

Shanganagh Park Phase 1

Dublin,Leinster

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1	24.4	24.4	6	TLC-LED-1500	8.58 kW	B
		24.4	4	TLC-LED-900	3.56 kW	B
P2	24.4	24.4	5	TLC-LED-1500	7.15 kW	B
		24.4	5	TLC-LED-1500	7.15 kW	C
		24.4	1	TLC-LED-900	0.89 kW	B
		24.4	1	TLC-LED-900	0.89 kW	C
P3	24.4	24.4	5	TLC-LED-1500	7.15 kW	C
		24.4	5	TLC-LED-900	4.45 kW	C
P4	24.4	24.4	9	TLC-LED-1500	12.87 kW	C
		24.4	9	TLC-LED-1500	12.87 kW	A
P5	24.4	24.4	10	TLC-LED-1500	14.30 kW	A
		24.4	5	TLC-LED-1500	7.15 kW	C
		24.4	5	TLC-LED-1500	7.15 kW	B
		24.4	1	TLC-LED-900	0.89 kW	A
P6	24.4	24.4	9	TLC-LED-1500	12.87 kW	A
		24.4	9	TLC-LED-1500	12.87 kW	B
P7, P9	24.4	24.4	5	TLC-LED-1500	7.15 kW	A
		24.4	5	TLC-LED-900	4.45 kW	A
P8	24.4	24.4	6	TLC-LED-1500	8.58 kW	A
		24.4	5	TLC-LED-900	4.45 kW	A
P10	15.2	15.2	4	TLC-LED-900	3.56 kW	D
P11	15.2	15.2	3	TLC-LED-900	2.67 kW	D
11			127		163.25 kW	

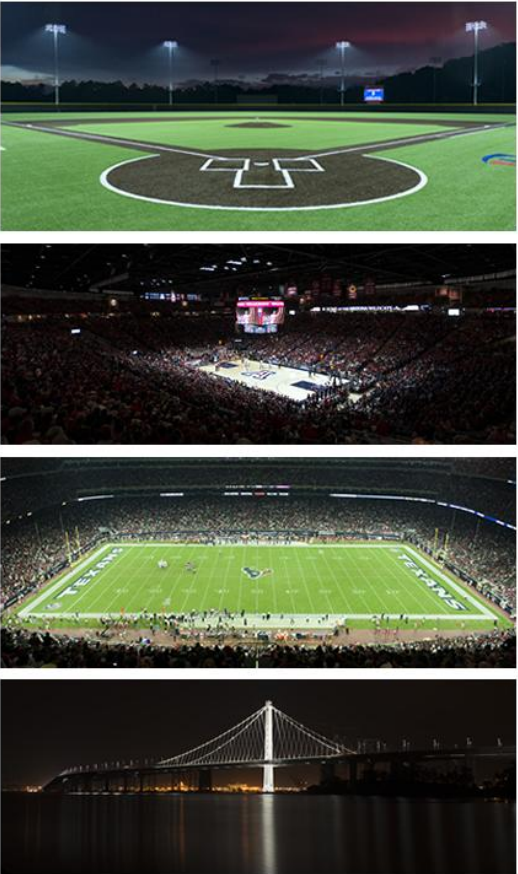
Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Pitch 1	77.16 kW	60
B	Football 1 / Pitch 2	40.2 kW	30
C	Football 2 / Pitch 2	39.66 kW	30
D	Track	6.23 kW	7

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 4000K - 70 CRI	890W	89,600	>120,000	>120,000	>120,000	34
TLC-LED-1500	LED 4000K - 70 CRI	1430W	160,000	>120,000	>120,000	>120,000	93

Light Level Summary

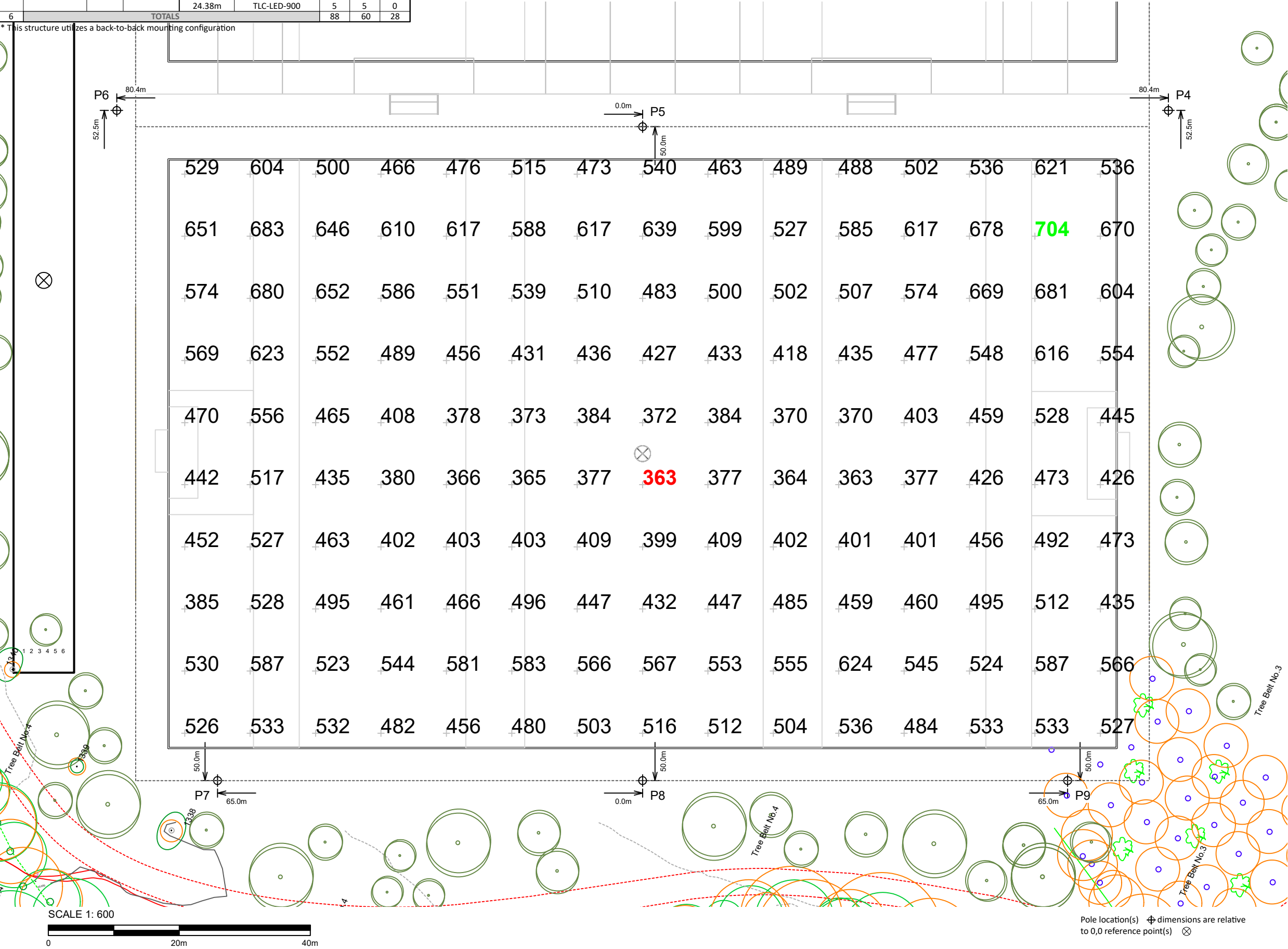
Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Min/Max	Min/Ave		
Football 1	Horizontal Illuminance	283	178	426	0.42	0.63	B	30
Football 2	Horizontal Illuminance	273	169	414	0.41	0.62	C	30
GAA Pitch 1	Horizontal Illuminance	502	363	704	0.52	0.72	A	60
GAA Pitch 2	Horizontal Illuminance	506	369	698	0.53	0.73	B,C	60
Spill Blanket 1m 50%	Horizontal	129	0	416	0.00	0.00	A,B,C,D	127
Spill Blanket 1m	Horizontal	257	0	832	0.00	0.00	A,B,C,D	127
Spill Blanket 2m 50%	Horizontal	129	0	443	0.00	0.00	A,B,C,D	127
Spill Blanket 2m	Horizontal	257	0	885	0.00	0.00	A,B,C,D	127
Spill line 1m 50%	Horizontal	0.53	0	1.47	0.00	0.00	A,B,C,D	127
Spill line 1m	Horizontal	1.06	0	2.95	0.00	0.00	A,B,C,D	127
Spill line 1m	Max Candela (by Fixture)	7601	48.6	47275	0.00	0.01	A,B,C,D	127
Spill line 2m 50%	Horizontal	0.42	0	1.28	0.00	0.00	A,B,C,D	127
Spill line 2m	Horizontal	0.83	0	2.56	0.00	0.00	A,B,C,D	127
Track	Horizontal Illuminance	240	121	373	0.33	0.50	D	7

From Hometown to Professional



EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P4, P6	24.38m	-	24.38m	TLC-LED-1500	18	9	9
1	P5	24.38m	-	24.38m	TLC-LED-900	1	1	0
				24.38m	TLC-LED-1500	10/10*	10	10
2	P7, P9	24.38m	-	24.38m	TLC-LED-1500	5	5	0
				24.38m	TLC-LED-900	5	5	0
1	P8	24.38m	-	24.38m	TLC-LED-1500	6	6	0
				24.38m	TLC-LED-900	5	5	0
6	TOTALS					88	60	28

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



Shanganagh Park Phase 1

Dublin, Leinster

GRID SUMMARY	
Name:	GAA Pitch 1
Size:	145.0m x 90.0m
Spacing:	10.0m x 9.5m
Height:	1.0m above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Guaranteed Average:	500
Scan Average:	501.67
Maximum:	704
Minimum:	363
Guaranteed Min / Avg:	0.7
Min / Avg:	0.72
Min / Max:	0.52
UG (adjacent pts):	1.38
CU:	0.85
No. of Points:	150
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	60
Total Load:	77.16 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.

