

Mt Hope High School Tennis

Bristol, RI

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1	40'	40'	2	TLC-LED-900	1.76 kW	A
T2	60'	60'	2	TLC-LED-900	1.76 kW	A
		60'	3	TLC-LED-900	2.64 kW	B
T3-T4	60'	60'	3	TLC-LED-900	2.64 kW	B
T5	60'	60'	2	TLC-LED-900	1.76 kW	A
		60'	3	TLC-LED-900	2.64 kW	B
T6	40'	40'	2	TLC-LED-900	1.76 kW	A
6			20		17.60 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis 1-2	7.04 kW	8
B	Tennis 3-5	10.56 kW	12

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	20

Single Luminaire Amperage Draw Chart								
Driver Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)							
	208	220	240	277	347	380	480	
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)	
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 Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Project Spill @ 3ft.	Horizontal Illuminance	0.0000	0.00	0.00	-	-	A,B	20
Project Spill @ 5ft.	Max Candela Metric	0.0000	0.00	0.00	-	-	A,B	20
Project Spill @ 5ft.	Max Vertical Illuminance Metric	0.0000	0.00	0.00	-	-	A,B	20
Tennis 1-2	Horizontal Illuminance	50.84	43	67	1.57	1.18	A	8
Tennis 3-5	Horizontal Illuminance	55.12	46	67	1.47	1.21	B	12

