

Chanute Football Retrofit

Chanute, KS

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	80'	80'	1	TLC-LED-550	0.54 kW	A
		80'	10	TLC-LED-1500	14.10 kW	A
		40'	2	TLC-LED-400	0.80 kW	C
		19'	1	TLC-RGB-U	0.43 kW	B
F3-F4	80'	19'	2	TLC-BT-575	1.15 kW	A
		80'	13	TLC-LED-1500	18.33 kW	A
		40'	2	TLC-LED-400	0.80 kW	C
		19'	1	TLC-RGB-U	0.43 kW	B
4		19'	2	TLC-BT-575	1.15 kW	A
			68		75.46 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Football	70.54 kW	56
B	Pole Accent	1.72 kW	4
C	Walking Track	3.20 kW	8

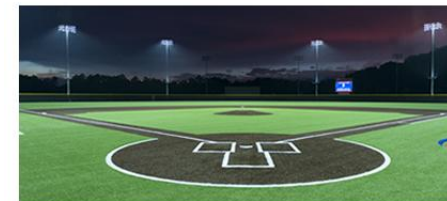
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	46
TLC-LED-400	LED 5700K - 75 CRI	400W	46,500	>120,000	>120,000	>120,000	8
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	2
TLC-RGB-U	RED-GREEN (Shown)-BLUE	430W	16,000	21,300	>36,300	>36,300	4

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-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-400	2.3	2.2	2.0	1.7	1.4	1.3	1.0
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-RGB-U	3.0	2.8	2.6	2.2	1.8	1.3	1.3

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
150' Glare @ 5ft.	Max Candela (by Fixture)	2518.859	0.00	9957.60	-	-	A,B	60
150' Spill @ 3ft.	Horizontal Illuminance	0.022	0.00	0.05	-	-	A,B	60
150' Spill @ 5ft.	Max Vertical Illuminance Metric	0.057	0.00	0.13	-	-	A,B	60
Field Events	Horizontal	20.6	12	27	2.34	1.77	A	56
Football	Horizontal Illuminance	50.4	41	66	1.59	1.22	A	56
Home Bleacher	Horizontal	21.1	9	34	3.67	2.31	A	56
Soccer	Horizontal Illuminance	51.3	41	66	1.61	1.24	A	56
Track	Horizontal Illuminance	30.4	18	50	2.86	1.74	A	56
Visitor Bleacher	Horizontal	20.2	17	23	1.41	1.22	A	56

From Hometown to Professional



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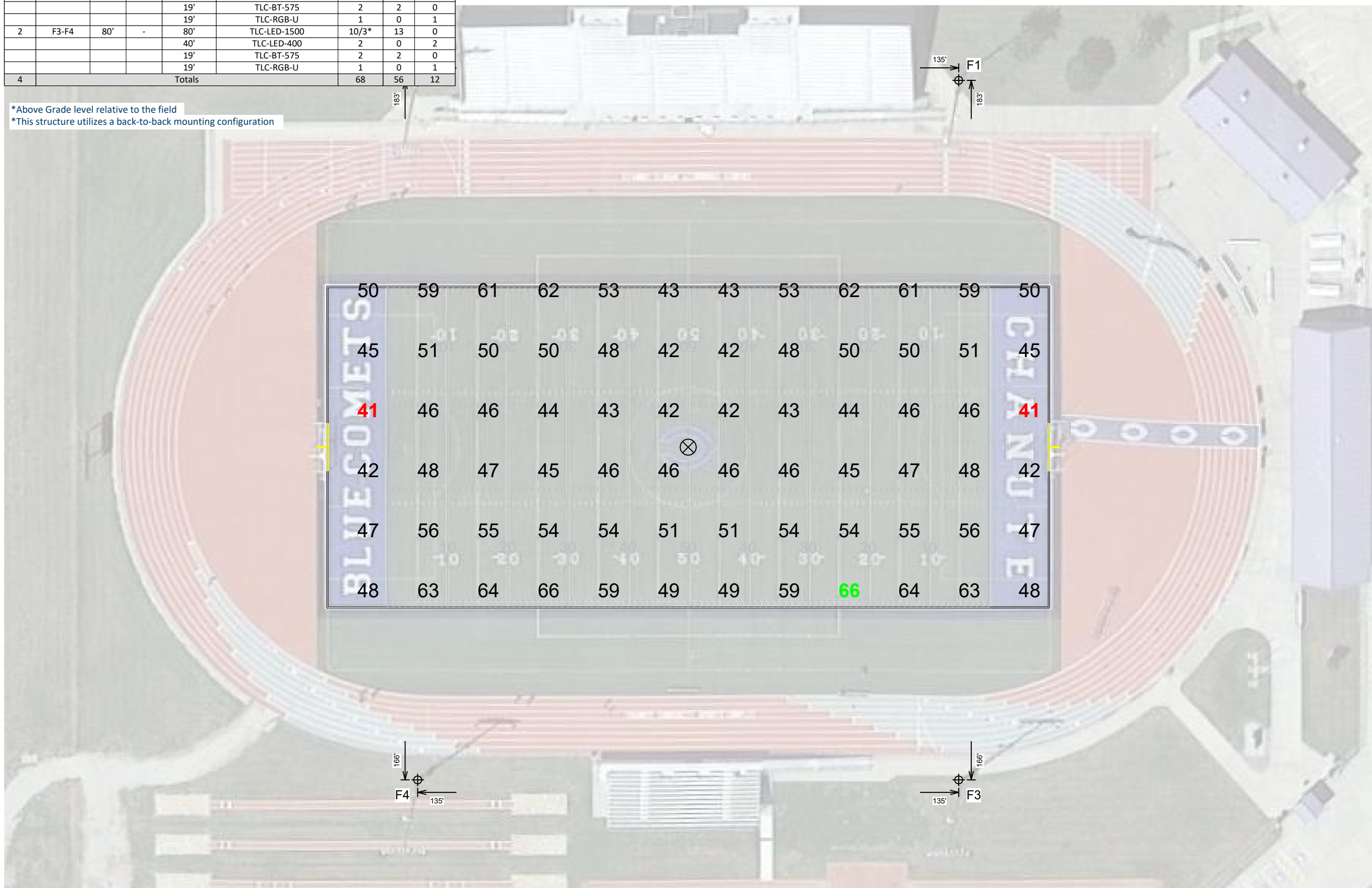
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PROJECT SUMMARY

Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4	Totals					68	56	12

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



50	59	61	62	53	43	43	53	62	61	59	50
45	51	50	50	48	42	42	48	50	50	51	45
41	46	46	44	43	42	42	43	44	46	46	41
42	48	47	45	46	46	46	46	45	47	48	42
47	56	55	54	54	51	51	54	54	55	56	47
48	63	64	66	59	49	49	59	66	64	63	48

Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	Football
Size	360' x 160'
Spacing	30.0'
Height	3.0' above grade

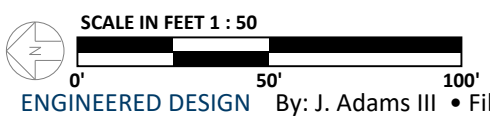
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Entire Grid: 50
Scan Average	50.4
Maximum	66
Minimum	41
Avg/Min	1.22
Guaranteed Max/Min	2
Max/Min	1.59
UG (adjacent pts)	1.33
CU	0.36
No. of Points	72
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 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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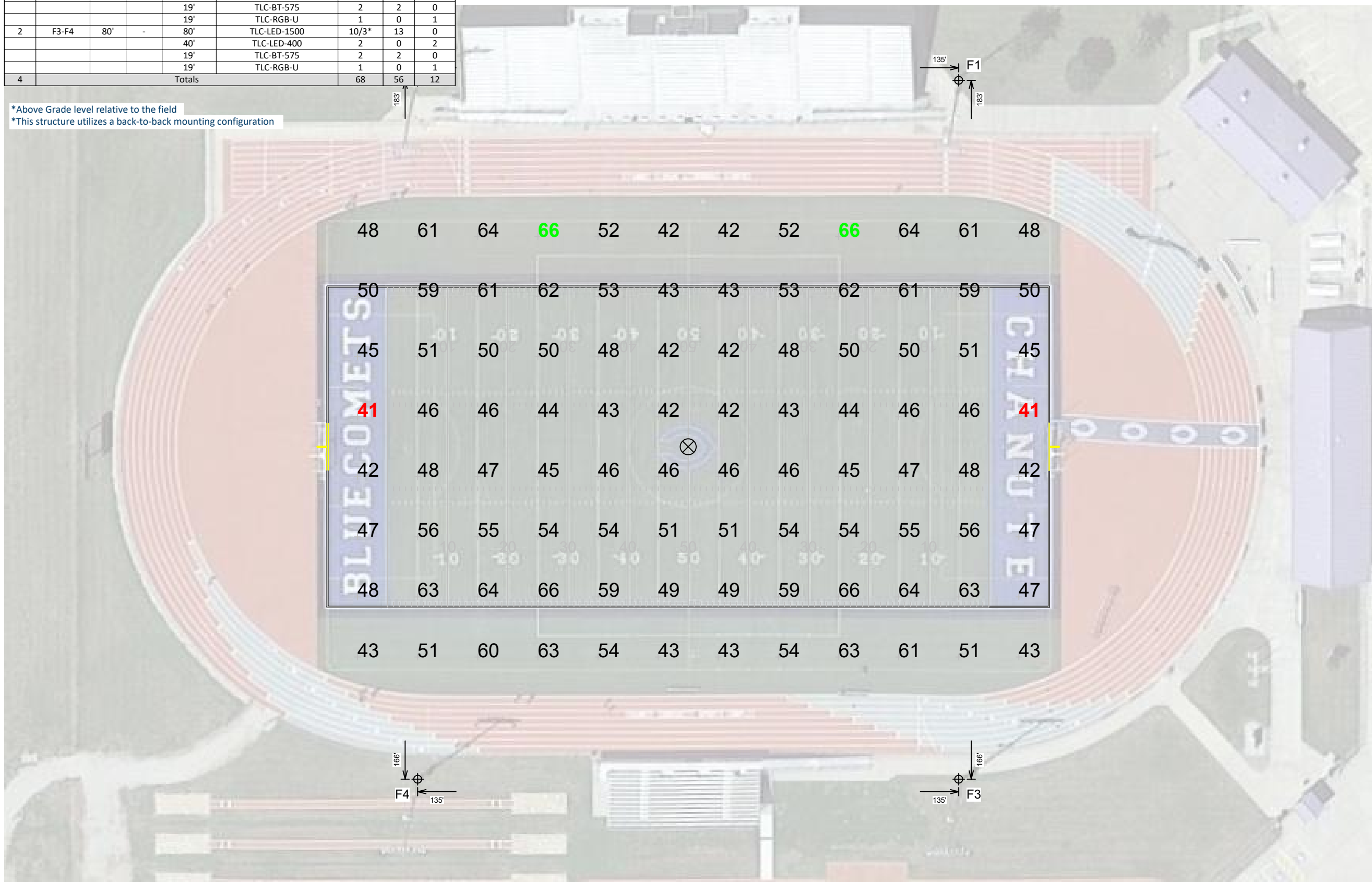
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4	Totals					68	56	12

