



Hilltopper Stadium  
Delray Beach, FL  
Date: May 23, 2016  
To: City of Delray Beach

**Quotation Price - Turnkey Installation and Materials - Existing Poles and Electrical**

SportsCluster Green™ lighting system as described below and delivered to the job site \$159,250 + Sales Tax.

**Equipment Description**

SportsCluster Green™ System delivered to your site

- Factory aimed poletop luminaire assemblies
- 1500 watt metal halide luminaires
- UL Listed remote electrical component enclosures
- Mounting hardware for the poletop assemblies and electrical component enclosures
- Pole length wire harness
- Disconnects

Also includes:

- Energy savings of more than 50% over a standard lighting system
- 50% less spill and glare light than Musco's prior industry leading technology
- Musco Constant 10™ product assurance & warranty program that eliminates 100% of your maintenance costs for 10 years, including labor and materials on Musco manufactured product. Musco's Constant 10 Warranty is contingent upon Musco's inspection and approval of existing structure and electrical wiring
- Guaranteed constant light level of 40 Footcandles for 10 years
- 1 group re-lamp(s) at the end of the lamps' rated life, 5000 hours
- Control Link® Control & Monitoring System for flexible control and solid management of your lighting system
- Lighting Contactors sized for existing Voltage/ Phase

Field Description	Quantity	Pricing Per Clay County	Extended Price
(Sect I) Football / Soccer Field - 360' by 240' - 50 FC	1	\$128,600.00	\$128,600.00
(Sect III E) Pole Installation	6	\$5,200.00	\$31,200.00
(Sect IVCa) Installation of Contactor Cabinet	1	\$5,000.00	\$5,000.00
(Sect VA1) Electrical Engineering	1	\$5,750.00	\$5,750.00
Deducts: Design Parameters			-\$11,300.00
Total			\$159,250.00

Poles, sales tax, permitting, and bonding are **not** included as part of this budget estimate.

**Pricing furnished is effective for 60 days unless otherwise noted and is considered confidential.**  
**Divulging technical or pricing information to competitive vendors will result in removal from the bid list.**

**Payment Terms**

The contract balance is due no later than 30 days after invoice date.

**Late payment will be subject to service charges of 1 ½% per month (18% APR).**

Musco will make every effort to coordinate shipment so that delivery corresponds with the customer's payment schedule. We will expect payment within the terms described above unless there is a written statement from Musco's corporate headquarters stating the acceptance of different terms.

**Delivery to the job site from the time of order, submittal approval, and confirmation of order details including voltage and phase, pole locations is approximately 30-45 days. 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.**

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### **Notes**

Quote is based on:

- Shipment of entire project together to one location
- Field size of 360' by 240' for the Soccer / Football Field
- System will be manufactured to existing voltage and phasing at site
- Confirmation of pole locations prior to production
- Musco's Constant 10™ product assurance and warranty program is contingent upon site review for compatibility with Musco's lighting system

Scope of work includes:

#### **Owner Responsibilities:**

- 1) Provide total access to the site and pole locations for construction. Equipment must be able to move from location to location on standard rubber tires – no towing required.
- 2) Remove any trees, limbs, shrubs, etc. for total access to pole locations.
- 3) Removal, replacement, and repair of all fencing necessary for construction.
- 4) Repair and/or replace any field turf, asphalt, curbs, and concrete inadvertently damaged during installation.
- 5) Locate and mark existing irrigation systems prior to the commencement of construction.
- 6) Provide existing electrical design and site plan as necessary.
- 7) Pay for all permitting costs.

#### **Musco Responsibilities / Subcontractor Responsibilities:**

- 1) Provide layout of pole locations, aiming diagram, and associated designs.
- 2) Provide pole inspection and survey of existing poles for height, size, and location.
- 3) Provide required Musco Sportscluster Green™ equipment.
- 4) Provide Project Management and assistance as needed.
- 5) Provide light test under owner supplied lighting system.
- 6) Remove and dispose of existing lighting fixtures and electrical enclosures on existing poles. This will include the recycling of lamps, aluminum reflectors, ballast and steel as necessary.
- 7) Leave the existing grounding wires and power feed in place for reattachment to the new Sportscluster Green™ product.
- 8) Provide adequate trash container for cardboard waste and packing debris.
- 9) Provide storage containers for material as necessary.
- 10) Provide adequate security to protect Musco delivered products from theft, vandalism or damage during the installation.
- 11) Provide equipment and materials to off load equipment at jobsite per scheduled delivery.
- 12) Obtain any and all required permits. Subcontractor **must** contact Musco prior to making payments for the permit(s) to arrange for payment by the end user.
- 13) Provide electrical design.
- 14) Provide materials and equipment to upgrade existing electrical service panels as required or necessary. This needs to be defined in the electrical design.
- 15) Ground the new product on poles per NFPA 780 and NEC code. This will include grounding of the electrical enclosures and remote light fixture cross arms. Existing lightning protection to be verified and repaired as needed to comply with Musco warranty.

- 16) Install Musco electrical enclosures and fixtures on existing poles and terminate power feed. Power feed may need to be reworked to adapt to the new Musco lighting equipment.
- 17) Provide materials and equipment to wire and terminate ballast to Sportscluster Green™ fixtures.
- 18) Provide materials and equipment to install the Musco supplied Lighting Contactor Cabinet(s). Installation of Musco supplied surge protection is also required. Subcontractor to commission Control Link once the entire system is energized.
- 19) Keep all heavy equipment off of playing fields and surfaces whenever possible. Use due care to minimize damages when playing surface access is required.
- 20) Jobsite to be returned to condition existing prior to construction of lighting system.
- 21) Locate existing underground utilities and irrigation system so as to avoid damage from construction equipment. Repair any such items damaged during construction.
- 22) Conduct system startup and additional aiming as required to provide a complete and operating sports lighting system.

Thank you for considering Musco for your sports-lighting needs. Please contact me with any questions.



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