
COUNCIL RECREATION & BEAUTIFICATION COMMITTEE

(Councilman O'Neill, Chair; Councilmembers Smith & Blake)

MEETING NOTICE AND AGENDA

Thursday, April 10, 2014 - 5:30 .m.

Rockledge City Hall, 1600 Huntington Lane, Rockledge Florida 32955

1. CALL TO ORDER
2. UNFINISHED BUSINESS – None
3. NEW BUSINESS
 - A. Discussion: Football Field Lighting Proposal
(The McKnight Family Sports Complex)
4. ADJOURN



Quote

**ROCKLEDGE PARK
 FOOTBALL
 Date: January 25, 2014**

Equipment Description – Equipment to light a 360 x 160 Football Field

Light Structure Green™ System delivered to your site in Five Easy Pieces™

- 4 x Pre-cast concrete bases
- 4 x galvanized steel poles
- UL Listed remote electrical component enclosure
- Pole length wire harness
- 22 x Factory-aimed and assembled luminaires

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 25™ warranty and maintenance program that eliminates 100% of your maintenance costs for 25 years, including labor and materials
- Guaranteed 30fc constant light for 25 years
- One group re-lamp at the end of the lamps' rated life, 5000 hours
- Control Link® Control & Monitoring System for flexible control and management of your lighting system
- Lighting Contactors sized for 480 Volt 3 phase
- Poles designed to FBC 2010, 160mph wind zone

Musco will attempt to coordinate shipment so that delivery corresponds with the customer's payment schedule. It will be the responsibility of the wholesaler to ensure that Musco is aware of this delivery timeframe. Terms: Net 30 days upon delivery

Sales tax is not included as part of this Quote.

Pricing listed below is based on Clay County bid #13/14-8

Field Description	QTY	\$ Per	Total
Football (30fc - 30'sb) (found on page 3 of the Clay County pricing sheet)	1	\$ 93,800	\$ 93,800
Installation Poles & Fixtures	4	\$ 4,600	\$ 18,400
		TOTAL	\$ 112,200

BUDGET ESTIMATE – ELECTRICAL CONDUIT, WIRING & SWITCHGEAR \$19,000 - \$26,000

Based on 480v / 3 Phase power being available within 100' of field

Robert A. DeCouto

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.

Scope of Work, Turnkey Installation

Owner Responsibilities:

- ◆ Complete access to the site for construction.
- ◆ Locate existing underground utilities and irrigation systems and mark all pole locations.
- ◆ Extra costs associated with foundation excavation in non-standard soils (rock, caliche, high water table, collapsing holes, etc.). Standard soils are defined as soils that can be excavated using standard earth auguring equipment.
- ◆ **Permitting Fees & FPL fees**
- ◆ **Provide 480v / 3 phase transformer to be located within 100'**

Musco Responsibilities:

- ◆ Provide required poles, fixtures, and foundations.
- ◆ Provide layout of pole locations and aiming diagram.
- ◆ Provide Project Management assistance as needed.
- ◆ Provide structural designs. (Only if required)
- ◆ Provide review of electrical design as provided by Electrical Contractor or Electrical Engineer.

Musco Subcontractor Responsibilities:

