

Long Range Facility Audit 2009-2019

Clovis Unified School District • August 2009



Buchanan High School



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Acknowledgements

HMC Architects submits the CUSD Facility Needs Assessment with acknowledgement to the District's Facility Division, Maintenance & Operations staff, Director of Construction & Engineering and over-all support from the office of the Assistant Superintendent, Facility Services. HMC would like to acknowledge the District Facility Audit Leadership team (listed below) for their support of the process to clarify and define the District building standards and their ongoing support of the facility audit process.

Board of Education

Sandra A. Bengel
Christopher Casado
Brian D. Heryford
Ginny Hovsepian
Elizabeth J. Sandoval
Scott Troescher
Jim van Volkinburg, DDS

District Superintendent

Terry Bradley, Ed.D, Superintendent

Steering Committee

Don Ulrich, Assistant Superintendent, Facility Services
Steve Ward, Associate Superintendent, Business Services
John Poytress, Director of Plant Operations
Stan Kawaguchi, Grounds Supervisor
Brad Pawlowski, Maintenance Supervisor
Chris Allen, Custodial Supervisor
Bill Rice, Custodial Supervisor
Robert Schram, Food Services Supervisor
Rick Lawson, Director of Construction Services
Dan Resciniti, Director of Technology Services
Joe Bjerke, Director of Transportation

Acknowledgements (cont'd)

HMC Architects and Harris Construction also recognize the following team of local consultants for their diligence in conducting a detailed assessment of the current facilities on 33 school sites and 12 District support facilities constructed prior to 2001 in the time schedule outlined by the District. In addition, all District facilities were assessed for the condition of technology. Their recommendations and insights are based on over 100 years of collective experience in public school construction.

Consultant	Company	Role
Scott Griffith	HMC Architects	Principal in Charge
Walt Byrd	HMC Architects	Project Manager
Jeff Berrios, Mandie Abels, Rick Sacksteder, Stanley Ng	HMC Architects	Building Conditions
Doug Reitz	Harris Construction	Cost Estimation & Scheduling
Tyler Arrigoni, John Fowler, Gil Galvan	OneInterface.net	Electrical & Technology
Gary Lindeman, David Oustad	Lawrence, Nye, Anderson	Mechanical & Plumbing
Sean Smith, Fred Wong	Blair, Church & Flynn	Site, Turf, Irrigation

Our team recognizes the extraordinary commitment of the Clovis community for supporting five local school bond measures, and the Clovis Unified School District Governing Board and Superintendent for their commitment to providing “world class” facilities for the students, staff and community. Faced with significant encroachments to the general fund, the CUSD Governing Board continues to prioritize funding for the construction of new schools, modernization and improvement of existing facilities, and Maintenance & Operation. Although our team has identified a significant amount of work for the District for over the next 10 years, every consultant commented on the excellent condition of the facilities targeted in this audit. Our team also recognizes the on-going efforts of the Plant Operations staff for their commitment to maintain all District facilities in excellent condition.

Last but not least, our team would like to express appreciation to HMC's Ontario Office for their support of this project. In particular, we would like to recognize Amanda Ishak and Matt Endsley. Amanda and Matt proved to be an invaluable resource for our team in producing a final product that will serve as a roadmap to provide outstanding facilities for the students and staff of the Clovis Unified School District.



Executive Summary/Planning Guidelines

The primary goal of the CUSD Long Range Facility Audit was to provide the same “standard” of learning environment for all students, and working environment for all employees. The Clovis Unified School District issued a Request for Proposals on October 12, 2008 to select a firm to conduct a Long Range Facility Needs Assessment. On December 1, 2008, the District selected HMC Architects, in partnership with Harris Construction, to clarify the District’s building and equipment standards, and to conduct a detailed facility needs assessment of existing facilities constructed prior to 2001. The condition of the technology infrastructure was assessed for all District sites, as well.

The objectives of the CUSD Facility Audit Request for Proposals were:

- Identify standards for the District’s infrastructure
- Assess District facilities constructed prior to 2001 against these standards
- Assess all District facilities against standards for technology infrastructure
- Identify , prioritize, and estimate costs for projects that will move all District facilities toward approved standards
- Identify projects into a 10 Year Facility Master Plan, with projects prioritized for 1-2 years, 3-5 years, and 6-10 years

Project Scope

The scope of work for the CUSD Long Range Facility Audit included conducting a comprehensive audit of all current CUSD facilities constructed prior to 2001 (all sites were assessed for the condition of the technology infrastructure), including facilitating multiple meetings with site and District staff to clarify building and equipment standards for the following disciplines:

- Site Work
- Architectural/Building Conditions
- HVAC
- Plumbing
- Electrical
- Technology on all District facilities



Project Timeline

Phase 1: Completed by January 31, 2009

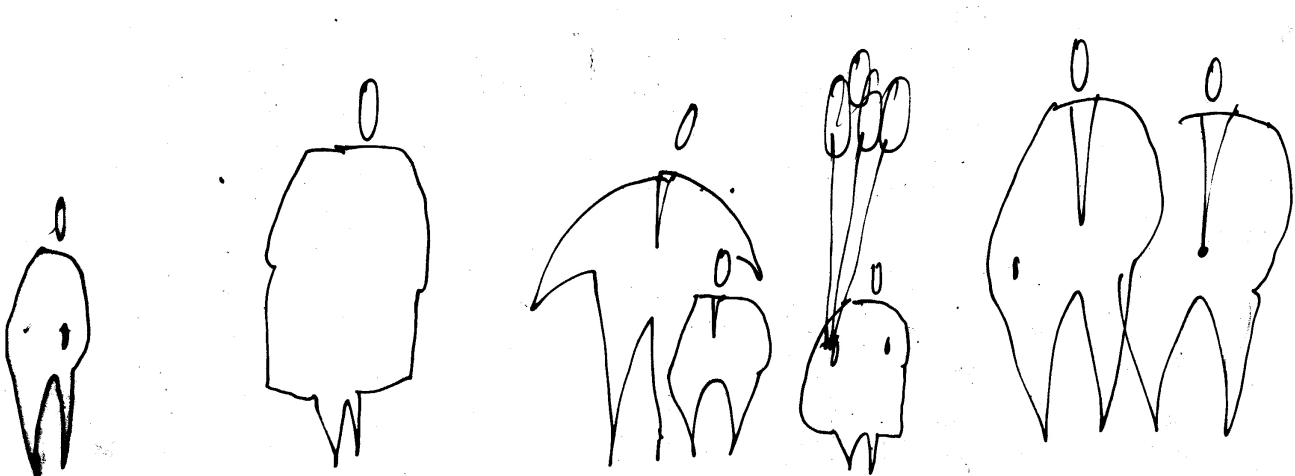
- Facilitate multiple meetings with District personnel to establish facility and equipment standards for disciplines identified

Phase 2: Completed by May 31, 2009

- Conduct an assessment of all facilities constructed prior to 2001 and identify projects that will bring identified deficiencies up to approved District standards

Phase 3: Completed by June 30, 2009

- Conduct a Governing Board workshop to update the Board and District Administration regarding the status of the CUSD Long Range Facility Audit
- Present a final report to District Leadership and CUSD Governing Board in both a written and electronic format





Project Process

The following phases of work were established to address the scope of the CUSD Long Range Facility Audit within the timeframe established by the District. The expected outcome was to deliver a 10-Year Facility Master Plan, based on professional experience, and aligned with current and future funding opportunities.

Phase 1: Meet with District Facility Leadership Team to clarify District Building Standards

- Task 1: Introduce Facility Needs Audit process to District Leadership through multiple District forums (Supt. Cabinet, Supt. Staff, Area Leadership meeting, District SART)
- Task 2: Review the following data related to the standard and condition of current facilities
- Elementary Education Specifications and Building Standards
 - District maintenance records
 - 10-year deferred maintenance program
 - 10-year District Facilities Master Plan
- Task 3: Meet with District Facility Leadership Team
- Scheduled milestones for the project
 - Clarify educational program goals and District Strategic Plan
 - Clarify the program for District Support Facilities
 - Establish sustainability goals and green practices for the project
 - Clarify equity standards and community expectations for each school
 - Establish District Building & Equipment Standards
- Task 4: Meet with site Principals and designated District staff of targeted sites:
- The facility audit process and purpose
 - Schedules and tasks
 - Site/facility self-assessment Zoomerang model
 - Clarify difference between District maintenance projects and facility audit projects

Phase 2: Comprehensive Assessment of Facilities to identify deficiencies to District Standards

- Task 1: Project Monitoring Schedule
- Establish milestone meetings to include:
 - Site kick-off meetings
 - Site self-assessment schedule
 - Site visitations
 - Summery schedule with site staff
 - Conduct "mock" facility audit of elementary, secondary and support site
 - Train consultants for consistency
 - Establish common check lists for consultant to report findings from site visits
 - Provide results of site self-assessment surveys to consultants prior to visitation of the sites
 - Create and distribute a Site-Self Assessment Tool for the Principal and the Plant Supervisors to complete prior to consultant visits to sites
 - The Principal survey focused on how the facilities on their sites are addressing the following District Aims:
 - Maximizing Student Achievement
 - Ensuring a safe and positive learning environmentPrincipals and Directors were also asked to prioritize up to three facility projects on their campus
 - The Maintenance & Operations Survey focused on how the facilities are addressing the

Project Process (cont'd)

following District Aim:

Operating with increasing efficiency and effectiveness

- Conduct facility audit to evaluate condition, and relationship to District Standards for each building
 - Consultants submit visitation schedules for site review
 - Site custodial staff and District maintenance staff available as needed to assist the audit team
- Conduct regular “milestone” meetings with consultants at the conclusion of each group of site visitations
 - Site observation checklist are submitted to Harris Construction for cost estimating, escalated to time of construction
- Consultants complete a summary report of findings, including, but not limited to, the following:
 - Itemized and detailed list of equipment condition, replacement schedule, infrastructure upgrades, modernizations/facility improvements to bring all sites into compliance with current accessibility, building codes, District educational specs, and/or standards sorted by site and by building
 - Make recommendations for future projects: 1-2 years, 3-5 years and 6-10 years
 - Project scope and schedule of work
 - Estimate costs to the date of construction for each project

Phase 3: Final Deliverable for the District Facility Assessment Projects

- Task 1: Prepare milestone meeting report for the District Board Sub Committee
- Task 2: Prepare final deliverable document for Principals, Facility & Plant Op Departments, Governing Board, and Superintendent
- Facility Master Plan sorted by site which includes replacement and repair schedules
 - Projects sorted by Energy, Deferred Maintenance, Health & Safety, and ADA
 - Prioritize projects for the next 1-2 year, 3-5 years and 6-10 years
 - Escalate cost of each project to date of construction
- Task 3: Present findings and “draft” deliverable to the Governing Board
- Schedule a Board Workshop to present findings
- Task 4: Final Deliverable
- Governing Board to receive summary report of findings, including identified projects (including cost estimates) for all sites
 - The District Facility Leadership Team to receive a detailed summary of findings, including identified projects (included cost estimates) for all sites in a written and electronic format
 - The District will have ability to adjust and manipulate the database to respond to changing conditions within the District.
 - Site Principals/directors will receive a summary report of findings and projects for their school/ District site (including cost estimates)
- Task 5: Implementation of the Long Range Facility Audit
- Update Elementary and Secondary Educational Specifications
 - Conceptual Design for projects based on educational specifications
 - Create an implementation schedule for identified projects



Project Recommendations

District Administrators, Principals, and Directors were provided an opportunity to identify projects they believed would enhance the efficiency and effectiveness of the District Mission “to be a quality educational system, providing the opportunity for all students to reach their potential in mind, body and spirit.” A wide variety of projects were suggested by the District. Individual projects were evaluated by our team of consultants, based on the following criteria, to determine their feasibility and practicality for the District:

- Alignment to the approved District building standards and educational specifications
- Alignment to the current educational program need(s) requested with the project
- Feasibility of cost to the District (based on our opinion) and space availability on the site

Cost estimations were only done on projects that our consultants felt aligned to the components of our “decision-making” criteria. Only projects that were determined to be feasible and practical were included in the site narratives.

