

Hyde Park Tennis

London,London

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Group
T1	9.9	9.9	3	TLC-LED-400	1.20 kW	D
T2	9.9	9.9	4	TLC-LED-400	1.60 kW	A
		9.9	4	TLC-LED-400	1.60 kW	A
T3	9.9	9.9	4	TLC-LED-400	1.60 kW	B
		9.9	4	TLC-LED-400	1.60 kW	B
T4-T5	9.9	9.9	4	TLC-LED-400	1.60 kW	C
		9.9	4	TLC-LED-400	1.60 kW	C
T6	9.9	9.9	4	TLC-LED-400	1.60 kW	B
		9.9	4	TLC-LED-400	1.60 kW	B
T7	9.9	9.9	4	TLC-LED-400	1.60 kW	B
		9.9	4	TLC-LED-400	1.60 kW	A
T8	9.9	9.9	4	TLC-LED-400	1.60 kW	A
		9.9	3	TLC-LED-400	1.20 kW	D
T9	9.9	9.9	2	TLC-LED-400	0.80 kW	D
		9.9	2	TLC-LED-400	0.80 kW	E
T10	9.9	9.9	2	TLC-LED-400	0.80 kW	D
T11	9.9	9.9	2	TLC-LED-400	0.80 kW	E
11			62		24.80 kW	

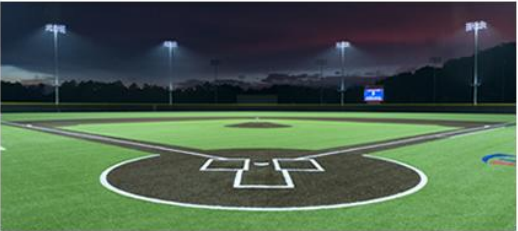
Group Summary					
Group	Description	Avg Load	Max Load	Fixture Qty	
A	Courts 1-2	6.4 kW	6.4 kW	16	
B	Courts 3-4	6.4 kW	6.4 kW	16	
C	Courts 5-6	6.4 kW	6.4 kW	16	
D	MUGA	4.0 kW	4.0 kW	10	
E	Paddle Ball	1.6 kW	1.6 kW	4	

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-400	LED 5700K - 75 CRI	400W	38,600	61,000	>72,000	>72,000	62

Light Level Summary

Calculation Grid Summary							
Grid Name	Calculation Metric	Illumination				Groups	Fixture Qty
		Ave	Min	Max	Min/Max		
Court 1 - PPA	Horizontal	412	342	482	0.71	A	16
Court 1 - TPA	Horizontal	374	265	528	0.50	A	16
Court 2 - PPA	Horizontal	413	314	522	0.60	A	16
Court 2 - TPA	Horizontal	383	247	507	0.49	A	16
Court 3 - PPA	Horizontal	409	306	515	0.59	B	16
Court 3 - TPA	Horizontal	373	224	523	0.43	B	16
Court 4 - PPA	Horizontal	420	333	506	0.66	B	16
Court 4 - TPA	Horizontal	378	245	513	0.48	B	16
Court 5 - PPA	Horizontal	429	306	591	0.52	C	16
Court 5 - TPA	Horizontal	392	249	562	0.44	C	16
Court 6 - PPA	Horizontal	402	333	479	0.69	C	16
Court 6 - TPA	Horizontal	355	234	455	0.51	C	16
MUGA - PPA	Horizontal	415	327	578	0.57	D	10
MUGA - TPA	Horizontal	389	260	560	0.46	D	10
Paddle Ball Court	Horizontal	319	236	403	0.59	E	4
Tennis Spill	Horizontal Illuminance	72.2	0	1002	0.00	A,B,C,D,E	62
Tennis Spill	True Max Vert Illuminance	75.6	0	1262	0.00	A,B,C,D,E	62

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	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	4	3
2	T2, T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					30	16	14

Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Court 1 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	400			
Scan Average:	412.09			
Maximum:	482			
Minimum:	342			
Guaranteed Min / Avg:	0.7			
Min / Avg:	0.83			
Min / Max:	0.71			
UG (adjacent pts):	1.41			
CU:	0.36			
No. of Points:	15			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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.

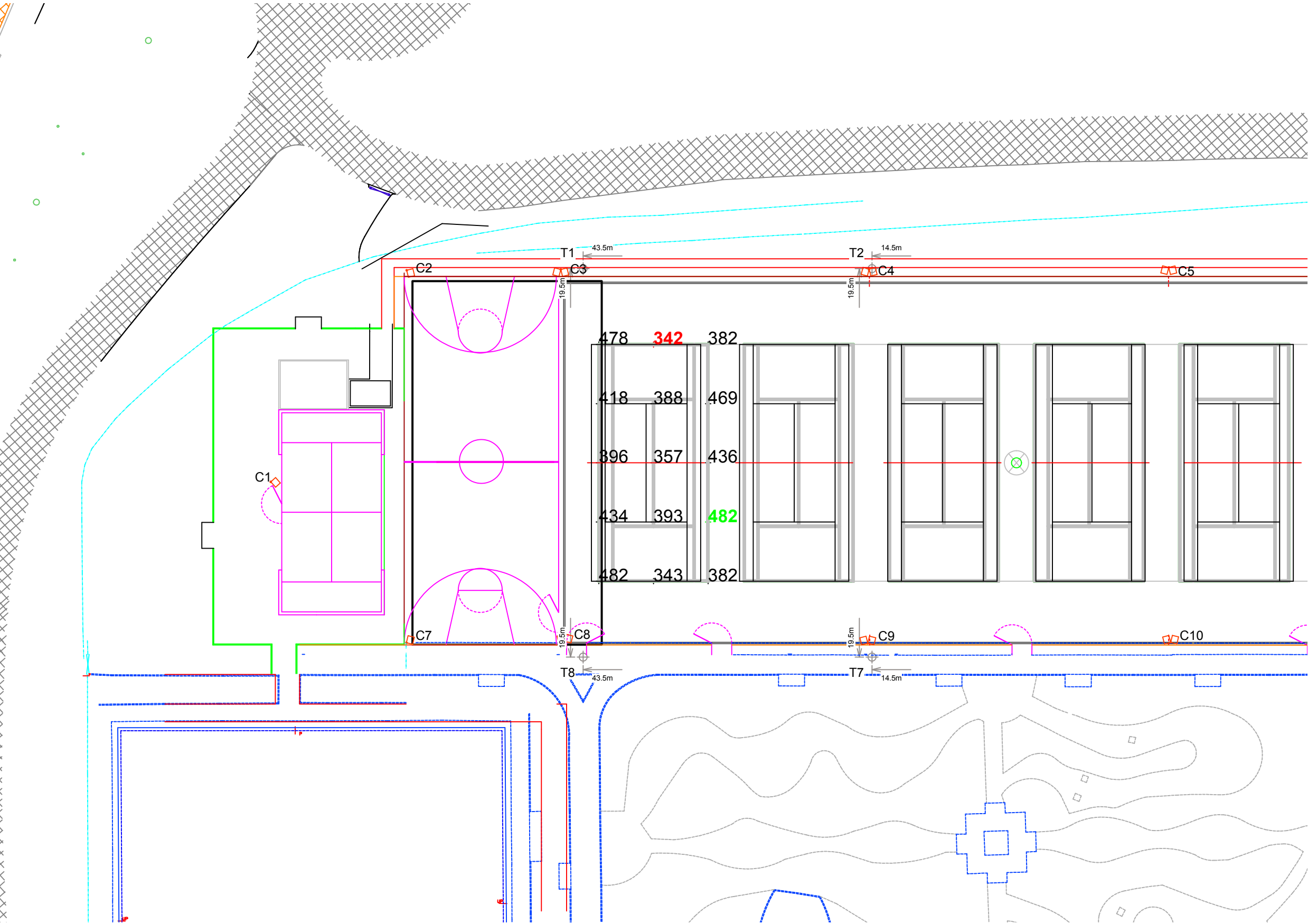
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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



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Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	4	3
2	T2, T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					30	16	14

Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Court 2 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

