Rancho Potrero Community Equestrian Center
Newbury Park, CA

Lighting System

Pole/Fixture Summary

<table>
<thead>
<tr>
<th>Pole No</th>
<th>Pole Height</th>
<th>Mtg Height</th>
<th>Fixture Qty</th>
<th>Luminaire Type</th>
<th>Load</th>
<th>Circuit</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>30'</td>
<td>30'</td>
<td>1</td>
<td>TLC-LED-400</td>
<td>1.46 kW</td>
<td>A</td>
</tr>
<tr>
<td>P5-P6</td>
<td>30'</td>
<td>30'</td>
<td>3</td>
<td>TLC-LED-400</td>
<td>1.20 kW</td>
<td>A</td>
</tr>
</tbody>
</table>

Circuit Summary

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Description</th>
<th>Load</th>
<th>Fixture Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Arena 1</td>
<td>8.64 kW</td>
<td>18</td>
</tr>
</tbody>
</table>

Fixture Type Summary

<table>
<thead>
<tr>
<th>Fixtures</th>
<th>Source</th>
<th>Wattage</th>
<th>CRI</th>
<th>L90</th>
<th>L80</th>
<th>L70</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLC-LED-600</td>
<td>LED 5700K - 75 CRI</td>
<td>580W</td>
<td>66</td>
<td>&gt;120,000</td>
<td>&gt;120,000</td>
<td>&gt;120,000</td>
<td>8</td>
</tr>
<tr>
<td>TLC-LED-400</td>
<td>LED 5700K - 75 CRI</td>
<td>400W</td>
<td>66</td>
<td>&gt;120,000</td>
<td>&gt;120,000</td>
<td>&gt;120,000</td>
<td>10</td>
</tr>
</tbody>
</table>

Light Level Summary

| Grid Name | Calculation Metric | Min | Max | Min | Max | Ave | Min | Max | Ave | Max/Min | Ave/Min | Circuits | Fixture Qty |
|-----------|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|---------|-----------|-------------|
| Arena 1 Blanket Grid | Horizontal | 4.23 | 47 | 3794.25 | A | 18 | |
| Arena 1 | Horizontal Illuminance | 22.9 | 40 | 4.40 | 2.39 | A | 18 |
| Property Line Spill | Horizontal | 0.03 | 0.35 | 0.00 | A,B | 18 |
| Property Line Spill | Max Candela (by Fixture) | 9498 | 0 | 31886 | 0.00 | A,B | 18 |
| Property Line Spill | Max Vertical Illuminance Metric | 0.25 | 0 | 1.25 | 0.00 | A,B | 18 |
| Spill @ Houses | Horizontal | 0 | 0.57 | 0.00 | A,B | 18 |
| Spill @ Houses | Max Candela (by Fixture) | 7198 | 0.46 | 21652 | 66023.63 | A,B | 18 |
| Spill @ Houses | Max Vertical Illuminance Metric | 0.04 | 0 | 0.79 | 0.00 | A,B | 18 |
| Spill @ Street | Horizontal | 0.03 | 0.35 | 0.00 | A,B | 18 |
| Spill @ Street | Max Candela (by Fixture) | 8292 | 0 | 22293 | 0.00 | A,B | 18 |
| Spill @ Street | Max Vertical Illuminance Metric | 0.11 | 0 | 0.39 | 0.00 | A,B | 18 |
**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>Size</th>
<th>Grade</th>
<th>Elevation</th>
<th>Mounting</th>
<th>Height</th>
<th>Luminaires</th>
<th>QTY</th>
<th>THIS GRID</th>
<th>OTHER GRIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1-P4</td>
<td>30'</td>
<td>-</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>1</td>
<td></td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>P5-P6</td>
<td>30'</td>
<td>-</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**TOTALS**

- **QTY**: 18
- **POLE**: 18
- **THIS GRID**: 0
- **OTHER GRIDS**: 0

---

**GRID SUMMARY**

- **Name**: Arena 1
- **Size**: 300' x 120'
- **Spacing**: 20.0' x 20.0'
- **Height**: 3.0' above grade

