

**CITY OF CLINTON
REGULAR MEETING OF THE MAYOR AND BOARD OF ALDERMEN
TUESDAY, MARCH 15, 2011 - 7:00 P.M.
MUNICIPAL COURTROOM – 305 MONROE STREET**

WELCOME AND CALL TO ORDER Mayor Rosemary Aultman

INVOCATION AND PLEDGE OF ALLEGIANCE TO THE FLAG

The invocation was led by Alderman Brabham followed by the pledge of allegiance to the flag led by Mayor Aultman.

ROLL CALL City Clerk, Russell Wall

Present: Jehu Brabham – Alderman-at-Large
 Tony Greer – Alderman Ward 2
 William O Barnett – Alderman Ward 3
 Kathy Peace – Alderwoman Ward 4
 Mike Morgan – Alderman Ward 5
 Mike Cashion – Alderman Ward 6

Absent: Tony Hisaw – Alderman Ward 1

APPROVAL OF CONSENT AGENDA ITEMS A - U

MOTION made by Alderman Greer and **SECONDED** by Alderwoman Peace to approve the Consent Agenda Items A-U. **MOTION CARRIED UNANIMOUSLY**

ACCEPT DONATION OF TWO TELEVISIONS FROM WAL-MART. ONE 32" VISIO, MODEL #LAUKHLL 5020482 AND ONE 42" VISIO, MODEL E420VO, SERIAL #LAQKIFAL4303094

Upon presentation by Barry Burnside, Fire Chief, **MOTION** made by Alderman Brabham and **SECONDED** by Alderman Barnett the board approved the acceptance of a donation of two televisions from Wal-Mart. One 32" Visio, Model #LAUKHLL 5020482 and one 42" Visio, Model E420VO, Serial #LAQKIF4303094. **MOTION CARRIED UNANIMOUSLY**

ACCEPT DONATION OF ONE USED BARBELL SET FROM BAPTIST HEALTHPLEX

Upon presentation by Barry Burnside, Fire Chief, **MOTION** made by Alderman Cashion and **SECONDED** by Alderman Morgan the board approved the acceptance of a donation of one used barbell set from Baptist Healthplex. **MOTION CARRIED UNANIMOUSLY**

ACCEPTANCE OF \$54,497.00 DONATION FROM CLINTON BASEBALL ASSOCIATION FOR THE BASEBALL FIELDS – PHASE ONE LIGHTING PROJECT

Upon presentation by Ray Holloway, Director of Parks and Recreation, **MOTION** made by Alderman Brabham and **SECONDED** by Alderman Greer the board approved the acceptance of a donation of \$54,497.00 from the Clinton Baseball Association for the Baseball Fields – Phase One Lighting Project. **MOTION CARRIED UNANIMOUSLY**

ACCEPTANCE OF MUSCO LIGHTING AS SOLE SOURCE EQUIPMENT PROVIDER FOR THE PHASE ONE LIGHTING PROJECT ON BASEBALL FIELD SIX (6)

Upon presentation by Ray Holloway, Director of Parks and Recreation, **MOTION** made by Alderwoman Peace and **SECONDED** by Alderman Brabham the board approved the acceptance of Musco Lighting as the sole source equipment provider for the Phase One Lighting Project on Baseball Field six (6). **MOTION CARRIED UNANIMOUSLY**

ACCEPTANCE OF THE SERVICE COMPANY AS LOW QUOTE FOR INSTALLATION OF LIGHTING PACKAGE FOR THE PHASE ONE LIGHTING PROJECT ON BASEBALL FIELD SIX (6)

Upon presentation by Ray Holloway, Director of Parks and Recreation, **MOTION** made by Alderman Brabham and **SECONDED** by Alderman Greer the board approved the acceptance of the Service Company as low quote for installation of lighting package for the Phase One Lighting Project on Baseball Field six (6). **MOTION CARRIED UNANIMOUSLY**

APPROVE THE ISSUANCE OF THE PERMIT TO DENBURY ONSHORE, LLC TO CONDUCT A GEOPHYSICAL SURVEY IN THE CITY OF CLINTON, MISSISSIPPI

Upon presentation by Richard Broome, City Engineer, **MOTION** made by Alderwoman Peace and **SECONDED** by Alderman Brabham the board approved the issuance of the permit to Denbury Onshore, LLC to conduct a Geophysical Survey in the City of Clinton, Mississippi. **MOTION CARRIED UNANIMOUSLY**

AUTHORIZE MAYOR ROSEMARY AULTMAN TO REQUEST MDOT ACTIVATE THE SIGNAL PROJECT AT FAIRMONT AND THE CLINTON PARKWAY

Upon presentation by Richard Broome, City Engineer, **MOTION** made by Alderman Greer and **SECONDED** by Alderman Cashion the board authorized Mayor Rosemary Aultman to request MDOT activate the signal project at Fairmont and the Clinton Parkway. **MOTION CARRIED UNANIMOUSLY**

AUTHORIZE MAYOR ROSEMARY AULTMAN TO REQUEST MDOT ACTIVATE THE ARROW DRIVE WIDENING PROJECT

Upon presentation by Richard Broome, City Engineer, **MOTION** made by Alderman Greer and **SECONDED** by Alderman Morgan the board authorized Mayor Rosemary Aultman to request MDOT activate the Arrow Drive Widening project. **MOTION CARRIED UNANIMOUSLY**

OTHER BUSINESS

AMEND THE RESOLUTION OF DECEMBER 7 2010, REAGRDIING CONDEMNATION OF THE JOYCE PROPERTY TO INCLUDE DIRECTING THE CITY ATTORNEY TO SECURE THE PROPERTY PURSUANT TO SECTION 11-27-81 ET SEQ. OF THE MISSISSIPPI CODE ALLOWING THE CITY TO TAKE IMMEDIATE POSSESSION OF THE SUBJECT PROPERTY

Upon presentation by Ken Dreher, City Attorney, **MOTION** made by Alderman Brabham and **SECONDED** by Alderman Barnett the board approved amending the resolution of December 7, 2010, regarding condemnation of the Joyce property to include directing the City Attorney to secure the property pursuant to Section 11-27-81 ET SEQ. of the Mississippi Code allowing the City to take immediate possession of the subject property. **MOTION CARRIED UNANIMOUSLY**

ADJOURN 7:33 P.M.

