



SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

# ARCHITECTURAL SERVICES POOL

ARCHITECTURE ENGINEERING PLANNING INTERIORS SUSTAINABILITY GRAPHICS ACCESS COMPLIANCE

January 14, 2020

LIONAKIS



Laura Knauss

Principal-in-Charge



Brian Bell

Project Manager



Matthew Harris

Project Architect



Aaron Buehring

Director of Educational  
Environments



Elena Nansen

Sustainability Specialist

## Local Project Team

FOUNDED IN  
**1909**

**190+**  
EMPLOYEES

**8**  
SERVICES

- Architecture
- Engineering
- Planning
- Interiors
- Graphic design
- Sustainability
- Access Compliance
- Laboratory Design

**5**  
CORE MARKETS

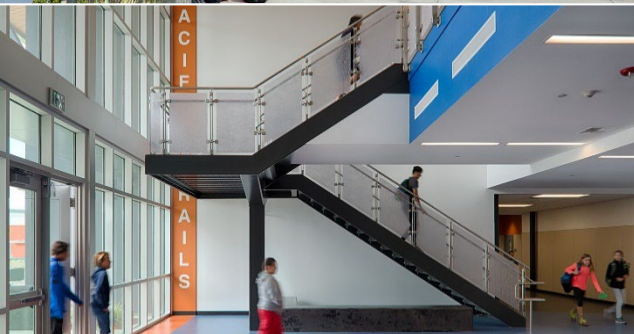
- Education
- Healthcare
- Commercial
- Civic
- Science & Technology

**5**  
OFFICES

- Sacramento
- Oakland
- San Jose
- Newport Beach
- Honolulu

**80+**  
LEED Accredited  
Individuals on Staff



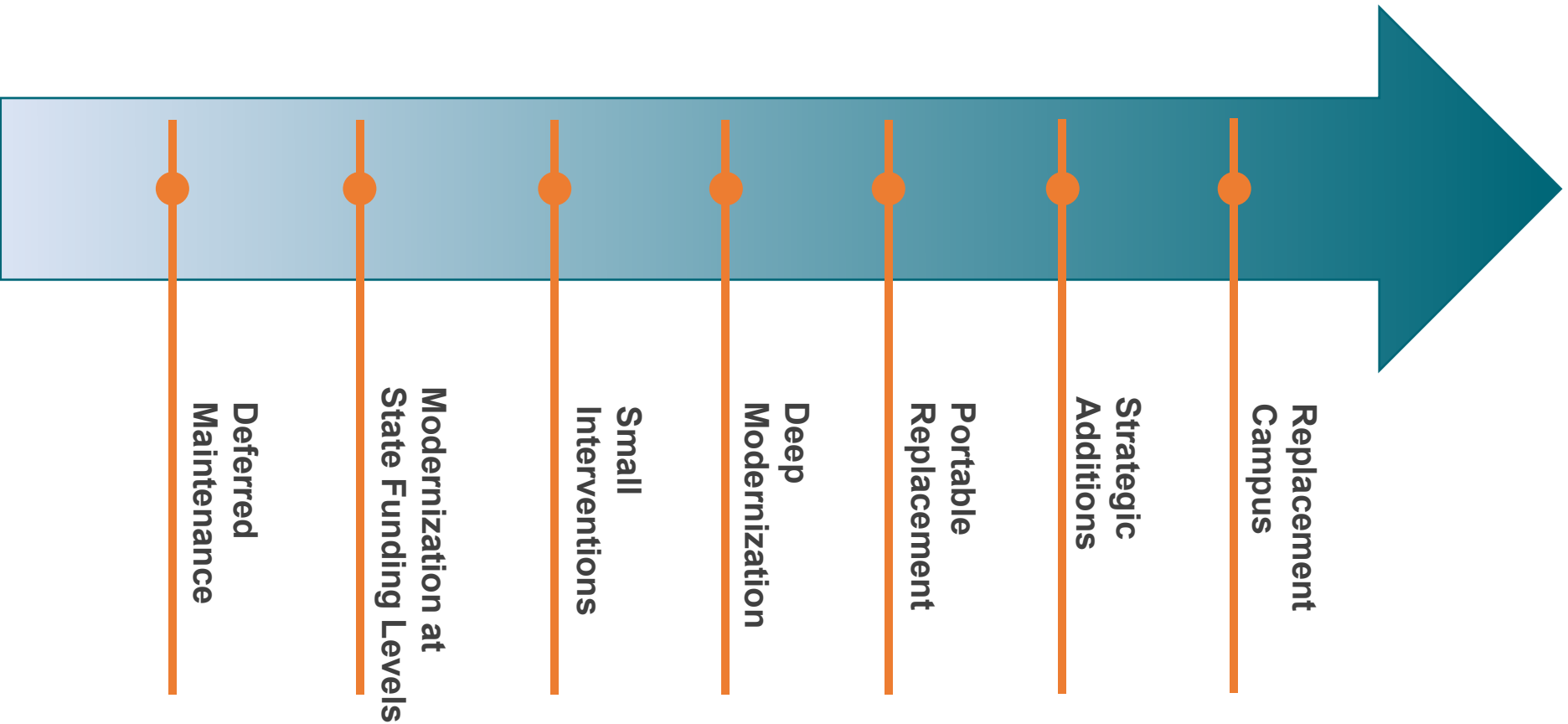


K-12 Experience



# Modernization Spectrum

*From Basic to Transformation*



# Finding the balance...



What are the options for construction type?

