



Energy Savings Performance Contract

February 2020 Update



Agenda

1. Project Scope Summary

2. Cost Savings Review

Project Scope Summary

Site Name	HVAC			Electrical	General		
	H1	H2	H3	E1	G1	G2	G3
AJ Field					✓		
Athletic Complex				✓			
Bus Garage		✓		✓			
Harlow Early Learning Center		✓		✓			
King Middle School	✓	✓		✓		✓	✓
King Middle School Fieldhouse				✓			
Mercer County Elementary School		✓		✓	✓		✓
Mercer County High School		✓	✓	✓		✓	
Mercer County Intermediate School	✓	✓		✓		✓	
Tech Office				✓			

LEGEND

H1	HVAC System Renovations	H2	HVAC Controls System Upgrades	H3	HVAC Controls Re-Commissioning
E1	Lighting Retrofits and Replacements	G1	Utility Rate Changes	G2	Utility Meter Combinations
G3	Kitchen Cooler/Freezer Replacements				

King Middle School

Site Name	HVAC			Electrical	General		
	H1	H2	H3	E1	G1	G2	G3
King Middle School	✓	✓		✓		✓	✓

H1 – HVAC System Renovations

- Conversion of classroom spaces to VRF system
- New chiller, high-efficiency boilers, and two-pipe terminal units

H2 – HVAC Controls System Upgrades

- New controls infrastructure to be installed on HVAC equipment
- Facility's equipment to be visible on web-based controls interface with

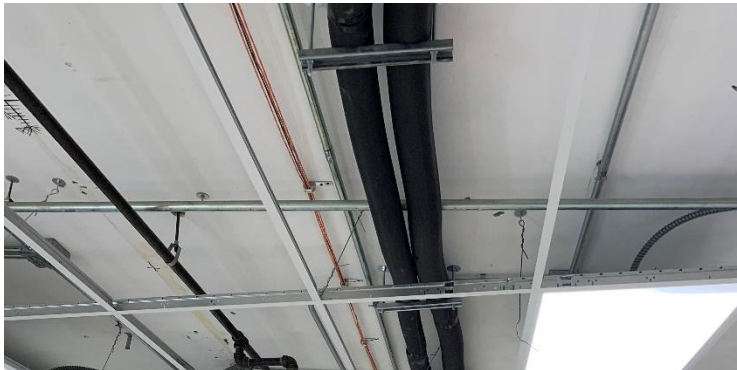
E1 – Lighting Retrofits and Replacements

- Existing fluorescent lights to be replaced with high-efficiency LED retrofits

G2 – Utility Meter Combinations

- Electric meters will be combined to save on monthly meter fees







Mercer County Intermediate School

Site Name	HVAC			Electrical	General		
	H1	H2	H3	E1	G1	G2	G3
Mercer County Intermediate School	✓	✓		✓		✓	

H1 – HVAC System Renovations

- New cooling tower, condensing boilers, water-source heat pumps

H2 – HVAC Controls System Upgrades

- New controls infrastructure to be installed on HVAC equipment
- Facility's equipment to be visible on web-based controls interface

E1 – Lighting Retrofits and Replacements

- Existing fluorescent lights to be replaced with high-efficiency LED retrofits

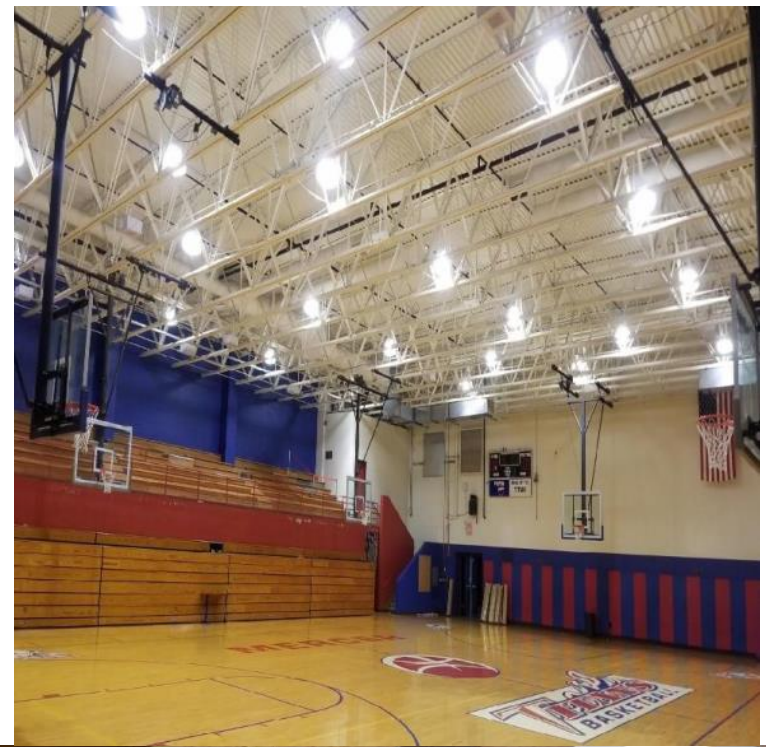
G2 – Utility Meter Combination

- Concession stand meter to be combined with main school service









Fall Work



Agenda

1. Project Scope Summary
- 2. Cost Savings Review**

Cost Savings Review



Building	Construction 2019 Savings
Harlow	\$ 5,034
King Middle	\$ 38,504
Mercer HS	\$ 38,145
Intermediate	\$ 24,600
Elementary	\$ 22,300
Athletic Complex	\$ 1,783
Tech Office	\$ (689)
Bus Garage	\$ 678
KMS Field House	\$ 1,006
AJ Field	\$ 424
Total	\$ 131,783

- Construction Period Savings are a bonus to the financial performance of the project
- \$46,044 in rebates have been submitted for approval
 - \$5,514.50 has been received to date

Cost Savings Review

Building	Baseline EUI	Construction Period EUI	Year 1 EUI	Post Construction
	2016-2018	2019	2020	Guarantee
Harlow	60.2	56.2	49.2	45.9
King Middle	92.1	73.4	64.9	50.4
Mercer HS	51.1	38.6	37.0	37
Intermediate	79.2	78.8	64.6	34
Elementary	55.3	51.6	48.8	38

- Year 1 EUI is based off last 12 months of data. Only includes 1 or 2 months of post construction data
- All facilities are tracking to meet or exceed guarantee

Cost Savings Review

Facility	Calculated First Year Utility Cost Savings	
Harlow Early Learning Center	\$	14,166.00
King Middle School	\$	62,289.00
Mercer Co. Intermediate	\$	51,481.00
Mercer Co. Elementary	\$	47,751.00
Mercer Co. HS	\$	46,347.00
Athletic Complex	\$	5,022.00
Tech Office	\$	531.00
Bus Garage	\$	7,125.00
KMS Field House	\$	1,188.00
AJ Field	\$	325.00
	\$	236,474.00

- Savings are tracking to beat the guaranteed savings

