CAPITAL PLANNING PROCESS



Davis School District

PREPARED BY

District Budget and Planning Department
District Facilities Administration Department

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INTRODUCTION

Under the direction of the Davis School District Board of Education, the Davis School District oversees 9.5 million square feet of facilities. Through careful planning and oversight, these "world class" facilities provide outstanding working conditions for teachers and staff and an excellent learning environment for students. The District enjoys excellent test scores and one of the highest graduation rates in the country. Our researched-based design of new schools and ongoing renovations greatly add to the learning success of our students. The District carefully plans and carries out ongoing maintenance, renovations, additions, and new construction through a comprehensive capital planning process. The purpose of this "Capital Plan" document is to outline and describe our planning process.

Davis School District provides an environment where learning comes first. Students master essential learning skills, demonstrate civic responsibility, prepare for post-secondary education and careers, and engage in positive personal development. Parents are invested in their student's education. Employees recognize the value of their individual contributions and commit to excellence. The community supports the educational process.

Davis School District Vision Statement

LEARNING FIRST!

DAVIS SCHOOL DISTRICT

The Davis School District was established in 1911 and shares common boundaries with Davis County. Davis County is located east of the Great Salt Lake and north of Salt Lake County / Salt Lake City. Davis County comprises an area of 268 square miles, with over 300,000 residents. The growth in population has been 28% over the past 10 years. With that growth, the County has moved from its traditional agricultural dependency, to an interlocking network of suburban communities within close proximity to downtown Salt Lake City (to the South) and Ogden City (to the North). As a suburban area, Davis County does not have a large commercial / industrial tax base to support new school construction.

Even though Davis County is Utah's smallest county in land area, the District's enrollment is the second largest in the state. The District operates 60 elementary schools, 16 junior high schools, 8 high schools and 4 alternative schools.

CAPITAL PLANNING PROCESS OVERVIEW

An integrated and comprehensive planning process is required to anticipate and provide for new schools, replace aging schools, provide additions and/or renovations at existing schools, and to insure the maintenance of existing schools. The Facility Management Group integrates the staff functions of planning, finance, construction, maintenance, and technology, with additional input and participation provided by School Directors, Transportation, Nutrition Services, Custodial Services, and Community Relations departments. The Administrator of Facilities Administration chairs the Facility Management Group. The Superintendency provides oversight of this process.

The process has three main components: 1) obtaining, managing, and accounting for the capital funds, 2) identification and prioritization of capital facility needs, and 3) project design, bid, and completion of facilities.

A detailed discussion of the Facility Management Group and the process used to authorize capital projects may be found beginning on page 11.

FINANCING PROCESS

The method of obtaining capital funding for a school district in Utah is complicated. While the vast majority of capital funding comes through bonding, there are other sources of capital which are additive to bonding. Additional ongoing overhead costs associated with opening and operating a school must also be considered.

Sources of Capital:

Financing for school district capital projects currently comes from two sources:

- The Capital Outlay Property Tax Rate
- General Obligation School Building Bonds

The district uses the proceeds from the Capital Outlay property tax rate for the maintenance of buildings and small capital projects. The School Building Bonds are used for major building projects such as new schools, additions to current buildings, major renovations, or maintenance of existing facilities.

The current capital outlay tax rate is not large enough to generate sufficient funding to pay for new construction projects on a "pay as you go" basis. Much like a home mortgage, General Obligation School Building Bonds allow the District to borrow money incrementally and pay back both the principal and the interest over an extended period of time. These payments are funded through a General Obligation Debt tax rate. The tax rate required to pay debt service on General Obligation Bonds is lower than "pay as you go" financing because debt payments are spread out over 15 to 20 years. This method does, however, increase the District's total cost of capital projects because of interest expense that would not be incurred using the "pay as you go" basis.

Bonding Process:

The first step in forecasting debt capacity is to predict the total assessed taxable value in the county for each year during the authorization time frame. Each year, with assistance of professional advisors, the district estimates how much growth or decline in total taxable value will occur during the authorized time frame. This estimate is critical as changes in assessed valuation directly affect the amount of bonds that can be issued.

Next, the District examines its current debt service structure compared to the assessed value estimates. This figure determines the tax rate necessary to generate sufficient funding to pay the current debt over its life. The difference between this calculated rate and the current General Obligation rate represents additional debt-incurring capacity available within the current tax rate structure. The Utah State Constitution also imposes a legal debt limit on taxing entities of 4% of the fair market value of all taxable property within the county. This ceiling represents the maximum debt-incurring capacity of the District.