Cost Estimation

Potential project costs were estimated according to the cost index at the time of construction. An inflation calculator was incorporated into the detailed Excel spreadsheets for each site. Costs were estimated using a baseline average for equipment, materials & labor, and should be considered “estimates”. An additional 25% was added to each project that includes the “fees” for testing, inspection, and architectural/engineering. These costs (are in addition to the project construction costs) will need to be considered when the District chooses to schedule the project.



Final Deliverables

Results were presented to the District in various formats depending on the needs of the end user. Below is a summary of the contents for these reports.

District Staff

Governing Board and District Superintendent

Office of Facility Services

Office of Maintenance and Operations

Site Principals

CUSD Facility Audit Report

District overview, including a Power Point presentation

District summary, summary of all schools and support facilities (including supporting detailed spreadsheets and consultant checklists)

School Site Summary Report





The Implementation of a 10-Year Facility Needs Master Plan

The CUSD Facility Needs Audit will provide the District access to a significant amount of data, information, and recommendations regarding the condition of District facilities constructed prior to 2001 (and the technology infrastructure for all facilities). The primary goal of the CUSD Facility Needs Assessment was to develop a long range plan to bring all District school facilities, and support facilities, up to current approved District building and equipment standards. How the District chooses to use this data, information and recommendations to guide their decision making process, will be critical to the success of this effort.

It is our recommended that the District consider the CUSD Facility Audit within the context of a long range (10-year) Facility Master Plan. A 10-Year Facility Master Plan should be flexible and adaptable to changing conditions within the District and community. We feel that it will be essential to base decisions on a well crafted set of Elementary and Secondary Educational Specifications.

Another critical factor to be considered by the District will be the availability of state and local funding. It is our recommendation that an open dialogue begin immediately with the community to illustrate the need to upgrade current facilities well in advance of a formal campaign for a bond measure.

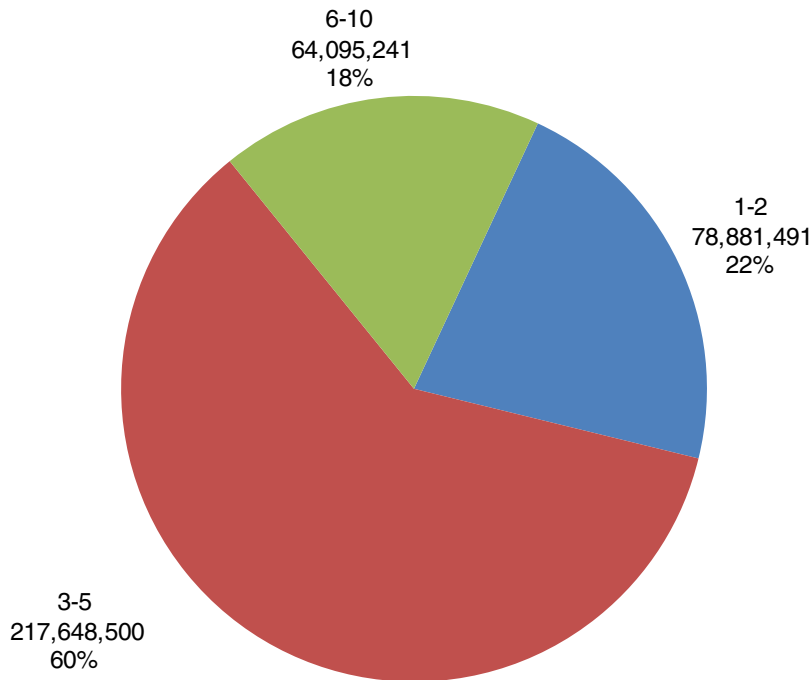
Important components that we recommend the District to consider, is to fully implement the results of the Long Range Facility Audit, are the following:

1. A thorough review and update of the District's current Elementary and Secondary educational specifications and building standards to insure alignment to curriculum and instructional methodologies to appropriate space relationships requirements.
2. Development of a conceptual design master plan, based on the educational specifications, for each building modernization, addition and expansion. These conceptual diagrams should identify the size, configuration and location of new facilities and reconfiguration of existing facilities.
3. Review current funding sources and begin to develop strategies for a future bond campaign. Evaluate the potential community tolerance for future bond initiatives for CUSD.
4. Strategically create a project implementation schedule for future projects indentified in the 10-Year Facility Needs Assessment Master Plan. This schedule must be based on maximizing current and potential funding sources.



District-Wide Project Data

District Summary

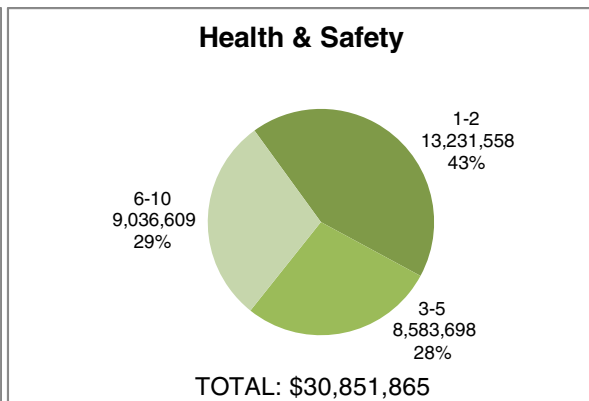
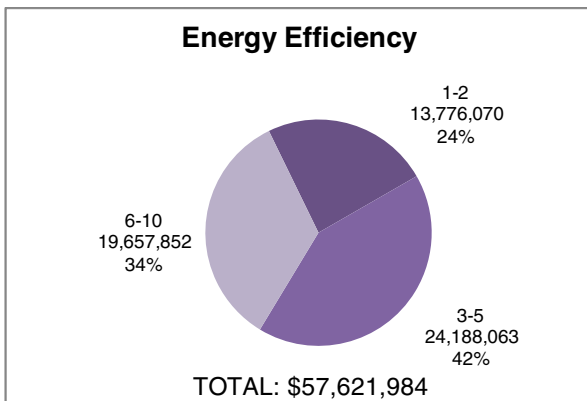
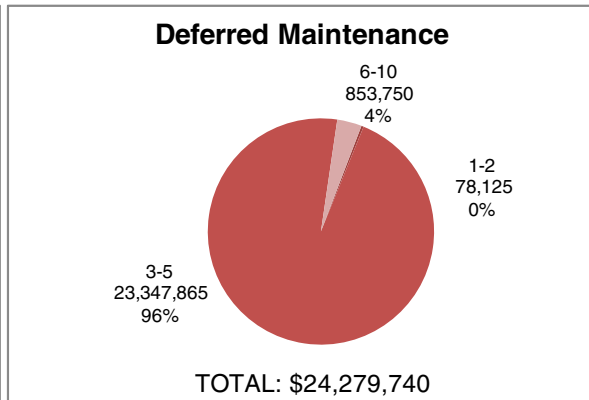
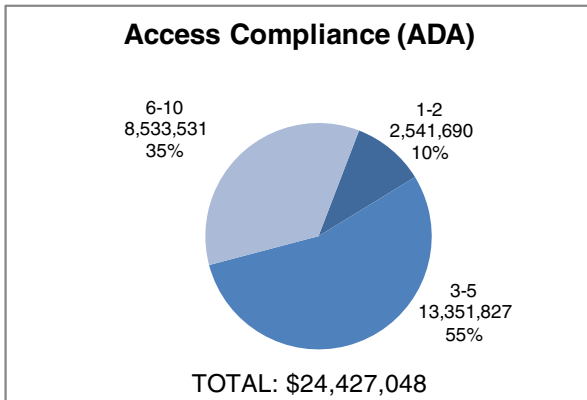
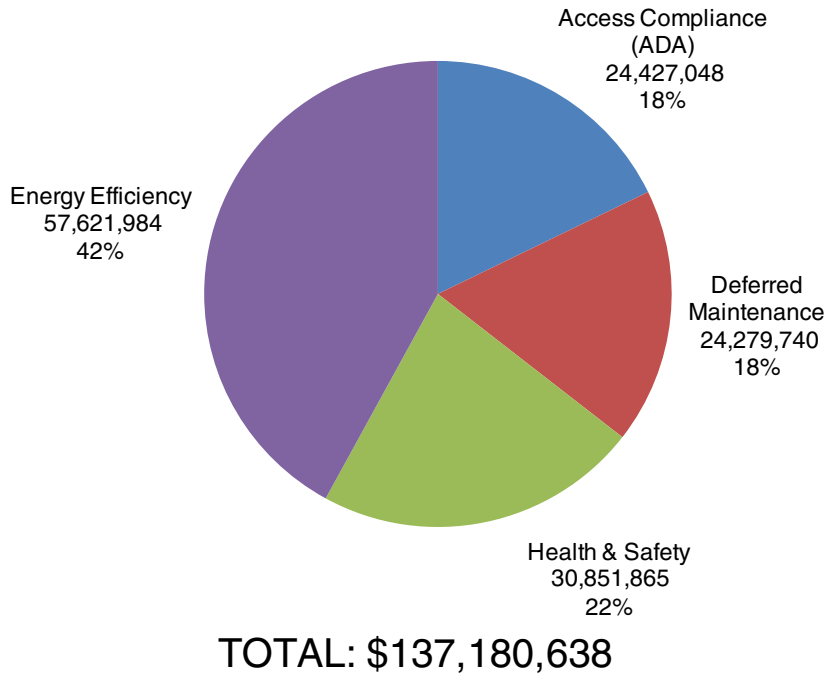


