

Bobby Bailey Tennis Center

Flowery Branch, GA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
A1-A2	60'	60'	3	TLC-LED-550	1.62 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
A3-A4	60'	60'	3	TLC-LED-550	1.62 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
B1-B2	70'	70'	4	TLC-LED-900	3.52 kW	A
		16'	1	TLC-BT-575	0.58 kW	A
B3-B4	70'	70'	4	TLC-LED-900	3.52 kW	B
		16'	1	TLC-BT-575	0.58 kW	B
P1-P4	50'	50'	1	TLC-LED-550	0.54 kW	C
		50'	2	TLC-LED-900	1.78 kW	C
12			48		34.44 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Field 4	12.58 kW	18
B	Field 5	12.58 kW	18
C	Pickleball	9.28 kW	12

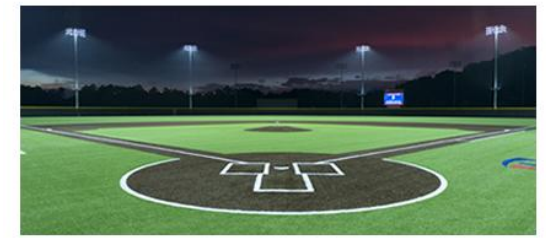
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	890W	89,600	>120,000	>120,000	>120,000	8
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	16
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	16
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8

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-900	5.3	5.0	4.6	4.0	3.2	2.9	2.3
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Field 4 Spill/Glare - 150'	Horizontal Illuminance	0	0	0.01	0.00		A	18
Field 4 Spill/Glare - 150'	Max Candela Metric	1316	25.8	6224	241.18	51.01	A	18
Field 4 Spill/Glare - 150'	Max Vertical Illuminance Metric	0.01	0	0.05	228.89		A	18
Field 4 (Infield)	Horizontal Illuminance	33.6	22.7	42.2	1.86	1.48	A	18
Field 4 (Outfield)	Horizontal Illuminance	22.5	16.4	30.4	1.86	1.37	A	18
Field 5 Spill/Glare - 150'	Horizontal Illuminance	0	0	0.01	0.00		B	18
Field 5 Spill/Glare - 150'	Max Candela Metric	1206	19.1	6224	326.46	63.26	B	18
Field 5 Spill/Glare - 150'	Max Vertical Illuminance Metric	0.01	0	0.05	305.45		B	18
Field 5 (Infield)	Horizontal Illuminance	33.5	22.7	42.2	1.86	1.48	B	18
Field 5 (Outfield)	Horizontal Illuminance	22.6	16.4	30.6	1.86	1.38	B	18
Pickleball Spill/Glare - 150'	Horizontal Illuminance	0	0	0	0.00		C	12
Pickleball Spill/Glare - 150'	Max Candela Metric	163	17.1	939	54.80	9.48	C	12
Pickleball Spill/Glare - 150'	Max Vertical Illuminance Metric	0	0	0.01	43.85		C	12
Pickleball	Horizontal Illuminance	31.6	20.2	46	2.28	1.57	C	12