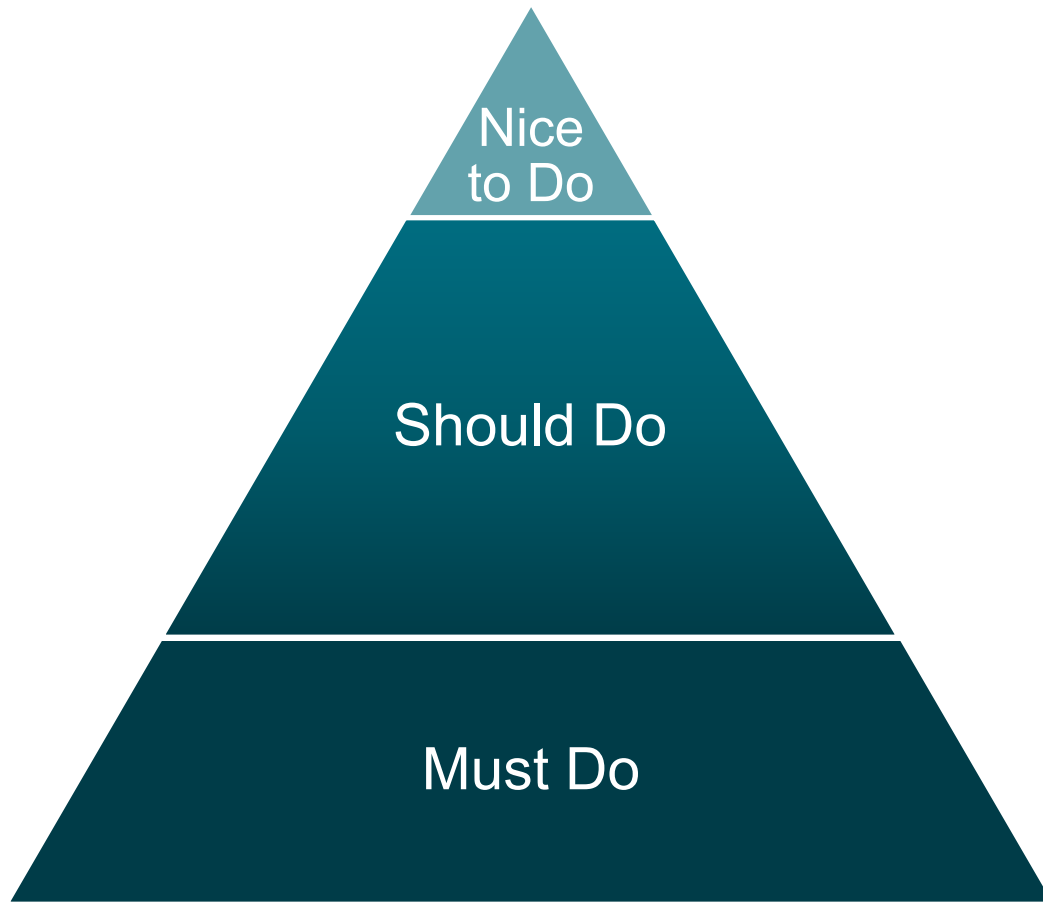
How do we prioritize new construction and modernization?