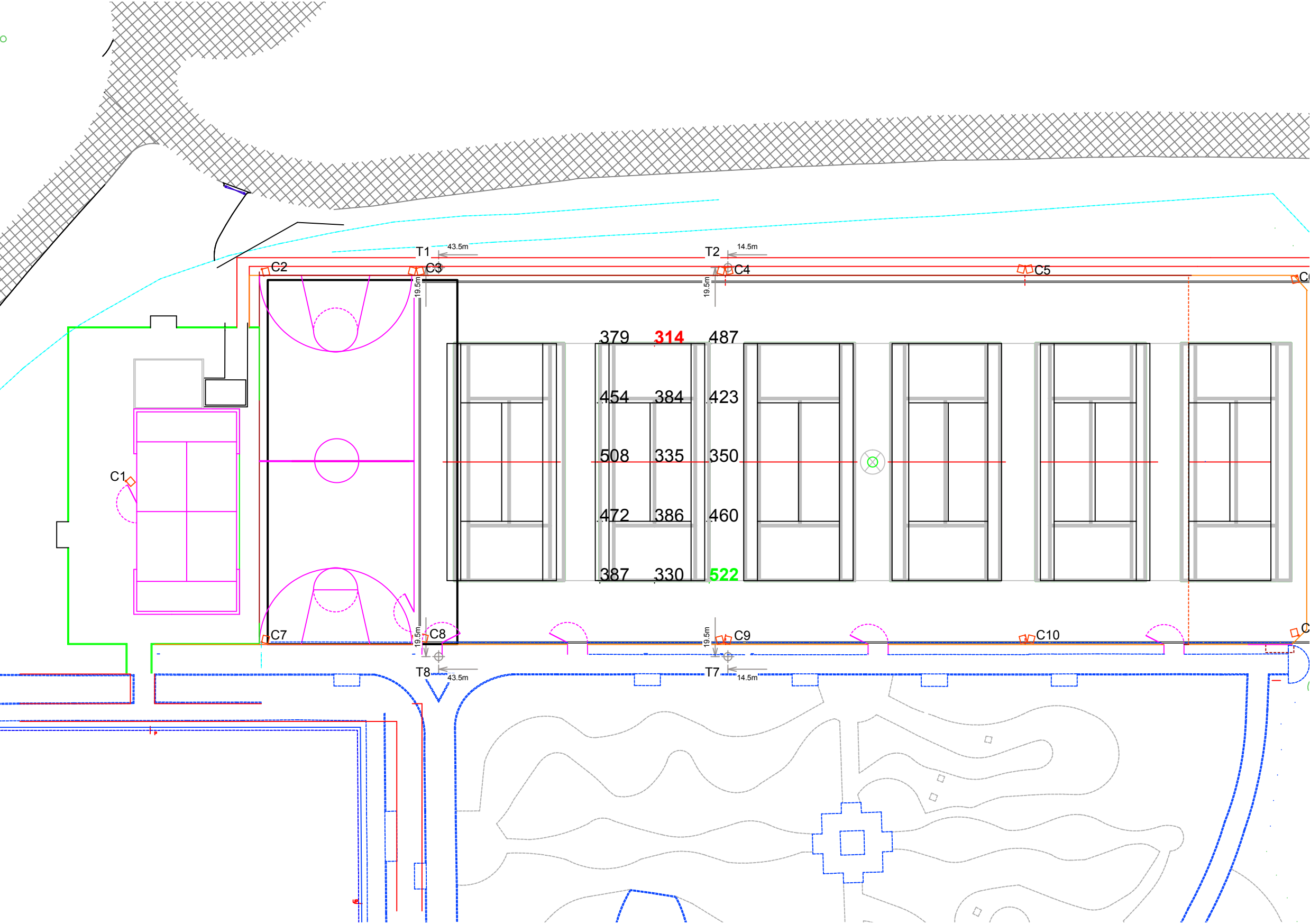
ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	400			
Scan Average:	412.60			
Maximum:	522			
Minimum:	314			
Guaranteed Min / Avg:	0.7			
Min / Avg:	0.76			
Min / Max:	0.60			
UG (adjacent pts):	1.59			
CU:	0.36			
No. of Points:	15			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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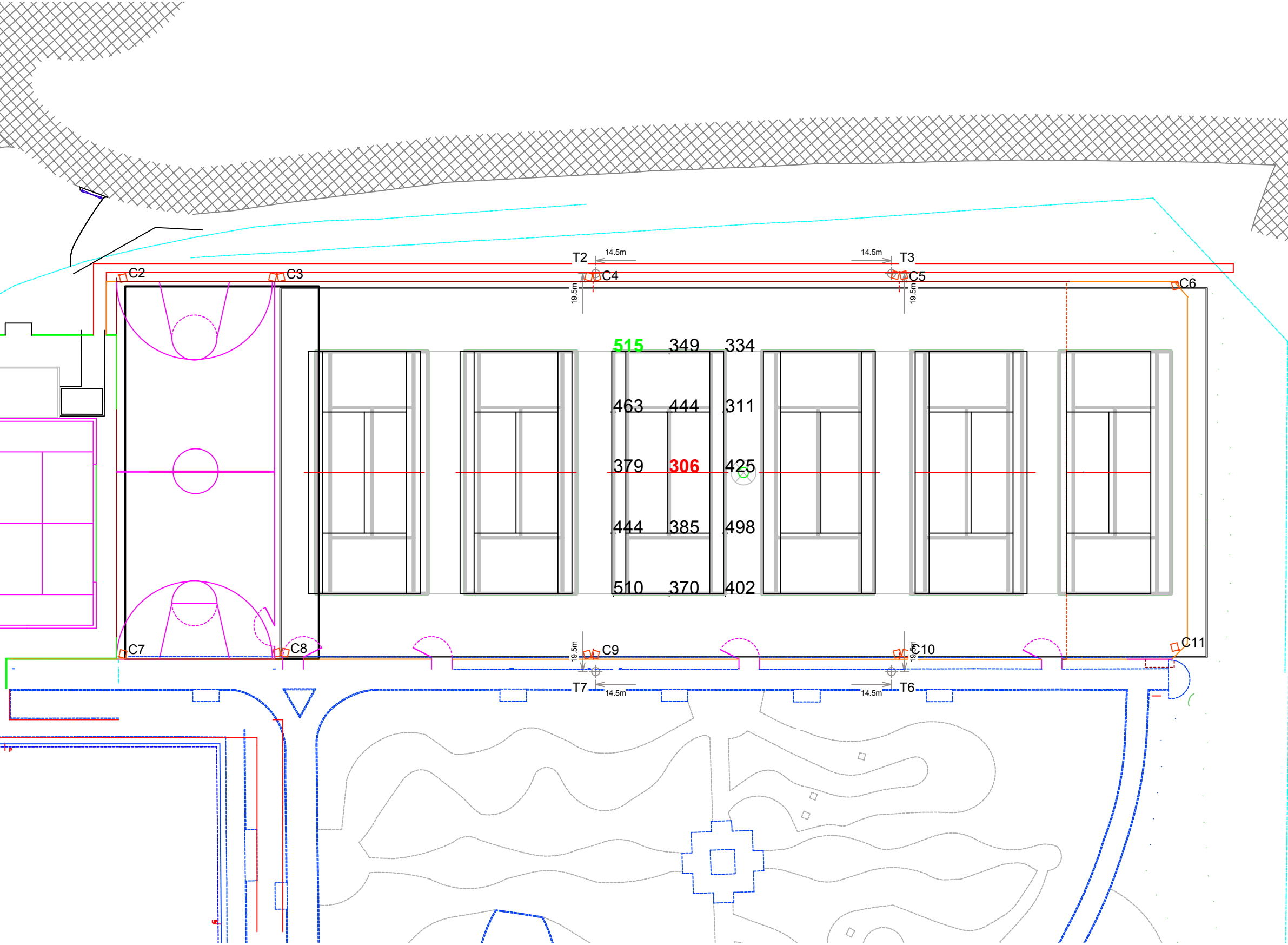
Pole location(s) ⚓ dimensions are relative to 0,0 reference point(s) ⊗



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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	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					32	16	16



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	Court 3 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	400			
Scan Average:	409.00			
Maximum:	515			
Minimum:	306			
Guaranteed Min / Avg:	0.7			
Min / Avg:	0.75			
Min / Max:	0.59			
UG (adjacent pts):	1.47			
CU:	0.35			
No. of Points:	15			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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



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ILLUMINATION SUMMARY

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					32	16	16

Hyde Park Tennis
London, London

GRID SUMMARY	
Name:	Court 4 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

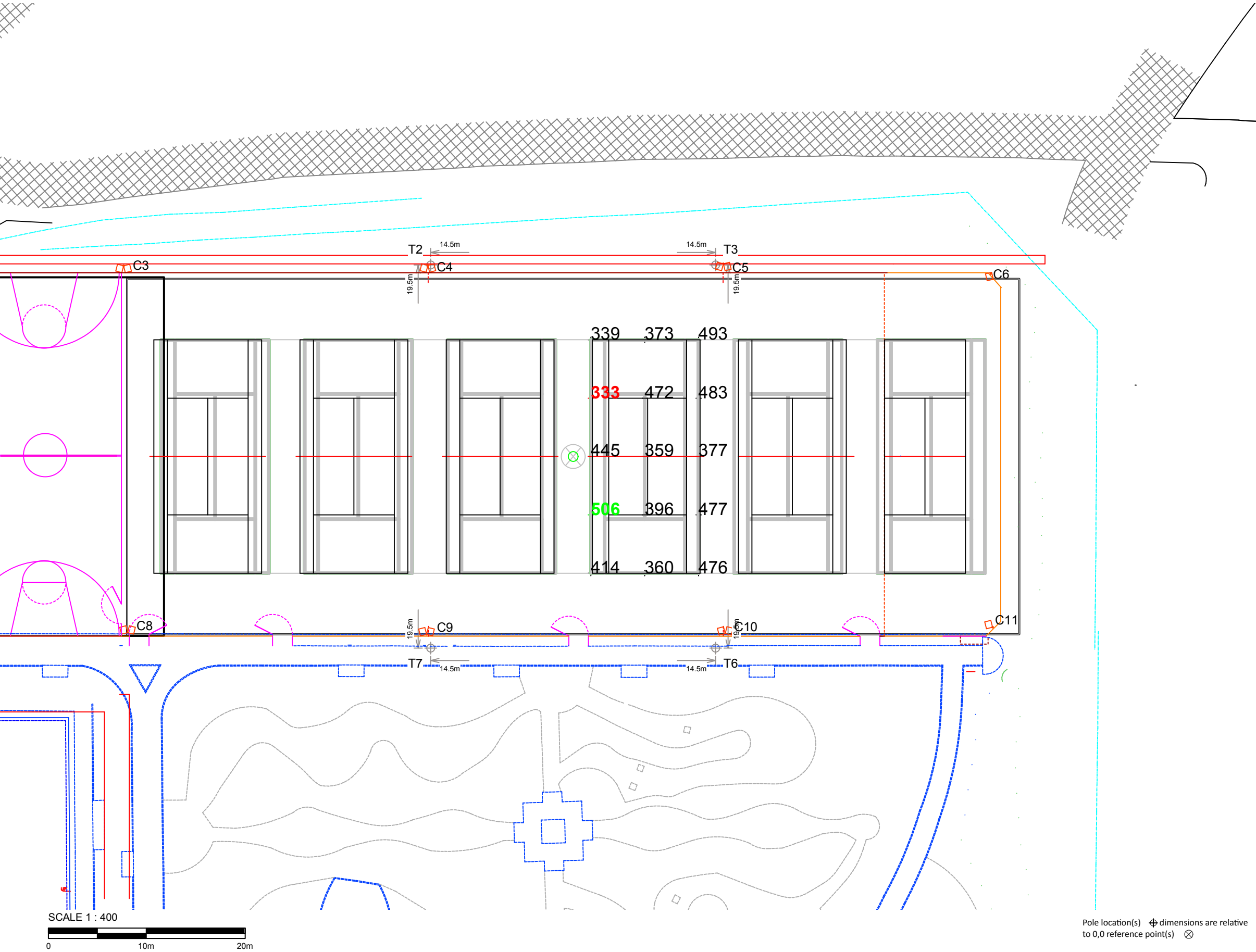
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	400		
Scan Average:	420.16		
Maximum:	506		
Minimum:	333		
Guaranteed Min / Avg:	0.7		
Min / Avg:	0.79		
Min / Max:	0.66		
UG (adjacent pts):	1.42		
CU:	0.36		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.950		
No. of Luminaires:	16		
Total Load:	6.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
Reported per TM-21-11. See luminaire datasheet for details.			

