

STATE OF MISSISSIPPI

COUNTY OF HARRISON

**AMENDMENT TO ENERGY PERFORMANCE CONTRACTING AGREEMENT BETWEEN  
HARRISON COUNTY, MISSISSIPPI AND McNEIL RHOADS**

**THIS AMENDMENT TO ENERGY PERFORMANCE CONTRACTING AGREEMENT** is entered into by and between Harrison County, Mississippi, by and through its Board of Supervisors, a political subdivision of the State of Mississippi, (hereinafter, the "County" or "Client"), and McNeil Rhoads LLC, a Mississippi Limited Liability Company, whose principal place of business is 980 N. Bierdeman Road, Pearl, Mississippi 39208, (hereinafter, "McNeil Rhoads").

**WHEREAS**, the County and McNeil Rhoads have previously entered into an Energy Performance Contracting Agreement and incorporated herein by reference to implement infrastructure improvement measures throughout numerous County facilities; and

**WHEREAS**, improved energy performance throughout County facilities will result in substantial savings to the taxpayers of the County; and

**WHEREAS**, the parties desire to amend the Energy Performance Contracting Agreement to clarify certain provisions of the Agreement; and

**WHEREAS**, the parties hereto have the authority to enter into this Amendment to Agreement.

**NOW, THEREFORE, FOR AND IN CONSIDERATION** of the mutual benefits and advantages each to the other, the parties hereby acting by and through their respective authorized representatives, agree as follows:

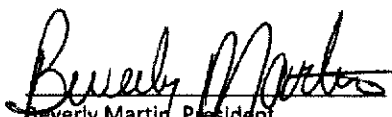
**SECTION 1.** Exhibit A. Attachment 1 shall be deleted in its entirety and replaced with the enclosed Exhibit A Attachment 1.

**SECTION 4.** This Amendment to Agreement may be executed in more than one (1) counterpart, each of which shall constitute an original.

WITNESS OUR SIGNATURES as duly authorized for and on behalf of Harrison County, Mississippi, and McNeil Rhoads, LLC, on the dates indicated below.

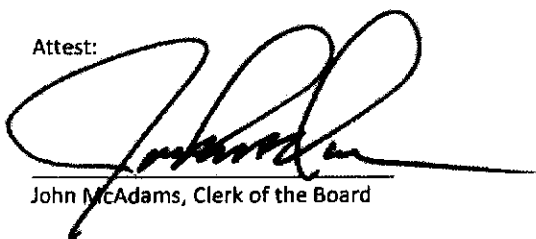
HARRISON COUNTY, MISSISSIPPI

Date: 11-7-16

  
Beverly Martin, President  
Harrison County Board of Supervisors

(SEAL)

Attest:

  
John McAdams, Clerk of the Board

MCNEIL RHOADS, LLC

Date: 11-7-16

  
Chris McNeil, Member

STATE OF MISSISSIPPI  
COUNTY OF HARRISON

PERSONALLY CAME and appeared before me, the undersigned authority in and for the jurisdiction aforesaid on this the 7th day of November, 2016, BEVERLY MARTIN AND JOHN McADAMS, who acknowledged before me that they are the duly elected President of the Harrison County Board of Supervisors and duly serving Clerk of the Board of Harrison County, Mississippi, and that they did sign, execute and deliver the above and foregoing instrument in writing on the date and for the purpose therein stated in the name of and for and on behalf of Harrison County, Mississippi, having been first duly authorized so to act by Order of the Board of Supervisors of Harrison County, Mississippi.

  
NOTARY PUBLIC

My Commission Expires:

6-24-17



STATE OF MISSISSIPPI  
COUNTY OF \_\_\_\_\_

PERSONALLY CAME and appeared before me, the undersigned authority in and for the jurisdiction aforesaid on this the \_\_\_\_\_ day of NOVEMBER, 2016, CHRIS McNEIL, who acknowledged before me that he is the duly authorized Managing Member of McNeil Rhoads, LLC, and that he did sign, execute and deliver the above and foregoing instrument in writing on the date and for the purpose therein stated in the mane of and for and on

behalf of McNeil Rhoads, LLC, having been first duly authorized so to act by Resolution of said limited liability company.

*Rebecca Green*  
NOTARY PUBLIC

My Commission Expires:

\_\_\_\_\_



Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

MCNEIL RHOADS will install energy efficient lighting upgrades at the facilities listed below. A total of forty-six (46) Sites at approximately sixty (60) facilities are included in the Scope of Work.

- Summary of Fixtures Installed (approximate)
  - 1,150 New Fixtures
  - 9,396 Retrofitted Fixtures
  - 129 Existing Fixtures Excluded (Do Not Do)
  - 639 Sensors

**FIXTURE LENS STATEMENT**

The lighting upgrade included in the scope of work is designed to maximize the energy efficiency of the lighting systems, while delivering adequate lighting levels throughout the facilities. The purpose of the upgrade is not founded in aesthetic considerations; therefore, the replacement or installation of new fixture lenses will only take place when the fixture retrofit is required to provide sufficient light levels. Older or damaged lenses that the CLIENT desires to be replaced can be addressed as extra work to this Agreement for retrofitted fixtures.

