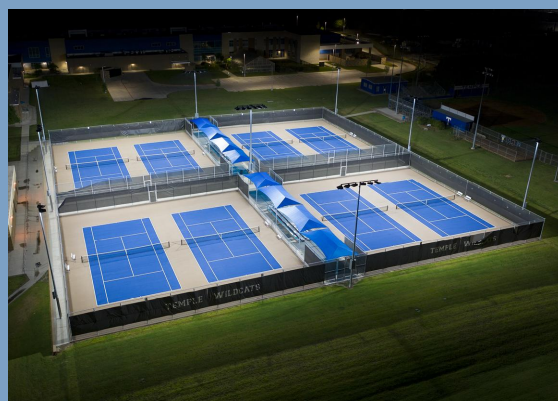




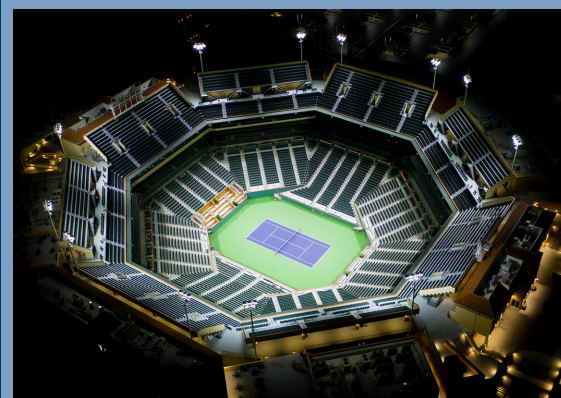
Temple ISD, Temple, Texas, USA



Riverdale Ridge High School, Thornton, Colorado, USA



Mt. San Antonio College, Walnut, California, USA



Indian Wells Tennis Garden, Indian Wells, California, USA

The Williams School Tennis

New London, CT

Sales Representative: M.Mahoney · Designed By: J. Danielson · Design No.: 170539D · June 26, 2025

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LIGHTING SYSTEM

Structure/Fixture Summary						
Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
P1	40'	40'	2	TLC-LED-550	1.08 kW	C
T1	50'	50'	2	TLC-LED-1200	2.34 kW	A
T2	50'	50'	2	TLC-LED-1200	2.34 kW	A
		50'	2	TLC-LED-1200	2.34 kW	B
T3	50'	50'	2	TLC-LED-1200	2.34 kW	B
T4	50'	50'	2	TLC-LED-1200	2.34 kW	B
		50'	2	TLC-LED-550	1.08 kW	C
T5	50'	50'	2	TLC-LED-1200	2.34 kW	A
		50'	2	TLC-LED-1200	2.34 kW	B
T6	50'	50'	2	TLC-LED-1200	2.34 kW	A
7			20		20.88 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis 1-3	9.36 kW	8
B	Tennis 4-6	9.36 kW	8
C	Pickleball	2.16 kW	4

Fixture Type Summary								
Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	8
TLC-LED-1200	B	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	8
TLC-LED-550	C	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	4

Single Fixture Amperage Draw Chart							
Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Pickleball	Horizontal Illuminance	17.79	11	26	2.50	1.68	C	4
Tennis 1-3	Horizontal Illuminance	57.31	49	65	1.35	1.18	A	8
Tennis 4-6	Horizontal Illuminance	56.73	48	64	1.34	1.18	B	8

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.