**ILLUMINATION SUMMARY**

- **Guaranteed Average**: 22.94
- **Scan Average**: 22.94
- **Maximum**: 46
- **Minimum**: 10
- **Avg / Min**: 2.20
- **Ensured Max / Min**: 4
- **HI (adjacent pts)**: 3.28
- **CL**: 0.85
- **No. of Points**: 90

**LUMINAIRE INFORMATION**

- **Applied Circuits**: A
- **No. of Luminaires**: 18
- **Total Load**: 8.64 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.
Rancho Potrero Community Equestrian Center
Newbury Park, CA

GRID SUMMARY

Name: Property Line Spill
Spacing: 30.0' Height: 3.0' above grade

ILLUMINATION SUMMARY

HORIZONTAL FOOTCANDLES

<table>
<thead>
<tr>
<th>Entire Grid</th>
<th>Scan Average</th>
<th>Maximum</th>
<th>Minimum</th>
<th>No. of Points</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0.0256</td>
<td>0.15</td>
<td>0.00</td>
<td>100</td>
</tr>
</tbody>
</table>

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.
**ILLUMINATION SUMMARY**

**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.
<table>
<thead>
<tr>
<th>Pole</th>
<th>QTY</th>
<th>LOCATION</th>
<th>SIZE</th>
<th>ELEVATION</th>
<th>RANGE</th>
<th>MOUNTING</th>
<th>HEIGHT</th>
<th>LUMINAIRE TYPE</th>
<th>QTY / POLE</th>
<th>THIS GRID</th>
<th>OTHER GRID(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>4</td>
<td>P1-P4</td>
<td>30'</td>
<td>-30'</td>
<td>30'-30'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>P5-P6</td>
<td>2</td>
<td>P5-P6</td>
<td>30'</td>
<td>-30'</td>
<td>30'-30'</td>
<td>TLC-LED-600</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

**GRID SUMMARY**
- **Name:** Property Line Spill
- **Spacing:** 30.0'
- **Height:** 3.0' above grade

**ILLUMINATION SUMMARY**
- **Scan Average:** 9407.5381
- **Maximum:** 31895.57
- **Minimum:** 0.00
- **No. of Points:** 109

**LUMINAIRE INFORMATION**
- **Applied Circuits:** A, B
- **No. of Luminaires:** 18
- **Total Load:** 8.64 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.
### Rancho Potrero Community Equestrian Center
Newbury Park, CA

#### GRID SUMMARY

- **Name:** Spill @ Street
- **Spacing:** 30.0’
- **Height:** 3.0’ above grade

#### ILLUMINATION SUMMARY

**HORIZONTAL FOOTCANDLES**
- **Entire Grid**
  - Scan Average: 0.0081
  - Maximum: 0.03
  - Minimum: 0.00
  - No. of Points: 100

**LUMINAIRE INFORMATION**
- **Applied Circuits:** A, B
- **No. of Luminaires:** 18
- **Total Load:** 8.64 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.

---

**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>Pole</th>
<th>LOCATION</th>
<th>QTY</th>
<th>LOCATION</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING</th>
<th>Height</th>
<th>LUMINAIRE</th>
<th>QTY / POLE</th>
<th>THIS GRID</th>
<th>OTHER GRIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>P1-P4</td>
<td>1</td>
<td>TLC-LED-400</td>
<td>30’-30’</td>
<td>30’</td>
<td>30’</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>P2</td>
<td>P5-P6</td>
<td>3</td>
<td>TLC-LED-400</td>
<td>30’-30’</td>
<td>30’</td>
<td>30’</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>
**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>Model</th>
<th>Height</th>
<th>Grade</th>
<th>Elevation</th>
<th>Mounting</th>
<th>Height</th>
<th>LUMINAIRE TYPE</th>
<th>QTY / POLE</th>
<th>THIS GRID</th>
<th>OTHER GRIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>20'</td>
<td>TLC-LED-400</td>
<td>30'</td>
<td>30'</td>
<td>30'</td>
<td>TLC-LED-600</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>P5-P6</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>30'</td>
<td>30'</td>
<td>30'</td>
<td>TLC-LED-600</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**GRID SUMMARY**