Total District Needs Assessment

Summary by Area	Total
Group 1 - David E. Cook Center	50,304,840
Group 2 - Buchanan Area	77,683,445
Group 3 - Clovis North Area	17,534,207
Group 4 - Clovis Area	91,537,174
Group 5 - Clovis West Area	74,897,993
Group 6 - Clovis East Area	48,667,574
Total	\$ 360,625,232

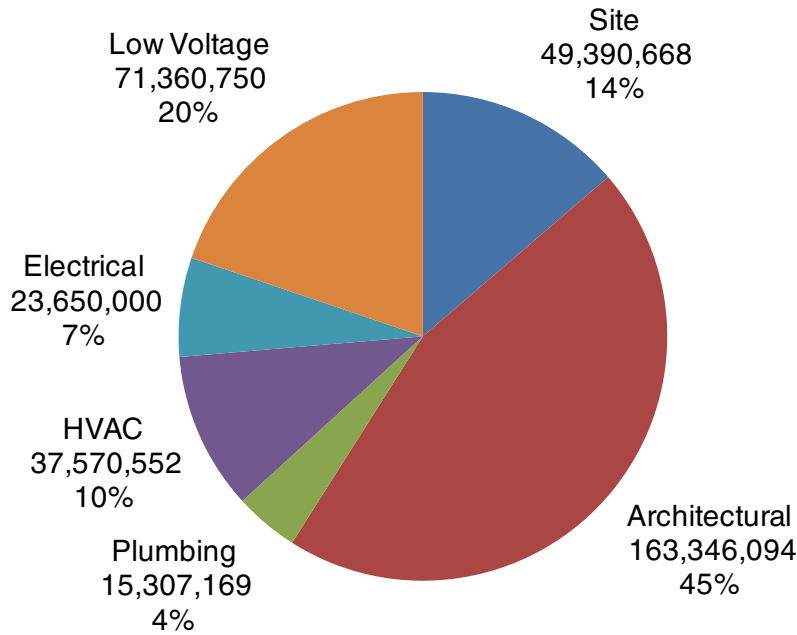


Breakdown by Project Category





Total by Discipline



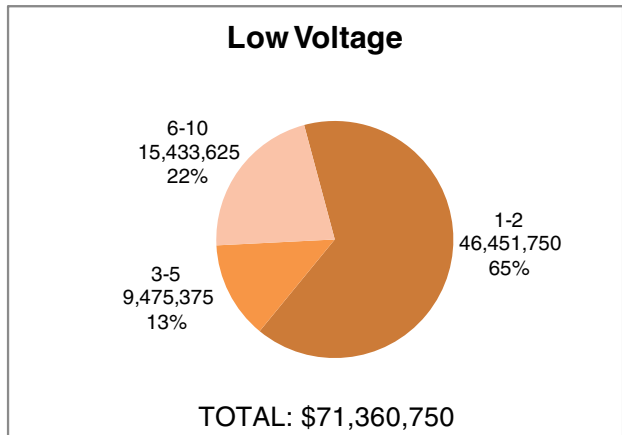
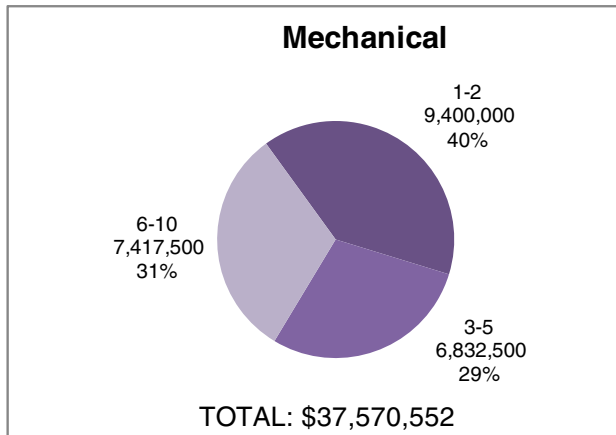
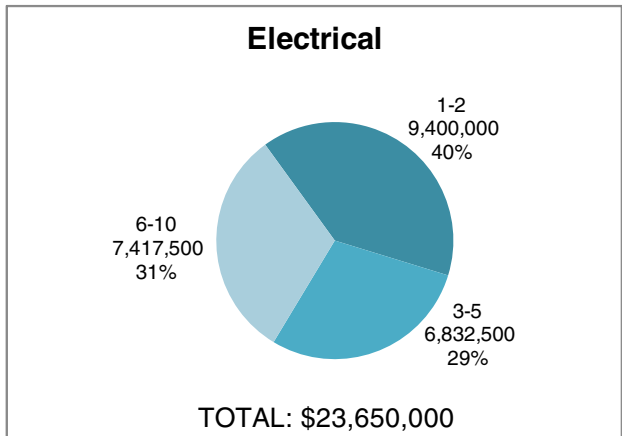
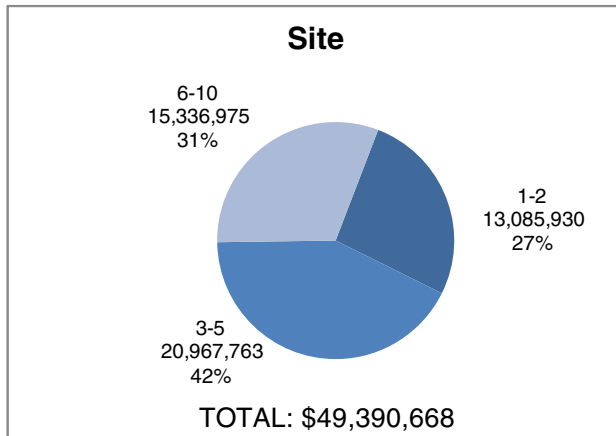
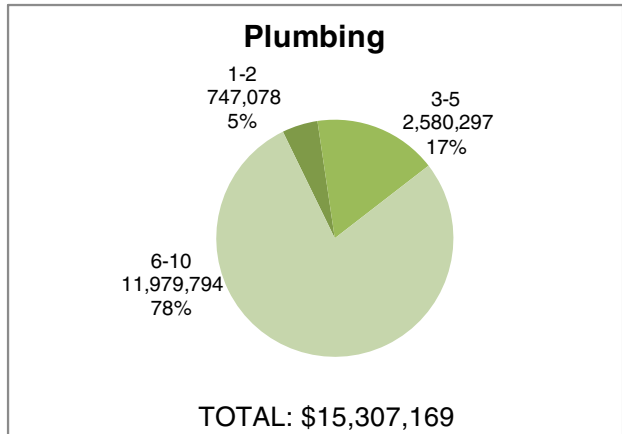
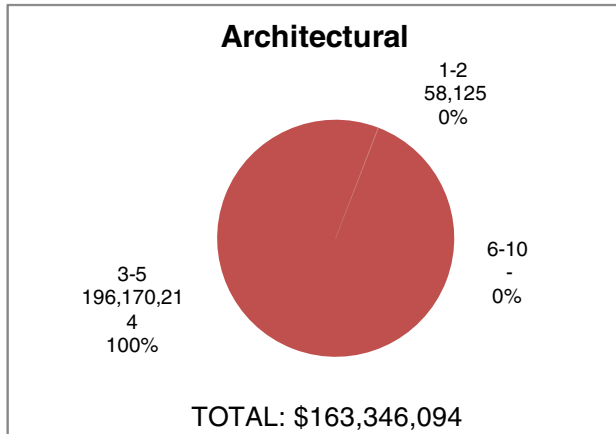
TOTAL: \$360,625,232

Total District-Wide Needs Assessment

Summary by Discipline	1-2	3-5	6-10	TOTAL BY PROJECT CATEGORY
Site	13,085,930	20,967,763	15,336,975	49,390,668
Architectural	58,125	163,287,969	-	163,346,094
Plumbing	747,078	2,580,297	11,979,794	15,307,169
HVAC	9,138,608	14,504,597	13,927,347	37,570,552
Electrical	9,400,000	6,832,500	7,417,500	23,650,000
Low Voltage	46,451,750	9,475,375	15,433,625	71,360,750
Total	\$ 78,881,491	\$ 217,648,500	\$ 64,095,241	\$ 360,625,232

