

## Jet Drive Athletic Complex

Fort Walton Beach, FL

### Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P3	60'	60'	2	TLC-LED-1200	2.34 kW	A
		60'	1	TLC-LED-1500	1.41 kW	A
P4	70'	70'	3	TLC-LED-1200	3.51 kW	B
		70'	1	TLC-LED-900	0.88 kW	B
		60'	2	TLC-LED-1200	2.34 kW	A
P5	70'	60'	1	TLC-LED-1500	1.41 kW	A
		70'	3	TLC-LED-1200	3.51 kW	B
		70'	1	TLC-LED-900	0.88 kW	B
P6	70'	70'	3	TLC-LED-1200	3.51 kW	C
		70'	3	TLC-LED-1200	3.51 kW	B
		70'	1	TLC-LED-900	0.88 kW	C
P7	70'	70'	1	TLC-LED-900	0.88 kW	B
		70'	3	TLC-LED-1200	3.51 kW	B
		70'	3	TLC-LED-1200	3.51 kW	C
P8-P9	70'	70'	1	TLC-LED-900	0.88 kW	B
		70'	1	TLC-LED-900	0.88 kW	C
		70'	3	TLC-LED-1200	3.51 kW	C
P10-P12	50'	50'	4	TLC-LED-550	2.16 kW	D
P13	50'	50'	4	TLC-LED-550	2.16 kW	D
P14-P16	50'	50'	3	TLC-LED-550	1.62 kW	E
		50'	3	TLC-LED-550	1.62 kW	E
<b>16</b>			<b>72</b>		<b>65.24 kW</b>	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Field 1	15.0 kW	12
B	Field 2	17.56 kW	16
C	Field 3	17.56 kW	16
D	Field 4	8.64 kW	16
E	Field 5	6.48 kW	12

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	28
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	4
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	32
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	8

Single Luminaire Amperage Draw Chart								
Driver (.90 min power factor)	Max Line Amperage Per Luminaire							
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)	
Single Phase Voltage								
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	-	1.4	
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6	
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0	
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3	

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Field 1	Horizontal Illuminance	31.8	23.5	38.2	1.63	1.35	A	12
Field 2	Horizontal Illuminance	31.8	24.2	44.2	1.83	1.31	B	16
Field 3	Horizontal Illuminance	31.4	23.8	44.1	1.85	1.32	C	16
Field 4	Horizontal Illuminance	33.3	23.1	38.9	1.68	1.44	D	16
Field 5	Horizontal Illuminance	30.6	24.6	35.2	1.43	1.25	E	12
Glare (Cd) - 150' Offset	Max Candela (by Fixture)	536	24.6	2305	93.77	21.81	A,B,C,D,E	72
Spill - 150' Offset	Horizontal Illuminance	0	0	0.02	0.00		A,B,C,D,E	72
Spill - 150' Offset	Max Vertical Illuminance Metric	0.02	0	0.08	214.32		A,B,C,D,E	72

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From Hometown to Professional



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PROJECT SUMMARY

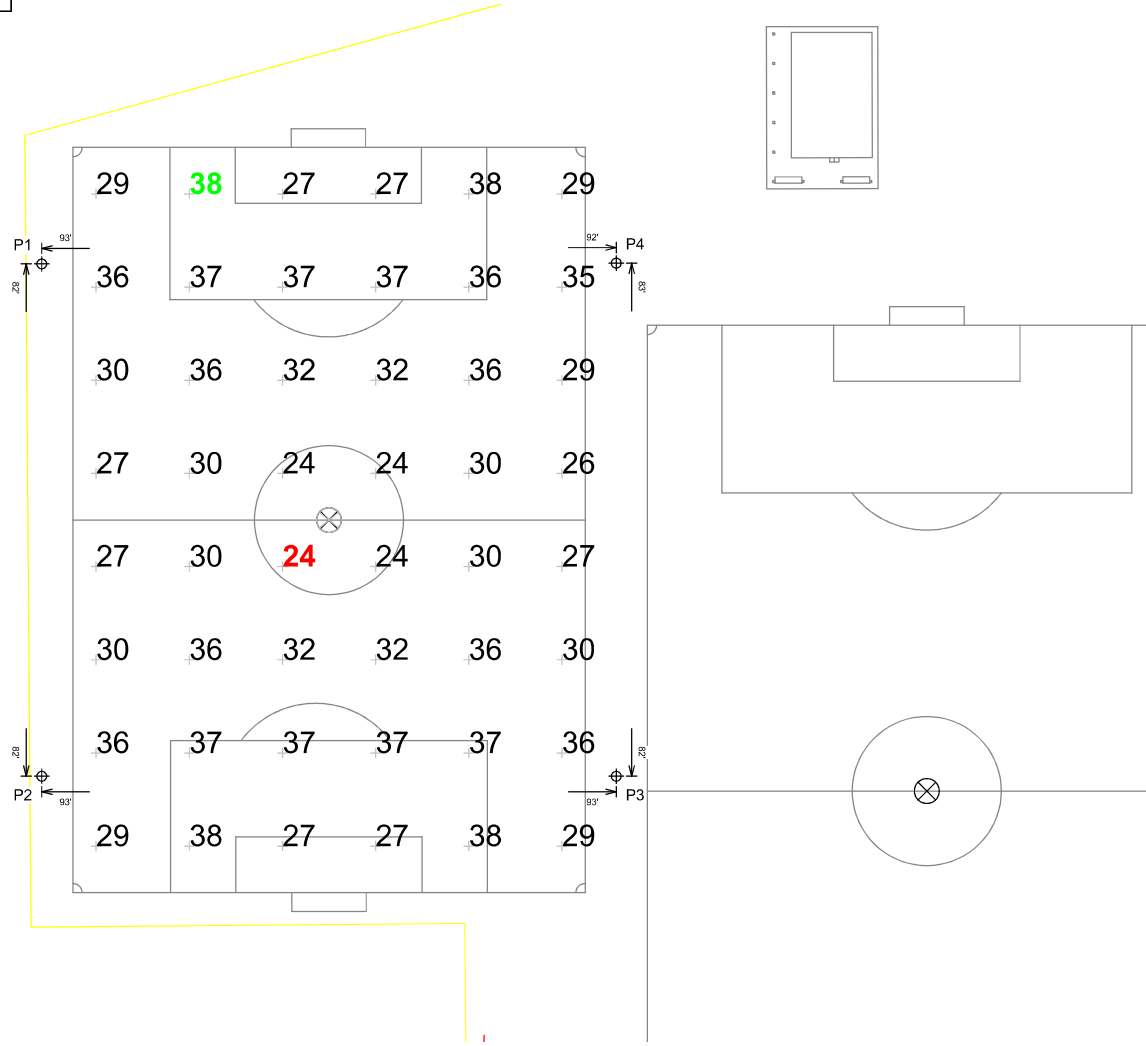
EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
3	P1-P3	60'	-	60'	TLC-LED-1200	2	2
				60'	TLC-LED-1500	1	1
1	P4	70'	-	70'	TLC-LED-900	1	0
				60'	TLC-LED-1500	1	1
				60'	TLC-LED-1200	2	2
				70'	TLC-LED-1200	3	0
TOTALS						16	12

