

# Quote

Date: November 1, 2023  
Expiration date: December 31, 2023  
To: Aransas Pass ISD

Project: Aransas Pass High School Football  
Aransas Pass, TX  
Musco Project Number: 207735

## BuyBoard

Master Project: 218434, Contract Number: 677-22, Expiration: 09/30/2023  
Commodity: Parks and Sports Field Lighting Products and Installation Services

All purchase orders should note the following:  
BuyBoard purchase – Contract Number: 677-22

### Quotation Price – Materials Delivered to Job Site and Installation

---

#### Football with Track – 360' x 160'

**OPTION 1: 50 foot-candles - SportsCluster® system.....\$ 280,000**

**\*\*Re-use existing poles**

**OPTION 2: 40 foot-candles - Light-Structure System™ .....\$ 375,000**

**\*\* (4) New poles**

Sales tax is not included.  
Quote is confidential.

### OPTION 1: SportsCluster® system with Total Light Control – TLC for LED™ technology

---

#### Guaranteed Lighting Performance

- Guaranteed light levels
- BallTracker® technology – targeted light, optimizing visibility of the ball in play with no glare in the players typical line-of-sight

#### System Description

- Factory aimed and assembled luminaires, including BallTracker® luminaires
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures
- Mounting hardware for poletop luminaire assemblies and electrical components enclosures
- Disconnects
- UL listed assemblies
- Enhanced corrosion protection

### OPTION 2: Light-Structure System™ with Total Light Control – TLC for LED™ technology

---

#### Guaranteed Lighting Performance

- Guaranteed light levels of 40fc and uniformity of 2:1
- BallTracker® technology – targeted light, optimizing visibility of the ball in play with no glare in the players typical line-of-sight

#### System Description

- Factory aimed and assembled luminaries, including BallTracker® luminaires
- (4) Galvanized steel poles
- (4) Pre-cast concrete bases with integrated lightning grounding
- Pole length factory assembled wire harnesses
- Factory wired and tested remote electrical component enclosures



## Quote

- UL listed assemblies
- Enhanced corrosion protection

### Control Systems and Services

- Control-Link® control and monitoring system to provide remote on/off and dimming (high/medium/low) control and performance monitoring with 24/7 customer support

### Operation and Warranty Services

- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs - OPTION 1: 10 years OPTION 2: 25 years
- Support from Musco's Lighting Services Team – over 170 Team members dedicated to operating and maintaining your lighting system

### Musco Scope

---

- Provide design and layout for lighting system
- Test and final aim equipment

### Installation Services Provided

[See attached scope of work]

### Responsibilities of Buyer

---

- Confirm pole or luminaire locations, supply voltage and phase required for lighting system prior to production
- Provide electrical design and materials for electrical distribution system
- Buyer is responsible for getting electrical power to the site, coordination with the utility, and any power company fees
- The owner of the field is responsible for the structural integrity of the existing poles and/or structures

### Payment Terms

---

Musco's Credit Department will provide payment terms.

Email or fax a copy of the Purchase Order to Musco Sports Lighting, LLC:

Musco Sports Lighting, LLC  
Attn: Taylor Knoot  
Fax: 800-374-6402  
Email: musco.contracts@musco.com

All purchase orders should note the following:  
BuyBoard purchase – Contract Number: 677-22

### Delivery Timing

---

Approximately 8 weeks for delivery of materials to the job site from the time of order, submittal approval, and confirmation of order details including voltage, phase, and pole/luminaire locations.

### Notes

---

Quote is based on following conditions:

- Shipment of entire project together to one location.
- 240 Volt, single phase electrical system requirement and to be confirmed prior to production.
- Structural code and wind speed = 2018 IBC, 150 mi/h, Exposure C, Importance Factor 1.
- Due to the built-in custom light control per luminaire, pole or luminaire locations need to be confirmed prior to production. Changes to pole or luminaire locations after the product is sent to production could result in additional charges.



## Quote

- Standard soil conditions – rock, bottomless, wet, or unsuitable soil may require additional engineering, special installation methods and additional cost.

Thank you for considering Musco for your lighting needs. Please contact me with any questions or if you need additional details.

Tim Oordt  
Senior Sales Representative  
Musco Sports Lighting, LLC  
100 1st Avenue West – PO Box 808  
Oskaloosa, IA 52577, USA  
Phone: 512-658-6884  
E-mail: tim.oordt@musco.com

### Scope of Work

- Option 1: SportsCluster® System**
- Option 2: Light-Structure System™**

#### Customer Responsibilities:

1. Complete access to the site for construction using standard 2-wheel drive rubber tire equipment.
2. Locate existing underground utilities not covered by your local utilities. (i.e. water lines, electrical lines, irrigation systems, and sprinkler heads). Musco or Subcontractor will not be responsible for repairs to unmarked utilities.
3. Locate and mark field reference points per Musco supplied layout. (i.e. home plate, center of FB field).
4. Ensure existing poles are structurally adequate to handle new fixture loading.
5. Ensure usability of existing underground wiring.
6. Pay for extra costs associated with foundation excavation in non-standard soils (rock, caliche, high water table, collapsing holes, etc.) or soils not defined in geo-technical report. Standard soils are defined as soils that can be excavated using standard earth auguring equipment.
7. Pay any necessary power company fees and requirements.
8. Pay all permitting fees.
9. Provide any existing as-built documents or drawings.
10. Provide sealed Electrical Plans. (If required)

