

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P2	18.3 m	18.3 m	1	TLC-LED-1200	1.17 kW	A
		18.3 m	2	TLC-LED-900	1.76 kW	A
T1-T4	21.3 m	21.3 m	1	TLC-LED-1200	1.17 kW	A
		21.3 m	2	TLC-LED-900	1.76 kW	A
		21.3 m	4	TLC-LED-1200	4.68 kW	B
6			34		36.30 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Track	17.58 kW	18
B	Infield	18.72 kW	16

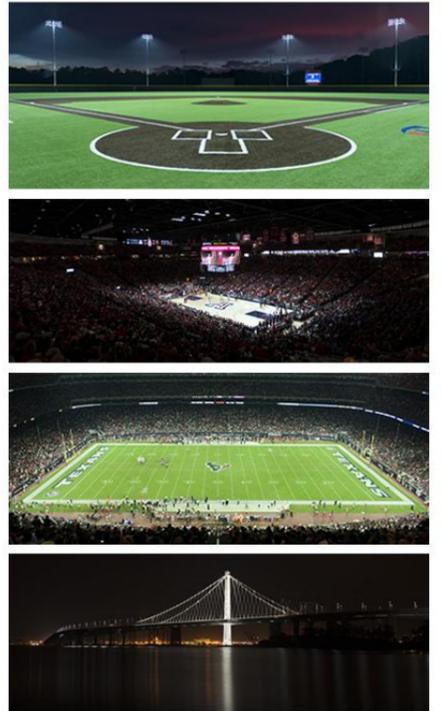
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	22
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	12

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-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	

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Min/Max	Min/Ave			
1. N LTW	Max Vertical Illuminance Metric	0.00	0	0	-	-	A,B	34	
1. S LTW	Max Vertical Illuminance Metric	0.00	0	0	0.00	0.00	A,B	34	
1. W LTW	Max Vertical Illuminance Metric	0.00	0	0	-	-	A,B	34	
2. S LTW	Max Vertical Illuminance Metric	0.00	0	0	-	-	A,B	34	
2. W LTW	Max Vertical Illuminance Metric	0.00	0	0	-	-	A,B	34	
3. S LTW	Max Vertical Illuminance Metric	0.00	0	0	-	-	A,B	34	
Blanket Grid	Horizontal Illuminance	2.99	0	204	0.00	0.00	A,B	34	
Blanket Grid	Max Vert Illuminance (by Light Bank)	3.57	0	236	0.00	0.00	A,B	34	
Path Spill	Horizontal	0.41	0	2	0.00	0.00	A,B	34	
Path Spill	Max Candela (by Fixture)	2660.64	0	11009	0.00	0.00	A,B	34	
Path Spill	Max Vertical Illuminance Metric	0.84	0	4	0.00	0.00	A,B	34	
Soccer	Horizontal Illuminance	252.66	190	404	0.47	0.75	B	16	
Track	Horizontal Illuminance	223.14	151	321	0.47	0.68	A	18	