### Jet Drive Athletic Complex

Fort Walton Beach, FL

GRID SUMMARY	
Name:	Field 1
Size:	240' x 165'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOT CANDLES	
	Entire Grid
Guaranteed Average:	30
Scan Average:	31.77
Maximum:	38.2
Minimum:	23.5
Avg / Min:	1.35
Guaranteed Max / Min:	2.5
Max / Min:	1.63
UG (adjacent pts):	1.42
CU:	0.74
No. of Points:	48
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	12
Total Load:	15.0 kW

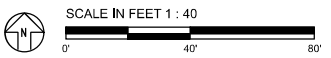


**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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

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

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



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



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### ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID OTHER GRIDS
1	P4	70'	-	70'	TLC-LED-900	1	1 0
				60'	TLC-LED-1500	1	0 1
				60'	TLC-LED-1200	2	0 2
				70'	TLC-LED-1200	3	3 0
1	P5	70'	-	70'	TLC-LED-900	1	1 0
				70'	TLC-LED-1200	3	3 0
2	P6-P7	70'	-	70'	TLC-LED-900	2	1 1
				70'	TLC-LED-1200	6	3 3
TOTALS						27	16 11

### Jet Drive Athletic Complex

Fort Walton Beach, FL

GRID SUMMARY	
Name:	Field 2
Size:	300' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

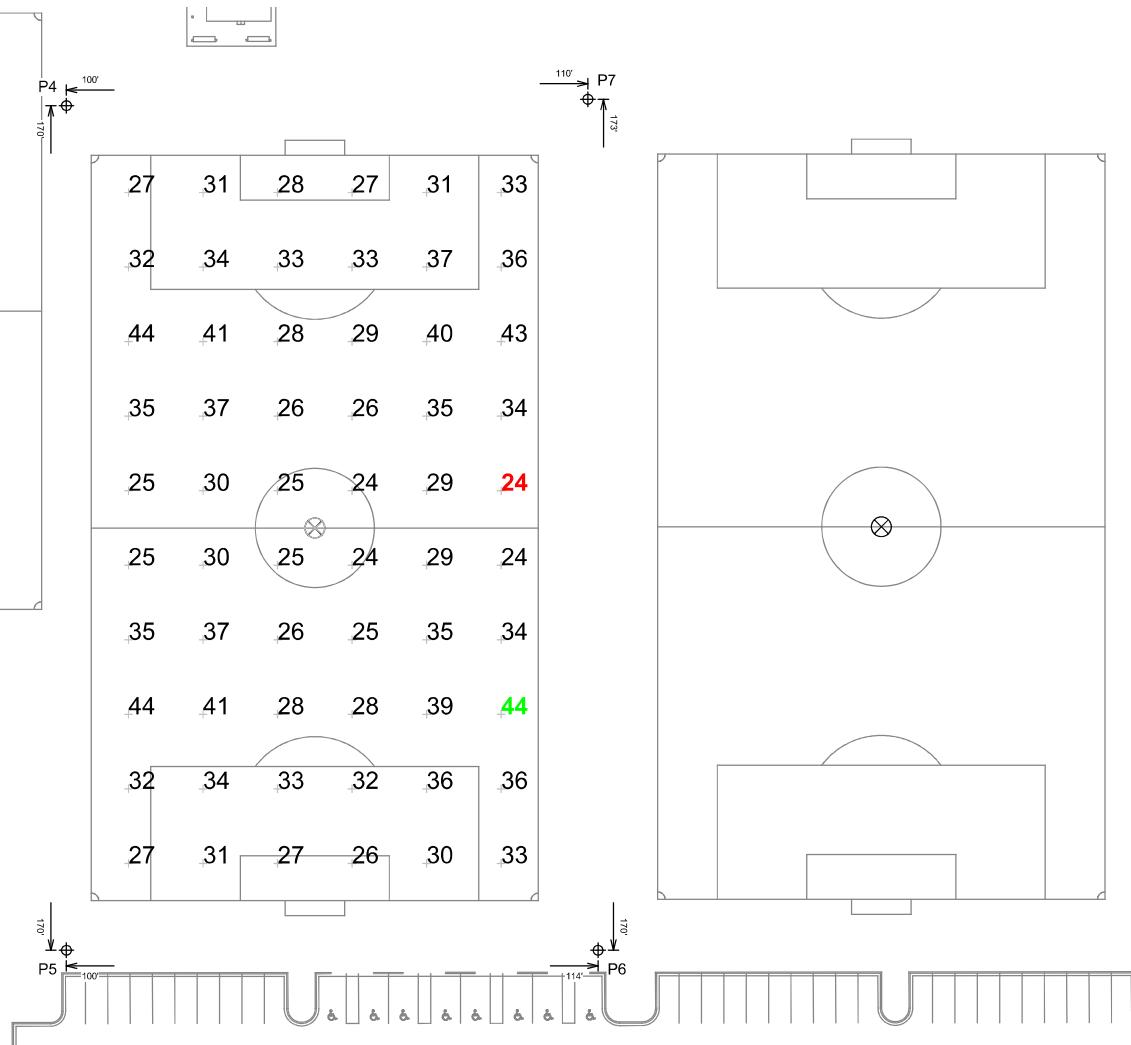
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	31.81
Maximum:	44.2
Minimum:	24.2
Avg / Min:	1.31
Guaranteed Max / Min:	2.5
Max / Min:	1.83
UG (adjacent pts):	1.44
CU:	0.76
No. of Points:	60
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	16
Total Load:	17.56 kW