From Hometown to Professional



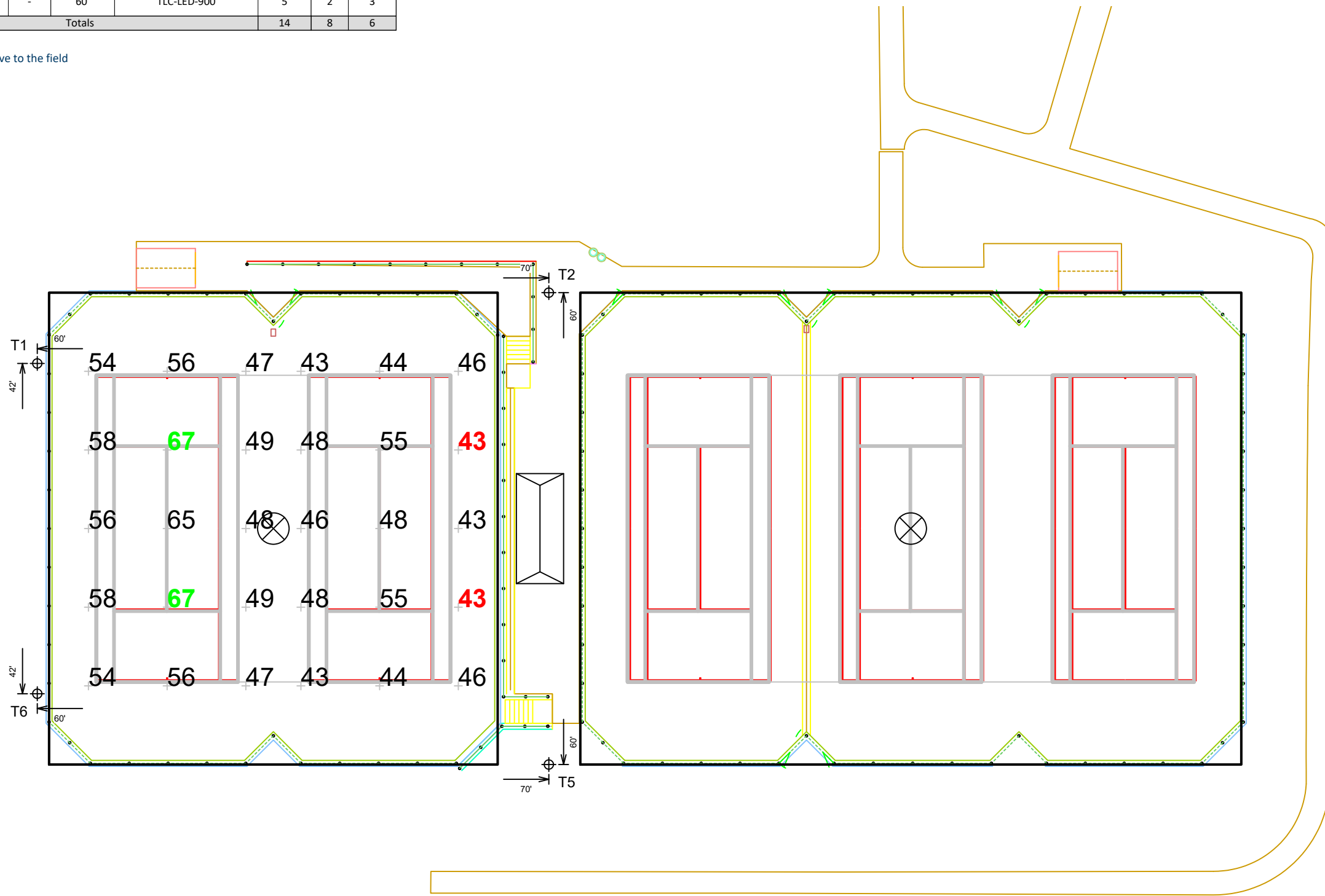
Nathan Chubb, LLC
24/JAN/2025



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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	T1 T6	40'	-	40'	TLC-LED-900	2	2	0
2	T2 T5	60'	-	60'	TLC-LED-900	5	2	3
4	Totals					14	8	6

*Above Grade level relative to the field



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Bristol, RI

Grid Summary	
Name	Tennis 1-2
Size	2 Court - 18' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Entire Grid 50
Scan Average	50.84
Maximum	67
Minimum	43
Avg/Min	1.18
Guaranteed Max/Min	2
Max/Min	1.57
UG (adjacent pts)	0.00
CU	0.81
No. of Points	30
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	8
Total Load	7.04 kW

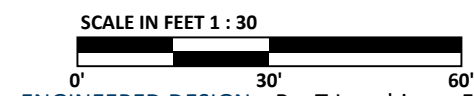
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

Nathan Chubb, LC
29/JAN/2025



ENGINEERED DESIGN By: T.Lanphier • File #241521A • 15-Jan-25

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



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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	T2 T5	60'	-	60'	TLC-LED-900	5	3	2
2	T3-T4	60'	-	60'	TLC-LED-900	3	3	0
4	Totals					16	12	4

*Above Grade level relative to the field

Mt Hope High School Tennis

Bristol, RI

Grid Summary	
Name	Tennis 3-5
Size	3 Court - 18' Spacing
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average	50
Scan Average	55.12
Maximum	67
Minimum	46
Avg/Min	1.21
Guaranteed Max/Min	2
Max/Min	1.47
UG (adjacent pts)	0.00
CU	0.82
No. of Points	45
LUMINAIRE INFORMATION	
Applied Circuits	B
No. of Luminaires	12
Total Load	10.56 kW