**BETWEEN MUST DO, SHOULD DO AND NICE TO DO**





## Stakeholder Engagement



Confirming Priorities





# KIT CARSON INTERNATIONAL BACCALAUREATE ACADEMY

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT



Relocated Administration | Kit Carson International Baccalaureate Academy







Strategic Addition | Kit Carson International Baccalaureate Academy





Outdoor Classroom | Kit Carson International Baccalaureate Academy

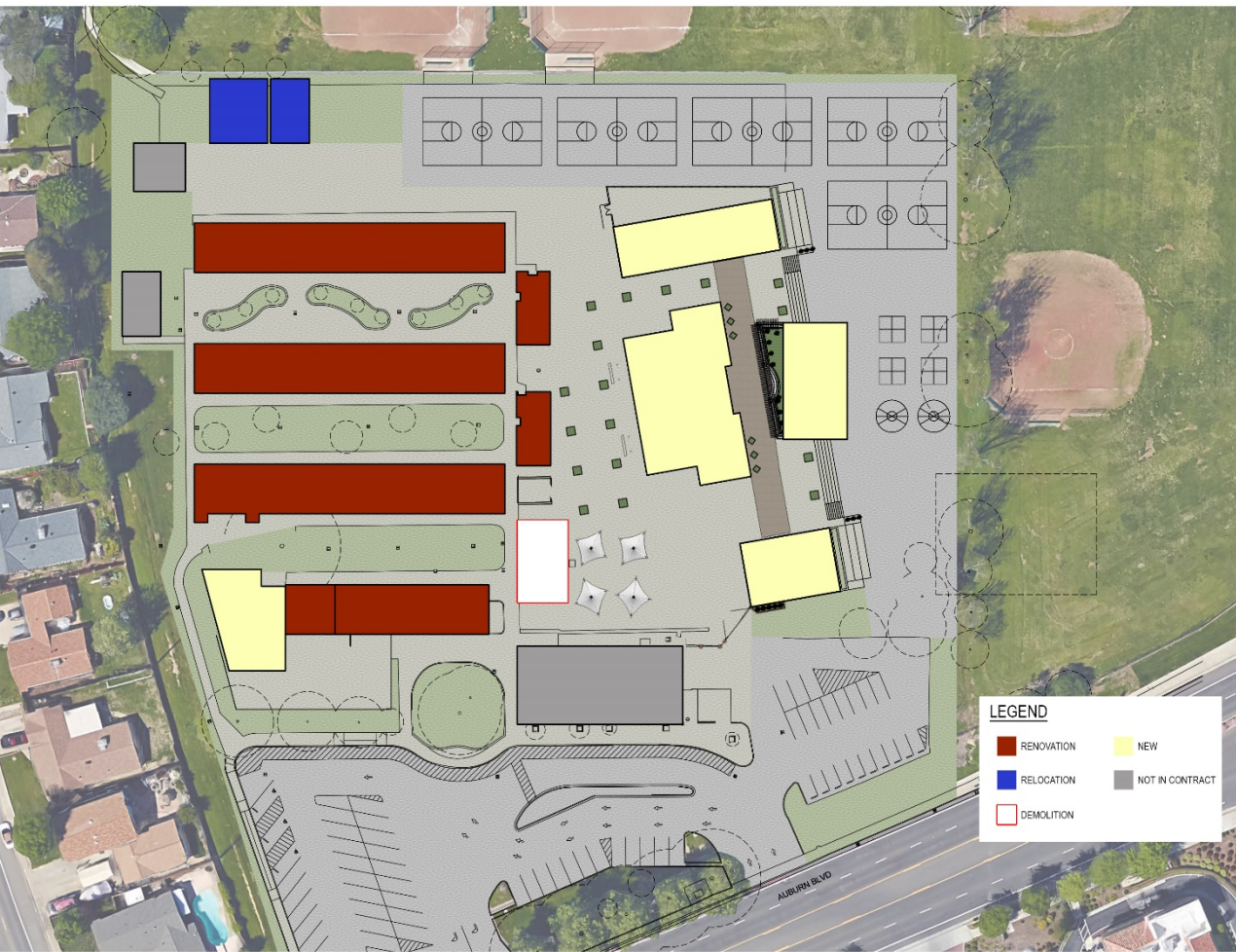






**SYLVAN MIDDLE SCHOOL**  
SAN JUAN UNIFIED SCHOOL DISTRICT





Site Plan | Sylvan Middle School

Before



New Front Door | Sylvan Middle School





Modernized Classrooms | Sylvan Middle School









Maker Spaces | Sylvan Middle School



MIRA LOMA HIGH SCHOOL SCIENCE ADDITION  
SAN JUAN UNIFIED SCHOOL DISTRICT





Strategic Addition | Mira Loma High School Science Addition



NextGen Learning Environments | Mira Loma High School Science Addition



# VISUALIZATION IN 3D: Virtual Reality (VR) & Quick Response (QR) Codes

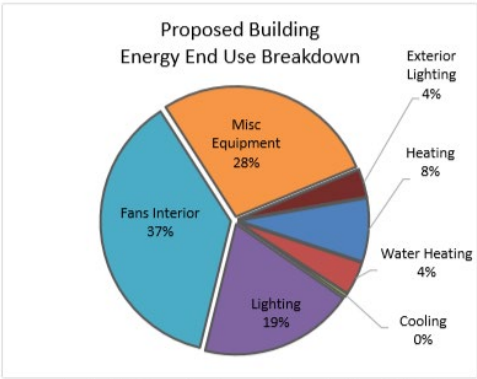




CLAIRE LILIENTHAL K-8 SCHOOL  
SAN FRANCISCO USD



ANALYSIS AND RESULTS



The team modeled the building in Energy Pro. Daylighting was modeled using IESve with the Radiance plug-in. The daylighting results were integrated into the EPro simulation by adjusting the annual lighting schedule.

The team used a "traditional" school schedule, which assumes 180 instruction days per year, 1 week spring and fall vacations, and Christmas and summer vacations.

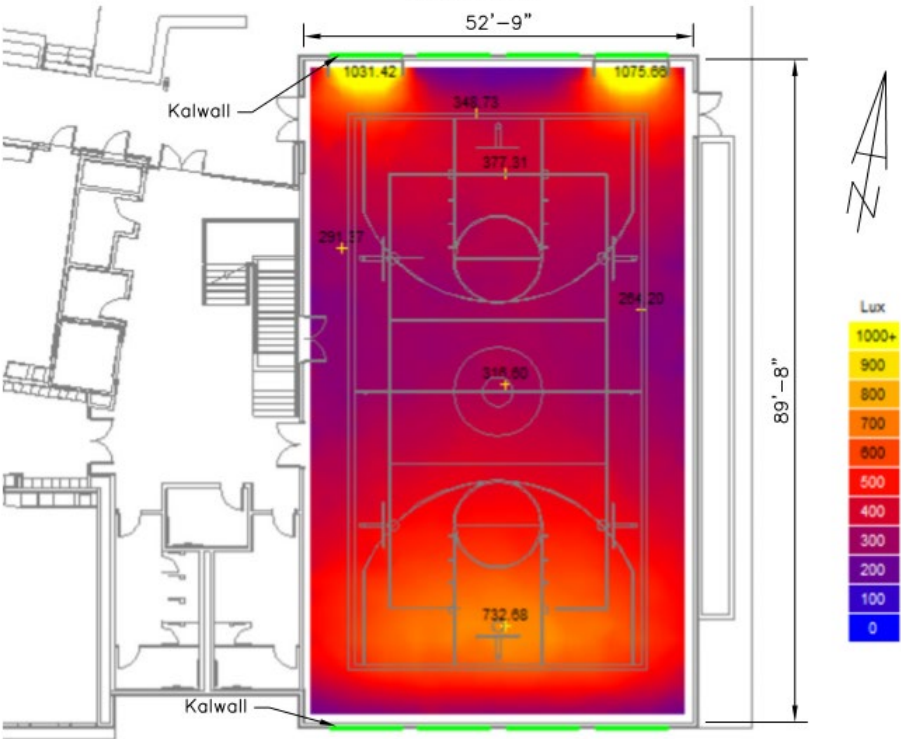
The Energy Pro simulation predicts an annual energy consumption of 82,476 kWh. This equates to a EUI of 13.4 kbtuh/sf-yr.

The energy simulation shows power is used according to the graph at left.

The graph at left shows the total building energy use, EUI, and the campus solar potential. It shows the building has done significantly better than its target energy use, and that the expected energy consumption is slightly lower than the generation potential confirming this project has been designed to achieve ZNE.