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

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



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### ILLUMINATION SUMMARY

**Jet Drive Athletic Complex**  
Fort Walton Beach, FL

EQUIPMENT LIST FOR AREAS SHOWN								
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires			
					LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P6-P7	70'	-	70'	TLC-LED-900	2	1	1
					TLC-LED-1200	6	3	3
2	P8-P9	70'	-	70'	TLC-LED-900	1	1	0
					TLC-LED-1200	3	3	0
TOTALS						24	16	8

GRID SUMMARY	
Name:	Field 3
Size:	300' x 180'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOT CANDLES	
	Entire Grid
Guaranteed Average:	30
Scan Average:	31.35
Maximum:	44.1
Minimum:	23.8
Avg / Min:	1.32
Guaranteed Max / Min:	2.5
Max / Min:	1.85
UG (adjacent pts):	1.46
CU:	0.75
No. of Points:	60

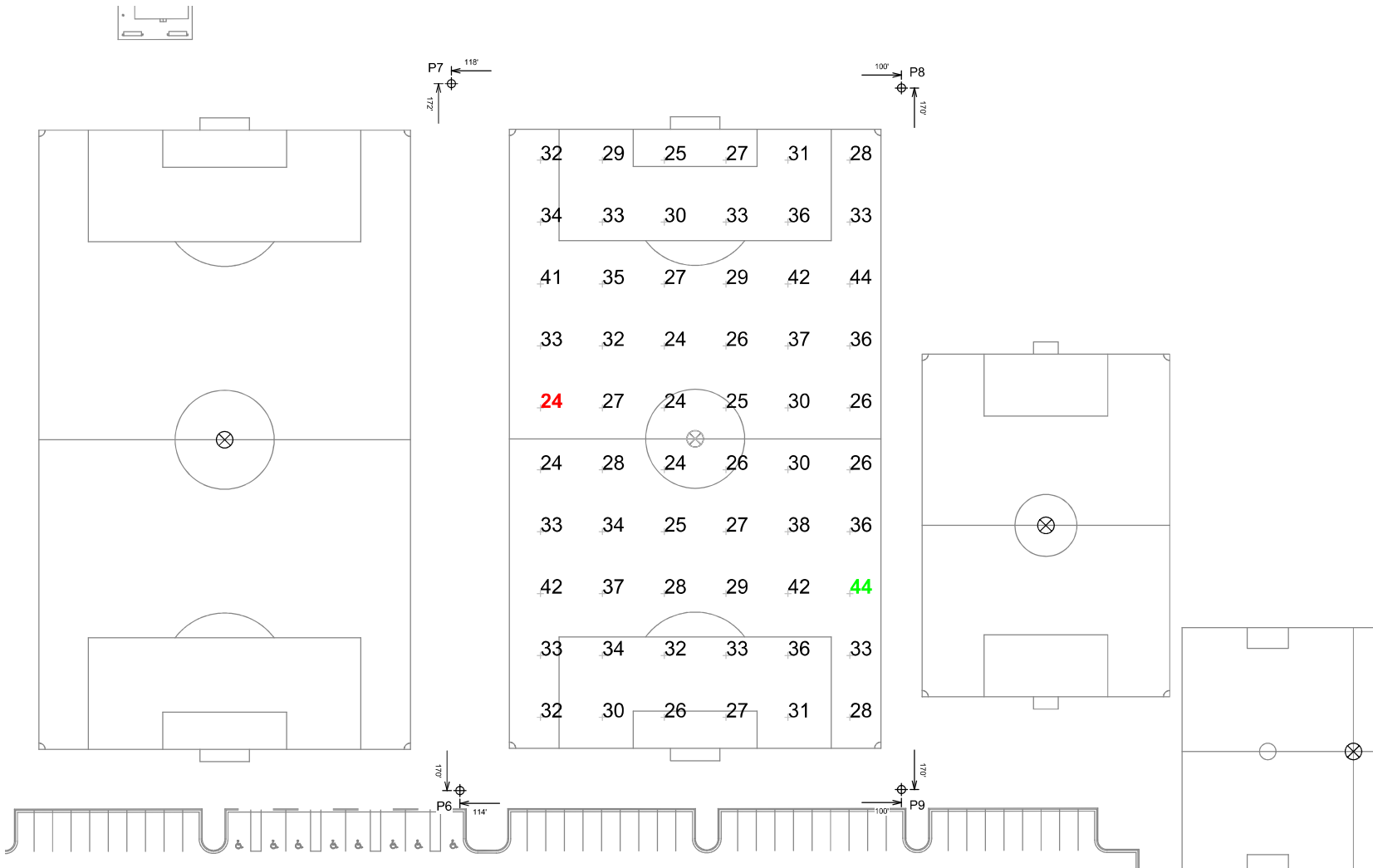
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	16
Total Load:	17.56 kW