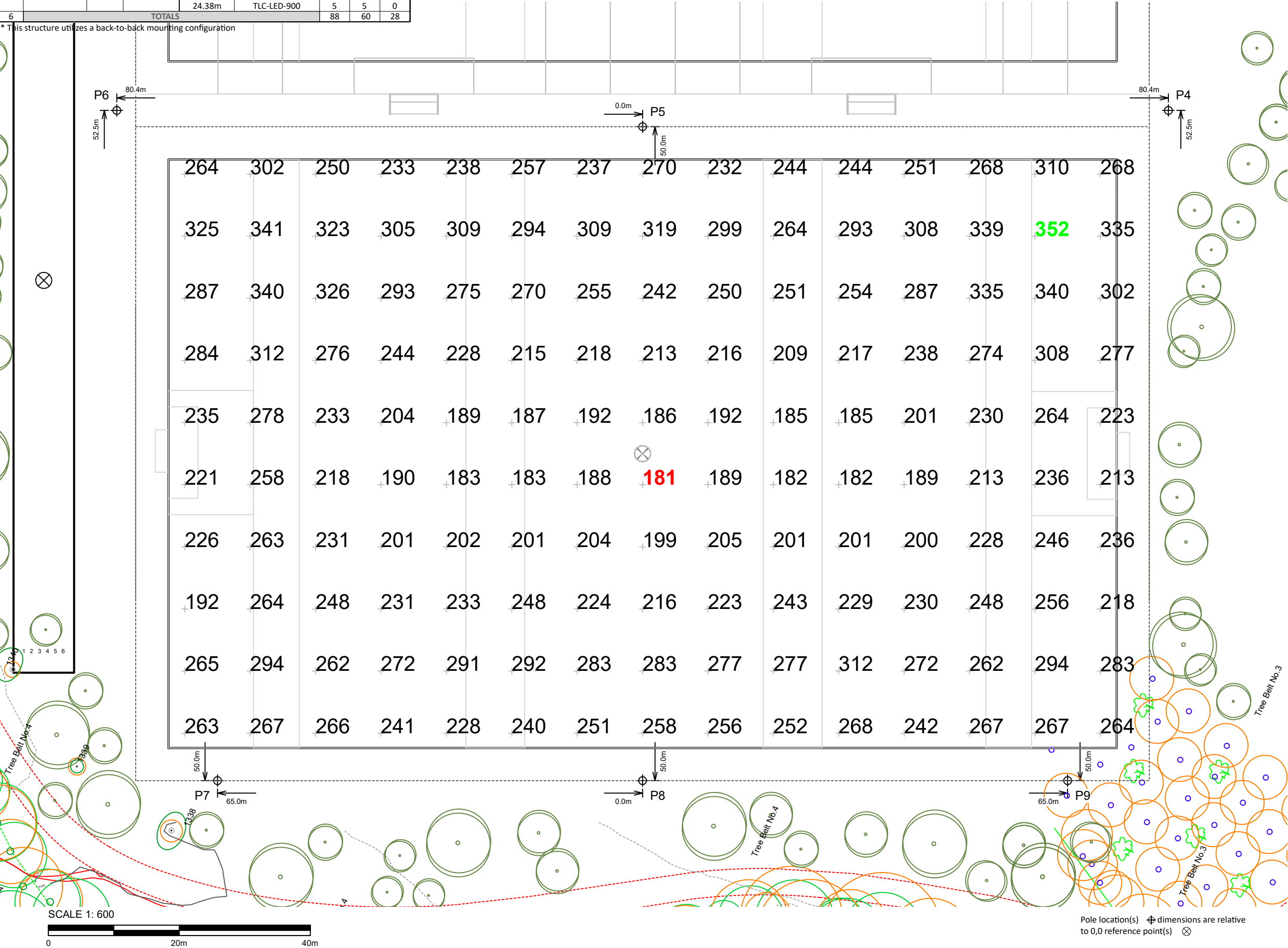


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	P4, P6	24.38m	-	24.38m	TLC-LED-1500	18	9	9
1	P5	24.38m	-	24.38m	TLC-LED-900	1	1	0
2	P7, P9	24.38m	-	24.38m	TLC-LED-1500	10/10*	10	10
				24.38m	TLC-LED-1500	5	5	0
				24.38m	TLC-LED-900	5	5	0
1	P8	24.38m	-	24.38m	TLC-LED-1500	6	6	0
6				24.38m	TLC-LED-900	5	5	0
				TOTALS				88

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



Shanganagh Park Phase 1

Dublin, Leinster

GRID SUMMARY	
Name:	GAA Pitch 1
Size:	145.0m x 90.0m
Spacing:	10.0m x 9.5m
Height:	1.0m above grade

ILLUMINATION SUMMARY (50% Dimming)	
MAINTAINED HORIZONTAL LUX	
Scan Average:	251
Maximum:	352
Minimum:	182
Min / Avg:	0.72
Min / Max:	0.52
UG (adjacent pts):	1.38
CU:	0.85
No. of Points:	150
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	60
Total Load:	38.58 kW (50% dimming)

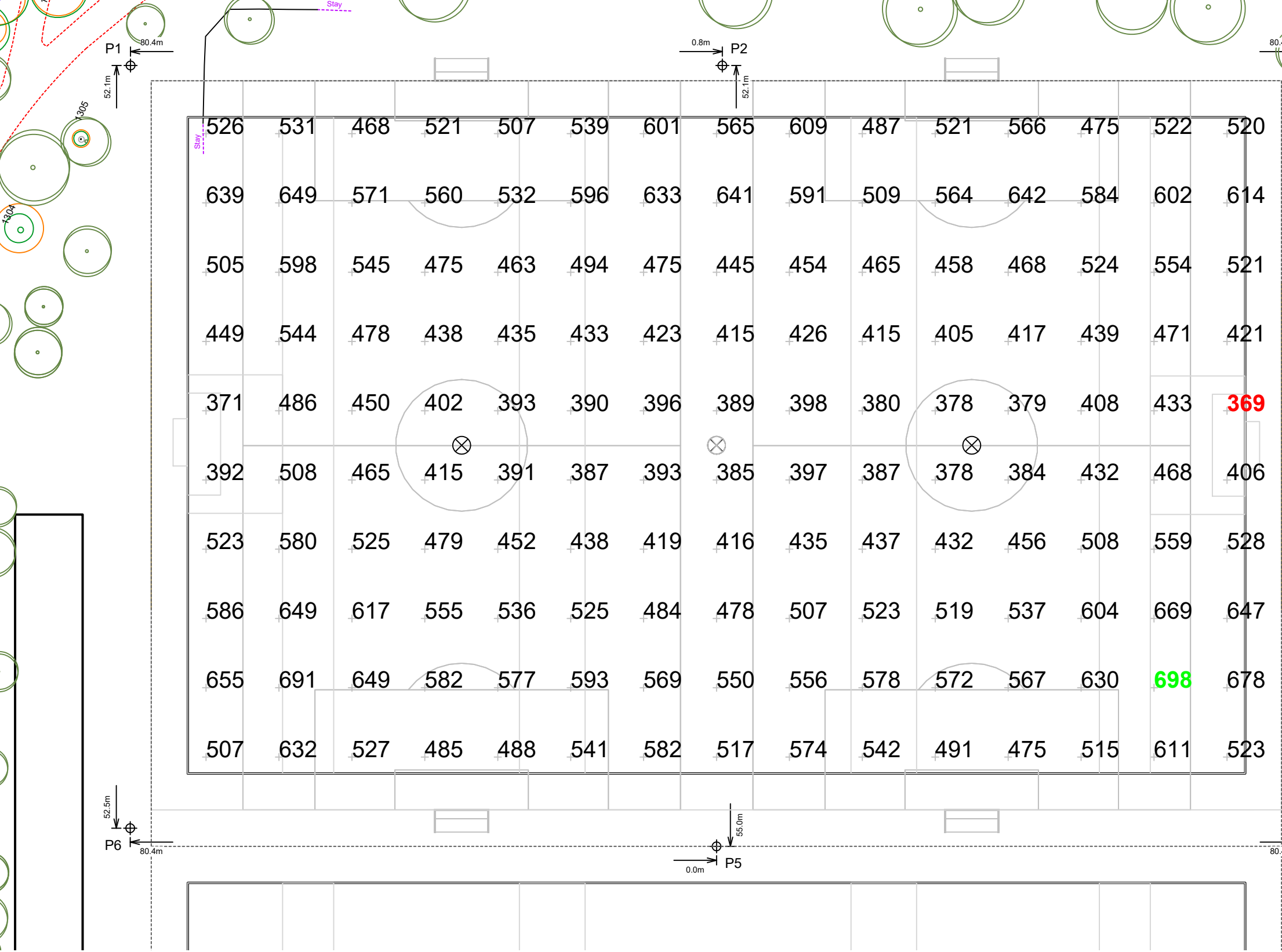
Dimming Summary: Values shown are estimated. Reducing wattage based on dimming can increase L90, L80, and L70 hours. See ILLUMINATION SUMMARY for complete analysis.