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	
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0	
				60'	TLC-LED-550	3	3	0	
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0	
				70'	TLC-LED-900	4	4	0	
4	TOTALS						18	18	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Field 4
Size:	200'/200'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	30	20
Scan Average:	33.55	22.48
Maximum:	42.2	30.4
Minimum:	22.7	16.4
Avg / Min:	1.48	1.37
Guaranteed Max / Min:	2.5	3
Max / Min:	1.86	1.86
UG (adjacent pts):	1.28	1.55
CU:	0.67	
No. of Points:	25	71
LUMINAIRE INFORMATION		
Applied Circuits:	A	
No. of Luminaires:	18	
Total Load:	12.58 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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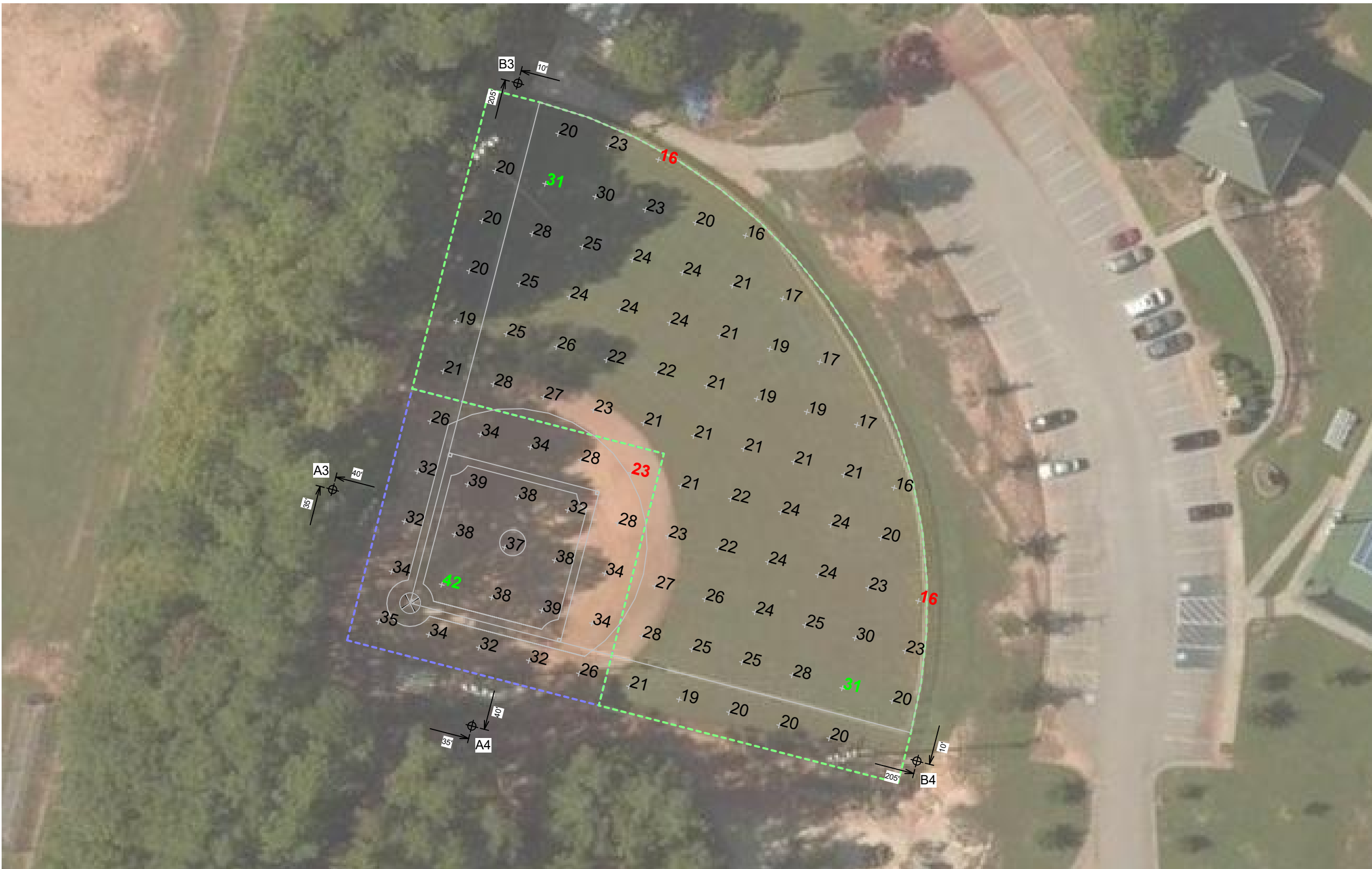
EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Field 5
Size:	200'/200'/200' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY		
MAINTAINED HORIZONTAL FOOTCANDLES		
	Infield	Outfield
Guaranteed Average:	30	20
Scan Average:	33.54	22.56
Maximum:	42.2	30.6
Minimum:	22.7	16.4
Avg / Min:	1.48	1.38
Guaranteed Max / Min:	2.5	3
Max / Min:	1.86	1.86
UG (adjacent pts):	1.28	1.54
CU:	0.67	
No. of Points:	25	71
LUMINAIRE INFORMATION		
Applied Circuits:	B	
No. of Luminaires:	18	
Total Load:	12.58 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.

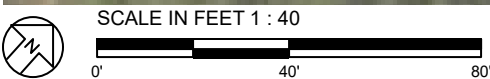
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	P1-P4	50'	-	50'	TLC-LED-550	1	1	0
				50'	TLC-LED-900	2	2	0
4	TOTALS					12	12	0

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Flowery Branch, GA

GRID SUMMARY	
Name:	Pickleball
Size:	120' x 200'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

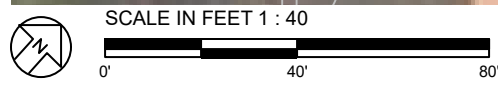
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	30
Scan Average:	31.63
Maximum:	46.0
Minimum:	20.2
Avg / Min:	1.57
Guaranteed Max / Min:	2.5
Max / Min:	2.28
UG (adjacent pts):	1.28
CU:	0.73
No. of Points:	240
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	12
Total Load:	9.28 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) \oplus dimensions are relative to 0,0 reference point(s) \otimes



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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	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Field 4 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