**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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SCALE IN FEET 1 : 50  
0' 50' 100'  
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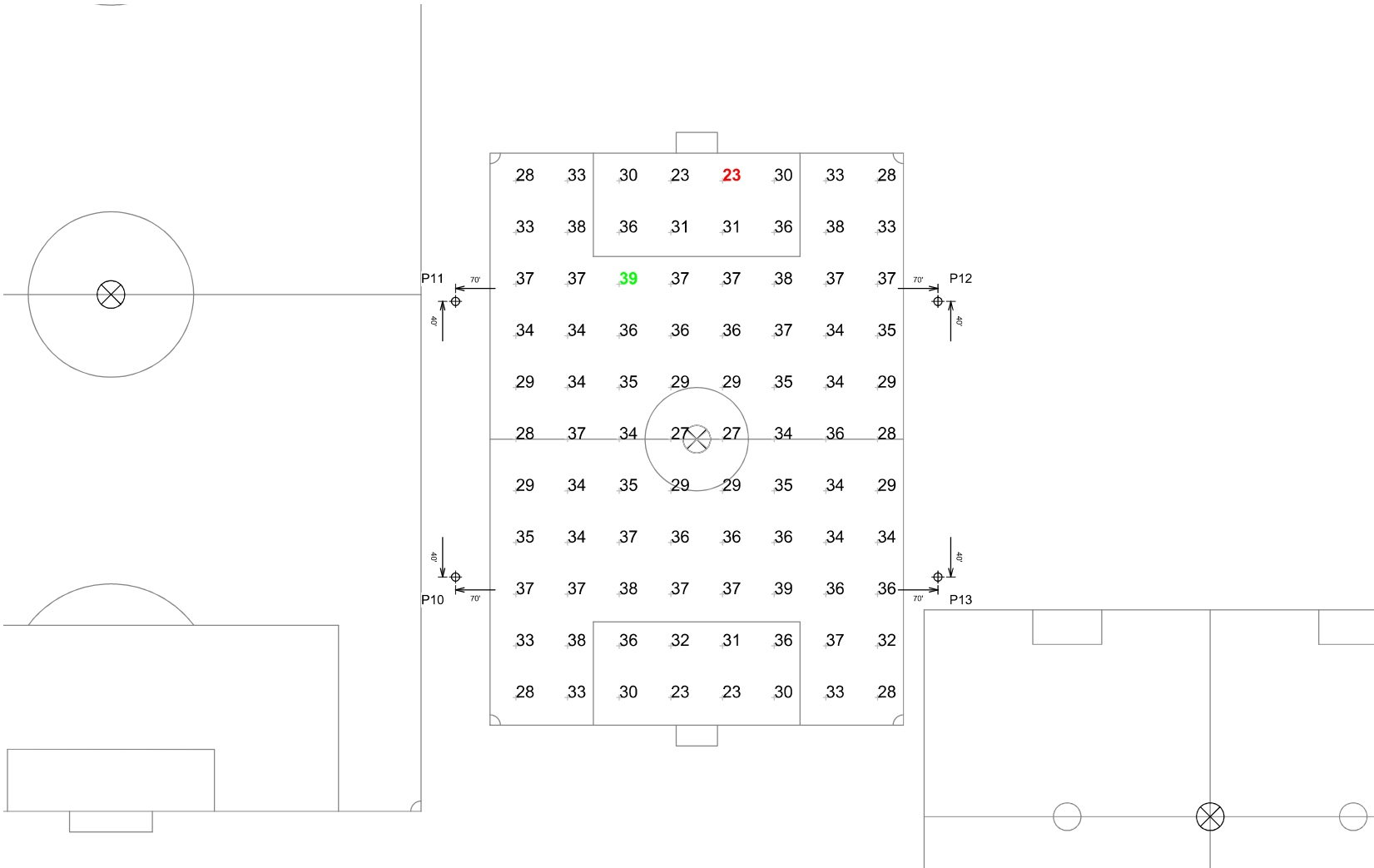
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**ILLUMINATION SUMMARY**

**Jet Drive Athletic Complex**  
Fort Walton Beach, FL

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
3	P10-P12	50'	-	50'	TLC-LED-550	4	4	0	
1	P13	50'	-	50'	TLC-LED-550	4/3*	4	3	
TOTALS						19	16	3	

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



GRID SUMMARY	
Name:	Field 4
Size:	166' x 120'
Spacing:	15.0' x 15.0'
Height:	3.0' above grade

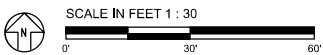
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	33.28
Maximum:	38.9
Minimum:	23.1
Avg / Min:	1.44
Guaranteed Max / Min:	2.5
Max / Min:	1.68
UG (adjacent pts):	1.36
CU:	0.66
No. of Points:	88
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	16
Total Load:	8.64 kW

