



Special Use Permit Application Form

Montgomery County, Virginia

755 Roanoke St. Suite 2A, Christiansburg, VA 24073
540-394-2148 | mcplan@montgomerycountyva.gov

Applicant Information: (PLEASE PRINT – if additional owners, please attach additional sheets)

Owner of Record (attach separate page for add'l owners): Montgomery County Board of Supervisors	Address: 755 Roanoke Street, St 2E, Christiansburg VA 24073
Telephone: 540-382-6954	Email: meadowsfc@montgomerycountyva.gov

Applicant Name: Owner Contract Purchaser/Lessee Montgomery County Board of Supervisors	Address:
Telephone:	Email:

Representative Name and Company:	Address:
Telephone:	Email:

Property Description:

Location or Address: <i>(Describe in relation to nearest intersection)</i> 3595 Riner Road, Riner VA 24149		
Parcel ID Number(s): 019113	Acreage: 45.683	Existing Zoning: Agriculture (A1)
Comprehensive Plan Designation: Resource Stewardship	Existing Use: Community Park Under Construction	

Description of Request: (Please provide additional information on attached sheet if necessary)

Proposed Use(s) including acreage: Park, Lighted

I certify that the information supplied on this application and on the attachments provided (maps or other information) is accurate and true to the best of my knowledge. In addition, I hereby grant permission to the agents and employees of Montgomery County and State of Virginia to enter the above property for the purposes of processing and reviewing the above application.

If signing on behalf of a Corporation, Partnership, or LLC, please specify your title with the entity and provide documentation clarifying your authority to sign on behalf of the entity.

<small>DocuSigned by:</small> 	3/21/2023
Owner 1 Signature	Date
Owner 2 Signature <i>(for add'l owners please attach separate sheet)</i>	Date
Applicant Signature	Date
Representative/Agent Signature	Date

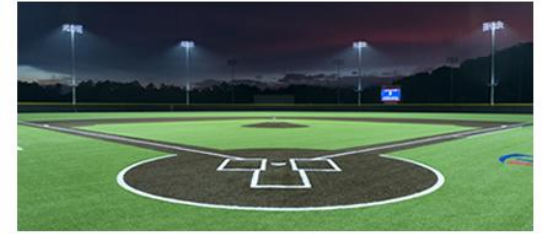
Montgomery County Auburn Park

Riner, VA

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	A
		60'	3	TLC-LED-900	2.64 kW	B
		16'	1	TLC-BT-575	0.58 kW	A
		16'	1	TLC-BT-575	0.58 kW	B
A2	60'	60'	3	TLC-LED-900	2.64 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A3	60'	60'	3	TLC-LED-900	2.64 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
A4-A5	60'	60'	3	TLC-LED-900	2.64 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
A6-A7	60'	60'	3	TLC-LED-900	2.64 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
B1	70'	70'	2	TLC-LED-1200	2.34 kW	A
		70'	2	TLC-LED-1200	2.34 kW	B
		70'	2	TLC-LED-900	1.76 kW	A
		70'	2	TLC-LED-900	1.76 kW	B
		16'	1	TLC-BT-575	0.58 kW	A
B2	60'	60'	2	TLC-LED-1200	2.34 kW	A
		60'	2	TLC-LED-900	1.76 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
B3	60'	60'	2	TLC-LED-1200	2.34 kW	B
		60'	2	TLC-LED-900	1.76 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
B4-B5	60'	60'	2	TLC-LED-1200	2.34 kW	C
		60'	2	TLC-LED-900	1.76 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
B6-B7	60'	60'	2	TLC-LED-1200	2.34 kW	D
		60'	2	TLC-LED-900	1.76 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
C1-C2	60'	60'	1	TLC-LED-1200	1.17 kW	A
		60'	2	TLC-LED-900	1.76 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
C3-C4	60'	60'	1	TLC-LED-1200	1.17 kW	B
		60'	2	TLC-LED-900	1.76 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
C5-C6	60'	60'	1	TLC-LED-1200	1.17 kW	C
		60'	2	TLC-LED-900	1.76 kW	C
		16'	1	TLC-BT-575	0.58 kW	C
C7-C8	60'	60'	1	TLC-LED-1200	1.17 kW	D
		60'	2	TLC-LED-900	1.76 kW	D
		16'	1	TLC-BT-575	0.58 kW	D
S1-S4	80'	80'	1	TLC-LED-1200	1.17 kW	E
		80'	4	TLC-LED-1500	5.64 kW	E
S5-S8	80'	80'	1	TLC-LED-1200	1.17 kW	F
		80'	4	TLC-LED-1500	5.64 kW	F
30			144		145.64 kW	

From Hometown to Professional



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Montgomery County Auburn Park

Riner, VA

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Softball 1	22.79 kW	26
B	Softball 2	22.79 kW	26
C	Softball 3	22.79 kW	26
D	Softball 4	22.79 kW	26
E	Soccer 1	27.24 kW	20
F	Soccer 2	27.24 kW	20

