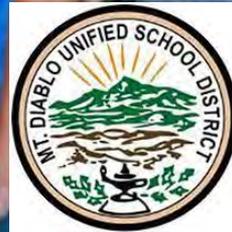


Mt. Diablo USD

RFQ#1896 – Phase #2

Building Controls and Non-DSA HVAC

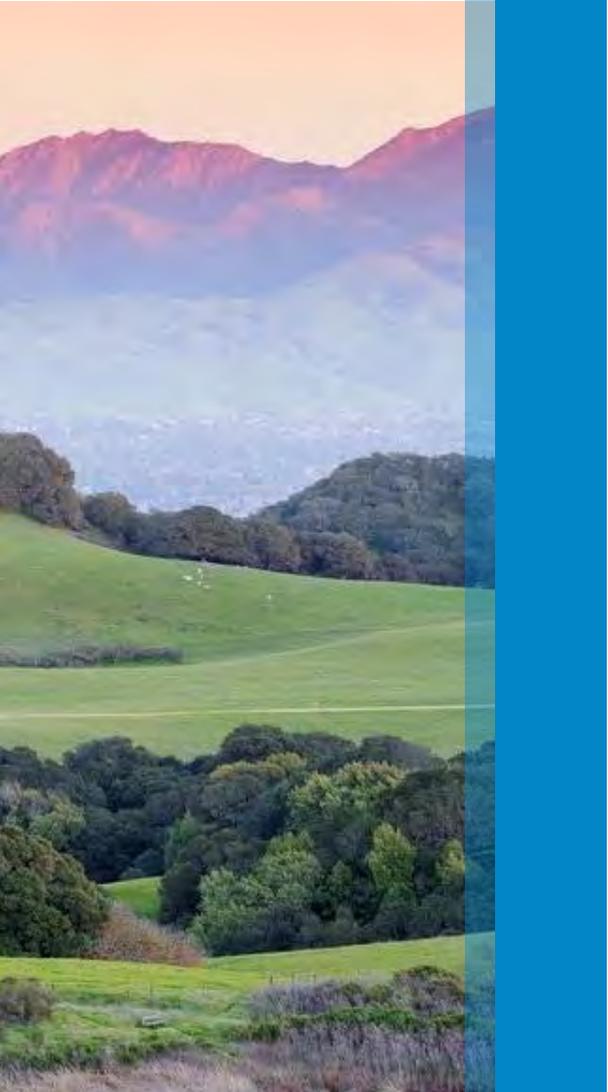
March 22nd, 2023



Schneider Electric Construction – Building Controls and Non-DSA HVAC



<input type="checkbox"/>	Introduction
<input type="checkbox"/>	Recap
<input type="checkbox"/>	Project Tracks
<input type="checkbox"/>	Audit Results
<input type="checkbox"/>	Design Consideration
<input type="checkbox"/>	Recommended Projects
<input type="checkbox"/>	Benefits
<input type="checkbox"/>	Questions/Answers

