

# Sustainability and Security in DJUSD Bond Program

11.21.2019



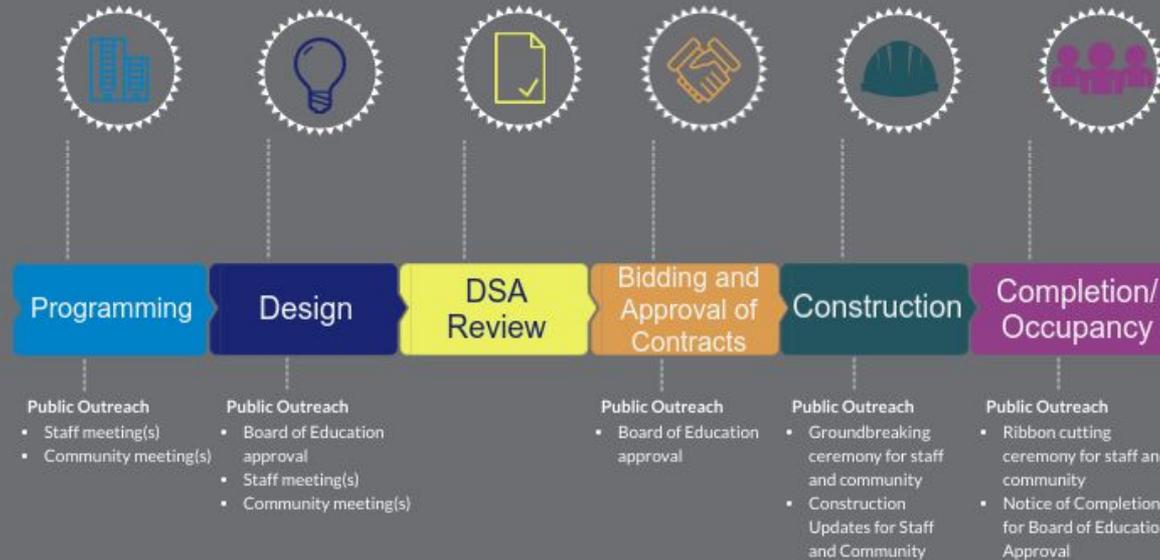
The logo for Cavalis Joint Unified is a circular emblem. The top arc contains the text "Cavalis Joint Unified" and the bottom arc contains "Building Our Future". The center of the emblem is divided into four quadrants by a cross. The top-left quadrant shows a puzzle piece, the top-right shows a padlock, the bottom-left shows a profile of a head with a brain and neural connections, and the bottom-right shows three stylized human figures. A semi-transparent grey horizontal bar is overlaid across the center of the logo, containing the title text.

# **Bond Program Design and Outreach**

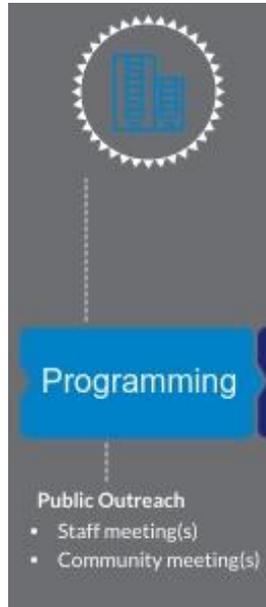


Davis Joint Unified School District

# Bond Program Project Timeline



# Facilities Project Process

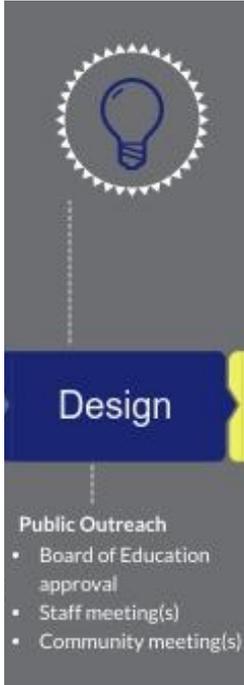


**Programming/Schematic Phase:** Determination of what spaces and general design are needed to meet building's intended purpose.