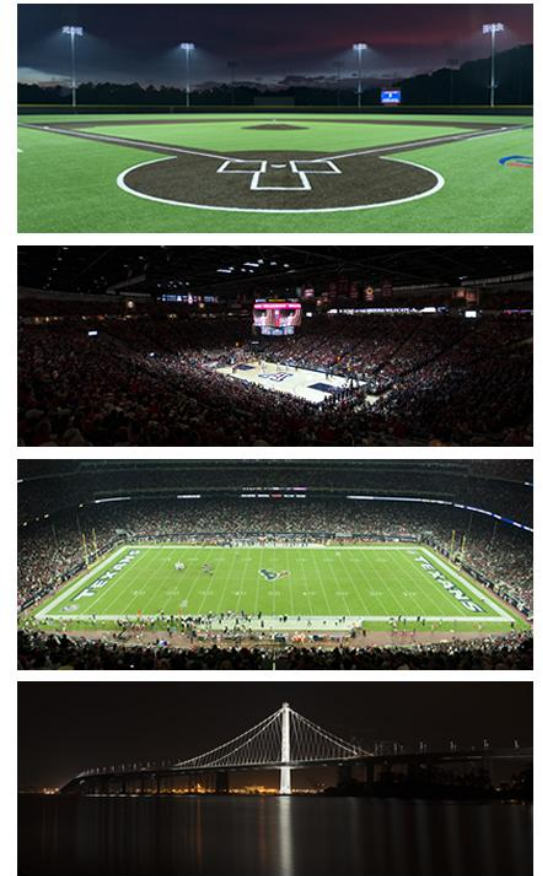
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	32
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	24
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	56
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	32

Single Luminaire Amperage Draw Chart							
Driver (.90 min power factor)	Max Line Amperage Per Luminaire						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Blanket Grid	Horizontal	5.84	0	64	0.00		A,B,C,D,E, F	144
Soccer 1	Horizontal Illuminance	31.1	23	35	1.54	1.35	E	20
Soccer 2	Horizontal Illuminance	31.1	23	35	1.54	1.35	F	20
Softball 1 (Infield)	Horizontal Illuminance	52.1	36	63	1.73	1.45	A	26
Softball 1 (Outfield)	Horizontal Illuminance	33.1	26	46	1.78	1.27	A	26
Softball 2 (Infield)	Horizontal Illuminance	53.2	41	67	1.64	1.30	B	26
Softball 2 (Outfield)	Horizontal Illuminance	33.2	26	43	1.68	1.28	B	26
Softball 3 (Infield)	Horizontal Illuminance	51.6	41	61	1.50	1.26	C	26
Softball 3 (Outfield)	Horizontal Illuminance	33.7	27	40	1.50	1.25	C	26
Softball 4 (Infield)	Horizontal Illuminance	51.6	41	61	1.50	1.26	D	26
Softball 4 (Outfield)	Horizontal Illuminance	33.7	27	40	1.50	1.25	D	26