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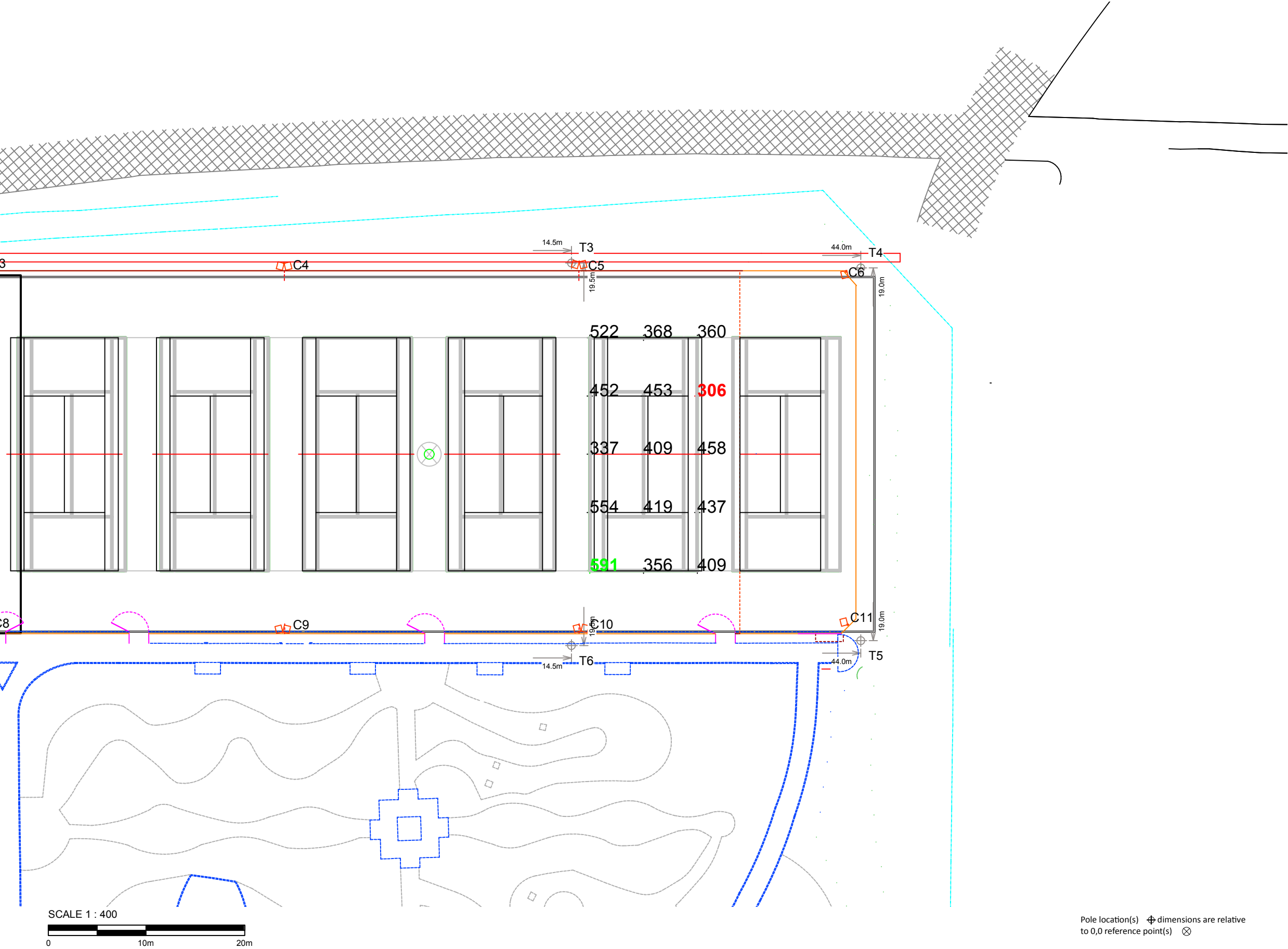
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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T3, T6	9.88m	-	9.88m	TLC-LED-400	8	4	4
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
4	TOTALS					24	16	8



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	Court 5 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	400		
Scan Average:	428.67		
Maximum:	591		
Minimum:	306		
Guaranteed Min / Avg:	0.7		
Min / Avg:	0.71		
Min / Max:	0.52		
UG (adjacent pts):	1.66		
CU:	0.37		
No. of Points:	15		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.950		
No. of Luminaires:	16		
Total Load:	6.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
Reported per TM-21-11. See luminaire datasheet for details.			

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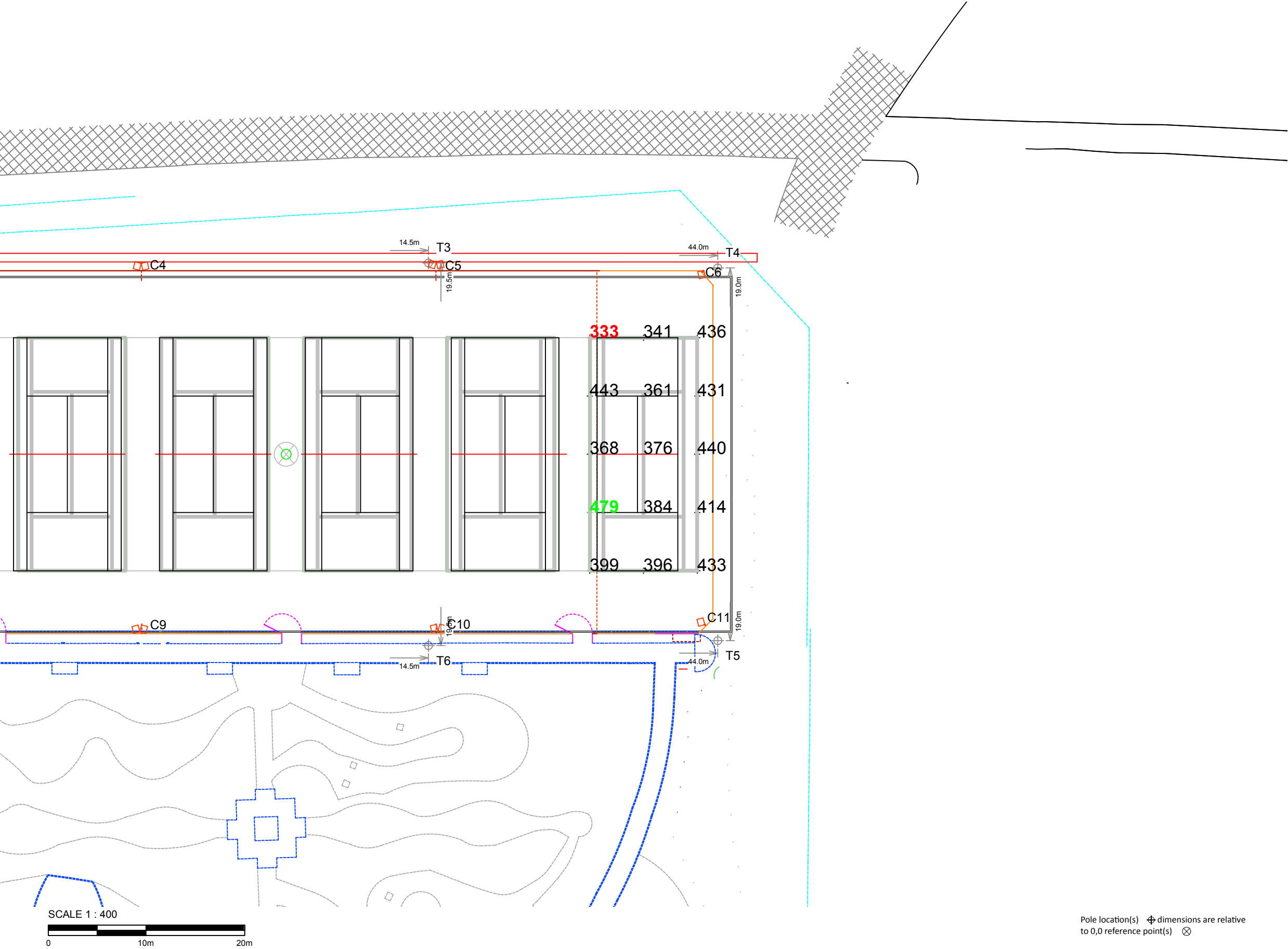
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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T3, T6	9.88m	-	9.88m	TLC-LED-400	8	4	4
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
4	TOTALS					24	16	8



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	Court 6 - PPA
Size:	6 Court - 3.6m Spacing
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	400			
Scan Average:	402.24			
Maximum:	479			
Minimum:	333			
Guaranteed Min / Avg:	0.7			
Min / Avg:	0.83			
Min / Max:	0.69			
UG (adjacent pts):	1.33			
CU:	0.35			
No. of Points:	15			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	4	3
2	T2, T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					30	16	14

Hyde Park Tennis
London, London

GRID SUMMARY	
Name:	Court 1 - TPA
Size:	6 Court - 3.6m Spacing
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

