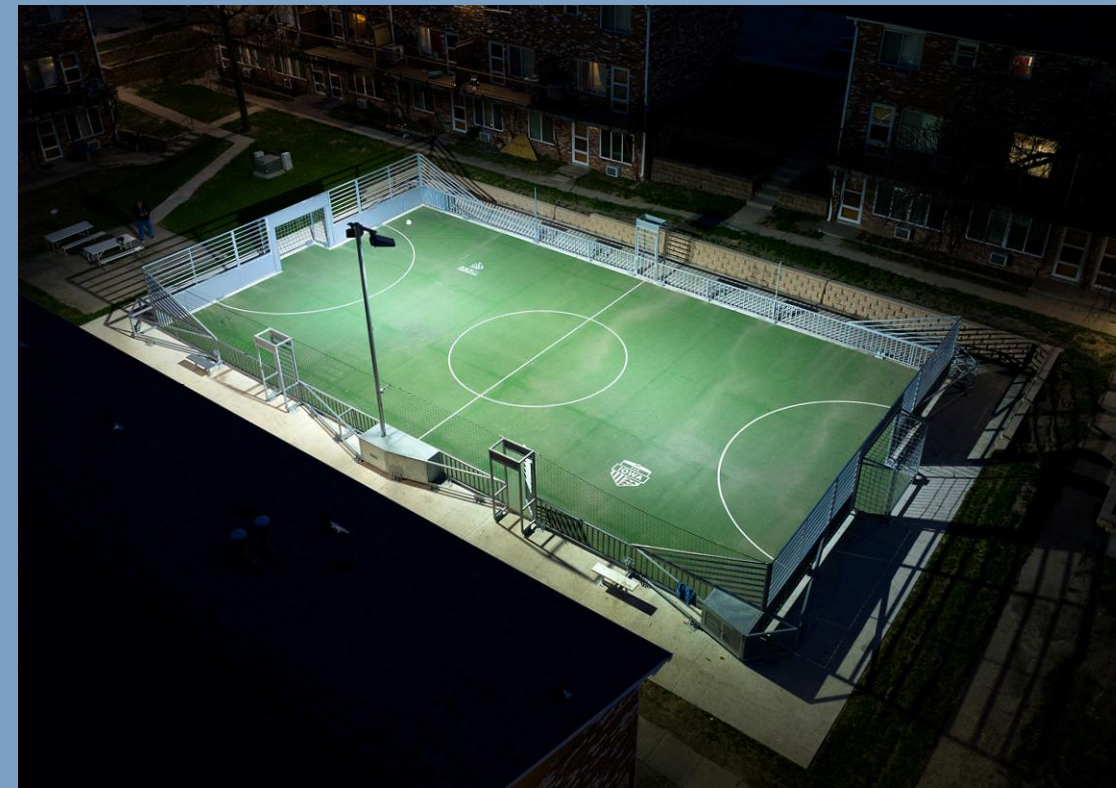
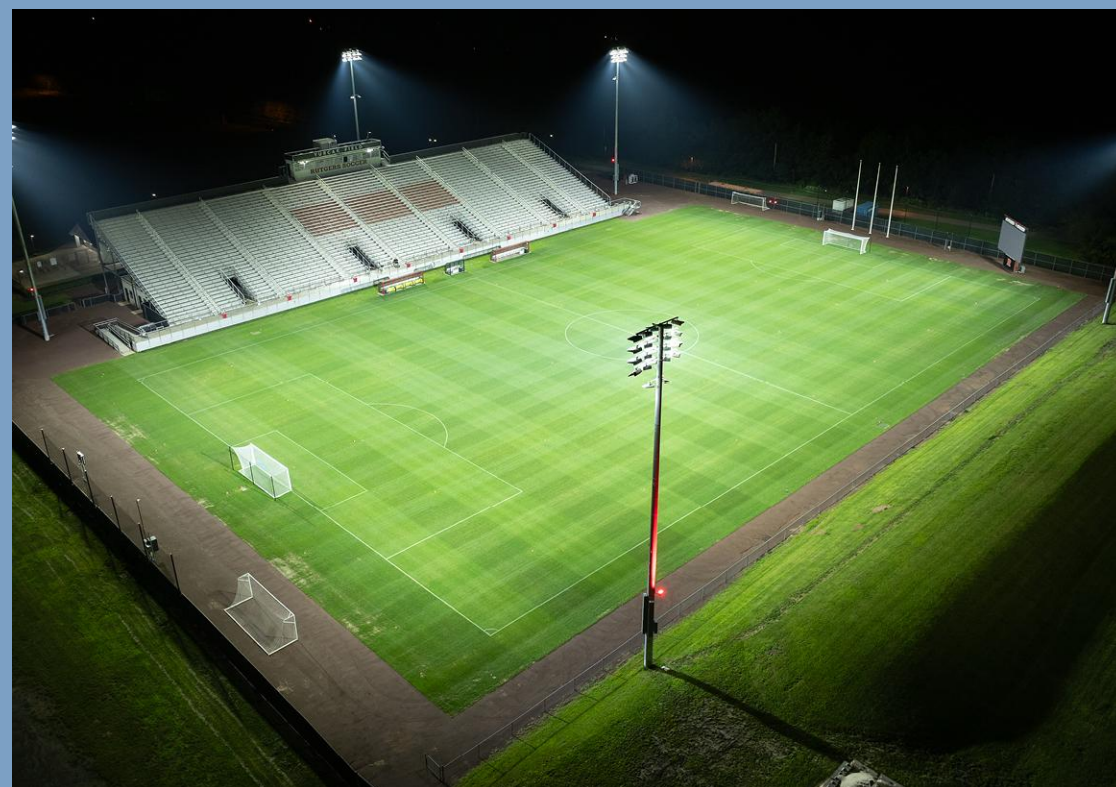