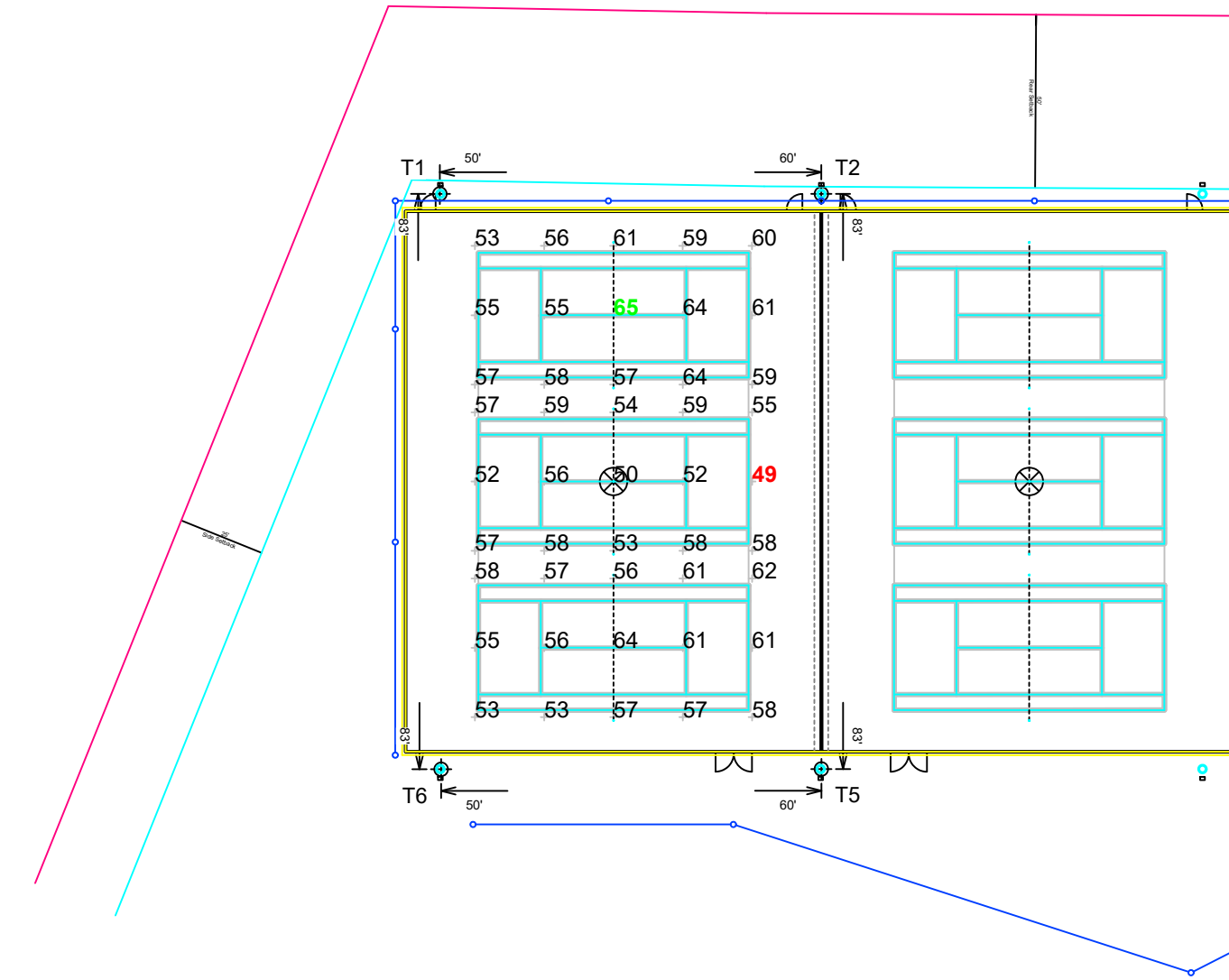
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	T1 T6	50'	-	50'	TLC-LED-1200	2	2	0
2	T2 T5	50'	-	50'	TLC-LED-1200	4	2	2
4	Totals					12	8	4

Above Field Level is height of fixtures above area shown



The Williams School Tennis

New London, CT

Grid Summary

Name:	Tennis 1-3
Size:	3 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

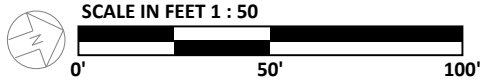
MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	50
Scan Average:	57.31
Maximum:	65
Minimum:	49
Avg/Min:	1.18
Guaranteed Max/Min:	2
Max/Min:	1.35
UG (adjacent pts):	0.00
CU:	0.84
No. of Points:	45
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	8
Total Load:	9.36 kW

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.