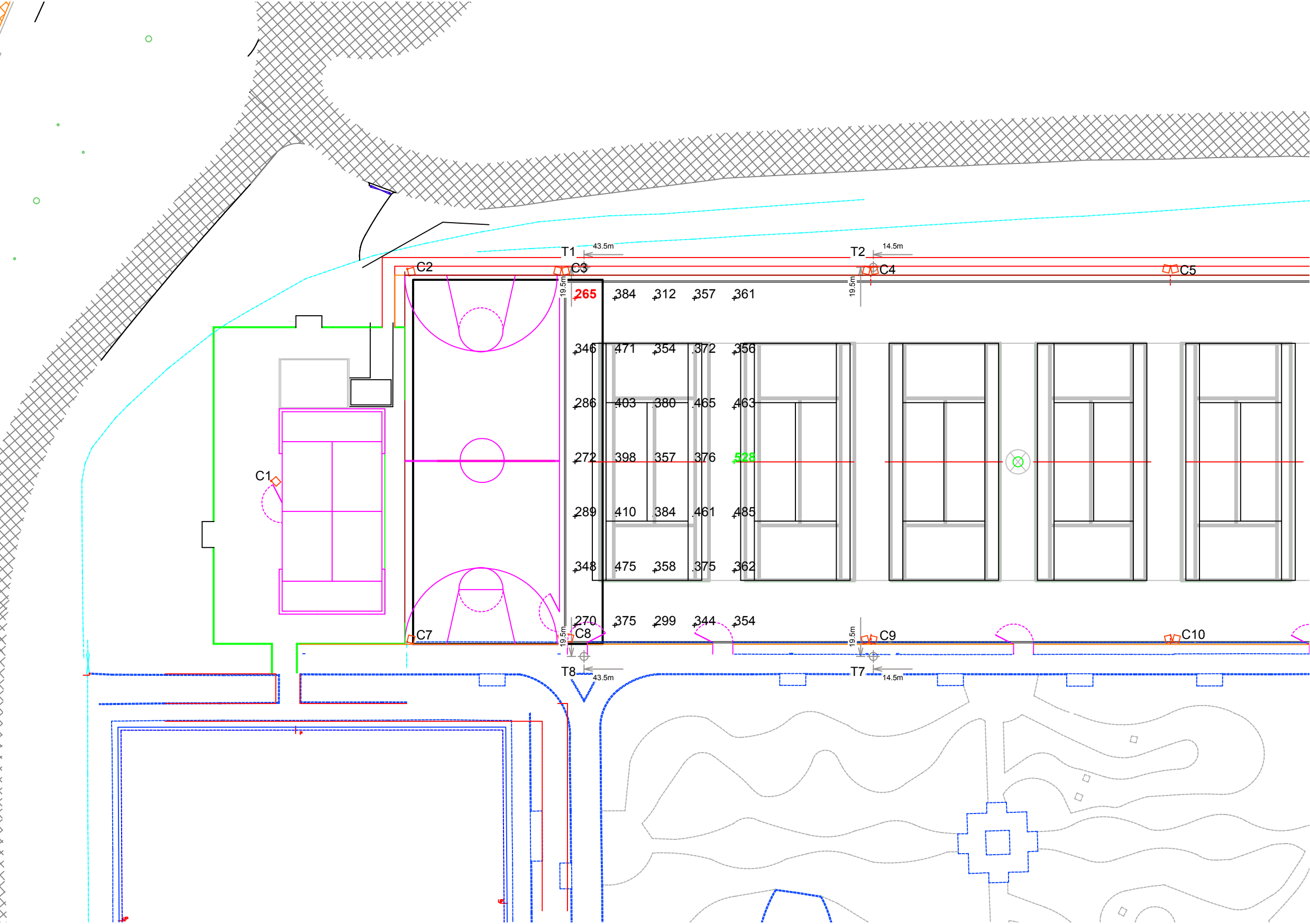
ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	300			
Scan Average:	374.18			
Maximum:	528			
Minimum:	265			
Guaranteed Min / Avg:	0.6			
Min / Avg:	0.71			
Min / Max:	0.50			
UG (adjacent pts):	1.46			
CU:	0.51			
No. of Points:	35			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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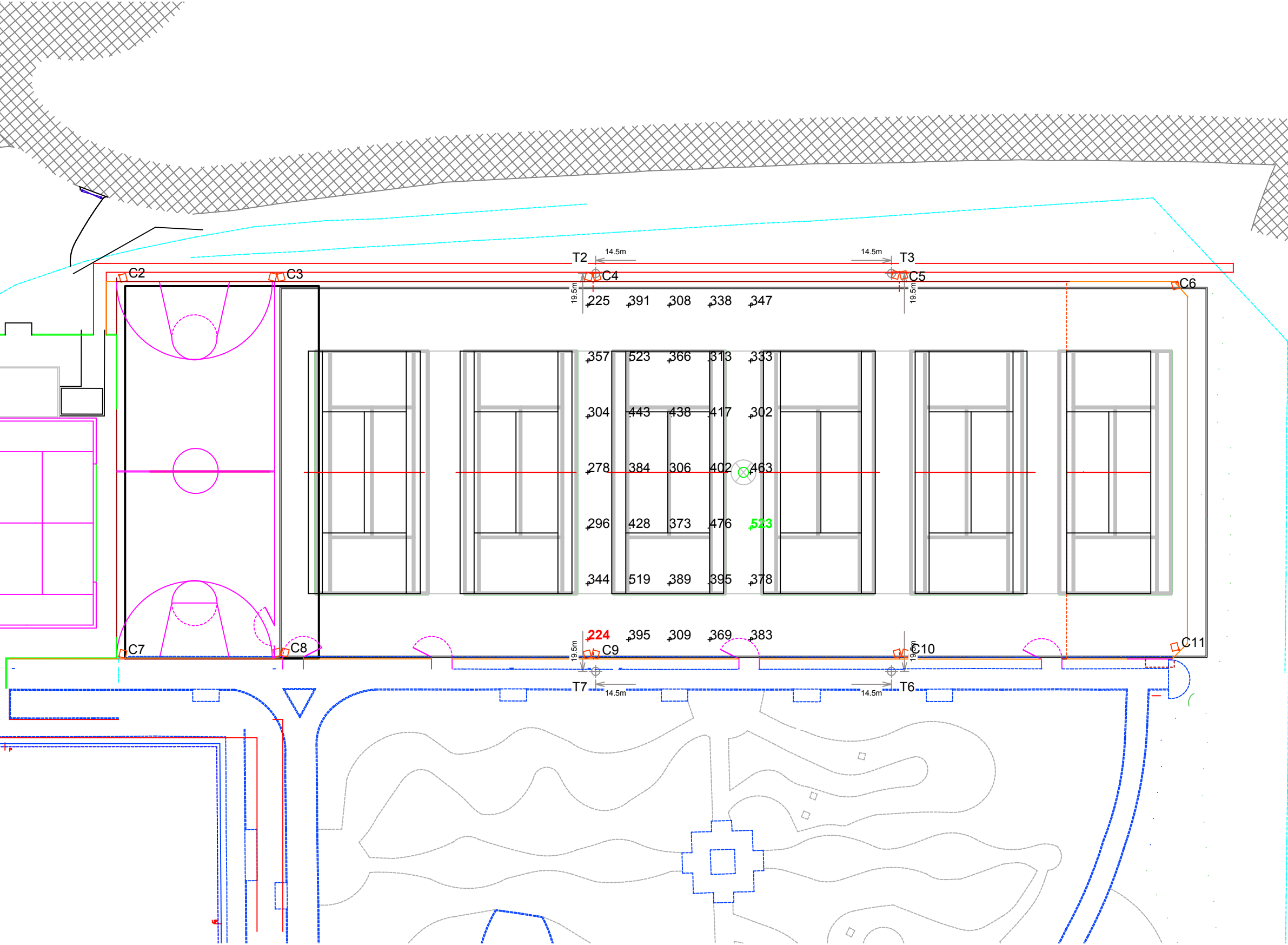
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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					32	16	16



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	Court 3 - TPA
Size:	6 Court - 3.6m Spacing
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	300			
Scan Average:	372.58			
Maximum:	523			
Minimum:	224			
Guaranteed Min / Avg:	0.6			
Min / Avg:	0.60			
Min / Max:	0.43			
UG (adjacent pts):	1.76			
CU:	0.50			
No. of Points:	35			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
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QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	4	4
4	TOTALS					32	16	16

Hyde Park Tennis

London, London

GRID SUMMARY	
Name:	Court 4 - TPA
Size:	6 Court - 3.6m Spacing
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

