### **Parnell Park**

Whittier,CA

#### **Lighting System**

Pole / Fixture	Pole / Fixture Summary										
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit					
S1-S4	60'	60'	4	TLC-LED-900	3.52 kW	Α					
S5-S8	50'	50'	3	TLC-LED-550	1.62 kW	В					
8			28		20.56 kW						

Circuit Summ	ary		
Circuit	Description	Load	Fixture Qty
Α	Large Soccer	14.08 kW	16
В	Small Soccer	6.48 kW	12

Fixture Type Summary							
Туре	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-900	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	16
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	12

Single Luminaire Amperage Draw Chart									
Driver (.90 min power factor)	Ma	ax Line	e Amp	erage	Per Lu	ıminai	re		
Single Phase Voltage	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		
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	-	1.4		

#### Light Level Summary

Calculation Grid Summar	Calculation Grid Summary									
Grid Name	Calculation Metric			Illumination			Circuits	Fixture Qty		
		Ave	Min	Max	Max/Min	Ave/Min				
Large Soccer	Horizontal Illuminance	32.6	22	40	1.81	1.48	Α	16		
Property Line Spill	Horizontal	0	0	0.01	0.00		A,B	28		
Property Line Spill	Max Candela (by Fixture)	16.5	0	395	0.00		A,B	28		
Property Line Spill	Max Vertical Illuminance Metric	0	0	0.02	0.00		A,B	28		
Small Soccer	Horizontal Illuminance	33.8	28	41	1.47	1.21	В	12		

## From Hometown to Professional











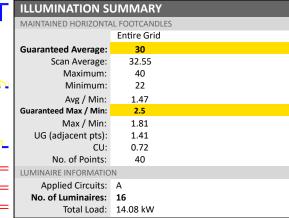
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Pole					Luminaire	5		
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS
4	S1-S4	60'	-	60'	TLC-LED-900	4	4	0
4		TOTALS					16	0