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

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



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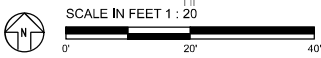
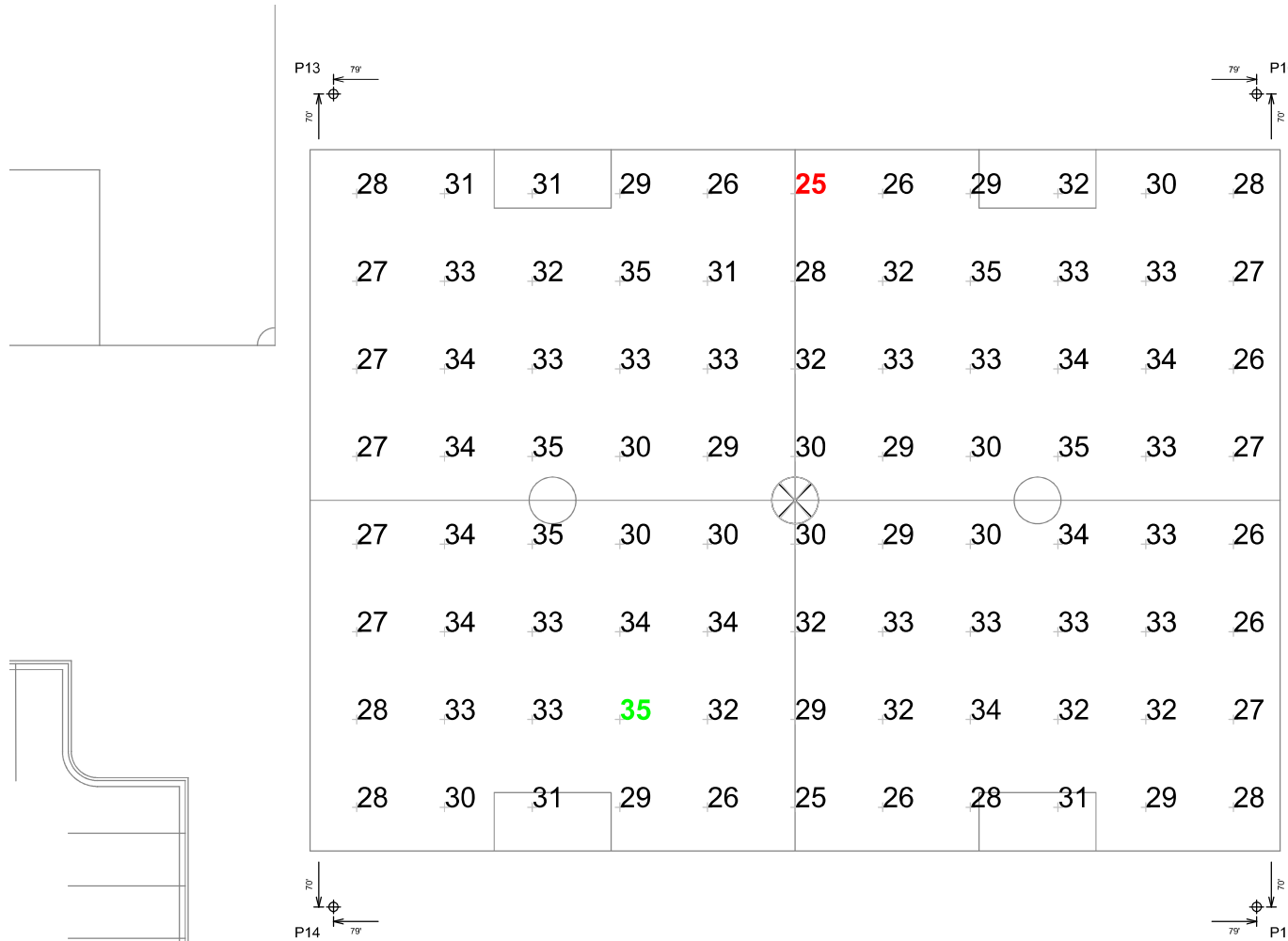
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**ILLUMINATION SUMMARY**

EQUIPMENT LIST FOR AREAS SHOWN									
Pole			Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
1	P13	50'	-	50'	TLC-LED-550	4/2*	3	4	
3	P14-P16	50'	-	50'	TLC-LED-550	3	3	0	
TOTALS						16	12	4	

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



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### Jet Drive Athletic Complex

Fort Walton Beach, FL

GRID SUMMARY	
Name:	Field 5
Size:	166' x 120'
Spacing:	15.0' x 15.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	30
Scan Average:	30.64
Maximum:	35.2
Minimum:	24.6
Avg / Min:	1.24
Guaranteed Max / Min:	2.5
Max / Min:	1.43
UG (adjacent pts):	1.30
CU:	0.74
No. of Points:	88
LUMINAIRE INFORMATION	
Applied Circuits:	E
No. of Luminaires:	12
Total Load:	6.48 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.