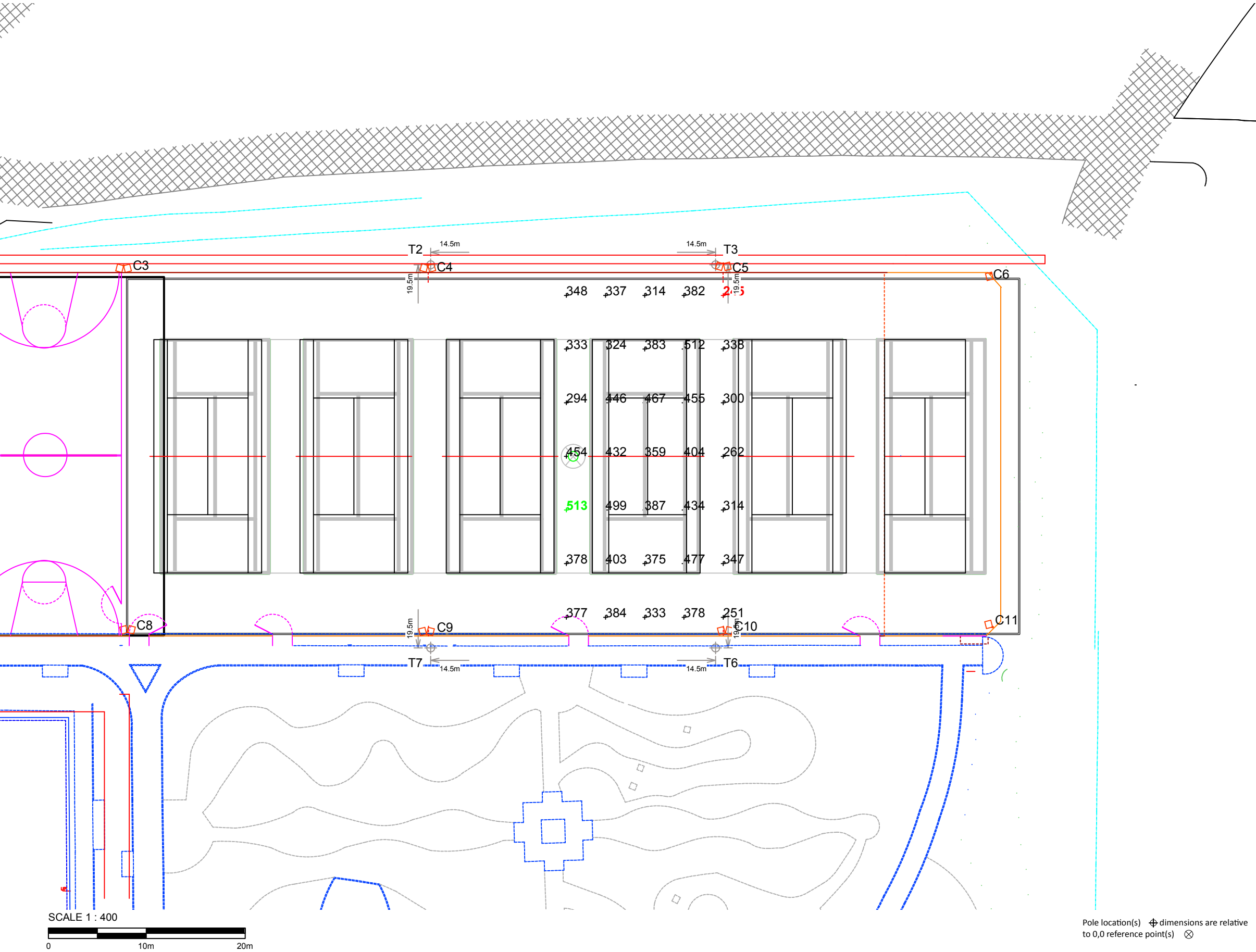
ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	300		
Scan Average:	378.23		
Maximum:	513		
Minimum:	245		
Guaranteed Min / Avg:	0.6		
Min / Avg:	0.65		
Min / Max:	0.48		
UG (adjacent pts):	1.56		
CU:	0.51		
No. of Points:	35		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.950		
No. of Luminaires:	16		
Total Load:	6.4 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
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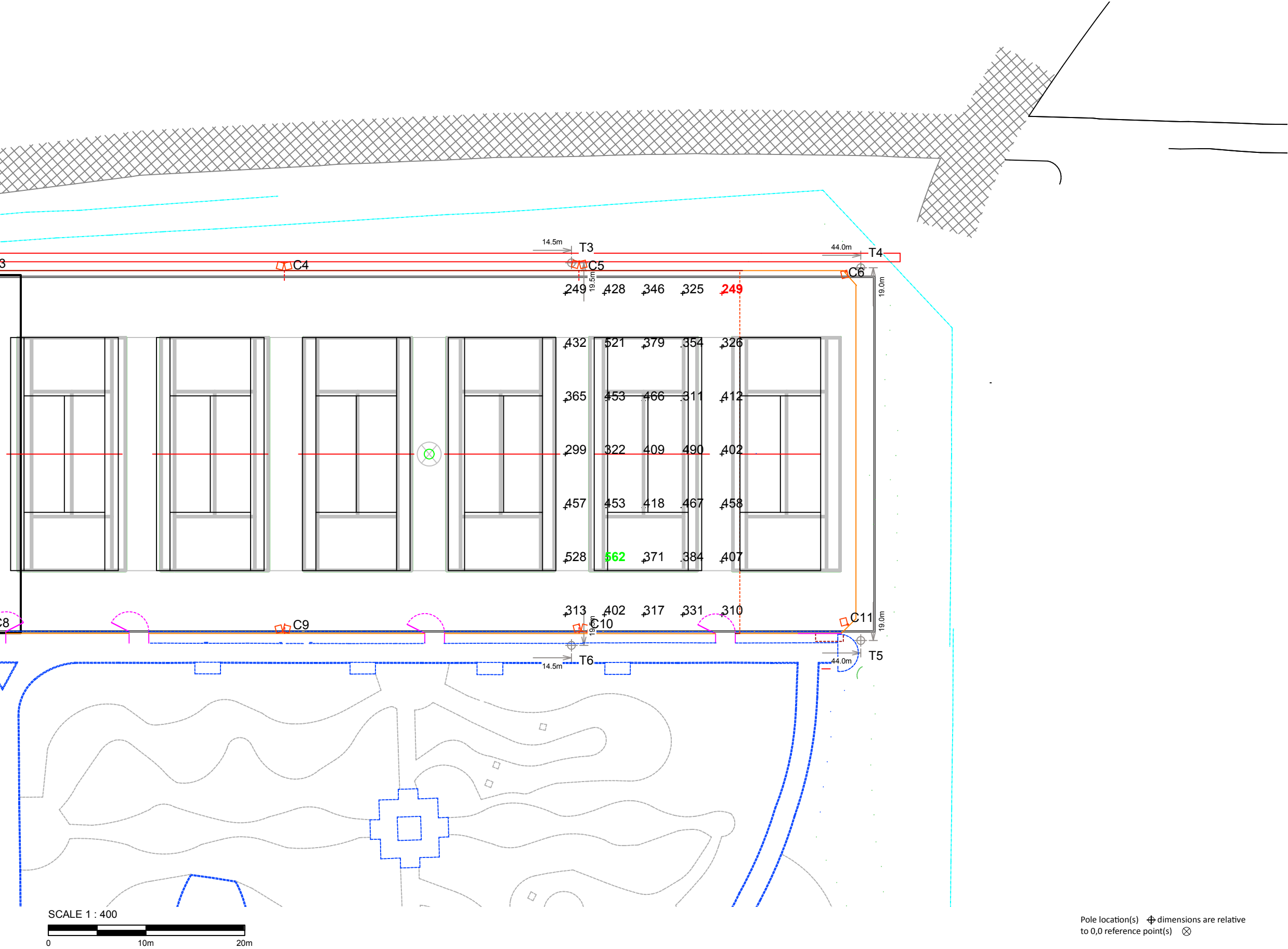
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EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	T3, T6	9.88m	-	9.88m	TLC-LED-400	8	4	4
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
4	TOTALS					24	16	8



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	Court 5 - TPA
Size:	6 Court - 3.6m Spacing
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	300			
Scan Average:	391.89			
Maximum:	562			
Minimum:	249			
Guaranteed Min / Avg:	0.6			
Min / Avg:	0.63			
Min / Max:	0.44			
UG (adjacent pts):	1.73			
CU:	0.53			
No. of Points:	35			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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.

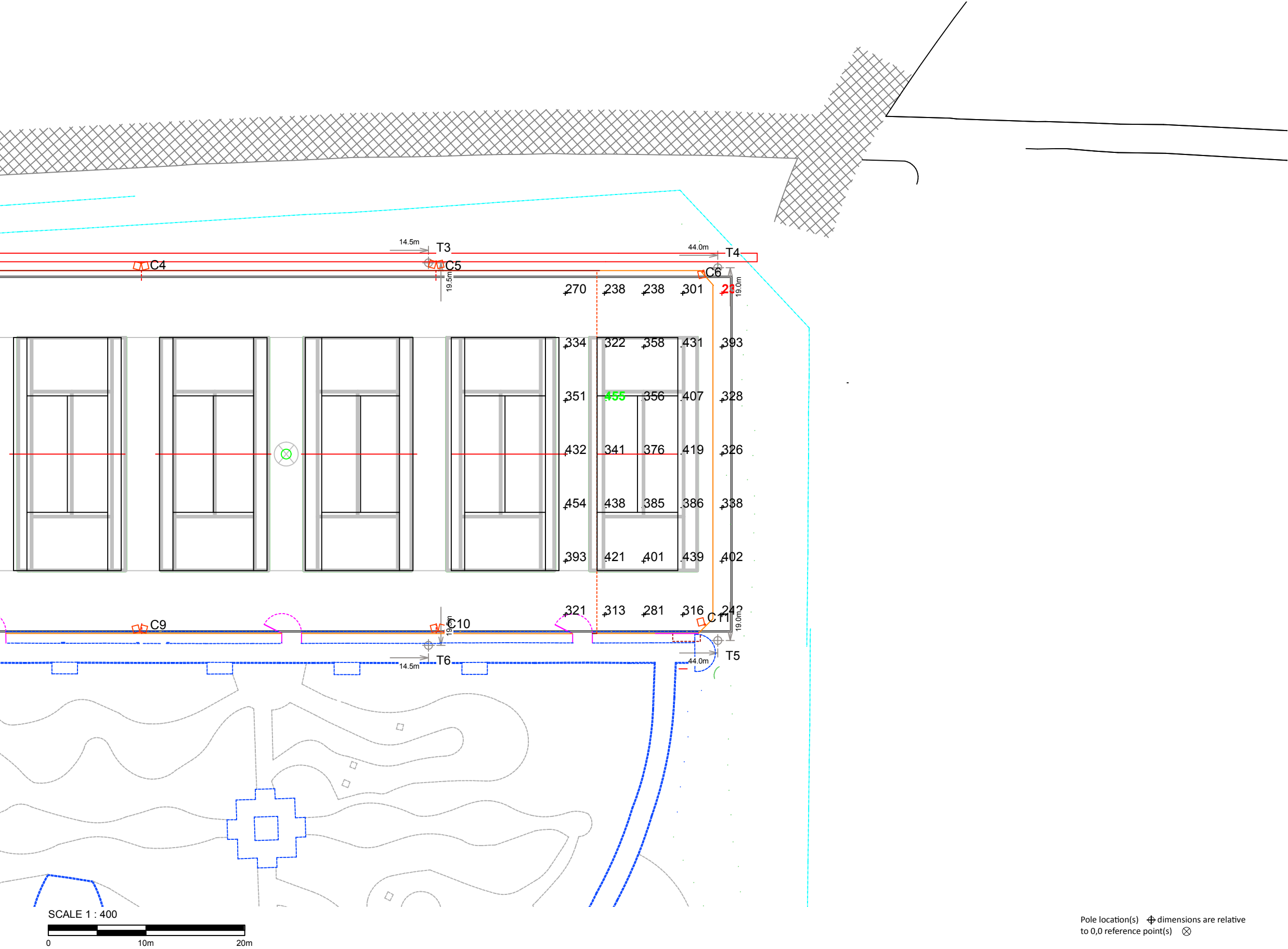
Installation Requirements: Results assume $\pm 3\%$ nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	OTHER GRIDS
2	T3, T6	9.88m	-	9.88m	TLC-LED-400	8	4	4
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
4	TOTALS					24	16	8



Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Court 6 - TPA
Size:	6 Court - 3.6m Spacing
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	300			
Scan Average:	355.46			
Maximum:	455			
Minimum:	234			
Guaranteed Min / Avg:	0.6			
Min / Avg:	0.66			
Min / Max:	0.51			
UG (adjacent pts):	1.68			
CU:	0.48			
No. of Points:	35			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	16			
Total Load:	6.4 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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.

