EDENTON-CHOWAP CHOCK FORMANCE CONTRACTING

Preliminary Energy Analysis

Summary of Potential Energy Conservation Measures (ECMs)

	chs	JHHS	WOES	WES
SYSTEM WIDE EMS	Х	Х	Х	Х
RENOVATE OR NEW ENERGY EFFICIENT HVAC SYSTEM	Χ			
SELECTED HVAC EQUIPMENT REPLACEMENTS		Х		
RETRO-COMMISSIONING (OR Cx of REPLACEMENT HVAC)	Χ	Х	Х	Х
SCHOOL WIDE OCCUPANCY SENSORS	Χ	Х	Х	Х
NEW ENERGY EFFICIENT HIGH BAY GYM LIGHTING SYSTEM	Χ	Х	Х	Х
REDUCED WATTAGE LAMPS AND BALLASTS	80% Existing	30% Existing	Х	Х
SELECTED NEW ENERGY EFFICIENCT LIGHT FIXTURES	Χ	Х	Х	Х
REPLACE SELECTED SINGLE PANE WINDOWS WITH DP	Χ	Х		
SELECTED EXTERIOR LIGHTING REPLACEMENTS	Χ	Х	Х	Х
SELECTED LOW FLOW PLUMBING FIXTURES	Χ	Х	Х	Х



EDENTON-CHOWAPPERFORMANCE CONTRACTING

Preliminary Energy Analysis

Summary of Potential ECM Savings

	Chs	IHHS	WOES	WES	
SYSTEM WIDE EMS	\$4,212	\$5,169	\$2,478	\$2,662	\$14,521
RENOVATE OR NEW ENERGY EFFICIENT HVAC SYSTEM	\$28,937	\$0	\$0	\$0	\$28,937
SELECTED HVAC EQUIPMENT REPLACEMENTS	\$0	\$7,662	\$0	\$0	\$7,662
RETRO-COMMISSIONING (OR Cx of REPLACEMENT HVAC)	\$2,082	\$11,493	\$1,837	\$1,977	\$17,389
SCHOOL WIDE OCCUPANCY SENSORS	\$4,212	\$7,753	\$3,718	\$3,993	\$19,676
NEW ENERGY EFFICIENT HIGH BAY GYM LIGHTING SYSTEM	\$2,808	\$5,169	\$2,478	\$2,662	\$13,117
REDUCED WATTAGE LAMPS AND BALLASTS	\$562	\$5,169	\$2,478	\$1,863	\$10,072
SELECTED NEW ENERGY EFFICIENCT LIGHT FIXTURES	TBD	TBD	TBD	TBD	\$0
REPLACE SELECTED SINGLE PANE WINDOWS WITH DP	\$3,070	\$0	\$0	\$0	\$3,070
SELECTED EXTERIOR LIGHTING REPLACEMENTS	\$678	\$1,256	\$598	\$649	\$3,181
SELECTED LOW FLOW PLUMBING FIXTURES	TBD	TBD	TBD	TBD	\$0
	\$46,561	\$43,671	\$13,587	\$13,806	\$117,625
_	38.4%	23.1%	13.4%	13.1%	



EDENTON-CHOWAP CHOCK FORMANCE CONTRACTING

Preliminary Energy Analysis

Estimated Costs & Savings

- Costs: \$2.5 to \$4.5 per sq ft
- Median building energy savings: 22%
- Median building annual savings: \$32,000/YR
- Median payback time: 10 years



PERFORMANCE CONTRACTING



Energy Conservation Measures:
Building Automation System
upgrades
HVAC System Replacements
Operations Optimization
Occupancy Sensors for Lighting

Energy Efficient Interior Lighting Selected Envelope Upgrades (Windows) Energy Efficient Exterior Lighting Water-Efficient Technologies

PROJECT AT A GLANCE

Project Size:

4 K-12 schools / 378,122 square feet

Projected Project Cost:

\$1.0 to \$1.7 million

Projected Annual Cost Savings:

\$120,000 - \$150,000

Projected Total Project Savings:

\$1.8 to 2.25 million

Greenhouse Gas Emission Reduction:

22%

Projected Simple Payback:

10 years (financed over 15 years)