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### ILLUMINATION SUMMARY

**Jet Drive Athletic Complex**  
Fort Walton Beach, FL

GRID SUMMARY	
Name:	Spill - 150' Offset
Spacing:	30.0'
Height:	3.0' above grade

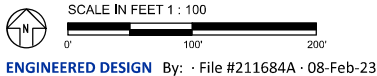
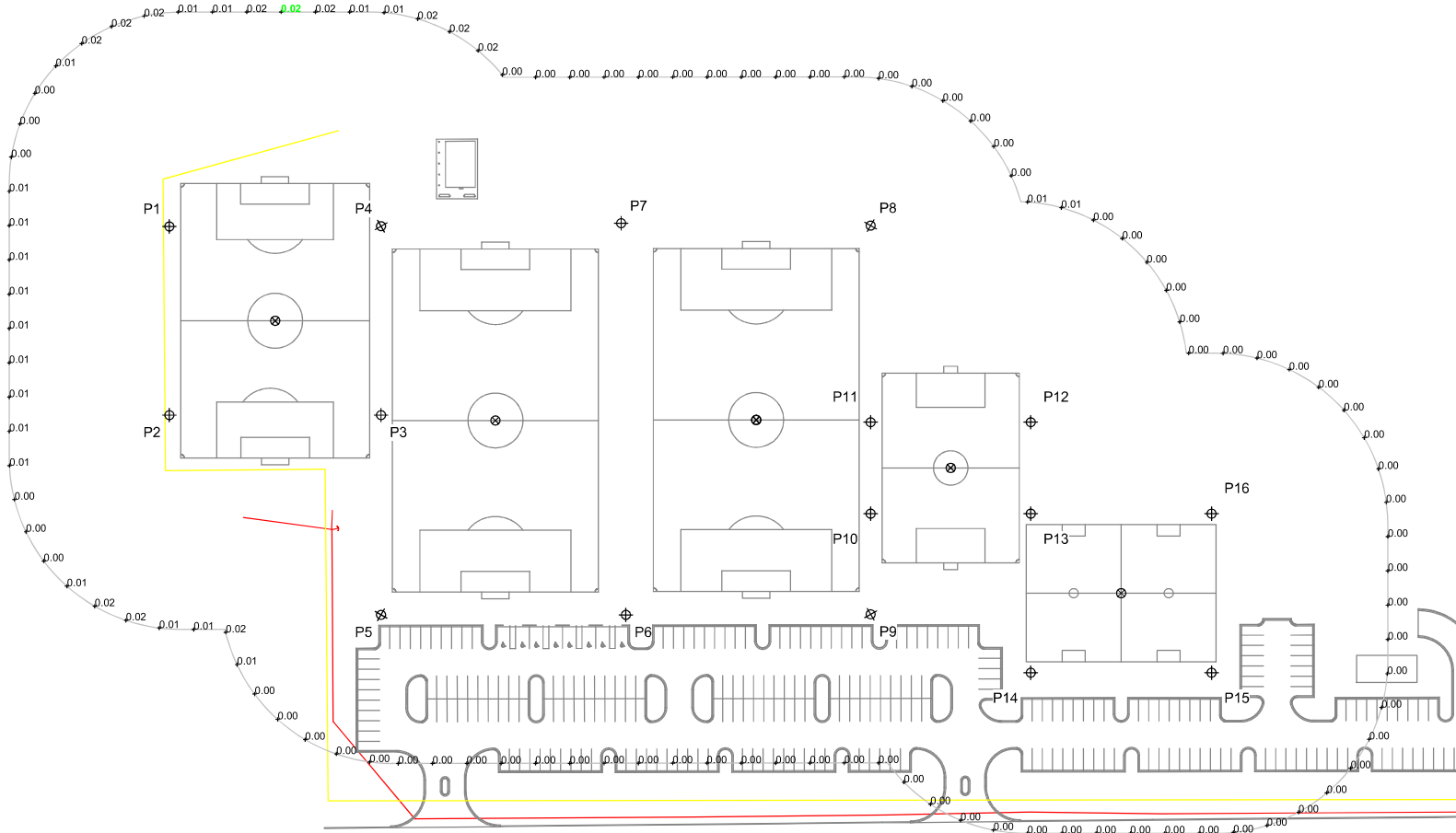
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
	Entire Grid
Scan Average:	0.0043
Maximum:	0.024
Minimum:	0.000
No. of Points:	111
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E
No. of Luminaires:	72
Total Load:	65.24 kW

**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.

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**ILLUMINATION SUMMARY**

**Jet Drive Athletic Complex**  
Fort Walton Beach, FL

GRID SUMMARY	
Name:	Spill - 150' Offset
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
	Entire Grid
Scan Average:	0.0157
Maximum:	0.082
Minimum:	0.000
No. of Points:	111

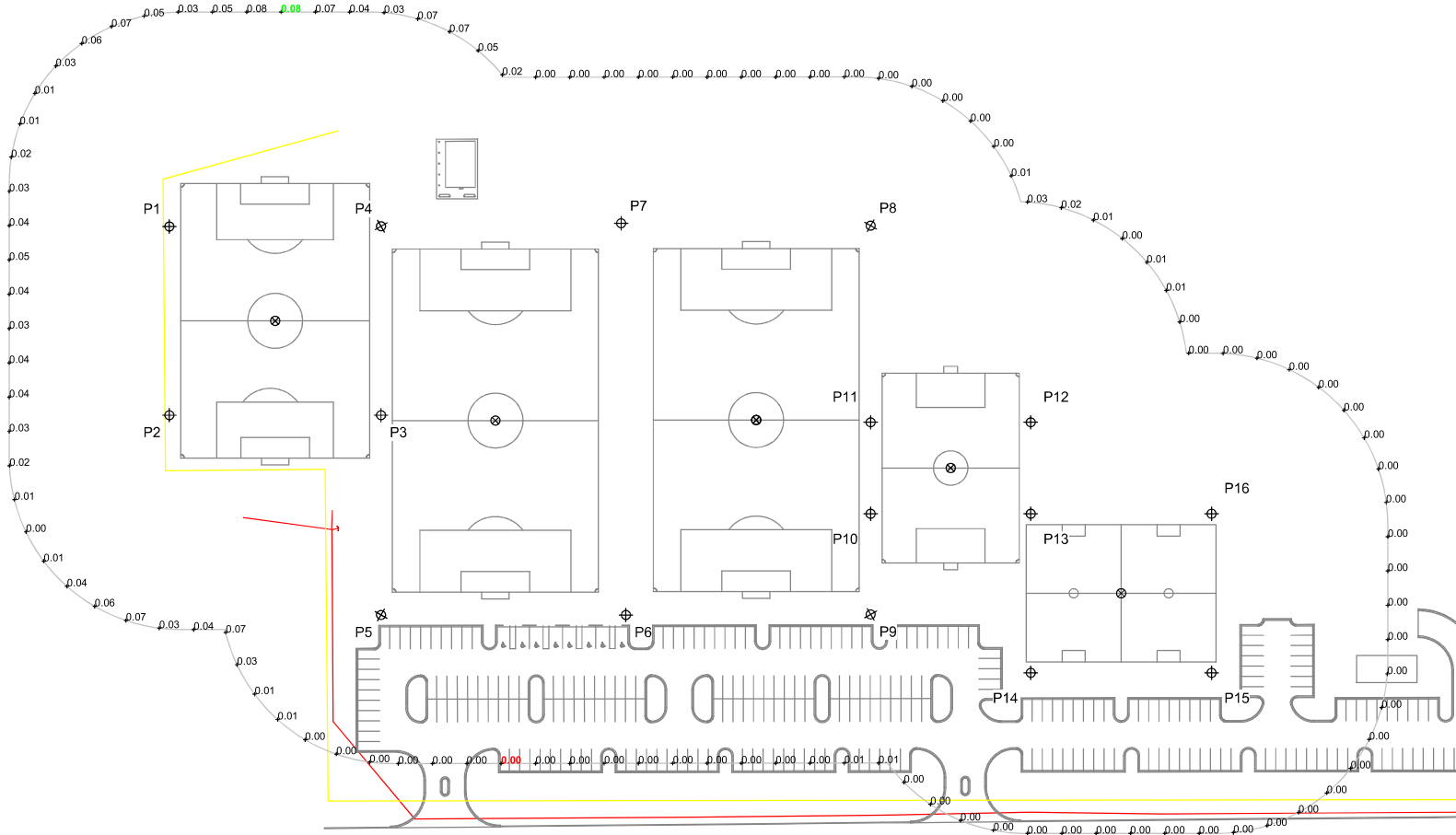
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E
No. of Luminaires:	72
Total Load:	65.24 kW