From Hometown to Professional



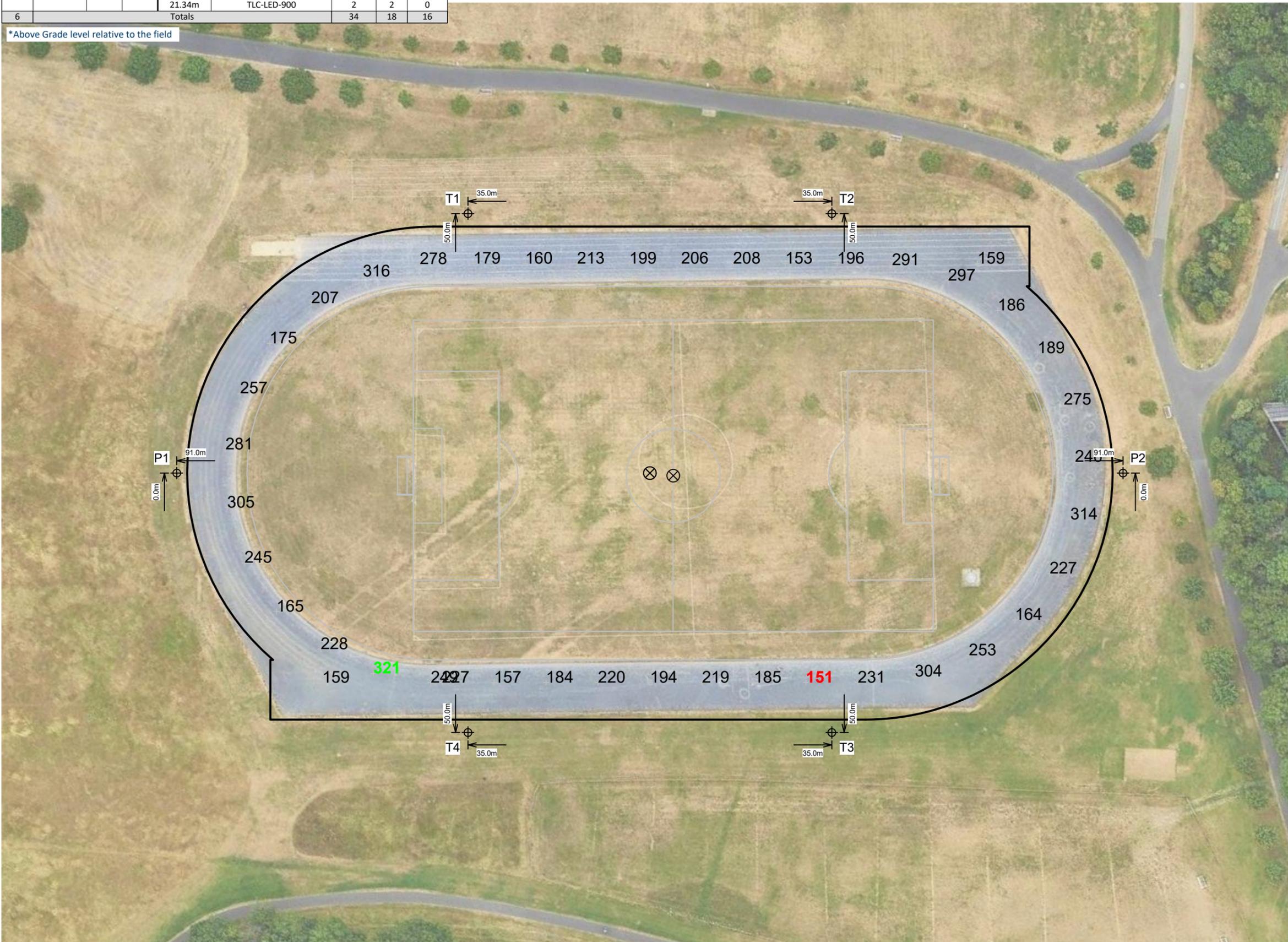
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Equipment List For Areas Shown

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	1	4
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	18	16

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	Track
Size	Irregular
Spacing	10.0m x 10.0m
Height	1.0m above grade

Illumination Summary	
	MAINTAINED HORIZONTAL LUX
Entire Grid	
Guaranteed Average	200
Scan Average	223.14
Maximum	321
Minimum	151
Guaranteed Min/Avg	0.6
Min/Avg	0.68
Min/Max	0.47
UG (adjacent pts)	0.00
CU	0.44
No. of Points	42
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	18
Total Load	17.58 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) ⊗