Finally, the District must take the prioritized list of construction needs and compare it with its capacity for incurring additional debt. If there is enough capacity within the current tax rate, the District would seek additional bonding authorization from the voters, with no tax rate increase. If the dollar amount of construction needs cannot be financed within the current tax rate structure, the District would then ask voters to approve a new bonding authorization, which would include a tax rate increase.

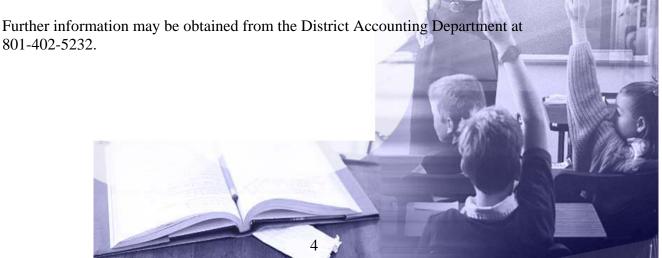
As the District contemplates a new bond authorization, it must balance the needs for classroom space and materials for students with the tax burden placed upon taxpayers by incurring debt.

Voter Authorization: To sell bonds and incur debt, the District must have the authorization of a simple majority of Davis County registered voters. These elections must be held in conjunction with a primary or general election in the County. Voters authorize a total amount of bonds the District can issue. The patrons of Davis County have generously supported every bond election to date.

Time-Phased Sale of Bonds: After a bond authorization is approved by voters, the District is then allowed ten years to issue (sell on the financial market) the bonds up to the limit approved in the authorization. Bonds can be issued for any amount and as often as needed for support of construction timelines. How much and how often the District issues bonds is once again a balance of the construction needs of the District and the tax burden placed on taxpayers.

School Operating Costs: New schools and major additions to existing schools have overhead costs which do not come out of capital funding but are increases to the District's annual operating budget. When a new school is constructed, the District anticipates increased operating costs including office administration, custodial, maintenance, insurance, and utilities. These costs are recalculated each year and must be incorporated into the operating budget of the fiscal year when the school is opened. Teachers and associated classroom costs follow the students and simply transfer from existing schools.

When additions are made to existing facilities, the changes to the regular operating budgets are not as dramatic, but must also be calculated and incorporated into the general fund budget. When renovations are made to existing buildings, system updates often reduce operating costs to a level similar to new facilities, e.g., maintenance and utility expenses.



CAPITAL REQUIREMENTS

Capital funds are used to purchase land, construct new facilities or additions to existing facilities, replace aging facilities, and renovate and maintain existing facilities. The District currently has 9.5 million square feet of buildings and almost 1,400 acres of land in operation. Continued investment in current infrastructure is critical and requires more than one third of the available capital funds. These lesser known requirements include:

- Access control (Card identification for security and entry)
- Americans with Disabilities Act (ADA) compliance
- Asphalt for parking, roadways and playgrounds
- Auditorium upgrades for curtains, sound, seating, and rigging
- Bleacher upgrades, interior and exterior
- Ceiling tile replacement
- Chiller upgrades / replacement
- Closed circuit television for security
- Computer lab construction
- Data line upgrades for latest technology
- Electrical upgrades for new service and energy saving programs
- Fire alarms
- Floor coverings
- Furniture upgrades for cafeteria and miscellaneous settings
- Heating, ventilating, air conditioning control (HVAC), and system upgrades
- Kitchen upgrades
- Lighting upgrades
- Portable classroom construction, updates and replacements
- Rebuild and renovation projects
- Re-roofing
- Restroom / locker room upgrades
- Site improvements, including elementary big toy surface replacement
- Storage facilities
- Uninterrupted power source (UPS) for schools
- Waterline replacements
- Wireless access for computers

FACILITY ASSESSMENT

The ability to accurately prioritize projects in existing buildings requires a detailed, accurate, and continually updated assessment of the District's facilities.

The District has developed a unique Facility Assessment Program that provides an up-to-date "snapshot" of every facility in the district. The program is maintained by the Environmental Maintenance Services (EMS) Department. The effort to keep all data updated is extremely time intensive and essential. The Facility Assessment Program generates an assessment document for each facility (Appendix A) and includes:

- Summary Sheet:
 - Building information, site information, portable classroom history, project/renovation historical summary
- Deficiency Sheet: Site, Risk Management, Educational Programs,
 HVAC/Plumbing, Electrical/Energy Communications/Technology Issues
- ADA Accommodation Plan
- Asphalt Condition Plan
- Building Age Plan (by additions)
- Data Sheet: Site, Architectural, Mechanical, and Electrical Systems
- Emergency Protection Plan
- Exterior Lighting Plan
- Floor Plans
- Site Plan
- Site Surfaces Plan
- Square Footage Plan
- Roof Plan (indicating age of the roof's sections)
- Utility Cost Data Sheet
- Utility Plan

These documents serve as powerful information tools for a wide variety of interested parties, including school administrators, contractors, and emergency response personnel. In addition, they serve as valuable planning documents. Deficiency lists and critical data are reviewed as part of the capital project list compilation process.