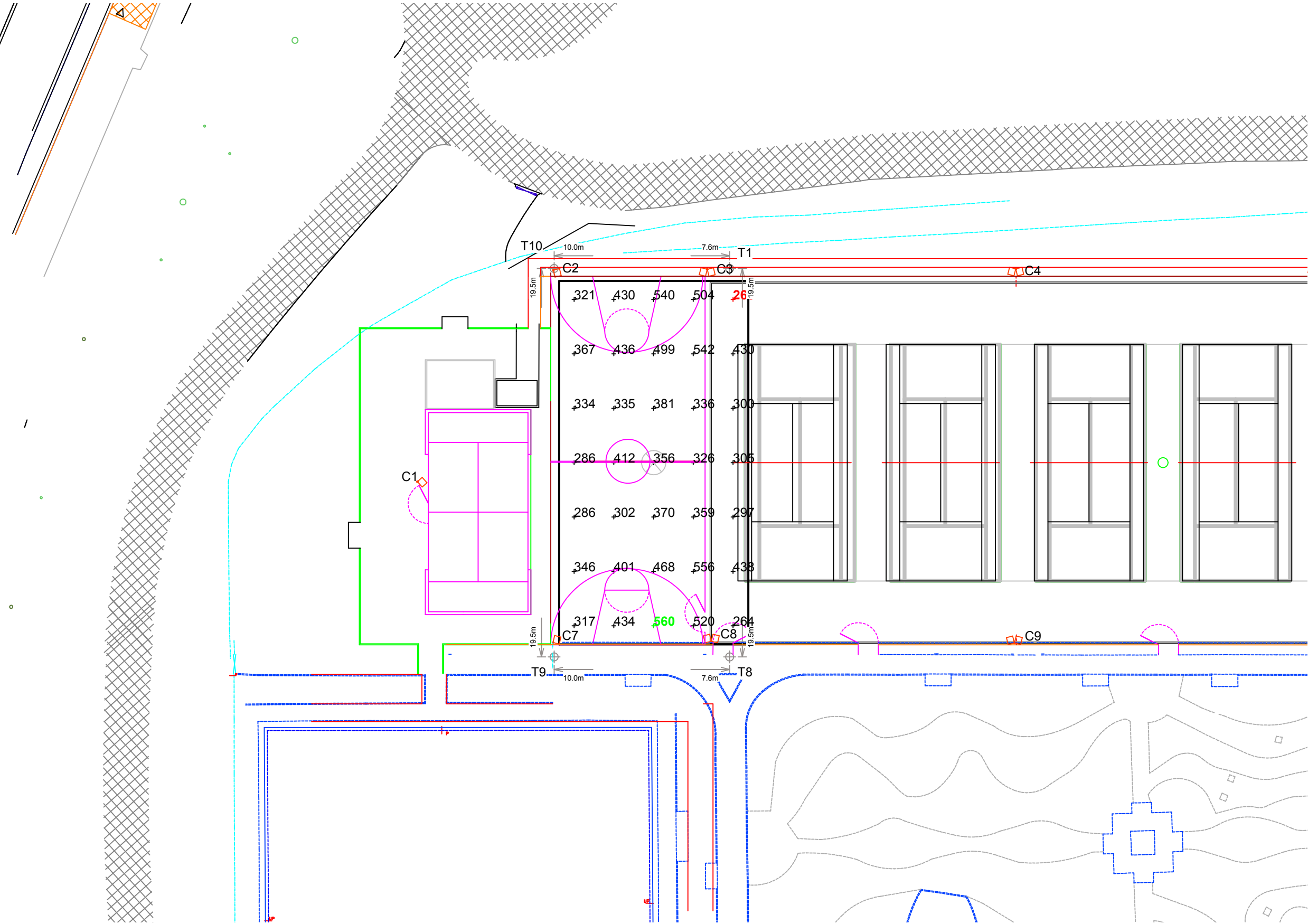
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	3	4
1	T9	9.88m	-	9.88m	TLC-LED-400	4	2	2
1	T10	9.88m	-	9.88m	TLC-LED-400	2	2	0
4	TOTALS					20	10	10



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	MUGA - TPA
Size:	19.0m x 36.5m
Spacing:	4.0m x 5.5m
Height:	0.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Guaranteed Average:	300		
Scan Average:	389.11		
Maximum:	560		
Minimum:	260		
Guaranteed Min / Avg:	0.6		
Min / Avg:	0.67		
Min / Max:	0.46		
UG (adjacent pts):	1.97		
CU:	0.82		
No. of Points:	35		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.950		
No. of Luminaires:	10		
Total Load:	4.0 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
Reported per TM-21-11. See luminaire datasheet for details.			

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.

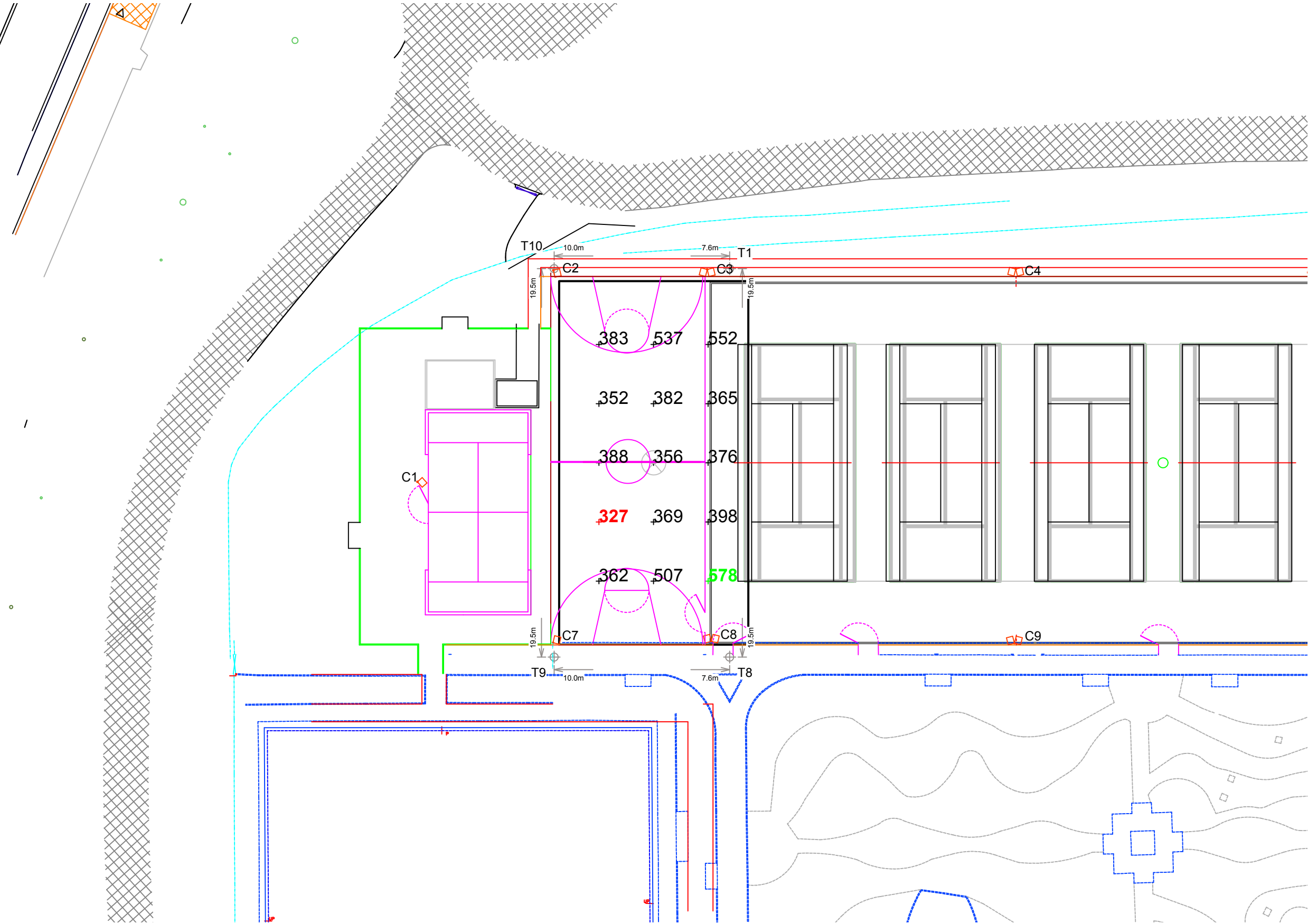
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	3	4
1	T9	9.88m	-	9.88m	TLC-LED-400	4	2	2
1	T10	9.88m	-	9.88m	TLC-LED-400	2	2	0
4	TOTALS					20	10	10