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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	P1	24.38m	-	24.38m	TLC-LED-1500	6	6	0
				24.38m	TLC-LED-900	4	4	0
1	P2	24.38m	-	24.38m	TLC-LED-900	2	2	0
				24.38m	TLC-LED-1500	10	10	0
1	P3	24.38m	-	24.38m	TLC-LED-1500	5	5	0
				24.38m	TLC-LED-900	5	5	0
2	P4, P6	24.38m	-	24.38m	TLC-LED-1500	18	9	9
1	P5	24.38m	-	24.38m	TLC-LED-900	1	0	1
				24.38m	TLC-LED-1500	10/10*	10	10
6	TOTALS					89	60	29

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



Shanganagh Park Phase 1

Dublin, Leinster

GRID SUMMARY	
Name:	GAA Pitch 2
Size:	145.0m x 90.0m
Spacing:	10.0m x 9.5m
Height:	1.0m above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Guaranteed Average:	500
Scan Average:	506.18
Maximum:	698
Minimum:	369
Guaranteed Min / Avg:	0.7
Min / Avg:	0.73
Min / Max:	0.53
UG (adjacent pts):	1.44
CU:	0.83
No. of Points:	150
LUMINAIRE INFORMATION	
Applied Circuits:	B, C
No. of Luminaires:	60
Total Load:	79.86 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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



We Make It Happen.

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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	P1	24.38m	-	24.38m	TLC-LED-1500	6	6	0
				24.38m	TLC-LED-900	4	4	0
1	P2	24.38m	-	24.38m	TLC-LED-900	2	2	0
				24.38m	TLC-LED-1500	10	10	0
1	P3	24.38m	-	24.38m	TLC-LED-1500	5	5	0
				24.38m	TLC-LED-900	5	5	0
2	P4, P6	24.38m	-	24.38m	TLC-LED-1500	18	9	9
1	P5	24.38m	-	24.38m	TLC-LED-900	1	0	1
				24.38m	TLC-LED-1500	10/10*	10	10
6	TOTALS					89	60	29

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

Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	GAA Pitch 2
Size:	145.0m x 90.0m
Spacing:	10.0m x 9.5m
Height:	1.0m above grade

ILLUMINATION SUMMARY (50% Dimming)	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	253
Maximum:	349
Minimum:	185
Min / Avg:	0.73
Min / Max:	0.53
UG (adjacent pts):	1.44
CU:	0.83
No. of Points:	150
LUMINAIRE INFORMATION	
Applied Circuits:	B, C
No. of Luminaires:	60
Total Load:	39.93 kW (50% dimming)

Dimming Summary: Values shown are estimated. Reducing wattage based on dimming can increase L90, L80, and L70 hours. See ILLUMINATION SUMMARY for complete analysis.



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
1	P1	24.38m	-	24.38m	TLC-LED-1500	6	6
				24.38m	TLC-LED-900	4	4
1	P2	24.38m	-	24.38m	TLC-LED-900	2	1
				24.38m	TLC-LED-1500	10	5
1	P5	24.38m	-	24.38m	TLC-LED-900	1	0
				24.38m	TLC-LED-1500	10/10*	5
1	P6	24.38m	-	24.38m	TLC-LED-1500	18	9
4	TOTALS					61	30
							31

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



Shanganagh Park Phase 1

Dublin, Leinster

GRID SUMMARY	
Name:	Football 1
Size:	100.0m x 60.0m
Spacing:	9.5m x 9.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	283.45
Maximum:	426
Minimum:	178
Min / Avg:	0.63
Min / Max:	0.42
UG (adjacent pts):	1.86
CU:	0.42
No. of Points:	77
LUMINAIRE INFORMATION	
Applied Circuits:	B
No. of Luminaires:	30
Total Load:	40.2 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.

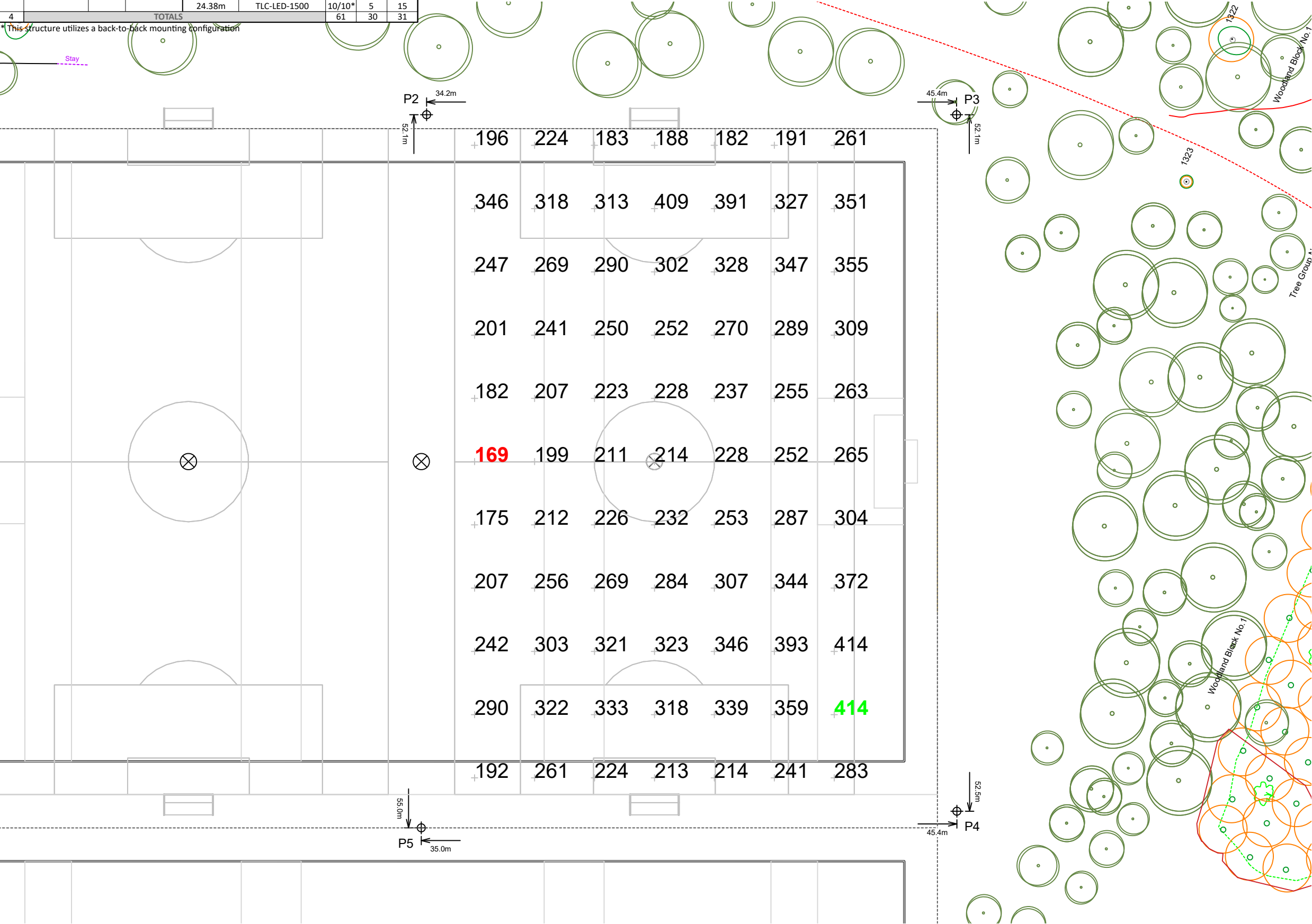


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ILLUMINATION SUMMARY

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
1	P2	24.38m	-	24.38m	TLC-LED-900	2	1	1
				24.38m	TLC-LED-1500	10	5	5
1	P3	24.38m	-	24.38m	TLC-LED-1500	5	5	0
				24.38m	TLC-LED-900	5	5	0
1	P4	24.38m	-	24.38m	TLC-LED-1500	18	9	9
1	P5	24.38m	-	24.38m	TLC-LED-900	1	0	1
				24.38m	TLC-LED-1500	10/10*	5	15
4	TOTALS					61	30	31

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



Shanganagh Park Phase 1

Dublin, Leinster

GRID SUMMARY	
Name:	Football 2
Size:	100.0m x 60.0m
Spacing:	9.5m x 9.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	273.17
Maximum:	414
Minimum:	169
Min / Avg:	0.62
Min / Max:	0.41
UG (adjacent pts):	2.17
CU:	0.42
No. of Points:	77
LUMINAIRE INFORMATION	
Applied Circuits:	C
No. of Luminaires:	30
Total Load:	39.66 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 $\pm$ 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							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
1	P10	15.24m	-	15.24m	TLC-LED-900	4	4
1	P11	15.24m	-	15.24m	TLC-LED-900	3	3
2	TOTALS					7	7

Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Track
Size:	9.3m x 129.0m
Spacing:	5.0m x 9.0m
Height:	1.0m above grade