**SENSORS**

These sensors will be installed at MCNEIL RHOADS' discretion. The installation count may vary based on individual usage patterns and/or electrical circuitry variances.

**FIXTURE COUNTS**

The following tables describe the Lighting Scope of Work in depth. Fixture Counts and Quantities are approximate and may vary based actual conditions in each Facility at time of Implementation. The Final Quantities will be updated and provided in the As-built Project Documentation.

**Table 1 – Lighting Retrofits Summary**

Fixtures		
Existing	Retrofit	Count
100W Incandescent	New 4' LED Wrap	15
100W Incandescent	New 8' LED Wrap	10
100W Incandescent	New 4' LED Wrap	4
100W Incandescent	New 2'LED Vanity	15
100W Incandescent	New LED 1x1 Canopy Light	12
100W Incandescent Jelly Jar	New LED Mini Wallpack	5
100W Metal Halide	Ballast Bypass and LED Corn Cob	16
100W Metal Halide	New LED 1x1 Canopy Light	24
100W Metal Halide	New Small LED Flood	9
100W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass /New Socket	55
1500W Metal Halide Flood	HO LED Sports Lighter	15
1500W Metal Halide Highbay	New High Output LED Highbay	65
1500W Metal Halide Highbay	New 200w LED Highbay	13
150W Quartz Halogen	New Small LED Flood	12

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

175W Metal Halide	New LED Wallpack	8
175W Metal Halide	New LED Wallpack	107
175W Metal Halide	New LED Medium Flood	175
18" 1T12 Existing	New LED UR Kit	2
2' 2T12 Existing	2x9w 2' LED Tube	13
250W High Pressure Sodium	New LED Shoebox	55
250W Metal Halide Gooseneck	New LED Large Flood	53
2x2 2FT40 PL	New 2x2 Recessed Troffer w/ 2x9w 2' LED Tube	40
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	184
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	67
2x2 3PL Recessed	2x9w 2' LED Tube	10
2x32W CFL	New LED 1x1 Canopy Light	5
2x4 2T12 Recessed	2x15w 4' LED Tube	612
2x4 2T8 Recessed	2x15w 4' LED Tube	654
2x4 3T12 Recessed	2x15w 4' LED Tube	492
2x4 3T8 Recessed	2x15w 4' LED Tube	894
2x4 3T8 Recessed	3x15w 4' LED Tube	34
2x4 3T8 Recessed	2x4 LED Panel	10
2x4 3T8 Recessed Parabolic Lens	2x15w 4' LED Tube	244
2x4 4T12 Recessed	2x15w 4' LED Tube	1,265
2x4 4T8 Recessed	2x15w 4' LED Tube	1,078
2x4 4T8 Recessed	4x15w 4' LED Tube or UR Kits	271
2x75W Incandescent	New LED 1x1 Canopy Light	2
4' 1T12 Lamp and Ballast	1x15w 4' LED Tube	9
4' 2T12 Existing	New 4' LED Vapor Tight	9
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	896
4' 2T12 Non-Retrofittable	New 4' LED Wrap	11
4' 2T12 Non-Retrofittable	New 4' LED Wrap	16
4' 2T12 Vanity	New 4' LED Vanity/Wrap	6
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	611
4' 2T8 Non-Retrofittable	New 4' LED Wrap	13
4' 3T12 Lamp and Ballast	3x15w 4' LED Tube	384
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	40
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	177
4' 4T12 Non-Retrofittable	New 4' LED Wrap	1
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	265
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	14
400W Metal Halide	2x4 LED Panel	42

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

400W Metal Halide	New 200w LED highbay	90
400W Metal Halide	New 200w LED highbay	37
400W Metal Halide	New 200w LED highbay	52
400W Metal Halide	New 8' LED Wrap	4
400W Metal Halide	New LED Wallpack	4
400W Metal Halide	New LED Large Flood	26
40W G24 Globe	8W LED Globe	130
40W Incandescent	7W LED A19 Lamp	63
4x42W CFL Parking Fixture	New LED Parking Fixture	2
60W Incandescent	12W LED A19 Lamp	9
65W Incandescent BR30	12W LED BR30	80
70W Metal Halide	New LED Mini Wallpack	7
70W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	6
75W Halogen par 30	12W LED Par 30	64
75W Halogen par 30 Long Neck	14W LED Par 30 Long Neck	1
75W Halogen Par 38	17W LED Par 38	21
75W Incandescent	12W LED A19 Lamp	350
75W Incandescent	New 4' LED Vanity/Wrap	4
8' 2T12 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	41
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	80
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	12
8' 2T12 Non-Retrofittable	New 8' LED Wrap	2
8' 2T12 Non-Retrofittable	New 4' LED Wrap	2
8' 2T12 Non-Retrofittable	New 8' LED Wrap	3
8' 2T12 Non-Retrofittable	New 8' LED Wrap	35
8' 2T8	New 4' LED Vapor Tight	2
8' 2T8 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	38
8' 2T8 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	4
8' 4T12 Lamp and Ballast	4x15w 4' LED Tube	9
90W Halogen Par 38	19W LED Par 38	20
Candelabra E12 25W	5W LED Candelabra E12	33
Do Not Do Fixture	Do Not Do Fixture	129
Exit Incandescent	New LED Exit	55
N/A	Install Emergency Ballast for Security - If Needed	77
Non-Retrofittable 2T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	5
Non-Retrofittable 3T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	7
Non-Retrofittable 3T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 3x15w 4' LED Tubes	14