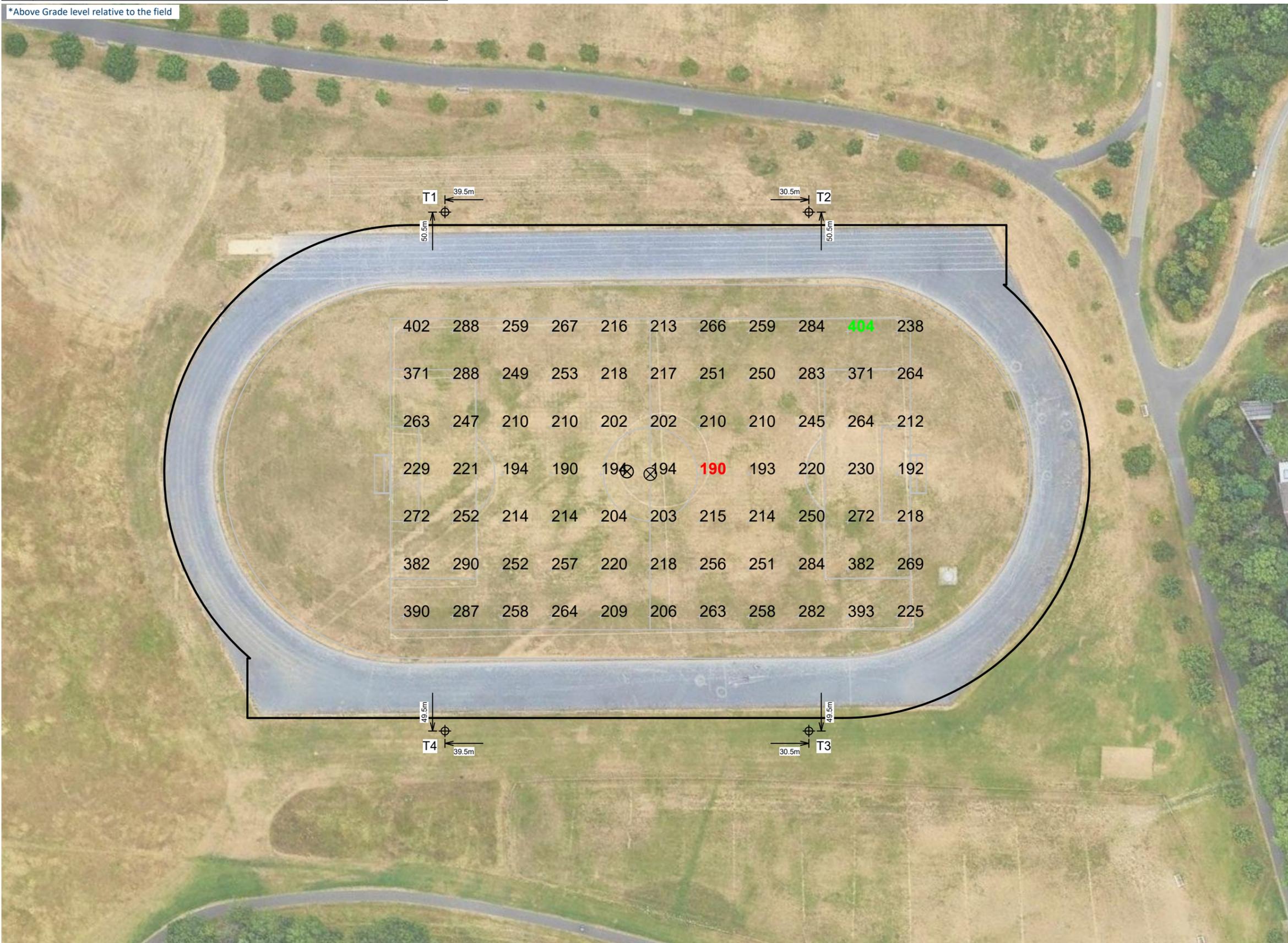
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	4	1
				21.34m	TLC-LED-900	2	0	2
4				Totals		28	16	12

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	Soccer
Size	100.0m x 60.0m
Spacing	9.5m x 9.2m
Height	1.0m above grade

Illumination Summary	
	MAINTAINED HORIZONTAL LUX
Entire Grid	
Scan Average	252.66
Maximum	404
Minimum	190
Min/Avg	0.75
Min/Max	0.47
UG (adjacent pts)	1.75
CU	0.69
No. of Points	77
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	16
Total Load	18.72 kW

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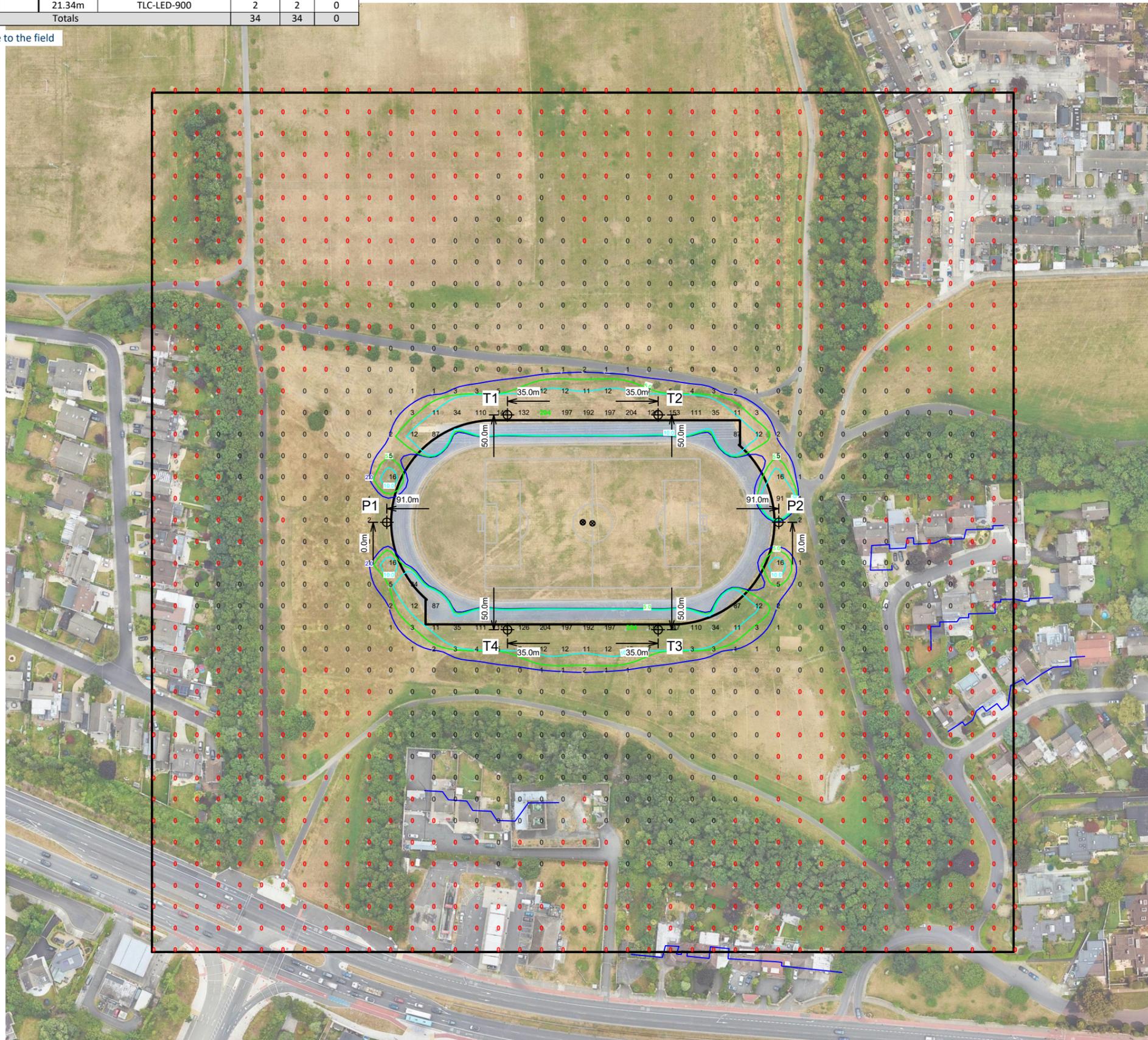
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary