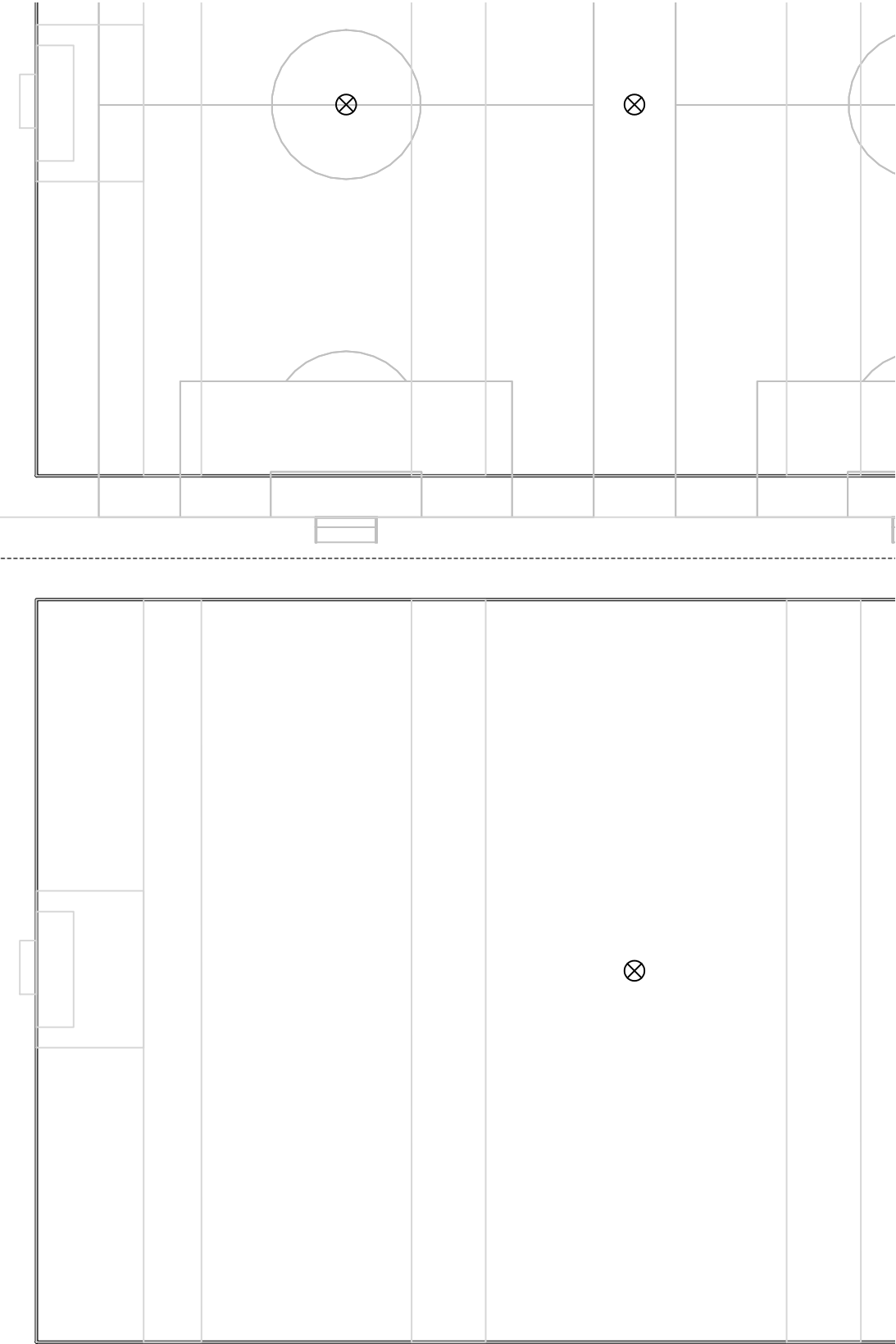
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
	Entire Grid
Guaranteed Average:	200
Scan Average:	240.29
Maximum:	373
Minimum:	121
Guaranteed Min / Avg:	0.6
Min / Avg:	0.51
Min / Max:	0.33
UG (adjacent pts):	2.43
CU:	0.49
No. of Points:	29
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	7
Total Load:	6.23 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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ILLUMINATION SUMMARY

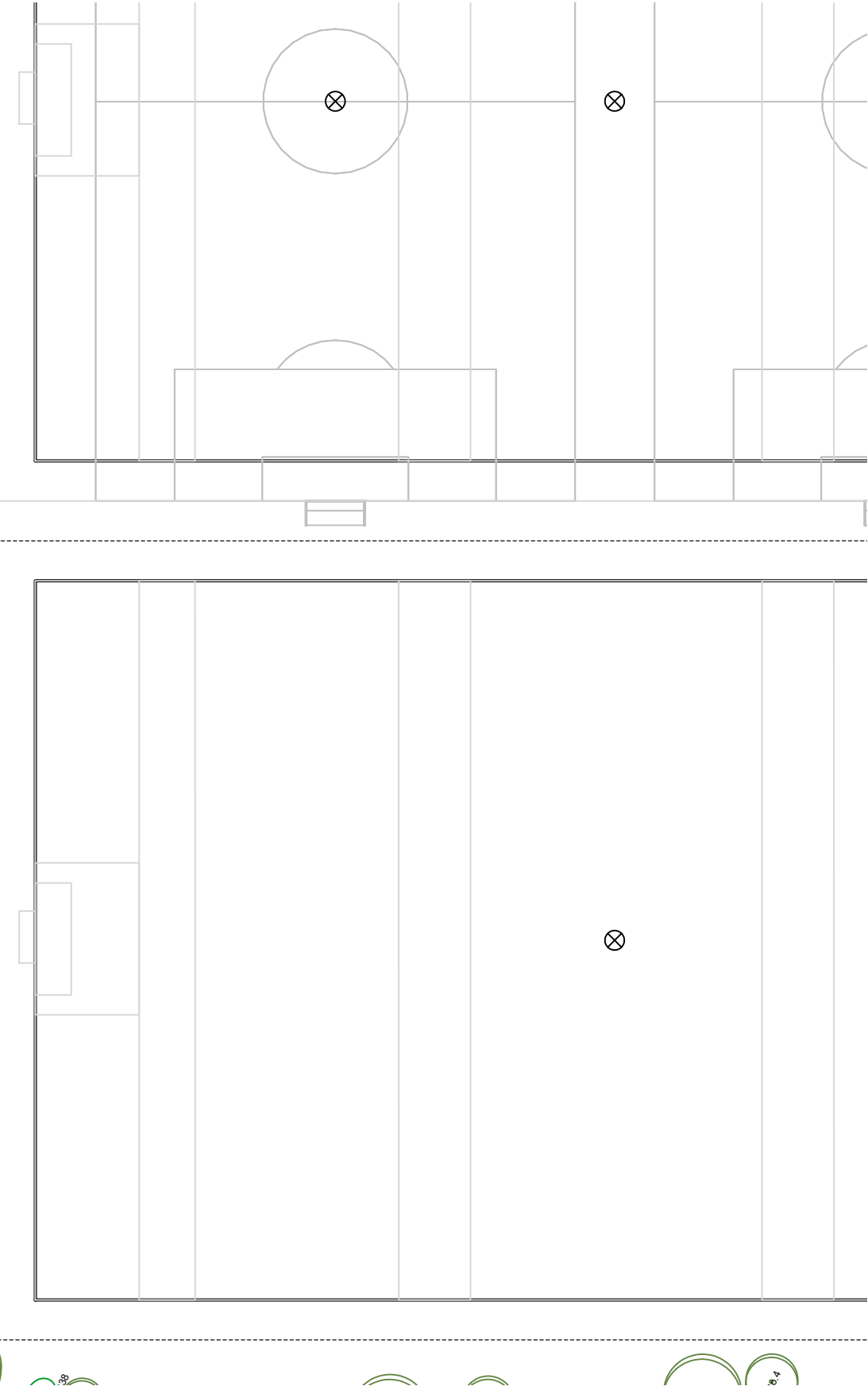
EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID
1	P10	15.24m	-	15.24m	TLC-LED-900	4	4
1	P11	15.24m	-	15.24m	TLC-LED-900	3	3
2	TOTALS					7	7

Shanganagh Park Phase 1
Dublin,Leinster

GRID SUMMARY	
Name:	Track
Size:	9.3m x 129.0m
Spacing:	5.0m x 9.0m
Height:	1.0m above grade

ILLUMINATION SUMMARY (50% Dimming)	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	120
Maximum:	187
Minimum:	60.5
Min / Avg:	0.51
Min / Max:	0.33
UG (adjacent pts):	2.43
CU:	0.49
No. of Points:	29
LUMINAIRE INFORMATION	
Applied Circuits:	D
No. of Luminaires:	7
Total Load:	3.12 kW (50% dimming)

Dimming Summary: Values shown are estimated. Reducing wattage based on dimming can increase L90, L80, and L70 hours. See ILLUMINATION SUMMARY for complete analysis.