- **Name:** Spill @ Street
- **Spacing:** 30.0’
- **Height:** 3.0’ above grade

**ILLUMINATION SUMMARY**

- **Scan Average:** 0.1113
- **Maximum:** 0.39
- **Minimum:** 0.00
- **No. of Points:** 109

**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.
EQUIPMENT LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>Min.</th>
<th>Elevation</th>
<th>Luminaire</th>
<th>Width</th>
<th>Height</th>
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<tbody>
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<td>1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>TLC-LED-600</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>P5</td>
<td>P6</td>
<td>30'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>0</td>
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</tbody>
</table>

SCALE IN FEET 1: 150

GRID SUMMARY

Name: Spill @ Street  
Spacing: 30.0'  
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDIDA (PER FIXTURE)

Scan Average: 8249.9053  
Maximum: 22393.21  
Minimum: 0.00  
No. of Points: 100

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.
Rancho Potrero Community Equestrian Center
Newbury Park, CA

GRID SUMMARY
Name: Spill @ Houses
Spacing: 30.0’
Height: 3.0’ above grade

ILLUMINATION SUMMARY
Entire Grid
Scan Average: 0.021
Minimum: 0.00
Maximum: 0.01
No. of Points: 54

APPLIED CIRCUITS: A, B

TOTAL LOAD: 8.64 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.
**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>Min Elevation</th>
<th>Max Elevation</th>
<th>Model</th>
<th>Qty</th>
<th>Pole</th>
<th>Pole</th>
<th>Pole</th>
<th>Pole</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
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</tr>
<tr>
<td>P2</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>2</td>
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<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>P3</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>3</td>
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<tr>
<td>P4</td>
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<td>0'</td>
<td>0'</td>
<td>TLC-LED-600</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>P5</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>P6</td>
<td>0'</td>
<td>0'</td>
<td>0'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

**GRID SUMMARY**

- **Name**: Spill @ Houses
- **Spacing**: 30.0'
- **Height**: 3.0' above grade

**ILLUMINATION SUMMARY**

- **Scan Average**: 0.0366
- **Maximum**: 0.19
- **Minimum**: 0.00
- **No. of Points**: 54
- **Applied Circuits**: A, B
- **No. of Luminaires**: 18
- **Total Load**: 8.64 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.
EQUIPMENT LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>QTY</th>
<th>LOCATION</th>
<th>ELEVATION</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING</th>
<th>HEIGHT</th>
<th>LUMINAIRE</th>
<th>QTY / POLE</th>
<th>THIS GRID</th>
<th>OTHER GRIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>3</td>
<td>P1-P4</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P1-P4</td>
<td>2</td>
<td>P1-P4</td>
<td>30'</td>
<td>TLC-LED-600</td>
<td>2</td>
<td>0</td>
<td>0</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>P5-P6</td>
<td>6</td>
<td>P5-P6</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SCALE IN FEET 1 : 200

Pole location(s) 4-dimensions are relative to (L) reference plane(s)

GRID SUMMARY

Name: Spill @ Houses
Spacing: 30.0'
Height: 3.0' above grade

ILLUMINATION SUMMARY

CANDELA (PER FIXTURE)

Scan Average: 7197.9595
Maximum: 21652.07
Minimum: 0.46
No. of Points: 54

LUMINAIRE INFORMATION

Applied Circuits: A, B
No. of Luminaires: 18
Total Load: 8.64 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.
EQUIPMENT LAYOUT

INCLUDES:

- Arena 1

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

<table>
<thead>
<tr>
<th>SET</th>
<th>LOCATION</th>
<th>QTY</th>
<th>LOCATION</th>
<th>QTY</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING HEIGHT</th>
<th>LUMINAIRE TYPE</th>
<th>QTY / POLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1-P4</td>
<td>4</td>
<td>P5-P6</td>
<td>2</td>
<td>30' - 30'</td>
<td>30'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

SINGLE LUMINAIRE AMPERAGE DRAW CHART:

<table>
<thead>
<tr>
<th>Single Phase Voltage</th>
<th>208V (60)</th>
<th>220V (60)</th>
<th>240V (60)</th>
<th>277V (60)</th>
<th>347V (60)</th>
<th>380V (60)</th>
<th>480V (60)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TLC-LED-600</td>
<td>3.4</td>
<td>3.2</td>
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