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



Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	Soccer
Size	360' x 160'
Spacing	30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Entire Grid 50
Scan Average	51.3
Maximum	66
Minimum	41
Avg/Min	1.24
Guaranteed Max/Min	2
Max/Min	1.61
UG (adjacent pts)	1.33
CU	0.49
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 kW

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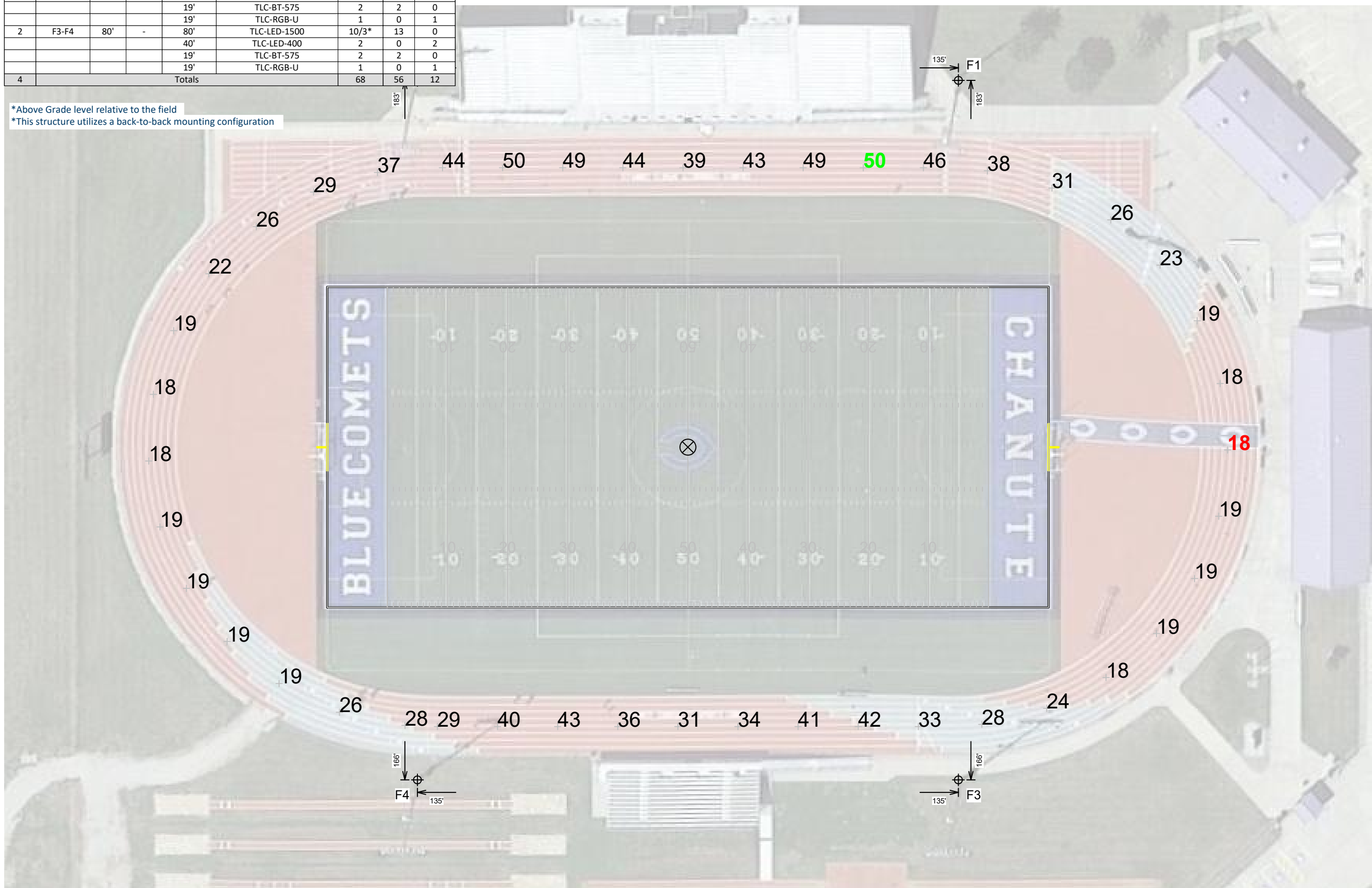
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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4				Totals		68	56	12

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Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name Track	Entire Grid
Size	360' x 160'
Spacing	30.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	30
Scan Average	30.4
Maximum	50
Minimum	18
Avg/Min	1.74
Guaranteed Max/Min	3
Max/Min	2.86
UG (adjacent pts)	0.00
CU	0.13
No. of Points	44
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 kW

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SCALE IN FEET 1 : 50
 0' 50' 100'
 ENGINEERED DESIGN By: J. Adams III • File #225660B • 26-Nov-24