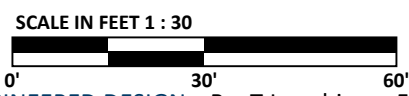
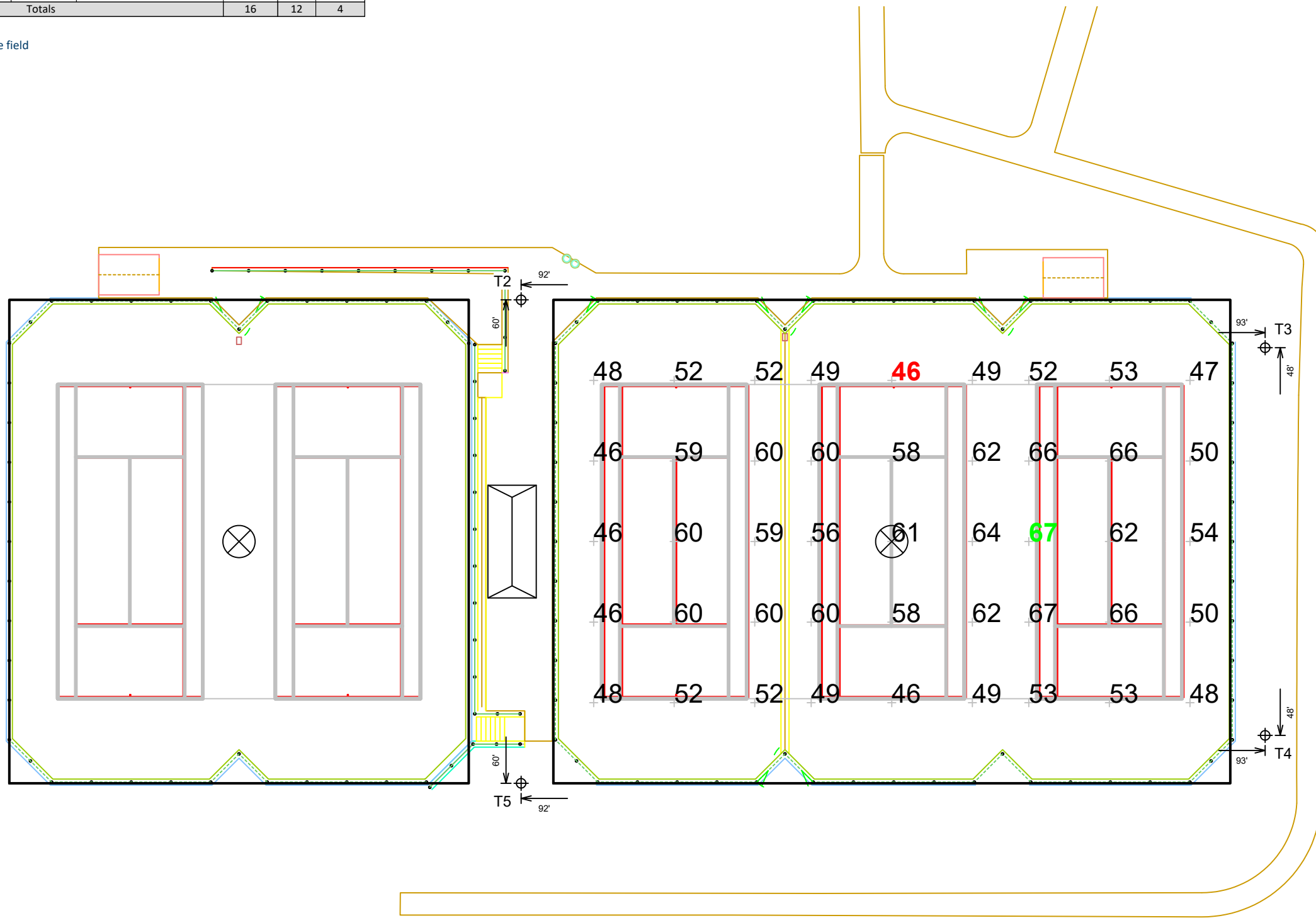
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Nathan Chubb, LC
24/Jan/2025



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ILLUMINATION SUMMARY

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Grid Summary	
Name	Project Spill @ 3ft.
Spacing	30.0'
Height	3.0' above grade

Illumination Summary	
INITIAL HORIZONTAL FOOTCANDLES	
Entire Grid	0.0000
Scan Average	0.00
Maximum	0.00
Minimum	0.00
No. of Points	60
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	20
Total Load	17.60 kW