MOTION made by Alderman Brabham and **SECONDED** by Alderman Morgan to adjourn until the next regular meeting of the Mayor and Board of Aldermen to be held on April 5, 2011 at 7:00 pm. **MOTION CARRIED UNANIMOUSLY**

APPROVED: _____

Rosemary G. Aultman, Mayor

Date

ATTEST: _____

Russell L. Wall, City Clerk

Date



Ray Holloway

From: Cliff Manuel [cmanuel@primos.com]
Sent: Wednesday, March 09, 2011 10:07 AM
To: Ray Holloway
Subject: RE: Lights

Sensitivity: Confidential

For the Musco lights and equipment is \$35,000. For the installation of the said stated equipment by TSC, \$19,497.

Cliff Manuel
Chief Information Officer
Primos Hunting Calls
Office - 601-879-0515
Cell - 601-260-1563
Fax - 601-879-9324

From: Ray Holloway [<mailto:rholloway@clintonparksandrec.com>]
Sent: Wednesday, March 09, 2011 9:11 AM
To: Cliff Manuel
Subject: Lights
Importance: High
Sensitivity: Confidential

I have to list the exact \$ amount on our agenda? If it's a penny higher or lower it will delay things because of incorrect information. Can you specify the projects and amount being donated?

Thanks

Ray Holloway

Director

Clinton Parks and Recreation Department

P.O. Box 156 Clinton, MS 39060

Office: (601) 924-6082

Fax: (601) 925-6101

www.clintonparksandrec.com

"Providing Something For Everyone"

 Please consider the environment before printing this e-mail.



March 1, 2011

Ray Holloway
Clinton Parks
Soccer Row
Clinton, MS

RE: Clinton Baseball Field #6

Dear Ray:

The following is an outline of the characteristics of the company and its product, Light Structure Green™ ("LSG") that are unique only to Musco Lighting.

A. QUALITY:

1) Complete Lighting System

Musco is the only manufacturer that designs, manufactures and ships all components as a complete lighting system. All luminaires, wire harnesses, ballast enclosures, poles and bases are factory assembled, aimed, wired and tested before shipment.

2) UL Listed.

All system components are UL Listed for the appropriate application. Musco has authorization to apply the UL mark to luminaire units, and remote ballast enclosures.

3) Welded steel cross arms

Musco is the only manufacturer that welds all crossarms to the steel pole top section. This provides the highest quality of construction as well as unsurpassed durability. Luminaire, visor and crossarm shall withstand 150 mph winds.

4) Lamps & Luminaires

Musco uses a patented 1500 Watt "Z" lamp specially manufactured by Phillips only for Musco. The rated output of the Z lamp is 134,000 lumens. Coupled with Musco's patented "Smart Lamp" operating system, lamp life has been increased to 5,000 hours. Geared leveling

mechanism enables the lamp to operate in the energy advantageous horizontal position.

B. Durability

1) Pre-cast Concrete Base

This eliminates welded baseplates with anchor bolts or direct burial steel, which are often associated with corrosion and potential failure issues. Musco is the sole provider of this critical component in a quality lighting system.

2) Remote Electrical Component Enclosure ("ECE")

The ECE is constructed of a powder coated aluminum enclosure, allowing the coolest operation possible of lighting ballasts located inside. All other manufacturers use a steel construction (either painted or galvanized). Musco employs a unique ballast mounting design which utilizes the inside walls of the ECE to efficiently transfer heat out of the enclosure. We also use a unique patented connection system to the steel pole allowing efficient transfer of enclosure weight to the pole as well as threadless hub wire way access into the pole. All other manufacturers use a bolt-on connection with threaded hub connections which gives corrosion a place to develop.

3) Factory assembled luminaries

The luminaire ships totally assembled which avoids contaminants, saves installation time, and improves aiming accuracy. Each luminaire is powered up and tested before leaving the factory. Materials are carefully selected to eliminate "outgasing".

4) Attaching mechanism

The factory assembled luminaire connects electrically and structurally to the crossarm with one simple attachment.

5) Die-cast aluminum reflector housing

Die-cast aluminum housing is more durable against weather, golf balls, baseballs. Provides a solid base for a sophisticated photometric unit.

C. AVAILABILITY:

Standard delivery time of all Musco products is four to six weeks. For the Light Structure System, this includes everything from pre-cast concrete bases to factory wired and pre-aimed fixtures that are ready to install. Standard delivery time for steel pole production and delivery by other manufacturers is typically 12 to 14 weeks.

D. FITNESS FOR A PARTICULAR USE:

1) Lighting Performance/Spill & Glare Light Control

The City is establishing a very high level of standard with respect to a sports lighting systems' ability to efficiently provide quality lighting on-field as well as control spill and glare lighting impacts to adjacent off-site

residential areas. These standards, in part, are based on Musco's unparalleled photometric capabilities.

2) Reflector System Design

The Sports-Cluster Green reflector system utilizes a combination of the "Z" lamp and a patented reflector system to redirect wasted spill light onto the playing field .

Several visor choices provide energy efficiency light on the field and minimal spill light. Beams can be adjusted within the luminaire horizontally as well as vertically. More than 2,000 photometric patterns provide optimal energy efficiency and minimal spill light for each project.

Beams can be adjusted within the luminaire horizontally as well as vertically. Lighting can be custom fit to light the corners.

E. ACCOUNTABILITY:

1) Post Installation System "Fine Tuning"

Musco Lighting is the only manufacturer that provides factory technicians and field sales/service representatives to perform any fine tune adjustments after installation to assure maximum performance on-field, and more importantly, off-site. This service is part of the Musco performance guarantee that ensures all components of the lighting system are to the customer's specifications.

2) Life Cycle Cost

Due to the photometric improvement of Light Structure Green, energy consumption is reduced by 40% over technology currently available.