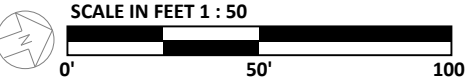
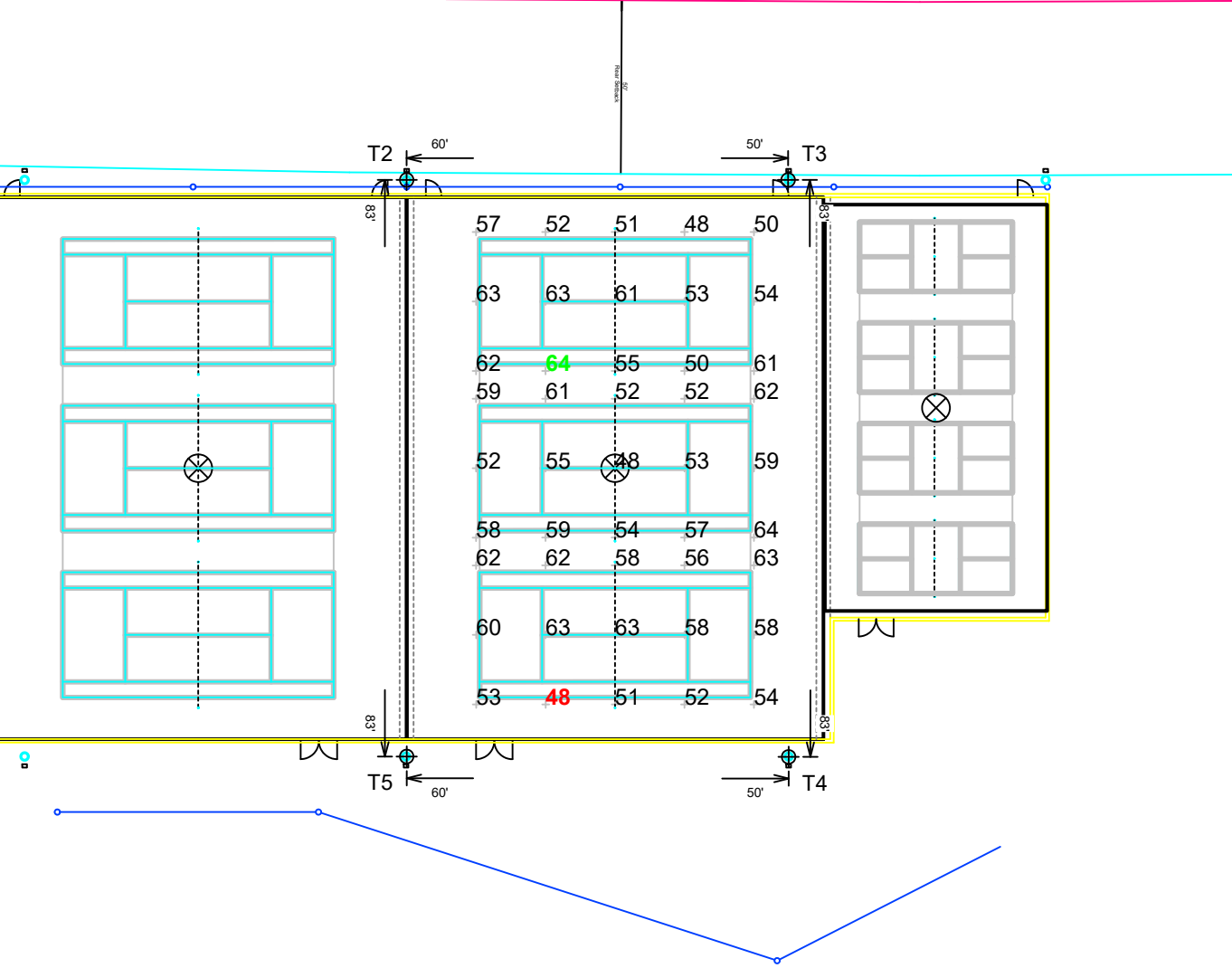
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	T2 T5	50'	-	50'	TLC-LED-1200	4	2	2
1	T3	50'	-	50'	TLC-LED-1200	2	2	0
1	T4	50'	-	50'	TLC-LED-1200	2	2	0
				50'	TLC-LED-550	2	0	2
4	Totals					14	8	6

