

HVAC Replacement and Building Controls Upgrade (Summer 2016)

Moreno Jr. High and A.C. Jones High School

1. Replace (13) Large HVAC Systems that range in age from 15 - 23 years-old

\$315,095 Project Cost (Small District HVAC Loan Application to State submitted February 5, 2016)

- If awarded by State in April 2016, finance rate is .25% over 8 year term (\$3,200 total interest)
- Utility Rebate: \$ 7,800

A.C. Jones High School (300 wing)

2. Replace (4) Outside Air HVAC Units that are not working and re-commission the existing controls

\$62,891 Project Cost

- To meet ASHRAE outside air requirements per code

HMD Elementary School

3. Replace (5) Large HVAC Condensing Units (200 tons) and retrofit existing building controls

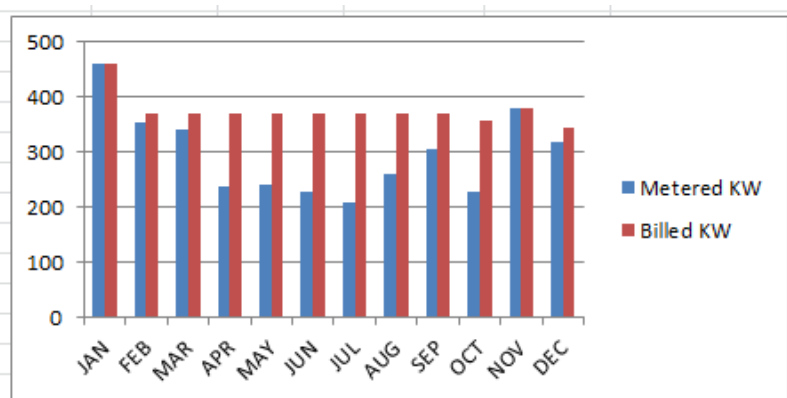
\$322,271 Project Cost

- 2015 – \$90,268 electricity cost, \$2.05 cost/sq.ft., high energy cost due to HVAC/Controls
- 44,000 sq.ft. elementary school should operate \$1.10 – \$1.55 (\$41,868 -\$22,068 savings)
- Annual energy and maintenance savings will pay for project cost over 7 years

Finance rate will be 2.8% for 7 years on projects listed (excluding State Loan Program if awarded)

HMD Demand Charges

	Metered KW	Billed KW
JAN	462	462
FEB	355	370
MAR	342	370
APR	238	370
MAY	243	370
JUN	228	370
JUL	209	370
AUG	261	370
SEP	307	370
OCT	228	358
NOV	381	381
DEC	320	346



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Financial Aspects of Projects

Project	Project Cost	Finance Rate	Annual Payment	Term/ Years
State HVAC Loan	\$315,095	.25%	\$39,786	8 years
300 Wing/HMD	\$385,162	2.79%	\$53,774	8 years
All Projects	\$700,257	2.79%	\$97,765	8 years

- \$15,000 – 22,000 Estimated Utility Rebates for New HVAC Units
- \$22,068 – 41,868 Estimated Energy Savings at HMD (Trane to track results)
- 5 year Parts Warranty on New HVAC Units
- \$20,000 Estimated in HVAC Repair Savings
- Purchased through BuyBoard Inter-local agreement

Existing Units



New Trane HVAC Units



New Web Based and Wireless Control System (HMD)