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ILLUMINATION SUMMARY - DIMMING AT 50%

Shanganagh Park Phase 1
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GRID SUMMARY	
Name:	Spill Blanket 1m
Spacing:	10.0m x 10.0m
Height:	1.0m above grade

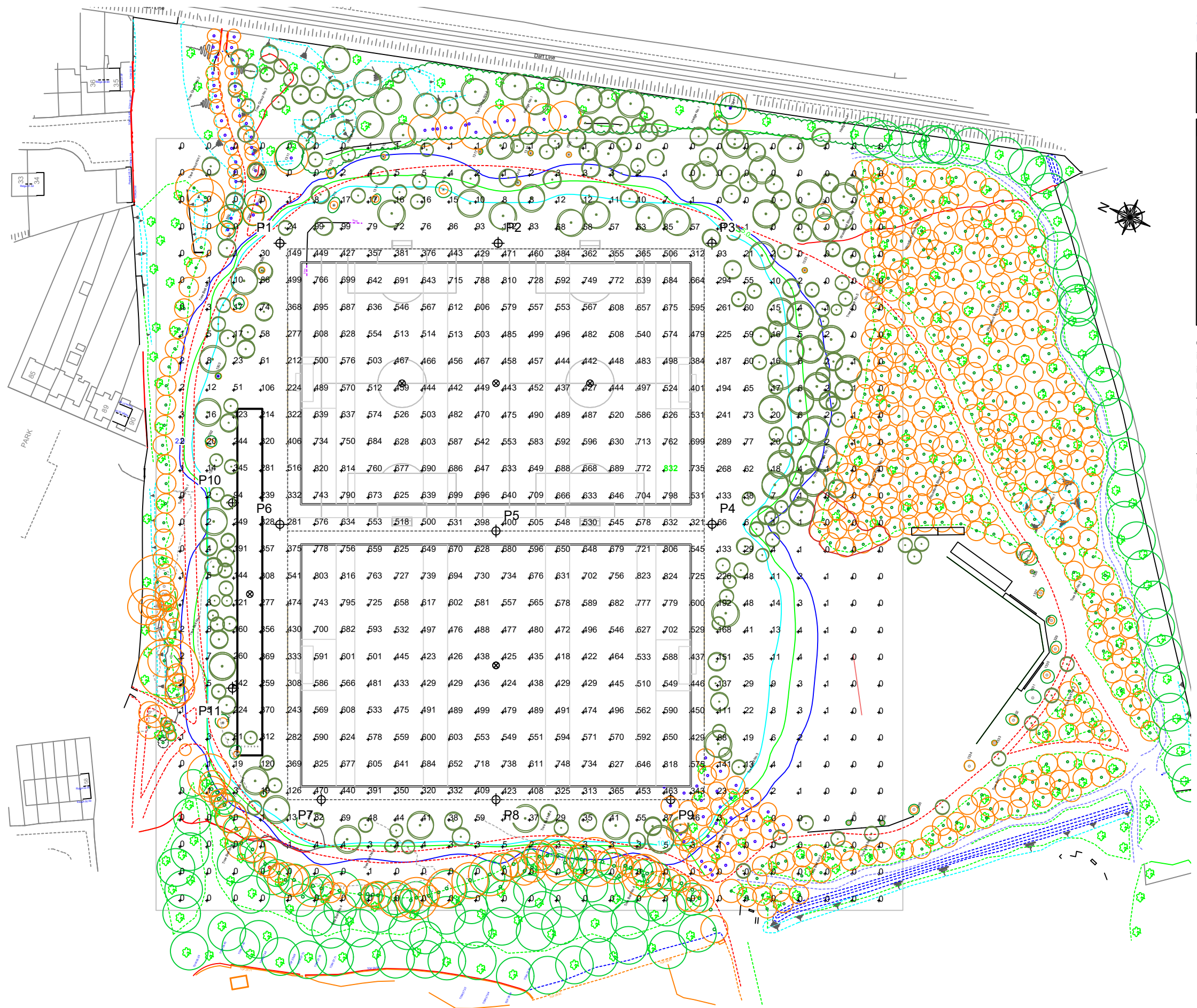
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Scan Average:	Entire Grid
	257.34
	Maximum: 832
	Minimum: 0
	Min / Avg: 0.00
UG (adjacent pts): 152.41	
CU: 0.99	
No. of Points: 783	
LUMINAIRE INFORMATION	
Applied Circuits: A, B, C, D	
No. of Luminaires: 127	
Total Load: 163.25 kW	

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 $\pm 3\%$ 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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Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill Blanket 1m 50%
Spacing:	10.0m x 10.0m
Height:	1.0m above grade

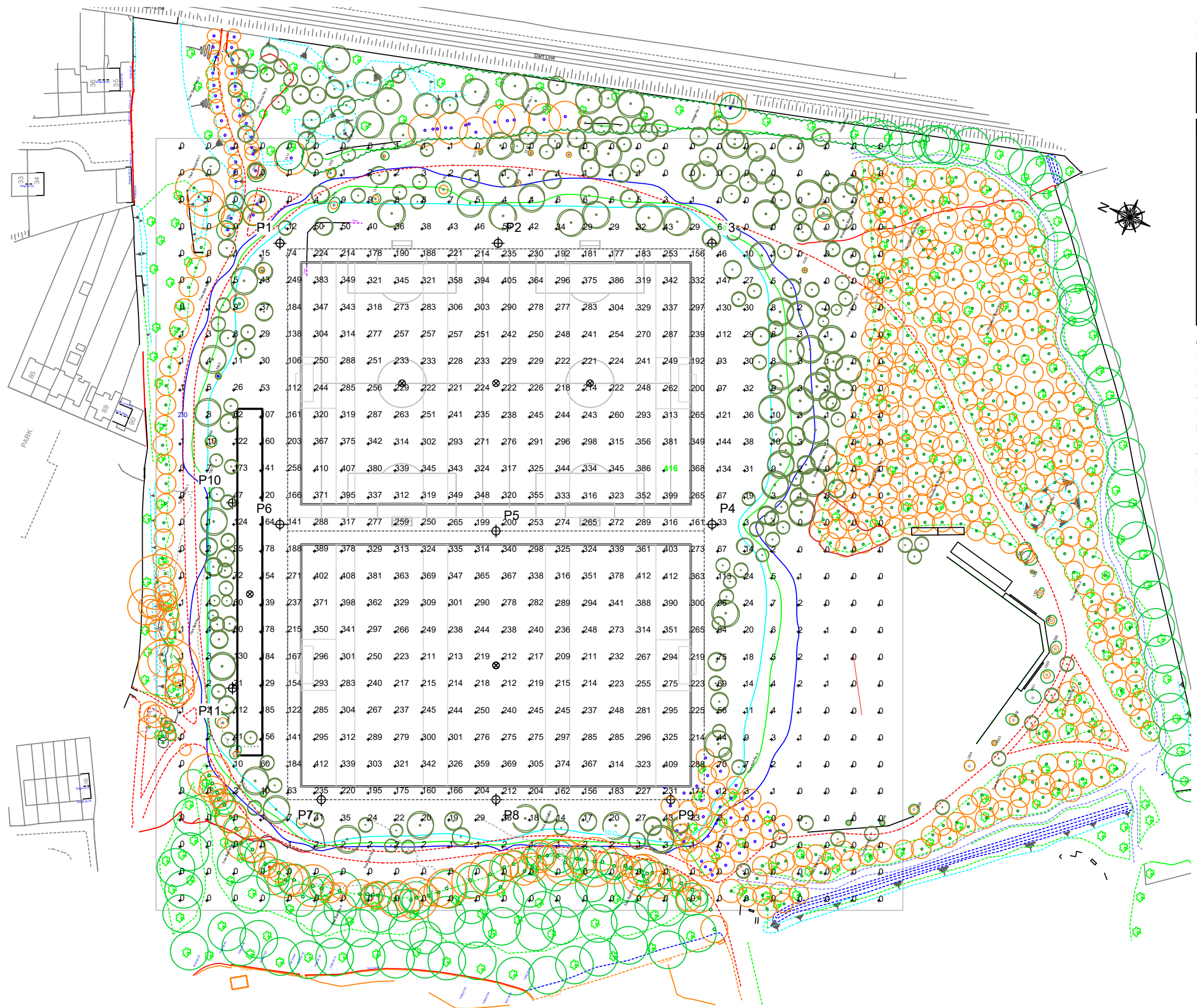
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Scan Average:	128.67
Maximum:	416
Minimum:	0
Min / Avg:	0.00
Min / Max:	0.00
UG (adjacent pts):	152.41
CU:	0.99
No. of Points:	783
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE 1: 1500
0 15m 30m

Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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ILLUMINATION SUMMARY

Shanganagh Park Phase 1
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GRID SUMMARY	
Name:	Spill Blanket 2m
Spacing:	10.0m x 10.0m
Height:	2.0m above grade