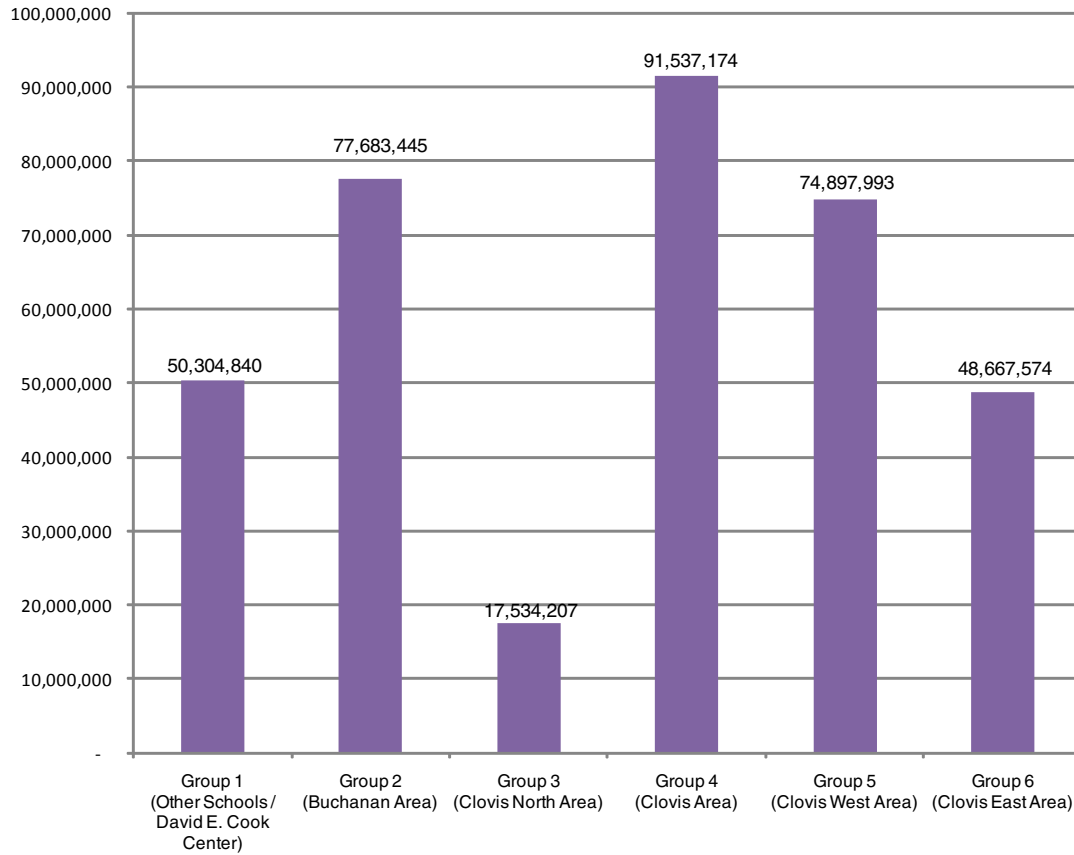


Breakdown by Discipline

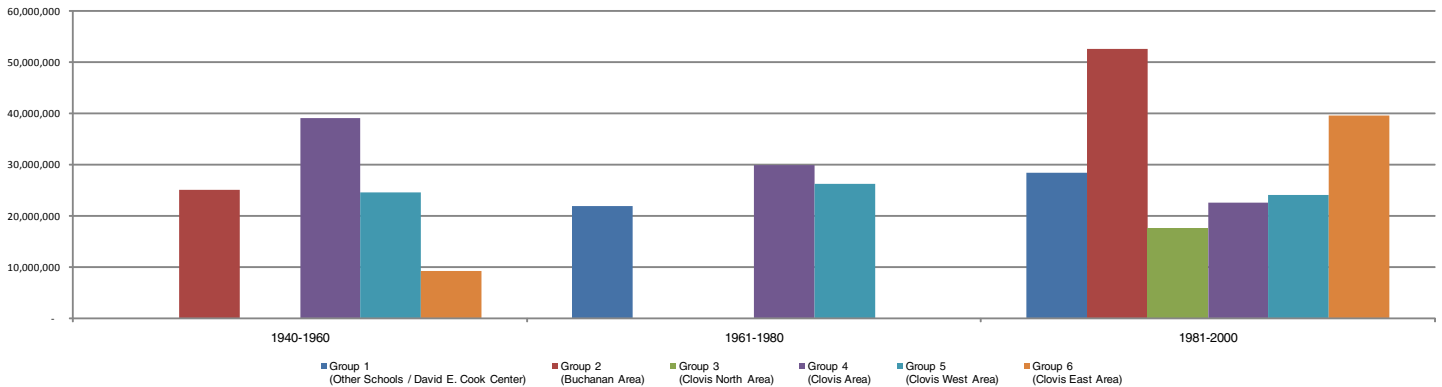




Total by High School Attendance Area



Summary by Year of Construction





District Wide Summary

School	1-2	3-5	6-10	TOTALS
Alta Sierra Intermediate School	2,496,910	5,216,060	2,096,841	9,809,811
Buchanan High School	2,186,412	21,113,939	6,053,820	29,354,171
Bud Rank Elementary School	110,000	0	263,125	373,125
Cedarwood Elementary School	1,436,885	2,494,889	600,128	4,531,902
Center for Advanced Research and Technology	1,196,649	223,846	3,290,386	4,710,881
Century Elementary School	1,417,335	2,656,039	1,667,101	5,740,475
Clark Intermediate School	2,474,515	11,935,481	3,538,113	17,948,109
Clovis Adult School	932,248	1,147,288	771,922	2,851,457
Clovis East High School	2,314,387	7,211,415	3,167,906	12,693,708
Clovis Elementary School	1,100,364	1,428,374	1,369,444	3,898,181
Clovis High School	2,410,497	15,979,777	6,308,134	24,698,408
Clovis North Educational Complex	16,250	0	0	16,250
Clovis West High School	3,061,024	8,037,810	3,922,954	15,021,788
Cole Elementary School	2,028,375	6,622,411	618,425	9,269,211
Community Day School	993,923	92,800	324,500	1,411,223
Copper Hills Elementary School	1,129,439	3,332,618	866,839	5,328,896
David E. Cook Center	4,113,934	10,129,830	2,608,958	16,852,721
Dry Creek Elementary School	2,934,689	3,401,961	861,266	7,197,916
Fancher Creek Elementary School	2,719,828	3,640,398	505,943	6,866,169
Fort Washington Elementary School	1,384,638	2,223,079	817,482	4,425,198
Freedom Elementary School	928,750	238,125	786,250	1,953,125
Fugman Elementary School	457,500	168,750	1,521,875	2,148,125
Garfield Elementary School	1,732,454	3,540,405	1,246,270	6,519,130
Gateway/Enterprise Alternative Education	568,218	3,035,519	1,460,165	5,063,902
Gettysburg Elementary School	2,631,511	5,551,824	982,827	9,166,161
Jefferson Elementary School	2,230,678	3,693,616	637,967	6,562,261
Kastner Intermediate School	1,828,375	7,082,309	2,336,927	11,247,611
Liberty Elementary School	2,189,887	4,008,284	337,368	6,535,539
Lincoln Elementary School	1,972,780	2,832,691	969,173	5,774,643
Maple Creek Elementary School	1,166,640	3,864,558	1,131,446	6,162,644
Mickey Cox Elementary School	1,444,861	3,077,500	725,055	5,247,416
Miramonte Elementary School	1,473,484	4,932,677	1,105,791	7,511,951
Mountain View Elementary School	2,203,822	4,700,859	624,754	7,529,436
Nelson Elementary School	2,330,241	2,987,061	517,735	5,835,037
Pinedale Elementary School	1,601,134	11,778,223	973,842	14,353,199
Reagan Elementary School	72,500	0	291,875	364,375
Red Bank Elementary School	1,999,173	2,079,408	888,234	4,966,814
Reyburn Intermediate School	1,609,284	5,748,866	2,748,988	10,107,138
Riverview Elementary School	864,000	298,125	976,250	2,138,375



District Wide Summary

School	1-2	3-5	6-10	TOTALS
Sierra Outdoor School	802,875	18,460,531	151,250	19,414,656
Sierra Vista Elementary School	2,254,104	5,064,534	544,542	7,863,179
Tarpey Elementary School	2,216,081	5,631,262	790,013	8,637,355
Temperance-Kutner Elementary School	2,858,873	5,295,594	1,016,641	9,171,108
Valley Oak Elementary School	2,597,333	2,702,636	242,364	5,542,333
Weldon Elementary School	2,337,383	3,930,881	386,479	6,654,743
Woods Elementary School	51,250	56,250	1,047,875	1,155,375
Total:	\$ 78,881,491	\$ 217,648,500	\$ 64,095,241	\$ 360,625,232



Site Requested Project List

(as submitted by site Principals)

Group 1: Other Schools/David E. Cook Center

Clovis Adult School

- None

Center for Advanced Research and Technology

- HVAC system needs to be analyzed and repaired to assure a comfortable temperature for student learning. Some rooms exceed 85 degrees on a regular basis
- Replace locks on classroom doors to give teachers capability to lock from inside in the event of threat
- Repair/replace outside security cameras

Gateway/Enterprise Alternative Education

- None

Sierra Outdoor School

- Upper classroom building modernization
- Lower classroom building modernization
- New Gymnasium
- Irrigation to ball field
- Bus loading and unloading area
- Maintenance and Transportation Building
- Amphitheater stage

Maintenance and Transportation Building

- Additional office space in the maintenance/transportation building
- Install restroom upstairs in work control area
- Push fence in north parking lot towards Herndon: redevelop parking lot
- Additional T-shed in outside storage area

District Office West

- Landscape face-lift

District Office East

- None

Grounds Building

- Additional grounds building north of the existing grounds building: bays for storage
- Move mechanics shop to new building
- Add concrete and landscaping between Professional Development Building and warehouse

Security and Attendance Building

- None

Warehouse and Graphic Arts Building

- None

District Services Building

- None

Construction Services Building

- None



Group 2: Buchanan Area

Century Elementary School

- Rain gutters added to buildings
- Fix drainage problems around school
- Gates on Kindergarten parking lot to prevent people from driving on campus during off hours
- Review of main parking lot and bus loading zone
- Upgrade planter areas

Cole Elementary School

- Technology Infrastructure
- New Multipurpose Room/Cafeteria/Teacher Lounge
- New Administrative office, reception and office staff area

Dry Creek Elementary School

- Construction of a new academic building to house all 4-6 grade classes, music, and special education
- Landscape upgrade

Garfield Elementary School

- A new addition to our library
- Landscaping and concrete areas need to be renovated
- Remodeling of the front office
- Kindergarten storage upgrade

Tarpey Elementary School

- Main office expansion/upgrade
- Landscape upgrade

Woods Elementary School

- None

Alta Sierra Intermediate School

- Library demo kiosk
- Phone systems tech infrastructure
- Landscaping: hills planter flatten mounds

Buchanan High School

- Heating and cooling system needs to be fixed
- Need a new counseling center
- Need a new bathroom facility at the pool

Group 3: Clovis North Area

Bud Rank Elementary School

- None

Copper Hills Elementary School

- Extend student drop off zone

Fugman Elementary School

- None

Mountain View Elementary School

- HVAC upgrade

Riverview Elementary School

- None

Granite Ridge Intermediate School

- None

Clovis North High School

- None



Site Requested Project List (cont'd)

(as submitted by site Principals)

Group 4: Clovis Area

Cedarwood Elementary School

- Add dry wells on #2 and #3 baseball fields (very poor drainage)

Clovis Elementary School

- Have bollards placed throughout the campus so people would not drive on the campus
- Have more signage and red painted curbs for entire frontage road that goes through the campus
- Area, lighting, and sound
- Multipurpose Room window coverings

Mickey Cox Elementary School

- Lighting: improved in kindergarten classrooms, cafeteria and amphitheatre areas
- Air condition corrections: students get irritable and act out when the temperature gets too high in the classrooms and library

Gettysburg Elementary School

- We would love to have a new snack bar, like newer schools have, out by our ball fields. This would also allow us some much needed storage space

Jefferson Elementary School

- Public address/bell system
- Air conditioning both chiller and boiler need to be replaced
- Cameras need to be repaired to work correctly

Red Bank Elementary School

- HVAC
- Teacher workroom expansion
- Access to greater technology in the classroom (projector, wireless, etc.)

Sierra Vista Elementary School

- Library expansion
- Moderization of Multipurpose Room
- AC/Heating system replaced
- Cement upgrade and repair

Weldon Elementary School

- Concrete project in front of A wing and blacktop
- Classroom technology renovation (electrical access, ceiling mounts for LCD, pull down screens)
- Multipurpose Room/Kitchen renovation

Clark Intermediate School

- New gym floor (scheduled: added athletic facilities, field space: Rodeo Grounds)
- Technology that would allow classrooms to have video capabilities
- Amphitheater landscape upgrade
- Room for stagecraft and storage for the MET
- Landscaping, irrigation, and playfield improvements

Clovis High School

- The lockers in the girls locker room need to be replaced from 1969 to provide larger lockers for students to store their backpacks in during PE class to prevent thefts including enough lockers for each student
- Modernization of facilities to have all classrooms have LCD mounts and wiring in the ceiling, computers labs, field houses, band and folklorico practice rooms, etc.