From Hometown to Professional

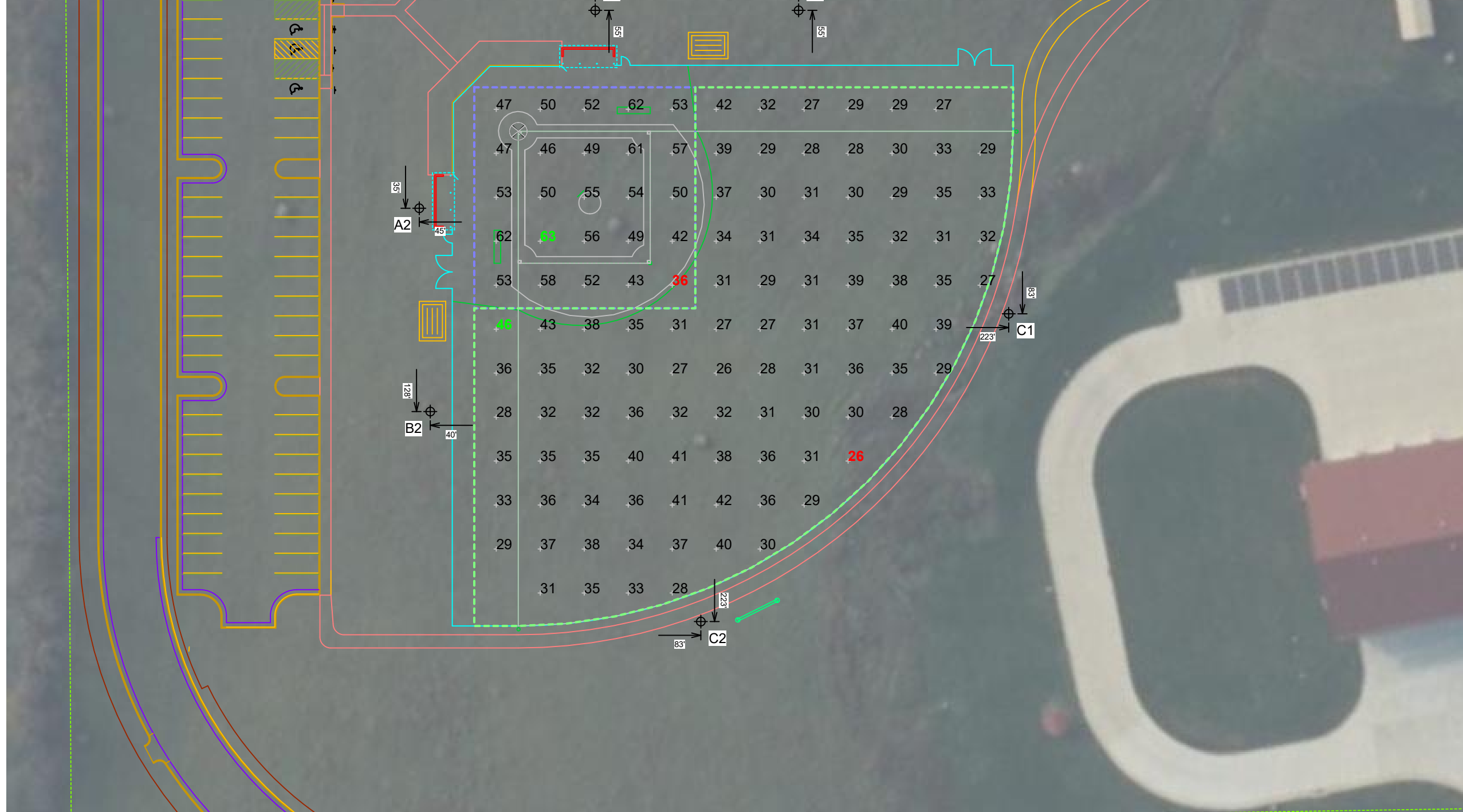


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EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	A1	60'	-	15.5'	TLC-BT-575	1/1*	1	1	
				60'	TLC-LED-900	3/3*	3	3	
1	A2	60'	-	15.5'	TLC-BT-575	1/1*	1	0	
				60'	TLC-LED-900	3/3*	3	0	
1	B1	70'	-	70'	TLC-LED-1200	2/2*	2	2	
				15.5'	TLC-BT-575	1/1*	1	1	
				70'	TLC-LED-900	2/2*	2	2	
1	B2	60'	-	60'	TLC-LED-1200	2/2*	2	0	
				15.5'	TLC-BT-575	1/1*	1	0	
				60'	TLC-LED-900	2/2*	2	0	
2	C1-C2	60'	-	60'	TLC-LED-1200	1/1*	1	0	
				15.5'	TLC-BT-575	1/1*	1	0	
				60'	TLC-LED-900	2/2*	2	0	
6	TOTALS						35	26	9

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



GRID SUMMARY	
Name:	Softball 1
Size:	225'/225'/225' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

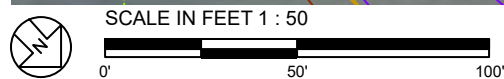
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	52.07	33.13
Maximum:	63	46
Minimum:	36	26
Avg / Min:	1.43	1.27
Guaranteed Max / Min:	2	2.5
Max / Min:	1.73	1.78
UG (adjacent pts):	1.25	1.33
CU:	0.67	
No. of Points:	25	94
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	26	
Total Load:	22.79 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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Montgomery County Auburn Park

Riner, VA

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	A1	60'	0'	15.52'	TLC-BT-575	1/1*	1	1
				60'	TLC-LED-900	3/3*	3	3
1	A3	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
1	B1	70'	0'	70'	TLC-LED-1200	2/2*	2	2
				15.52'	TLC-BT-575	1/1*	1	1
				70'	TLC-LED-900	2/2*	2	2
1	B3	60'	-	60'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	C3-C4	60'	-	60'	TLC-LED-1200	1	1	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
6	TOTALS					35	26	9

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

GRID SUMMARY	
Name:	Softball 2
Size:	225'/225'/225' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