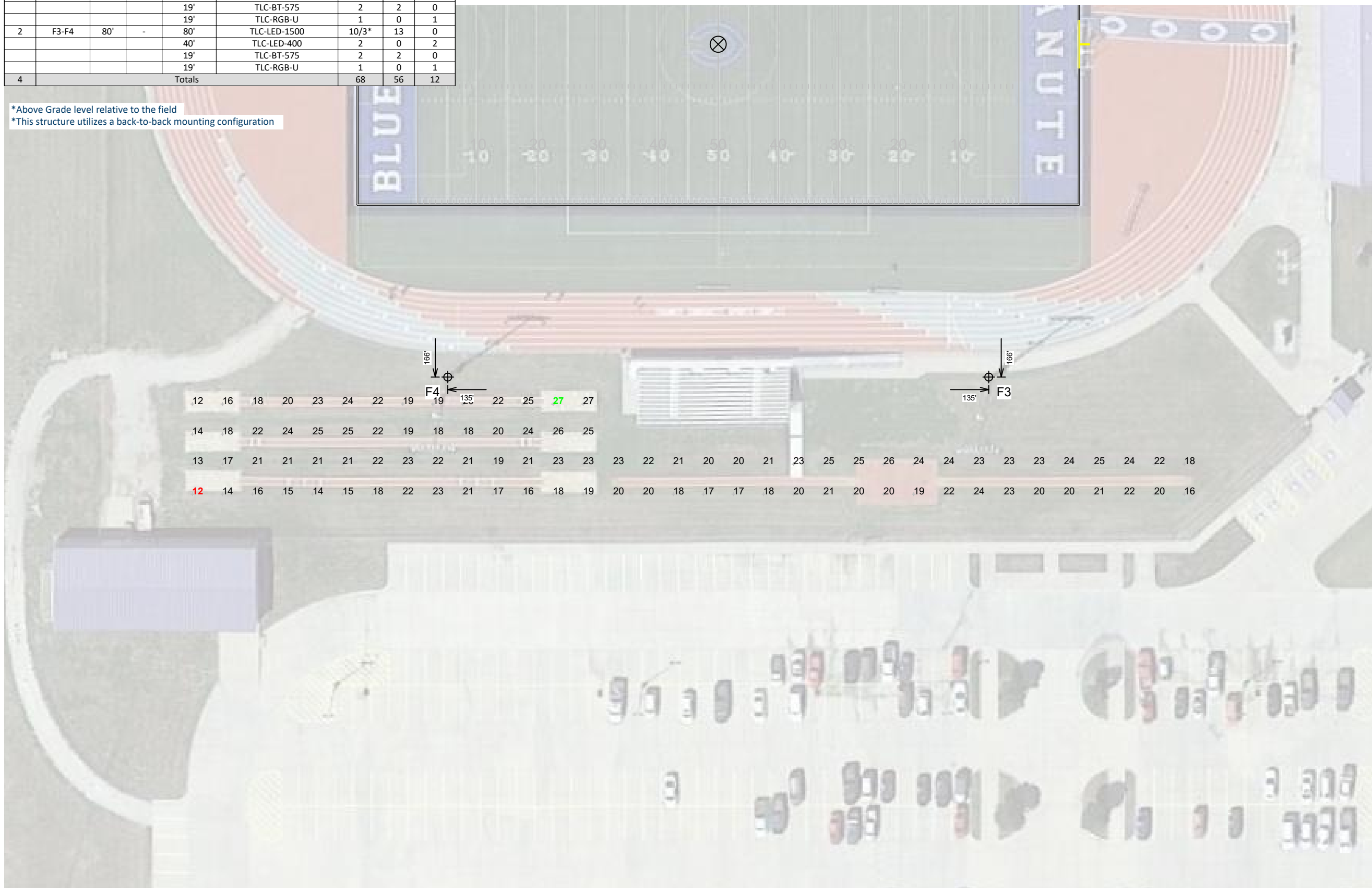
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ILLUMINATION SUMMARY

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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4	Totals					68	56	12

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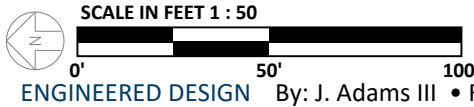
Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	Field Events
Size	360' x 160'
Spacing	15.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	20.6
Maximum	27
Minimum	12
Avg/Min	1.77
Max/Min	2.34
UG (adjacent pts)	1.55
CU	0.05
No. of Points	96
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 kW

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We Make It Happen.

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4	Totals					68	56	12

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12	14	17	19	19	17	14	12	11	10	9	9	10	11	13	14	17	19	19	17	14	11
15	19	21	23	23	21	19	17	16	15	14	14	15	16	17	19	21	23	23	21	19	15
18	22	25	27	28	27	25	23	22	21	20	20	21	22	23	25	27	28	27	25	22	17
21	25	28	31	33	33	32	30	28	27	26	26	27	28	30	32	34	33	31	28	25	20

Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	Home Bleacher
Size	360' x 160'
Spacing	10.0'

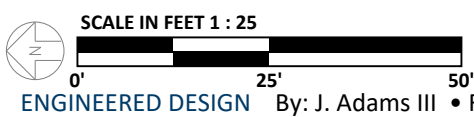
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	21.1
Scan Average	21.1
Maximum	34
Minimum	9
Avg/Min	2.31
Max/Min	3.67
UG (adjacent pts)	1.57
CU	0.02
No. of Points	88
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 kW

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Equipment List For Areas Shown								
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	0	1
4	Totals					68	56	12

*Above Grade level relative to the field
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Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	Visitor Bleacher
Size	360' x 160'
Spacing	10.0'

