## Lighting System

### Pole & Fixture Summary

<table>
<thead>
<tr>
<th>Pole ID</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>50'</td>
<td>57'</td>
<td>1</td>
<td>TLC LED-400</td>
<td>0.40 kW</td>
<td>A</td>
</tr>
<tr>
<td>P1-P6</td>
<td>50'</td>
<td>57'</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>0.54 kW</td>
<td>16</td>
</tr>
</tbody>
</table>

### Fixture Type Summary

<table>
<thead>
<tr>
<th>Type</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>600W</td>
<td>〈65</td>
<td>〈120,000</td>
<td>〉120,000</td>
<td>〈120,000</td>
<td>8</td>
</tr>
<tr>
<td>TLC LED-400</td>
<td>LED 5700K - 75 CRI</td>
<td>400W</td>
<td>〈65</td>
<td>〈120,000</td>
<td>〉120,000</td>
<td>〈120,000</td>
<td>10</td>
</tr>
</tbody>
</table>

### Light Level Summary

#### Calculation Grid Summary

<table>
<thead>
<tr>
<th>Grid Name</th>
<th>Calculation Metric</th>
<th>Min</th>
<th>Max</th>
<th>Min/MAX</th>
<th>Max/MAX</th>
<th>Circuits</th>
<th>Fixture Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arena 1 150' Spill</td>
<td>Horizontal Illuminance</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A</td>
<td>18</td>
</tr>
<tr>
<td>Arena 1 150' Spill</td>
<td>Max Candela Metric</td>
<td>0.07</td>
<td>0</td>
<td>462.00</td>
<td>0.00</td>
<td>A</td>
<td>18</td>
</tr>
<tr>
<td>Arena 1 150' Spill</td>
<td>Max Vertical Illuminance Metric</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A</td>
<td>18</td>
</tr>
<tr>
<td>Arena 1 Blanket Grid</td>
<td>Horizontal</td>
<td>4.24</td>
<td>0</td>
<td>30.00</td>
<td>0.00</td>
<td>A</td>
<td>18</td>
</tr>
<tr>
<td>Arena 1</td>
<td>Horizontal Illuminance</td>
<td>22.4</td>
<td>18</td>
<td>25.17</td>
<td>1.78</td>
<td>1.40</td>
<td>A</td>
</tr>
<tr>
<td>Property Line Spill</td>
<td>Horizontal</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Property Line Spill</td>
<td>Max Candela (by Fixture)</td>
<td>666</td>
<td>0</td>
<td>4444.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Property Line Spill</td>
<td>Max Vertical Illuminance Metric</td>
<td>0.01</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Houses</td>
<td>Horizontal</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Houses</td>
<td>Max Candela (by Fixture)</td>
<td>0.86</td>
<td>0</td>
<td>8.85</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Houses</td>
<td>Max Vertical Illuminance Metric</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Street</td>
<td>Horizontal</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Street</td>
<td>Max Candela (by Fixture)</td>
<td>6.95</td>
<td>0</td>
<td>136.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
<tr>
<td>Spill @ Street</td>
<td>Max Vertical Illuminance Metric</td>
<td>0</td>
<td>0</td>
<td>0.00</td>
<td>0.00</td>
<td>A,B</td>
<td>18</td>
</tr>
</tbody>
</table>
**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>Pole</th>
<th>Luminaires</th>
<th>QTY</th>
<th>LOCATION</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING</th>
<th>HEIGHT</th>
<th>LUMINAIRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>P4-P5</td>
<td>50'</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TLC-LED-600</td>
</tr>
<tr>
<td>P5</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>P6-P6</td>
<td>50'</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>TLC-LED-600</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>TOTALS</td>
<td>18</td>
<td></td>
<td></td>
<td>18</td>
<td>0</td>
<td>18</td>
<td></td>
<td>TOTALS</td>
</tr>
</tbody>
</table>

**GRID SUMMARY**

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

**ILLUMINATION SUMMARY**

- **Guaranteed Average:** 22.44
- **Minimum:** 16
- **Maximum:** 28
- **Avg / Min:** 1.44
- **UG (adjacent pts):** 1.33
- **CU:** 0.83
- **No. of Points:** 90
- **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.
**EQUIPMENT LIST FOR AREAS SHOWN**