## Parnell Park

Whittier,CA



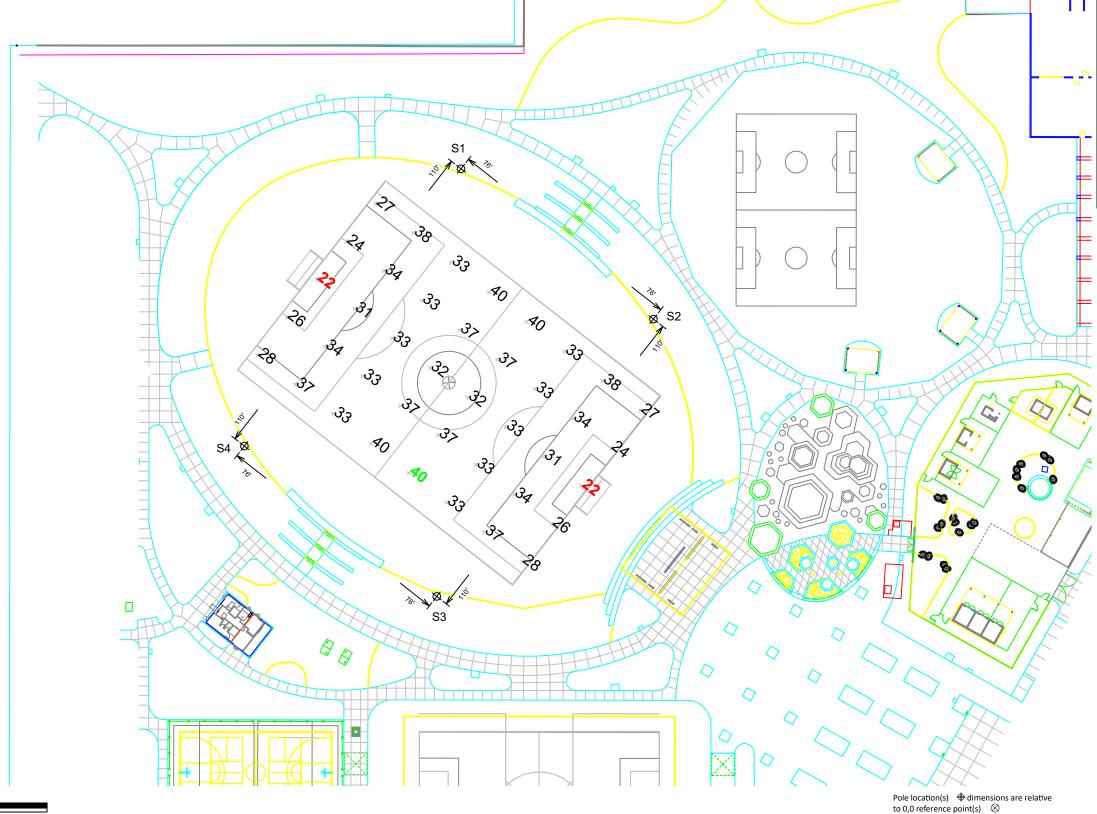


**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

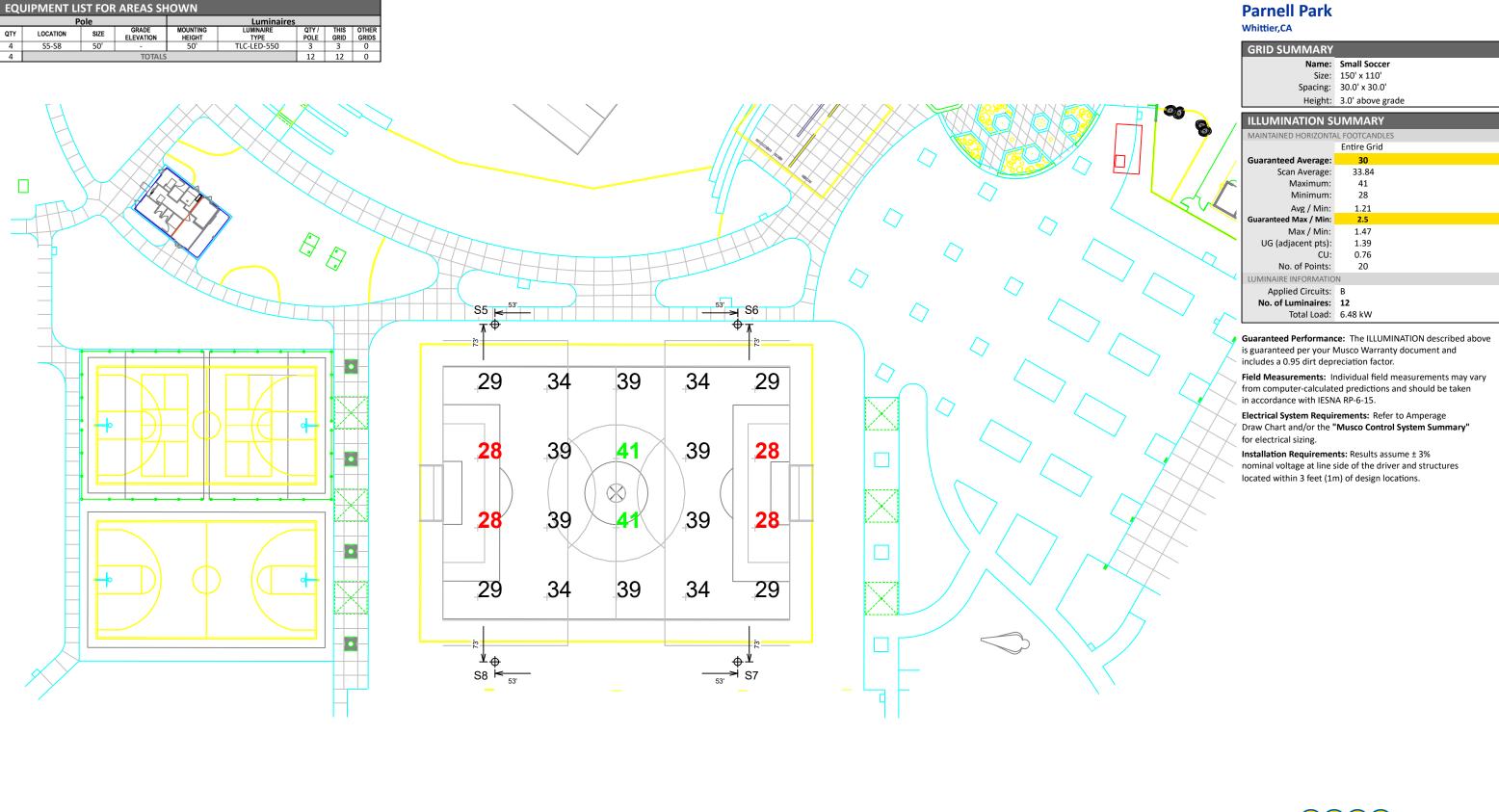
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

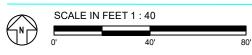
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.