Byron Center Middle School, Byron Center, Michigan, USA



Oakridge Apartments Mini-Pitch, Des Moines, Iowa, USA



Rutgers University Yurcak Field, Piscataway, New Jersey, USA



Sports Illustrated Stadium, Harrison, New Jersey, USA

Greenhills Park GAA

Dublin, Leinster



Sales Representative: N.McSherry · Designed By: C.McDole · Design No.: 247949A · September 10, 2025

LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Design Load	Circuit
M1	21.3 m	21.3 m	5	TLC-LED-1500	6.98 kW	A
M2	21.3 m	21.3 m	2	TLC-LED-1500	2.79 kW	A
		21.3 m	3	TLC-LED-1500	4.19 kW	B
M3-M4	21.3 m	21.3 m	5	TLC-LED-1500	6.98 kW	B
M5	21.3 m	21.3 m	2	TLC-LED-1500	2.79 kW	B
		21.3 m	3	TLC-LED-1500	4.19 kW	A
M6	21.3 m	21.3 m	5	TLC-LED-1500	6.98 kW	A
			30		41.91 kW	

*Fixtures in this design have dimmed output values to meet design specific needs.

Circuit Summary			
Circuit	Description	Design Load	Fixture Qty
A	Soccer 1	20.95 kW	15
B	Soccer 2	20.95 kW	15

Fixture Type Summary								
Type	Circuit	Source	Avg. Wattage	Avg. Lumens	L90	L80	L70	Quantity
TLC-LED-1500	A	LED 5700K - 75 CRI	1397W	190,141	>120,000	>120,000	>120,000	15
TLC-LED-1500	B	LED 5700K - 75 CRI	1397W	190,141	>120,000	>120,000	>120,000	15

Single Fixture Amperage Draw Chart								
Driver Specifications (.90 min power factor)		Line Amperage Per Fixture (max draw)						
Single Phase Voltage		208	220	240	277	347	380	480
		(60)	(60)	(60)	(60)	(60)	(60)	(60)
TLC-LED-1500		8.4	7.9	7.3	6.3	5.0	4.6	3.6

*Amp draw based on 100% fixture output, consult design specific datasheet for adjusted amperage draw chart