## **Outreach**

- Includes staff and community stakeholder input and budget estimates to ensure schematic design is consistent with project budget.
- Phase culminates with Board approval of schematic.

# Facilities Project Process



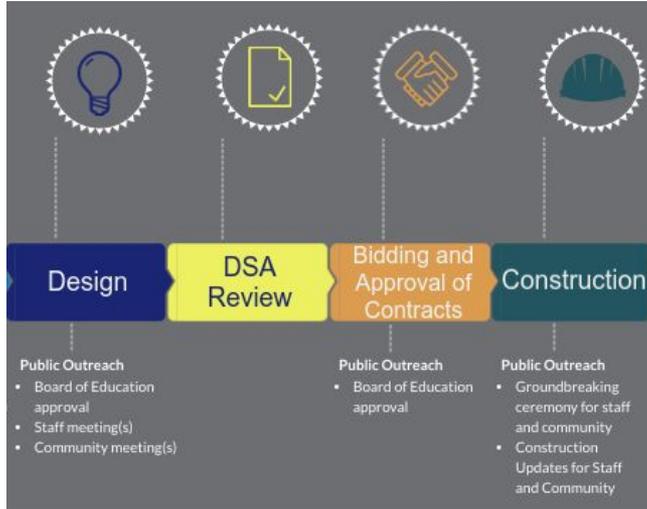
## Design Development Phase:

- Specific construction detail and space dimensions are added to schematic design.
- Will address feedback gathered where possible.
- Interior and exterior elevations, sustainable features, finishes, utility connections, and exact placement of building are determined.
- Detailed cost estimates are prepared and design adjusted accordingly.

## Outreach

Stakeholder input is primarily with consultants, experts, technical staff, and school staff. A community meeting to gather additional feedback will be held at 25-50% design development completion.

# Facilities Project Process



## Construction Document Phase:

Design development product is translated into very specific plans and specifications for review/approval by the Division of State Architect. Approved plans are “biddable” by general contractors.

**Construction Phase:** General Contractor builds the project per the DSA-approved set of Construction Documents with continuous inspection by a DSA Inspector of Record (IOR).

**Outreach:** Board approval of construction drawings and selection of contractor.



# Bond Project Outreach Improvements

- Updated project boards will be available for viewing as updates are available.
- Updates regarding important project decisions with rationale.
- Staff and Community meeting at 25-50% completion of design development phase.
- Webpage by project with Key Aspects of the Project, milestones and FAQs can be found at [www.djUSD.net/bondprogram](http://www.djUSD.net/bondprogram).
- DJUSD Bond Program e-newsletter.
- Additional feedback can be provided by the comment cards in the school office or sent to [FacilityPlanning@djUSD.net](mailto:FacilityPlanning@djUSD.net).



# Questions?





# Sustainability



# Sustainability Defined



Sustainability is the ability to meet the needs of the present without compromising the ability of future generations to meet their own needs. (United Nations World Commission on Environment and Development)





# FMP Sustainable Strategies

The Board-approved Facilities Master Plan (FMP)\* includes the following sustainability strategies for Bond projects:

- Use LEED Best Practices and/or pursue other certification for projects.
- Safe and Healthy Environments,
- Energy Efficiency
- Reduce Operating & Maintenance Costs
- Conserve Natural Resources & Reduce Environmental Impact and
- Curriculum Opportunities.

\*It is important to note the FMP does not include any capital cost associated with a significant exceeding Title 24 and CalGreen in the project cost estimates.



# Sustainability Policies - CA Building Codes



- *CALGreen* is the first-in-the-nation mandatory green building standards code. It established a comprehensive program of cost-effective reductions of greenhouse gases to 1990 levels by 2020.
- Title 24 is California's energy code is designed to reduce wasteful and unnecessary energy consumption in newly constructed and existing buildings.