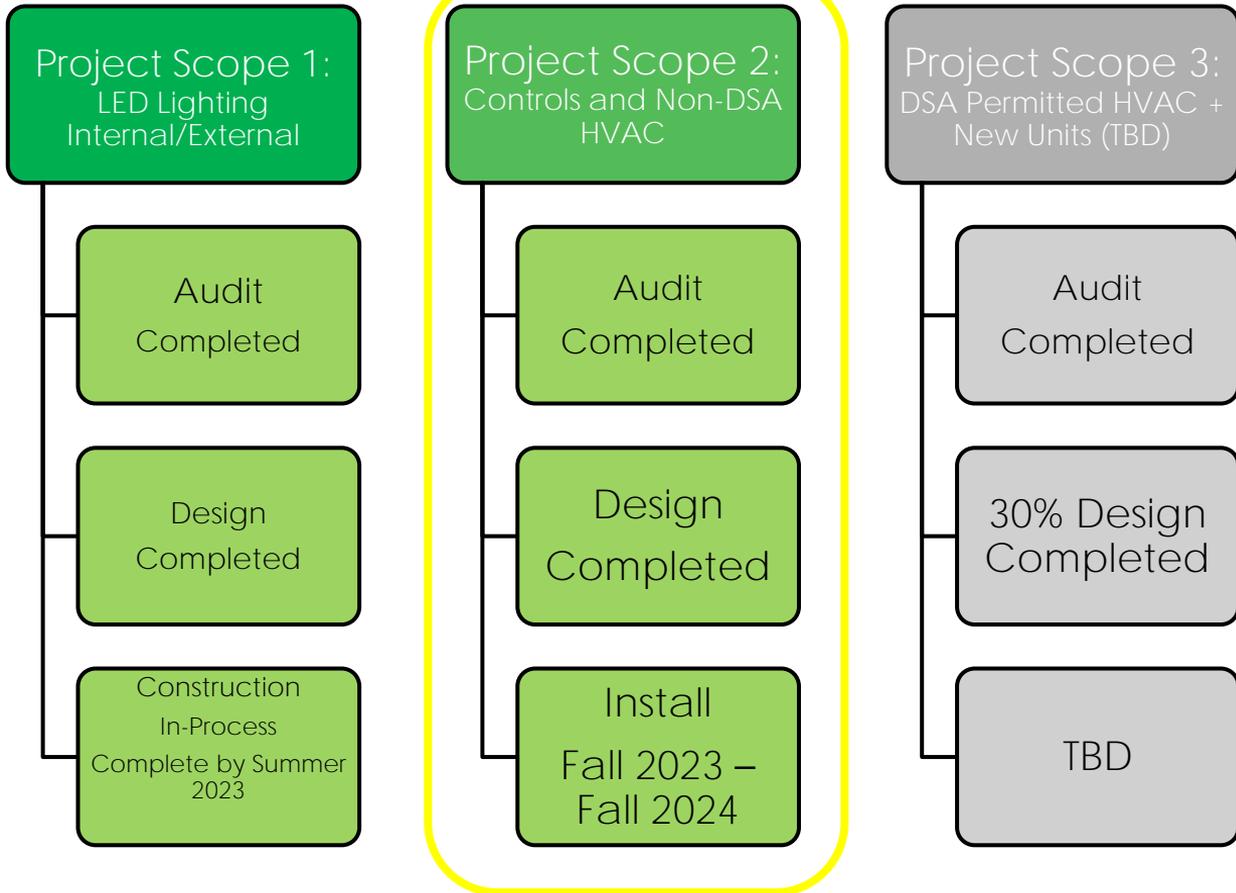


Project Background

RFQ#1896 – Energy Efficiency Improvements

- Schneider Electric was chosen via RFQ #1896 for Energy Services Companies to assist the District with multiple energy efficiency improvements.
- The District interviewed multiple responding companies and selected Schneider Electric as most qualified.
- The subsequent Design-Build Agreement between Schneider Electric and Mt. Diablo USD was approved via CA Government Code 4217.10-18.
- Tonight, you are reviewing the second “Project Track”

Project Tracks – Track 2



Audit Details

Multi-Month Investigation

- District-wide inventory of every HVAC system
- Evaluation of existing building control system and uncontrolled space
- Age, unit/controller type, manufacturer, visual observation, District feedback, utility spend
- Provided District with audit “database”



Audit Photo Examples



Design Process

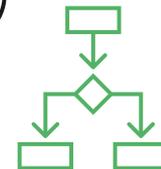
Agreed Upon Guideline

Building Controls

- District-wide standardization
- Remaining Sites not included in Prop 39 project
- Integration to all mechanical and exterior lighting systems

HVAC (Non-DSA)

- 17 Years and Over from Jan 2024
- No DSA Permit Required
- Whole Roof/Building Replacement



Recommended Project

Modernizing Mt. Diablo USD

Project

- Turnkey District-Wide Controls Upgrades
 - Standardize existing controls to SE recommended protocols
 - 21 site expansion of controls across District
 - 32 new sites and multiple new building wings
 - Exterior lighting integration
 - Commissioning and training

- Turnkey HVAC Replacements
 - 249 new HVAC units
 - Fast tracked for install
 - Oldest units
 - Commissioning and integration into building controls



Project Price

Fixed-Firm Commitment

Project Price
\$25,074,659



Benefits – Classroom/District

- Improved Indoor Air Quality
- Reduced Maintenance Time and Cost
- Standardization Across District
- Better Control Over all District-Owned Buildings
- Sustainability – Only 10% of Electricity coming from Utility





Benefits – Financial Estimates

- Year-One Energy Savings:
 - ~\$274,000
- Year-One O&M Savings:
 - ~\$250,000
- 20-Year Total Lifecycle Savings:
 - ~\$15,000,000

*Annual Utility escalation based on California Energy Commission recommendations for Prop-39 of 4%

*California Energy Commission recommends O&M savings equal 3% of project price. Schneider Electric uses a conservative 1% for O&M Savings

Project Schedule/Next Steps

Milestone	Date
Board Presentation (Discussion/Action Item)	3/22/2023
Mechanical and HVAC Scope	
Procurement	Spring/Summer 2023
Install	Fall 2023
Commissioning	Fall 2024
Energy Management	
Energy Management Program Onsite/Remote – Training/Support	Integration of new project Ongoing through August 2024

Thank You

Life Is On

Schneider
Electric