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
GAA	Horizontal Illuminance	369.83	262	566	0.46	0.71	A,B	30
Grid	Max Vertical Illuminance Metric	1.67	0	7	0.00	0.00	A,B	30
LTW	Horizontal	0.34	0	2	0.00	0.00	A,B	30
LTW	Max Vertical Illuminance Metric	1.67	0	7	0.00	0.00	A,B	30
Soccer 1	Horizontal Illuminance	344.58	208	492	0.42	0.60	A	15
Soccer 2	Horizontal Illuminance	344.36	207	491	0.42	0.60	B	15
Spill	Horizontal	95.36	0	588	0.00	0.00	A,B	30
Spill	Max Vert Illuminance (by Light Bank)	137.33	0	810	0.00	0.00	A,B	30

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

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

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									
Structure				Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS	
6	M1-M6	21.34m	-	21.34m	TLC-LED-1500	5	5	0	
6	Totals					30	30	0	

Above Field Level is height of fixtures above area shown

Greenhills Park GAA

Dublin, Leinster

Grid Summary

Name: GAA
Size: 135.0m x 90.0m
Spacing: 10.0m x 10.6m
Height: 1.0m above grade

Illumination Summary

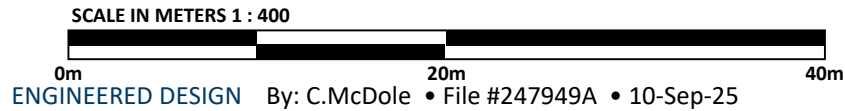
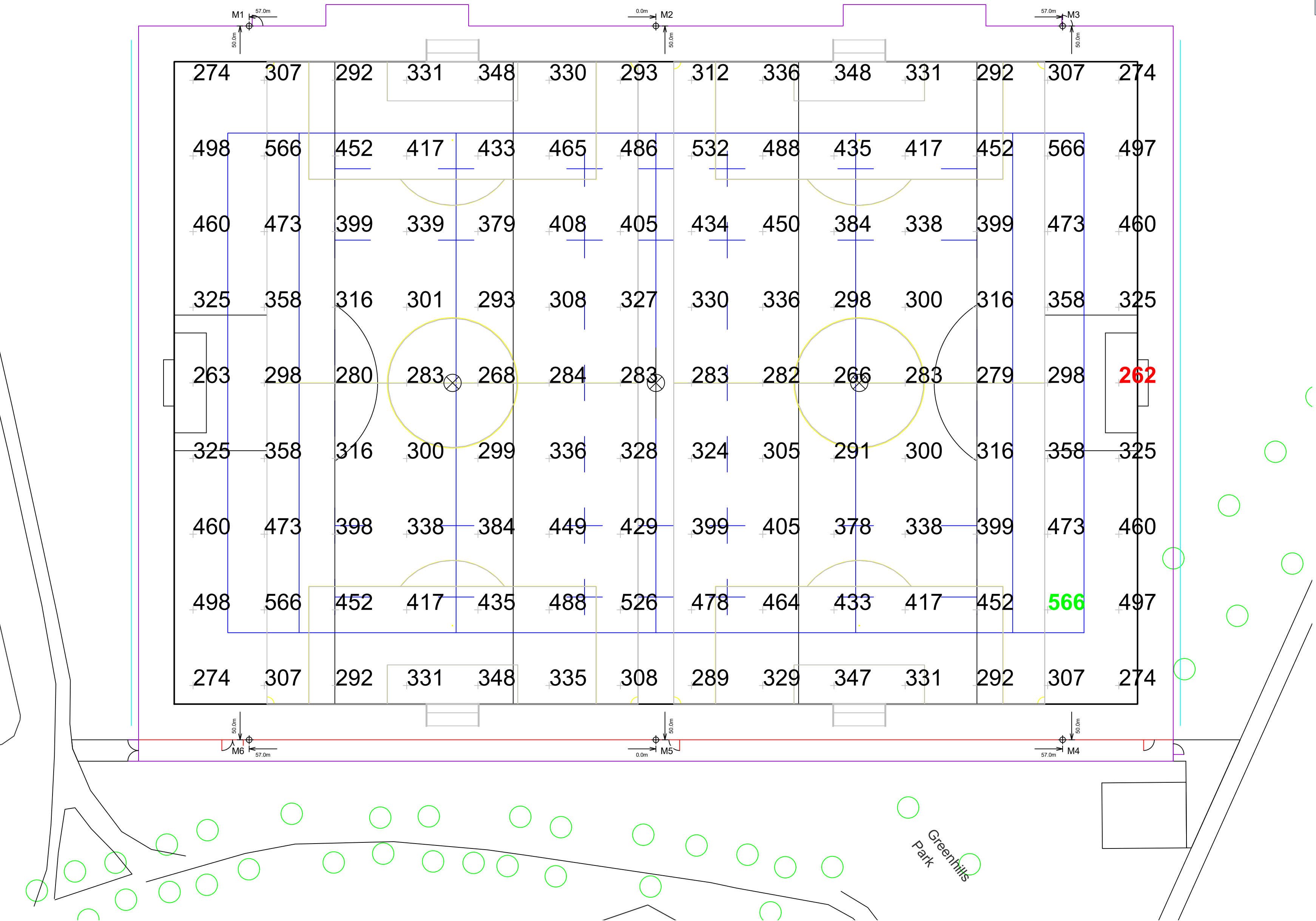
	Entire Grid	MAINTAINED HORIZONTAL LUX
Guaranteed Average:	350	
Scan Average:	369.83	
Maximum:	566	
Minimum:	262	
Guaranteed Min/Avg:	0.7	
Min/Avg:	0.71	
Min/Max:	0.46	
UG (adjacent pts):	1.84	
CU:	0.86	
No. of Points:	126	
FIXTURE INFORMATION		
Applied Circuits:	A,B	
No. of Fixtures:	30	
Total Load:	41.91 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.