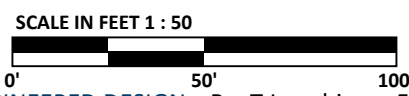
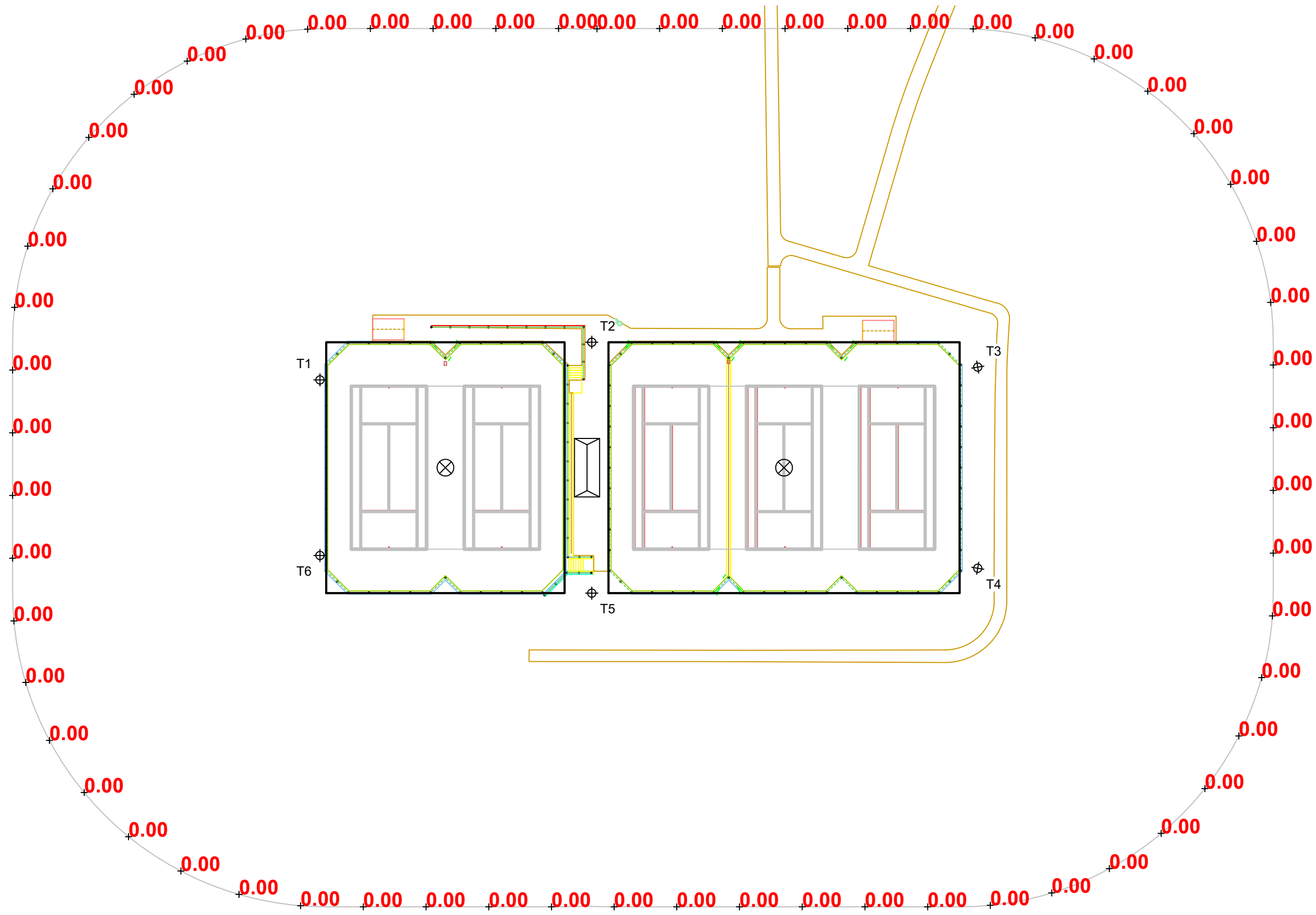
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Nathan Chell, LC
24/JAN/2025



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Grid Summary	
Name	Project Spill @ 5ft.
Spacing	30.0'
Height	5.0' above grade

Illumination Summary		INITIAL MAX VERTICAL FOOTCANDLES
		Entire Grid
Scan Average	0.0000	
Maximum	0.00	
Minimum	0.00	
No. of Points	60	
LUMINAIRE INFORMATION		
Applied Circuits	A,B	
No. of Luminaires	20	
Total Load	17.60 kW	