- Above Field Level is height of fixtures above area shown



The Williams School Tennis

New London, CT

Grid Summary

Name:	Tennis 4-6
Size:	3 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
	Entire Grid
Guaranteed Average:	50
Scan Average:	56.73
Maximum:	64
Minimum:	48
Avg/Min:	1.18
Guaranteed Max/Min:	2
Max/Min:	1.34
UG (adjacent pts):	0.00
CU:	0.83
No. of Points:	45
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	8
Total Load:	9.36 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.



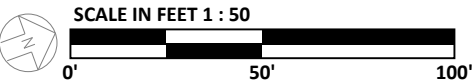
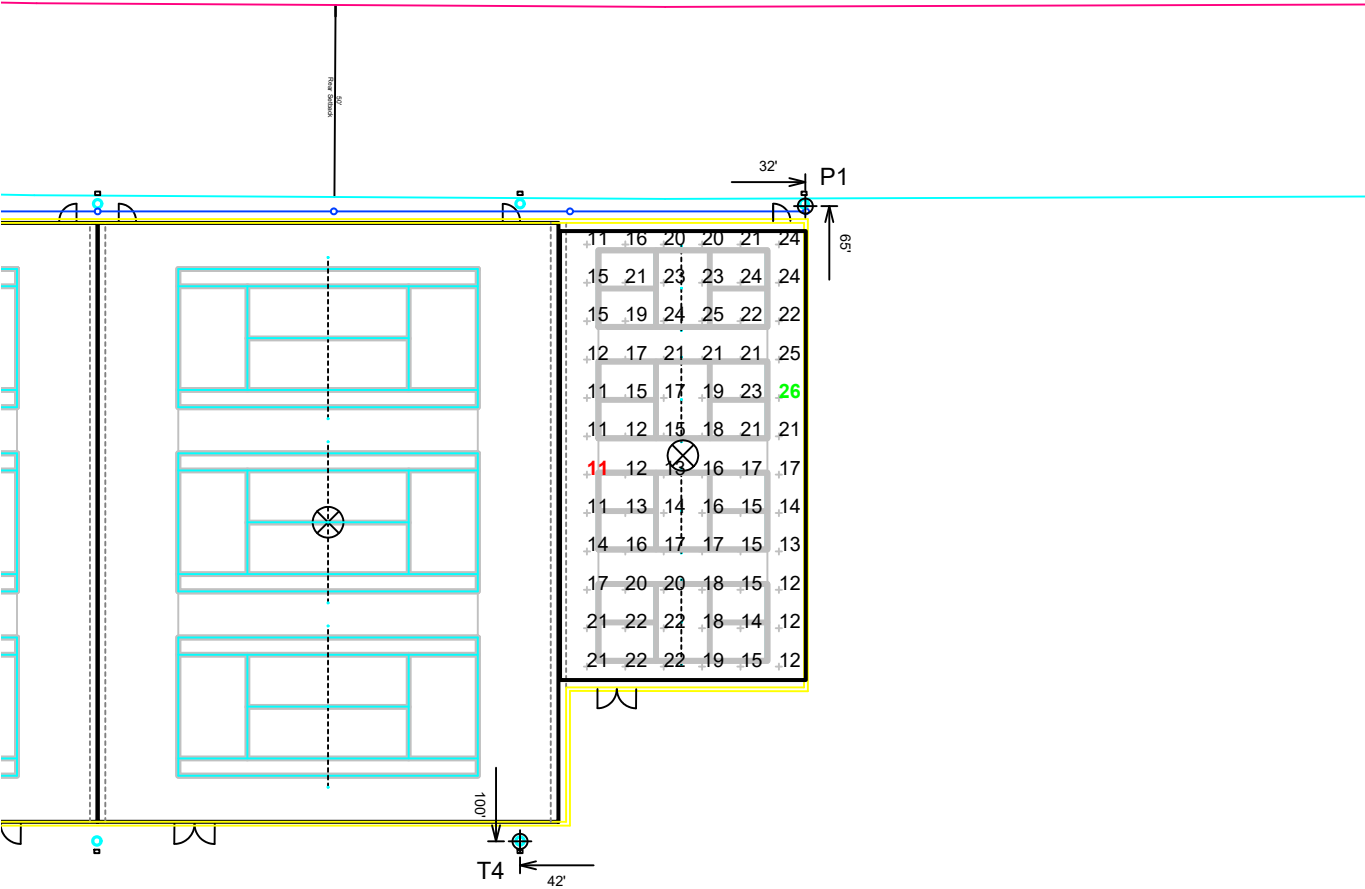
Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