Name	Blanket Grid
Size	400.0m x 400.0m
Spacing	10.0m x 10.0m
Height	1.0m above grade

Illumination Summary

	Entire Grid	MAINTAINED HORIZONTAL LUX
Scan Average	2.99	
Maximum	204	
Minimum	0	
Min/Avg	0.00	
Min/Max	0.00	
UG (adjacent pts)	403.14	
CU	0.08	
No. of Points	1532	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	34	
Total Load	36.30 kW	

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SCALE IN METERS 1 : 2000



ENGINEERED DESIGN By: C.Castaneda • File #234681E_A • 15-Jul-24

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



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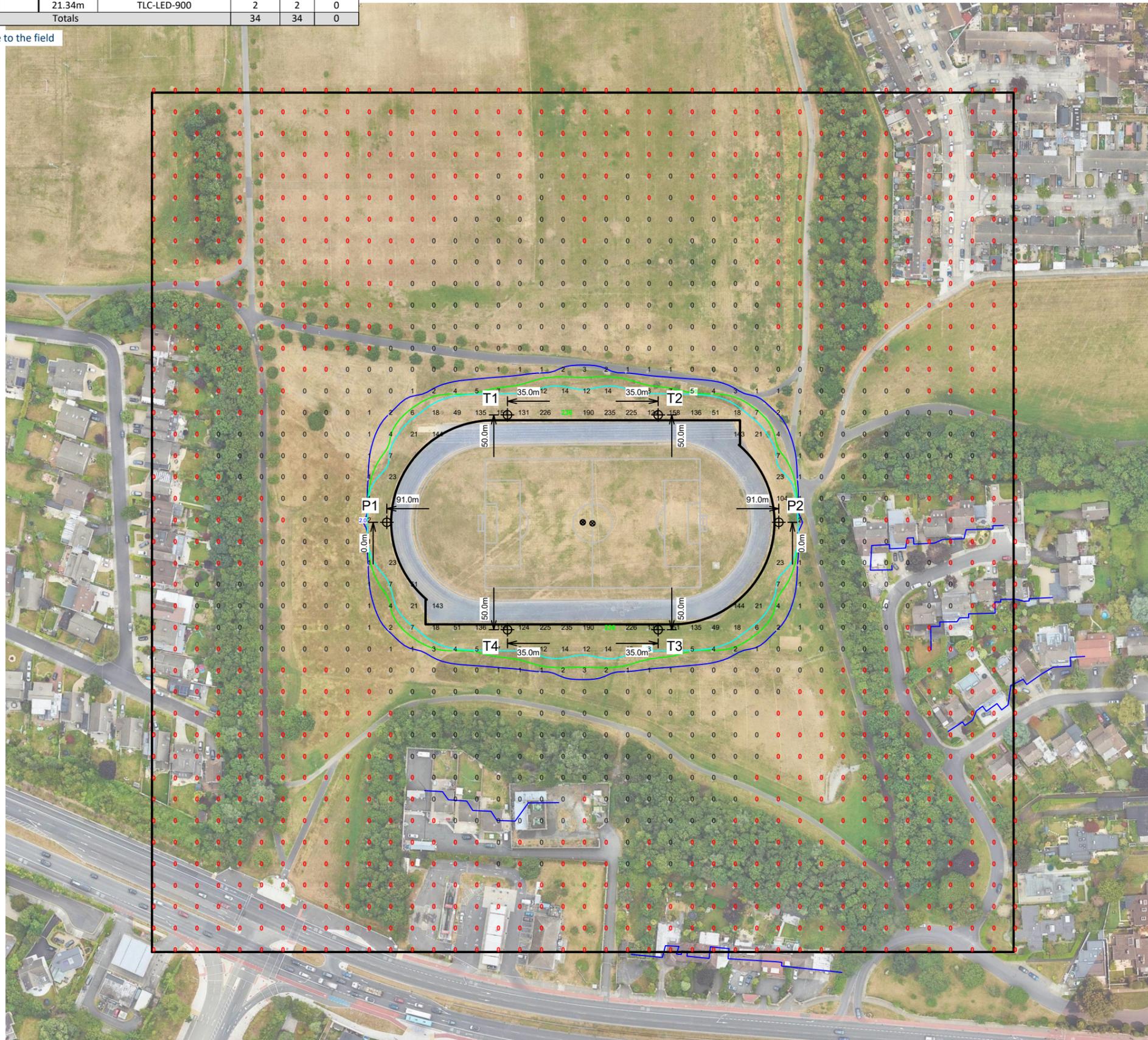
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