Group 5: Clovis West Area

Fort Washington Elementary School

- None

Liberty Elementary School

- Renovate the main office/library
- Get a new AC/Heating system
- Additional areas for teacher collaboration and storage

Lincoln Elementary School

- New restrooms adjacent to the playground.
Currently the only restrooms close by are in the snack bar area and face away from supervision
- Walkway-cement work: cement curbs for flower beds, cement work for raised planter boxes
- Regrading grass: drainage issues

Maple Creek Elementary School

- Air conditioning and heating unit replaced
- Fire alarm system-heat sensors
- Traffic calming devices and speed bumps in parking lot

Nelson Elementary School

- Multipurpose Room modernizing
- HVAC upgrades
- Updating of paint/landscaping
- Technology infrastructure

Pinedale Elementary School

- Multipurpose Room modernizing
- Library Media Center
- Classroom space and design to meet the vision of our schools
- Improvement in technology in the buildings so that it supports our vision, and improvement in the cooling and heating systems
- Remodel Classroom

Valley Oak Elementary School

- Window replacement

Kastner Intermediate School

- Need upgrade technology labs
- Locker room lockers sorely need to be replaced
- Chiller and air handler in Multipurpose Room/ Bandroom always down
- Replace gym bleachers as wood bleachers are a safety hazard
- Need to retrofit the woodshop with safer equipment
- Replace gymnasium bleachers

Clovis West High School

- Camera Installation
- More fob systems for doors so access into A building by staff does not require the need to leave the doors unlocked
- Completion of appropriate counseling center



Site Requested Project List (cont'd)

(as submitted by site Principals)

Group 6: Clovis East Area

Fancher Creek Elementary School

- A new addition to our library
- Landscaping and concrete areas need to be renovated
- Remodeling of the front office

Freedom Elementary School

- None

Miramonte Elementary School

- Landscape upgrade
- Modernize main office

Reagan Elementary School

- None

Temperance-Kutner Elementary School

- Build a main office
- A new AC/Heating system
- security alarm system for entire school
- Technology infrastructure

Reyburn Intermediate School

- HVAC upgrades
- Bell/alarm sensors
- Water main cracks

Clovis East High School

- Athletic office modernization
- New restrooms for baseball stadium



Site Areas

Group 1: Other Schools/David E. Cook Center

- Clovis Adult School
- Center for Advanced Research and Technology
- Gateway/Enterprise Alternative Education
- Community Day School
- Sierra Outdoor School
- Maintenance and Transportation Building
- District Office West
- District Office East
- Grounds Building
- Security and Attendance Building
- Warehouse and Graphic Arts Building
- District Services Building
- Construction Services Building
- Professional Development Building

Group 2: Buchanan Area

- Century Elementary School
- Cole Elementary School
- Dry Creek Elementary School
- Garfield Elementary School
- Tarpey Elementary School
- Woods Elementary School
- Alta Sierra Intermediate School
- Buchanan High School

Group 3: Clovis North Area

- Bud Rank Elementary School
- Copper Hills Elementary School
- Fugman Elementary School
- Mountain View Elementary School
- Riverview Elementary School
- Clovis North Educational Center

Group 4: Clovis Area

- Cedarwood Elementary School
- Clovis Elementary School
- Mickey Cox Elementary School
- Gettysburg Elementary School
- Jefferson Elementary School
- Red Bank Elementary School
- Sierra Vista Elementary School
- Weldon Elementary School
- Clark Intermediate School
- Clovis High School

Group 5: Clovis West Area

- Fort Washington Elementary School
- Liberty Elementary School
- Lincoln Elementary School
- Maple Creek Elementary School
- Nelson Elementary School
- Pinedale Elementary School
- Valley Oak Elementary School
- Kastner Intermediate School
- Clovis West High School

Group 6: Clovis East Area

- Fancher Creek Elementary School
- Freedom Elementary School
- Miramonte Elementary School
- Reagan Elementary School
- Temperance-Kutner Elementary School
- Reyburn Intermediate School
- Clovis East High School



Buchanan High School

1560 N. Minnewawa, Clovis, CA 93619 • t. 559-327-3000, f. 559-327-3090



General Information

Grade Level Configuration:	9-12
Enrollment Capacity:	2,668
Site Acreage:	145
Total Plan Square Footage:	290,497

Overview: Buchanan High School was built in 1993. Buchanan High School currently has 96 permanent classrooms and 16 portable classrooms to accommodate a student body of 2,668. Along with an administration building, library media center, multipurpose room, two gymnasiums, snack bar and restroom the facilities adequately support the instructional programs. Buchanan High School has numerous athletic playfields and play courts to accommodate school and community programs. In addition, Veteran's Memorial Stadium, and the Buchanan Softball Complex Buchanan High School are District operated facilities located on the Buchanan campus. Various community groups utilize the school and district facilities and play courts outside the normal school day. At this time, the school is operating at capacity.

Year Built/Renovated/Modernized

Based on available drawings and discussions with District maintenance personnel, we obtained the following information regarding year constructed and Division of the State Architect (DSA) approval for campus construction projects.

Opened: 1993
Architect: Darden

Building/Rooms:	DSA Application Number:	Approval Date:	<u>MODERNIZATION ELIGIBILITY</u>	
			25 Years + 12 Months:	50 Years + 12 Months:
All	51096	10/3/1991	10/3/2017	10/3/2042

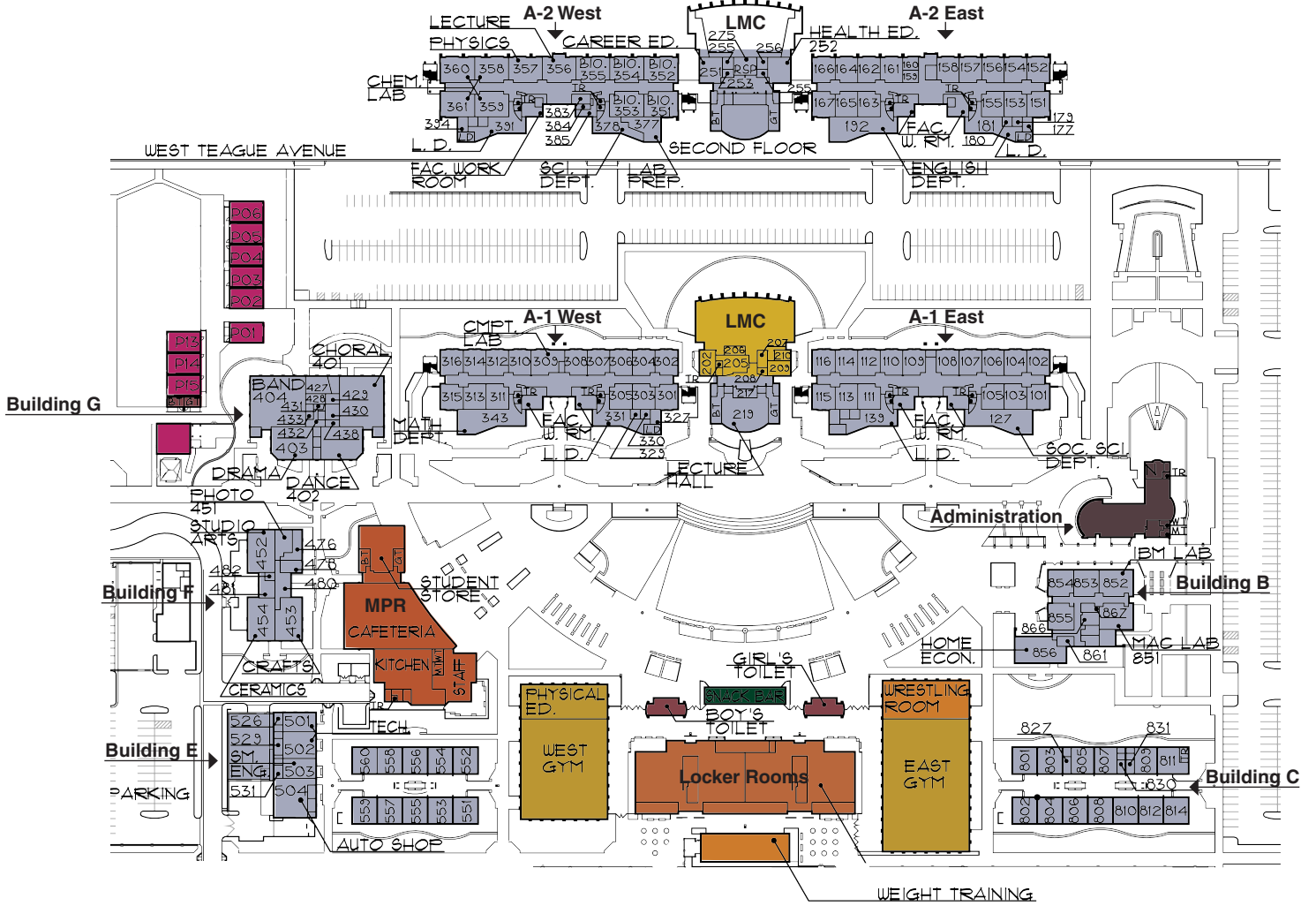
Site Plan Legend

-  Classroom Building
-  Kindergarten
-  Multipurpose Room
-  Snack Bar
-  Administration
-  Library/Media Center
-  Locker Room
-  Wrestling/Weights
-  Restroom
-  Gymnasium
-  Shop Building
-  Maintenance
-  Cluster Office
-  Storage Building
-  Concert Hall
-  Field House
-  Pool Office
-  Portables
-  Large Gym
-  Small Gym





Site Plan



Civil Engineering

ADA Compliance

Observations: The concrete condition is good, but there are some locations of cracking and trip hazards. The curb ramps do not meet ADA requirements. The accessible stall signage and striping require moderate changes. ADA detectable warning surface is required in various locations. Storm drain inlet grates do not meet ADA requirements for maximum grate openings. Walk gates do not meet ADA requirements. Some of the drinking fountains do not meet ADA requirements.

Recommendations: Reconstruct concrete improvements to eliminate trip hazards and comply with ADA curb ramp requirements. • Add accessible stall signage and striping as required. • Add ADA detectable warning surface at various locations. • Replace storm drain inlet grates in accessible paths of travel with ADA compliant grates. • Replace walk gates with ADA compliant gate hardware. • Replace drinking fountains with ADA compliant drinking fountains.

Site Drainage

Observations: The storm drain system is in good working condition. There is evidence of standing water in a few campus planters and in the playfields behind the backstops.

Recommendations: Add additional storm drain inlets or re-grade/reconstruct improvements to eliminate standing water.

Transportation Facilities

Observations: There are 1,347 standard parking stalls on the campus – meeting the District Standard of 660. There are also 42 accessible parking stalls – meeting ADA requirements. Bus loading zone length complies with District Standards. Parent drop-off zone length complies with District Standards. There are bicycle racks for 60 bicycles.

Recommendations: Evaluate the need for additional bicycle racks.

Athletic Facilities

Observations:

The varsity football stadium (Veteran's Memorial Stadium) is in good working condition and meets District Standards, but does not have ADA access to the press box.

The varsity baseball stadium is in good working condition and meets District Standards, but the field turf needs minor weed control around the stadium.