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
1	P1	40'	-	40'	TLC-LED-550	2	2	0
1	T4	50'	-	50'	TLC-LED-1200	2	0	2
				50'	TLC-LED-550	2	2	0
2	Totals					6	4	2

Above Field Level is height of fixtures above area shown



The Williams School Tennis

New London, CT

Grid Summary

Name: Pickleball
Size: 117' x 64'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	17.79
Maximum:	26
Minimum:	11
Avg/Min:	1.68
Max/Min:	2.50
UG (adjacent pts):	1.43
CU:	0.47
No. of Points:	72
FIXTURE INFORMATION	
Applied Circuits:	C
No. of Fixtures:	4
Total Load:	2.16 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.

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



The Williams School Tennis

New London, CT

Equipment Layout

INCLUDES:

- Pickleball
- Tennis 1-3
- Tennis 4-6

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.

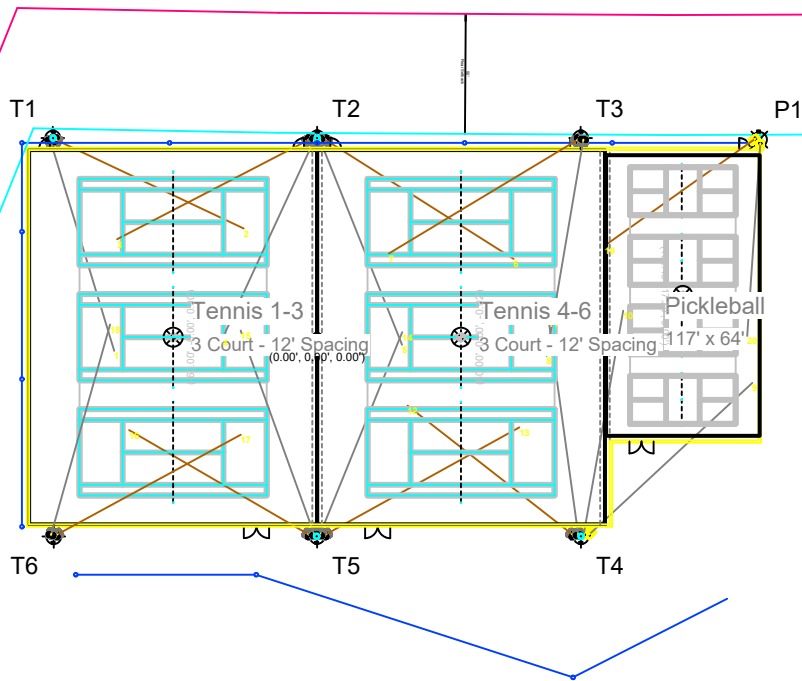
Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
1	P1	40'	-	40'	TLC-LED-550	2
3	T1 T3 T6	50'	-	50'	TLC-LED-1200	2
2	T2 T5	50'	-	50'	TLC-LED-1200	4
1	T4	50'	-	50'	TLC-LED-1200	2
				50'	TLC-LED-550	2
7	Totals					20

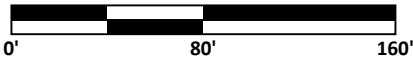
Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



SCALE IN FEET 1 : 80



ENGINEERED DESIGN By: J. Danielson • File #170539D • 26-Jun-25

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



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EQUIPMENT LAYOUT