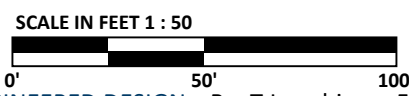
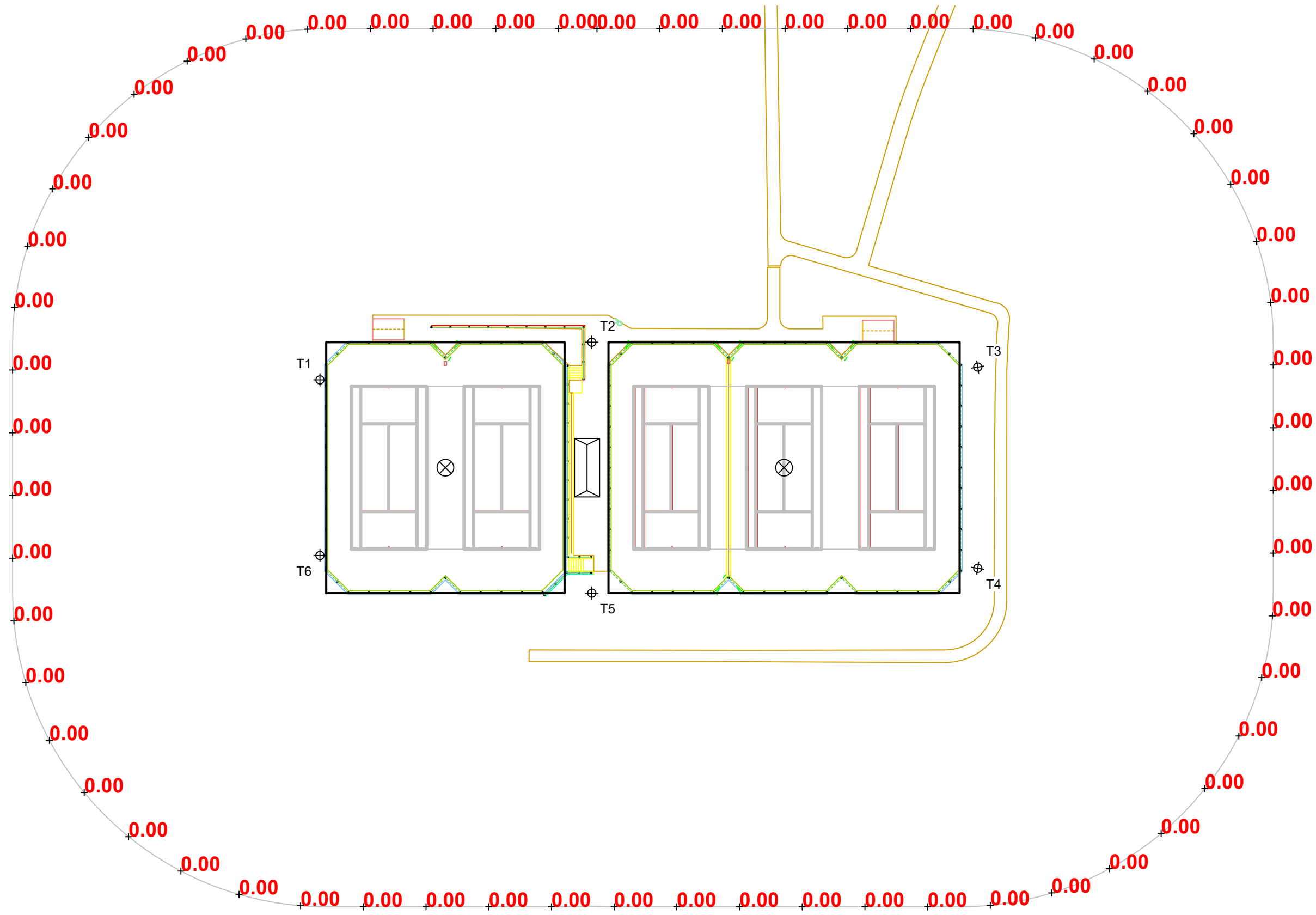
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Nathan Chubb, LC
24/JAN/2025



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Grid Summary	
Name	Project Spill @ 5ft.
Spacing	30.0'
Height	5.0' above grade

Illumination Summary	
INITIAL CANDELA (PER FIXTURE)	
Entire Grid	0.0000
Scan Average	0.00
Maximum	0.00
Minimum	0.00
No. of Points	60
LUMINAIRE INFORMATION	
Applied Circuits	A,B
No. of Luminaires	20
Total Load	17.60 kW

