



# College Station Independent School District

*Success...each life...each day...each hour*

## MEMORANDUM

To: Amy Drozd, Chief Financial Officer *A. Drozd*

From: Jon Hall, Executive Director of Facilities *Jon E. Hall*

Date: March 3, 2021

Subject: Consider approval of a contract award to Musco Lighting under buyboard contract 592-19 for the purchase and installation of lighting improvements at AMCHS and CSHS competition fields in the amount of \$534,500 utilizing 2015 bond funds.

Agenda Item: K-3

## BACKGROUND

In November 2015, College Station ISD voters passed a bond issue for \$135.9 million for new construction and renovation to district facilities. Since that time, all identified projects have been completed and we have been able to accomplish additional projects with the savings left from the original projects.

One project that has been identified as a significant need is the replacement of the sports lighting at the competition fields at AMCHS and CSHS. A budget of \$550,000 was determined for this project based on an old proposal from Hellas Lighting that had expired and was over a year old. Both of our existing competition fields currently measure about 26 foot-candles of illumination, or roughly half of the UIL recommended level of 50 foot-candles.

In December, the Board of Trustees approved a design proposal from VLK Architects to design this small but technically challenging project which required a thorough review of existing electrical infrastructure at two separate locations and a determination of what components such as light poles, circuit breakers, and wiring could be re-used and what components in addition to the actual light fixtures need to be replaced. With help from our Electrical Engineer at Salas O'Brien Engineering, the design was complete by mid-February and the drawings were sent out as CSISD solicited proposals from 3 BuyBoard vendors.

One proposal was received from Musco Sports Lighting. Other vendors, including Hellas Lighting, decided to "no-bid" the project.

This Musco Sports Lighting BuyBoard Contract proposal of \$534,500 includes replacement of the existing light fixtures at AMCHS and CSHS competition fields with much more energy efficient Light Emitting Diode (LED) light fixtures for an illumination level of 50 foot-candles.



# College Station Independent School District

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CSISD considered upgrading the illumination level even further, up to 75 foot-candles, but the proposal cost for that was \$693,000 which was \$143,000 over budget.

The Musco Sports Lighting proposal includes \$269,500 for CSHS and \$265,000 for AMCHS competition fields, for a total cost of \$534,500.

This proposal meets or exceeds all design specifications created by VLK Architects and Salas O'Brien Engineering. This proposal also includes a warranty for materials and onsite labor for 10 years and utilizes a local subcontractor, Britt Rice Electric for the actual installation work.

## **RECOMMENDATION**

It is recommended that the College Station Independent School District Board of Trustees approve a contract award to Musco Lighting under buyboard contract 592-19 for the purchase and installation of lighting improvements at AMCHS and CSHS competition fields in the amount of \$534,500 utilizing 2015 bond funds.

**Project: College Station High School**

**College Station, TX**

Musco Ref: 199904

Date: 03/01/2021

**BuyBoard**

**Master Project: 196290, Contract Number: 592-19, Expiration: 09/30/2021**

**Commodity: Parks and Recreation Equipment and Field Lighting Products and Installation**

**All purchase orders should note the following:**

**BuyBoard purchase – Contract Number: 592-19**

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

<b>Football Stadium – 360' x 160', 50 Foot-candle option .....</b>	<b>\$269,500</b>
<b>Football Stadium – 360' x 160', 75 Foot-candle option .....</b>	<b>\$355,000</b>
<b>Show-Light Entertainment Controls – .....</b>	<b>\$7,000 (adder)</b>

*Sales tax and bonding of the equipment is not included.*

*Pricing furnished is effective for 60 days unless otherwise noted and is considered confidential.*

**SportsCluster™ System with Total Light Control – TLC for LED® technology**

**Guaranteed Lighting Performance**

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

**System Description**

- Factory wired pole top luminaire assemblies.
- Factory aimed and assembled luminaires, including BallTracker™ luminaires.
- Factory wired and tested remote electrical component enclosures.
- Pole length, factory assembled wire harnesses.
- Mounting hardware for poletop luminaire assemblies and electrical components enclosures.
- Spill light and off-site glare light minimized.
- UL Listed assemblies.

**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.
- Control-Link® control and monitoring system with Show-Light™ entertainment package to provide (6) pre-programmed theatrical shows, onsite dimming, and custom color accent lighting control. **(A part of adder)**
- (1) Touchscreen interface(s) to provide pre-programmed theatrical effects. **(A part of adder)**

**Operation and Warranty Services**

- Reduction of energy and maintenance costs by 40% to 85% over typical 1500W metal halide equipment.
- Product assurance and warranty program that covers materials and onsite labor, eliminating 100% of your maintenance costs for 10 years.
- Support from Musco's Lighting Services Team – over 170 Team members dedicated to operating and maintaining your lighting system – plus a network of 1800+ contractors.