- ◆ Provide new service capable of handling field
 - ◆ Installing meter can, panel and Musco contactor Cabinets
 - ◆ Provide equipment and materials to off load equipment at jobsite per scheduled delivery.
 - ◆ Provide storage containers for material as necessary and dumpsters for waste disposal.
 - ◆ Provide required structural permits (fees paid by owner)
 - ◆ Provide electrical design for Musco to review prior to installation. (Only if Required)
 - ◆ Provide materials and equipment to install all underground conduit, wiring, pull boxes etc. and terminate wiring as required per electrical design.
 - ◆ Confirm the existing underground utilities and irrigation systems have been located and are clearly marked so as to avoid damage from construction equipment. Repair any such damage during construction.
 - ◆ Provide materials and equipment to install LSS foundations as specified on Layout.
 - ◆ Provide and install ground rods (one per pole location) for lightning protection per NFPA 780 Code. Poles 70' and below require a #2 ground wire. Poles 80' and above require 2/0 ground wire. Ground rods to be 3/4"x10' or 5/8"x8' with a 10' embedment. Ground rods must be installed in soil, not in the concrete backfill.
 - ◆ Remove spoils to owner designated location at jobsite.
 - ◆ Provide materials and equipment to assemble LSG fixtures and terminate all necessary wiring.
 - ◆ Provide equipment and materials to assemble and erect LSS Poles.
 - ◆ Provide equipment and materials to install the new LCC and terminate all necessary wiring.
 - ◆ Contractor will commission Control Link by contacting Control Link Central at (877-347-3319) and going through the following steps:
 - ◆ Check all Zones to make sure they work in both auto and manual mode.
 - ◆ 1 hour comprehensive burn of all lights on each zone.
 - ◆ Set base line for the DAS (Diagnostic Acquisition System)
 - ◆ Keep all heavy equipment off of playing fields. 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.
 - ◆ Provide startup and aiming as required to provide complete and operating sports lighting system.
-

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	70'	-	70'	1500W MZ	6	6	0
2	F3-F4	70'	-	70'	1500W MZ	5	5	0
4	TOTALS					22	22	0



MY PROJECT

Name: Laverne Ard Park Football
Location: Pamplico, SC

GRID SUMMARY

Name: Football
Size: 360' x 160'
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

CONSTANT ILLUMINATION

SUMMARY		HORIZONTAL FOOTCANDLES
		Entire Grid
Guaranteed Average:	30	
Scan Average:	30.4	
Maximum:	36	
Minimum:	25	
Avg / Min:	1.24	
Guaranteed Max / Min:	2	
Max / Min:	1.46	
UG (adjacent pts):	1.29	
CV:	0	
No. of Luminaires:	72	
LUMINAIRE INFORMATION		
Luminaire Type:	Green Generation	
Rated Lamp Life:	5,000 hours	
Avg Lumens / Lamp:	134,000	
Avg Lamp Tilt Factor:	1.000	
No. of Luminaires:	22	
Avg KW:	34.41 (37.4 max)	

Guaranteed Performance: The Guaranteed Average CONSTANT ILLUMINATION described above is guaranteed for the rated life of the lamp.

Field Measurements: Illumination measured in accordance with IESNA LM-5-04 and CIBSE LG4. Individual values may vary. See the Warranty document for details.

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 ballast and structures located within 3 feet (1m) of design locations.