DAYLIGHT MODEL RESULTS  
Illuminance

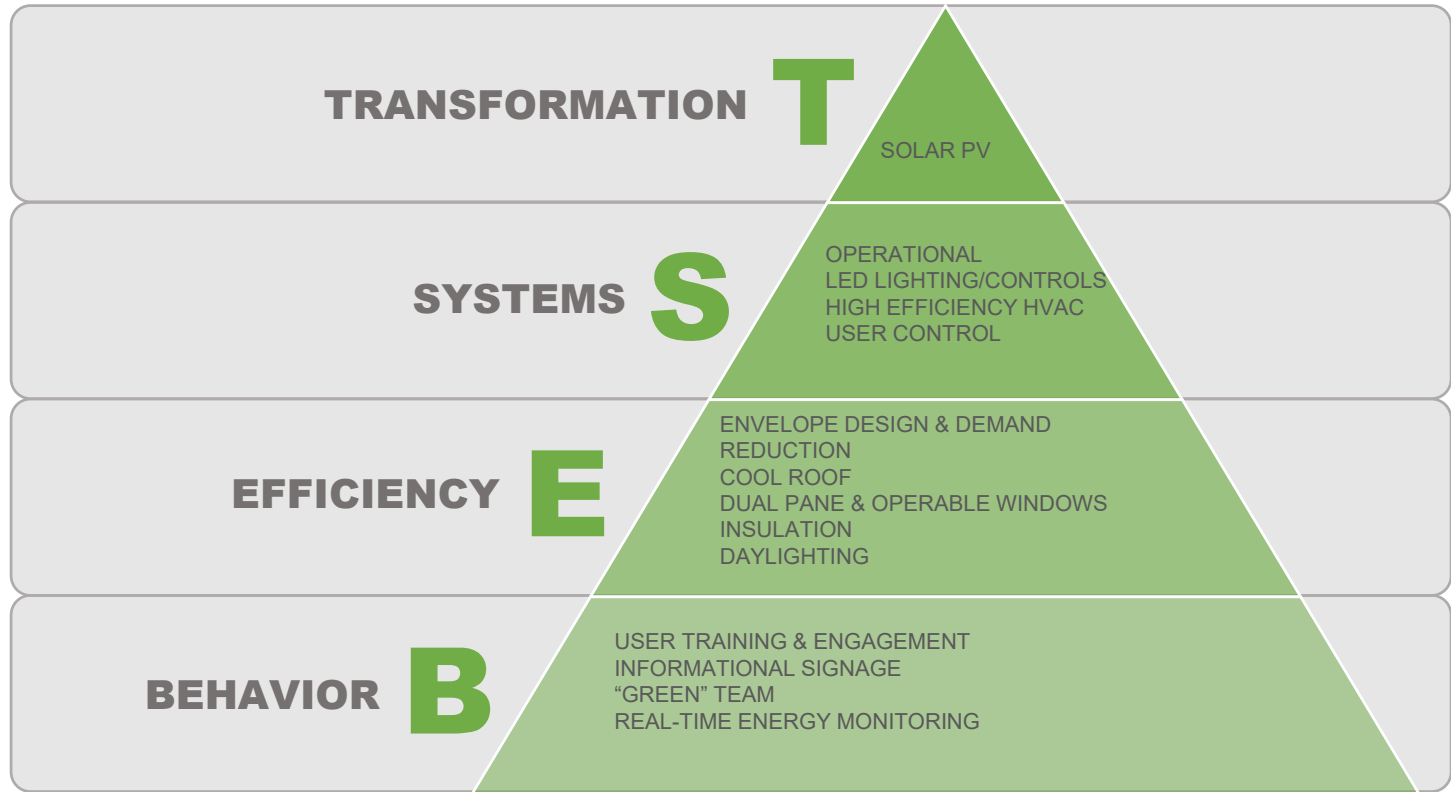


Radiance Illuminance for June 21st at 12:00 pm during sunny sky  
10.76 Lux = 1 fc. Task height is 3'-0"  
Average Value is 39.1 fc (421 lux)



New Multi-Purpose Space | Claire Lilienthal Elementary School







## NATURAL DAYLIGHTING

Ways we achieved natural daylight in this building:



**Tubular skylights** bring in daylight and diffuse it throughout the second floor hallway and gym.



White ceiling tiles help reflect natural light deeper into the classrooms.



Special glazed windows are used in the gym which evenly disperse the light throughout the space.

### DID YOU KNOW?

Natural Daylight has a number of advantages, including improving occupant's productivity, increasing the connection to the outdoors, improving health, increasing energy savings and enhancing quality of light.



## SITE



The implementation of **bio-swales** mimics the site's natural hydrology which helps the water filter through the soil below, returning to the water table naturally.



**Permeable pavement** is used throughout the hardscape. This pavement lets water infiltrate through to the soil below the pavement.

Doing this reduces the amount of chemicals picked up by the water before it goes back into the water system.



By using **native and drought tolerant** plants, we are able to reduce the site's potable water use.



**Reclaimed water:** The building is set to hook onto the city's reclaimed water. This "purple pipe" water can be used to replace potable water in some building uses.

### DID YOU KNOW?

Landscape irrigation practices consume a large quantity of potable water, sometimes accounting for **30%-70% of the water consumed** in nonagricultural uses.