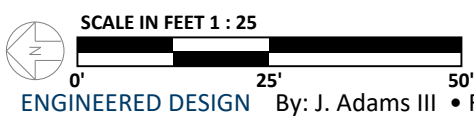
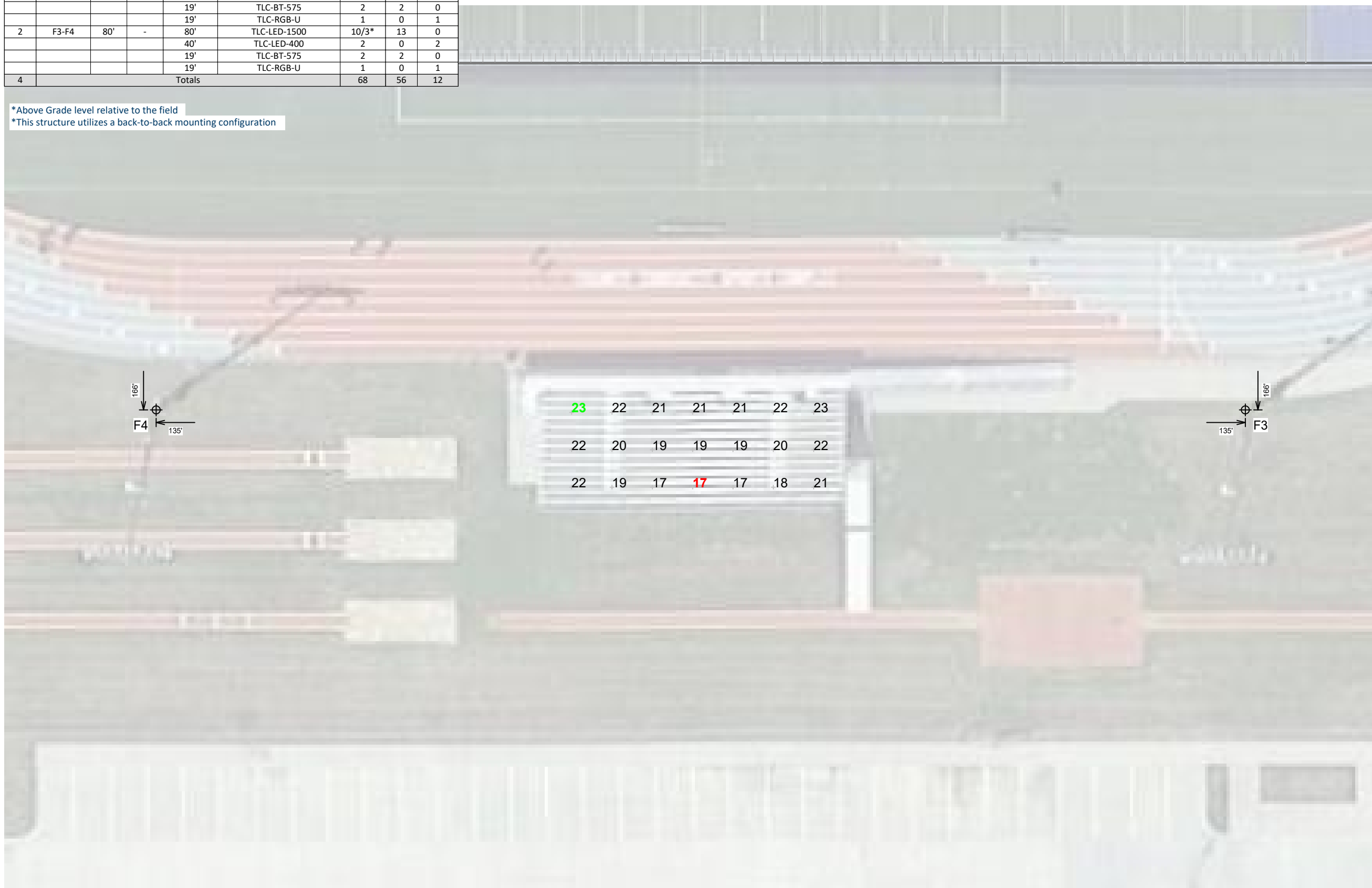
Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average	20.2
Maximum	23
Minimum	17
Avg/Min	1.22
Max/Min	1.41
UG (adjacent pts)	1.15
CU	0.00
No. of Points	21
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	56
Total Load	70.54 kW