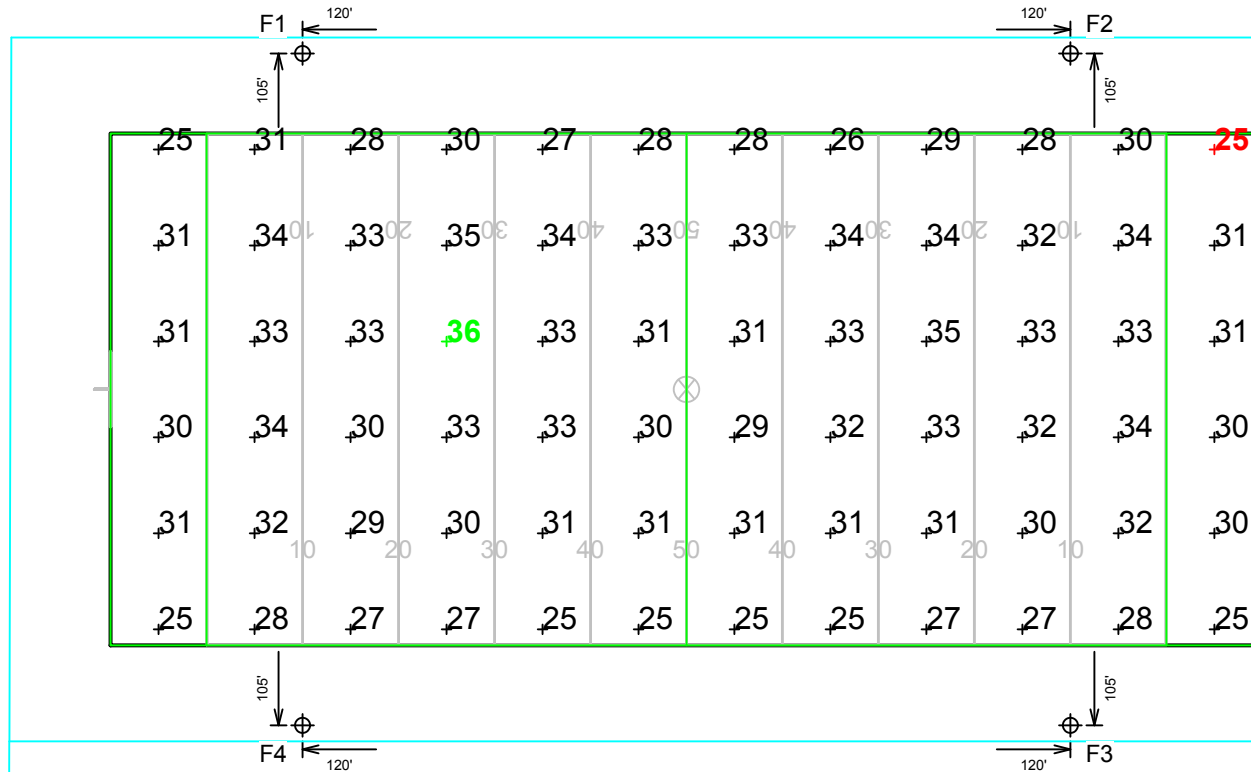
ENGINEERED DESIGN

By: Matt Sullivan
File # / Date: 162779prod 07-Jun-13

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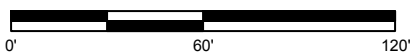
CENTERLINE OF NEW SWALE

-X- DRIVEWAY TO REMAIN



CENTERLINE OF NEW SWALE

SCALE IN FEET 1 : 60



Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

ILLUMINATION SUMMARY



MY PROJECT

Name: Laverne Ard Park Football
 Location: Pamplico, SC

EQUIPMENT LAYOUT

INCLUDES:
 - Football

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 ballast and structures located within 3 feet (1m) of design locations.

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	Pole		Luminaires		QTY / POLE
		CLASS	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	
2	F1-F2	LSS70B	-	70'	1500W MZ	6
2	F3-F4	LSS70A	-	70'	1500W MZ	5
4	TOTALS					22