#### Musco Responsibilities:

1. Provide required fixtures, electrical enclosures, mounts, hardware, wire harnesses, and control cabinets.
2. Provide SportsCluster® poletop luminaire assembly on (4) poles.
3. Provide either pole or fixture layout and aiming diagram.
4. Provide Contract Management as required.
5. Provide stamped foundation designs based on soils that meet or exceed those of a Class 5 material as defined by 2018 IBC Table 1806.2 as required.
6. Assist our installing subcontractor and ensure our responsibilities are satisfied.

#### Subcontractor Responsibilities

##### General:

1. Obtain any required permitting.
2. Contact your local UDig for locating underground public utilities and confirm they have been clearly marked.



## Quote

3. Contact the facility owner/manager to confirm the existing private underground utilities and irrigation systems have been located and are clearly marked to avoid damage from construction equipment. Notify owner and repair damage to marked utilities. Notify owner and Musco regarding damage which occurred to unmarked utilities.
4. Provide labor, equipment, and materials to off load equipment at jobsite per scheduled delivery.
5. Provide storage containers for material, (including electrical components enclosures), as needed.
6. Provide necessary waste disposal and daily cleanup.
7. Provide adequate security to protect Musco delivered products from theft, vandalism, or damage during the installation.
8. Keep all heavy equipment off playing fields when possible. Repair damage to grounds which exceeds that which would be expected. Indentations caused by heavy equipment traveling over dry ground would be an example of expected damage. Ruts and sod damage caused by equipment traveling over wet grounds would be an example of damage requiring repair.
9. Provide startup and aiming as required to provide complete and operating sports lighting system.
10. Installation to commence upon delivery and proceed without interruption until complete. Musco to be immediately notified of any breaks in schedule or delays.

### **ADDER Demolition:**

1. Remove and dispose of the existing fixtures, and electrical enclosures. This will include the recycling of lamps, aluminum reflectors, ballast, and steel, as necessary.
2. Leave existing ground wires and power feed in place for connection to new lighting equipment.
3. Demolish existing foundations to 2 ft (0.6 m) below grade as required

### **OPTION 1: Retrofit Musco Equipment to Existing Poles:**

1. Provide labor, materials, and equipment to assemble and install Musco TLC for LED® equipment on existing poles and terminate grounding and power feed. Power feed may need to be reworked to adapt to the new Musco equipment.
2. Ensure grounding components meet minimum standards required by NEC and NFPA780.
3. For concrete poles provide new lightning down conductor(aluminum) and 5/8 in copper ground rod. For poles 75 ft (22 m) or less use 1/0 AWG, poles over 75 ft (22 m) use 4/0 AWG conductor. Bond internal pole ground to new down conductor.
4. For steel poles provide new ground rod and pole bonding conductor per NFPA Annex A.1.6.
5. Down conductor shall be converted to copper wire for any underground runs and bonded to ground rod(s).
6. Ensure all Musco components are bonded to both equipment and lightning grounds. No upward sweeps allowed for lightning down conductor or bonding jumper(s). See installation instructions for further information.
7. Test ground resistance with 3-point megger and confirm 25 ohms or less for each pole. Install additional ground rods or create grounding grid until resistance of 25 ohms or less is achieved.

### **OPTION 2; Foundations, Poles, and Luminaires:**

1. Mark and confirm pole locations per the aiming diagram provided. If there are any issues, immediately notify your Musco Project Manager.
2. Provide labor, materials, and equipment to install (4) LSS foundations as specified on Layout and per the stamped foundation drawings, if applicable.
3. Remove spoils and dispose of off site.
4. Provide labor, materials, and equipment to assemble Musco TLC-LED luminaires, electrical component enclosures, poles, and pole harnesses.
5. Provide labor, equipment, and materials to erect (4) dressed LSS Poles and aim utilizing the pole alignment beam.



## Quote

### **Electrical:**

1. Provide materials, and equipment to reuse existing electrical service panels as required.
2. Provide materials, and equipment to reuse existing electrical wiring as permitted.
3. Provide as built drawings on completion of installation, **(if required)**.

### **Control-Link Control and Monitoring:**

1. Provide labor, equipment, and materials to install (4) Musco control and monitoring cabinets and terminate all necessary wiring.
2. Provide a dedicated 120 V 20 A controls circuit or a step-down transformer for 120 V control circuit if not available.
3. Check all zones to make sure they work in both auto and manual mode.
4. Commission Control-Link® by contacting Control-Link Central™ at 877-347-3319.