## Other Sustainability Standards: City of Davis - Reach Code

The City of Davis requires all non-residential buildings to have:

- 10% compliance margin above the Title 24 baseline,
- Electric vehicle (EV) charging stations, and
- A photovoltaic (PV) system that offsets 80% of the building's energy demand.

# Board Policy 3510 - Green Schools Operations

The Governing Board believes everyone has a responsibility to be a steward of the environment and desires to integrate environmental accountability into all District programs and operations.

Some of what's happening in DJUSD:

- RISE (Recycling is Simply Elementary),
- Move to digital services and resources in order to reduce paper usage,
- Compostable SNS packaging and utensils, reusable plates and utensils at DSHS,
- Compliance with Healthy Schools Act, no herbicide use since 2018 and have recently move to a rodenticide that does not have secondary impact on other animals, and
- Focused curriculum on sustainability and climate change.



# DJUSD Board Policy 3511 - Energy and Water Management

The Governing Board recognizes the environmental and financial benefits that can be derived from conserving energy, water, and other natural resources, preparing for extreme weather and other natural events, and providing an environment that promotes the health and well-being of students and staff.

Some of what's happening in DJUSD:

- LED Light Retrofit Project,
- Energy Management,
- Replacement of approximately 400 HVAC units with more efficient models,
- Weather stations to limit greenspace watering, and
- Move to more energy efficient technology.



# Capital Cost Implications

- Costs to meet the City's Reach Code would be minimal if solar systems are acquired through a Power Purchase Agreement.
- Costs to achieve a specific LEED certification (Certified, Silver, Gold, Platinum) are project specific and cannot accurately be anticipated prior to each project's design phase; not budgeted in our current projects.
- Regional Zero Net Energy (ZNE) projects, in design or construction, indicate a capital cost increase of 30%-40% over Title 24/CalGreen.





# Sustainability Recommendations

- Continue to meet Title 24 and CalGreen code.
- Continue to pursue a Solar Master Plan, which does not require additional capital or general fund dollars.
- Plan for an additional 10% compliance margin above Title 24 (same as City Reach Code):
  - Contingent on the procurement of capital cost neutral Solar systems.
  - Include Electric Vehicle charging stations where possible, especially where solar carports are being built.
- Maximize additional cost neutral sustainable building features.



# Questions?





# Security

# DJUSD Board Policy 0450 - Comprehensive Safety Plan

The Governing Board recognizes that students and staff have the right to a safe and secure campus where they are free from physical and psychological harm. The Board is fully committed to maximizing school safety and to creating a positive learning environment that includes strategies for violence prevention and high expectations for student conduct, responsible behavior, and respect for others.



# DJUSD Board Policy 3515 - Campus Security

The Board of Education is committed to providing a school environment that promotes the safety of students, employees, and visitors to school grounds.

- Protection of district property, facilities, and equipment from vandalism and theft.
- Campus security procedures which are consistent with the goals and objectives of the District's comprehensive safety plan and site-level safety plans.



# DJUSD Security - FMP History



- In the midst of FMP planning, DJUSD launched a Safety Task Force which met throughout April 2018 and culminated in a report and recommendations for inclusion in the FMP.
  - Key card access, including the ability to lock or unlock doors remotely.
  - Install video surveillance.
  - Reduce points of access onto campus.
  - Install strategic fencing in order to restrict access to or cross traffic through campus.

The Board prioritized \$6 million for strategic fencing and \$3 million for electronic locks in order to meet the access control concerns noted in the FMP.



# Strategic Fencing and E-Lock Projects



## Project Objectives

- Follow the Bond Project Process.
- Improve access control (fencing and E-locks) for each site.
  - Ensure policies and procedures are updated.
- Allow for each site to be uniquely designed to match the architecture, physical layout, campus staffing and other procedural factors.

# Questions?