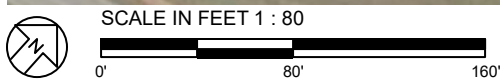
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0025
Maximum:	0.008
Minimum:	0.000
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	18
Total Load:	12.58 kW

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

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Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

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Flowery Branch, GA

GRID SUMMARY	
Name:	Field 4 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0116
Maximum:	0.045
Minimum:	0.000
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	18
Total Load:	12.58 kW



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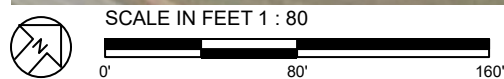
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ILLUMINATION SUMMARY



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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	A1-A2	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B1-B2	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

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Flowery Branch, GA

GRID SUMMARY	
Name:	Field 4 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

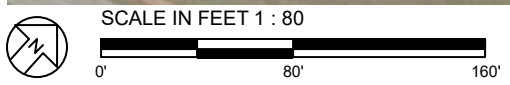
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1316.3743
Maximum:	6223.881
Minimum:	25.806
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	18
Total Load:	12.58 kW

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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	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Field 5 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

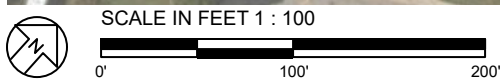
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0023
Maximum:	0.008
Minimum:	0.000
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	18
Total Load:	12.58 kW

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Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

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GRID SUMMARY	
Name:	Field 5 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

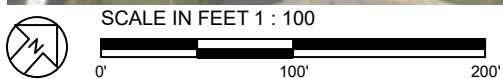
ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0105
Maximum:	0.045
Minimum:	0.000
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	18
Total Load:	12.58 kW

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Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	A3-A4	60'	-	15.5'	TLC-BT-575	1	1	0
				60'	TLC-LED-550	3	3	0
2	B3-B4	70'	-	15.5'	TLC-BT-575	1	1	0
				70'	TLC-LED-900	4	4	0
4	TOTALS					18	18	0

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GRID SUMMARY	
Name:	Field 5 Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

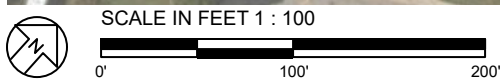
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 1206.0612
Maximum:	6223.865
Minimum:	19.065
No. of Points:	56
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	18
Total Load:	12.58 kW

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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
4	P1-P4	50'	-	50'	TLC-LED-550	1	1	0
				50'	TLC-LED-900	2	2	0
4	TOTALS					12	12	0

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Flowery Branch, GA

GRID SUMMARY	
Name:	Pickleball Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

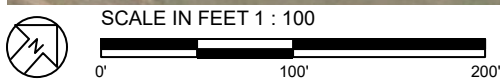
ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0003
Maximum:	0.002
Minimum:	0.000
No. of Points:	53
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	12
Total Load:	9.28 kW

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

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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.



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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
4	P1-P4	50'	-	50'	TLC-LED-550	1	1	0
				50'	TLC-LED-900	2	2	0
4	TOTALS					12	12	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Pickleball Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0021
Maximum:	0.011
Minimum:	0.000
No. of Points:	53
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	12
Total Load:	9.28 kW

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

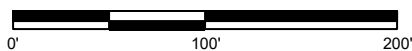
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

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



SCALE IN FEET 1 : 100



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
4	P1-P4	50'	-	50'	TLC-LED-550	1	1	0
				50'	TLC-LED-900	2	2	0
4	TOTALS					12	12	0

Bobby Bailey Tennis Center

Flowery Branch, GA

GRID SUMMARY	
Name:	Pickleball Spill/Glare - 150'
Spacing:	30.0'
Height:	3.0' above grade

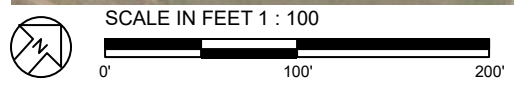
ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 162.5051
Maximum:	939.424
Minimum:	17.141
No. of Points:	53
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	12
Total Load:	9.28 kW

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

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

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

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



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



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Bobby Bailey Tennis Center

Flowery Branch, GA

EQUIPMENT LAYOUT

INCLUDES:

- Field 4
- Field 5
- Pickleball

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

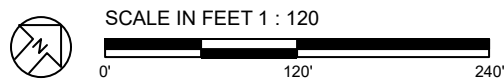
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		QTY / POLE
		CLASS	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	
4	A1-A4	LSS60AA	-	15.5' 60'	TLC-BT-575 TLC-LED-550	1 3
4	B1-B4	LSS70AA	-	15.5' 70'	TLC-BT-575 TLC-LED-900	1 4
4	P1-P4	LSS50AB	-	50'	TLC-LED-550 TLC-LED-900	1 2
12	TOTALS					48

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-900	5.3	5.0	4.6	4.0	3.2	2.3
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.4
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.5



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



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