



Pacific Grove Unified School District

Preliminary Assessment Report

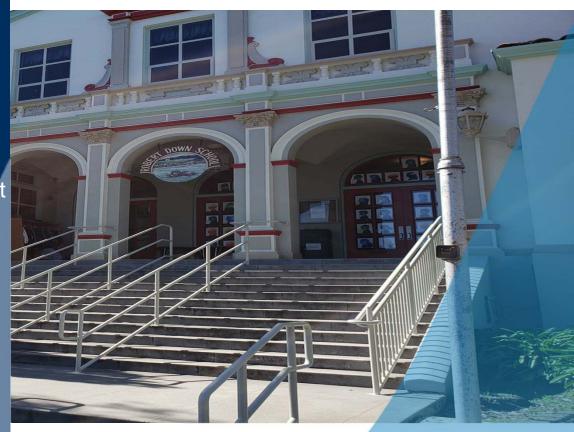
Board of Trustees

CA Contracting Program GC §4217

Presented by: ABM Building Solutions, LLC

CSLB #976012

May 18 2023





WHO WE ARE

PURPOSE

To take care of the people, spaces and places that are important to you

VISION

To be the clear choice in the industries we serve through engaged people

MISSION

To make a difference, every person, every day

Key Preliminary Assessment Team Members





Robert Lallement
Regional Account Manager



Brett Lichtenthaler Regional Vice President



Kevin Wolfe, PE Lead Project Developer



Derek Reichstein Regional Director

Preliminary Assessment Steps





Mechanical Equipment & Building Controls

Current Status

- Aging HVAC equipment and water heaters
- · Some equipment well beyond useful life
- Ventilation does not currently meet recommended indoor air quality standards

- Upgrade aging & inefficient mechanical equipment to improve efficiency and ventilation
- Integration into existing Pelican control system will be fit for purpose
- Heat exchanger upgrade to HS Boiler









Lighting Systems

Current Status

- LED upgrades to interior and exterior has been mostly completed
- · Areas still in need of retrofits

- Upgrade all remaining interior and exterior spaces to LED lighting
 - Electric utility savings range from 50% to 80%
 - LED bulb life 25,000-50,000 hours (reduced maintenance)
 - Light rendering significantly better
- Upgrade stadium lighting to LED and improve overall lighting layout
- Add occupancy and daylighting controls where applicable









Building Envelope & Water Conservation

Current Status

- Aging buildings across the district
- Domestic fixtures are a mixture of standard, low flow and waterless fixtures
- Water usage is considerably above average

- · Door weather stripping and sealing
- · Sealing of windows and other external penetrations
- Upgrade domestic water heaters
- Upgrade domestic fixtures to low flow and add pedal valves
- Upgrade all irrigation controllers to WeatherTrak smart irrigation controllers
- Window replacement











Energy Resilience

Current Status

- Frequent power shut-offs District Wide causing IT issues
- Loss of ~6.5 instructional and operational days per year

- Battery Energy Storage System at Middle School to keep IT systems running in the event of a utility shut-off
- Size battery to keep other district designated essential services running during utility shut-off event
- Strategically implement PV systems across the district









- Baseball fields artificial turf conversion
- Plug load optimization
- Building automation improvements
- Attic insulation
- Roofing
- Electrical service upgrades
- EV charging
- Appliance upgrades







