

Meadow Lane Park Tennis & Basketball

Vienna, VA

Lighting System

Pole/Fixture Summary					
Pole ID	Pole Height	Min Height	Fixture Qty	Luminaire Type	Load
T1	40'	40'	2	TLC-LED-550	1.08 kW
		40'	2	TLC-LED-550	1.08 kW
T2-T3	40'	40'	2	TLC-LED-550	1.08 kW
T4	40'	40'	2	TLC-LED-550	1.08 kW
		40'	2	TLC-LED-550	1.08 kW
4			12		6.48 kW

Circuit Summary			
Circuit	Description	Load	Fixture Qty
B	Basketball	2.16 kW	4
C	Tennis	4.32 kW	8

Fixture Type Summary					
Type	Source	Wattage	Lumens	L90	L70
TLC-LED-550	LED 5700K -75 CRI	540W	67,000	>120,000	>120,000
					Quantity
					12

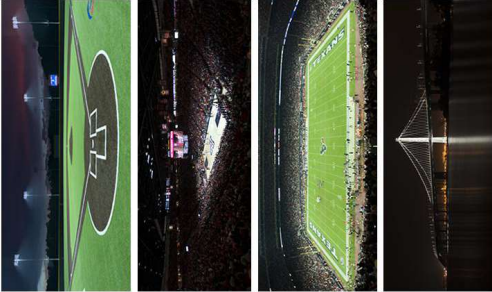
Single Luminaire Amperage Draw Chart

Driver Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)					
		208	220	240	277	347	380
Single Phase Voltage	(60)	(60)	(60)	(60)	(60)	(60)	(60)
		3.2	3.0	2.8	2.4	1.9	1.8
TLC-LED-550						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			
Basketball	Horizontal Illuminance	31.88	22.05	43.26	1.96	1.45	B		4
Blanket Grid	Horizontal	9.63	0.00	40.76	114694.64	27092.84	B,C		12
Tennis	Horizontal Illuminance	32.04	23.31	41.46	1.78	1.37	C		8

From Hometown to Professional

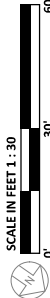
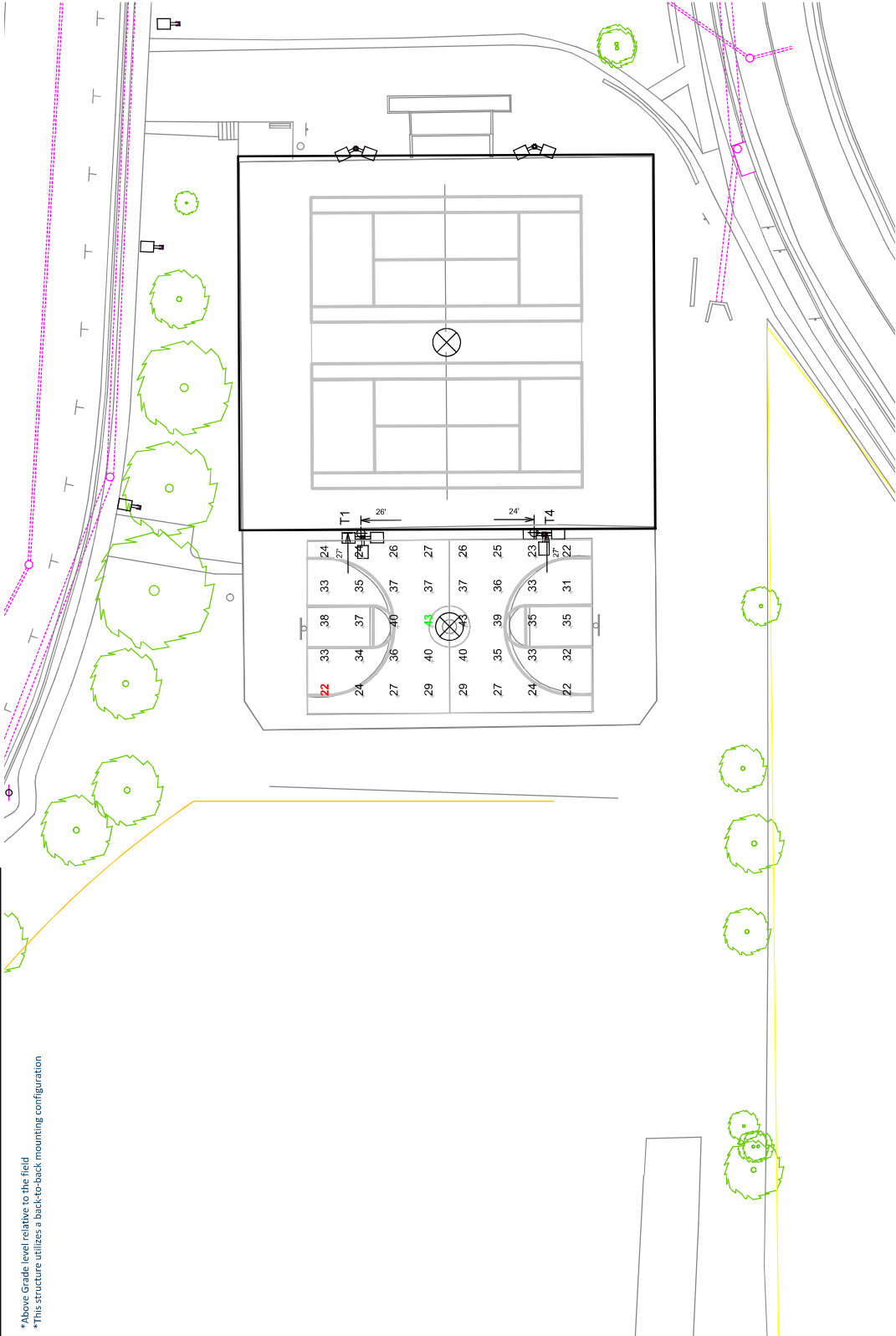