The junior varsity baseball backstop does not have ADA compliant field access, backstop backboards are partially wood, dugout playfield access openings are not ADA compliant, additional concrete is needed to expand the bleacher pads for the 10-row bleachers, and drinking fountains are not ADA compliant. There are 2 10-row bleachers, no foul ball poles, no PA system, and no electronic scoreboard.

The freshmen baseball backstop does not have ADA compliant field access, backstop backboards are partially wood, dugout playfield access openings are not ADA compliant, drinking fountains are not ADA compliant, there are 2 5-row bleachers, and additional concrete is needed to expand the bleacher pads for 10-row bleachers.

The varsity softball stadium is in good working condition and meets District Standards, but the field turf needs minor weed control. Backstop backboards are partially wood and drinking fountains to be replaced with ADA compliant drinking fountains.

The junior varsity and freshman softball are in good working condition and exceed District Standards, but the field turf needs minor weed control. Backstop backboards are partially wood, dugout playfield access openings are not ADA compliant, and drinking fountains are not ADA compliant.



Civil Engineering (cont'd)

Soccer fields meet District Standards, but the field turf needs minor weed control.

Track and field facilities are generally in good condition and meet District Standards.

Tennis courts meet District Standards, but will require modifications to provide ADA compliant access walk gates.

Playcourts meet District Standards.

Recommendations: At the Veteran's Memorial Stadium, add a vertical lift to the press box. • On junior varsity and freshmen baseball, reconstruct dugout playfield access openings to be ADA compliant, replace wood backboards with HDPE backboards, and replace drinking fountains with ADA compliant drinking fountains. • At junior varsity baseball, add an electronic scoreboard and PA system. • At freshman baseball replace the 2 5-row bleachers with 2 10-row bleachers and add additional concrete slab for the larger bleachers. • On varsity, junior varsity and freshman softball fields, replace wood backboards with HDPE backboards, and replace drinking fountains with ADA compliant drinking fountains. • On junior varsity and freshman softball fields, reconstruct dugout playfield access openings to be ADA compliant. • Modify tennis court access walk gates to be ADA compliant.

Landscape

Observations: All of the campus facilities meet the District Standards of 95% for landscaping coverage. The campus ball fields and soccer fields do not meet the District Standard for a weed condition of less than 25%, while the campus and football stadium fields and campus area meet the requirements. There are a few locations of bare planters and turf areas.

Recommendations: Add shrubs, ground cover, and trees to bare planters. • Replace turf in bare areas. Eradicate weeds as required.

Irrigation System

Observations: The irrigation system is 18 years old and is in good working condition. The irrigation system is controlled by central ready E.T. irrigation controllers and act as standalone units now. The irrigation water supply for Buchanan Educational Center is supplied from four existing irrigation wells on site. The current well pump motors are constant speed. Minor irrigation repairs and modification are required in existing landscape areas to address dry and wet issues. The existing irrigation system has been modified through the years as the result of site changes and new additions. Some of the changes were done by simply deleting or adding sprinklers and have caused wet and dry area.

Recommendations: Upgrade the current irrigation operating system to a central computer controlled system. • Upgrade the two irrigation supply well that are located on Alta Sierra Middle School to VFD controlled pumps to provide a constant operating pressure regardless of pumping rate for a more uniform application of irrigation water. • Prior to upgrading the pump motor and controls, field determination of the current pumping water levels of all of the four water wells on the site should be obtained to evaluate the current status of all of the water wells.

Architectural

Administration Building

Observations: The building functions for its intended use and adequately provides for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Observations: A separate building dedicated for counselors and support staff is needed to serve this campus.

Recommendations: Provide a separate counseling building large enough to house all of the high school counselors and support. This building should be located near the Administration building.

Library Media Center

Observations: The building functions for its intended use and adequately provides for a quality space except for the following: There is no enclosed teaching/classroom space in the library. The overall space of the library is sufficient to include a classroom.

Recommendations: Remodel the library to include a classroom large enough for a typical sized classroom.

Observations: The large computer counter /casework and Charge Desk counter / casework are not functional. They are difficult to use and prohibit supervision.

Recommendations: Replace the computer counter /casework and Charge Desk counter / casework with lower and more functional casework. • Refer to cost sheet for minor recommendations.

Multi-Purpose Building

Observations: The building functions for its intended use and adequately provides for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Classroom Building A

Observations: The building functions for its intended use and adequately provides for a quality space Except for the sunscreen devices on the entire south facade of this building. The function of these sunscreens is to shade all of the south facing windows from the sun. The design of these sunscreens allow too much sun light into the widows. They do not function as intended and do not provide the energy savings as they should

Recommendations: Replace or augment the metal grating of all of these sunscreens to adequately shade these windows from the sun. • Refer to cost sheet for minor recommendations.

Classroom Buildings B, C, D, E & F

Observations: The buildings function for their intended use and adequately provide for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Classrooms Building G

Observations: The buildings function for their intended use and adequately provide for a quality space. This building is scheduled to receive an addition to provide a Performance Arts space.

Recommendations: Refer to cost sheet for minor recommendations.

Gymnasium Buildings, East & West

Observations: The buildings function for their intended use and adequately provide for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.



Architectural (cont'd)

Locker Building

Observations: The building functions for its intended use and adequately provides for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Snack Bar Building

Observations: The building functions for its intended use and adequately provides for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Portable Classrooms

Observations: The buildings function for their intended use and adequately provide for a quality space.

Recommendations: Refer to cost sheet for minor recommendations.

Pool Complex

Observations: The pool complex does not have any restrooms within this facility. The nearest restrooms are located a couple of buildings away from the pool complex.

Recommendations: Provide a restroom building within the pool complex.

Plumbing Engineering

Administration Building

Observations: Most plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Library Media Center

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

Multi-Purpose Building

Observations: Most plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

Building A-1 West

Observations: Most plumbing fixtures meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Building A-1 East

Observations: Most plumbing fixtures meet the district standard. Most fixtures are not ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Building A-2 West

Observations: Most plumbing fixtures meet the district standard. Most fixtures are not ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Building A-2 East

Observations: Most plumbing fixtures meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 1-2 years. • ADA retrofit is suggested.

Classroom Building B

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested. • Retrofitting some fixtures to low flow fixtures may reduce water use.



Plumbing Engineering (cont'd)

Classroom Building C

Observations: Most plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 1-2 years. • ADA retrofit is suggested. • Retrofitting some fixtures to low flow fixtures may reduce water use.

Classroom Building D

Observations: All plumbing fixtures meet the district standard. All fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is not required.

Classroom Building E

Observations: Some plumbing fixtures meet the district standard. Some fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Classroom Building F

Observations: All plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in fair condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

Classroom Building G

Observations: All plumbing fixtures meet the district standard. All fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is not required.

East Gymnasium Building

Observations: All plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

West Gymnasium Building

Observations: All plumbing fixtures meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

Weight Training Building

Observations: All plumbing fixtures meet the district standard. • Most fixtures are ADA compliant. • Most fixtures are in good condition.

Plumbing Engineering (cont'd)

Recommendations: No modernization is required before 1-2 years. • ADA retrofit is suggested.

Locker Building

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested. • Retrofitting some fixtures to low flow fixtures may reduce water use.

Snack Bar Building

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested. • Retrofitting some fixtures to low flow fixtures may reduce water use.

Portable Buildings

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested. • Retrofitting some fixtures to low flow fixtures may reduce water use.

Pre-School Portable Buildings

Observations: Most plumbing fixtures do not meet the district standard. All fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is not required.

Maintenance Buildings

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

Grounds Buildings

Observations: Most plumbing fixtures do not meet the district standard. All fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is not required.

Softball Complex

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 1-2 years. • ADA retrofit is suggested.



Plumbing Engineering (cont'd)

Field House

Observations: Most plumbing fixtures do not meet the district standard. Most fixtures are ADA compliant. Most fixtures are in good condition.

Recommendations: No modernization is required before 1-2 years. • ADA retrofit is suggested.

Varsity Baseball Field

Observations: All plumbing fixtures do not meet the district standard. All fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required until after 10 years. • ADA retrofit is not required.

Playfields

Observations: All plumbing fixtures do not meet the district standard. All fixtures are not ADA compliant. All fixtures are in fair condition.

Recommendations: No modernization is required before 3-5 years. • ADA retrofit is suggested.

Veterans Memorial Stadium

Observations: Many plumbing fixtures meet the district standard. Most fixtures are ADA compliant. All fixtures are in good condition.

Recommendations: No modernization is required before 6-10 years. • ADA retrofit is suggested.

HVAC

Administration Building

Observations: All package units do not meet the district standard. Not all exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • Replace units with high efficiency units at modernization. • Add full DDC controls. • Repair exhaust fans.

Library Media Center

Observations: All units meet the district standards. The building has air handlers and is served by the central plant. Most exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization. • Repair exhaust fans.

Multi-Purpose Building

Observations: All package units do not meet the district standards. The building has air handlers and is served by the central plant. Most exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization. • Repair exhaust fans.

Classroom Building A-1 West

Observations: The building has air handlers and unit ventilators served by the central plant. All exhaust fans operate. The data rooms have separate cooling and meet the district standard. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization.

Classroom Building A-1 East

Observations: The building has unit ventilators served by the central plant. All exhaust fans operate. The data rooms have separate cooling and meet the district standard. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls. • Replace or refurbish units at modernization.

Classroom Building A-2 West

Observations: All air conditioning units meet the district standard. The building has air handlers and unit ventilators served by the central plant. All exhaust fans operate. The data rooms have separate cooling and meet the district standard. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization.



HVAC (cont'd)

Classroom Building A-2 East

Observations: All air conditioning units meet the district standard. The building has air handlers and unit ventilators served by the central plant. All exhaust fans operate. The data rooms have separate cooling and meet the district standard. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization.

Classroom Building B

Observations: All air conditioning units meet the district standard. The building has air handlers and unit ventilators served by the central plant. Not all exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization. • Repair exhaust fans.

Classroom Building C

Observations: The building has unit ventilators served by the central plant. All exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls. • Replace or refurbish units at modernization.

Classroom Building D

Observations: The building has unit ventilators served by the central plant. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls. • Replace or refurbish units at modernization.

Classroom Building E

Observations: The building has unit ventilators served by the central plant. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls. • Replace or refurbish units at modernization.

Classroom Building F

Observations: All air conditioning units meet the district standard. The building has air handlers and unit ventilators served by the central plant. All exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization.

Classroom Building G

Observations: All air conditioning units meet the district standard. The building has air handlers served by the central

HVAC (cont'd)

plant. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • The building energy efficiency would benefit from adding full DDC controls, VFDs and CO2 sensors to the air handlers. • Replace or refurbish units at modernization.

East Gymnasium Building

Observations: The makeup air units meet the district standard. The wrestling room has an air handler and is served from the central plant. All exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • Replace or refurbish units at modernization. • The building energy efficiency would benefit from adding VFDs and CO2 sensors to the air handlers.