Libraries & Innovation Labs | Claire Lilienthal Elementary School





Innovation Labs | Claire Lilienthal Elementary School





Interiors & Furnishings | Claire Lilienthal K-8 School

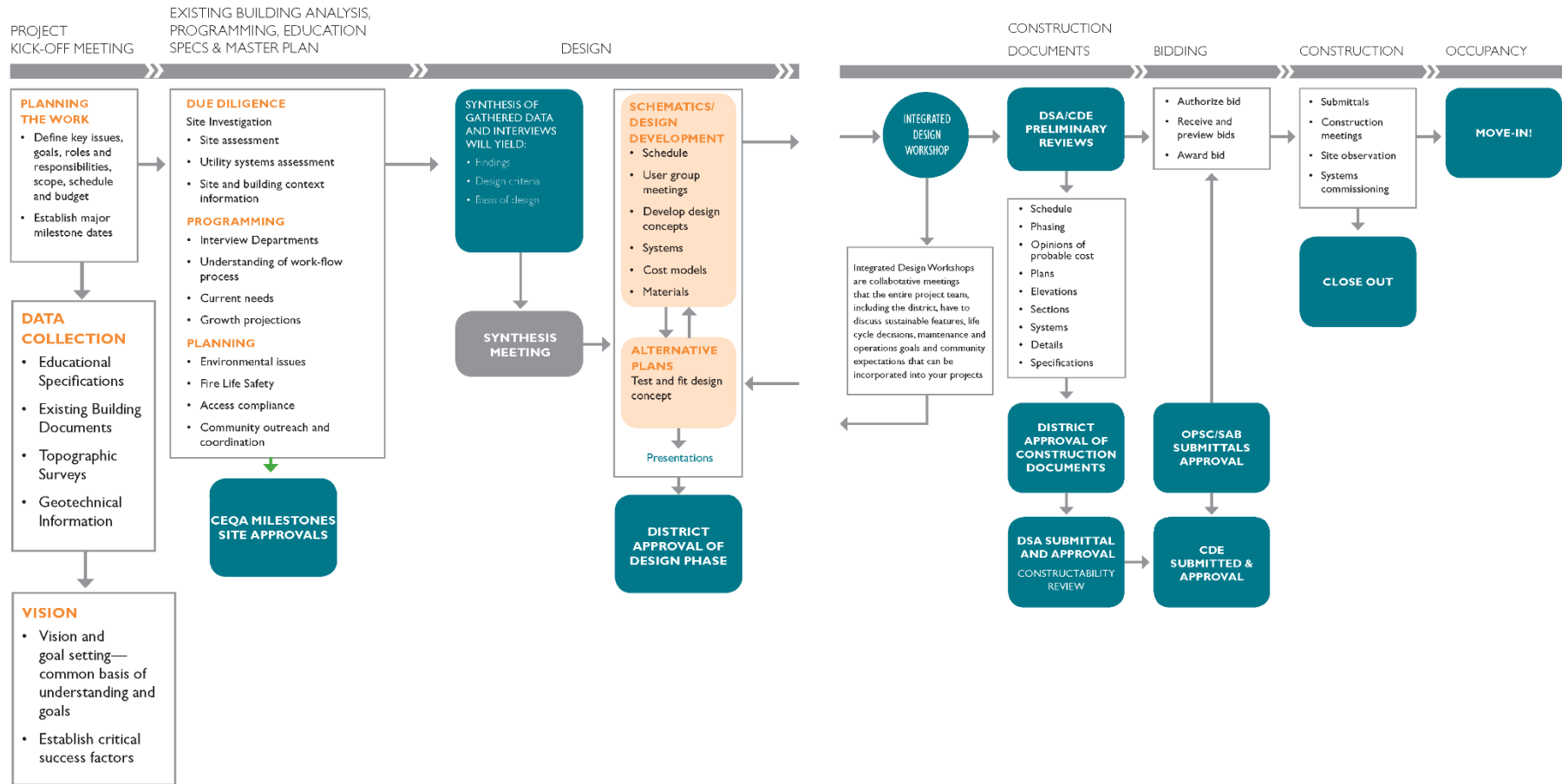




# FRANKLIN HIGH SCHOOL CAREER TECHNICAL EDUCATION

STOCKTON UNIFIED SCHOOL DISTRICT





# Work Plan & Schedule



Black Box Theater | Franklin High School





Scene Shop, Make-up Lab, Costume Lab | Franklin High School





SHASTA ELEMENTARY SCHOOL CHICO UNIFIED SCHOOL DISTRICT

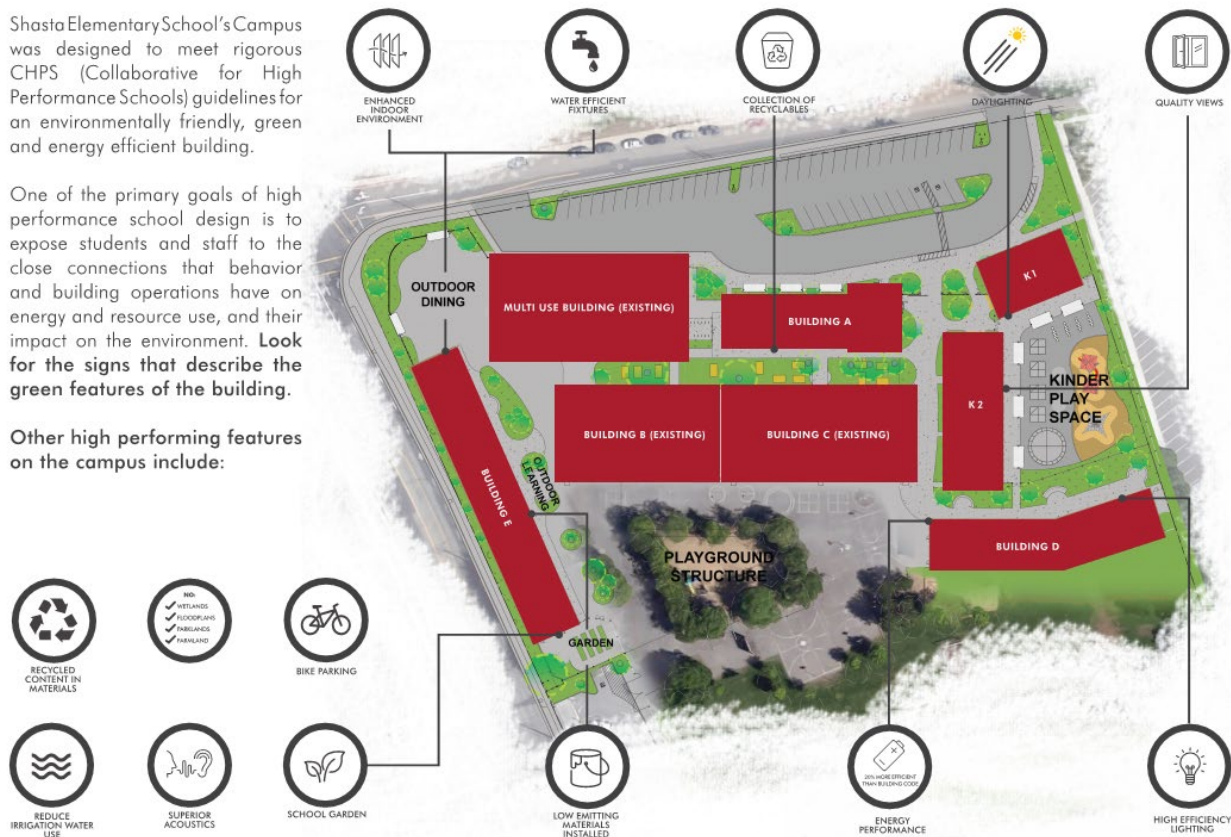


# CHPS DIRECTORY

Shasta Elementary School's Campus was designed to meet rigorous CHPS (Collaborative for High Performance Schools) guidelines for an environmentally friendly, green and energy efficient building.