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

Cabinteely AC

Cabinteely, Leinster

Grid Summary

Name	Blanket Grid
Size	400.0m x 400.0m
Spacing	10.0m x 10.0m
Height	1.0m above grade

Illumination Summary

	Entire Grid	MAINTAINED MAX VERTICAL LUX
Scan Average	3.57	
Maximum	236	
Minimum	0	
Min/Avg	0.00	
Min/Max	0.00	
UG (adjacent pts)	160.41	
CU	0.08	
No. of Points	1532	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	34	
Total Load	36.30 kW	

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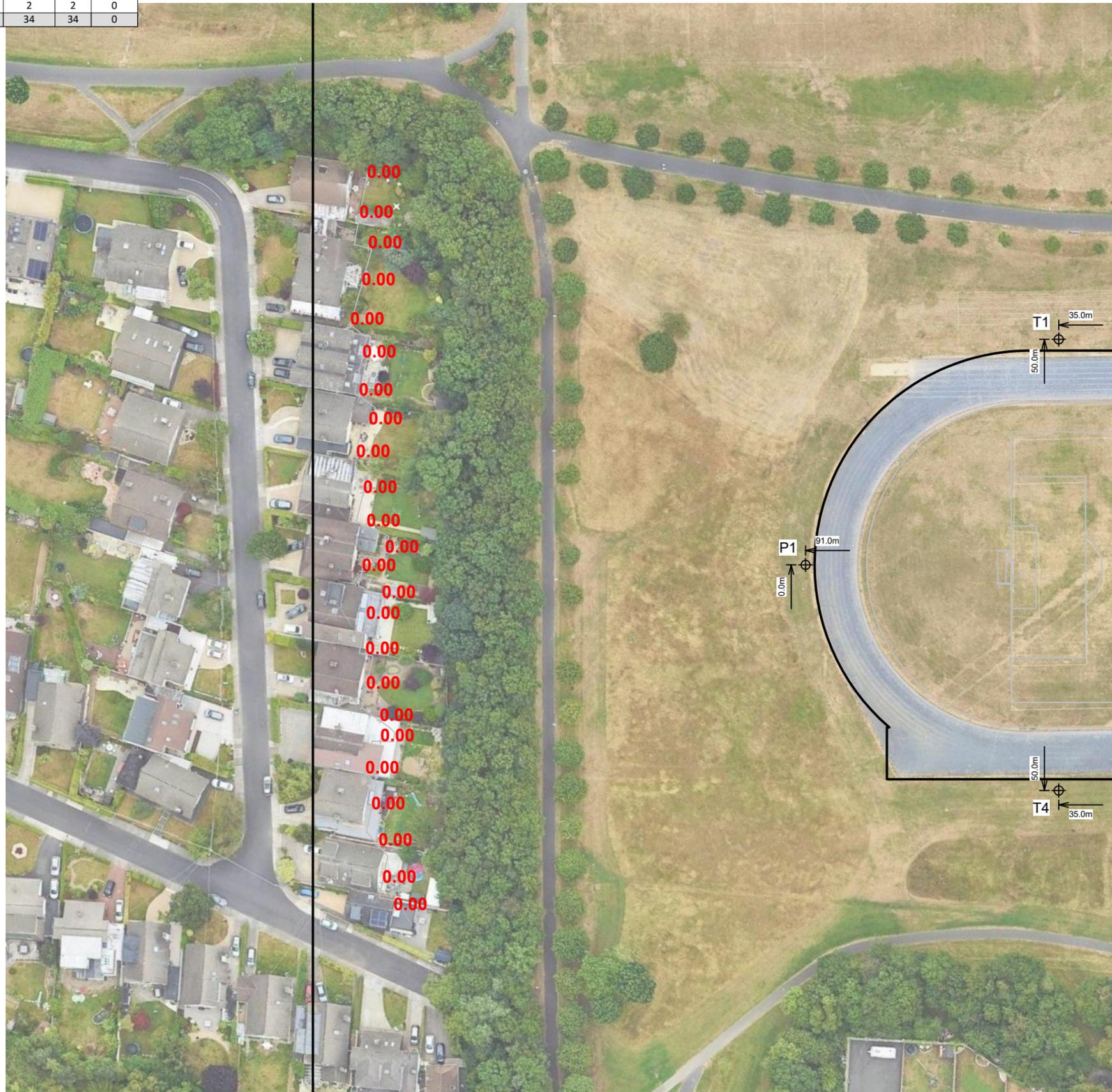
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	1. N LTW
Size	400.0m x 400.0m
Spacing	9.1m x 3.0m
Height	1.5m above grade