West Gymnasium Building

Observations: The makeup air units do not meet the district standard. The P.E. room has an air handler and is served from the central plant. All exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • Replace or refurbish units at modernization. • The building energy efficiency would benefit from adding VFDs and CO2 sensors to the air handlers.

Weight Training Building

Observations: The building has an air handler and unit ventilator that are served from the central plant. All exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 3-5 years. • Replace or refurbish units at modernization. • The building energy efficiency would benefit from adding VFDs and CO2 sensors to the air handlers.

Locker Building

Observations: All package units do not meet the district standard. The makeup air units do not meet the district standard. Some exhaust fans operate. The EMS is not full DDC.

Recommendations: This building is energy efficient. • No modernization is required before 1-2 years. • Replace units at modernization. • Several units appear to be at the end of their life. • Add full DDC controls for increased energy efficiency.

Snack Bar Building

Observations: The building is not air conditioned and does not meet district standards. All exhaust fans operate. The EMS is not full DDC.

Recommendations: Provide air conditioning. • No modernization is required before 1-2 years. • Add DDC controls if the building is air conditioned.

Central Plant Building

Observations: The chillers and boilers do not meet the district standard. The EMS is full DDC.

Recommendations: Replace units at modernization or sooner for increased energy efficiency. • No modernization is required before 3-5 years. • Add VFDS to pumps for increased energy efficiency.



HVAC (cont'd)

Portable Buildings

Observations: All heat pumps do not meet the district standard. All exhaust fans operate. The EMS is not full DDC.

Recommendations: All buildings are not energy efficient. • Energy use will benefit from the retrofit of low efficiency heat pumps to high efficiency units and DDC control. • No modernization is required before 1-2 years.

Pre-School Portable Buildings

Observations: All heat pumps do not meet the district standard. All exhaust fans operate. The EMS is not full DDC.

Recommendations: All buildings are not energy efficient. • Energy use will benefit from the retrofit of low efficiency heat pumps to high efficiency units and DDC control. • No modernization is required before 1-2 years.

Maintenance Buildings

Observations: All package units do not meet the district standard. All exhaust fans operate. The EMS is not full DDC.

Recommendations: All buildings are energy efficient. • Energy use will benefit from the retrofit of low efficiency units to high efficiency units and DDC control. • No modernization is required before 3-5 years.

Grounds Buildings

Observations: All heat pumps do not meet the district standard. All exhaust fans operate. The EMS is not full DDC.

Recommendations: All buildings are energy efficient. • Energy use will benefit from the retrofit of low efficiency heat pumps to high efficiency units and DDC control. • No modernization is required until after 10 years.

Softball Complex

Observations: All units meet the district standard. All exhaust fans operate. The EMS is not full DDC.

Recommendations: All buildings are energy efficient. • No modernization is required before 3-5 years.

Field House

Observations: All units do not meet the district standard. All exhaust fans operate.

Recommendations: No modernization is required before 6-10 years.

Varsity Baseball Field

Observations: The ticket booth has a wall air conditioner. There is no district standard on this unit.

Recommendations: No modernization is required until after 10 years.

HVAC

Observations: Areas of buildings are hot and others are cold.

Recommendations: Verify the correct amount of cooling required. • Replace coils in unit ventilators to larger size. • Rebalance water flow where required. • Commission the controls.

Electrical Engineering

Site Electrical Distribution System

Observation: The Buchanan site electrical distribution system is in fair condition and is compliant with current electrical codes.

Recommendation: No work recommended.

Site Electrical Lighting System

Observation: Parking lot lighting and exterior pathway lighting provides adequate coverage and is compliant with current electrical codes.

Recommendation: Buchanan is in need of surveillance lighting controls to provide adequate lighting coverage for the surveillance camera system.

Electrical Distribution System

Observation: The electrical distribution system for each building at Buchanan is in good condition and is compliant with current electrical codes.

Recommendation: No work recommended.

Electrical Lighting System

Observation: The majority of the electrical lighting system is in good condition with good coverage and is compliant with current electrical codes.

Recommendation: Gymnasium electrical lighting needs to be modernized.

Site Theatrical Lighting System

Observation: Buchanan does not currently have a theatrical lighting system.

Recommendation: No work recommended.

Site Sound Reinforcement System

Observation: The sound reinforcement system is in poor condition and is not compliant with District and industry standards.

Recommendation: Replace loudspeakers, wiring, controls, and electronics.



Low Voltage

Site Fire Alarm System

Observation: The Fire Alarm system is in good condition and is compliant with current electrical codes.

Recommendation: No work recommended.

Site Telephone System

Observation: The telephone system at Buchanan is in good condition and meets District standards.

Recommendation: No work recommended.

Site CATV System

Observation: The CATV system is in poor condition and does not meet District standards.

Recommendation: Replace CATV system.

Site Clock System

Observation: The current clock system at Buchanan does not meet District standards.

Recommendation: Replace clock system and devices.

Site Public Address System

Observation: The Buchanan public address system is in poor condition. Public Address cabling is in poor condition and is not compliant with current electrical codes.

Recommendation: Replace public address system, cabling, and devices.

Site Camera Surveillance System

Observation: The camera surveillance system is in fair condition and has adequate coverage. The surveillance electronics and cabling do not meet District standards.

Recommendation: Replace system electronics and cabling.

Site Audio Visual System

There are approximately (112) locations at Buchanan that do not have an audio visual system or the current system does not meet District standards. All locations have been pre-wired for an audio visual system.

Recommendation: Install projector, projection screen, loudspeaker, and audio visual controls for each location.

Data System

Observation: Most of the Buchanan data system is compliant with current District and industry standards. The data system extended to the portables is not current with District standards.

Recommendation: This site requires (1) environmentally controlled pedestals to contain data system electronics and terminations for portable buildings.



Summary by Discipline and Priority

Buchanan High School		1-2	3-5	6-10	TOTALS
Site		1,317,505	0	2,004,700	3,322,205
Architectural		0	14,643,356	0	14,643,356
Plumbing		6,400	93,238	963,663	1,063,300
HVAC		45,725	2,028,558	86,394	2,160,676
Electrical		34,000	126,000	349,000	509,000
Low Voltage		345,500	0	1,439,300	1,784,800
	Subtotals: \$	1,749,130	\$ 16,891,151	\$ 4,843,056	\$ 23,483,337
Contingency	5%	87,456	844,558	242,153	1,174,167
Haz Mat Abatement	5%	87,456	844,558	242,153	1,174,167
A/E Fees	10%	174,913	1,689,115	484,306	2,348,334
Testing and Inspections	5%	87,456	844,558	242,153	1,174,167
	Total: \$	2,186,412	\$ 21,113,939	\$ 6,053,820	\$ 29,354,171

An additional 25% was added to each project that includes the “fees” for testing, inspection, and architectural/engineering. These costs (are in addition to the project construction costs) will need to be considered when the District chooses to schedule the project.



Projects by Discipline and Sub-Categories

Buchanan High School	TOTALS
Site	
Site Plumbing Renovations	148,750
Site Drainage Improvements	29,013
Site Concrete, Ramps, Stairs, and ADA Improvements	496,961
Landscaping, Irrigation, and Play Field Improvements	1,637,600
Fencing and Gates Upgrades	29,250
Asphalt and Play Court Renovations	19,525
Transportation and Parking Lot Improvements	1,791,657
Architectural	
Repair and/or replace interior wall finishes	64,000
Repair and/or replace interior ceilings	189,063
Repair and/or Replace casework	181,270
Renovate Pools, Facilities, Decks and Equipment	3,281,250
Repair and/or replace floors and floor coverings	721,156
Paint interior and/or exterior walls	53,719
Expand and/or reconfigure Performing Arts Building	10,000,000
Expand and/or reconfigure Library Media Center building	612,500
Expand and/or reconfigure Administration building	1,225,000
ADA Required upgrades	295,363
Renovate toilet rooms	48,375
Repair and/or replace awnings / sunscreens	1,625,000
Repair and/or replace window, door and hardware systems	7,500
Plumbing	
Toilet Room Plumbing Replacement.	812,953
Classroom Plumbing Replacement	516,172
HVAC	
EMS Upgrade and/or Replacement	129,688
HVAC/Chiller Upgrade and/or Replacement	2,571,158
Electrical	
Building Lighting Efficiency Improvements	227,500
Building Power Distribution Energy Improvements	168,750
Exterior Lighting Efficiency Improvements	82,500
Exterior Power Distribution Energy Improvements	157,500



Projects by Discipline and Sub-Categories

Buchanan High School		TOTALS
Low Voltage		
Technology System Improvements		2,058,500
Exterior Lighting Efficiency Improvements		16,250
Fire Alarm/Life Safety		156,250
Total	\$	29,354,171



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Site							
Exterior Lighting Efficiency Improvements	16,250	0	0	●			●
Site Plumbing Renovations	148,750	0	0				
Fire Alarm/Life Safety	0	0	156,250	●			
Technology System Improvements	384,375	0	28,750	●			
Exterior Power Distribution Energy Improvements	0	157,500	0				
Exterior Lighting Efficiency Improvements	0	0	82,500	●			●
Classroom Plumbing Replacement	0	48,734	74,078			●	●
Toilet Room Plumbing Replacement.	1,938	16,531	229,516			●	●
Site Drainage Improvements	29,013	0	0				
Site Concrete, Ramps, Stairs, and ADA Improvements	464,436	0	32,525	●		●	
Transportation and Parking Lot Improvements	955,907	0	835,750				
Asphalt and Play Court Renovations	19,525	0	0			●	
Fencing and Gates Upgrades	29,250	0	0				
Landscaping, Irrigation, and Play Field Improvements	0	0	1,637,600	●	●	●	●
HVAC/Chiller Upgrade and/or Replacement	0	19,111	0	●			●
Subtotals	\$ 2,049,443	\$ 241,877	\$ 3,076,969				
Administration							
Technology System Improvements	0	0	276,875	●			
Expand and/or reconfigure Administration building	0	1,225,000	0				
Toilet Room Plumbing Replacement.	0	5,188	10,984			●	●
Repair and/or replace floors and floor coverings	0	625	0		●		
Repair and/or Replace casework	0	4,430	0			●	
Classroom Plumbing Replacement	0	0	13,953			●	●
Building Lighting Efficiency Improvements	0	0	22,500	●			●
Paint interior and/or exterior walls	0	4,219	0		●		
HVAC/Chiller Upgrade and/or Replacement	0	95,484	0	●			●
Building Power Distribution Energy Improvements	0	0	16,250				●
EMS Upgrade and/or Replacement	0	129,688	0				●
ADA Required upgrades	0	10,463	0			●	
Subtotals	\$ 0	\$ 1,475,095	\$ 340,563				