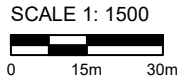
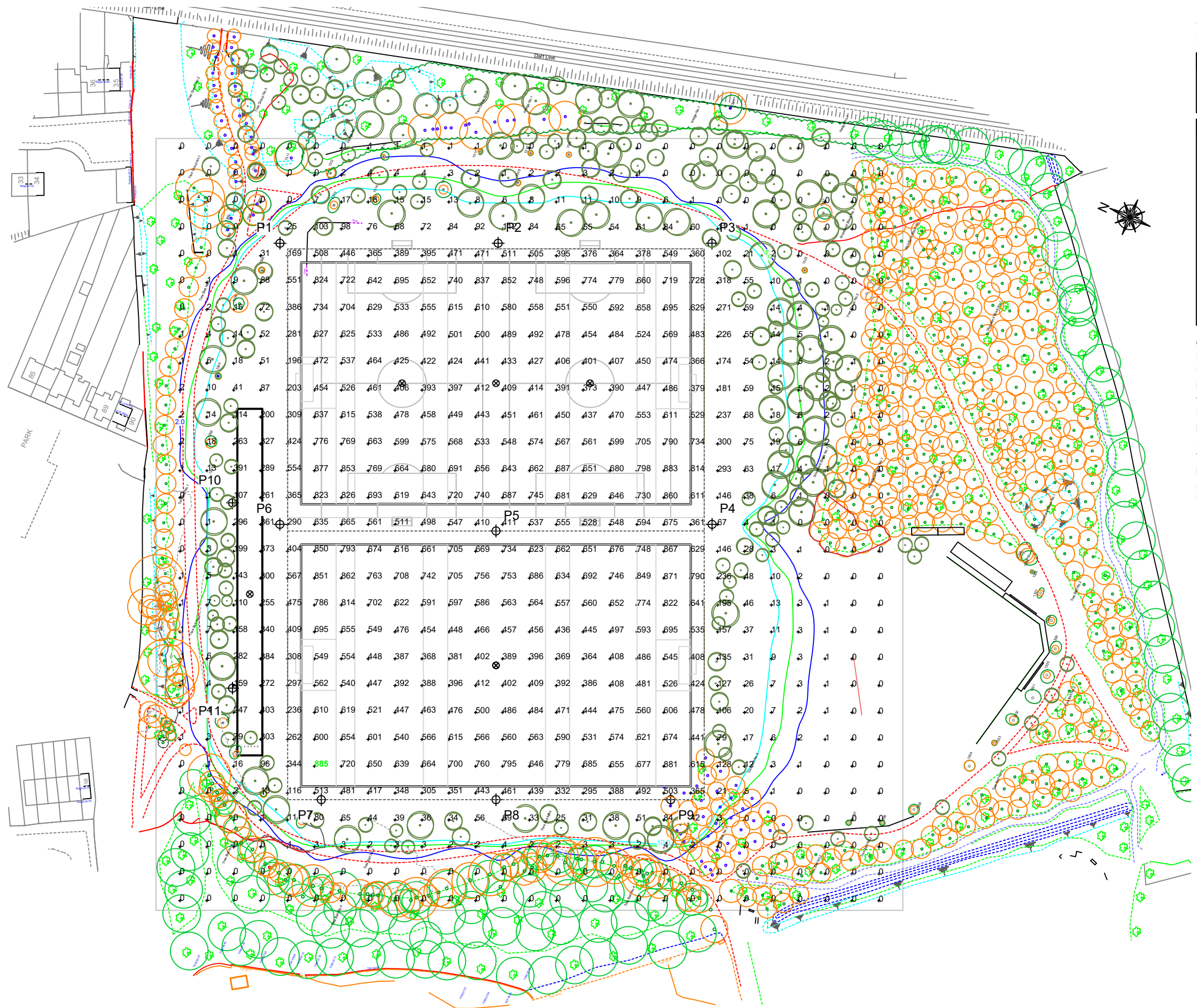
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	257.25
Maximum:	885
Minimum:	0
Min / Avg:	0.00
Min / Max:	0.00
UG (adjacent pts):	231.05
CU:	0.99
No. of Points:	783
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ 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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ILLUMINATION SUMMARY

Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill Blanket 2m 50%
Spacing:	10.0m x 10.0m
Height:	2.0m above grade

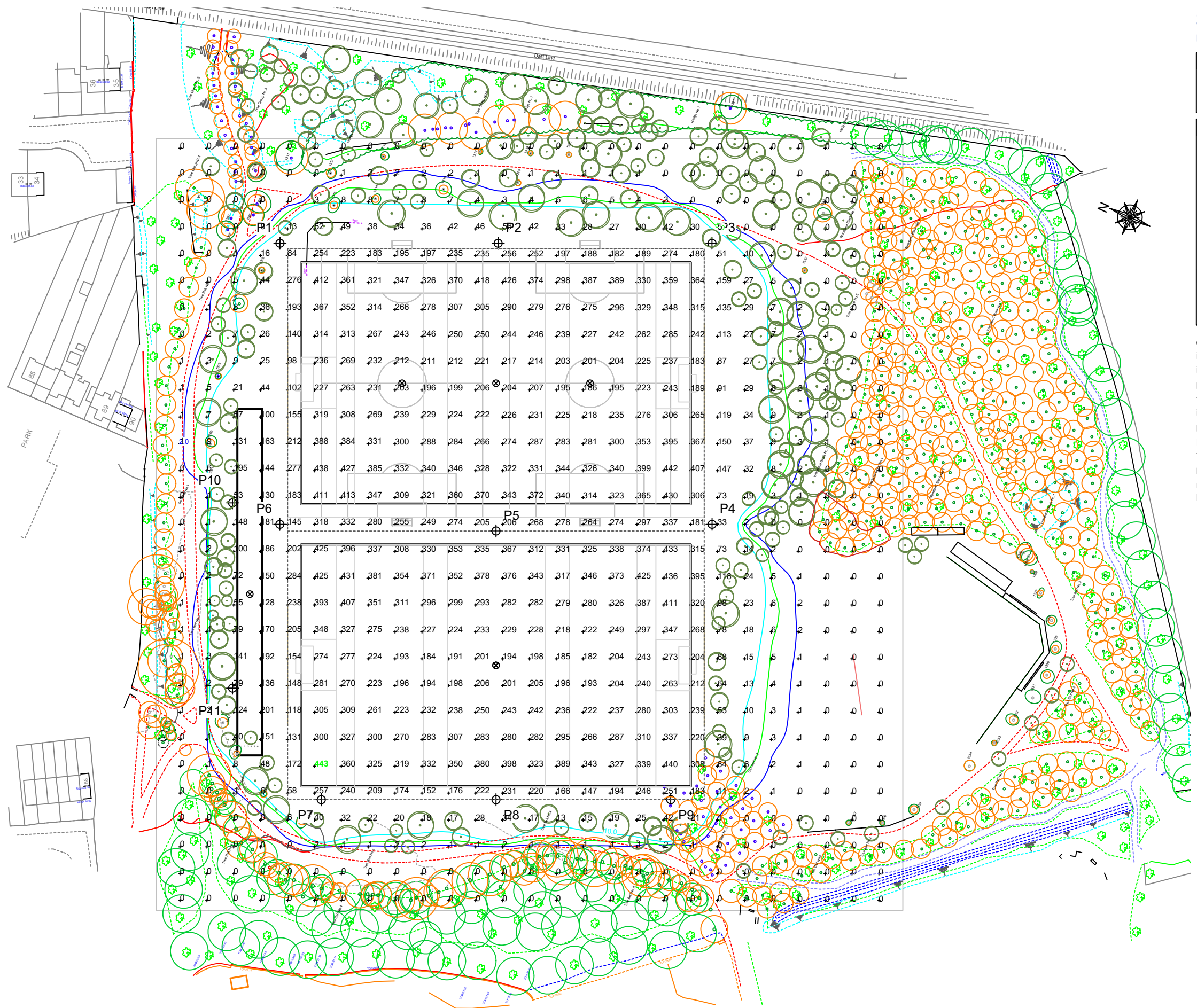
ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL LUX	
Entire Grid	
Scan Average:	128.62
Maximum:	443
Minimum:	0
Min / Avg:	0.00
Min / Max:	0.00
UG (adjacent pts):	231.05
CU:	0.99
No. of Points:	783
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE 1: 1500
0 15m 30m

Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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ILLUMINATION SUMMARY

Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill line 1m
Spacing:	10.0m
Height:	1.0m above grade

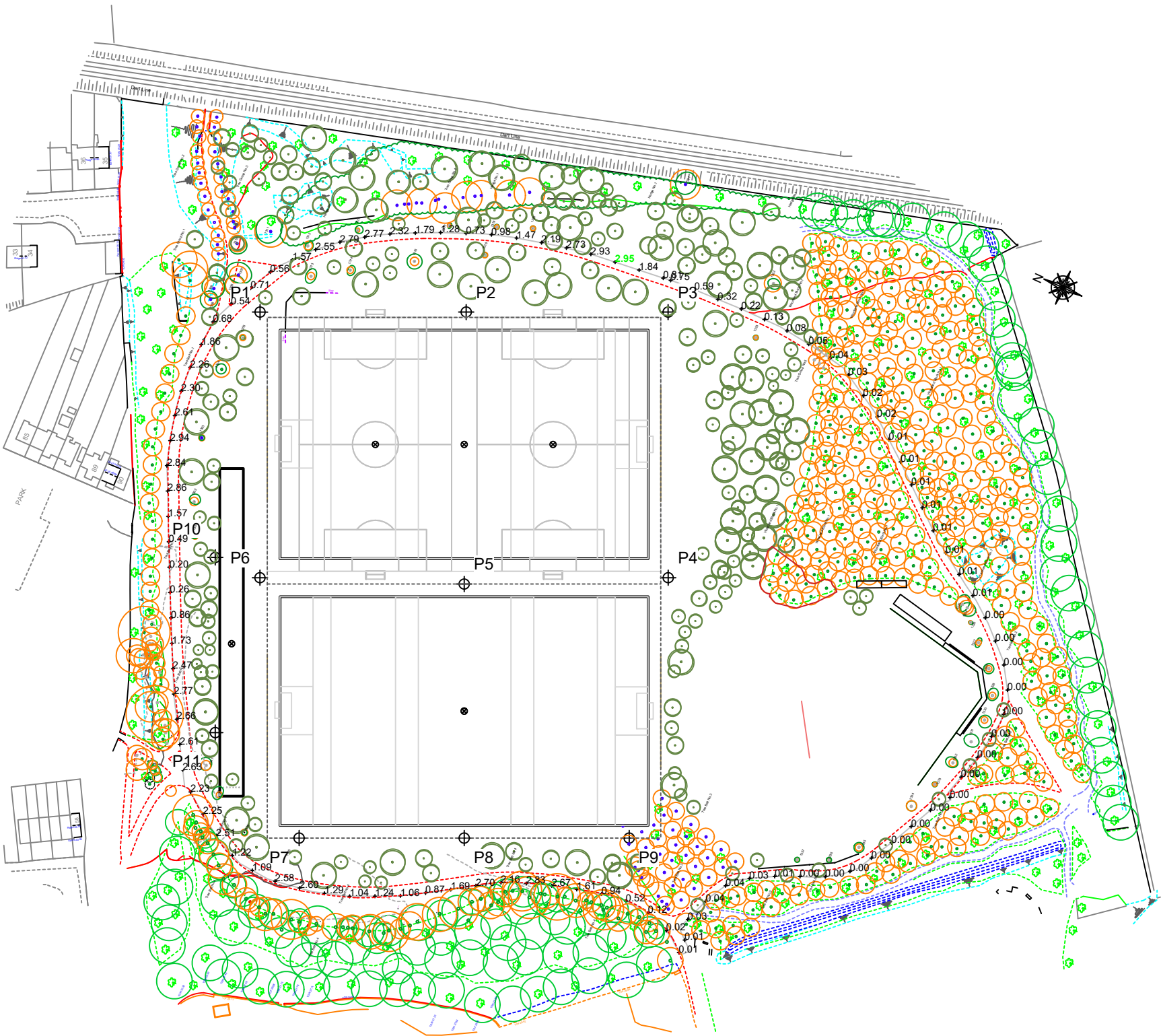
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 1.0576
Maximum:	2.95
Minimum:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE 1: 2000
0 20m 40m

Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill line 1m 50%
Spacing:	10.0m
Height:	1.0m above grade

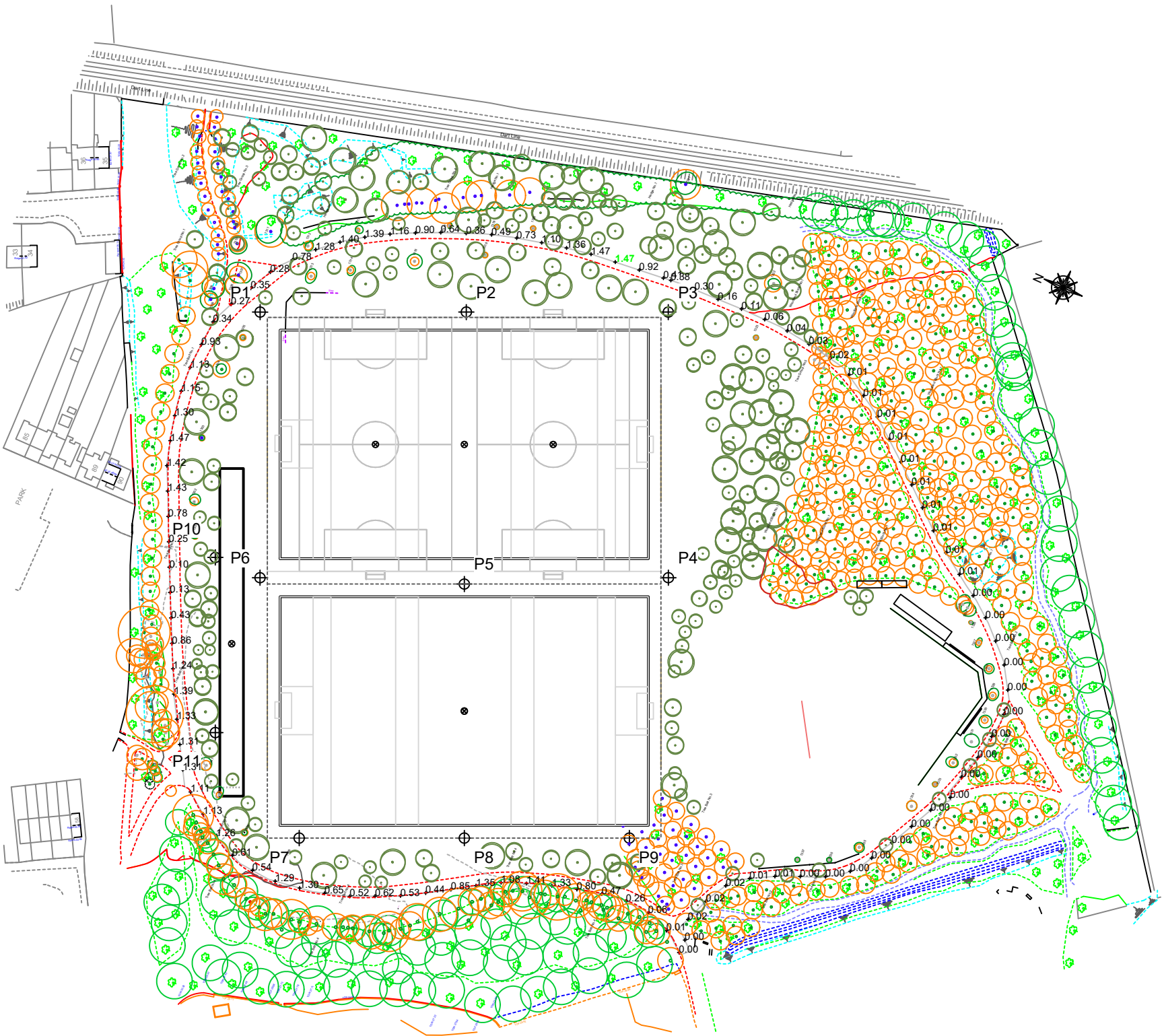
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.5288
Maximum:	1.47
Minimum:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE 1: 2000
0 20m 40m

Pole location(s) $\oplus$ dimensions are relative to 0,0 reference point(s) $\otimes$



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ILLUMINATION SUMMARY

Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill line 2m
Spacing:	10.0m
Height:	2.0m above grade

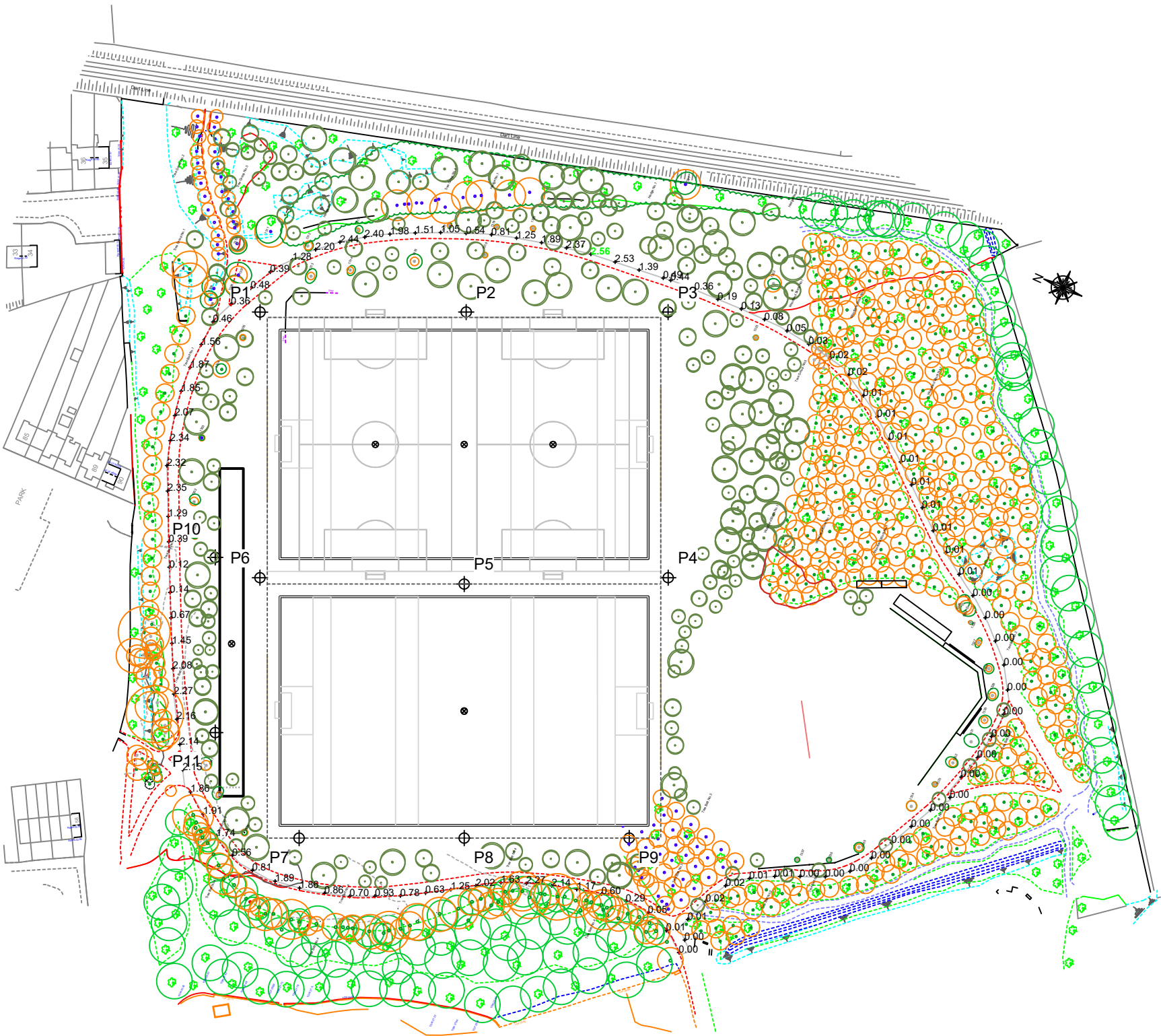
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.8340
Maximum:	2.56
Minimum:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE 1: 2000
0 20m 40m