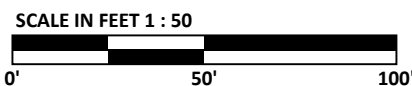
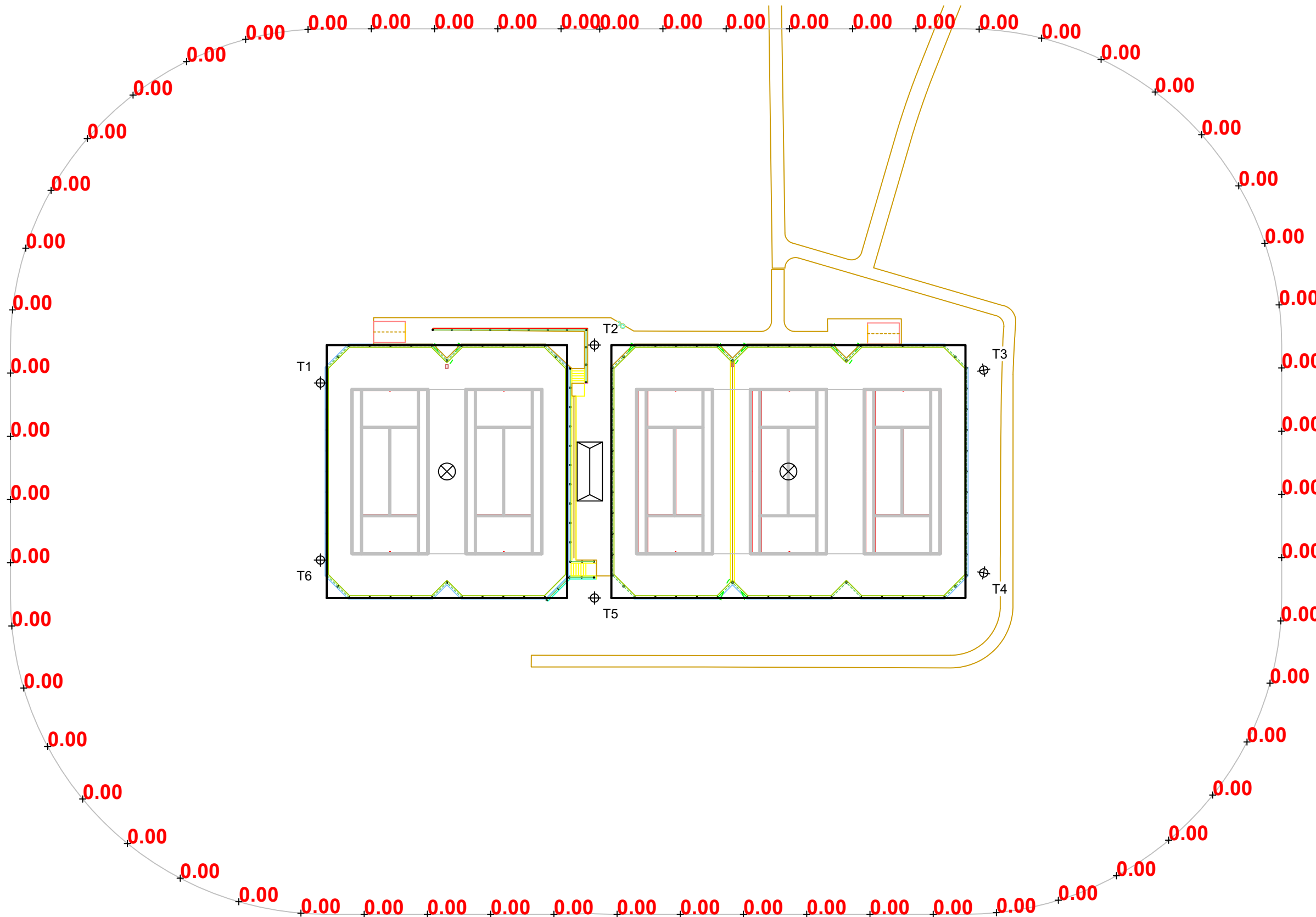
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Nathan Chubb, LC
24/JAN/2025