Illumination Summary	
	MAINTAINED MAX VERTICAL LUX
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Min/Avg	-
Min/Max	-
UG (adjacent pts)	0.00
No. of Points	24
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	34
Total Load	36.30 kW

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SCALE IN METERS 1 : 1000

ENGINEERED DESIGN By: C.Castaneda • File #234681E_A • 15-Jul-24

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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	1. W LTW
Size	400.0m x 400.0m
Spacing	9.1m x 3.0m
Height	1.5m above grade

Illumination Summary	
	MAINTAINED MAX VERTICAL LUX
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Min/Avg	-
Min/Max	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	8
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	34
Total Load	36.30 kW

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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary

Name	2. W LTW
Size	400.0m x 400.0m
Spacing	9.1m x 3.0m
Height	1.5m above grade

Illumination Summary

	MAINTAINED MAX VERTICAL LUX
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Min/Avg	-
Min/Max	-
UG (adjacent pts)	0.00
No. of Points	14
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	34
Total Load	36.30 kW

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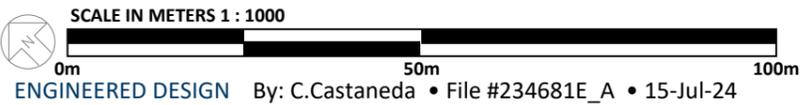
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



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

Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	2. S LTW
Size	400.0m x 400.0m
Spacing	9.1m x 3.0m
Height	1.5m above grade

Illumination Summary		MAINTAINED MAX VERTICAL LUX
		Entire Grid
Scan Average	0.00	
Maximum	0	
Minimum	0	
Min/Avg	-	
Min/Max	-	
UG (adjacent pts)	0.00	
No. of Points	9	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	34	
Total Load	36.30 kW	

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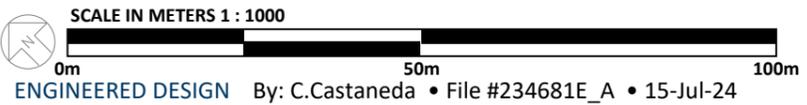
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



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Cabinteely AC

Cabinteely, Leinster

Grid Summary

Name	3. S LTW
Size	400.0m x 400.0m
Spacing	9.1m x 3.0m
Height	1.5m above grade

Illumination Summary

	ENTIRE GRID	MAINTAINED MAX VERTICAL LUX
Scan Average	0.00	
Maximum	0	
Minimum	0	
Min/Avg	-	
Min/Max	-	
UG (adjacent pts)	0.00	
No. of Points	10	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	34	
Total Load	36.30 kW	