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: C.McDole • File #247949A • 10-Sep-25

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	M1-M6	21.34m	-	21.34m	TLC-LED-1500	5	5	0
6				Totals		30	30	0

Above Field Level is height of fixtures above area shown

Greenhills Park GAA

Dublin, Leinster

Grid Summary

Name: **LTW**
Size: 135.0m x 90.0m
Spacing: 9.1m x 3.0m
Height: 1.5m above grade

Illumination Summary

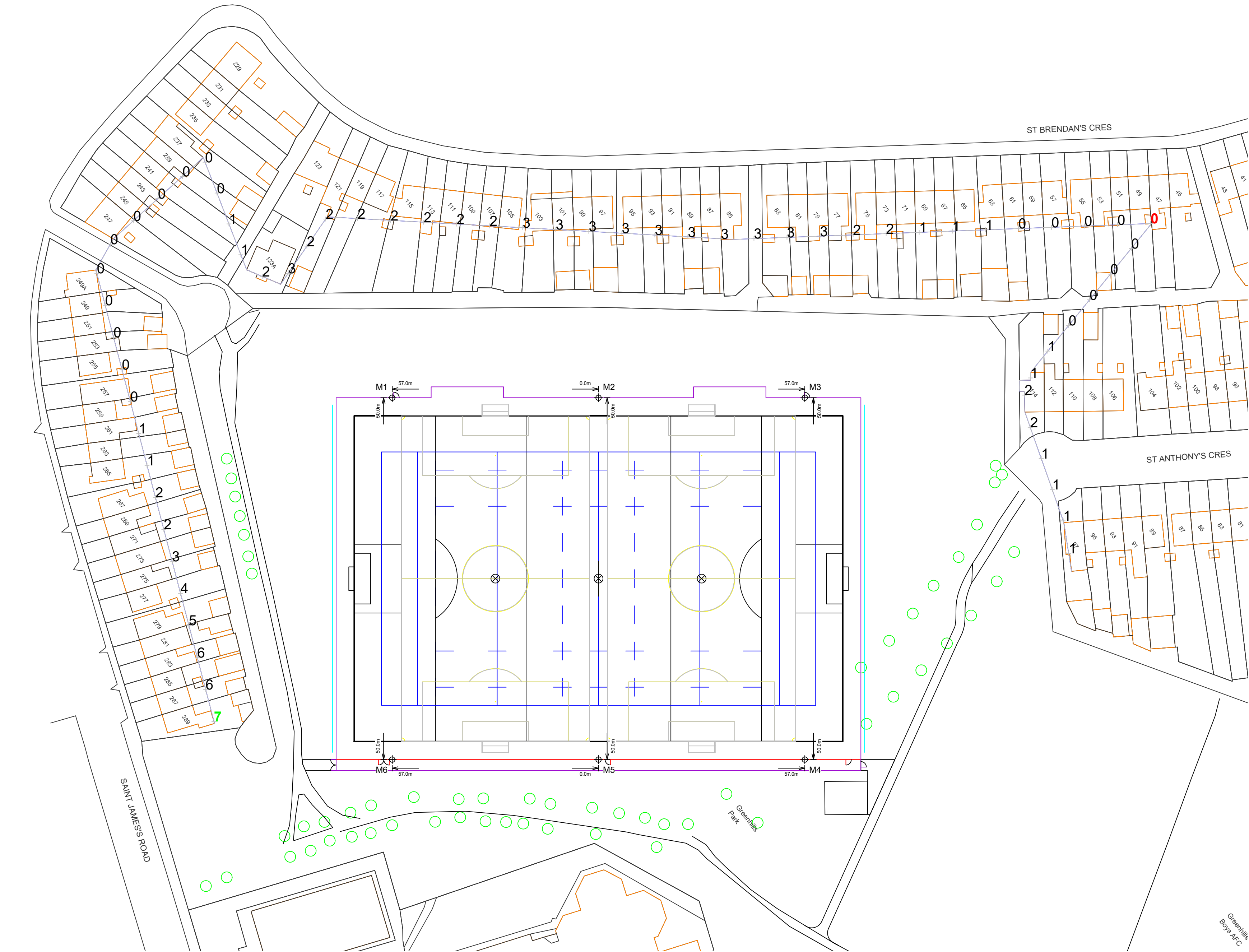
		MAINTAINED MAX VERTICAL LUX
		Entire Grid
Scan Average:		1.67
Maximum:		7
Minimum:		0
Min/Avg:		0.00
Min/Max:		0.00
UG (adjacent pts):		0.00
CU:		0.00
No. of Points:		64
FIXTURE INFORMATION		
Applied Circuits:		A,B
No. of Fixtures:		30
Total Load:		41.91 kW