H&S Health and Safety
ADA Americans with Disability Act Compliance

DFM Deferred Maintenance
EE Energy Efficiency





Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Bldg A							
Repair and/or replace floors and floor coverings	0	356,250	0		•		
ADA Required upgrades	0	36,450	0			•	
Paint interior and/or exterior walls	0	2,813	0		•		
Repair and/or replace awnings / sunscreens	0	1,625,000	0				
Toilet Room Plumbing Replacement.	0	0	64,688			•	•
Classroom Plumbing Replacement	953	0	66,422			•	•
Building Lighting Efficiency Improvements	0	0	40,000	•			•
HVAC/Chiller Upgrade and/or Replacement	0	513,488	0	•			•
Repair and/or Replace casework	0	13,078	0			•	
Repair and/or replace interior wall finishes	0	20,000	0				
Repair and/or replace window, door and hardware systems	0	7,500	0				•
Technology System Improvements	0	0	224,000	•			
Building Power Distribution Energy Improvements	0	0	30,000				•
Subtotals	\$ 953	\$ 2,574,578	\$ 425,109				
Bldg B							
Toilet Room Plumbing Replacement.	2,250	0	26,859			•	•
Classroom Plumbing Replacement	0	953	46,000			•	•
Building Power Distribution Energy Improvements	0	0	7,500				•
Repair and/or replace floors and floor coverings	0	47,500	0		•		
Building Lighting Efficiency Improvements	0	0	10,000	•			•
Technology System Improvements	0	0	56,000	•			
Repair and/or Replace casework	0	675	0			•	
ADA Required upgrades	0	6,750	0			•	
HVAC/Chiller Upgrade and/or Replacement	0	129,353	0	•			•
Subtotals	\$ 2,250	\$ 185,231	\$ 146,359				
Bldg C							
Classroom Plumbing Replacement	0	0	10,141			•	•
Toilet Room Plumbing Replacement.	953	0	14,453			•	•
Technology System Improvements	0	0	56,000	•			
HVAC/Chiller Upgrade and/or Replacement	0	202,150	0	•			•
ADA Required upgrades	0	4,050	0			•	
Repair and/or Replace casework	0	48,750	0			•	
Paint interior and/or exterior walls	0	3,656	0		•		
Building Lighting Efficiency Improvements	0	0	10,000	•			•
Building Power Distribution Energy Improvements	0	0	7,500				•
Subtotals	\$ 953	\$ 258,606	\$ 98,094				



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Bldg D							
Building Lighting Efficiency Improvements	0	0	10,000	●			●
Building Power Distribution Energy Improvements	0	0	7,500				●
Technology System Improvements	0	0	56,000	●			
Repair and/or Replace casework	0	37,500	0			●	
HVAC/Chiller Upgrade and/or Replacement	0	147,500	0	●			●
Subtotals	\$ 0	\$ 185,000	\$ 73,500				
Bldg E							
Building Power Distribution Energy Improvements	0	0	7,500				●
ADA Required upgrades	0	6,750	0			●	
Paint interior and/or exterior walls	0	1,125	0		●		
Repair and/or Replace casework	0	4,219	0			●	
Repair and/or replace floors and floor coverings	0	38,438	0		●		
Building Lighting Efficiency Improvements	0	0	10,000	●			●
Classroom Plumbing Replacement	0	0	17,766			●	●
Technology System Improvements	0	0	56,000	●			
HVAC/Chiller Upgrade and/or Replacement	0	47,670	0	●			●
Subtotals	\$ 0	\$ 98,202	\$ 91,266				
Bldg F							
Classroom Plumbing Replacement	0	22,688	7,703			●	●
Building Power Distribution Energy Improvements	0	0	7,500				●
Technology System Improvements	0	0	56,000	●			
HVAC/Chiller Upgrade and/or Replacement	0	165,814	0	●			●
ADA Required upgrades	0	8,438	0			●	
Paint interior and/or exterior walls	0	5,625	0		●		
Building Lighting Efficiency Improvements	0	0	10,000	●			●
Repair and/or replace floors and floor coverings	0	15,838	0		●		
Repair and/or Replace casework	0	29,156	0			●	
Subtotals	\$ 0	\$ 247,558	\$ 81,203				



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Bldg G							
Paint interior and/or exterior walls	0	5,625	0		•		
Classroom Plumbing Replacement	0	0	17,438			•	•
Technology System Improvements	0	0	56,000	•			
Expand and/or reconfigure Performing Arts Building	0	10,000,000	0				
Repair and/or Replace casework	0	1,434	0			•	
Repair and/or replace floors and floor coverings	0	45,406	0		•		
HVAC/Chiller Upgrade and/or Replacement	0	249,516	0	•			•
Building Lighting Efficiency Improvements	0	0	10,000	•			•
Building Power Distribution Energy Improvements	0	0	7,500				•
ADA Required upgrades	0	8,438	0			•	
Subtotals	\$ 0	\$ 10,310,419	\$ 90,938				
Central Plant							
HVAC/Chiller Upgrade and/or Replacement	0	210,000	0	•			•
Subtotals	\$ 0	\$ 210,000	\$ 0				
Field House							
Toilet Room Plumbing Replacement.	0	0	69,563			•	•
Classroom Plumbing Replacement	953	0	20,109			•	•
HVAC/Chiller Upgrade and/or Replacement	0	9,311	81,681	•			•
Subtotals	\$ 953	\$ 9,311	\$ 171,353				
Large Gym							
Building Lighting Efficiency Improvements	10,000	0	0	•			•
ADA Required upgrades	0	10,500	0			•	
Building Power Distribution Energy Improvements	0	0	7,500				•
Technology System Improvements	0	0	56,000	•			
HVAC/Chiller Upgrade and/or Replacement	15,438	77,063	0	•			•
Repair and/or replace floors and floor coverings	0	55,000	0		•		
Repair and/or Replace casework	0	2,025	0			•	
Paint interior and/or exterior walls	0	10,125	0		•		
Subtotals	\$ 25,438	\$ 154,713	\$ 63,500				



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Library Media Center							
Technology System Improvements	0	0	349,125	•			
Building Power Distribution Energy Improvements	0	0	23,750				•
Repair and/or replace floors and floor coverings	0	19,703	0		•		
HVAC/Chiller Upgrade and/or Replacement	0	109,941	0	•			•
Classroom Plumbing Replacement	0	953	38,813			•	•
Toilet Room Plumbing Replacement.	0	0	159,156			•	•
ADA Required upgrades	0	7,763	0			•	
Expand and/or reconfigure Library Media Center building	0	612,500	0				
Building Lighting Efficiency Improvements	0	0	32,500	•			•
Repair and/or Replace casework	0	26,250	0			•	
Repair and/or replace interior wall finishes	0	8,000	0				
Subtotals	\$ 0	\$ 785,109	\$ 603,344				
Lockers							
Building Lighting Efficiency Improvements	0	0	10,000	•			•
Repair and/or replace interior ceilings	0	43,750	0				
Repair and/or replace floors and floor coverings	0	16,531	0		•		
Repair and/or Replace casework	0	11,813	0			•	
Building Power Distribution Energy Improvements	0	0	7,500				•
Paint interior and/or exterior walls	0	9,844	0		•		
ADA Required upgrades	0	1,350	0			•	
Classroom Plumbing Replacement	0	0	21,844			•	•
Technology System Improvements	0	0	56,000	•			
HVAC/Chiller Upgrade and/or Replacement	0	139,639	0	•			•
Toilet Room Plumbing Replacement.	0	5,188	64,078			•	•
Subtotals	\$ 0	\$ 228,114	\$ 159,422				
Maintenance							
Repair and/or replace floors and floor coverings	0	8,875	0		•		
Repair and/or Replace casework	0	1,013	0			•	
Classroom Plumbing Replacement	0	4,156	9,797			•	•
Toilet Room Plumbing Replacement.	0	0	18,781			•	•
Renovate toilet rooms	0	48,375	0				
HVAC/Chiller Upgrade and/or Replacement	0	33,498	0	•			•
ADA Required upgrades	0	2,363	0			•	
Subtotals	\$ 0	\$ 98,280	\$ 28,578				



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Multipurpose							
Building Lighting Efficiency Improvements	22,500	0	0	•			•
Building Power Distribution Energy Improvements	0	0	16,250				•
Technology System Improvements	0	0	179,375	•			
Repair and/or replace floors and floor coverings	0	63,375	0		•		
HVAC/Chiller Upgrade and/or Replacement	0	160,375	9,311	•			•
Toilet Room Plumbing Replacement.	0	953	57,047			•	•
ADA Required upgrades	0	8,100	0			•	
Paint interior and/or exterior walls	0	10,688	0		•		
Repair and/or Replace casework	0	928	0			•	
Repair and/or replace interior ceilings	0	145,313	0				
Classroom Plumbing Replacement	0	6,859	31,578			•	•
Subtotals	\$ 22,500	\$ 396,591	\$ 293,561				
Pool Complex							
Renovate Pools, Facilities, Decks and Equipment	0	3,281,250	0				
Subtotals	\$ 0	\$ 3,281,250	\$ 0				
Portables							
ADA Required upgrades	0	675	0			•	
Repair and/or replace floors and floor coverings	0	53,616	0		•		
Repair and/or replace interior wall finishes	0	36,000	0				
Toilet Room Plumbing Replacement.	0	0	34,031			•	•
Building Power Distribution Energy Improvements	0	0	7,500				•
Technology System Improvements	31,250	0	24,750	•			
HVAC/Chiller Upgrade and/or Replacement	18,563	14,481	17,000	•			•
Building Lighting Efficiency Improvements	0	0	10,000	•			•
Classroom Plumbing Replacement	0	0	16,391			•	•
Subtotals	\$ 49,813	\$ 104,772	\$ 109,672				
Small Gym							
Technology System Improvements	0	0	56,000	•			
Classroom Plumbing Replacement	953	4,344	15,281			•	•
Building Power Distribution Energy Improvements	0	0	7,500				•
Building Lighting Efficiency Improvements	10,000	0	0	•			•
HVAC/Chiller Upgrade and/or Replacement	15,438	59,525	0	•			•
Subtotals	\$ 26,391	\$ 63,869	\$ 78,781				



Summary by Location, Priority and Special Categories

Buchanan High School	1-2	3-5	6-10	H&S	DFM	ADA	EE
Snack Bar							
Toilet Room Plumbing Replacement.	0	0	30,797			•	•
Classroom Plumbing Replacement	0	0	17,313			•	•
Technology System Improvements	0	0	56,000	•			
Building Power Distribution Energy Improvements	0	0	7,500				•
Building Lighting Efficiency Improvements	0	0	10,000	•			•
ADA Required upgrades	0	183,275	0			•	
HVAC/Chiller Upgrade and/or Replacement	7,719	22,091	0	•			•
Subtotals	\$ 7,719	\$ 205,366	\$ 121,609				

H&S Health and Safety
ADA Americans with Disability Act Compliance

DFM Deferred Maintenance
EE Energy Efficiency



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