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

Non-Retrofittable 4T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	5
Non-Retrofittable 4T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	2
Non-Retrofittable 2' 1T12 Vanity	New 2' LED Vanity	6
T12 Circuline	New LED 1x1 Canopy Light	101
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor – Wireless	307
N/A	Hallway Occupancy Sensor – Wireless	160
N/A	Individual Fixture Sensor	14
N/A	New VendMiser	28
N/A	No Sensor	1
N/A	Passive Infrared Wall Switch, Single Switching	8
N/A	Wall Mount Occupancy Sensor – Wireless	4
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	72
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	42
Replace Existing Photocell	New Photo Cell	3
<b>Summary</b>		
		<b>Count</b>
New Fixtures		1,150
Retrofit Fixtures		9,396
Do Not Do Fixtures		129
Sensors		639

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Adult Detention Facility - Main Jail, Sherriff Support Services Complex</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New LED 1x1 Canopy Light	12
1500W Metal Halide Flood	HO LED Sports Lighter	12
250W High Pressure Sodium	New LED Shoebox	44
250W Metal Halide Gooseneck	New LED Large Flood	38
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	17
2x4 2T12 Recessed	2x15w 4' LED Tube	480
2x4 4T12 Recessed	2x15w 4' LED Tube	385
2x4 4T8 Recessed	2x15w 4' LED Tube	106
4' 2T12 Existing	New 4' LED Vapor Tight	3
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	574
4' 2T12 Non-Retrofittable	New 4' LED Wrap	9
4' 2T12 Vanity	New 4' LED Vanity/Wrap	3
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	73
4' 3T12 Lamp and Ballast	2x15w 4' LED Tube	384
400W Metal Halide	New LED Large Flood	26
75W Halogen Par 38	17W LED Par 38	21
75W Incandescent	12W LED A19 Lamp	39
8' 2T12 Non-Retrofittable	New 4' LED Wrap	2
Exit Incandescent	New LED Exit	21
Non-Retrofittable 4T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	1
Non-Retrofittable 2' 1T12 Vanity	New 2' LED Vanity	2
T12 Circuline	New LED 1x1 Canopy Light	100
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		261
Retrofit Fixtures		2,091
Do Not Do Fixtures		0
Sensors		0



Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Civic Center - D'Iberville</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	1
2x4 4T8 Recessed	2x15w 4' LED Tube	52
2x4 4T8 Recessed	4x15w 4' LED Tube	105
65W Incandescent BR30	12W LED BR30	80
70W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	4
75W Halogen par 30	12W LED Par 30	4
75W Incandescent	12W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	2
N/A	Passive Infrared Wall Switch, Single Switching	1
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	7
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	1
	Retrofit Fixtures	248
	Do Not Do Fixtures	0
	Sensors	10

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Civic Center - West Harrison</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	14
2x4 4T12 Recessed	2x15w 4' LED Tube	157
2x4 4T8 Recessed	2x15w 4' LED Tube	4
75W Halogen par 30	12W LED Par 30	20
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	2
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	4
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	14
	Retrofit Fixtures	181
	Do Not Do Fixtures	0
	Sensors	6

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Civic Center - Woolmarket, Senior Center - Woolmarket</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	8
2x4 2T8 Recessed	2x15w 4' LED Tube	5
2x4 3T8 Recessed	2x15w 4' LED Tube	46
2x4 3T8 Recessed	3x15w 4' LED Tube	6
2x4 4T8 Recessed	2x15w 4' LED Tube	59
2x4 4T8 Recessed	4x15w 4' LED Tube	160
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	3
75W Incandescent	12W LED A19 Lamp	4
Do Not Do Fixture	Do Not Do Fixture	16
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	9
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	17
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	8
	Retrofit Fixtures	283
	Do Not Do Fixtures	16
	Sensors	26

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Community Center - Good Deeds</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	14
2x4 2T8 Recessed	2x15w 4' LED Tube	36
2x4 4T12 Recessed	2x15w 4' LED Tube	100
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	1
40W G24 Globe	8W LED Globe	48
40W Incandescent	7W LED A19 Lamp	1
75W Halogen par 30	12W LED Par 30	12
75W Halogen par 30 Long Neck	14W LED Par 30 Long Neck	1
Exit Incandescent	New LED Exit	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Passive Infrared Wall Switch, Single Switching	7
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	5
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	16
	Retrofit Fixtures	199
	Do Not Do Fixtures	0
	Sensors	12