If you require further specific information on any components of the Musco system, please contact our office.

Sincerely,

Jason McKnatt
Field Sales

Sole Source Criteria Checklist:

		Musco LSG™		
QUALITY				
	Single Manufacturer of entire system			
	Complete UL Listing			
	Welded steel cross arms			
	Lamp life			
DURABILITY				
	Pre-cast concrete base			
	ECE components			
	Factory assembled luminaires			
	Attaching mechanism			
	Die-cast aluminum reflector housing			
AVAILABILITY				
	Delivery time for system			
FITNESS FOR A PARTICULAR USE				
	Lighting performance			
	Spill & Glare control			
ACCOUNTABILITY				
	Field Adjustments			
	Life Cycle Cost			



Clinton Multi-purpose Field
Clinton, MS
Date: February 17, 2011
To: Ray Holloway, City of Clinton

Quotation Price – T Ball Field #1, Poles A1, A2

Musco's Light Structure Green™ as described below and delivered to the job site \$35,000.

Sales tax, labor, and unloading of the equipment is not included as part of this quote.

Equipment Description

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

- (2) Pre-cast concrete bases
- (2) Galvanized steel poles
- UL Listed remote electrical component enclosures
- Pole length wire harness
- (13) Factory-aimed and assembled luminaries

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™ product assurance and warranty program that eliminates 100% of your maintenance costs for 25 years, including labor and materials
- Guaranteed constant light levels per design for 25 years, +/- 10% per IESNA RP-06-01
- One group re-lamp 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 with Lighting Contactors sized for site voltage and phase

Alternate Option – T Ball Field #1, Poles A1, A2 – Built to accommodate (3) future fixtures each – \$27,000

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

Quote is based on:

- Shipment of entire project together to one location
- Musco Design #145051R4
- Structural code and wind speed = 2006 IBC, 90 MPH.

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

Jason McKnatt
Sales Representative
Musco Sports Lighting
Phone: 662-402-1080
E-mail: Jason.mcknatt@musco.com
Fax: 800-374-6402



January 25, 2011

Ray Holloway
Clinton Parks and Recreation
Clinton, MS

Re: Baseball Field #6 Lighting

Dear Mr. Holloway,

We are pleased to present Musco's Light-Structure Green™ system for your lighting project. Light-Structure Green is the result of 30 years of technology innovation and over \$10 million of research and capital investment; providing significant advantages for your budget and for the environment. The following is a list of the key values and features that are unique to Musco's Light-Structure Green system.

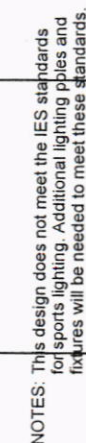
1. Luminaire Efficiency and Smart Lamp™ Technology

- a. **Constant Light Levels** – Smart Lamp operating system provides constant light levels over the life of the lamp with a series of timed power adjustments.
- b. **Energy Efficiency – Reduces energy consumption by half**
Light-Structure Green requires 40% fewer fixtures than prior technology systems, resulting in a reduced energy consumption over the life of the system. Additional energy savings are provided by Musco's Control-Link® control system.
- c. **Spill Light Control – Cuts off site spill light by 50%**
Over 2000 photometric patterns and our advanced visor system provide minimal spill light, customized for each project. Spill light is cut by 50% over Musco's prior industry leading Total Light Control™ spill and glare control system. Side shift beam control allows light beams to be adjusted within the luminaire horizontally as well as vertically, allowing Musco to custom fit the light to the corners.
- d. **Extended Lamp Life** – Lamp life for our 1500-watt Z-Lamp is extended from 3000 hours to 5000 hours. Musco's geared leveling mechanism also operates the lamp arc tube in the energy advantageous horizontal position.

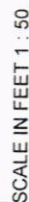
2. Musco Constant 25™ Warranty & Maintenance Program

- a. **100% Routine Maintenance Included for 25 Years** – All routine maintenance, including group lamp replacements, is provided by Musco for 25 years.
- b. **Guaranteed Constant Light Levels** – Average constant light levels are guaranteed for

role

TOTALS

NOTES: This design does not meet the IES standards for sports lighting. Additional lighting poles and fixtures will be needed to meet these standards.



SCALE IN FEET 1:50



File #: 145051R4

Pole location(s) + dimensions are relative to 0,0 reference point(s) $\otimes$

Date: 15-Feb-11

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ILLUMINATION SUMMARY

T-Ball 1

Clinton Multi Purpose Field
Clinton, MS

T-Ball 1

- Size: 182'/182'/182' - basepath 60'
- Grid Spacing = 20.0' x 20.0'
- Values given at 3.0' above grade

- **Luminaire Type:** Green Generation
- **Rated Lamp Life:** 5,000 hours
- **Avg Lumens/Lamp:** 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

No. of Target Points:	Infield	Outfield
Average:	24	56
Maximum:	40.6	20.4
Minimum:	44	36
Avg/Min:	35	10
Max/Min:	1.16	2.12
UG (Adjacent Pts):	1.25	3.76
CV:	1.18	1.50
Average Lamp Tilt Factor:	0	0
Number of Luminaires:		1,000
Avg KW over 5,000:		12
Max KW:		18.77
		20.4

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

Field Measurements: Averages shall be $\pm 10\%$ in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

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	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		
					LAMP TYPE	QTY / POLE	THIS GRID
1	A3	70'	-	70'	1500W MZ	6	0
1	A4	70'	-	60'	1500W MZ	2	0
2				70'	1500W MZ	6	0
TOTALS						14	12



GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

T-Ball 2

Clinton Multi Purpose Field
Clinton, MS

T-Ball 2

- Size: 182/180/155' - basepath 60'
- Grid Spacing = 20.0' x 20.0'
- Values given at 3.0' above grade

- Luminaire Type: Green Generation
- Rated Lamp Life: 5,000 hours
- Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

No. of Target Points:	Infield		Outfield	
	Average:	Maximum:	Average:	Maximum:
	40.4	48	22.5	36
	Minimum:	30	11	11
	Avg/Min:	1.32	1.98	1.98
	Max/Min:	1.59	3.18	3.18
UG (Adjacent Pts):	1.29	1.39	1.39	1.39
CV:	0	0	0	0
Average Lamp Tilt Factor:	1.000			
Number of Luminaires:	12			
Avg KW over 5,000:	18.77			
Max KW:	20.4			

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

Field Measurements: Averages shall be +/-10% in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

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.