One of the primary goals of high performance school design is to expose students and staff to the close connections that behavior and building operations have on energy and resource use, and their impact on the environment. **Look for the signs that describe the green features of the building.**

Other high performing features on the campus include:







New Kindergarten Classrooms | Shasta Elementary School





“The study showed that students that attended daylit schools *outperformed* the students in non-daylit schools 5 to 14%.”

*Daylighting in Schools: Improving Student Performance and Health at a Price Schools Can Afford*

- With reference to Heschong Mahone Study and a similar study of schools in North Carolina

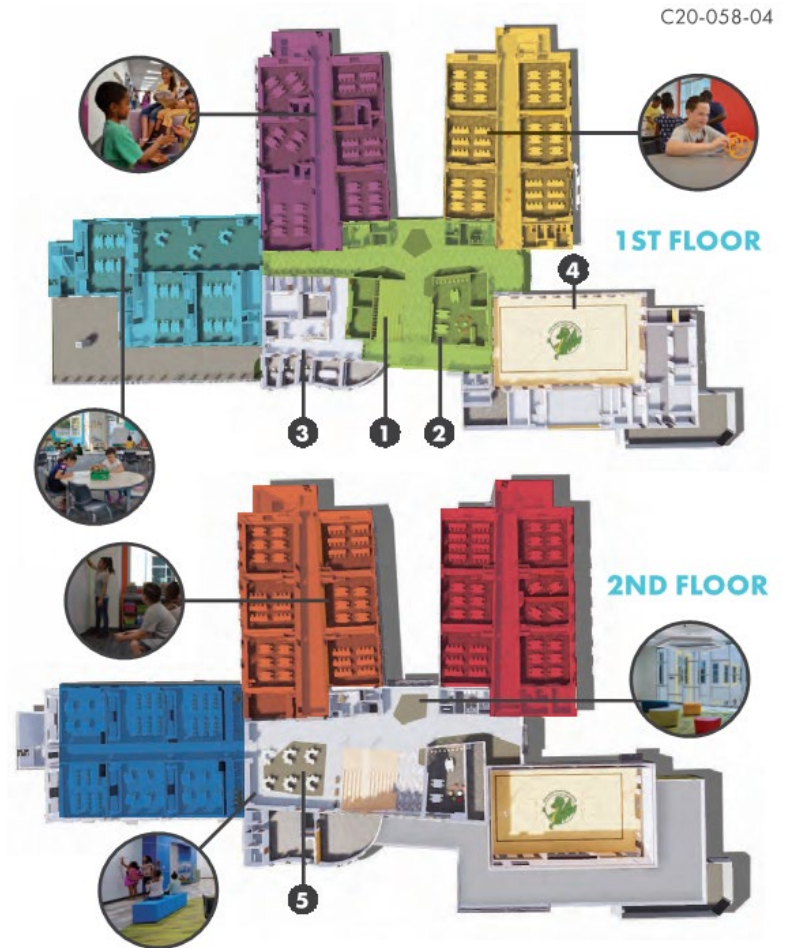
Chico Unified School District: District Specifications / Standards Matrix and Comparison								
CUSD Specification Number	UPDATE 3/1/18	Section Title	Current CUSD Product Material / District Standard	CUSD Comments / Standards	Lionakis Specification Number	Section Title	Current Lionakis Product Material/ Manufacturer	Comments / Proposed Modifications / Sustainability Features
DIVISION 09 - FINISHES								
09 30 13		Ceramic Tile Work	Dal-Tile, American Olean 4.25 x 4.25 semi-gloss, epoxy grout -	STD - toilet rooms - wainscot w/ accent pattern per Dist Std Details	09 30 00	Tiling	Daltile, US Ceramics, American Olean	
09 51 00		Acoustical Ceilings	Armstrong - Cortega Tectum "v" line - NRC -50 -60		09 51 13	Acoustical Tile Ceilings	USG, Armstrong, Certainteed	12/4 - forward tech cut sheets for Certainteed Performa Symphony ceiling tile; cheaper and higher NRC rating/better acoustical performance
09 52 00	3/1/2018	Suspended Acoustical Ceilings	USG, Armstrong, Chicago Mettalic		09 53 00	Suspended Acoustical Ceilings	USG, Armstrong, Chicago Mettalic	Lionakis spec section has current DSA IR and code references. Installation requirements are taken directly from DSA IR 25-2.13
					09 54 26	Linear Metal Ceiling Systems	Ceilings Plus, Hunter-Douglas, Rulon	Vestibule / Admin only - acoustical insulation
					09 64 66	Wood Flooring	Junkers Solid Wood	
09 65 16		Resilient Flooring	Armstrong (VCT,Sheet), Burke/Flexco/Roppe (Rubber)		09 65 00	Resilient Flooring	Armstrong, Forbo, Tarkett, Mannington	Lionakis spec section combines all resilient flooring and base products into one section and eliminates the requirement for ASTM F1869 calcium chloride testing
09 65 43	3/1/2018	Linoleum Floor Coverings	Armstrong (DLW, Marmorette), Forbo	STD - limit linoleum to MPPRs, SDC CRs - not for wet locations. Paint game striping				
				STD - sports flooring use Tarkett Omnisports Compact (2mm)	09 65 66	Resilient Athletic Flooring	Use Tarkett Omnisports 2mm flooring	
09 67 00		Decorative Urethane Cement Flooring System	Sika Industrial Flooring System					
09 67 23	3/1/2018	Resinous Flooring	Sika floor Comfort floor		09 67 23	Resinous Flooring	Sika, Dex-o-Tex, General Polymers	
09 68 00		Carpet	Tandus Centiva (C&A FlexAire, abrasive action II walk-off) 24x24 tiles or Mohawk Group ("First One Up") 24x24 tiles	STD - All carpet Tandus Powerbond roll goods or Mohawk Unibond Plus Bloc System. Provide walk-off mat at all exterior door locations. Confirm tile vs roll; conflicting info	09 68 13	Tile Carpet	Tandus, Shaw, Milliken	12/4 - Between Mohawk and Tandus; interiors to review finish/color in roll vs tile; CHPS recycle points
					09 77 23	Fabric Wrapped Panels	Micore 300, Homaste - 4'w x 1/2" thick panels	
					09 77 23	Fabric Wrapped Panels	MDC Wall Coverings, Len-Tex, Kampala	LL - identify # of walls at offices, conf rooms, etc. for tack board; detail to adhere to wall - not hang with clips
					09 81 00	Acoustical Insulation	Knauf Ecobatt, Owens-Corning, Johns Manville Thermafiber	Included in CUSD insulation spec