<table>
<thead>
<tr>
<th>PQTY</th>
<th>LOCATION</th>
<th>ELEVATION</th>
<th>ELEVATION-BASED TYPE</th>
<th>LOCATION-BASED TYPE</th>
<th>TOTALS</th>
<th>GRID</th>
<th>GRIDS</th>
<th>GRID SUMMARY</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>P5-P6</td>
<td>0'</td>
<td>Pole Luminaires</td>
<td>TLC-LED-400</td>
<td>60'</td>
<td>2</td>
<td>2</td>
<td>Arena 1 Blanket Grid</td>
</tr>
<tr>
<td>2</td>
<td>P1-P4</td>
<td>0'</td>
<td>Pole Luminaires</td>
<td>TLC-LED-600</td>
<td>60'</td>
<td>2</td>
<td>2</td>
<td>Arena 1 Blanket Grid</td>
</tr>
</tbody>
</table>

**ILLUMINATION SUMMARY**

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

**Electrical System Requirements:**

- **Total Load:** 8.64 kW
- **Maximum:** 30
- **Avg / Min:** -
- **No. of Poles:** 8
- **No. of Luminaires:** 18

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.05 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.

**Musco Control System Summary**

- **Scan Average:**
- **Total Load:** 8.64 kW

**Additional Information**:

- **Applied Circuits:** A
- **Number of Luminaires:** 18

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**ENGINEERED DESIGN**

- **By:** C. Hensley
- **File #:** 2018222
- **Date:** 15-Nov-21

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**Rancho Potrero Community Equestrian Center**

**Newbury Park, CA**
Rancho Potrero Community Equestrian Center
Newbury Park, CA

GRID SUMMARY
Name: Arena 1 150’ Spill
Spacing: 30.0’
Height: 3.0’ above grade

ILLUMINATION SUMMARY
HORIZONTAL FOOTCANDLES
Entire Grid
Scan Average: 0.0002
Maximum: 0.00
Minimum: 0.00
No. of Points: 60

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.

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:** Arena 1 SID Spill
- **Spacing:** 30.07 feet
- **Height:** 3.17 feet above grade

**ILLUMINATION SUMMARY**

- **MAX VERTICAL FOOTCANDLES**
  - **Scan Average:** 0.0012
  - **Maximum:** 0.01
  - **Minimum:** 0.00
  - **No. of Points:** 60

- **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>Luminaires</th>
<th>Location</th>
<th>Size (ft)</th>
<th>Grade (ft)</th>
<th>Elevation (ft)</th>
<th>Mounting Height (ft)</th>
<th>Luminaires Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>TLC-LED-400, TLC-LED-600</td>
<td>P1-P4</td>
<td>50'</td>
<td>-50'</td>
<td>50'</td>
<td>TLC-LED-400, TLC-LED-600</td>
<td>1</td>
</tr>
<tr>
<td>P5-P6</td>
<td>TLC-LED-400</td>
<td>P5-P6</td>
<td>50'</td>
<td>-50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>3</td>
</tr>
</tbody>
</table>

**TOTALS**

- **18** Luminaires
- **18** Pole Locations

**GRID SUMMARY**

- **Name:** Arena 1 SID Spill
- **Spacing:** 30.0' Spacing
- **Height:** 3.0' above grade

**ILLUMINATION SUMMARY**

- **Candela (Per Fixture)**
  - **Scan Average:** 96.9613
  - **Maximum:** 461.74
  - **Minimum:** 0.00
  - **No. of Points:** 60

**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.

**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.

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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 HEIGHT</th>
<th>LUMINAIRE TYPE</th>
<th>QTY / POLE</th>
<th>THIS GRID</th>
<th>OTHER GRIDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>P2-P4</td>
<td>50' - 50'</td>
<td>50'</td>
<td>50'</td>
<td>2</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>P5</td>
<td>P6</td>
<td>50' - 50'</td>
<td>50'</td>
<td>50'</td>
<td>3</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