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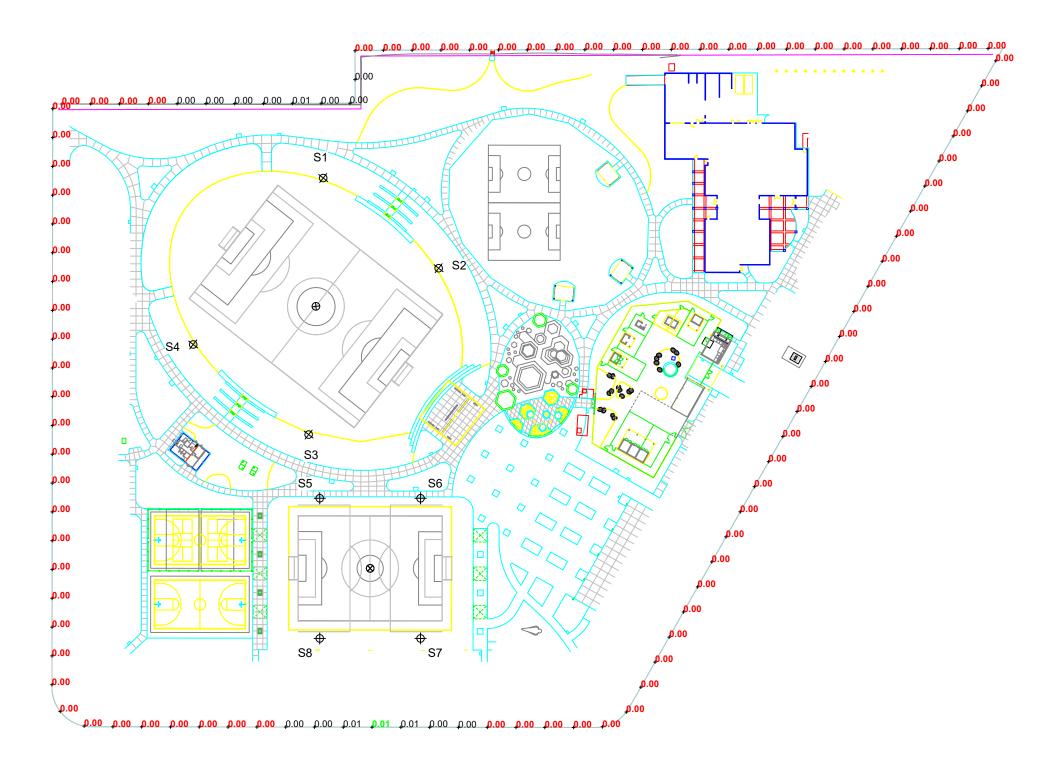






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EQI	EQUIPMENT LIST FOR AREAS SHOWN								
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
4	S1-S4	60'	-	60'	TLC-LED-900	4	4	0	
4	S5-S8	50'	-	50'	TLC-LED-550	3	3	0	
8	TOTALS						28	0	



## Parnell Park

Whittier,CA

# Rame: Spacing: Height: 30.0' 30.0' 30.0' 30.0' above grade

ILLUMINATION S	UMMARY
HORIZONTAL FOOTCAND	LES
	Entire Grid
Scan Average:	0.0004
Maximum:	0.01
Minimum:	0.00
No. of Points:	103
LUMINAIRE INFORMATIO	DN
Applied Circuits:	А, В
No. of Luminaires:	28
Total Load:	20.56 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