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Equipment List For Areas Shown								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
2	T1	40'	-	40'	TLC-LED 550	2/2*	2	2
	T4							
2	Totals							
						8	4	4

*Above Grade level relative to the field

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



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

Grid Summary	
Name: Basketball	
Size: 82' x 50'	
Spacing: 10.0' x 10.0'	
Height: 3.0' above grade	

Illumination Summary	
MAINTAINED HORIZONTAL FOOT-CANDLES	
Entire Grid	
Guaranteed Average: 30	
Scan Average: 31.88	
Maximum: 43.26	
Minimum: 22.05	
Avg/Min: 1.45	
Guaranteed Max/Min: 3	
Max/Min: 1.96	
UG (adjacent pts): 1.49	
CU: 0.51	
No. of Points: 40	
Area of Grid: 4100 sq ft	
No. of Luminaires: 8	
Total Load: 2.16 kW	

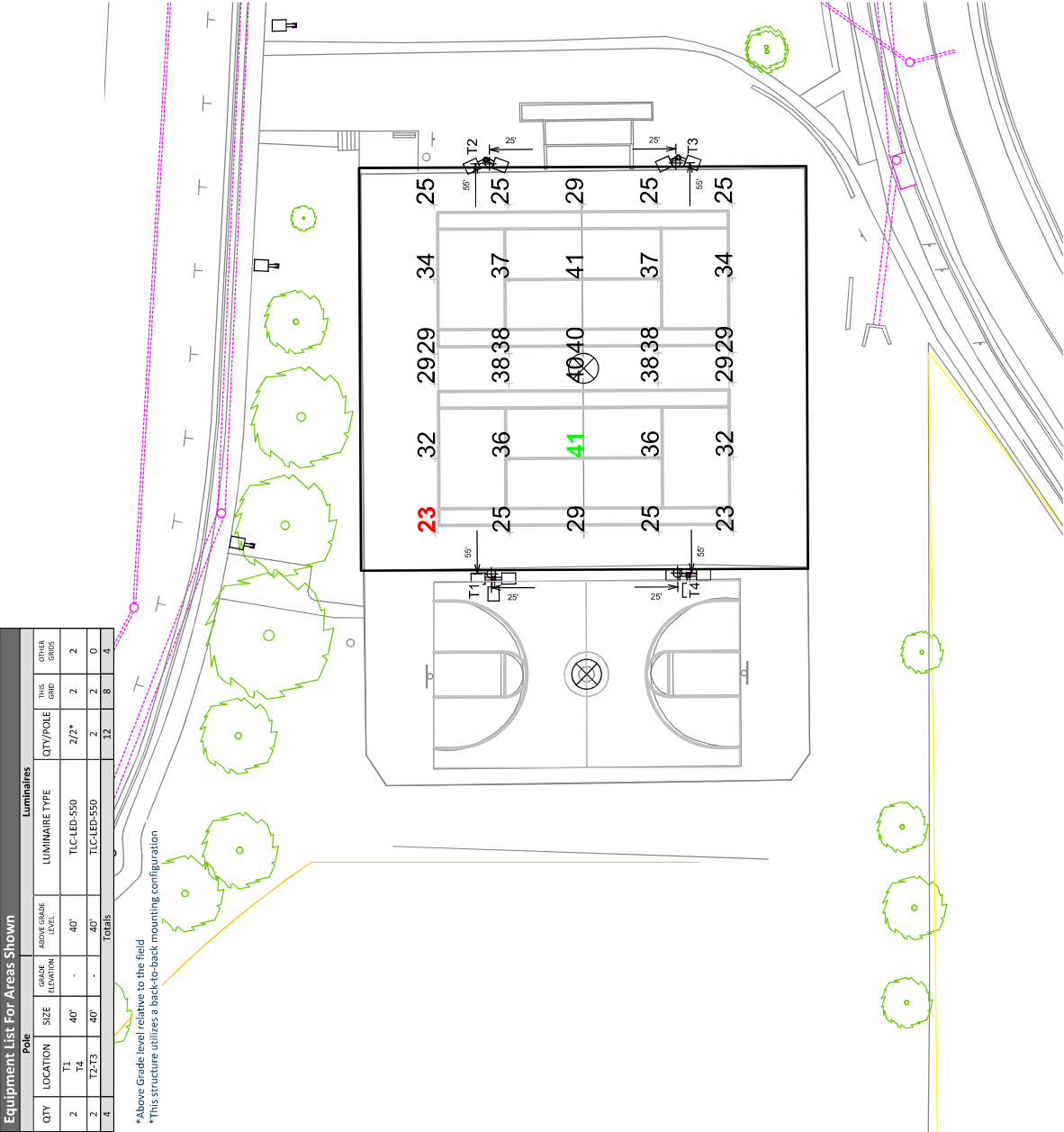
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.
Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.
Electrical System Requirements: Refer to Appendix B for electrical requirements and wiring diagrams.
Design Notes: Refer to the "Musco Control System Summary" for electrical wiring.
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Meadow Lane Park Tennis & Basketball
Vienna, VA

Grid Summary			
Name: Tennis			
Size: 2 Court - 12' Spacing			
Spacing: 20.0' x 20.0'			
Height: 3.0' above grade			

Illumination Summary	
MAINTAINED HORIZONTAL FOOT CANDLES	
Entire Grid	
Guaranteed Average: 30	
Scan Average: 32.04	
Maximum: 41.46	
Minimum: 23.31	
Avg/Min: 1.37	
Guaranteed Max/Min: 2.5	
Max/Min: 1.78	
UG (adjacent pts): 0.00	
CU: 0.76	
No. of Points: 30	
Adjusted Candles: C	
No. of Luminaires: 8	
Total Load: 4.32 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 Ampsage Design for the final design and electrical specifications for electrical sizing.
Photometric Data: Refer to the "Musco Control System Summary"
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Meadow Lane Park Tennis & Basketball
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Grid Summary	
Name:	Blanket Grid
Spacing:	30.0' x 20.0'
Height:	0.0' above grade