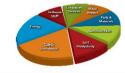




PGUSD Estimated Utility Savings



Utility Data Analysis



Facility Building Name	Gross Square Feet	Annual Utility Cost	Cost per Sq/Ft	Post Retrofit	
				Targeted per Sq/Ft	\$ Savings
Adult School	25,536	\$ 37,989	\$ 1.49	\$ 1.24	\$ 6,325
Robert Down Elem.	47,153	\$ 95,632	\$ 2.03	\$ 1.55	\$ 22,545
Community HS	30,919	\$ 20,996	\$ 0.68	\$ 0.58	\$ 3,063
District Office	16,550	\$ 15,207	\$ 0.92	\$ 0.77	\$ 2,418
Forest Grove	39,257	\$ 90,297	\$ 2.30	\$ 1.86	\$ 17,279
Pacific Grove High School	95,338	\$ 293,945	\$ 3.08	\$ 2.14	\$ 89,922
Pacific Grove Middle School	65,136	\$ 170,352	\$ 2.62	\$ 1.88	\$ 47,896
			\$ -	\$ -	\$ -
			\$ -	\$ -	\$ -
Totals	319,889	\$ 724,419	\$ 2.26	\$ 1.67	\$ 189,448

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Property of ABM - Confidential and Proprietary

^{*} all numbers displayed are based on available information provided by Pacific Grove Unified School District and are subject to change

Leveraging Savings for Funding with CA §4217

Financial Overview

Area of Annual Savings	Amount	
Utility Savings	\$189K	
Maintenance and Operational Savings*	\$63K	
Cost Avoidance Savings	TBD	
Total Annual Savings	\$252K-310K	

Solutions are funded through existing operational budget

*US Department of Energy: How to Determine and Verify Operating and Maintenance Savings in Energy Savings Performance Contracts; March 2018
https://www.energy.gov/sites/prod/files/2018/03/f49/om_savings_guidance.pdf



Benefits of GC §4217



- Select a partner who provides the best value
- Accomplish Facility, Technology & Infrastructure improvements
- Collaborative design
- Reduced overall project cost and time to implementation
- Reduce Utility and Operational expenses
- Savings fund the improvements
- ABM Guarantees the savings
- No Change orders
- No Cost overruns



*GC §4217 was approved in 1984 and revised in 2005 to encourage public agencies to improve building efficiency & Infrastructure





Alternative Revenue Sources & Grants

ABM's team of grant writers will help you and your staff pursue alternative revenue and grant opportunities at no additional cost.



Project Benefits to PGUSD

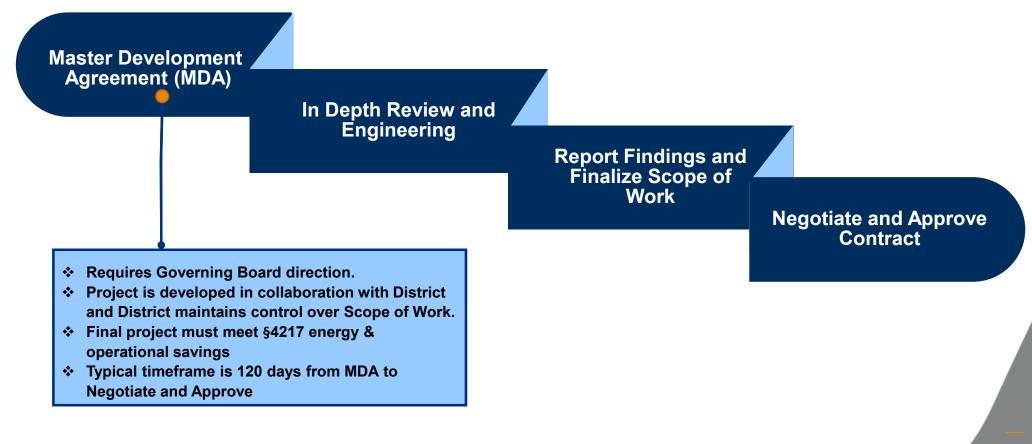
- Increase productivity and health of students and employees through improved learning/workspaces
- Significant energy savings and general fund relief
- Recover lost instruction caused by PG&E outages
- Significant reduction in Water use
- Meet Governing and District facility improvement initiatives
- Stretch the impact of Measure D funds
- Strengthen your role as a positive steward of physical and fiscal resources within the Pacific Grove Community

"Pacific Grove Unified School District, in partnership with the community and with a focus on equity, will challenge every student by providing a quality instructional program in a positive, safe and stimulating environment."