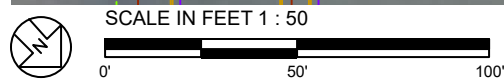
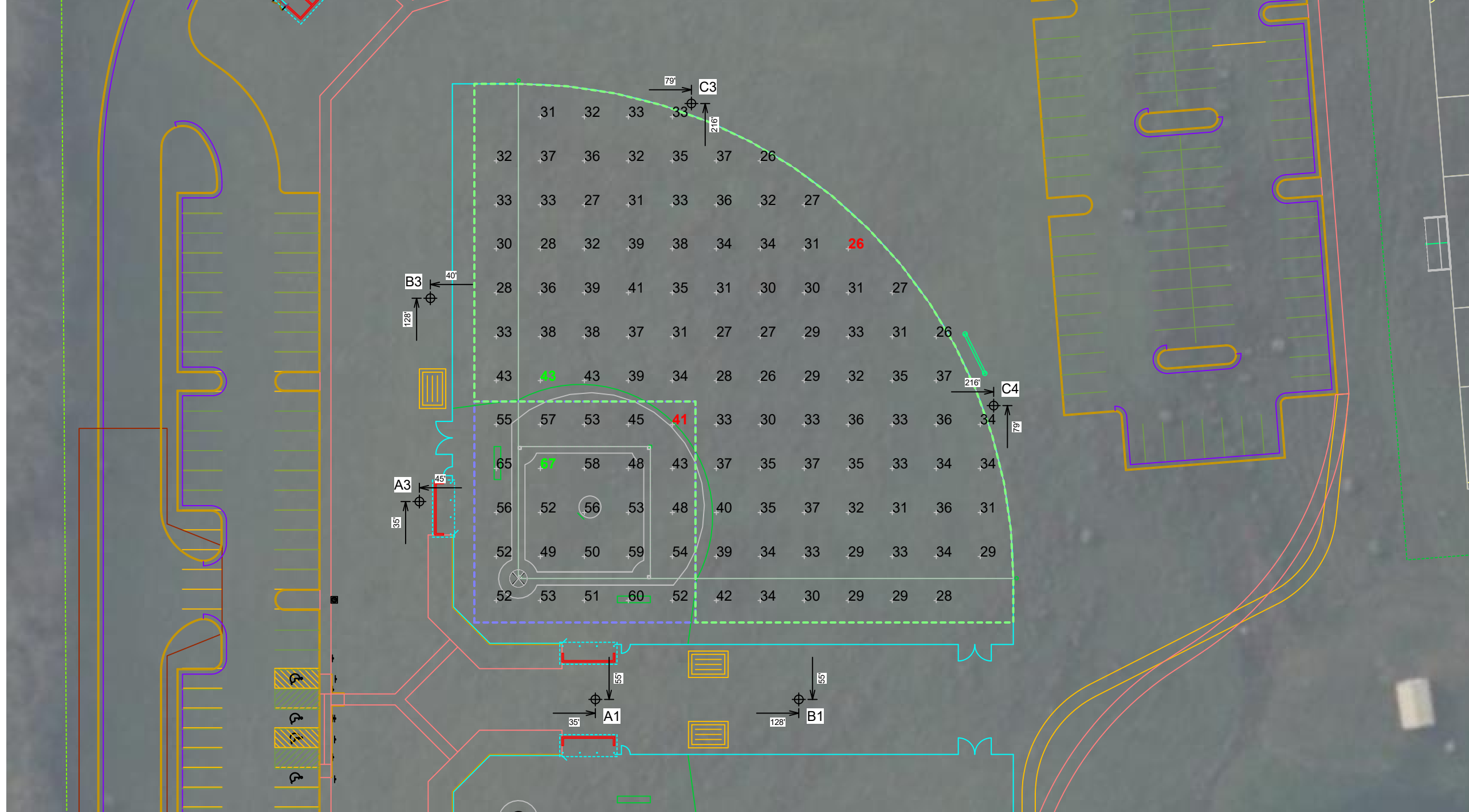
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	53.19	33.20
Maximum:	67	43
Minimum:	41	26
Avg / Min:	1.31	1.29
Guaranteed Max / Min:	2	2.5
Max / Min:	1.64	1.68
UG (adjacent pts):	1.27	1.43
CU:	0.67	
No. of Points:	25	94
LUMINAIRE INFORMATION		
Applied Circuits:	B	
No. of Luminaires:	26	
Total Load:	22.79 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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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	A4-A5	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	3	3	0	
2	B4-B5	60'	-	60'	TLC-LED-1200	2	2	0	
				15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	2	2	0	
2	C5-C6	60'	-	15.5'	TLC-LED-1200	1	1	0	
				15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-900	2	2	0	
6	TOTALS					26	26	0	

GRID SUMMARY	
Name:	Softball 3
Size:	225'/225'/225' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