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

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

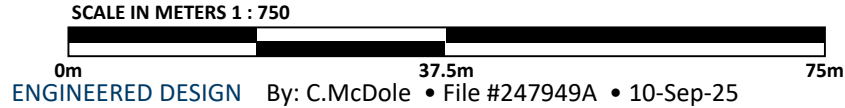
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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									
Structure				Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS	
6	M1-M6	21.34m	-	21.34m	TLC-LED-1500	5	5	0	
6				Totals		30	30	0	

Above Field Level is height of fixtures above area shown



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

Greenhills Park GAA

Dublin, Leinster

Grid Summary	
Name:	Spill
Size:	135.0m x 90.0m
Spacing:	10.0m x 10.0m
Height:	1.5m above grade

Illumination Summary	
	MAINTAINED HORIZONTAL LUX
Entire Grid	
Scan Average:	95.36
Maximum:	588
Minimum:	0
Min/Avg:	0.00
Min/Max:	0.00
UG (adjacent pts):	13.75
CU:	1.00
No. of Points:	598
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	30
Total Load:	41.91 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.

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.

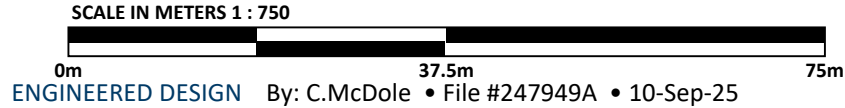
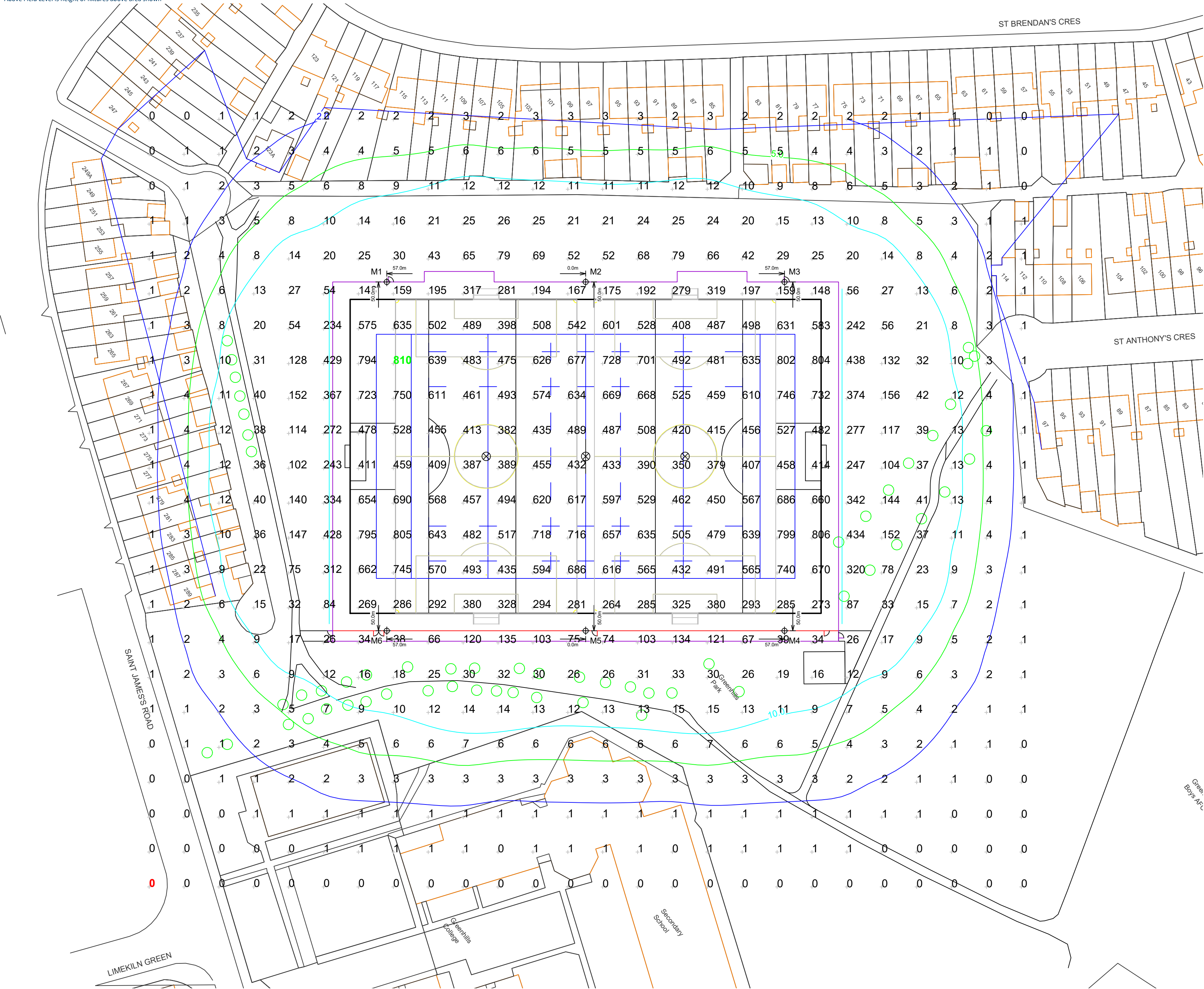


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ILLUMINATION SUMMARY

Equipment List For Areas Shown									
Structure				Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS	
6	M1-M6	21.34m	-	21.34m	TLC-LED-1500	5	5	0	
6				Totals		30	30	0	

Above Field Level is height of fixtures above area shown



ENGINEERED DESIGN By: C.McDole • File #247949A • 10-Sep-25

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

Greenhills Park GAA

Dublin, Leinster

Grid Summary	
Name:	Spill
Size:	135.0m x 90.0m
Spacing:	10.0m x 10.0m
Height:	1.5m above grade

Illumination Summary	
	MAINTAINED MAX VERTICAL LUX
Entire Grid	
Scan Average:	137.33
Maximum:	810
Minimum:	0
Min/Avg:	0.00
Min/Max:	0.00
UG (adjacent pts):	7.95
CU:	1.00
No. of Points:	598
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	30
Total Load:	41.91 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.

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