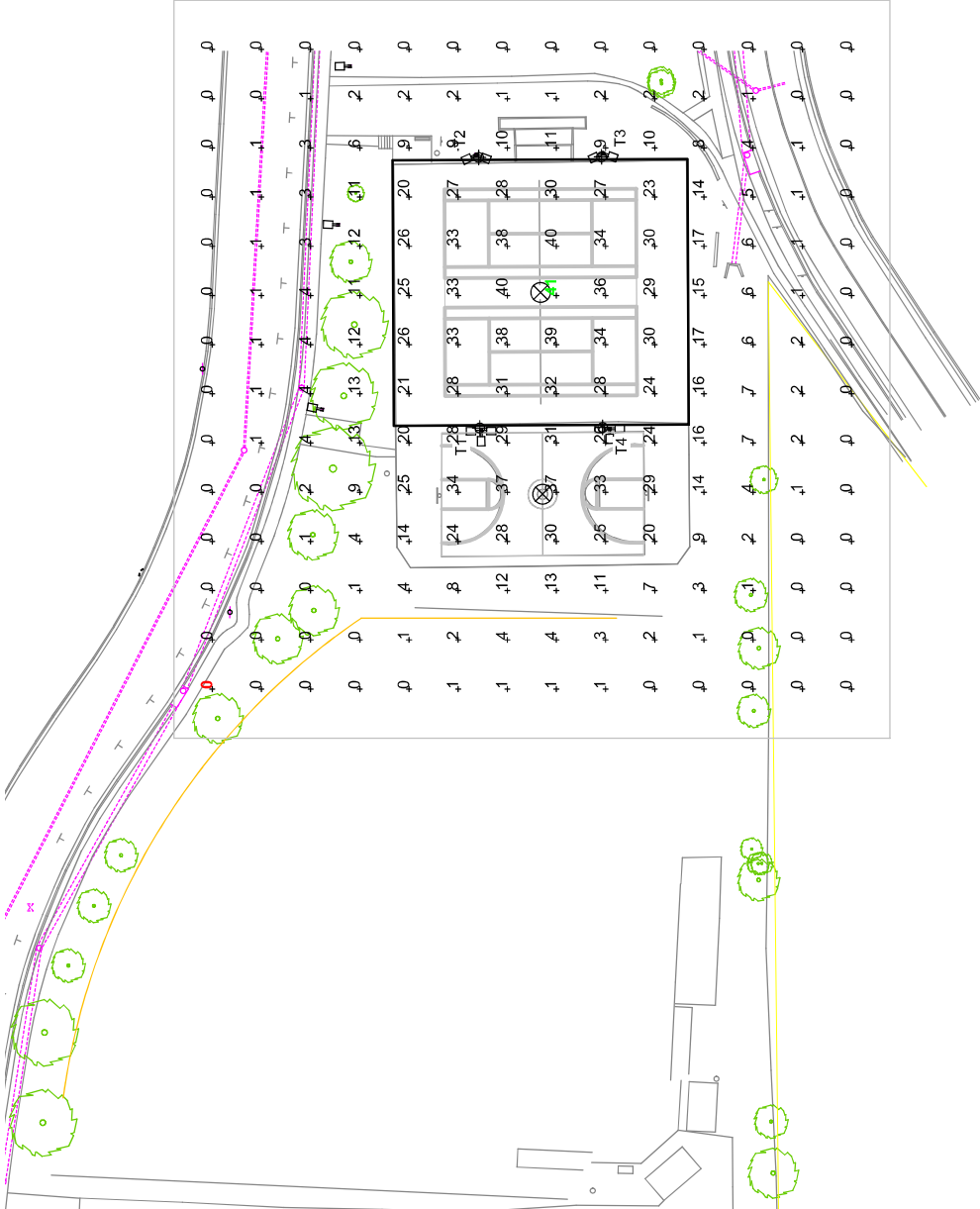
Illumination Summary	
ENTIRE GRID	
Scan Average:	9.63
Maximum:	40.76
Minimum:	0.00
Avg/Min:	27092.84
Max/Min:	114694.64
UG (adjacent pts):	11.13
CU:	1.00
No. of Points:	196
LUMINAIRE INFORMATION	
Applied Circuits:	9.C
No. of Luminaires:	12
Total Load:	6.48 kW

Guaranteed Performance: The ILLUMINATION described above is based on the design conditions and assumptions stated in this 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 and Voltage for 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 IN FEET 1 : 50
0 50 100'
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Pole location(s) ⊕ dimensions are relative to 0.0 reference point(s) ⊗

Meadow Lane Park Tennis & Basketball

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Equipment Layout

INCLUDES:

Basketball

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.