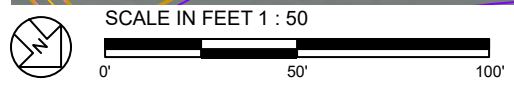
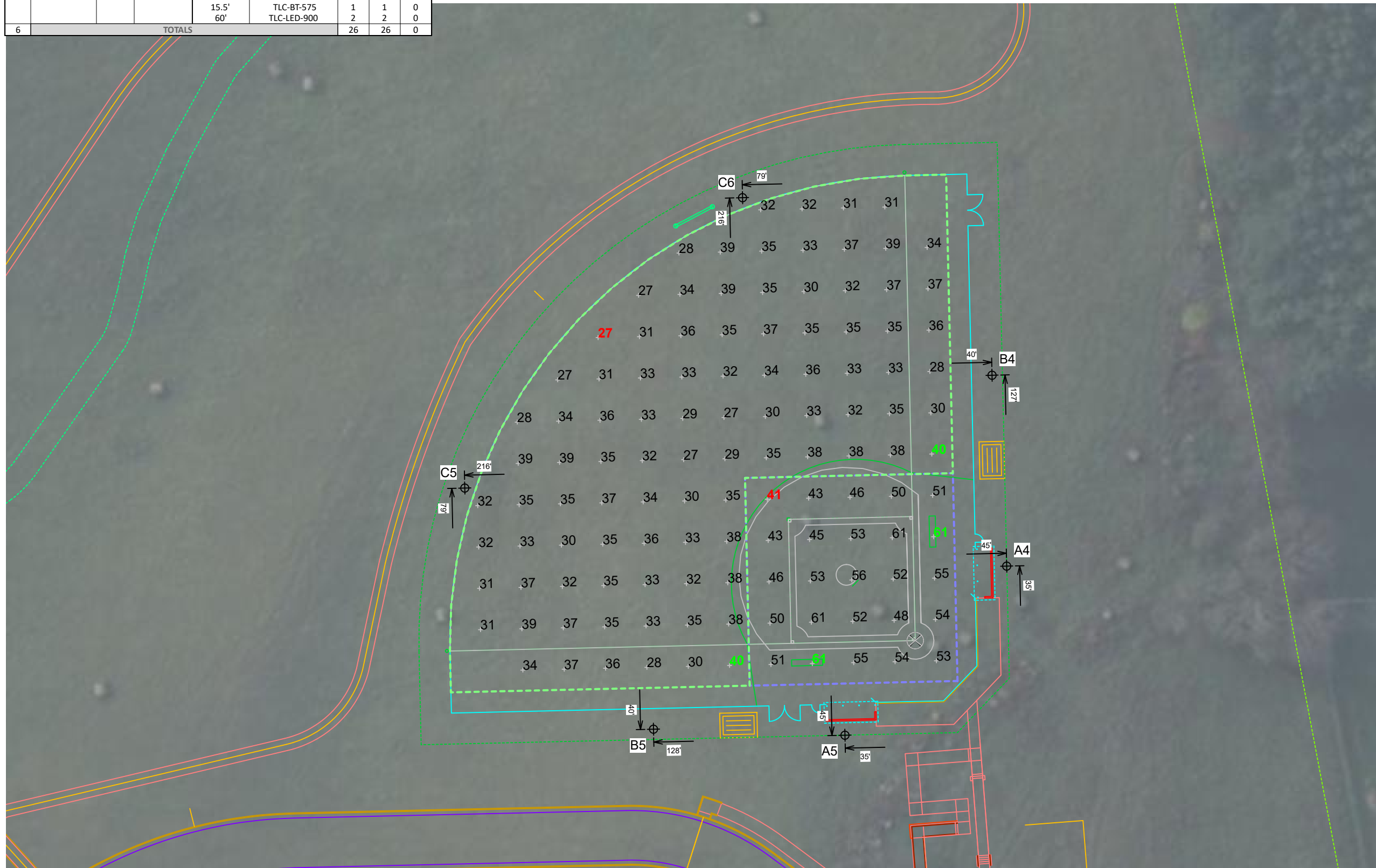
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.64	33.69
Maximum:	61	40
Minimum:	41	27
Avg / Min:	1.27	1.26
Guaranteed Max / Min:	2	2.5
Max / Min:	1.50	1.50
UG (adjacent pts):	1.22	1.40
CU:	0.67	
No. of Points:	25	94
LUMINAIRE INFORMATION		
Applied Circuits:	C	
No. of Luminaires:	26	
Total Load:	22.79 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	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A6-A7	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	3	3	0
2	B6-B7	60'	-	15.5'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
2	C7-C8	60'	-	15.5'	TLC-LED-1200	1	1	0
				15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-900	2	2	0
				60'	TLC-LED-900	2	2	0
6	TOTALS					26	26	0

GRID SUMMARY	
Name:	Softball 4
Size:	225'/225'/225' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

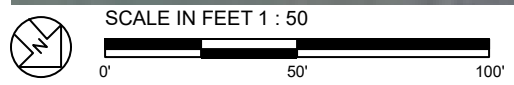
ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	50	30
Scan Average:	51.64	33.69
Maximum:	61	40
Minimum:	41	27
Avg / Min:	1.27	1.26
Guaranteed Max / Min:	2	2.5
Max / Min:	1.50	1.50
UG (adjacent pts):	1.22	1.40
CU:	0.67	
No. of Points:	25	94
LUMINAIRE INFORMATION		
Applied Circuits:	D	
No. of Luminaires:	26	
Total Load:	22.79 kW	