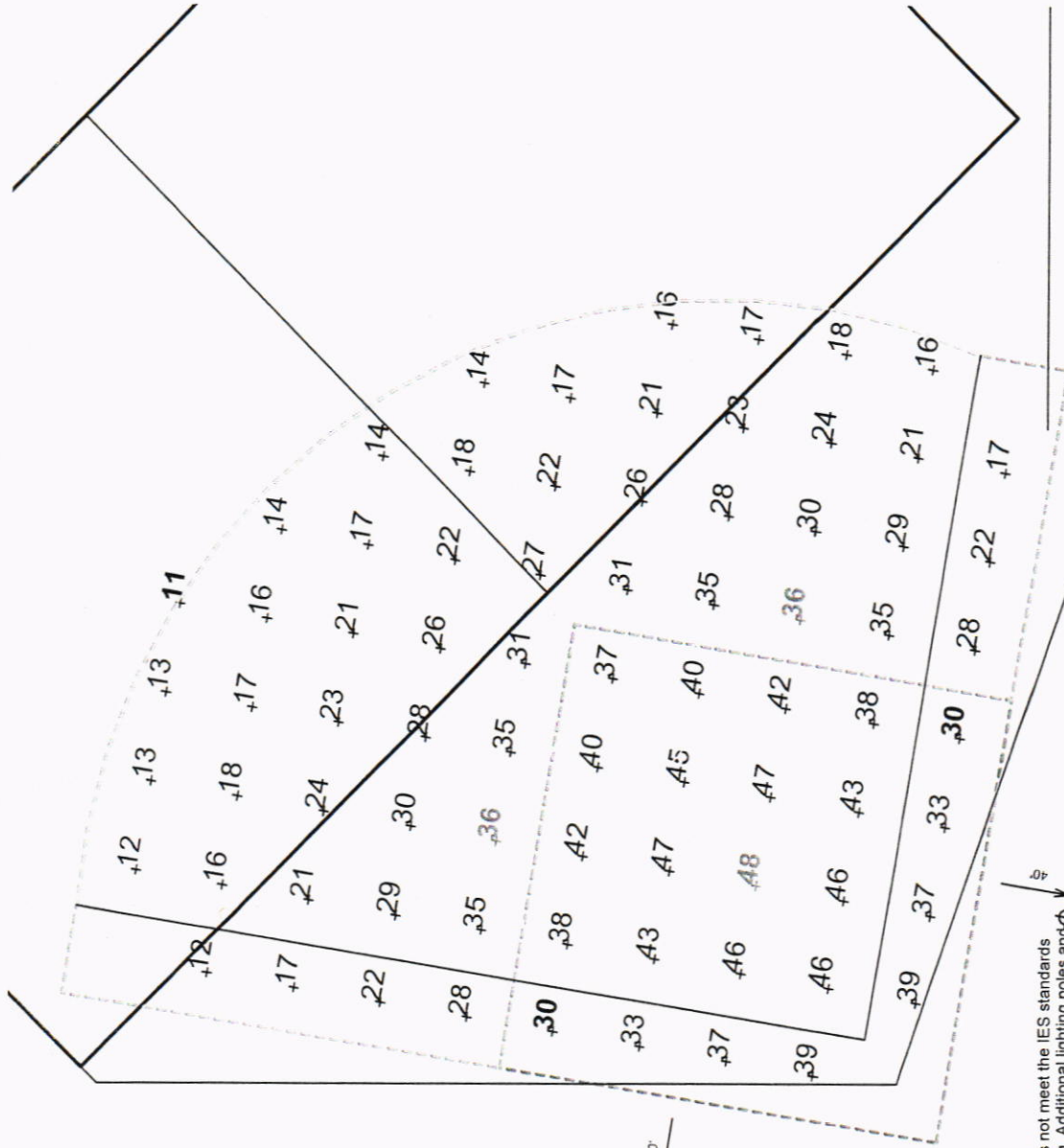
By: Jacob Leib

File #: 145051R4

Date: 15-Feb-11

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NOTES: This design does not meet the IES standards for sports lighting. Additional lighting poles and fixtures will be needed to meet these standards.

SCALE IN FEET 1 : 40



Pole location(s) + dimensions are relative to 0.0 reference point(s)



ILLUMINATION SUMMARY

T-Ball 3

Clinton Multi Purpose Field
Clinton, MS

T-Ball 3

- Size: 155'180'/182' - basepath 60'
- Grid Spacing = 20.0' x 20.0'
- Values given at 3.0' above grade

- Luminaire Type: Green Generation
- Rated Lamp Life: 5,000 hours
- Avg Lumens/Lamp: 134,000

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

No. of Target Points:	Infield	Outfield
Average:	24	52
Maximum:	40.8	23.0
Minimum:	50	37
Avg/Min:	33	11
Max/Min:	1.26	2.11
UG (Adjacent Pits):	1.53	3.43
CV:	1.30	1.43
	0	0
Average Lamp Tilt Factor:		1,000
Number of Luminaires:		12
Avg KW over 5,000:		18.77
Max KW:		20.4

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

Field Measurements: Averages shall be $\pm 10\%$ in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

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.