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SCALE IN FEET 1 : 100  
0' 100' 200'  
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**ILLUMINATION SUMMARY**



### Jet Drive Athletic Complex Fort Walton Beach, FL

GRID SUMMARY	
Name:	Glare (Cd) - 150' Offset
Spacing:	30.0'
Height:	5.0' above grade

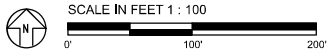
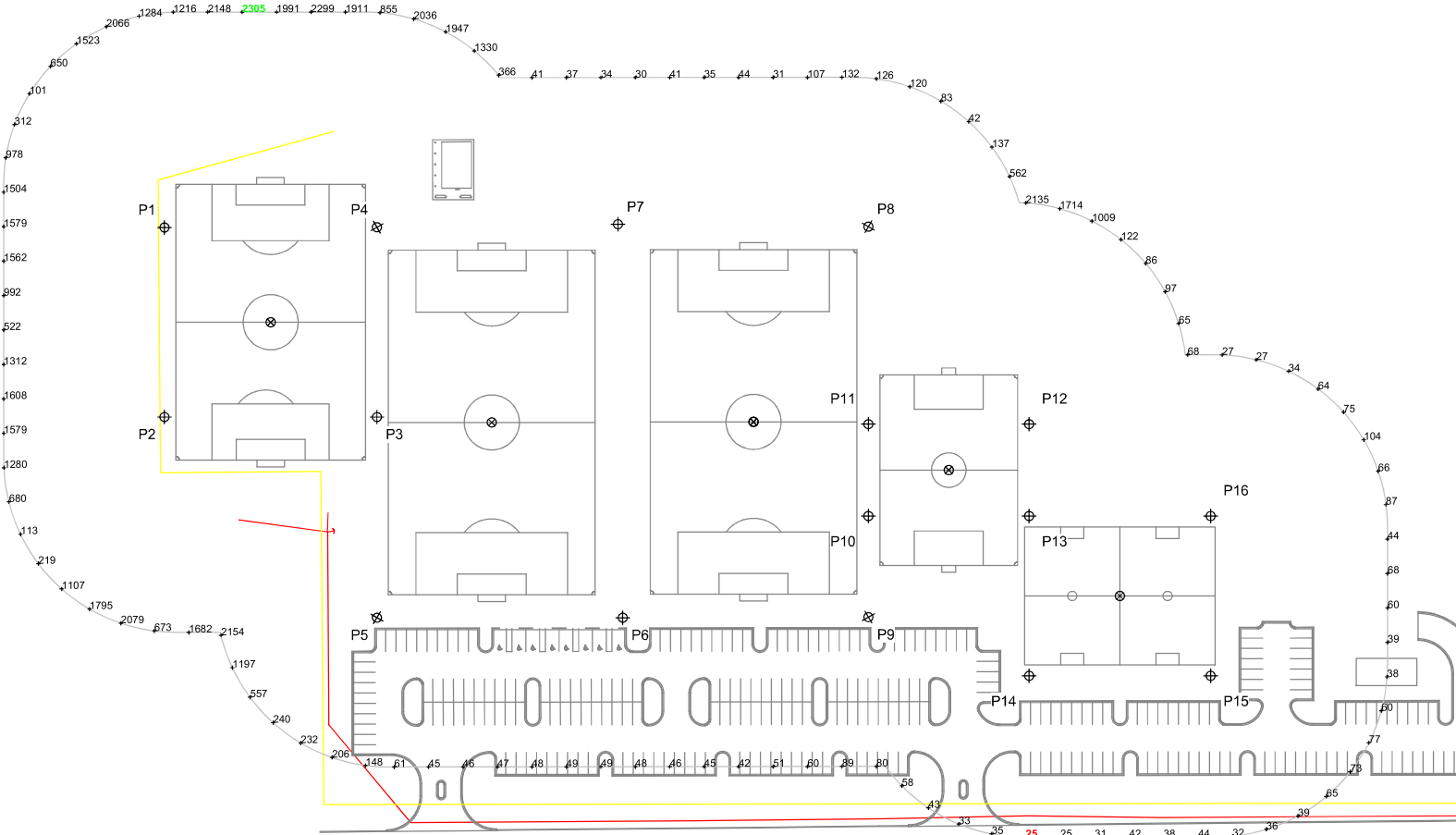
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 536.2661
Maximum:	2305.252
Minimum:	24.584
No. of Points:	111
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E
No. of Luminaires:	72
Total Load:	65.24 kW