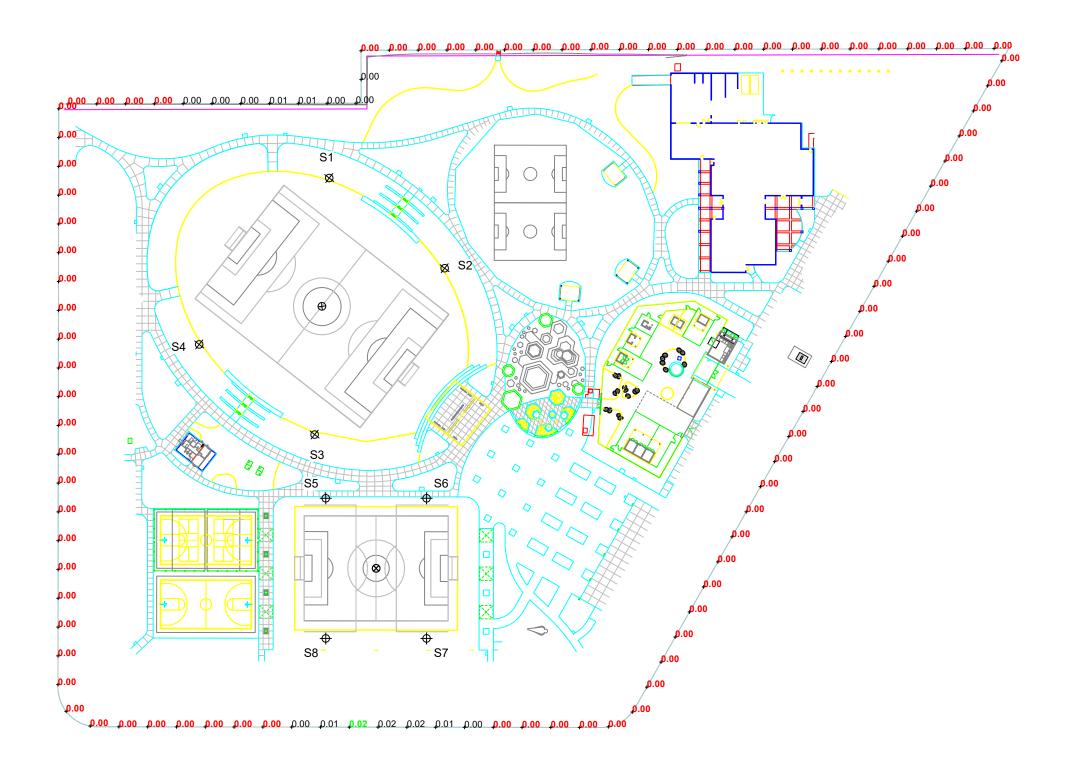
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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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EQI	EQUIPMENT LIST FOR AREAS SHOWN								
	P	ole			Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS	
4	S1-S4	60'	-	60'	TLC-LED-900	4	4	0	
4	S5-S8	50'	-	50'	TLC-LED-550	3	3	0	
8	TOTALS					28	28	0	



## **Parnell Park**

Whittier,CA

<b>GRID SUMMARY</b>	
Name:	Property Line Spill
Spacing:	30.0'
Height:	3.0' above grade

ILLUMINATION S	UMMARY	
MAX VERTICAL FOOTCAN	IDLES	
Scan Average:	Entire Grid 0.0010	
Maximum: Minimum: No. of Points:	0.02 0.00 103	
LUMINAIRE INFORMATIO	N	
Applied Circuits: <b>No. of Luminaires:</b> Total Load:	A, B <b>28</b> 20.56 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 and should be taken in accordance with IESNA RP-6-15.

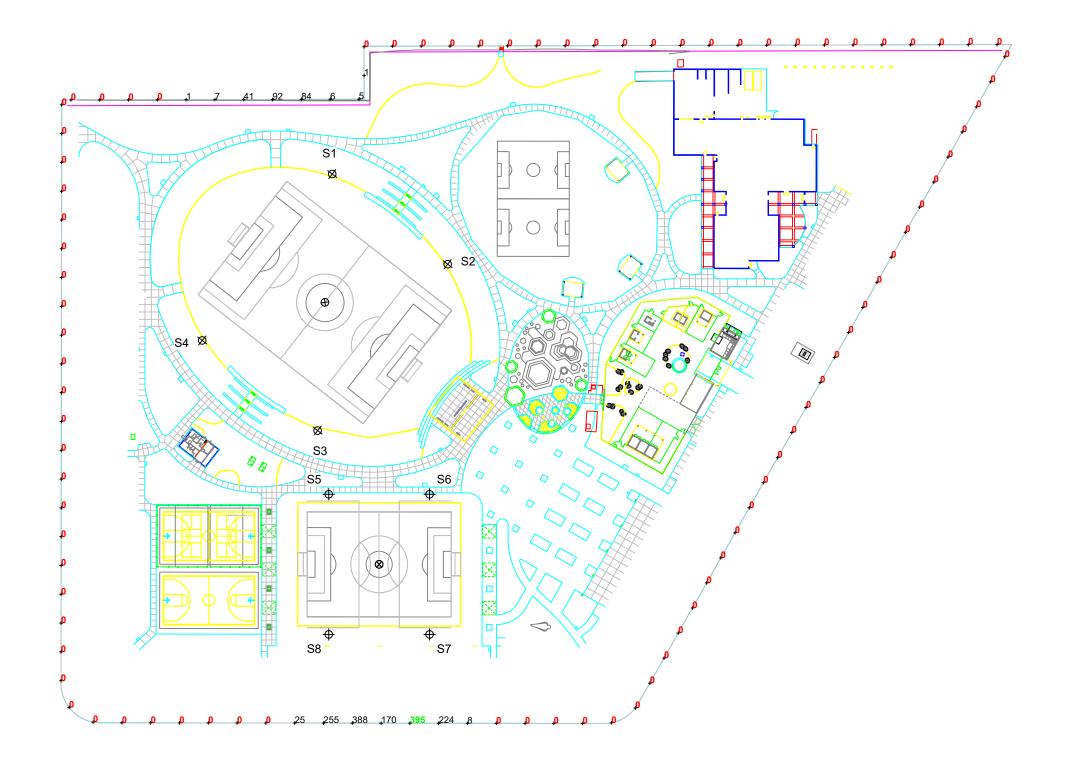
**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

