

Rancho Potrero Community Equestrian Center

Newbury Park, CA

Lighting System

Pole/Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
P1-P6	30'	30'	2	TLC-LED-550	1.08 kW	A
6			12		6.48 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Arena	6.48 kW	12

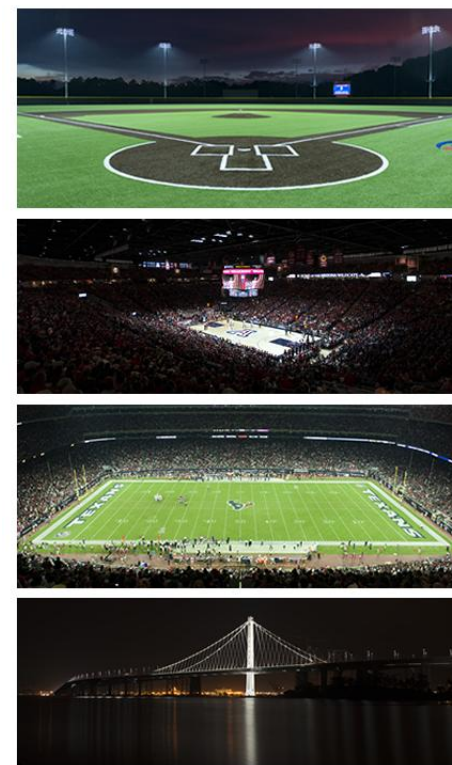
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-550	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	12

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)	
Single Phase Voltage	3.2	3.0	2.8	2.4	1.9	1.8	1.4	
TLC-LED-550								

Light Level Summary

Calculation Grid Summary									
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty	
		Ave	Min	Max	Max/Min	Ave/Min			
Arena	Horizontal Illuminance	14.66	10	19	1.89	1.46	A	12	
Blanket Grid	Horizontal	2.37	0	19	-	-	A	12	
East Property Line Spill	Horizontal	0.00	0	0	-	-	A	12	
East Property Line Spill	Max Candela (by Fixture)	0.00	0	0	-	-	A	12	
East Property Line Spill	Max Vertical Illuminance Metric	0.00	0	0	-	-	A	12	
Lynn Rd Spill	Horizontal	0.00	0	0	-	-	A	12	
Lynn Rd Spill	Max Candela (by Fixture)	0.00	0	0	-	-	A	12	
Lynn Rd Spill	Max Vertical Illuminance Metric	0.00	0	0	-	-	A	12	
North Property Line Spill	Horizontal	0.00	0	0	-	-	A	12	
North Property Line Spill	Max Candela (by Fixture)	0.00	0	0	-	-	A	12	
North Property Line Spill	Max Vertical Illuminance Metric	0.00	0	0	-	-	A	12	
South Property Line Spill	Horizontal	0.00	0	0	-	-	A	12	
South Property Line Spill	Max Candela (by Fixture)	2.25	0	129	-	-	A	12	
South Property Line Spill	Max Vertical Illuminance Metric	0.00	0	0	-	-	A	12	
West Property Line Spill	Horizontal	0.00	0	0	-	0.00	A	12	
West Property Line Spill	Max Candela (by Fixture)	0.00	0	0	-	-	A	12	
West Property Line Spill	Max Vertical Illuminance Metric	0.00	0	0	-	0.00	A	12	

From Hometown to Professional



NOTES: All fixtures in this design are dimmed to a 50% output.