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Community Center - Isaiah Fredericks</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
1500W Metal Halide Flood	HO LED Sports Lighter	3
175W Metal Halide	New LED Medium Flood	7
2x4 4T12 Recessed	2x15w 4' LED Tube	98
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	1
4' 2T12 Vanity	New 4' LED Vanity/Wrap	1
75W Incandescent	12W LED A19 Lamp	4
8' 2T8 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	14
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	4
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	2
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	8
	Retrofit Fixtures	120
	Do Not Do Fixtures	0
	Sensors	6

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Community Center - Success</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	5
2x4 4T8 Recessed	2x15w 4' LED Tube	30
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	1
400W Metal Halide	New 8' LED Wrap	4
Do Not Do Fixture	Do Not Do Fixture	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	9
	Retrofit Fixtures	31
	Do Not Do Fixtures	2
	Sensors	0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Courthouse - Biloxi</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2' LED Vanity	1
100W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	6
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	12
2x4 2T12 Recessed	2x15w 4' LED Tube	3
2x4 2T8 Recessed	2x15w 4' LED Tube	55
2x4 3T8 Recessed	2x15w 4' LED Tube	203
2x4 4T12 Recessed	2x15w 4' LED Tube	47
2x4 4T8 Recessed	2x15w 4' LED Tube	44
2x75W Incandescent	New LED 1x1 Canopy Light	2
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	34
60W Incandescent	12W LED A19 Lamp	2
75W Incandescent	12W LED A19 Lamp	59
Non-Retrofittable 2T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	1
Non-Retrofittable 3T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	7
Non-Retrofittable 3T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 3x15w 4' LED Tubes	14
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	33
N/A	Hallway Occupancy Sensor - Wireless	14
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	4
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	25
	Retrofit Fixtures	465
	Do Not Do Fixtures	0
	Sensors	51

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Courthouse - Gulfport</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	4
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	36
2x2 3PL Recessed	2x9w 2' LED Tube	10
2x4 2T8 Recessed	2x15w 4' LED Tube	513
2x4 2T8 Recessed	2x4 LED Panel	4
2x4 3T8 Recessed	2x15w 4' LED Tube	536
2x4 3T8 Recessed	3x15w 4' LED Tube	28
2x4 3T8 Recessed	2x4 LED Panel	10
2x4 4T8 Recessed	2x15w 4' LED Tube	285
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	74
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	67
4' 2T8 Non-Retrofittable	New 4' LED Wrap	13
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	1
400W Metal Halide	2x4 LED Panel	42
60W Incandescent	12W LED A19 Lamp	7
75W Halogen par 30	12W LED Par 30	12
8' 2T12 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	23
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	29
8' 2T8 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	14
Candelabra E12 25W	5W LED Candelabra E12	8
Do Not Do Fixture	Do Not Do Fixture	4
Exit Incandescent	New LED Exit	8
Non-Retrofittable 2T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	4
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	144
N/A	Hallway Occupancy Sensor - Wireless	52
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	21
	Retrofit Fixtures	1,707
	Do Not Do Fixtures	4
	Sensors	196



Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fairgrounds - Arena, Office &amp; Meeting Rms</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 8' LED Wrap	10
100W Metal Halide	New LED 1x1 Canopy Light	5
1500W Metal Halide Highbay	New High Output LED Highbay	65
1500W Metal Halide Highbay	New 200w LED Highbay	13
175W Metal Halide	New LED Medium Flood	15
250W Metal Halide Gooseneck	New LED Large Flood	10
2x4 4T12 Recessed	2x15w 4' LED Tube	4
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	2
4' 2T12 Non-Retrofittable	New 4' LED Wrap	1
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	8
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	14
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	2
40W Incandescent	7W LED A19 Lamp	1
75W Incandescent	12W LED A19 Lamp	3
8' 2T12 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	4
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		119
Retrofit Fixtures		38
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Family Services (Gulfport) - Admin Offices (Bldg A), Counseling Offices (Bldg B), Family Court Center (Bldg C), Children's Shelter, Modulares</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
2x2 2T12 Recessed	2x9w 2' LED Tube	6
2x4 3T12 Recessed	2x15w 4' LED Tube	18
2x4 4T12 Recessed	2x15w 4' LED Tube	17
4' 1T12 Lamp and Ballast	1x15w 4' LED Tube	1
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	33
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	5
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	3
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	62
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	4
40W Incandescent	7W LED A19 Lamp	8
75W Halogen par 30	12W LED Par 30	6
75W Incandescent	12W LED A19 Lamp	82
75W Incandescent	New 4' LED Vanity/Wrap	4
8' 2T12 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	2
8' 2T8 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	4
Do Not Do Fixture	Do Not Do Fixture	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	None	21
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	4
	Retrofit Fixtures	245
	Do Not Do Fixtures	3
	Sensors	0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - Lizana #1</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide	New Small LED Flood	9
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	3
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	22
400W Metal Halide	New LED Wallpack	4
40W G24 Globe	8W LED Globe	12
40W Incandescent	7W LED A19 Lamp	2
Do Not Do Fixture	Do Not Do Fixture	6
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		13
Retrofit Fixtures		39
Do Not Do Fixtures		6
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - West Wortham #2</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	10
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	4
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	14
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	7
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	5
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	1
400W Metal Halide	New 200w LED highbay	6
40W Incandescent	7W LED A19 Lamp	3
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
Replace Existing Photocell	New Photo Cell	1
<b>Summary</b>		
		<b>Count</b>
New Fixtures		16
Retrofit Fixtures		36
Do Not Do Fixtures		0
Sensors		1

