

Capital Facilities Program Update

San Rafael City Schools

November 13, 2017

Dr. Daniel Zaich



Tonight's Report

- CEQA Review
- First Reading Ed Specs – TLHS & Madrone
- Solar Master Plan + Sustainability

Discussion and review of proposed environmental reviews under California Environmental Quality Act (CEQA) for upcoming facilities projects.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) REVIEWS

CEQA Reviews

Upcoming Projects Reviewed by Capital Facilities Team & Legal Counsel

- Preliminary Impact Assessment Matrix
- Review of proposed levels of environmental review

Recommendations for Approval on Tonight's Board Agenda

- Categorical Exemptions: Glenwood Multi-Purpose and Venetia Valley Renovation
- Focused Environmental Impact Report (EIR): Davidson, Laurel Dell, & Davidson Annex

Upcoming Recommendations for Action

- Categorical Exemptions: Terra Linda HS Master Plan & San Pedro Elementary Renovation

Terra Linda High School & Madrone

EDUCATION SPECIFICATIONS

SRCS Process

March:

Guiding
Principles
and District
wide Areas

April:
Teacher
Survey

HS CTE and
STEAM

April / May / June /
Sept / October

User Group
Meetings

September/October

Writing and Vetting

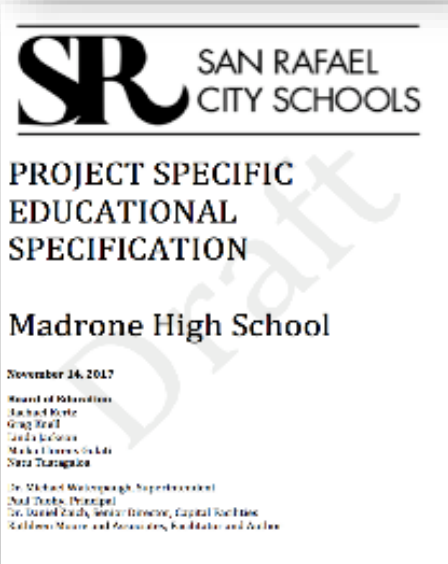
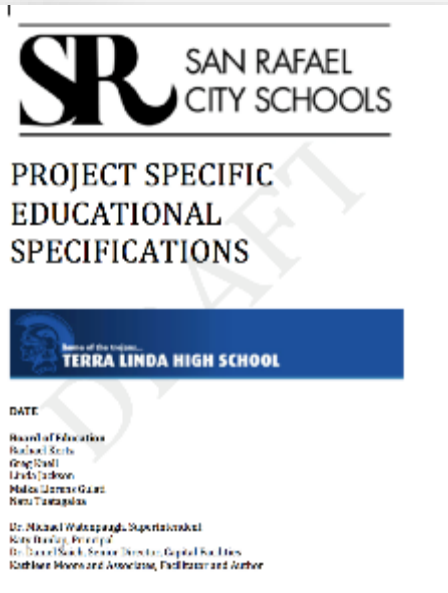
November/December

Board Adoption

Four Design Guiding Principals

- Create 21st century learning environments that are student and teacher friendly
- Design school with pleasing aesthetics that are secure
- Create schools to serve as neighborhood centers
- Provide high architectural quality

Major Components of the Educational Specification



- Vision
- Trends
- Curriculum and Anticipated Use
- Educational Process
- Orientation and Relationship
- Space Requirements
 - Instructional Technology
 - Display
 - Cabinetry/Storage
 - Utilities
 - Furniture and Equipment

Terra Linda Ed Spec Highlights



Innovation Hub: CTE and Science, Technology, Engineering, Art and Math

New Student Commons and Library

New Competitive Gym

Performing Arts

Instructional Technology

Teacher Collaboration Spaces

Sustainability and General Standards

Madrone Ed Spec Highlights

New Alternative Education School

Identity

Instructional Technology

3 Classrooms, Science Lab, Art Room

Commons and Outdoor Space

General Standards and Sustainability

HY Architects Image

Educational Specifications Next Steps

1. Review at December Board Meeting and Publish
2. Provide to CA Department of Education with Project Approval Requests
3. Provide to Architects
4. Complete San Rafael High School Project Specific Educational Specifications