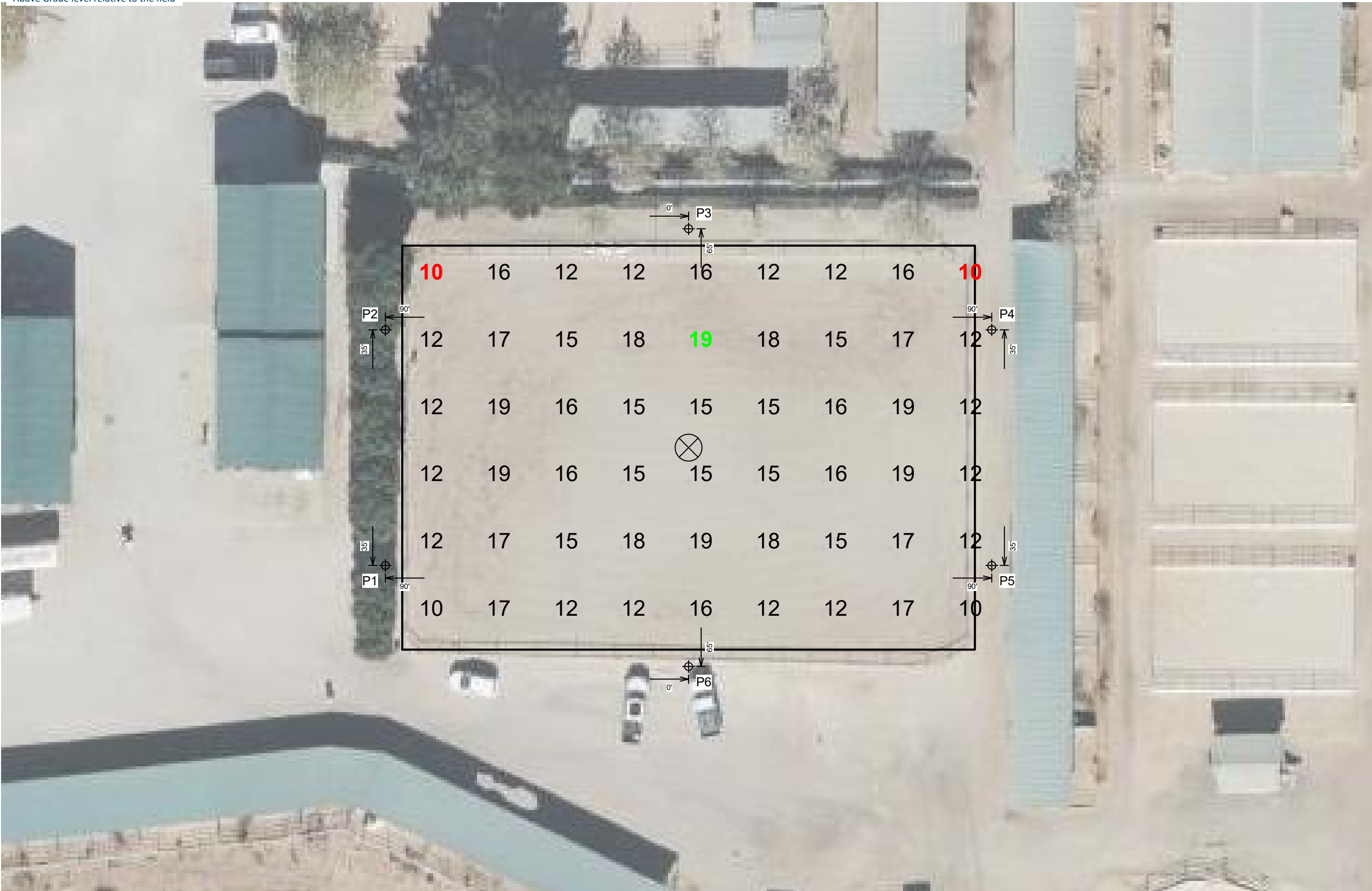


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Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



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Newbury Park, CA

Grid Summary	
Name	Arena
Size	170' x 120'
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Scan Average	14.66
Maximum	19
Minimum	10
Avg/Min	1.46
Max/Min	1.89
UG (adjacent pts)	1.61
CU	0.84
No. of Points	54
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

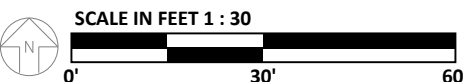
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Field Measurements: Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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.

NOTES: All fixtures in this design are dimmed to a 50% output.



ENGINEERED DESIGN By: C.Hensley • File #201822Or1-50 • 14-Jun-24

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



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ILLUMINATION SUMMARY

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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	Blanket Grid
Spacing	20.0' x 20.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	2.37
Maximum	19
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	121.23
CU	1.00
No. of Points	399
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

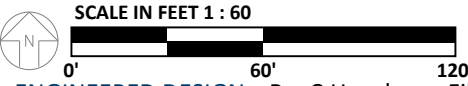
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NOTES: All fixtures in this design are dimmed to a 50% output.
Contour lines shows cutoff of horizontal light at 1.0 Fc.



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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	North Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

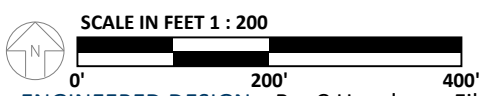
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6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

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Newbury Park, CA

Grid Summary	
Name	North Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

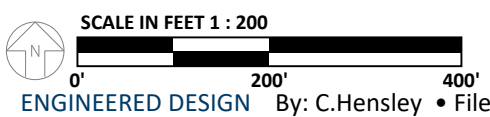
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

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Grid Summary	
Name	North Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

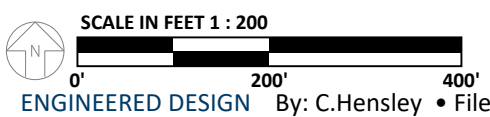
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Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



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Grid Summary	
Name	East Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	20
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

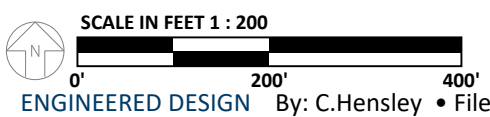
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



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Grid Summary	
Name	East Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	20
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