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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EQUIPMENT LIST FOR AREAS SHOWN								
	P	ole			Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE	THIS GRID	OTHER GRIDS
4	S1-S4	60'	-	60'	TLC-LED-900	4	4	0
4	S5-S8	50'	-	50'	TLC-LED-550	3	3	0
8	TOTALS					28	28	0



## **Parnell Park**

#### Whittier,CA

Rame: Spacing: 30.0'
Height: 3.0' above grade

#### 

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty

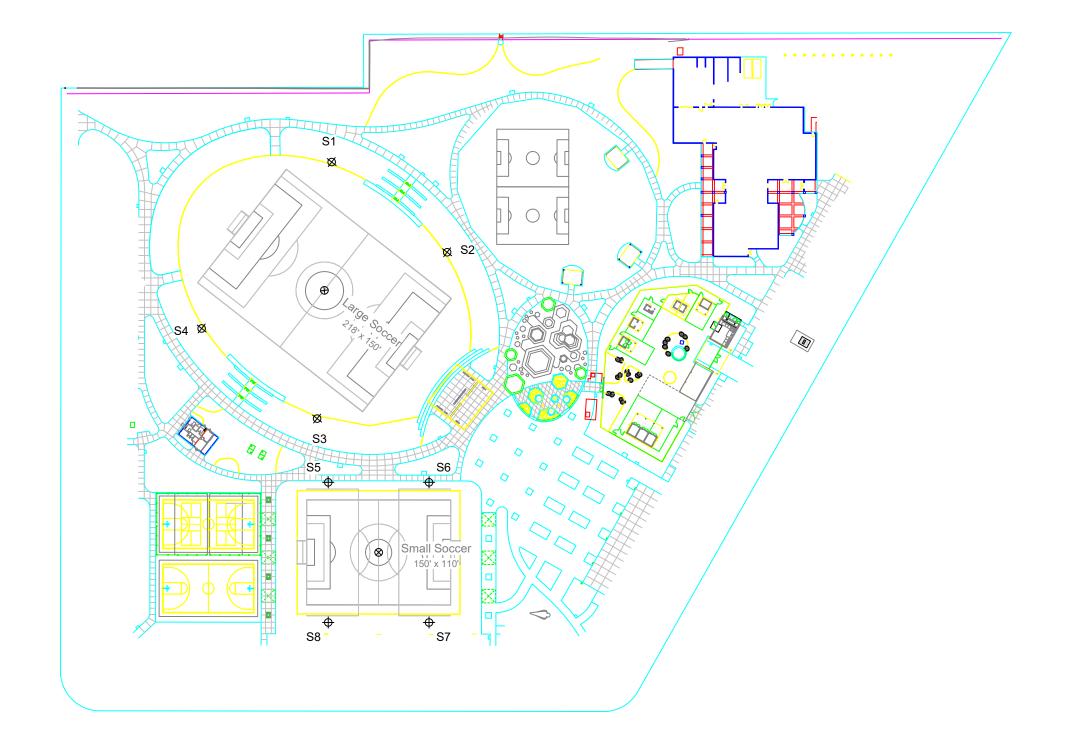
**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**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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#### **Parnell Park**

#### Whittier,CA

#### **EQUIPMENT LAYOUT**

#### INCLUDES:

· Large Soccer · Small Soccer

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

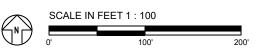
Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN											
Pole				Luminaires							
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE Type	QTY / POLE					
4	S1-S4	60'	-	60'	TLC-LED-900	4					
4	S5-S8	50'	-	50'	TLC-LED-550	3					
8	TOTALS										

SINGLE LUMINAIRE AMPERAGE DRAW CHART												
<b>Driver</b> (.90 min power factor)	Line Amperage Per Luminaire (max draw)											
Single Phase Voltage	208	220	240 (60)	277	347 (60)	380	480					
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3					
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	-	1.4					
(.90 min power factor) Single Phase Voltage FLC-LED-900	208 (60) 5.2	220 (60) 4.9	240 (60) 4.5	277 (60) 3.9	347 (60) 3.1	380 (60) 2.9	4					



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Pole location(s)  $\bigoplus$  dimensions are relative to 0,0 reference point(s)  $\bigotimes$