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

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

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



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



EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	S1-S4	80'	-	80'	TLC-LED-1200	1	1	0
				80'	TLC-LED-1500	4	4	0
4	TOTALS					20	20	0

GRID SUMMARY	
Name:	Soccer 1
Size:	360' x 225'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	31.10
Maximum:	35
Minimum:	23
Avg / Min:	1.35
Guaranteed Max / Min:	2.5
Max / Min:	1.54
UG (adjacent pts):	1.28
CU:	0.75
No. of Points:	96
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	20
Total Load:	27.24 kW

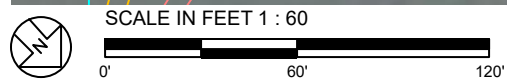


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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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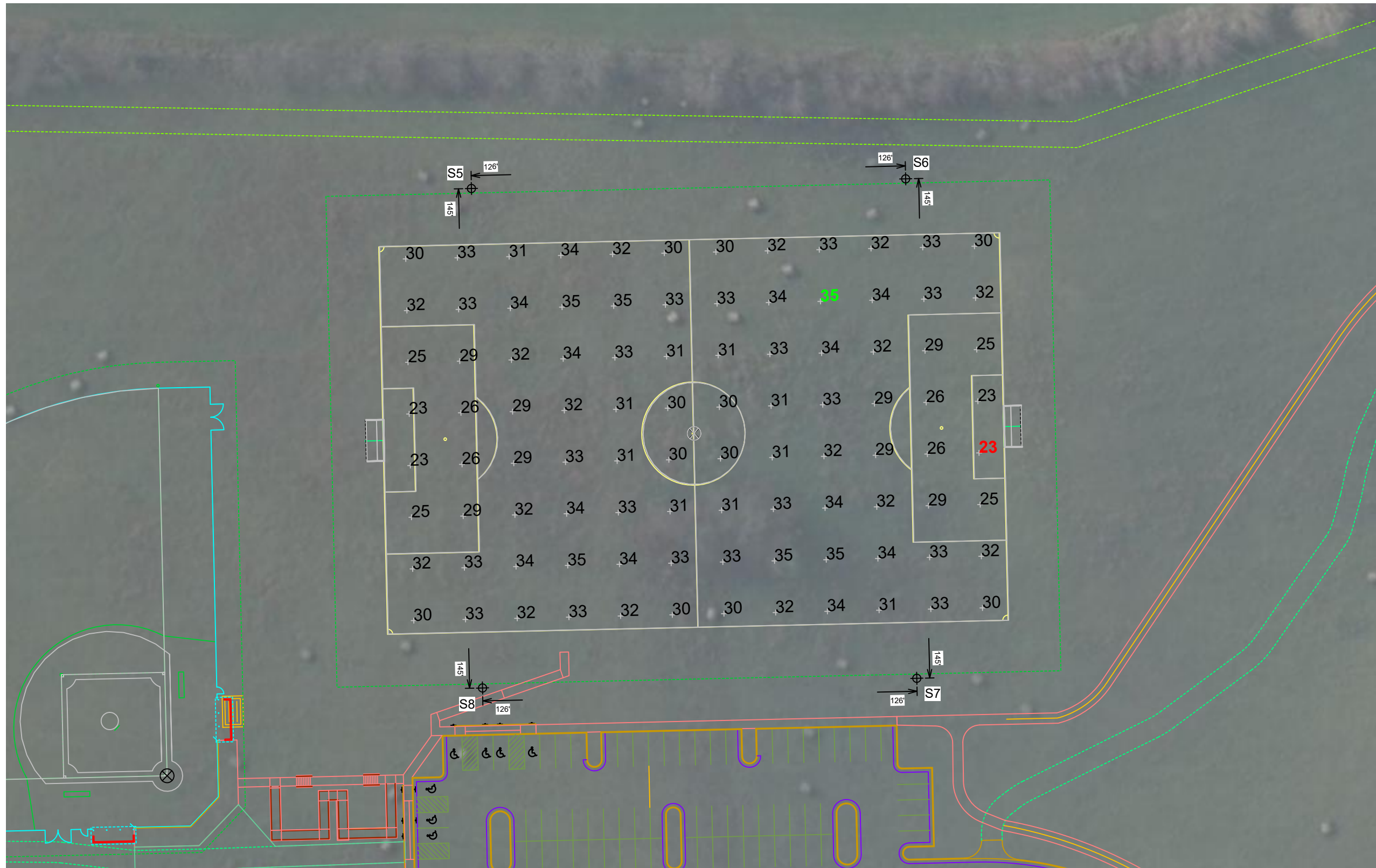
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EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
4	S5-S8	80'	-	80'	TLC-LED-1200	1	1
				80'	TLC-LED-1500	4	4
4	TOTALS					20	20