Hyde Park Tennis

London,London

GRID SUMMARY	
Name:	MUGA - PPA
Size:	19.0m x 36.5m
Spacing:	5.5m x 5.9m
Height:	0.0m above grade

ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	400			
Scan Average:	415.49			
Maximum:	578			
Minimum:	327			
Guaranteed Min / Avg:	0.7			
Min / Avg:	0.79			
Min / Max:	0.57			
UG (adjacent pts):	1.51			
CU:	0.56			
No. of Points:	15			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
Average LLF:	0.950			
No. of Luminaires:	10			
Total Load:	4.0 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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	OTHER GRIDS
1	T9	9.88m	-	9.88m	TLC-LED-400	4	2	2
1	T11	9.88m	-	9.88m	TLC-LED-400	2	2	0
2	TOTALS					6	4	2

Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Paddle Ball Court
Size:	19.0m x 36.5m
Spacing:	3.0m x 3.0m
Height:	1.0m above grade

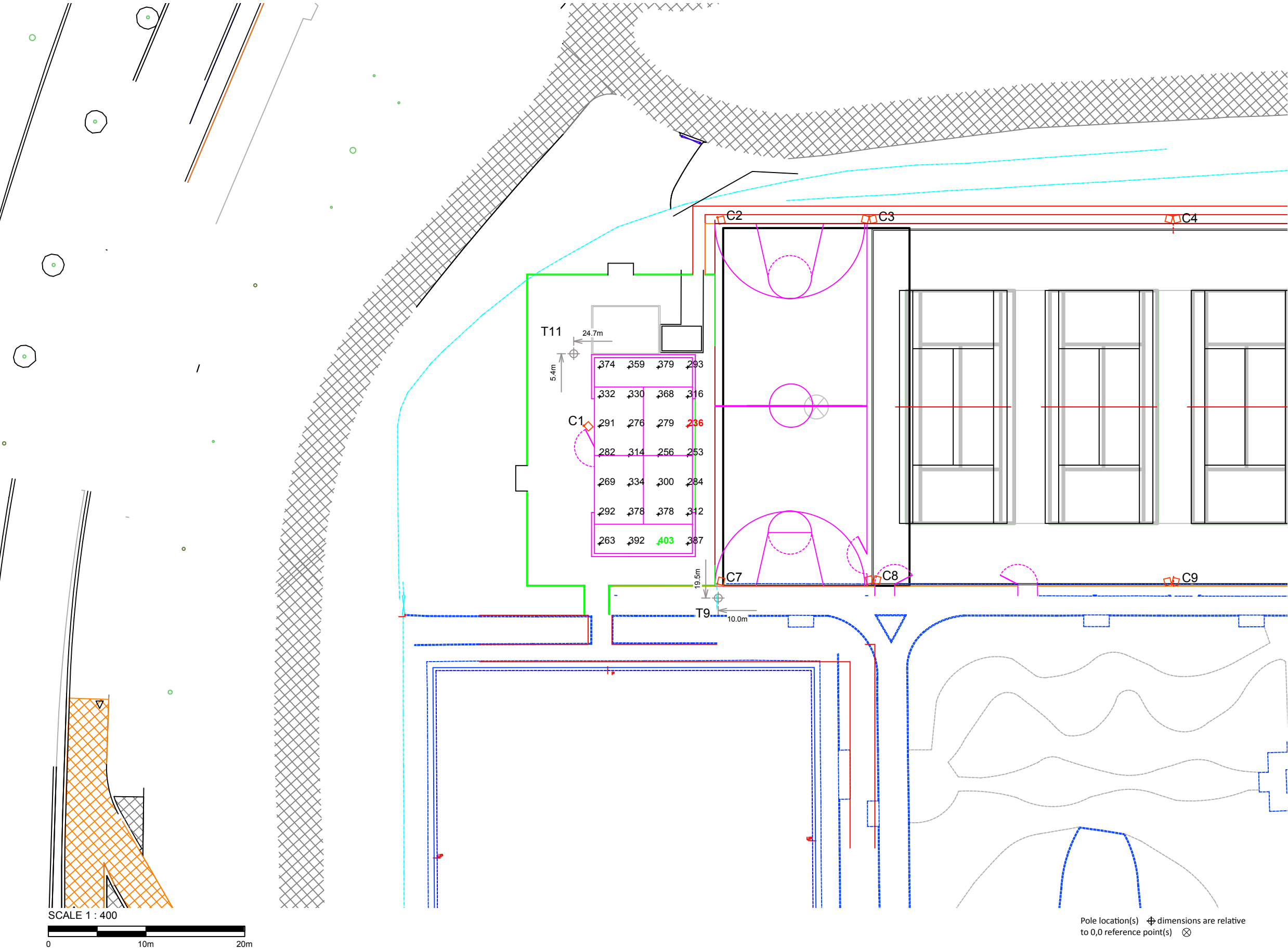
ILLUMINATION SUMMARY				
MAINTAINED HORIZONTAL LUX				
	Entire Grid			
Guaranteed Average:	300			
Scan Average:	319.01			
Maximum:	403			
Minimum:	236			
Guaranteed Min / Avg:	0.6			
Min / Avg:	0.74			
Min / Max:	0.59			
UG (adjacent pts):	1.49			
CU:	0.59			
No. of Points:	28			
LUMINAIRE INFORMATION				
Color / CRI:	5700K - 75 CRI			
Luminaire Output:	38,600 lumens			
No. of Luminaires:	4			
Total Load:	1.6 kW			
Lumen Maintenance				
Luminaire Type	L90 hrs	L80 hrs	L70 hrs	
TLC-LED-400	61,000	>72,000	>72,000	
Reported per TM-21-11. See luminaire datasheet for details.				

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.

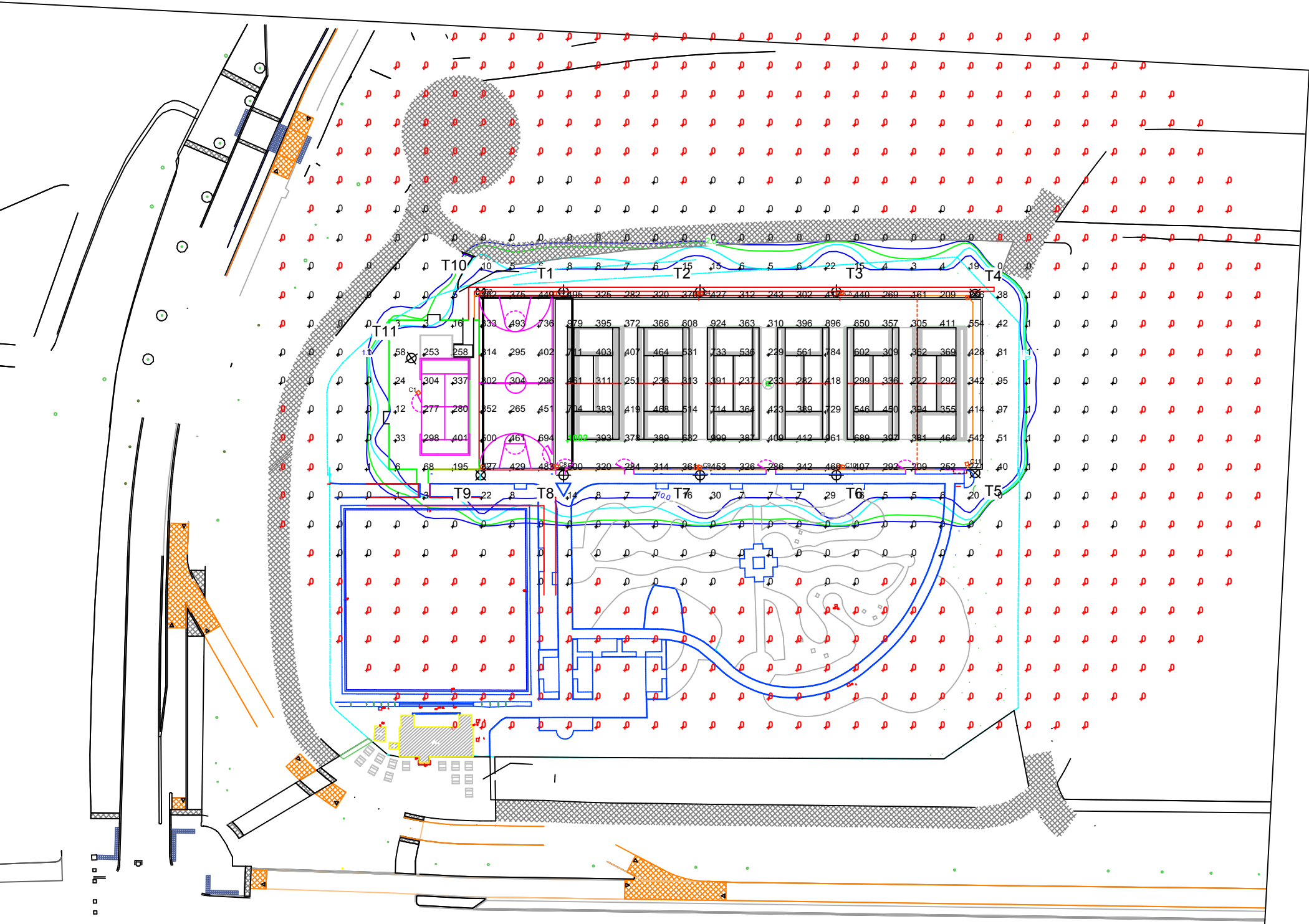
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	7	0
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	8	0
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
1	T9	9.88m	-	9.88m	TLC-LED-400	4	4	0
2	T10-T11	9.88m	-	9.88m	TLC-LED-400	2	2	0
11	TOTALS					62	62	0



Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Tennis Spill
Size:	6 Court - 3.6m Spacing
Spacing:	6.1m x 6.1m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED HORIZONTAL LUX			
	Entire Grid		
Scan Average:	72.1826		
Maximum:	1002.16		
Minimum:	0.00		
CU:	0.98		
No. of Points:	799		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.953		
No. of Luminaires:	62		
Total Load:	24.8 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
Reported per TM-21-11. See luminaire datasheet for details.			