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - County Farm Rd #3</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	8
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	4
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	22
400W Metal Halide	New 200w LED highbay	12
40W Incandescent	7W LED A19 Lamp	3
Exit Incandescent	New LED Exit	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		22
Retrofit Fixtures		29
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - County Farm #4</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	10
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	12
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	16
400W Metal Halide	New 200w LED highbay	5
40W G24 Globe	8W LED Globe	11
40W Incandescent	7W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		15
Retrofit Fixtures		42
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - Canal Road #5</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	8
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	19
400W Metal Halide	New 200w LED highbay	5
40W G24 Globe	8W LED Globe	6
40W Incandescent	7W LED A19 Lamp	3
75W Halogen par 30	12W LED Par 30	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		13
Retrofit Fixtures		29
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Fire Station - Delisle #6</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	10
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	12
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	16
400W Metal Halide	New 200w LED highbay	5
40W G24 Globe	8W LED Globe	11
40W Incandescent	7W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
Replace Existing Photocell	New Photo Cell	1
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	15
	Retrofit Fixtures	42
	Do Not Do Fixtures	0
	Sensors	1



Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Fire Station - West Harrison #7</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	12
18" 1T12 Existing	New LED UR Kit	2
2' 2T12 Existing	2x9w 2' LED Tube	1
2x4 4T12 Recessed	2x15w 4' LED Tube	11
2x4 4T8 Recessed	2x15w 4' LED Tube	3
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	5
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	1
40W Incandescent	7W LED A19 Lamp	2
8' 4T12 Lamp and Ballast	4x15w 4' LED Tube	9
Exit Incandescent	New LED Exit	6
N/A	Install Emergency Ballast for Security - If Needed	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	18
	Retrofit Fixtures	35
	Do Not Do Fixtures	0
	Sensors	0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Fire Station - Saucier #8</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	7
2x4 4T12 Recessed	2x15w 4' LED Tube	5
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	1
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	8
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	2
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	1
40W G24 Globe	8W LED Globe	9
40W Incandescent	7W LED A19 Lamp	3
Do Not Do Fixture	Do Not Do Fixture	5
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		7
Retrofit Fixtures		29
Do Not Do Fixtures		5
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - Success #9</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	8
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	2
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	2
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	14
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	3
400W Metal Halide	New 200w LED highbay	11
40W Incandescent	7W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		19
Retrofit Fixtures		24
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - Bethel Road #10</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	8
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	1
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	16
4' 4T8 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	3
400W Metal Halide	New 200w LED highbay	5
40W G24 Globe	8W LED Globe	6
40W Incandescent	7W LED A19 Lamp	1
75W Incandescent	12W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	13
	Retrofit Fixtures	30
	Do Not Do Fixtures	0
	Sensors	0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - North Woolmarket #11</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	8
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	4
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	22
400W Metal Halide	New 200w LED highbay	12
40W Incandescent	7W LED A19 Lamp	3
Exit Incandescent	New LED Exit	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		22
Retrofit Fixtures		29
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - East Harrison #12</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	10
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	1
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	16
400W Metal Halide	New 200w LED highbay	11
40W G24 Globe	8W LED Globe	11
40W Incandescent	7W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		21
Retrofit Fixtures		31
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Fire Station - Cuevas #13</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	5
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	19
400W Metal Halide	New 200w LED highbay	5
40W G24 Globe	8W LED Globe	12
40W Incandescent	7W LED A19 Lamp	3
75W Incandescent	12W LED A19 Lamp	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		10
Retrofit Fixtures		36
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Fire Station - Henderson Point #14</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	3
2x4 4T8 Recessed	2x15w 4' LED Tube	6
75W Incandescent	12W LED A19 Lamp	38
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	3
	Retrofit Fixtures	44
	Do Not Do Fixtures	0
	Sensors	0



Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Health Department - Gulfport</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide	Ballast Bypass and LED Corn Cob	16
150W Quartz Halogen	New Small LED Flood	4
250W High Pressure Sodium	New LED Shoebox	11
2x2 2FT40 PL	New 2x2 Recessed Troffer w/ 2x9w 2' LED Tube	40
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	1
2x32W CFL	New LED 1x1 Canopy Light	5
2x4 3T8 Recessed Parabolic Lens	2x15w 4' LED Tube	202
4' 2T12 Non-Retrofittable	New 4' LED Wrap	1
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	193
90W Halogen Par 38	19W LED Par 38	20
Do Not Do Fixture	Do Not Do Fixture	60
N/A	Install Emergency Ballast for Security - If Needed	20
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	32
N/A	Hallway Occupancy Sensor - Wireless	22
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	10
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	61
	Retrofit Fixtures	452
	Do Not Do Fixtures	60
	Sensors	64

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Human Services - Biloxi</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	10
2x4 2T8 Recessed	2x15w 4' LED Tube	4
2x4 4T8 Recessed	2x15w 4' LED Tube	160
T12 Circuline	New LED 1x1 Canopy Light	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	10
N/A	Hallway Occupancy Sensor - Wireless	10
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	3
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	11
	Retrofit Fixtures	164
	Do Not Do Fixtures	0
	Sensors	23

Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Human Services - Gulfport</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	30
175W Metal Halide	New LED Medium Flood	28
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	94
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	11
2x4 2T12 Recessed	2x15w 4' LED Tube	5
2x4 3T12 Recessed	2x15w 4' LED Tube	468
2x4 3T8 Recessed	2x15w 4' LED Tube	16
2x4 3T8 Recessed Parabolic Lens	2x15w 4' LED Tube	42
2x4 4T12 Recessed	2x15w 4' LED Tube	11
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	35
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	12
75W Incandescent	12W LED A19 Lamp	3
Exit Incandescent	New LED Exit	4
N/A	Install Emergency Ballast for Security - If Needed	24
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	31
N/A	Hallway Occupancy Sensor - Wireless	46
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	32
	Retrofit Fixtures	751
	Do Not Do Fixtures	0
	Sensors	77

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 Harrison County, MS

<b>Justice Court - Biloxi</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide	New LED 1x1 Canopy Light	5
2x4 3T8 Recessed	2x15w 4' LED Tube	6
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	46
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
	Ceiling Mount Occupancy Sensor - Wireless	3
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	5
	Retrofit Fixtures	52
	Do Not Do Fixtures	0
	Sensors	3

Exhibit A Attachment 1 – Lighting Upgrades Scope  
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<b>Justice Court - Gulfport</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	10
175W Metal Halide	New LED Medium Flood	3
Do Not Do Fixture	Do Not Do Fixture	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	3
	Retrofit Fixtures	10
	Do Not Do Fixtures	3
	Sensors	0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Maintenance (Lorraine Rd) - Dist. #4 Road and Mosquito, Recycling Center, Storage Shed, VO-TECH</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2'LED Vanity	1
100W Incandescent Jelly Jar	New LED Mini Wallpack	1
100W Metal Halide	New LED 1x1 Canopy Light	6
175W Metal Halide	New LED Medium Flood	6
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	6
2x4 4T12 Recessed	2x15w 4' LED Tube	20
2x4 4T8 Recessed	2x15w 4' LED Tube	14
4' 2T12 Existing	New 4' LED Vapor Tight	6
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	9
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	11
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	2
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	1
4' 4T12 Non-Retrofittable	New 4' LED Wrap	1
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	1
400W Metal Halide	New 200w LED highbay	39
40W Incandescent	7W LED A19 Lamp	1
75W Incandescent	12W LED A19 Lamp	22
8' 2T12 Existing	8' 2 x 4' LED Tube w/ NEW Belly Pan	12
8' 2T12 Non-Retrofittable	New 8' LED Wrap	35
Exit Incandescent	New LED Exit	1
N/A	Install Linear Fluorescent Tube Guards for Safety	18
Non-Retrofittable 4T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	2
Replace Existing Photocell	New Photo Cell	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	1
N/A	Individual Fixture Sensor	14
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	3
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	99
	Retrofit Fixtures	99
	Do Not Do Fixtures	0
	Sensors	18

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Multi-purpose Bldg - D'Iberville</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	8
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	19
400W Metal Halide	New 200w LED highbay	12
Exit Incandescent	New LED Exit	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		<b>Count</b>
New Fixtures		21
Retrofit Fixtures		19
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Office - Code/Eng &amp; Fire</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Medium Flood	8
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	6
2x4 2T12 Recessed	2x15w 4' LED Tube	35
2x4 4T12 Recessed	2x15w 4' LED Tube	97
2x4 4T8 Recessed	2x15w 4' LED Tube	3
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	1
40W Incandescent	7W LED A19 Lamp	10
70W Metal Halide	New LED Mini Wallpack	6
75W Incandescent	12W LED A19 Lamp	2
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	1
Non-Retrofittable 4T12 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	15
N/A	Hallway Occupancy Sensor - Wireless	6
N/A	Wall Mount Occupancy Sensor - Wireless	3
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	6
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	16
	Retrofit Fixtures	155
	Do Not Do Fixtures	0
	Sensors	30



Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Office - County Office Building</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2'LED Vanity	6
100W Metal Halide	New LED 1x1 Canopy Light	3
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	2
2x4 2T8 Recessed	2x15w 4' LED Tube	18
2x4 3T8 Recessed	2x15w 4' LED Tube	68
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	2
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	4
Exit Incandescent	New LED Exit	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	3
N/A	Hallway Occupancy Sensor - Wireless	5
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	1
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	12
	Retrofit Fixtures	94
	Do Not Do Fixtures	0
	Sensors	9

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Office - Election Commission</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2' LED Vanity	1
2' 2T12 Existing	2x9w 2' LED Tube	2
2x4 2T8 Recessed	2x15w 4' LED Tube	23
2x4 3T8 Recessed	2x15w 4' LED Tube	19
2x4 4T12 Recessed	2x15w 4' LED Tube	21
2x4 4T8 Recessed	2x15w 4' LED Tube	66
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	11
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	16
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	37
75W Incandescent	12W LED A19 Lamp	36
8' 2T12 Non-Retrofittable	New 8' LED Wrap	2
N/A	Install Emergency Ballast for Security - If Needed	24
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	3
N/A	Hallway Occupancy Sensor - Wireless	2
N/A	Wall Mount Occupancy Sensor - Wireless	1
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	3
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	3
	Retrofit Fixtures	255
	Do Not Do Fixtures	0
	Sensors	9

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Senior Center - D'Iberville</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	9
175W Metal Halide	New LED Medium Flood	12
2x4 4T12 Recessed	2x15w 4' LED Tube	50
2x4 4T8 Recessed	2x15w 4' LED Tube	69
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	12
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	22
4x42W CFL Parking Fixture	New LED Parking Fixture	2
Do Not Do Fixture	Do Not Do Fixture	29
Non-Retrofittable 4T8 Recessed 2x4 Troffer	New 2x4 Recessed Troffer w/ 2x15w 4' LED Tubes	2
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	1
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	9
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	16
	Retrofit Fixtures	162
	Do Not Do Fixtures	29
	Sensors	10

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Senior Center - Lyman</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 4' LED Wrap	14
175W Metal Halide	New LED Wallpack	6
2x4 4T12 Recessed	2x15w 4' LED Tube	20
2x4 4T8 Recessed	2x15w 4' LED Tube	8
2x4 4T8 Recessed	4x15w 4' LED Tube	6
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	2
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	2
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	14
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	7
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	67
40W Incandescent	7W LED A19 Lamp	2
70W Metal Halide	New LED Mini Wallpack	1
75W Incandescent	12W LED A19 Lamp	9
Candelabra E12 25W	5W LED Candelabra E12	11
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	2
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	11
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	21
	Retrofit Fixtures	148
	Do Not Do Fixtures	0
	Sensors	13

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Senior Center - Frances Fredericks</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
175W Metal Halide	New LED Wallpack	2
175W Metal Halide	New LED Medium Flood	2
2x4 4T12 Recessed	2x15w 4' LED Tube	59
2x4 4T8 Recessed	2x15w 4' LED Tube	49
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	10
40W Incandescent	7W LED A19 Lamp	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	New VendMiser	8
N/A	No Sensor	1
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	9
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	4
	Retrofit Fixtures	119
	Do Not Do Fixtures	0
	Sensors	18

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Senior Center - Saucier</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
150W Quartz Halogen	New Small LED Flood	8
2x4 4T8 Recessed	2x15w 4' LED Tube	75
75W Incandescent	12W LED A19 Lamp	1
8' 2T8 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	4
Exit Incandescent	New LED Exit	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Dual Circuit Switching	8
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	9
	Retrofit Fixtures	80
	Do Not Do Fixtures	0
	Sensors	8

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Work Center (D'Iberville)</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	1
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	5
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	4
4' 4T12 Lamp and Ballast	4x15w 4' LED Tube	6
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	15
400W Metal Halide	New 200w LED highbay	16
75W Incandescent	12W LED A19 Lamp	1
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	13
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	1
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	16
	Retrofit Fixtures	45
	Do Not Do Fixtures	0
	Sensors	1

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Work Center (Long Beach) - Garage, Office</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 4' LED Wrap	1
100W Metal Halide	New LED 1x1 Canopy Light	1
175W Metal Halide	New LED Medium Flood	8
2x4 2T12 Recessed	2x15w 4' LED Tube	2
2x4 4T12 Recessed	2x15w 4' LED Tube	26
2x4 4T8 Recessed	2x15w 4' LED Tube	2
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	4
400W Metal Halide	New 200w LED highbay	7
75W Incandescent	12W LED A19 Lamp	6
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	3
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	2
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	17
	Retrofit Fixtures	41
	Do Not Do Fixtures	0
	Sensors	1



Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Work Center (Lorraine Rd) - County Garage, Penal Institute &amp; Sheriffs Dispatch</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2'LED Vanity	1
100W Incandescent Jelly Jar	New LED Mini Wallpack	2
100W Metal Halide	New LED 1x1 Canopy Light	1
175W Metal Halide	New LED Medium Flood	8
2' 2T12 Existing	2x9w 2' LED Tube	4
2x4 2T12 Recessed	2x15w 4' LED Tube	73
2x4 4T12 Recessed	2x15w 4' LED Tube	19
2x4 4T8 Recessed	2x15w 4' LED Tube	12
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	7
75W Incandescent	12W LED A19 Lamp	8
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	27
Candelabra E12 25W	5W LED Candelabra E12	10
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	N/A	0
<b>Summary</b>		
		<b>Count</b>
New Fixtures		12
Retrofit Fixtures		160
Do Not Do Fixtures		0
Sensors		0

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Work Center (Lorraine Rd) - Wellness Clinic</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 2' LED Vanity	2
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	28
75W Incandescent	12W LED A19 Lamp	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	4
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	2
	Retrofit Fixtures	31
	Do Not Do Fixtures	0
	Sensors	4

Exhibit A Attachment 1 – Lighting Upgrades Scope  
 Harrison County, MS

<b>Work Center (Lyman) - Garage, Office</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Incandescent	New 4' LED Wrap	4
100W Incandescent	New 2' LED Vanity	3
100W Incandescent Jelly Jar	New LED Mini Wallpack	2
100W Metal Halide	New LED 1x1 Canopy Light	1
250W Metal Halide Gooseneck	New LED Large Flood	5
2x4 2T12 Recessed	2x15w 4' LED Tube	10
2x4 3T12 Recessed	2x15w 4' LED Tube	2
2x4 4T8 Recessed	2x15w 4' LED Tube	28
4' 2T12 Non-Retrofittable	New 4' LED Wrap	16
400W Metal Halide	New 200w LED highbay	28
75W Incandescent	12W LED A19 Lamp	5
8' 2T12 Non-Retrofittable	New 8' LED Wrap	3
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	5
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	62
	Retrofit Fixtures	45
	Do Not Do Fixtures	0
	Sensors	1

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Work Center (Sand Beach) - Maintenance, Office</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
2x2 2T12 Recessed U-Tube	2x9w 2' LED Tube	3
2x4 4T12 Recessed	2x15w 4' LED Tube	55
4' 2T12 Lamp and Ballast	2x15w 4' LED Tube	30
4' 2T12 Vanity	New 4' LED Vanity/Wrap	1
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	4
40W Incandescent	7W LED A19 Lamp	3
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	7
8' 2T12 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	12
8' 2T8	New 4' LED Vapor Tight	2
8' 2T8 Existing	8' 4 x 4' LED Tube w/ NEW Belly Pan	6
Candelabra E12 25W	5W LED Candelabra E12	4
Do Not Do Fixture	Do Not Do Fixture	1
Exit Incandescent	New LED Exit	1
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Ceiling Mount Occupancy Sensor - Wireless	2
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	1
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	4
	Retrofit Fixtures	124
	Do Not Do Fixtures	1
	Sensors	3

Exhibit A Attachment 1 – Lighting Upgrades Scope  
Harrison County, MS

<b>Work Center (Woolmarket)</b>		
<b>Fixtures</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
100W Metal Halide	New LED 1x1 Canopy Light	2
175W Metal Halide	New LED Medium Flood	18
2' 2T12 Existing	2x9w 2' LED Tube	1
2x2 2T8 Recessed U-Tube	2x9w 2' LED Tube	5
2x4 2T12 Recessed	2x15w 4' LED Tube	4
2x4 3T12 Recessed	2x15w 4' LED Tube	4
2x4 4T12 Recessed	2x15w 4' LED Tube	25
2x4 4T8 Recessed	2x15w 4' LED Tube	3
4' 2T12 Vanity	New 4' LED Vanity/Wrap	1
4' 2T8 Lamp and Ballast	2x15w 4' LED Tube	2
4' 4T12 Lamp and Ballast	2x15w 4' LED Tube (Remove 2 Lamps)	4
4' 4T8 Lamp and Ballast	4x15w 4' LED Tube	23
70W Metal Halide Rec. Can	LED 17W Par 30 Lamp w/ Ballast Bypass & New Socket	2
Exit Incandescent	New LED Exit	3
N/A	Install Emergency Ballast for Security - If Needed	8
<b>Sensors</b>		
<b>Existing</b>	<b>Retrofit</b>	<b>Count</b>
N/A	Wall-Switch Occupancy Sensor, Dual Technology, Single Switching	2
<b>Summary</b>		
		<b>Count</b>
	New Fixtures	24
	Retrofit Fixtures	81
	Do Not Do Fixtures	0
	Sensors	2