TOTALS: 18 Luminaires

GRID SUMMARY

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

ILLUMINATION SUMMARY

Horizontal Footcandles
Scan Average: 0.0017
Maximum: 0.02
Minimum: 0.00
No. of Points: 100

Luminaires 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 Ampere 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

MAX VERTICAL FOOTCANDLES
Operation Grid:
Scan Average: 0.0086
Maximum: 0.09
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.
### EQUIPMENT LIST FOR AREAS SHOWN

**Pole Location**

<table>
<thead>
<tr>
<th>Pole</th>
<th>QTY</th>
<th>LOCATION</th>
<th>Size (FT)</th>
<th>Grade</th>
<th>Elev. (FT)</th>
<th>Mounting Height (FT)</th>
<th>Luminaires Type</th>
<th>Pole Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>4</td>
<td>P1-P4</td>
<td>50'</td>
<td>-</td>
<td>0</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>P1-P4</td>
</tr>
<tr>
<td>P5-P6</td>
<td>2</td>
<td>P5-P6</td>
<td>50'</td>
<td>-</td>
<td>0</td>
<td>50'</td>
<td>TLC-LED-600</td>
<td>P3-P6</td>
</tr>
</tbody>
</table>

### GRID SUMMARY

- **Name:** Property Line Spill
- **Spacing:** 30.0’
- **Height:** 3.0’ above grade

### ILLUMINATION SUMMARY

- **Total Points:** 109
- **Scan Average:** 266.4857
- **Maximum:** 4443.60
- **Minimum:** 0.00
- **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.

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EQUIPMENT LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>LOCATION</th>
<th>QTY</th>
<th>SIZE</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>P4</td>
<td>P1-P4</td>
<td>4</td>
<td>50'</td>
<td>-50'</td>
<td>-50'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>P3</td>
<td>P5-P6</td>
<td>6</td>
<td>50'</td>
<td>-50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

TOTALS: 18 18 0

GRID SUMMARY

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

ILLUMINATION SUMMARY

Horizontal Footcandles
Scan Average: 0.0000
Minimum: 0.00
Maximum: 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>Size</th>
<th>Grade</th>
<th>Elevation</th>
<th>Mounting</th>
<th>Height</th>
<th>Luminarie Type</th>
<th>Qty / Pole</th>
<th>This Grid</th>
<th>Other Grids</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>P1-P4</td>
<td>50'</td>
<td>50'</td>
<td>TGC-400</td>
<td>TGC-600</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P5-P6</td>
<td>P5-P6</td>
<td>50'</td>
<td>50'</td>
<td>TGC-400</td>
<td>TGC-600</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

TOTALS

Good lighting conditions for the given areas.

GRID SUMMARY
Name: Spill @ Street
Spacing: 30.0'
Height: 30.0' above grade

ILLUMINATION SUMMARY
Maximum Vertical Footcandles:
- En-tire Grid: Scan Average: 0.0001, Maximum: 0.00, 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.

Rancho Potrero Community Equestrian Center
Newbury Park, CA

We Make It Happen.

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Rancho Potrero Community Equestrian Center
Newbury Park, CA

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

ILLUMINATION SUMMARY
CANDELA (PER FIXTURE)
Scan Average: 6.6560
Maximum: 156.36
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.

EQUIPMENT LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>MIN</th>
<th>MAX</th>
<th>Elevation</th>
<th>Size</th>
<th>Grade</th>
<th>Location</th>
<th>Mounting</th>
<th>Height</th>
<th>Luminaires</th>
<th>QTY / POLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>P1-P4</td>
<td>50'</td>
<td>50'</td>
<td>T/L-LED-400</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>P5-P6</td>
<td>P5-P6</td>
<td>50'</td>
<td>50'</td>
<td>T/L-LED-600</td>
<td>3</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

TOTALS: 18

Pole location(s) and dimensions are relative to 0,0 reference point(s).