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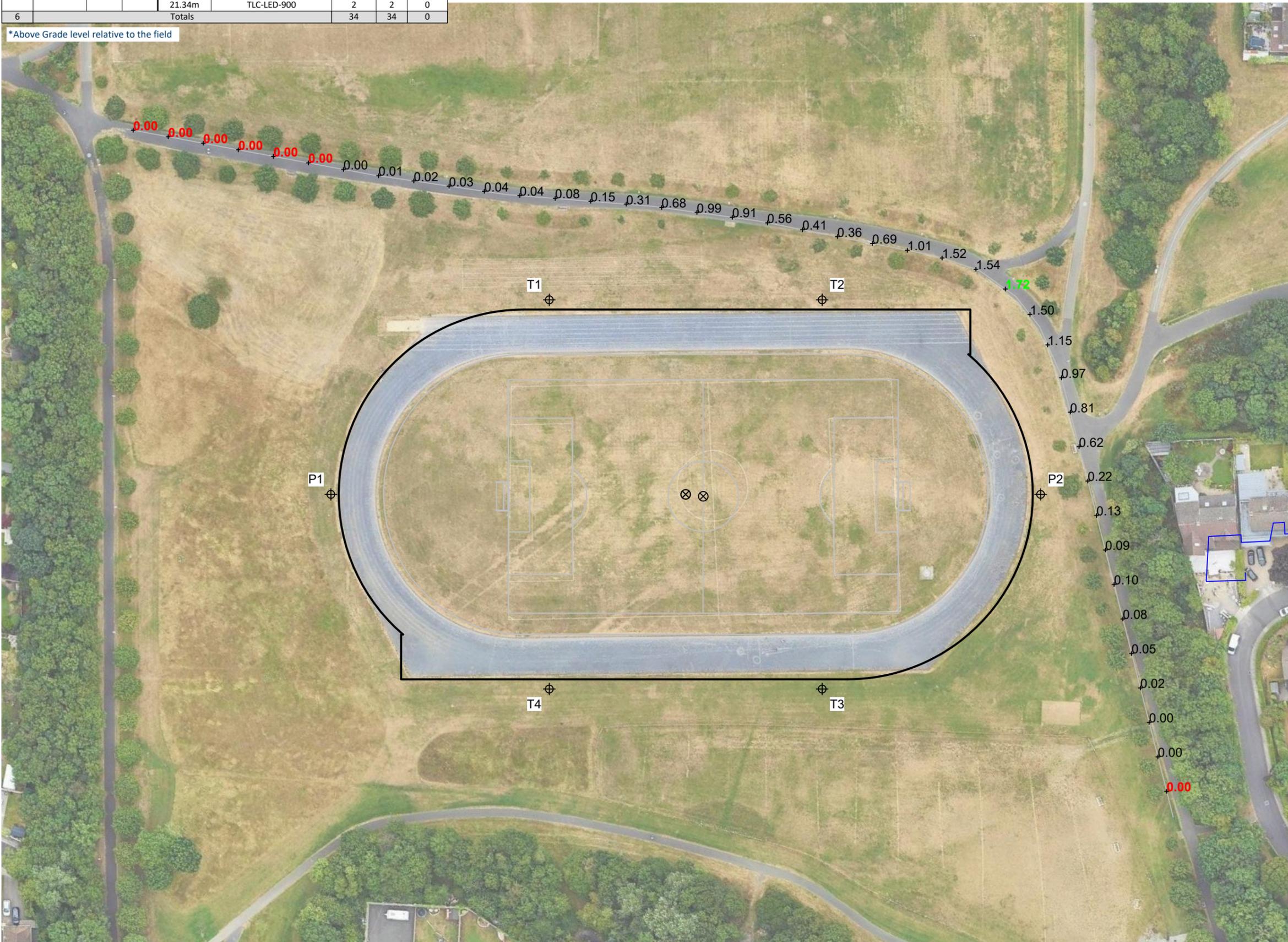
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary

Name	Path Spill
Spacing	9.1m x 3.0m
Height	1.0m above grade

Illumination Summary

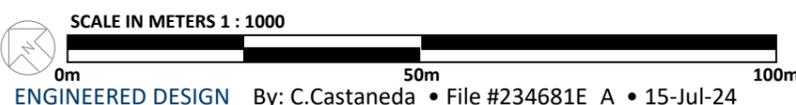
	MAINTAINED HORIZONTAL LUX
Entire Grid	
Scan Average	0.41
Maximum	2
Minimum	0
Min/Avg	0.00
Min/Max	0.00
UG (adjacent pts)	0.00
CU	0.00
No. of Points	41
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	34
Total Load	36.30 kW