# DYER-KELLY ELEMENTARY SCHOOL

SAN JUAN UNIFIED SCHOOL DISTRICT





# RELATIONSHIP WITH DSA

All Files > 04-112835

**04-112835**

Files and Folders

Canyon Crest Academy

**04-112835\_AE\_20149**  
Updated Sep 17, 2013 by Alyssa Jose 4 1 +1

**04-112835\_CCD Submission**  
Created Jun 10, 2013 by Laura Vioral 0

**04-112835\_Contractor\_20090**  
Updated Sep 17, 2013 by Dana Henry 2 1 +2



**DSA** **6-A**

## ARCHITECT/ENGINEER VERIFIED REPORT

This form shall be completed by the Architect or Structural Engineer in General Responsible Charge and those architects or engineers with delegated responsibility for observations of construction, as reported on the Application for Approval of Plans and Specifications (form DSA 1), in accordance with California Code of Regulations, Title 24, Part 1, Sections 4-336 or 4-240.

School District/Owner: Roseville Joint Union High School District DSA File #: 31 - H3  
Project Name/School: Oakmont High School - Life Skills DSA App. #: 02 - 11  
Date of Report: 09-17-13 Number of Attached Pages: 2 DSA 152 Card #(s): 1  
(If none, enter zero.)

Note that DSA approved construction documents, referred to below, are those portions of the construction documents, duly approved by the DSA, that contain information related to and affecting the Structural Safety, Fire/Life Safety, and Accessibility portions of the project. List all inspection card numbers for which this verified report applies.

**COMPLETE SECTIONS 1 & 2 AND PROVIDE ALL REQUIRED DOCUMENTATION**

**1. REASON FOR FILING THIS VERIFIED REPORT (Check applicable box.)**

☒ **Interim Verified Report:** List affected form DSA 152 Inspection Card Section #(s): 2, 3, & 4

☐ **Final Verified Report:** Construction of all work, shown in the DSA approved construction documents, is complete. The Design Professional in Responsible Charge shall complete the following:

☐ **Deferred Submittals:** One of the following must be checked in order to file a Final Verified Report

☐ This project does not require deferred submittals

☐ All deferred submittals are approved by the DSA.

☐ **Termination of services** prior to completion of all work shown in the DSA approved construction documents. The General Responsible Charge, and the professional whose services are terminated, as indicated below, shall sign this report and that all statements are true.

☐ Arch/Eng. in General Responsible Charge ☐ Structural Engineer ☐ Mechanical Engineer ☐ Electrical Engineer

☐ **Construction work suspended** for more than one month. Provide date of last construction activity:

☐ **DSA Request Dated:**

**2. CONSTRUCTION CHANGES AS OF THE DATE OF THIS REPORT (Check applicable box.)**

☐ There are no changes to the DSA approved construction documents.

☒ All changes to the DSA approved construction documents have been approved by the DSA.

☐ There are changes to the DSA approved construction documents that have not been approved by the DSA. (Briefly list the changes. Attach additional pages if necessary.)

I certify that, based on my own personal knowledge (as defined in California Code of Regulations, Title 24, Part 1, Sections 4-336 or 4-338, as that, except as marked in Section 2, as of the date of this report, the work has been performed and materials have been used and in every material respect, in compliance with the DSA approved construction documents, I declare under penalty of perjury that I prepared this report and that all statements are true.

**Design Professional in General Responsible Charge: (Signature)** *[Signature]*  
Print Name: Laura Knauss-Docoy CA Registration No. C-20142 Date: 09/17/13

**Architect with delegated responsibility: (Signature)** *[Signature]*  
Print Name: \_\_\_\_\_ CA Registration No. \_\_\_\_\_ Date: \_\_\_\_\_

**Structural Engineer with delegated responsibility: (Signature)** *[Signature]*  
Print Name: Kerry Volker CA Registration No. S-3737 Date: 9/17/13

**Mechanical Engineer with delegated responsibility: (Signature)** \_\_\_\_\_  
Print Name: \_\_\_\_\_ CA Registration No. \_\_\_\_\_ Date: \_\_\_\_\_

**Electrical Engineer with delegated responsibility: (Signature)** \_\_\_\_\_  
Print Name: \_\_\_\_\_ CA Registration No. \_\_\_\_\_ Date: \_\_\_\_\_

**Submit completed form to the DSA Regional Office with construction oversight authority for the project.**

☐ DSA OAKLAND 1515 Clay Street, Suite 1201 Oakland, CA 94612 ☒ DSA SACRAMENTO 1102 Q Street, Suite 5200 Sacramento, CA 95811 ☐ DSA LOS ANGELES 700 N. Alameda Street, Suite 5-500 Los Angeles, CA 90012 ☐ DSA SAN DIEGO 10020 Via Frontera Rd., Suite 1000 San Diego, CA 92127

Revised 03/22/13  
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA

**LIONAKIS** **MEETING MINUTES**

**Bidwell Junior High School**  
014229  
**DSA Pre-Application Meeting**

Meeting Number: 01  
Meeting Date: September 10<sup>th</sup> 2014

Attendees: Julie Kistler, CUSD  
Lalanya Rothenberger, CUSD  
Sal Dutta, DSA  
Tim Powell, DSA  
Zhengchang Vong, DSA  
Brian Bell, Lionakis  
Lucas Jolly, Lionakis  
Jeffrey Yip, Lionakis