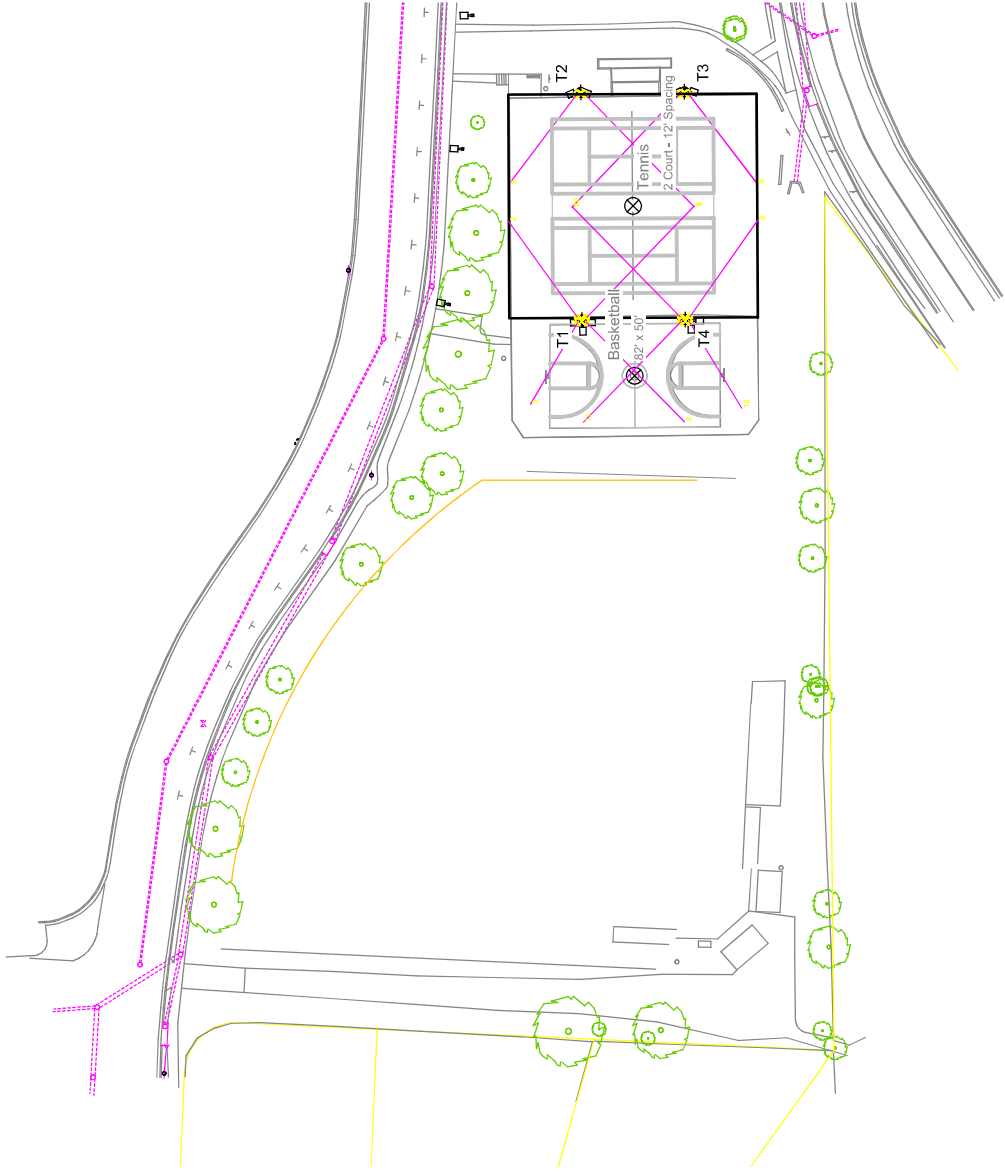
Equipment List For Areas Shown

Pole		Luminaires		
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL
2	T1	40'	-	40'
2	T4	40'	-	40'
2	T2-T3	40'	-	40'
4	Totals			12

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

Single Luminaire Amperage Draw Chart

Driver Specifications (30 min power factor)		Line Amperage Per Luminaire (max draw)							
Single Phase Voltage	TLC-LED-550	208	220	240	277	347	380	480	
		(60)	(60)	(60)	(60)	(60)	(60)	(60)	
		3.2	3.0	2.8	2.4	1.9	1.8	1.4	



SCALE IN FEET 1 : 60



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Pole location(s) ⊕ dimensions are relative to 0.0 reference point(s) ⊗



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EQUIPMENT LAYOUT