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Equipment Layout

INCLUDES:
 · Tennis 1-2
 · Tennis 3-5

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

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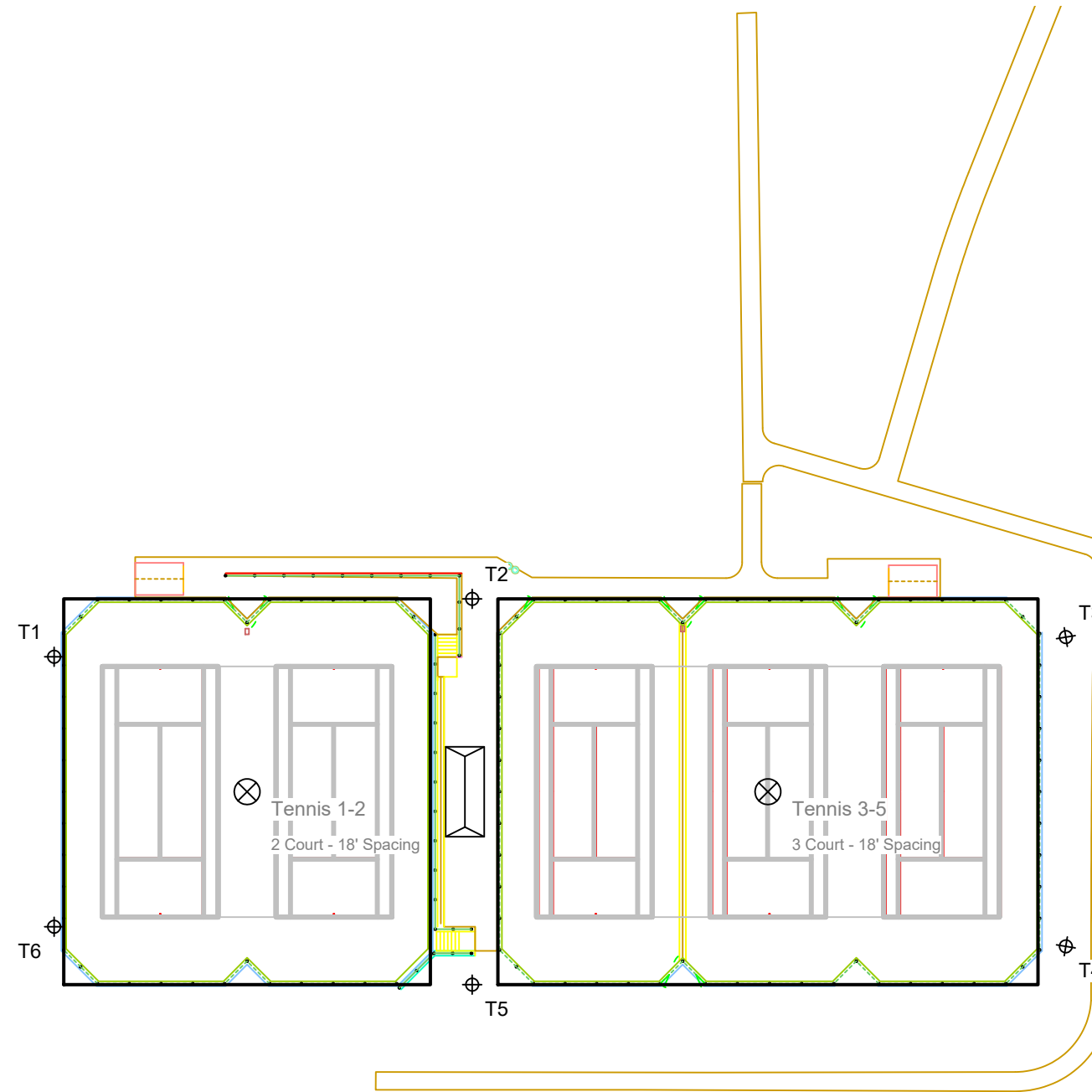
Equipment List For Areas Shown

QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE
2	T1 T6	40'	-	40'	TLC-LED-900	2
2	T2 T5	60'	-	60'	TLC-LED-900	5
2	T3-T4	60'	-	60'	TLC-LED-900	3
6	Totals					20

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)
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3

Nathan Chubb, LC
 24/JAN/2025



SCALE IN FEET 1 : 50



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



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NCQLP™

National Council on Qualifications
for the Lighting Professions

*The National Council on Qualifications for the
Lighting Professions certifies that*

NATHAN W CHIZEK

has met all of the qualifications for the LC credential.



Bernard J. Erickson, LC
2020-2021 NCQLP President

CERTIFICATION EXPIRES DECEMBER 31, 2024