GRID SUMMARY	
Name:	Soccer 2
Size:	360' x 225'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	31.10
Maximum:	35
Minimum:	23
Avg / Min:	1.35
Guaranteed Max / Min:	2.5
Max / Min:	1.54
UG (adjacent pts):	1.28
CU:	0.75
No. of Points:	96
LUMINAIRE INFORMATION	
Applied Circuits:	F
No. of Luminaires:	20
Total Load:	27.24 kW



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

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Montgomery County Auburn Park

Riner, VA

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

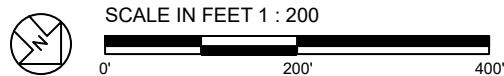
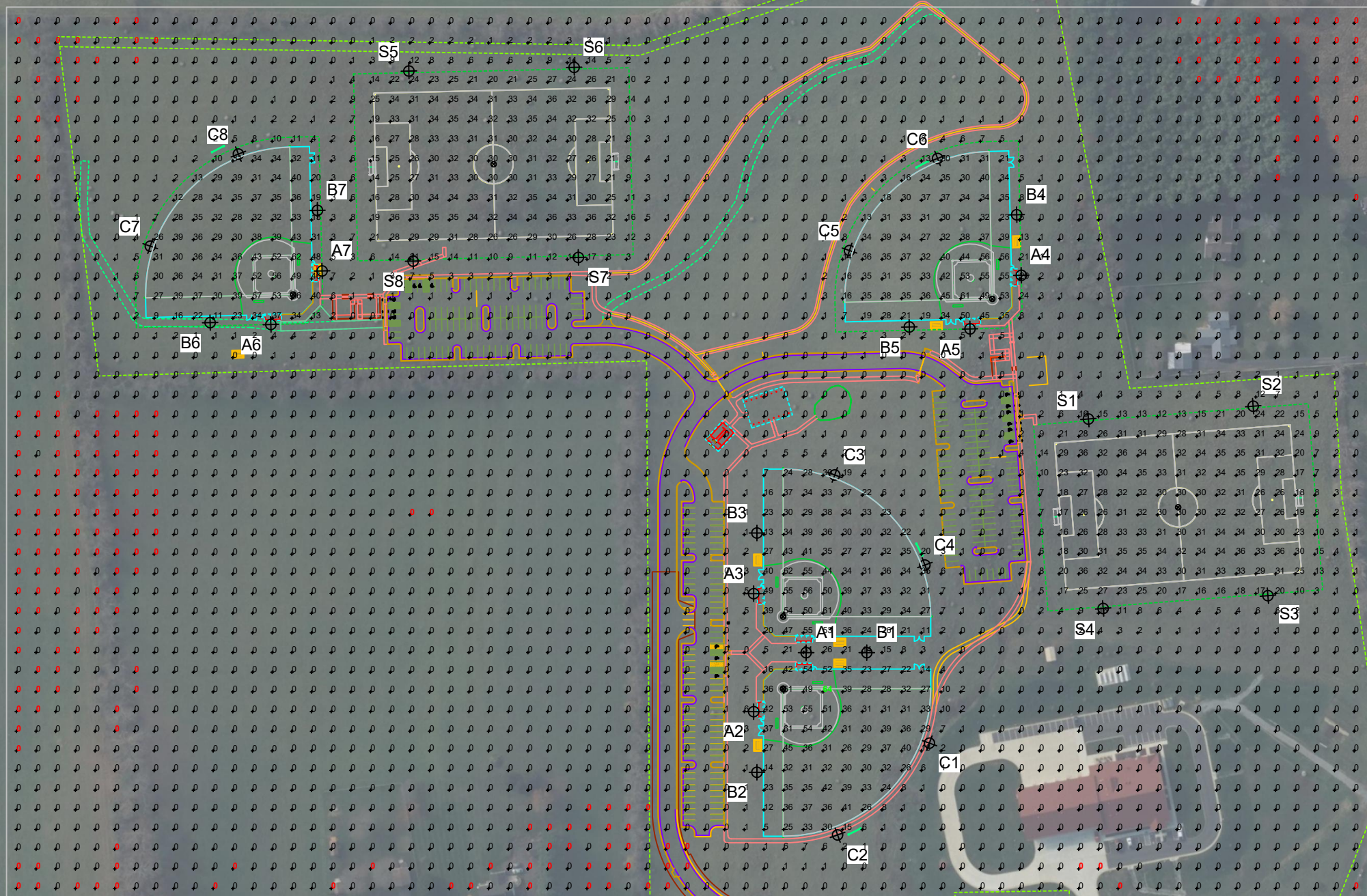
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	5.84
Maximum:	64
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	344.33
CU:	0.93
No. of Points:	3150
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	144
Total Load:	145.64 kW

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.