## Quote

### ***Installation Services Provided***

See Scope of Work below.

### ***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: Amanda Hudnut  
Fax: 800-374-6402  
Email: musco.contracts@musco.com

**All purchase orders should note the following:  
BuyBoard purchase – Contract Number: 592-19**

### ***Delivery Timing***

4 - 6 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 locations.

Due to the built-in custom light control per luminaire, pole locations need to be confirmed prior to production. Changes to pole locations after the product is sent to production could result in additional charges.

### ***Notes***

Quote is based on:

- Shipment of entire project together to one location.
- 480 Volt, 3 Phase electrical system requirement.
- Structural code and wind speed = 2012 IBC, 115 mph, Exposure C.
- Owner is responsible for getting electrical power to the site, coordination with the utility, and any power company fees.
- Includes supply and installation of Musco system and controls by a licensed contractor.
- Standard soil conditions – rock, bottomless, wet or unsuitable soil may require additional engineering, special installation methods and additional cost.
- Confirmation of pole locations prior to production.
- The owner of the field is responsible for the structural integrity of the existing poles.

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

Pat Perry  
Field Sales Representative  
Musco Sports Lighting, LLC  
Phone: 281-605-9506  
E-mail: Pat.Perry@musco.com



**College Station High School  
College Station, TX  
Retrofit Scope of Work**

**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. 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 any necessary power company fees and requirements.
7. Provide any existing as-built documents or drawings.

**Musco Responsibilities:**

1. Provide required fixtures, electrical enclosures, mounts, hardware, wire harnesses, and control cabinets.
2. Provide fixture layout and aiming diagram.
3. Provide Project Management as required.
4. Assist our installing subcontractor and ensure our responsibilities are satisfied.

**Musco Subcontractor Responsibilities**

**General:**

1. Provide labor, equipment, and materials to off load equipment at jobsite per scheduled delivery.
2. Provide storage containers for material, (including electrical components enclosures), as needed.
3. Provide necessary waste disposal and daily clean up.
4. Provide adequate security to protect Musco delivered products from theft, vandalism, or damage during the installation.
5. Obtain and pay for any required permitting.
6. Confirm the existing underground utilities and irrigation systems have been located and are clearly marked in order to avoid damage from construction equipment. Repair any such damage during construction.
7. 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.
8. Provide startup and aiming as required to provide complete and operating sports lighting system.
9. Installation to commence upon delivery and proceed without interruption until complete. Musco to be immediately notified of any breaks in schedule or delays.

**Demolition:**

1. Remove and dispose of the existing lighting fixtures and electrical enclosures on 4 poles. This will include the recycling of lamps, aluminum reflectors, ballast, cages, and steel as necessary.
2. Leave existing grounds and power feed in place for connection to new lighting equipment.

**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.

**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 System:**



## Quote

1. Provide labor, equipment, and materials to install Musco Control and Monitoring cabinet(s) 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.

### **Show-Light™ Entertainment Package (If Adder is included)**

1. Provide labor, equipment, and materials to install Musco Control and Monitoring cabinet(s), Communication cabinet(s) 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. Provide 24 AWG twisted wire pair cable. Recommended Belden 7937A or equal. Cable should be underground rated (working distance 1500 ft (457 m)).
4. Cable is terminated on surge protection device in both communication cabinet and Control and Monitoring cabinet. Drain wire is landed at surge device on Control and Monitoring cabinet. Communication cabinet requires earth ground.
5. Plug provided ethernet cable into port on the side of communication cabinet and bottom of touch screen.
6. Connect provided touch screen power supply. Requires 120 V outlet.
7. Check all zones to make sure they work in both auto and manual mode.
8. Commission Control-Link® by contacting Control-Link Central™ at 877-347-3319.

CODE OF CONDUCT

In order to maintain a high-quality jobsite and installation, Subcontractor represents to Musco that it has the supervision necessary to, and shall train, manage, supervise, monitor, and inspect the activities of its employees for the purpose of enforcing compliance with these safety requirements. Subcontractor acknowledges that Musco does not undertake any duty toward Subcontractor's employees to train, manage, supervise, monitor, and inspect their work activities for the purpose of enforcing compliance with these safety requirements, but Subcontractor agrees to abide by any reasonable recommendations made by Musco or Musco representatives with respect to safety.

Subcontractor agrees that it is or will be familiar with and shall abide by the safety rules and regulations of Musco and the Owner, including, but not limited to the Occupational Safety and Health Act of 1970 (OSHA), all rules and regulations established pursuant thereto, and all amendments and supplements thereto.