By: Jacob Leib

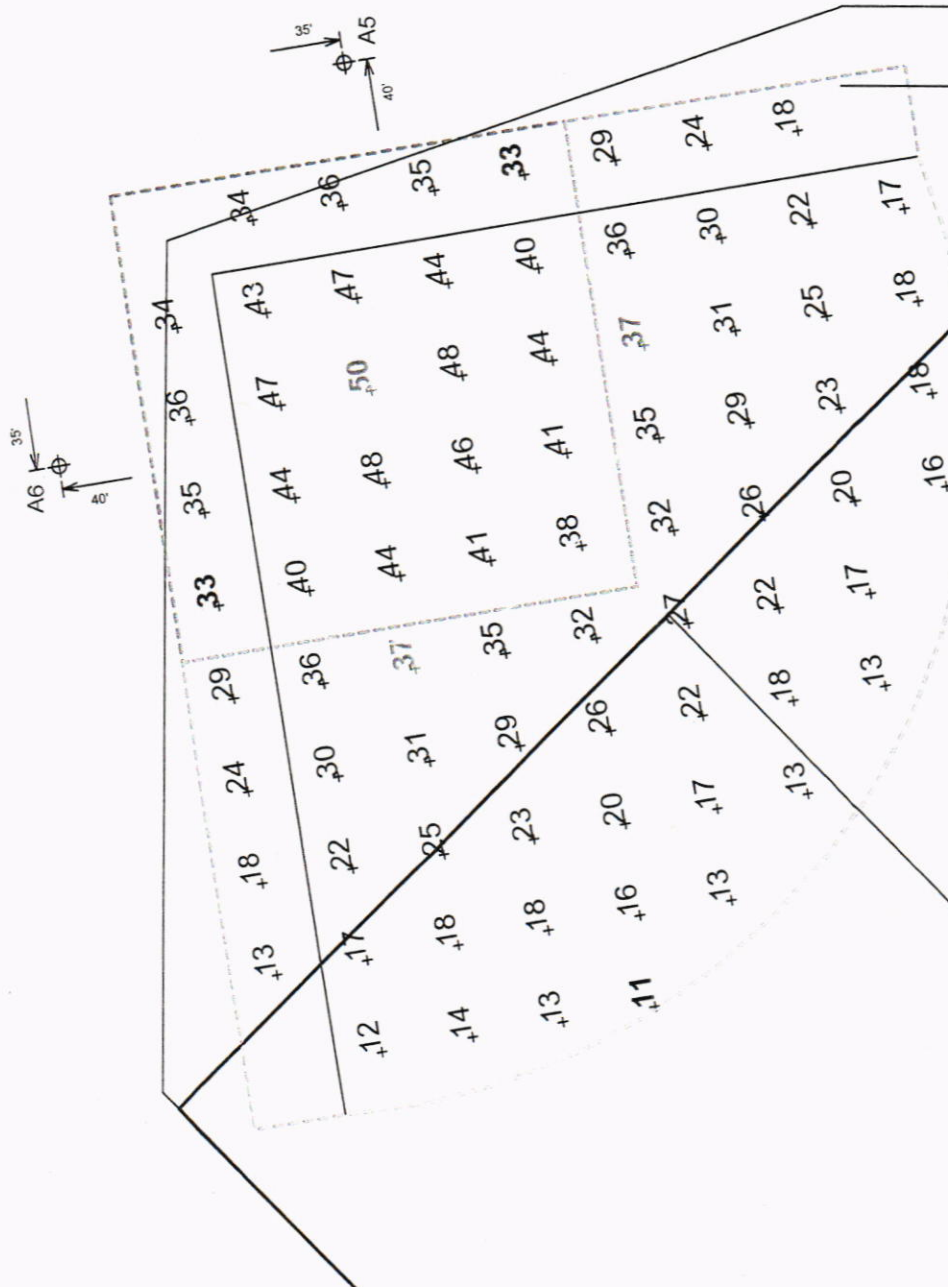
File #: 145051R4

Date: 15-Feb-11

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EQUIPMENT LIST FOR AREAS SHOWN						
Luminaires						
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LAMP TYPE	OTHER
2	A5-A6	70"	-	70'	1500W MZ	THIS GRID 6 0
2						1' 12 0
				TOTALS		



~~NOTES: This design does not meet the IES standards for sports lighting. Additional lighting poles and fixtures will be needed to meet these standards.~~

SCALE IN FEET 1 : 40

Pole location(s) + dimensions are relative to 0,0 reference point(s) $\otimes$

Luminaire

TOTALS

⊕

SCALE IN FEET 1 : 30



Pole location(s) $\neq$ dimensions are relative to 0,0 reference point(s) $\otimes$

Bv: Jacob Leib

File #: 145051R4

Date: 15-Feb-11

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GUARANTEED PERFORMANCE

ILLUMINATION SUMMARY

Batting Cage

Clinton Multi Purpose Field
Clinton, MS

Batting Cage

- Grid Spacing = 10.0' x 10.0'
Values given at 3.0' above grade

- | | |
|-------------------------|--------------------|
| Luminaire Type: | Green Generation |
| Rated Lamp Life: | 12,000 / 5,000 hrs |
| Avg Lumens/Lamp: | 88,000 / 134,000 |

CONSTANT ILLUMINATION HORIZONTAL FOOTCANDLES

Entire Grid

No. of Target Points:

Average: 17.5

Maximum:

Minimum: 10

Avg/Min:	1.80
Max/Min:	2.04

Max/Min:	2.94
Percent Dte\:	1.41

acent Pts):
CV:

Average Lamp Tilt Factor:

Number of Luminaires:

Avg KW over 12 000 / 5 000:

Max kW:

1.000
3
4.69
51

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

Field Measurements: Averages shall be $\pm 10\%$ in accordance with IESNA RP-6-01 and CIBSE LG4. Individual measurements may vary from computer predictions.

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.

Print Date (15/Feb/2011) & Time (11:03)

NOTES: This design does not meet the IES standards for sports lighting. Additional lighting poles and fixtures will be needed to meet these standards.