ENGINEERED DESIGN By: File #223564A · 20-Mar-23

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



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ILLUMINATION SUMMARY

Montgomery County Auburn Park Riner, VA

EQUIPMENT LAYOUT

INCLUDES:

- Soccer 1
- Soccer 2
- Softball 1
- Softball 2
- Softball 3
- Softball 4

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

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

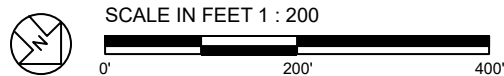
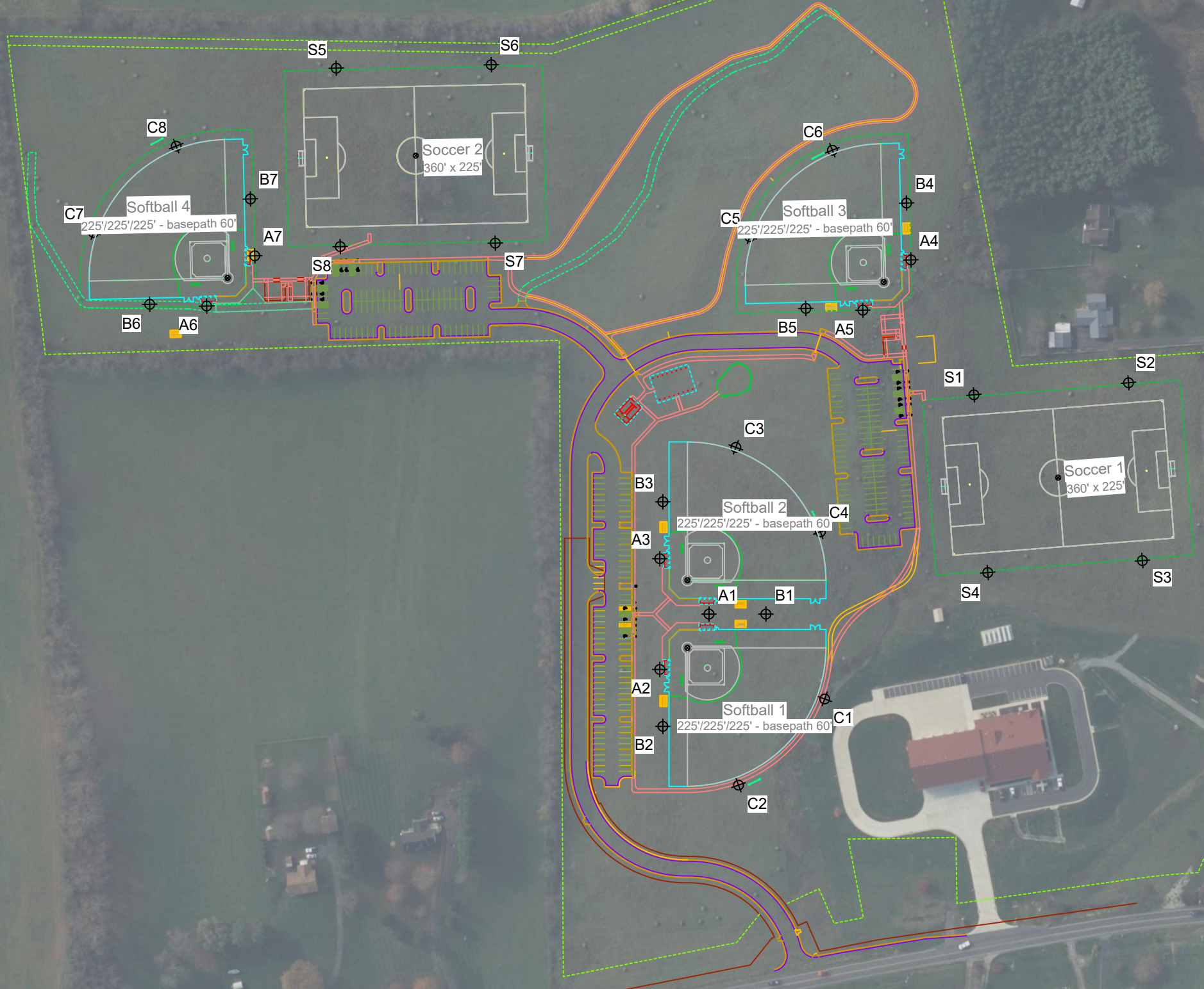
EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
1	A1	60'	-	15.5' 60'	TLC-BT-575 TLC-LED-900	1/1* 3/3*
6	A2-A7	60'	-	15.5' 60'	TLC-BT-575 TLC-LED-900	1 3
1	B1	70'	-	70' 15.5' 70'	TLC-LED-1200 TLC-BT-575 TLC-LED-900	2/2* 1/1* 2/2*
6	B2-B7	60'	-	60' 15.5' 60'	TLC-LED-1200 TLC-BT-575 TLC-LED-900	2 1 2
8	C1-C8	60'	-	60' 15.5' 60'	TLC-LED-1200 TLC-BT-575 TLC-LED-900	1 1 2
8	S1-S8	80'	-	80' 80'	TLC-LED-1200 TLC-LED-1500	1 4
30	TOTALS					144

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

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8



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



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