Subcontractor further agrees to require all its employees, subcontractors, and suppliers to comply with these requirements. Subcontractor shall also observe and comply with all laws with respect to environmental protection applicable to the Project.

Subcontractor shall require all its subcontractors, employees, visitors, suppliers, and agents under its direction to comply with the following:

1. GENERAL JOBSITE SAFETY AND CLEANLINESS.
  - a. Subcontractor's employees and agents shall be required to wear appropriate personal protective equipment including, but not limited to, safety glasses with side shields, work shoes, fall protection devices, and hard hats.
  - b. Where a walking or working surface has an unprotected side or edge which is six feet or more above a lower level, Subcontractor shall use guardrail systems, safety net systems, or personal fall arrest systems.
  - c. Jobsite shall be kept free of debris including, but not limited to, cardboard and packing materials which can become windborne.
  - d. Construction equipment shall be parked during non-use in an orderly fashion so as not to create inconvenience to others using the jobsite.
  - e. Subcontractor shall provide for and ensure the use of safety equipment for the Project in accordance with Musco's and Owner's safety requirements, to the extent these may be stricter than federal, state, or local standards, or generally recognized industry applicable standards.
  - f. Subcontractor shall provide the Musco project manager with an "Emergency List" showing Subcontractor's designated medical doctor, hospital, insurance company, and any other health service providers, such list to be updated within 24 hours of any change in the information provided.
  - g. Within eight (8) hours from the time of an accident (or such shorter period as laws may require), Subcontractor shall advise Musco of any accident resulting in injury to any person or damage to any equipment or facility. Upon request, Subcontractor shall promptly furnish Musco with a written report of any such accident as well as a copy of all insurance and worker's compensation claims involving the Project.
  - h. Subcontractor shall maintain and inspect all construction equipment, including cranes and other lifting equipment, prior to each use. Subcontractor warrants that all equipment operators shall be qualified for each piece of construction equipment they intend to operate. Documentation of specific training is the responsibility of the Subcontractor.
  - i. Jobsite shall be policed daily for compliance to the above conditions.
  - j. Subcontractor's employees and agents are prohibited from using drugs and alcohol on the Project property or

## Quote

being under the influence of alcohol or drugs while performing work on the Project. Anyone observed participating in or observed under the influence will be removed from the Project immediately and prohibited from returning, with no exceptions.

2. CONFORMANCE TO STANDARD MUSCO INSTALLATION GUIDELINES.
  - a. Review and understand installation instructions are provided with every product installation.
  - b. Education of installation personnel to allow for highest efficiency and lowest possibility of failure.
  - c. Verify that components have been assembled per Musco installation instructions.
  - d. Verify plumb of concrete foundations prior to standing of poles.
  
3. PROVIDING A QUALITY INSTALLATION TEAM.
  - a. Subcontractor's work directly reflects the quality of the installation and may indirectly relate to the quality of the product upon which Musco's reputation is built.
  - b. Provide and maintain quality installation equipment. Records of maintenance and/or calibration shall be provided upon request.
  - c. Personnel shall be knowledgeable in operation of equipment as well as installation of Musco product.
  - d. All personnel provided by Subcontractor shall understand the relationship developed by and between Subcontractor and Musco, also by and between Musco and the customer, and act accordingly.



**Project: A&M Consolidated High School  
College Station, TX**

Musco Ref: 201404  
Date: 03/01/2021

**BuyBoard**

**Master Project: 196290, Contract Number: 592-19, Expiration: 09/30/2021**  
**Commodity: Parks and Recreation Equipment and Field Lighting Products and Installation**

**All purchase orders should note the following:  
BuyBoard purchase – Contract Number: 592-19**

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

<b>Football Stadium – 360' x 160', 50 Foot-candle option .....</b>	<b>\$265,000</b>
<b>Football Stadium – 360' x 160', 75 Foot-candle option .....</b>	<b>\$338,500</b>
<b>Show-Light Entertainment Controls – .....</b>	<b>\$7,000 (adder)</b>

*Sales tax and bonding of the equipment is not included.  
Pricing furnished is effective for 60 days unless otherwise noted and is considered confidential.*

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**Guaranteed Lighting Performance**

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

**System Description**

- Factory wired pole top luminaire assemblies.
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- Mounting hardware for poletop luminaire assemblies and electrical components enclosures.
- Spill light and off-site glare light minimized.
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**Control Systems and Services**

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- (1) Touchscreen interface(s) to provide pre-programmed theatrical effects. **(A part of adder)**

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## Quote

### ***Installation Services Provided***

See Scope of Work below.

