT-575	2
1	B7	80'	4'	84'	TLC-LED-1200	2
				84'	TLC-LED-1500	10
				19.5'	TLC-BT-575	2
1	B9	70'	-	15.5'	TLC-BT-575	1
				70'	TLC-LED-550	1
				70'	TLC-LED-1500	4
				70'	TLC-LED-1200	1
4	C1-C4	60'	-	60'	TLC-LED-1200	3
				15.5'	TLC-BT-575	2
2	C5-C6	60'	-	15.5'	TLC-BT-575	2
				60'	TLC-LED-550	2
				60'	TLC-LED-1500	4
26	Totals					196

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



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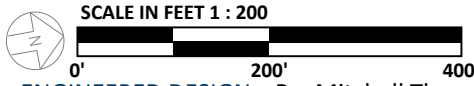
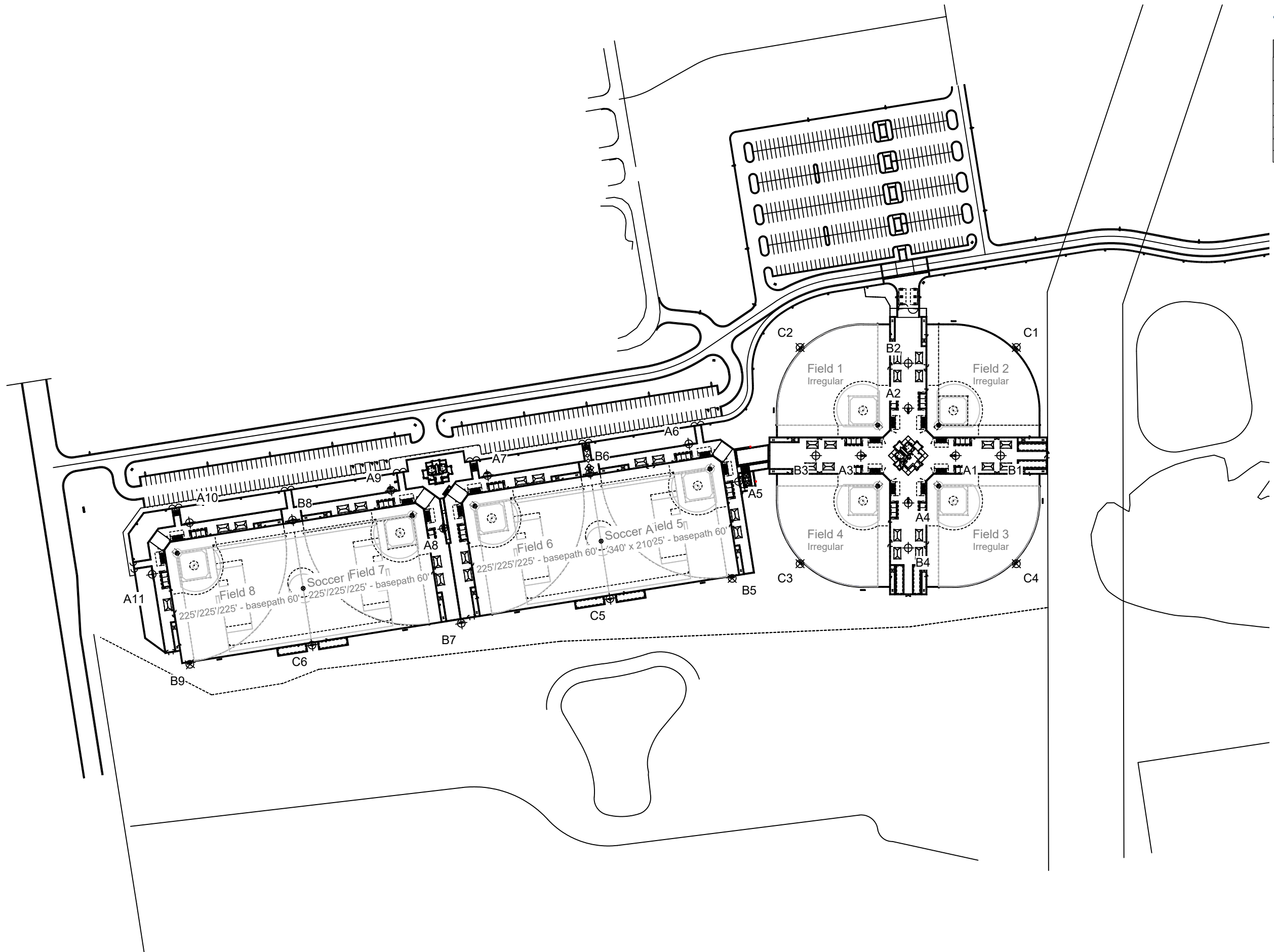


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# Jack Allen Softball Complex

Decatur, AL

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-550	3.2	3.0	2.8	2.4	1.9	1.8
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9



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



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