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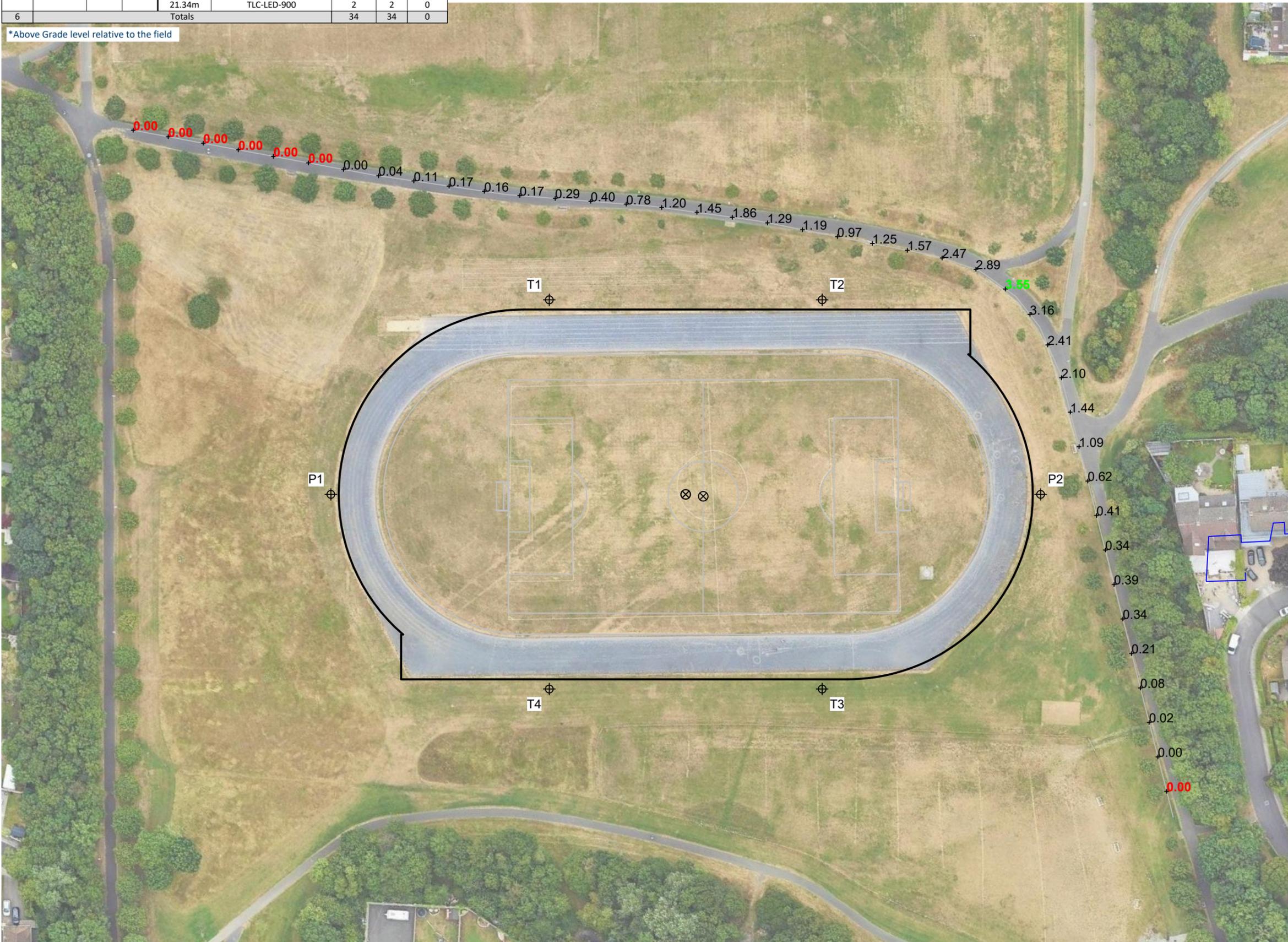
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2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1	1	0
				18.29m	TLC-LED-900	2	2	0
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5	5	0
				21.34m	TLC-LED-900	2	2	0
6	Totals					34	34	0

*Above Grade level relative to the field



Cabinteely AC

Cabinteely, Leinster

Grid Summary	
Name	Path Spill
Spacing	9.1m x 3.0m
Height	1.0m above grade

Illumination Summary		MAINTAINED MAX VERTICAL LUX
Scan Average	0.84	
Maximum	4	
Minimum	0	
Min/Avg	0.00	
Min/Max	0.00	
UG (adjacent pts)	0.00	
CU	0.00	
No. of Points	41	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	34	
Total Load	36.30 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

Cabinteely AC

Cabinteely, Leinster

Equipment Layout

INCLUDES:
 · Blanket Grid
 · Soccer
 · 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

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
2	P1-P2	18.29m	-	18.29m	TLC-LED-1200	1
				18.29m	TLC-LED-900	2
4	T1-T4	21.34m	-	21.34m	TLC-LED-1200	5
				21.34m	TLC-LED-900	2
6	Totals					34

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-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



SCALE IN METERS 1 : 2500



ENGINEERED DESIGN By: C.Castaneda • File #234681E_A • 15-Jul-24

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



We Make It Happen.

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EQUIPMENT LAYOUT