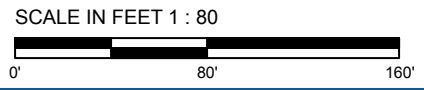
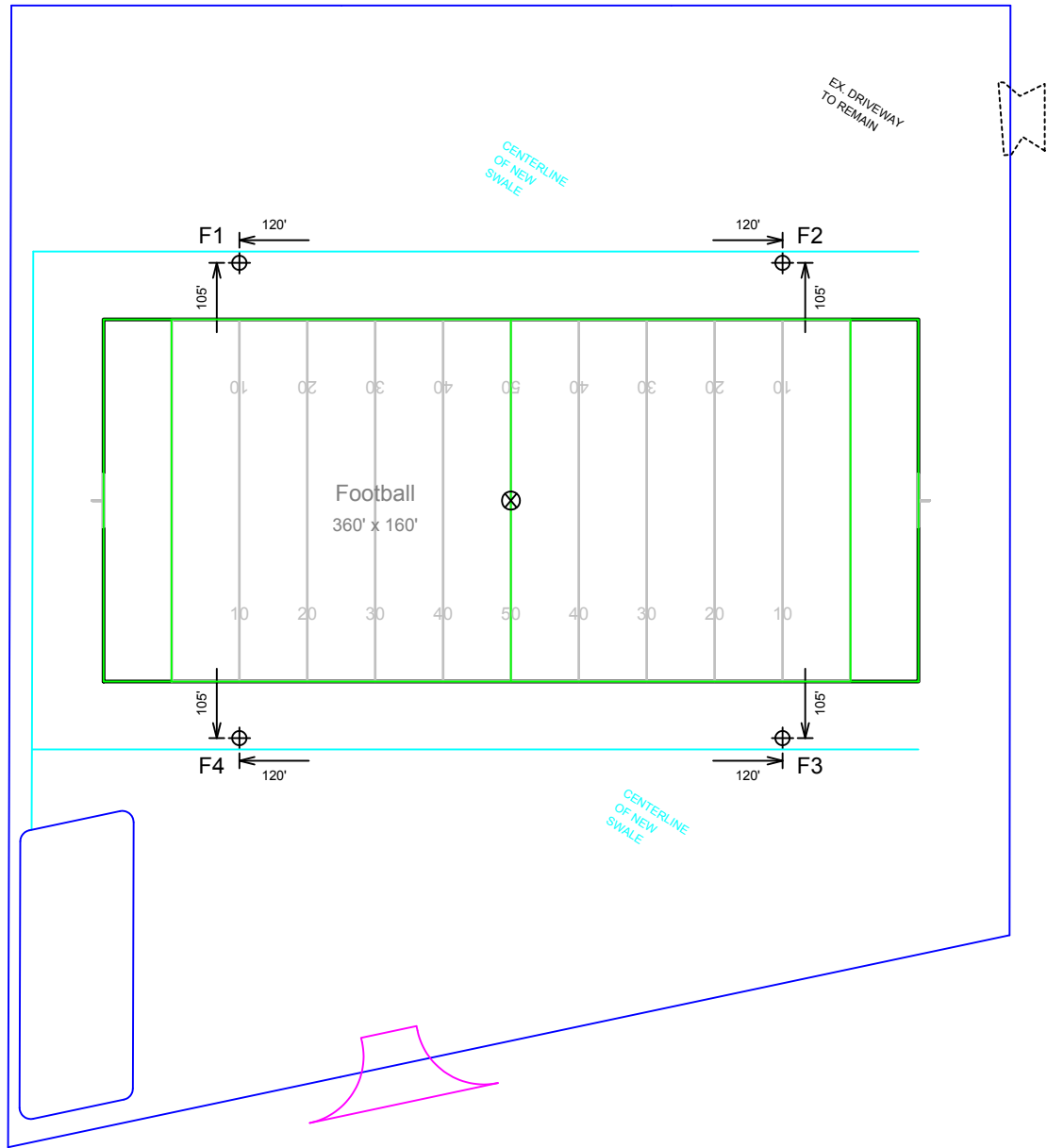
SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
1500 watt MZ	8.6	8.3	7.5	6.5	5.1	4.7	3.7

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Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



Musco Finance, LLC
 100 1st Avenue West
 Oskaloosa, IA 52577
 Phone: 800-825-6020
 Fax: 641-673-6360

Lease Purchase Proposal

Customer Name: City of Rockledge	Date: January 29, 2014
City, State Rockledge, FL	
Contact Person: Jim McKnight	Sales Rep: Bob DeCouto
Project Name: Rockledge Park	Project # 153302

	Option 1	Option 2
Estimated Project Cost	\$138,200.00	\$138,200.00
Down-payment (Due with Order)	\$.00	\$.00
Total Amount Financed	\$138,200.00	\$138,200.00
Term of Contract (Years)	5	7
Interest Rate (Annual)	3.95%	4.45%
Payments per Year	1	1
Payment Amount	\$31,062.92	\$23,488.71
Number of Payments	5	7

- At the end of the term, clear title passes with the completion of payments.
- Amount does not include sales tax. Proof of exemption is required.
- \$500.00 documentation fee due at lease signing.
- Proposal assumes first payment is due one year from contract date.

The interest rate quoted is based on current market rates and will be adjusted when the lease closes. The lease must qualify for "Federal Income Tax Exempt" status for the Lessor as defined by Section 265(b)(3)(B) of the Internal Revenue Code of 1986*.

This proposal is subject to acceptance of documentation and credit approval. The finance agreement is to be executed within 14 days of the execution of the equipment purchase contract.

Required information may include three years audited financial statements, current year's budget, and most current quarter interim profit and loss statement. Additional information may be requested.

*Lessee must certify that it reasonably anticipates that it and all of its subordinate entities will not issue more than \$10,000,000 of "qualified tax-exempt obligations during the calendar year in which the Lease is executed. The interest rate may vary if this is not the case.