GUARANTEED PERFORMANCE

EQUIPMENT LAYOUT

Clinton Multi Purpose Field

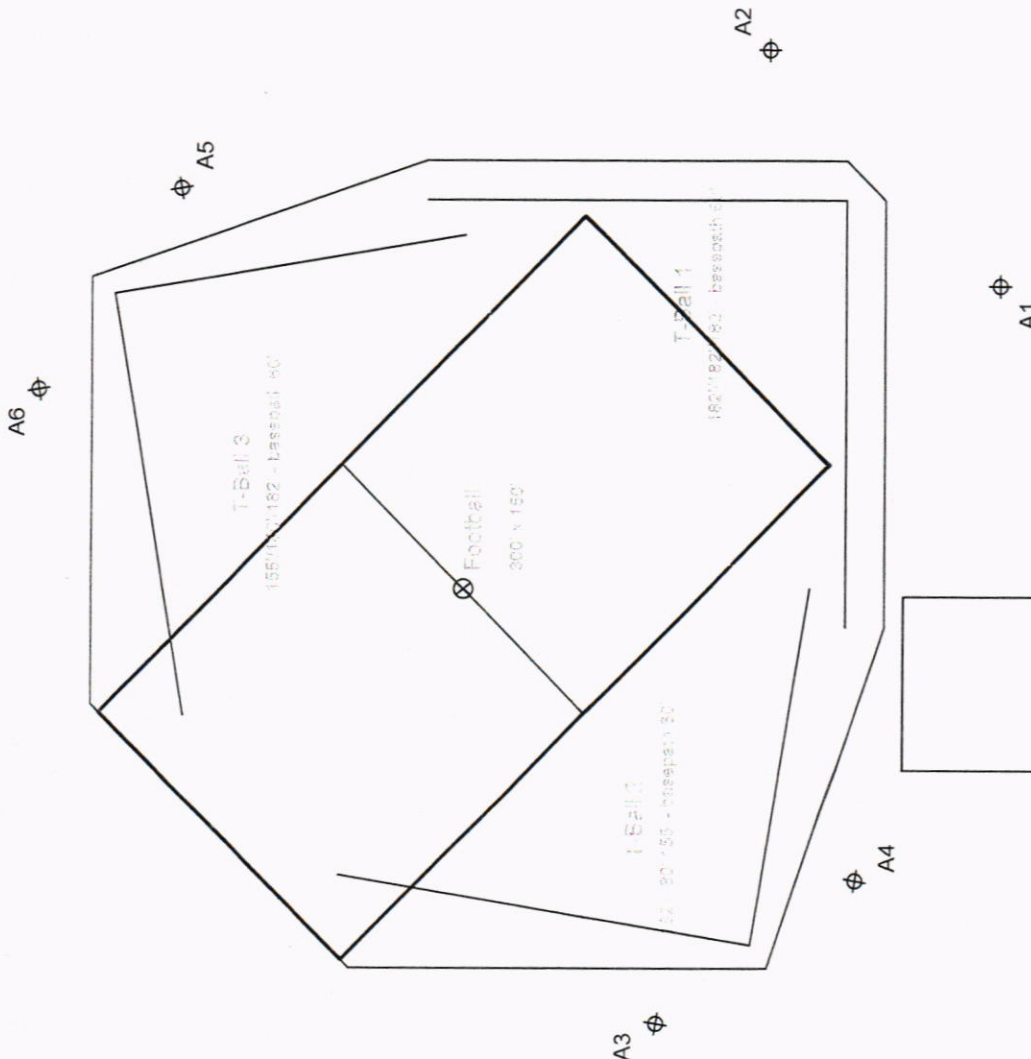
Clinton, MS

INCLUDES:

- Football
- T-Ball 1
- T-Ball 2
- T-Ball 3

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	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	Luminaires		QTY / POLE
					LAMP TYPE		
1	A1	70"	-	60'	1500W MZ		1
4	A2-A3 A5-A6	70"	-	70'	1500W MZ		6
1	A4	70"	-	60'	1500W MZ		2
6				70'	1500W MZ		6
TOTALS							39

SINGLE LUMINAIRE AMPERAGE DRAW CHART

Ballast Specifications (.90 min power factor)		Line Amperage Per Luminaire (max draw)				
Single Phase Voltage	1500 watt MZ	120	208	220	240	277
		(60)	(60)	(60)	(60)	(60)
		15.0	8.6	7.7	7.5	6.5
					5.1	4.7
						3.7

By: Jacob Leib

File #: 145051R4

Date: 15-Feb-11

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

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SCALE IN FEET 1 : 80



Control System Summary

Project Specific Notes:

An electrical service of 480v 3 phase has been assumed for this project.

Materials Checklist

Contractor/Customer Supplied:

- ☐ A single control circuit must be supplied per distribution panel location.
— If the control voltage is NOT available, a control transformer is required.
- ☐ Electrical distribution panel to provide overcurrent protection for lighting circuits
— Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone chart
- ☐ Wiring:
 - Dedicated control power circuit
 - Power circuit to and from lighting contactors
 - Monitoring circuit from surge protection device to Control and Monitoring cabinet 1
 - Harnesses for cabinets at remote locations
 - Means of grounding, including lightning ground protection
- ☐ Electrical conduit wireway system
— Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- ☐ Mounting hardware for cabinets
- ☐ Control circuit lock-on device to prevent unauthorized power interruption to control power
- ☐ Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central™ operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation.

Note: Activation may take up to 1 1/2 hours

Project Information

Project #:	145051
Project Name:	Clinton Multi Purpose Field
Date:	02/15/11
Project Engineer:	Zack Vroegh
Sales Representative:	Jason McKnatt
Control System Type:	Control and Monitoring
Communication Type:	Digital Cellular
Scan:	145051R4
Distribution Panel Location or ID:	T-Ball Fields
Total # of Distribution Panel Locations for Project:	1
Design Voltage/Hertz/Phase:	480/60/3
Control Voltage:	120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE	
1.Control and Monitoring Cabinet	24 X 72	
	QTY	SIZE
Total Contactors	8	30 AMP
Total Off/On/Auto Switches:	4	

IMPORTANT NOTES

1. Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's ballast enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaries come pre-wired to utilize all 3 phases across the entire facility.
3. One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
5. A single control circuit must be supplied per control system.
6. Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor of 0.9.

NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements

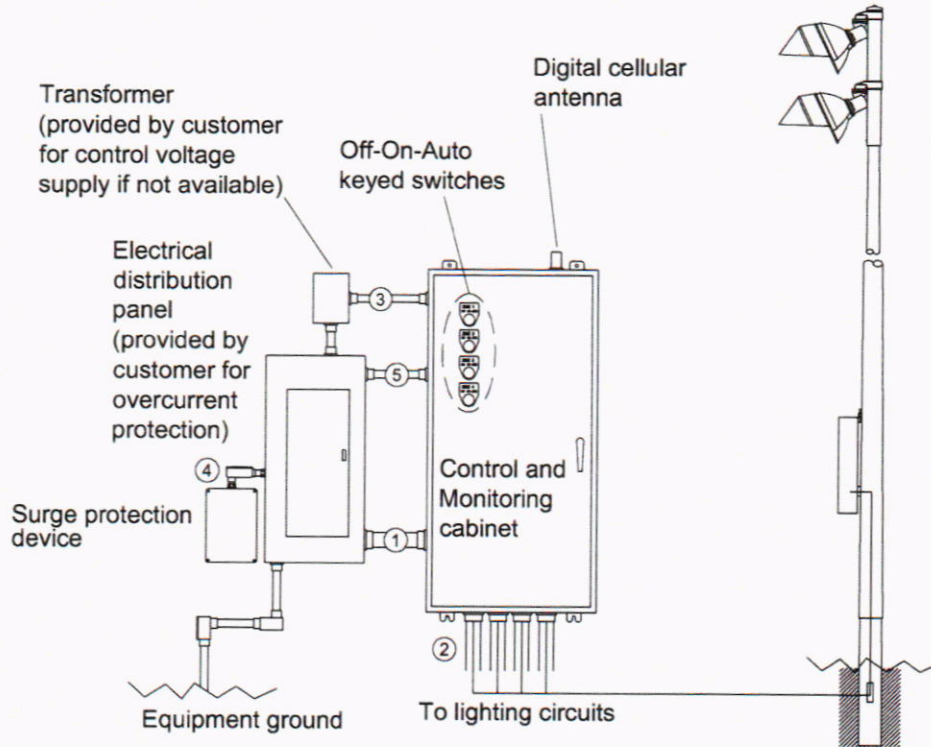
Control System Summary

Clinton Multi Purpose Field / 145051 - 145051R4
T-Ball Fields - Page 2 of 4

Control•Link.

Control and Monitoring System - Digital Cellular

(Quantity of equipment may differ from what is shown below)



WIRE	DESCRIPTION	# OF WIRES	TYP. WIRE SIZE (AWG)	MAX. WIRE LENGTH (FT)	WIRE FROM MUSCO	NOTES
1	LINE POWER & GROUND TO CONTACTORS (AS REQUIRED)	NOTE A	NOTE B	27	NO	A-E
2	LOAD POWER TO LIGHTING CIRCUITS (AS REQUIRED)	NOTE A	NOTE B	N/A	NO	A-D
3	CONTROL POWER (DEDICATED, 20A)	3	12	N/A	NO	C, D
4	SURGE PROTECTION DEVICE TO DISTRIBUTION PANEL	--	--	N/A	YES	D
5	SURGE PROTECTION DEVICE MONITORING	2	14	N/A	NO	D

R60-25-00_B

Notes:

- A. Voltage and phasing per the notes on cover page
- B. Calculate per load and voltage drop
- C. All conduit diameters per code.
- D. Refer to Control and Monitoring System Installation Instructions for more details on equipment information and the installation requirements.
- E. No contactor should be more than 27 feet from its circuit breaker. Contact Musco if max wire length exceeds the value shown in the chart.

IMPORTANT: Control (3) and monitoring (5) wiring must be in separate conduits from line and load power wiring (1,2).



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Form: T-5030-1

Control System Summary

Clinton Multi Purpose Field / 145051 - 145051R4
T-Ball Fields - Page 3 of 4

SWITCHING SCHEDULE

Field Type	Zones	Zone Description
Baseball-Softball	1	T-Ball 1
Baseball-Softball	2	T-Ball 2
Football	2,3	Football
Baseball-Softball	3	T-Ball 3
Other	4	Batting Cage

CONTROL POWER CONSUMPTION	
120V Single Phase	
VA loading of Musco Supplied Equipment	INRUSH: 2045.0
	SEALED: 293.0

BALLAST SPECIFICATIONS	VOLTAGE: 480v THREE PHASE						
.90 Minimum Power Factor							
Single Phase Voltage (Also applicable to each single phase of a 3 phase system)	208	240	277	347	380	415	480
1500 Watt Metal Halide Lamp Operating line amperage per fixture, max draw	8.6	7.5	6.5	5.1	4.7	4.2	3.7
1000 Watt Metal Halide Lamp Operating line amperage per fixture, max draw	6.5	5.8	4.9	4.0	3.6	3.2	2.9

CIRCUIT SUMMARY BY ZONE

POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
A1	T-Ball 1	6	14.8	30	C1	1
A2	T-Ball 1	6	14.8	30	C2	1
A3	T-Ball 2	6	14.8	30	C3	2
A4	T-Ball 2	6	14.8	30	C4	2
A5	T-Ball 3	6	14.8	30	C5	3
A6	T-Ball 3	6	14.8	30	C6	3
A1	Batting Cage	1	3.7	30	C7	4
A4	Batting Cage	2	7.4	30	C8	4



Control System Summary

Clinton Multi Purpose Field / 145051 - 145051R4
T-Ball Fields - Page 4 of 4

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Form: T-5030-1

PANEL SUMMARY

CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole A1	14.8		
1	1	C2	Pole A2	14.8		
1	1	C3	Pole A3	14.8		
1	1	C4	Pole A4	14.8		
1	1	C5	Pole A5	14.8		
1	1	C6	Pole A6	14.8		
1	1	C7	Pole A1	3.7		
1	1	C8	Pole A4	7.4		

ZONE SCHEDULE

ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONTACTOR ID
Zone 1	1	T-Ball 1	A1	C1
			A2	C2
Zone 2	2	T-Ball 2	A3	C3
			A4	C4
Zone 3	3	T-Ball 3	A5	C5
			A6	C6
Zone 4	4	Batting Cage	A1	C7
			A4	C8