Update on renewable energy planning and changing
regulatory environment

SOLAR MASTER PLAN

Solar Master Plan

- Sage Renewables has prepared a draft Investment Grade Feasibility Study
 - Full presentation at December Board Study Session

Optimal System Size	2,514 kWp
Evaluated Sites	13 Sites
Targeted Sites	9 Sites
Energy Consumption Offset	99%
Energy Cost Offset	81%
Financing Alternatives Studied	Cash, PPA, CREBs
Environmental Benefit, CO2 Offset, 25-year	24,000 tons

Solar Master Plan

- Immediate action needed to preserve current rate structure
 - District needs to file Interconnection Agreements with PG&E by Dec. 26, 2017
 - CPUC action allows grandfathering of current “time of use” periods for 10 years
 - Does not commit District to build projects
 - Have 2 years to complete projects

The current time of use periods are from noon to 6 p.m. when the value of the electricity produced by solar arrays is most valuable (On-Peak). The new time of use periods will shift the On-Peak hours to 3:00 p.m. to 9:00 p.m. - reducing the overall value of the electricity produced by solar by approximately 20-40%.

Solar Master Plan

- District staff has received proposal to prepare and file Interconnection Agreements
 - From Sage Renewables
 - Capital Facilities staff will initiate process
 - Contract Ratification by the Board, December meeting

Task	Per Site, Fixed Fee
Task 1 Interconnection Application, per site	\$1,000
Additional NEMA fees, per meter	\$300
Total number of sites	9
Total additional NEMA meters	2
Total Fees	\$9,600

District-wide Sustainability Committee
Opportunity for Energy Manager, Climate Corps Fellow

SUSTAINABILITY

Sustainability

- District Sustainability Committee Meeting
 - Tuesday, November 14, 2017
 - Student-lead committee to complement work at both High Schools
 - Focus on energy efficiency, water efficiency, waste reduction, transportation and education
 - Goal of creating a District-wide Sustainability Plan

Prop 39 Assistance



An Energy Manager Fellow at SRCS



Achieving Energy Savings Goals

- Through existing Prop 39 Funds, SRCS has capacity to hire an energy manager position.
- This position will facilitate energy and cost savings measures for the district.
- Strategic Energy Innovations (SEI) will provide a turnkey staffing solution for this energy manager role, supervising this person and facilitating their scope of work with the district.
- Through the energy manager role, SEI will engage all schools in energy savings competitions, saving money and energy district-wide.

Success Story



District Wide Impact, Energy and \$ Savings



Climate Corps Bay Area

Projects

Project 1: Energize San Carlos Schools

Program Goals: Promote ecoliteracy and increase environmental stewardship and conservation behaviors.

- Methods:**
- Outreach to staff and parents
 - Site-specific Sustainability Champions
 - Energy and Waste Audits
 - Monthly energy report
 - Waste infrastructure improvements
 - In-class and after school activities
 - Student-lead campaigns



Project 2: SAFE ROUTES TO SCHOOL

Program Goals: Encourage and support safe active and public transportation to school.

- Methods:**
- Pedestrian Flag X-ing program
 - Walk/Bike to School Days
 - Route Maps
 - Bike Rodeos
 - Public Outreach
 - Securing grant funding
 - Collaboration with City of San Carlos



Impact

106	conservation-focused activities	3000+	community members reached
2000	students engaged in-class	4	new grant-funded bike racks
11%	reduction in electricity use district-wide by the end of the 15-16 school year compared to 3-year baselines	2	new pedestrian flag X-ing locations

Lessons Learned: Program Engagement



Understandable and Relatable



Actionable and Specific



Interactive



Flexible and Adaptable

Methods for successful in-class and after school activities, site-specific champion roles and responsibilities, outreach and communications, educational resources, and tabling an event.

Acknowledgements:

These projects would not have been completed without the generous support from SCSD's Wellness Director Mindy Hill, Sustainability Champions, principals, teachers, staff, administrators, parents, and students. A special thanks to Sophia Zug, Brendan Pipkin, Jason Cross and the whole SEI team.



Sarah Schwartz

After graduating from New York University with a B.A. in Metropolitan Studies in the spring of 2015, Sarah Schwartz is grateful to have had such an amazing experience as a CCBA fellow, and is looking for opportunities to explore the nexus between city planning, data visualization, and sustainability.



QUESTIONS?