SCALE IN FEET: 1 - 120
### EQUIPMENT LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>QTY</th>
<th>LOCATION</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING</th>
<th>HEIGHT</th>
<th>LUMINAIRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>4</td>
<td>P1-P4</td>
<td>50'</td>
<td>-50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>P5-P6</td>
<td>2</td>
<td>P5-P6</td>
<td>50'</td>
<td>-50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
</tr>
</tbody>
</table>

### GRID SUMMARY

- **Name:** Spill @ Houses
- **Spacing:** 30.0'
- **Height:** 3.07' above grade

### ILLUMINATION SUMMARY

- **Horizontal Footcandles**
  - Scan Average: 0.0000
  - Maximum: 0.00
  - Minimum: 0.00
  - 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 LIST FOR AREAS SHOWN

<table>
<thead>
<tr>
<th>Pole</th>
<th>Location</th>
<th>IN</th>
<th>OUT</th>
<th>Grades</th>
<th>Size</th>
<th>Mounting Height</th>
<th>Pole Type</th>
<th>QTY</th>
<th>Pole(s)</th>
<th>Dimensions</th>
<th>Other Grids</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>P1-P4</td>
<td></td>
<td></td>
<td>-0-0</td>
<td>50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>1</td>
<td>0-0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>P5-P6</td>
<td></td>
<td></td>
<td>-0-0</td>
<td>50'</td>
<td>50'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>3</td>
<td>0-0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### GRID SUMMARY
- **Name**: Spill @ Houses
- **Spacing**: 30.0' above grade
- **Temperature**: 3.0' above grade

### ILLUMINATION SUMMARY
- **Max Vertical Footcandles**:
  - **Scan Average**: 0.0000
  - **Maximum**: 0.00
  - **Minimum**: 0.00
  - **No. of Points**: 54
- **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**: Result assumes ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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**Rancho Potrero Community Equestrian Center**
**Newbury Park, CA**

**ENGINEERED DESIGN**  
By: C. Hensley - File #201822H - 15-Nov-21
### 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>Luminaire Type</th>
<th>Qty / Pole</th>
<th>Other Grids</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1-P4</td>
<td>30.0'-50.0'</td>
<td>50.0'-50.0'</td>
<td>TLC-LED-400</td>
<td>1</td>
<td>2, 1</td>
<td>20.0'</td>
<td>TLC-LED-600</td>
<td>2</td>
<td>1, 3</td>
</tr>
<tr>
<td>P5-P6</td>
<td>30.0'-50.0'</td>
<td>50.0'-50.0'</td>
<td>TLC-LED-400</td>
<td>3</td>
<td>0</td>
<td>0.0'</td>
<td></td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 18 Luminaires

---

### Grid Summary

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

### Illumination Summary

- **Scan Average:** 0.8602
- **Maximum:** 8.85
- **Minimum:** 0.00
- **No. of Points:** 54

### Luminaires Information

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

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**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

300’ x 120’

P4

P3

P6

P1

P2

P5

SCALE IN FEET 1 : 150

0’

150’

300’

Rancho Potrero Community Equestrian Center
Newbury Park, CA

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

Pole Luminaires

<table>
<thead>
<tr>
<th>QTY</th>
<th>LOCATION</th>
<th>SIZE</th>
<th>GRADE</th>
<th>ELEVATION</th>
<th>MOUNTING HEIGHT</th>
<th>LUMINAIRE TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>P1-P4</td>
<td>50’-</td>
<td>50’</td>
<td>50’</td>
<td>TLC-LED-400</td>
<td>TLC-LED-600</td>
</tr>
<tr>
<td>2</td>
<td>P5-P6</td>
<td>50’-</td>
<td>50’</td>
<td>50’</td>
<td>TLC-LED-400</td>
<td></td>
</tr>
</tbody>
</table>

TOTALS

18

SINGLE LUMINARE AMPERAGE DRAW CHART:

<table>
<thead>
<tr>
<th>Single Phase Voltage</th>
<th>208</th>
<th>220</th>
<th>240</th>
<th>277</th>
<th>347</th>
<th>380</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line Amperage Per Luminaire (max draw)</td>
<td>3.4</td>
<td>3.2</td>
<td>3.0</td>
<td>2.6</td>
<td>2.0</td>
<td>1.9</td>
</tr>
</tbody>
</table>

INSTALLER SPECIFICATIONS (90% power factor)

Musco Lighting LLC

We Make It Happen.