Feb. 23, 2011



Clinton Parks and Recreation
200 Soccer Row
Clinton, MS 39056

Attn: Mr. Ray Holloway

Gentlemen:

We are pleased to quote on the installation of a new MUSCO Lighting Package, for your T-ball field complex, per their plans, drawing, Tech data, our conversations and site visit. Our price is based on, and includes:

- a. Demo of existing disconnects, wood rack, etc.
- b. New wood/metal rack to mount Meter sockets, Breaker panels, and MUSCO Control equipment.
- c. A new meter (Furnished by your utility Company), and Weatherproof Panel board, with necessary circuits for new lights, existing lift stations, and new (or Existing, but modified) scorekeepers stand.
- d. Grounding per local codes.
- e. Mounting and installing of MUSCO Contactor/Control cabinet, sized for not only the proposed two(2) new poles w/lights, but for 4 more in future.
- f. Conduit and wire for service to new Meter, etc., for connection to by Power Co.
- g. Drilling and setting of new poles and their concrete bases, furnished by MUSCO.
- h. Erecting and aiming of new lights/poles. Note: Quantity of lights has been increased from previous quote.
- i. Circuits to new poles, as well as empty conduits in ditches for future lights.
- j. Temporary flood light(s) on pole, to light batting cages. Lights to be controlled by timer knob switch.

Only items of work not included is the unloading of the MUSCO package, and the patching of any driveway or sidewalk that has to be cut for conduits.

For the sum of \$19,497.00.

Thank you for this opportunity, and please don't hesitate to call with any questions.

Clay Garrett
Electrical Division Director

www.the-service-company.com (800) 748.9929 Toll Free

Meridian: 2680 Sellers Drive, Meridian, MS 39301, (601) 482.8529 phone (601) 482.5668 fax

Hattiesburg: 5071 Highway 42, Hattiesburg, MS 39401, (601) 554.3290 phone (601) 554.3269 fax

Jackson dba Mechanical Services: 4579 I-55 South, Jackson, MS 39212, (601) 372.9292 phone (601) 372.9369 fax

Philadelphia: 10100 Road 375, Philadelphia, MS 39350, (601) 656.6313 phone (601) 656.6360 fax



FOUNTAIN CONSTRUCTION COMPANY, INC.

ELECTRICAL - MECHANICAL
SHEETMETAL - EQUIP. SETTING
GENERAL CONSTRUCTION

Ph. (601) 373-4162 FAX (601) 373-4300

Office of Engineering
5655 Highway 18 South
P.O. Box 10506
Jackson, MS 39289-0506

Operations & Warehouse
5655 Highway 18 South
Jackson, MS 39209

Project: Clinton T-Ball Field Complex Phase I

New Work: Install New poles at T Ball field

- 1) Install New 400a/240v/1phase service to feed complex
- 2) Demolish Existing Service
- 3) Furnish and install conduit and wire to Pole A1 & A2
- 4) Furnish and install empty conduit for future Phas II and Phase III these conduit will be terminated at the end of the first base fence and the end of the third base fence to prevent installation of future conduits interfering with existing Phase I field
- 5) Furnish and install temporary service to 2 existing poles at the batting cage
- 6) Receive and inventory Musco provided material
- 7) Install Musco furnished pole embutments per Musco requirements
- 8) Install Musco furnished pole A1 and A2 with light fixtures
- 9) Install Musco furnished lighting contactors and low voltage control package
- 10) Provide Utility cost at \$250.00 to disconnect and Reconnect service

Total: \$22,600.00(Twenty To Thousand Six Hundred Dollars)

This quote does not include the cost of the Musco Provided material

If you have any questions feel free to contact me.

Sincerely:

Jeffrey c. Jones
Project Manager
jjones@fountainconstruction.com
Phone: 601-376-4338
Cell: 601-573-8000
Fax: 601-376-4390

**DENBURY ONSHORE, LLC
PERMIT TO CONDUCT GEOPHYSICAL SURVEY**

CITY OF CLINTON
C/O Mayor Rosemary G. Aultman
300 Jefferson Street
Clinton, MS 39060-0156
Telephone: 601-925-6103

Date: March 3, 2011

Prospect: Metro Jackson 2-D

Denbury Onshore, LLC, its agents, successors and assigns, requests your permission for the purpose and non-exclusive right, but not the obligation to conduct a geophysical survey on the following lands owned by **CITY OF CLINTON, MISSISSIPPI**.

Description of Work: Denbury and its agents and/or its contractors will utilize the City of Clinton, MS Right-of-Ways and Streets to monitor and collect seismic data within the approved designated area(s).

Denbury Onshore, LLC agrees to pay the undersigned a total of **\$500.00** for the right to conduct a geophysical survey on the lands indicated above.

Conditions of permit:

1. Gates will be left as they are found.
2. City, State, and County regulations to protect wells, sewer, buildings and all City Infrastructure will be strictly observed.
3. State requirements will be complied with for the proper plugging of seismic sources.
4. Denbury Onshore, LLC will assume responsibility for any property damage that is the direct result of its operations on the lands covered hereby.
5. Denbury Onshore, LLC will be responsible to notify the public within the area of seismic operations.

In this agreement by both parties it is agreed that this permit covers all lands in which you own a mineral interest in the above described sections, and including all minerals/surface owned by you within the boundary of our project, whether correctly identified or not.

Our operations will be conducted in accordance with standard geophysical practices and in a prudent and careful manner, and we agree to hold you free and harmless from claims and damages that may result from our work by virtue of your permission herein granted. In the event the geophysical survey is not conducted across the property hereinabove described, this permit will be null and void.

Additional comments and remarks:

City Contact- Name and Number _____ (____) _____ - _____

Designated Area(s): Sections 9, 15, 22, and 23 of Township 6N, Range 2W, Hinds County, MS (See Attached Exhibit "A")

Expiration Date: 12 months from the below date

I (we) hereby grant permission for Denbury Onshore, LLC, its agents, successors and assigns, to conduct geophysical operations on the above described lands under the terms set forth herein.

Signature: _____ Date: _____ TAX ID: _____
Authorized Signature (In excess of \$600.00 only)