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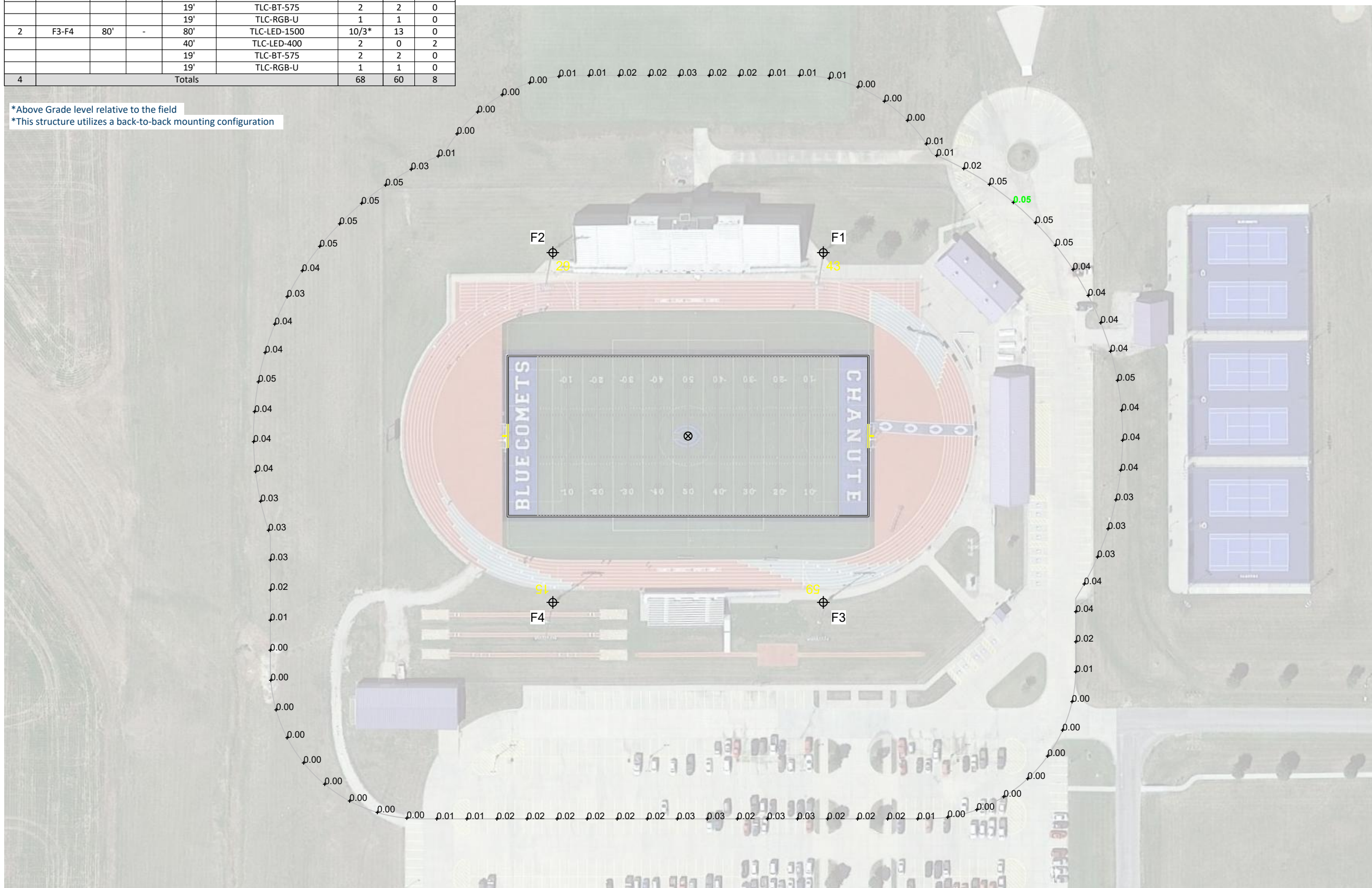
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2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
				Totals				

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Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	150' Spill @ 3ft.
Spacing	30.0'
Height	3.0' above grade

Illumination Summary	
	INITIAL HORIZONTAL FOOTCANDLES
	Entire Grid
Scan Average	0.022
Maximum	0.05
Minimum	0.00
CU	0.00
No. of Points	91
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	60
Total Load	72.26 kW

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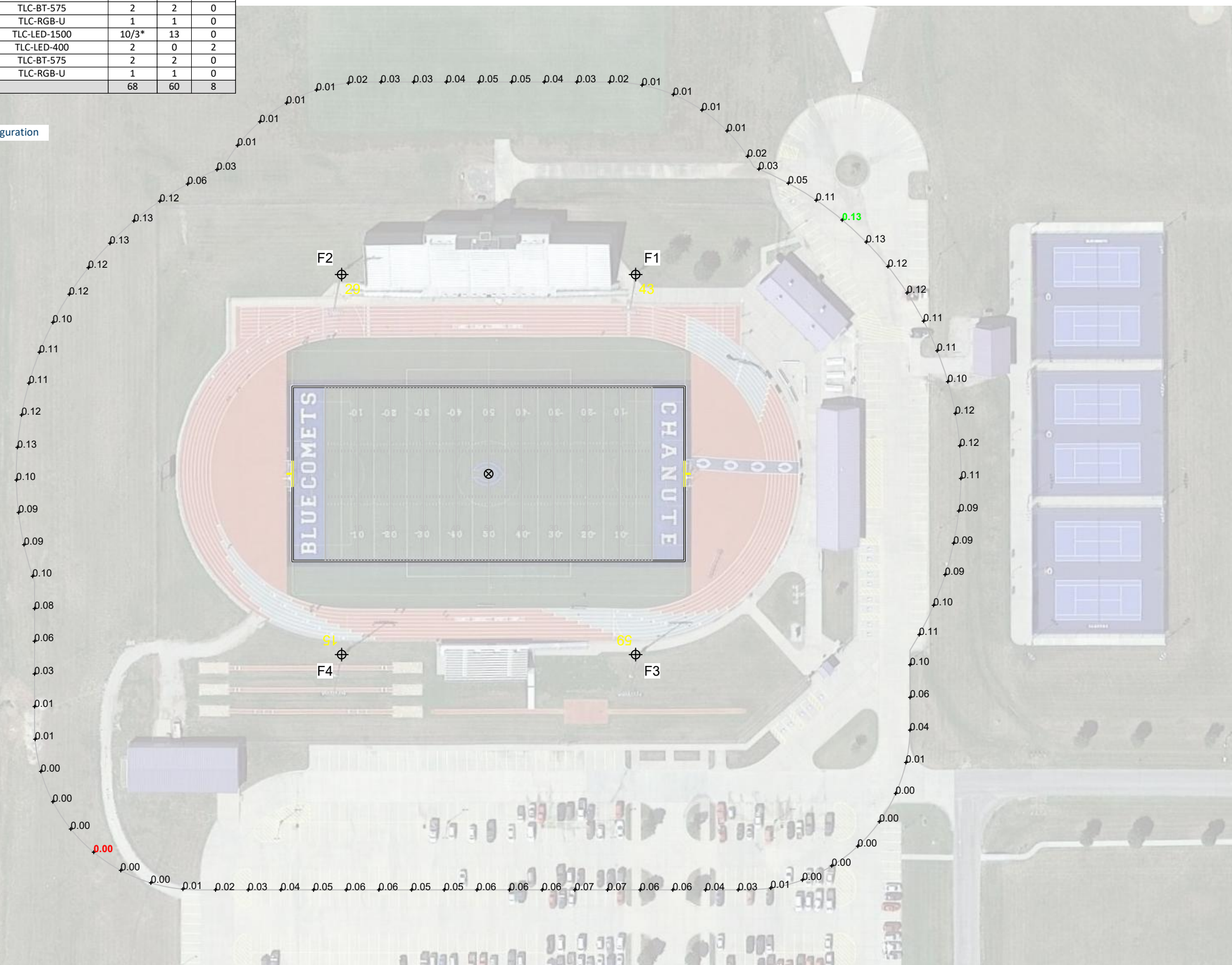
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				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
				Totals				