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### ***Notes***

Quote is based on:

- Shipment of entire project together to one location.
- 480 Volt, 3 Phase electrical system requirement.
- Structural code and wind speed = 2012 IBC, 115 mph, Exposure C.
- Owner is responsible for getting electrical power to the site, coordination with the utility, and any power company fees.
- Includes supply and installation of Musco system and controls by a licensed contractor.
- Standard soil conditions – rock, bottomless, wet or unsuitable soil may require additional engineering, special installation methods and additional cost.
- Confirmation of pole locations prior to production.
- The owner of the field is responsible for the structural integrity of the existing poles.

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

Pat Perry  
Field Sales Representative  
Musco Sports Lighting, LLC  
Phone: 281-605-9506  
E-mail: Pat.Perry@musco.com



**A&M Consolidated High School  
College Station, TX  
Retrofit Scope of Work**

**Customer Responsibilities:**

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3. Locate and mark field reference points per Musco supplied layout. (i.e. center of FB field).
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5. Obtain and pay for any required permitting.
6. Confirm the existing underground utilities and irrigation systems have been located and are clearly marked in order to avoid damage from construction equipment. Repair any such damage during construction.
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8. Provide startup and aiming as required to provide complete and operating sports lighting system.
9. Installation to commence upon delivery and proceed without interruption until complete. Musco to be immediately notified of any breaks in schedule or delays.

**Demolition:**

1. Remove and dispose of the existing lighting fixtures and electrical enclosures on 5 poles. This will include the recycling of lamps, aluminum reflectors, ballast, cages and steel as necessary.
2. Leave existing grounds and power feed in place for connection to new lighting equipment.

**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.

**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 System:**



## Quote

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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.

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4. Cable is terminated on surge protection device in both communication cabinet and Control and Monitoring cabinet. Drain wire is landed at surge device on Control and Monitoring cabinet. Communication cabinet requires earth ground.
5. Plug provided ethernet cable into port on the side of communication cabinet and bottom of touch screen.
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Subcontractor agrees that it is or will be familiar with and shall abide by the safety rules and regulations of Musco and the Owner, including, but not limited to the Occupational Safety and Health Act of 1970 (OSHA), all rules and regulations established pursuant thereto, and all amendments and supplements thereto.

Subcontractor further agrees to require all its employees, subcontractors, and suppliers to comply with these requirements. Subcontractor shall also observe and comply with all laws with respect to environmental protection applicable to the Project.

Subcontractor shall require all its subcontractors, employees, visitors, suppliers, and agents under its direction to comply with the following:

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- b. Where a walking or working surface has an unprotected side or edge which is six feet or more above a lower level, Subcontractor shall use guardrail systems, safety net systems, or personal fall arrest systems.
- c. Jobsite shall be kept free of debris including, but not limited to, cardboard and packing materials which can become windborne.
- d. Construction equipment shall be parked during non-use in an orderly fashion so as not to create inconvenience to others using the jobsite.
- e. Subcontractor shall provide for and ensure the use of safety equipment for the Project in accordance with Musco's and Owner's safety requirements, to the extent these may be stricter than federal, state, or local standards, or generally recognized industry applicable standards.
- f. Subcontractor shall provide the Musco project manager with an "Emergency List" showing Subcontractor's designated medical doctor, hospital, insurance company, and any other health service providers, such list to be updated within 24 hours of any change in the information provided.
- g. Within eight (8) hours from the time of an accident (or such shorter period as laws may require), Subcontractor shall advise Musco of any accident resulting in injury to any person or damage to any equipment or facility. Upon request, Subcontractor shall promptly furnish Musco with a written report of any such accident as well as a copy of all insurance and worker's compensation claims involving the Project.
- h. Subcontractor shall maintain and inspect all construction equipment, including cranes and other lifting equipment, prior to each use. Subcontractor warrants that all equipment operators shall be qualified for each piece of construction equipment they intend to operate. Documentation of specific training is the responsibility of the Subcontractor.
- i. Jobsite shall be policed daily for compliance to the above conditions.
- j. Subcontractor's employees and agents are prohibited from using drugs and alcohol on the Project property or

being under the influence of alcohol or drugs while performing work on the Project. Anyone observed participating in or observed under the influence will be removed from the Project immediately and prohibited from returning, with no exceptions.

2. CONFORMANCE TO STANDARD MUSCO INSTALLATION GUIDELINES.
  - a. Review and understand installation instructions are provided with every product installation.
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  - b. Provide and maintain quality installation equipment. Records of maintenance and/or calibration shall be provided upon request.
  - c. Personnel shall be knowledgeable in operation of equipment as well as installation of Musco product.
  - d. All personnel provided by Subcontractor shall understand the relationship developed by and between Subcontractor and Musco, also by and between Musco and the customer, and act accordingly.