Process Beyond the Preliminary Assessment







Thank You

ABM Building Solutions, LLC

Robert Lallement

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ELECTRICAL

40,000+ parking lot poles and lights serviced and maintained



ENERGY

23% average energy reduction for client properties



EV CHARGING

6,000+ EV charging stations installed and maintained



HVAC & MECHANICAL

14,375+ heating and cooling systems serviced and maintained



JANITORIAL

484+ million sq. ft. of buildings cleaned and serviced



LANDSCAPE & TURF

600+ properties maintained



PARKING & TRANSPORTATION

300,000+ parking spaces and **500+** parking locations managed





California

Our 20,350+ team members in California are dedicated to providing maintenance to 3,700+ facilities, including LAX, SFO, BUR, and SJC airports.

- ✓ Over 40 years in business with \$713 Million in Current Guarantees
- ✓ Adequate Financial Resources \$1.5 billion in revenue in California













Founded in San Francisco in **1909** We operate LAX, SFO, BUR, and SJC airports

20,350+ Californians employed

branch locations

\$1.1+ billion in revenue

3,700+ buildings serviced and maintained

DOE Qualifications and Licenses



- U.S. Department of Energy's (DOE) Qualified List of ESCOs: ABM has been added to the DOE's List to conduct Energy Savings
 Performance Contracts (ESPCs) with Federal & State Agencies. We are currently developing projects across the nation in their
 most mission critical environments & data centers.
- NAESCO Accredited: ABM has been accredited by the National Association of Energy Service Companies.
- State of California Department of General Services (DGS) Prequalified ESCO
- B General Building Contractor
- C-4 Boiler, Hot Water Heating and Steam Fitting
- C-7 Low Voltage Systems
- C10 Electrical
- C20 Warm-Air Heating, Ventilating and Air-Conditioning
- C36 Plumbing
- C38 Refrigeration
- C43 Sheet Metal
- C-61 / D62 Air and Water Balancing
- C-61 / D65 Weatherization and Energy Conservation









Bonding, DSA, and Litigation





- Bonding Limits
 \$70M on a single project & \$500M aggregate
- DSA Experience
 Lompoc USD, Winters USD, Newcastle ESD
- Pending Litigation
 ABM has no pending/recent litigation relating to any efficiency improvement project performance or measurement and verification (M&V)

ABM's Annual Report & Audited Financial Statements are available at www.abm.com



Government Code §4217 Improvement Examples

- Heating, Ventilation and Air Conditioning Improvements
- Park, Street and Parking Lot Lighting Retrofits
- Building Interior Lighting Retrofits
- Swimming Pool Heating and Water Conservation
- Grounds Irrigation Systems Improvements
- Ceiling Replacements

- Domestic Water Conservation Measures
- Electric or NG Buses and Work Vehicles
- Window and Door Replacements
- Roof Replacement or Repairs
- Building Automation Systems
- High Efficiency Transformers
- Hard Scape
- ADA Access

- Building Envelop Sealing
- Solar PV, Solar Thermal
- Wind Turbine Energy
- Electrical Upgrades
- Plug Load Controls
- Biomass Energy
- Battery Storage
- Sub Metering
- Green Roofs
- UPS







PERFORMANCE CONTRACTING

- Initial Feasibility Analysis
- Measurement & Verification
- Engineering Calculations & Design
- Repairs, Replacements, Retrofits & Upgrades
- Identification & Processing of Utility Rebates & EPA Tax Incentives
- Structuring Financing Terms to Generate Positive Cash Flow
- Commissioning & Retro-Commissioning
- On-Site Training

ABM Infrastructure Solutions

High-efficiency conservation, facility modernization & technical service program that addresses both facility upgrades & funding needs of clients.

*Performance Contracting serviced out of HVAC & Maintenance Locations.