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



Shanganagh Park Phase 1
Dublin, Leinster

GRID SUMMARY	
Name:	Spill line 2m 50%
Spacing:	10.0m
Height:	2.0m above grade

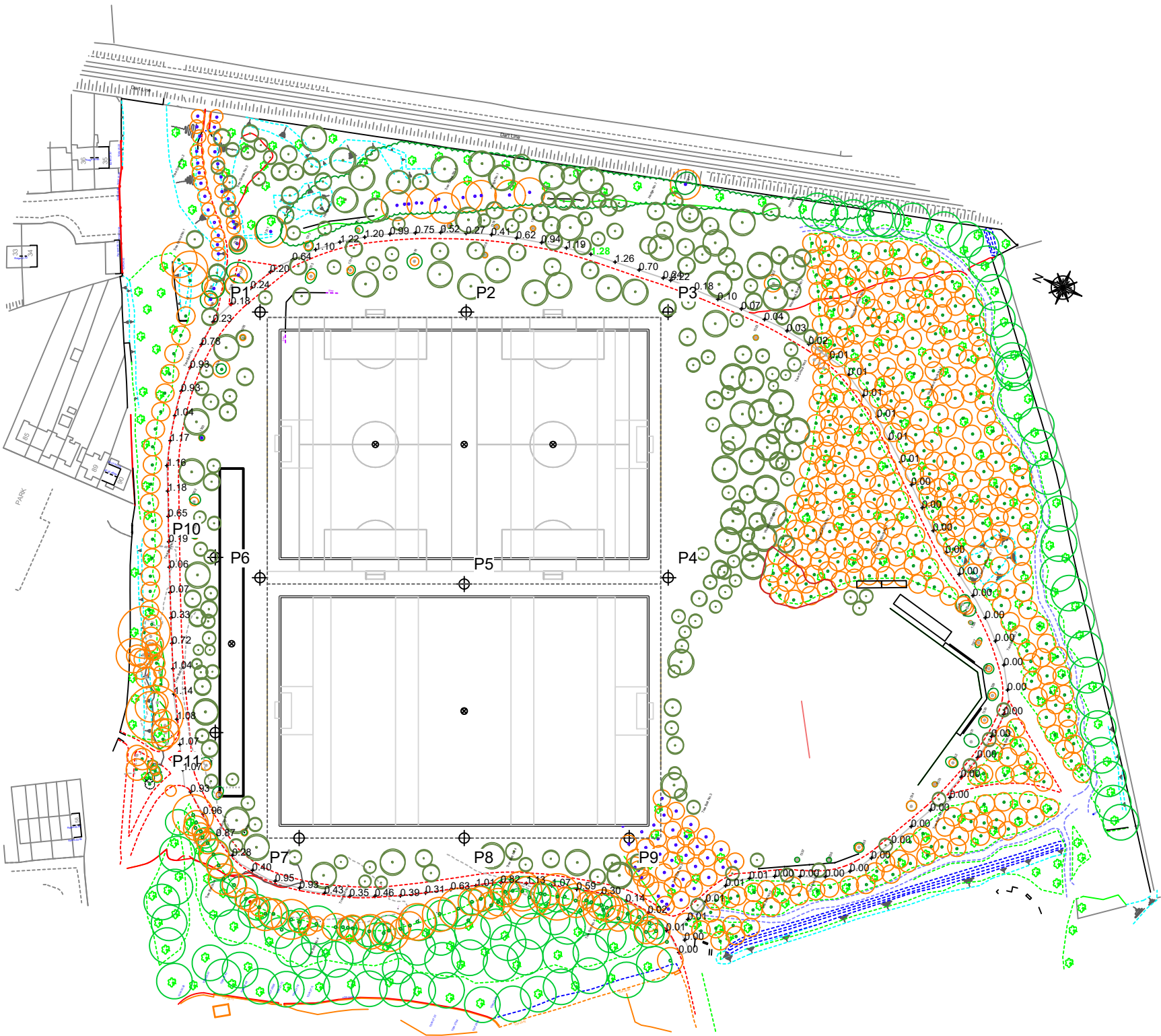
ILLUMINATION SUMMARY	
HORIZONTAL LUX	
Scan Average:	Entire Grid 0.4170
Maximum:	1.28
Minimum:	0.00
No. of Points:	102
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D
No. of Luminaires:	127
Total Load:	163.25 kW

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 1: 2000
0 20m 40m

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



We Make It Happen.

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ILLUMINATION SUMMARY

Shanganagh Park Phase 1
Dublin, Leinster

EQUIPMENT LAYOUT

INCLUDES:

- Football 1
- Football 2
- GAA Pitch 1
- GAA Pitch 2
- Track

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.

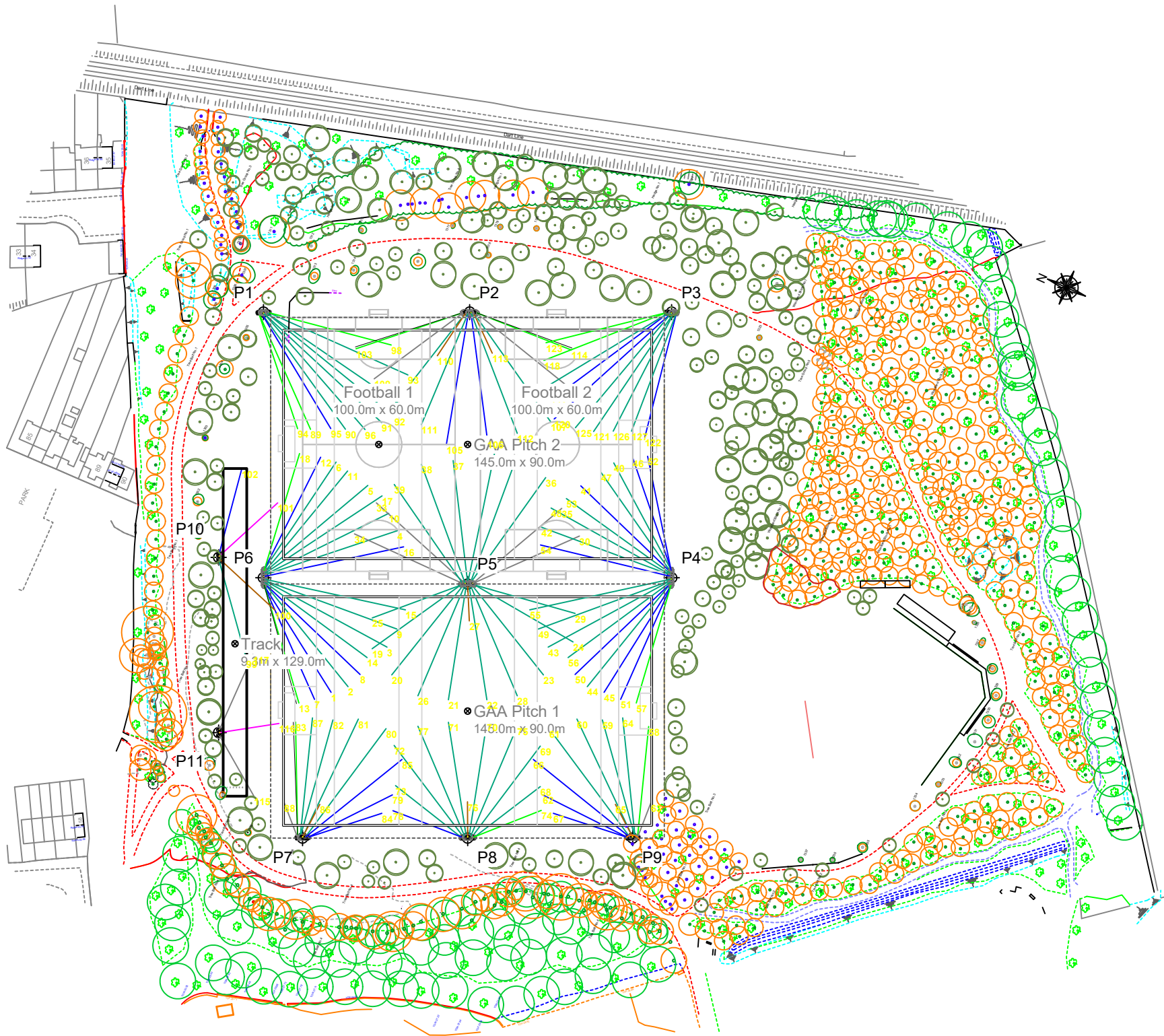
EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
1	P1	24.38m	-	24.38m	TLC-LED-1500	6
				24.38m	TLC-LED-900	4
1	P2	24.38m	-	24.38m	TLC-LED-900	2
				24.38m	TLC-LED-1500	10
1	P3	24.38m	-	24.38m	TLC-LED-1500	5
				24.38m	TLC-LED-900	5
2	P4, P6	24.38m	-	24.38m	TLC-LED-1500	18
1	P5	24.38m	-	24.38m	TLC-LED-900	1
				24.38m	TLC-LED-1500	10/10*
2	P7, P9	24.38m	-	24.38m	TLC-LED-1500	5
				24.38m	TLC-LED-900	5
1	P8	24.38m	-	24.38m	TLC-LED-1500	6
				24.38m	TLC-LED-900	5
1	P10	15.24m	-	15.24m	TLC-LED-900	4
1	P11	15.24m	-	15.24m	TLC-LED-900	3
11	TOTALS					127

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

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
	220 (50)	230 (50)	240 (50)	380 (50)	400 (50)	415 (50)
Single Phase Voltage						
TLC-LED-900	-	-	-	-	-	-
TLC-LED-1500	-	-	-	-	-	-



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