CC:

Item No.	Action	Subject/Comment
		<b>Bidwell Junior High School modernization</b>
		<ul style="list-style-type: none"> <li>Budget - \$4.2 mil construction cost</li> <li>Schedule:                             <ul style="list-style-type: none"> <li>DSA submittal by end of November 2014</li> <li>DSA back check and approval end of March 2015</li> <li>Start of Construction June 1<sup>st</sup> 2015</li> </ul> </li> </ul>
1.1		<b>Campus Program Overview</b> Lionakis presented the overall scope of work at the Bidwell Junior High School campus: <ul style="list-style-type: none"> <li>Complete renovation of Administrative Space, including offices, lobby, and student/staff restrooms</li> <li>Modernized multi-purpose room with new finishes, in-wall tables, technology, etc.</li> <li>Modernized library with new space for resource room, new finishes, technology and mechanical upgrades</li> <li>Modernized Gymnasium with new HVAC, electrical upgrade and new finishes</li> <li>Parking and drop-off lane improvements at campus entry</li> </ul>
1.2	Lionakis / DSA	<b>Structural Review</b> The topics of structural concern were: <ul style="list-style-type: none"> <li>Admin structure would maintain the same lines of lateral resistance.</li> <li>Collector modifications may be required based on extend of shear wall modifications.</li> <li>Existing diagonally sheathed roof diaphragm capacity may be determined from SDPWS values.</li> <li>Additional interior square footage at administration is okay since existing roof diaphragm is unchanged and the wall being moved is not a shear wall.</li> </ul>

MBRII - ARCHITECTURAL
MBRII - TELECOM

add ceiling banner support per owner's request:

frame wall for a 48" wide wall diffuser - per 4/24 J. pirkl email

assistive listening system - specify portable system

Identify this accessible element

### 22. Two-Way Communications System:

CBC 1007.8.n reviewing Power Plans E-122A, E-112C, E-123A, E-123C and associated Fire Alarm plans, I do not see a two-way communications system at each elevator lobby on the 2nd and 3rd floors. A two-way communication system is required at the elevator landing on each accessible floor that is one or more stories above or below the story of exit discharge. This system shall provide communication between each required location and a central control point location approved by the fire department. This system is not intended for use by firefighters. It is intended for use by persons with a disability who cannot use the exit stairs and must be evacuated by use of an elevator.

### GENERAL NOTES

1. ARCHITECTURAL DIMENSIONS ARE TO FACE OF STUDY OR CONTIGUOUS OF COLUMN GRIDS UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
2. LOCATIONS SHOWN ARE APPROXIMATE. WALL, DOOR AND WINDOW DIMENSIONS ARE APPROXIMATE.
3. ALL INTERIOR WALLS SHALL BE FINISHED TO CORNER. WALL LENGTHS SHALL BE AS SHOWN.
4. FLOOR FINISHES SHOWN ARE APPROXIMATE.
5. ROOMS WITH FLOOR FINISHES SHALL BE FINISHED TO CORNER.
6. SEE SHEET A-112A FOR FLOOR FINISHES AND FLOOR FINISHES TO BE USED.
7. SEE SHEET A-112A FOR FLOOR FINISHES AND FLOOR FINISHES TO BE USED.
8. SEE SHEET A-112A FOR FLOOR FINISHES AND FLOOR FINISHES TO BE USED.
9. SEE SHEET A-112A FOR FLOOR FINISHES AND FLOOR FINISHES TO BE USED.
10. SEE SHEET A-112A FOR FLOOR FINISHES AND FLOOR FINISHES TO BE USED.

### FLOOR PLAN LEGEND

NOTE: SEE SHEET A-112A FOR ADDITIONAL SYMBOLS AND ABBREVIATIONS.

- ROOM NAME
- ROOM NUMBER WITH ROOM NAME & ABBREVIATION
- DOOR, SEE SCHEDULE
- FLOOR OPENING, SEE SCHEDULE
- WINDOW OR GLASS, SEE SCHEDULE
- WINDOW UP/LOWER, SEE SCHEDULE
- FIRE EXTINGUISHER CABINET, SEE DETAIL
- AUTOMATIC EXTERNAL DEFIBRILLATOR
- WALL MOUNTED SMOKE ACTUATOR
- DOOR ACTUATOR MOUNTED TO FLOOR
- 7" SQUARE BOLLARD POST FOR DOOR ACTUATOR AND CONSTRUCTION ISSUE
- INSTRUCTORS DESK, SEE SPEC
- 27"X36" CLEAR ACCESSIBLE SPACE AT ALL INSTRUCTORS DESK
- NEAREST OBSTRUCTION
- 48" CLEAR ACCESSIBLE TURNING SPACE

Subject	Page	Lock	Status	Checkmark	Author	Date	Color	Comments	Depth	Priority	Primary Location	Assigned To	Primary Location
Re: IDC-Callout	Page A...				Jason Ellis	5/15/20...		pulls coordinated					
Callout	Page A...				michael.walsh	4/9/20...		what is this dimensioning to?					
Callout	Page A...				michael.walsh	4/9/20...		we don't seem to be showing solid surface and MDF seems to be called out twice.					
Callout	Page A...				Lucas jolly	4/22/20...		Coord extents of depressed slab with structural and this detail.					
Rectangle	Page A...		Completed set...		Lucas jolly	4/2/20...		Hide duct. Coord louver height with mech.					
Callout	Page A...		Completed set...		michael.walsh	4/2/20...							
Group	Page A...		Completed set...		michael.walsh	4/2/20...		these issues are why the annotation phase exists					
Line	Page A...		Completed set...		DSA-ACS	4/2/20...		fire					
Group	Page A...		Completed set...		DSA-ACS	4/2/20...							
Text Box	Page A...		Completed set...		DSA-ACS	4/2/20...		opening effort may be increased to					
	Page A...		Completed set...		DSA-FLS	4/2/20...		45 min					





Community Spaces | Dyer Kelly Elementary School





New Learning Spaces | Dyer-Kelly Elementary School





relationships. performance. design.

LIONÄKIS