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.

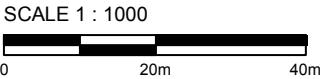
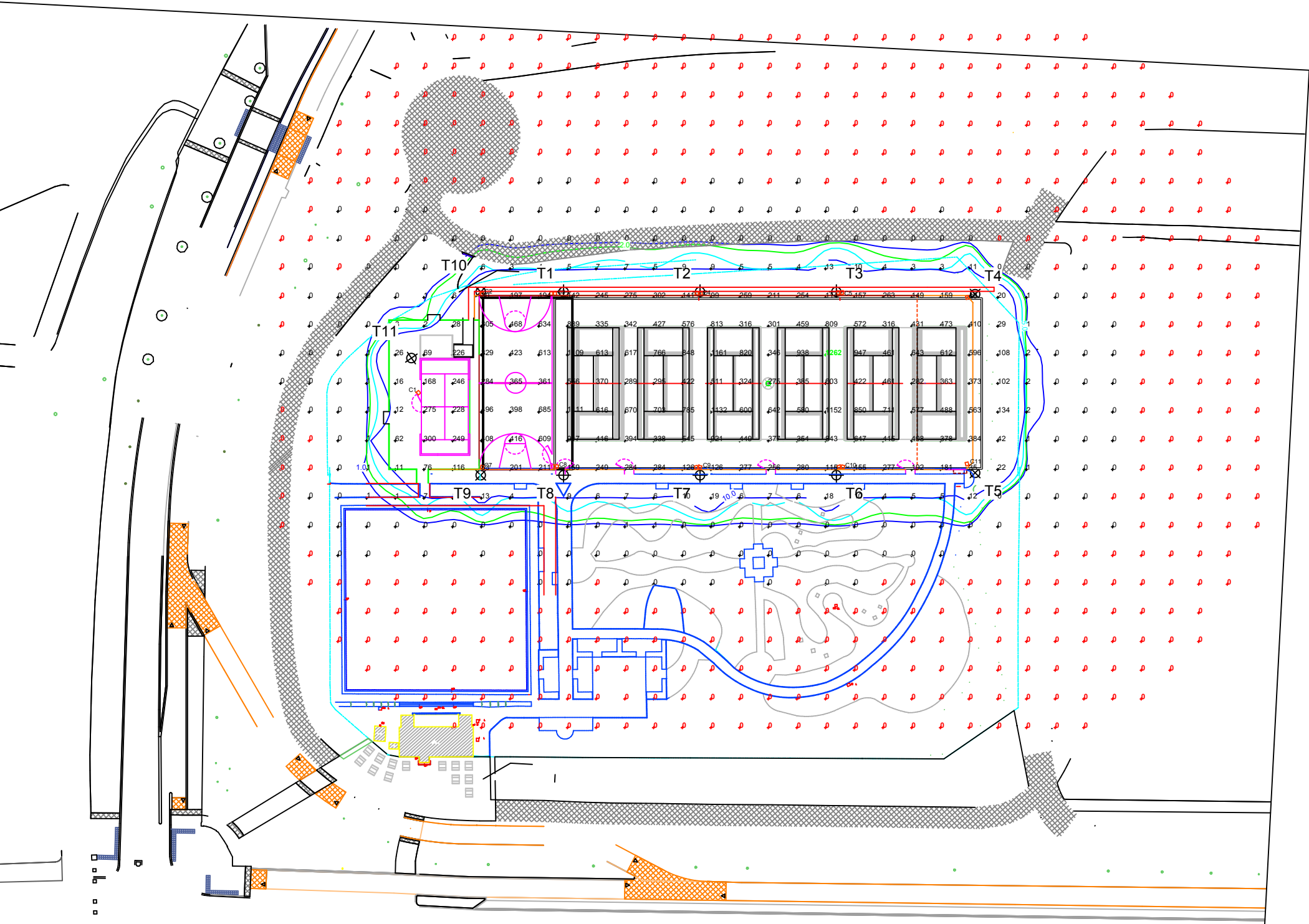
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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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	T1, T8	9.88m	-	9.88m	TLC-LED-400	7	7	0
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8	8	0
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4	4	0
1	T9	9.88m	-	9.88m	TLC-LED-400	4	4	0
2	T10-T11	9.88m	-	9.88m	TLC-LED-400	2	2	0
11	TOTALS					62	62	0



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

Hyde Park Tennis
London,London

GRID SUMMARY	
Name:	Tennis Spill
Size:	6 Court - 3.6m Spacing
Spacing:	6.1m x 6.1m
Height:	1.0m above grade

ILLUMINATION SUMMARY			
MAINTAINED MAX VERTICAL LUX			
	Entire Grid		
Scan Average:	75.6216		
Maximum:	1261.68		
Minimum:	0.00		
CU:	0.98		
No. of Points:	799		
LUMINAIRE INFORMATION			
Color / CRI:	5700K - 75 CRI		
Luminaire Output:	38,600 lumens		
Average LLF:	0.953		
No. of Luminaires:	62		
Total Load:	24.8 kW		
Lumen Maintenance			
Luminaire Type	L90 hrs	L80 hrs	L70 hrs
TLC-LED-400	61,000	>72,000	>72,000
Reported per TM-21-11. See luminaire datasheet for details.			

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.



Hyde Park Tennis
London, London

EQUIPMENT LAYOUT

INCLUDES:

- MUGA
- Tennis

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

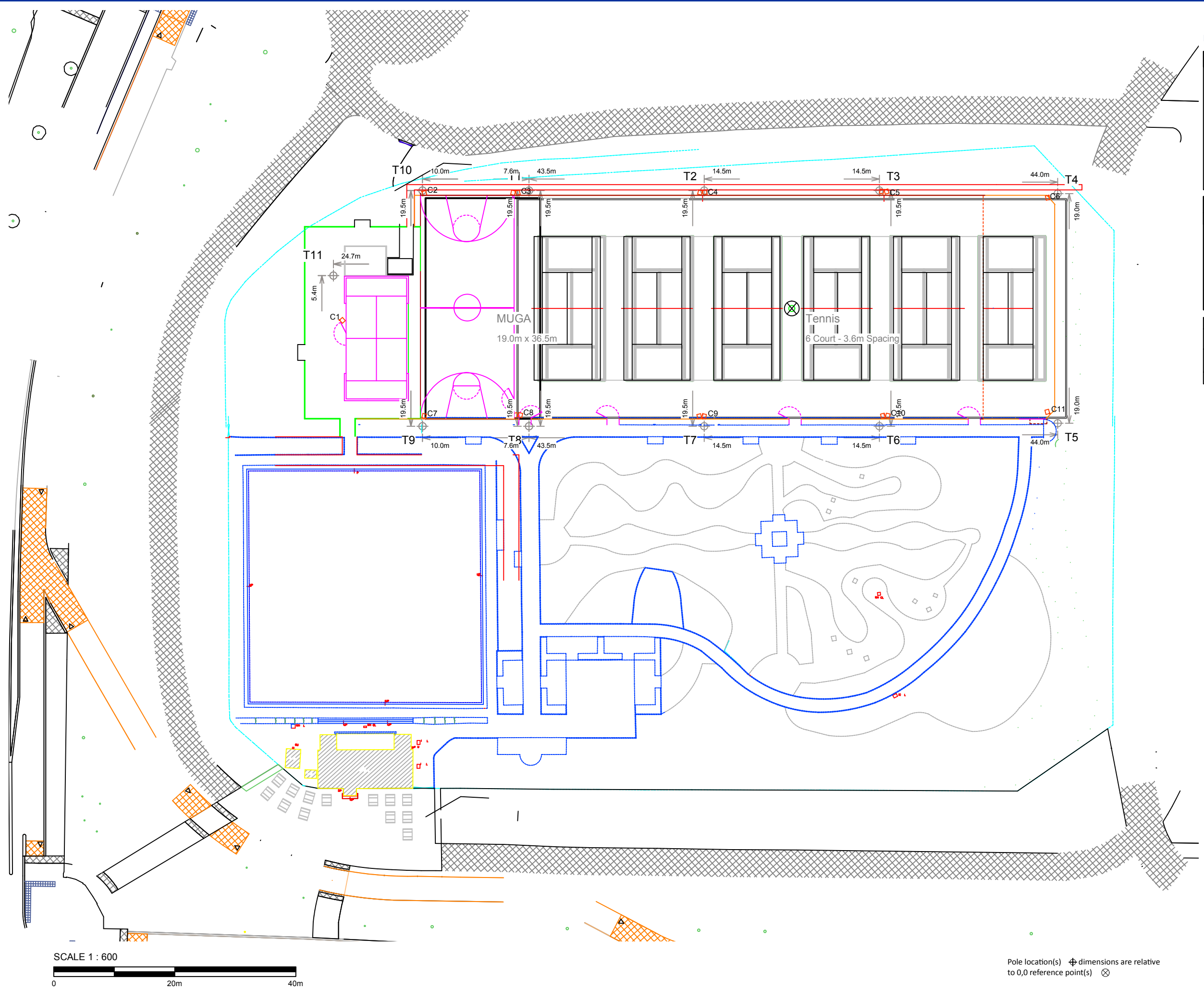
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	T1, T8	9.88m	-	9.88m	TLC-LED-400	7
4	T2-T3 T6-T7	9.88m	-	9.88m	TLC-LED-400	8
2	T4-T5	9.88m	-	9.88m	TLC-LED-400	4
1	T9	9.88m	-	9.88m	TLC-LED-400	4
2	T10-T11	9.88m	-	9.88m	TLC-LED-400	2
11	TOTALS					62

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)					
Single Phase Voltage	220 (50)	230 (50)	240 (50)	380 (50)	400 (50)	415 (50)
TLC-LED-400	2.3	2.2	2.1	1.4	1.3	1.2



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