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Grid Summary	
Name	150' Spill @ 5ft.
Spacing	30.0'
Height	5.0' above grade

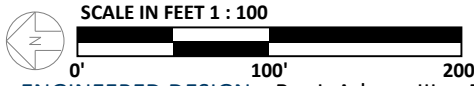
Illumination Summary	
INITIAL MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.057
Maximum	0.13
Minimum	0.00
CU	0.00
No. of Points	91
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	60
Total Load	72.26 kW

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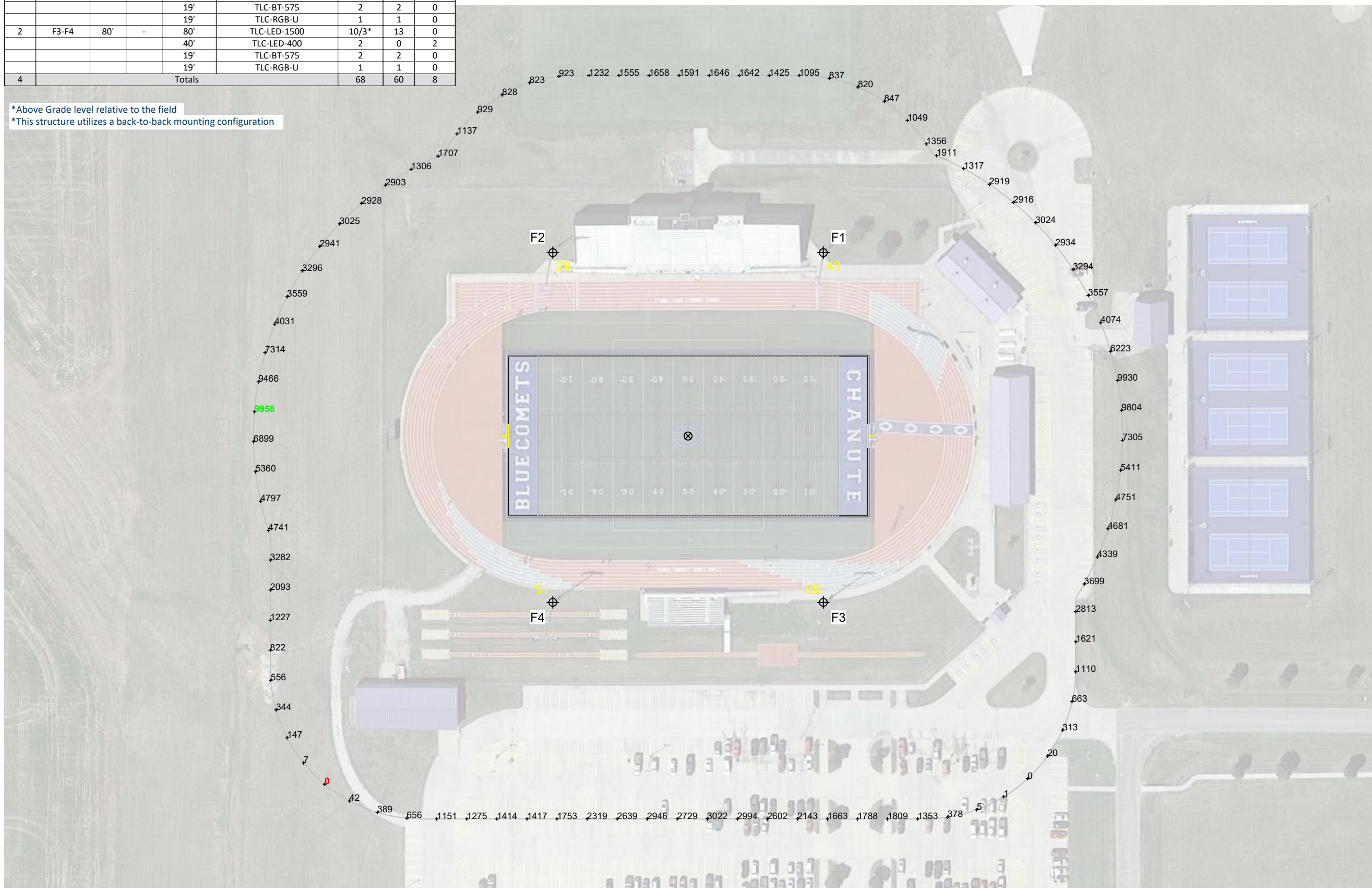
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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1500	10	10	0
				80'	TLC-LED-550	1*	1	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*	13	0
				40'	TLC-LED-400	2	0	2
				19'	TLC-BT-575	2	2	0
				19'	TLC-RGB-U	1	1	0
				Totals				