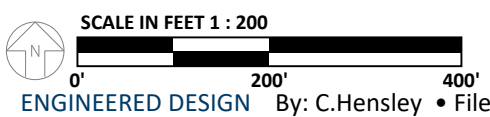
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



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Newbury Park, CA

Grid Summary	
Name	East Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	20
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

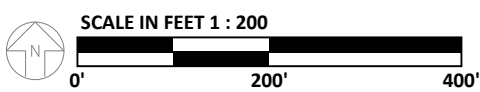
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QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	South Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	76
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

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6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

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Grid Summary	
Name	South Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	76
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

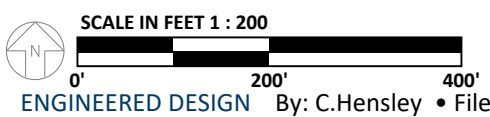
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6	Totals					12	12	0

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Grid Summary	
Name	South Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	2.25
Scan Average	2.25
Maximum	129
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
CU	0.00
No. of Points	76
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

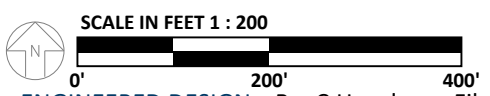
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6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

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Grid Summary	
Name	West Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	0.00
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	10
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

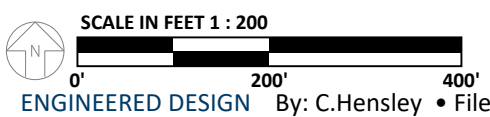
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

NOTES: All fixtures in this design are dimmed to a 50% output.



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
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	West Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	0.00
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	10
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

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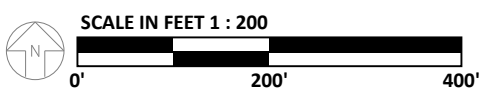
NOTES: All fixtures in this design are dimmed to a 50% output.



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ILLUMINATION SUMMARY



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

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	West Property Line Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX CANDELA (PER FIXTURE)	
Entire Grid	
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	10
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 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.

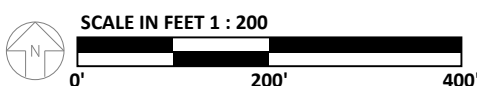
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ILLUMINATION SUMMARY



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

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	Lynn Rd Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

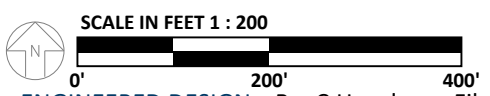
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Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

NOTES: All fixtures in this design are dimmed to a 50% output.



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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
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	Lynn Rd Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary	
MAINTAINED MAX VERTICAL FOOTCANDLES	
Entire Grid	0.00
Scan Average	0.00
Maximum	0
Minimum	0
Avg/Min	-
Max/Min	-
UG (adjacent pts)	0.00
No. of Points	69
LUMINAIRE INFORMATION	
Applied Circuits	A
No. of Luminaires	12
Total Load	6.48 kW

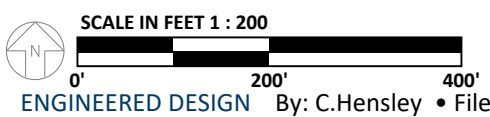
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ILLUMINATION SUMMARY

Equipment List For Areas Shown								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
6	P1-P6	30'	-	30'	TLC-LED-550	2	2	0
6	Totals					12	12	0

*Above Grade level relative to the field



Rancho Potrero Community Equestrian Center

Newbury Park, CA

Grid Summary	
Name	Lynn Rd Spill
Spacing	30.0' x 10.0'
Height	3.0' above grade

Illumination Summary		MAINTAINED MAX CANDELA (PER FIXTURE)
		Entire Grid
Scan Average	0.00	
Maximum	0	
Minimum	0	
Avg/Min	-	
Max/Min	-	
UG (adjacent pts)	0.00	
No. of Points	69	
LUMINAIRE INFORMATION		
Applied Circuits	A	
No. of Luminaires	12	
Total Load	6.48 kW	

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

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NOTES: All fixtures in this design are dimmed to a 50% output.

SCALE IN FEET 1 : 200

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ILLUMINATION SUMMARY

Rancho Potrero Community Equestrian Center

Newbury Park, CA

Equipment Layout

INCLUDES:
· Arena

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

QTY	LOCATION	Pole		Luminaires		QTY/POLE
		SIZE	GRADE ELEVATION	ABOVE GRADE LEVEL	LUMINAIRE TYPE	
6	P1-P6	30'	-	30'	TLC-LED-550	2
6	Totals					12

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)
Single Phase Voltage	3.2	3.0	2.8	2.4	1.9	1.8	1.4
TLC-LED-550							

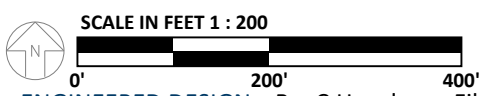


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