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### ILLUMINATION SUMMARY

### Jet Drive Athletic Complex Fort Walton Beach, FL

#### EQUIPMENT LAYOUT

##### INCLUDES:

- Field 1
- Field 2
- Field 3
- Field 4
- Field 5

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

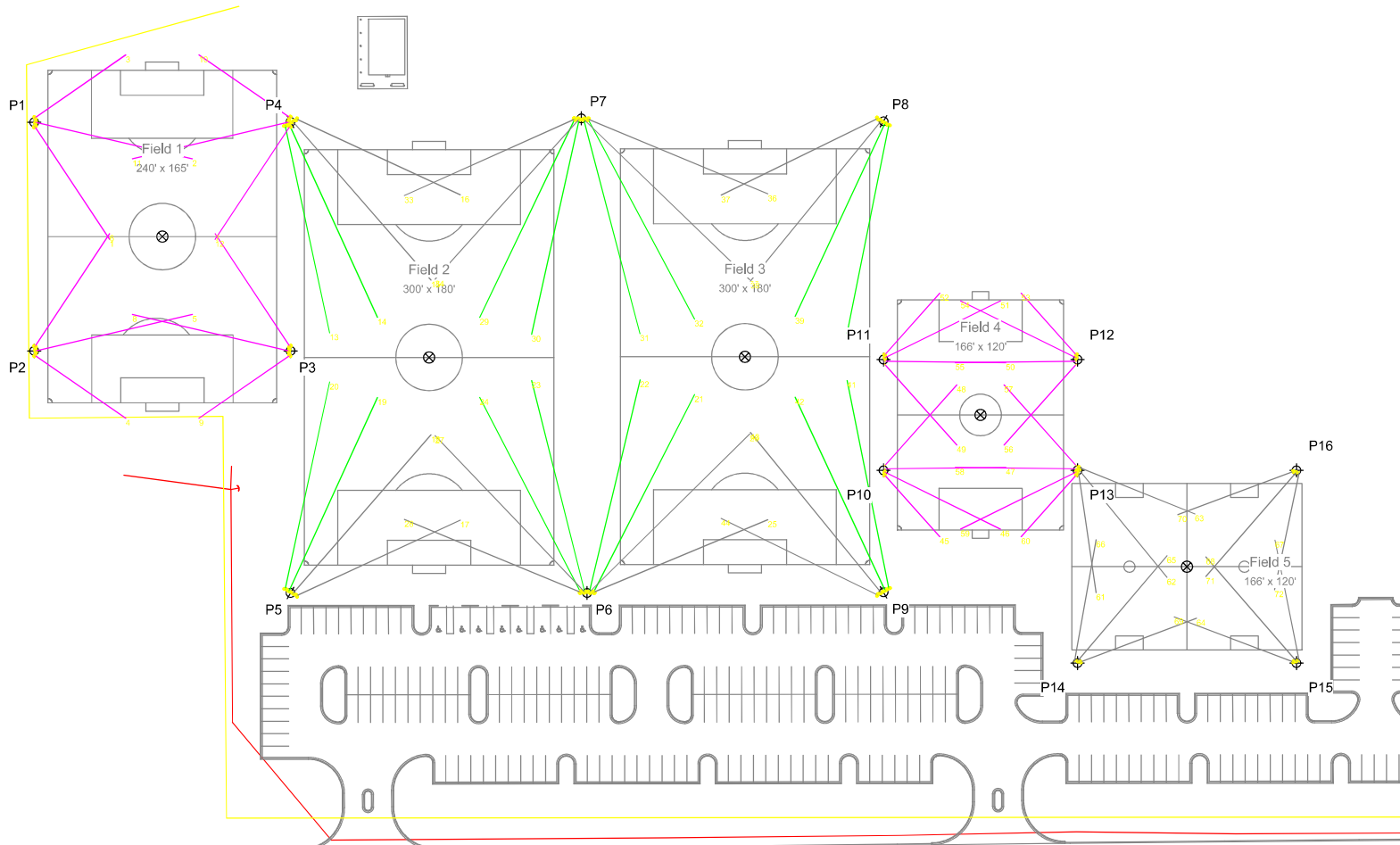
#### EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	CLASS	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE		QTY/ POLE	
					TYPE			
3	P1-P3	LSS60B	-	60'	TLC-LED-1200		2	
				60'	TLC-LED-1500		1	
1	P4	LSS70D	-	70'	TLC-LED-900		1	
				60'	TLC-LED-1500		1	
				60'	TLC-LED-1200		2	
				70'	TLC-LED-1200		3	
3	P5, P8-P9	LSS70D	-	70'	TLC-LED-900		1	
				70'	TLC-LED-1200		3	
2	P6-P7	LSS70D	-	70'	TLC-LED-900		2	
				70'	TLC-LED-1200		6	
3	P10-P12	LSS50B	-	50'	TLC-LED-550		4	
1	P13	LSS50D	-	50'	TLC-LED-550		4/3*	
3	P14-P16	LSS50B	-	50'	TLC-LED-550		3	
16	TOTALS							72

\* 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)
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	-
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9



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#### EQUIPMENT LAYOUT