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



Chanute Football Retrofit

Chanute, KS

Grid Summary	
Name	150' Glare @ 5ft.
Spacing	30.0'
Height	5.0' above grade

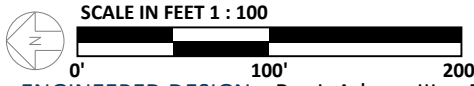
Illumination Summary	
	INITIAL CANDELA (PER LIGHTBANK)
Entire Grid	
Scan Average	2518.859
Maximum	9957.60
Minimum	0.00
CU	0.00
No. of Points	91
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	60
Total Load	72.26 kW

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.



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



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ILLUMINATION SUMMARY

Chanute Football Retrofit

Chanute, KS

Equipment Layout

INCLUDES:
· Football

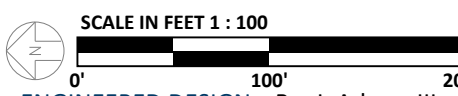
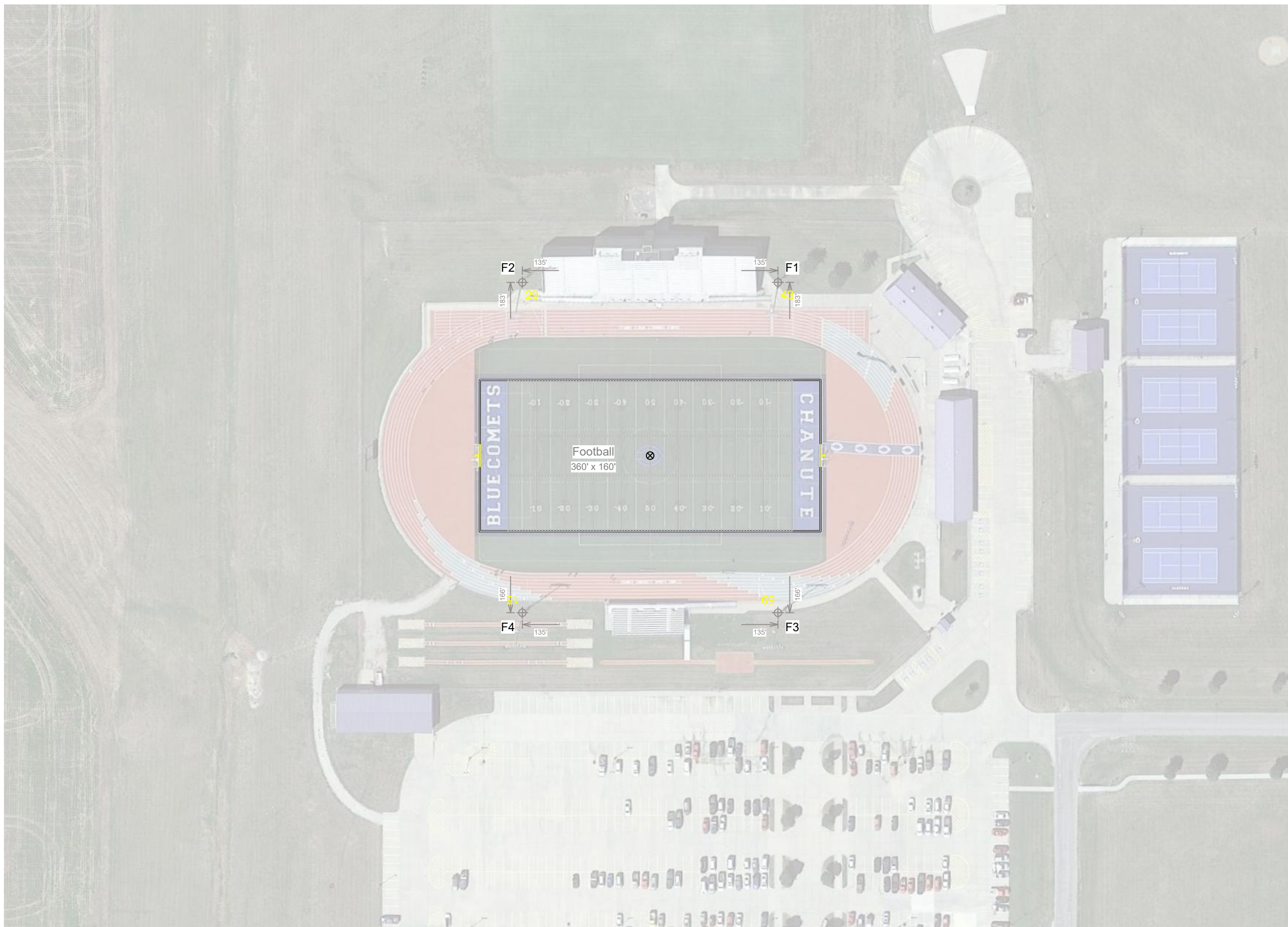
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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
2	F1-F2	80'	-	80'	TLC-LED-1500	10
				80'	TLC-LED-550	1*
				40'	TLC-LED-400	2
				19'	TLC-BT-575	2
2	F3-F4	80'	-	80'	TLC-LED-1500	10/3*
				40'	TLC-LED-400	2
				19'	TLC-BT-575	2
4	Totals			19'	TLC-RGB-U	1

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



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EQUIPMENT LAYOUT