Further information may be obtained from the Environmental Maintenance Services Department at 801-402-7400.

ENROLLMENT & PROJECT FORECASTING

Construction of new schools or additions at existing schools makes up approximately twothirds of the total capital expenditures. Most of these projects are directly related to changing student enrollments. The District tracks and forecasts enrollments in order to provide information and recommendations for decisions by the Superintendency and the School Board.

Davis County experiences two components of growth in school-age children: in-migrations and births. When our economy is stronger than surrounding states, the in-migration contributes to growth in student population. Out-migration obviously has the reverse effect. The second and largest contributor is births. These births translate to kindergarten students five years later - with the number adjusted to reflect a small increase or decrease depending on anticipated migration patterns or students diverted to charter schools. Any newly approved charter schools, or approval for growth at existing charter schools, must be factored into enrollment projections.

Historical enrollment data is kept for each school (Appendix B), including:

- Enrollment by grade over the past several years
- In- or out-migration patterns
- Anticipated enrollment changes
- Building capacity and number of portable classrooms

Leading indicators help predict rising enrollment changes. Building permits issued by a city for a development are short range (4-6 month) indicators. A city's approval of a development provides a longer (1 to 3 years) lead time. A long term constraint on construction is the amount of raw land still available and suitable for residential construction. Davis County projects that the County's raw land will be consumed, or "built out," by 2030-2040.

The District uses a sophisticated computer-based Geographical Information System (GIS) to track housing developments and student residence information. The GIS program uses the land and parcel data from cities and the county, and overlays the District's student information. This data, along with aerial photographs, provides a visual portrayal of current student locations and growth indicators. The GIS program can also show the time phasing of recent growth in an area. This tool is invaluable in the process of establishing new school boundaries, which accompany new school openings.

This same information is used to annually forecast and prioritize projects for ensuing construction cycles. In prioritizing projects, schools and areas are assessed for growth, overcrowding in existing area schools, options for accommodating the growth with portable classrooms, year-round scheduling, or boundary changes. The Facility Management Group reviews the proposal for the next year's project list and beyond. The most recent briefing to the School Board on future growth is at Appendix C.

Further information may be obtained from the Planning Department at 801-402-5202.

BOND PROJECT LIST DEVELOPMENT

The initial assessment of which projects should be considered and prioritized is done by the Bond Group - a subset of the Facility Management Group. The Bond Group is a small work group involving: the Superintendency, School Directors, Director of Accounting, Budget Officer, Administrator of Technology Services, Administrator of Facilities Management, Director of Architectural and Construction Services and the Director of Environmental Maintenance Services.

Shortly after patrons approve a bond for capital projects, initial planning for the next bond begins. Two years prior to this bond's anticipated election, the process accelerates and, in order to accurately inform the public and garner their support, the bond project list goes through considerable review and refinement.

Unconstrained List:

The initial unconstrained list is compiled by those members of the Bond Group who deal with the execution of the projects (Facilities, Construction, Maintenance, Technology, and Planning).

The Planning Department maintains a working document projecting, in five year increments, possible major construction projects for the next twenty years. This list includes new schools and additions, as well as rebuilds of aging buildings. The next five year increment is updated and becomes the starting point for the major project list. Funding for land purchases is also included. A small contingency fund is contemplated to provide for unforeseen requirements.

Concurrently, the list of recommended improvements at existing facilities begins to emerge. It is far easier to anticipate the cost for a few new schools, than to generate cost data for upgrades and maintenance. The Facilities Assessment Report is the starting point for more than 30 categories of recommended funding. Projects which were recommended, but not funded in the previous bond, are re-evaluated and prioritized against newly identified projects.

The two categories of major projects and upgrades and/or maintenance, are merged into a single worksheet and then cost magnitude begins to emerge. The total price of the unconstrained list is often twice the amount of the eventual final funding.

Constrained List:

The District's Financial Group (Business Administrator, Director of Accounting, and Budget Officer) then begins discussions with an outside bond advisor to assess the District's debt capacity against the anticipated increase in taxable value and tax rates. From this forecasting, funding scenarios are developed which project the available

funds, both within and above the current tax rate. Assumptions about the inflation rates of construction are also forecast. Multiple project lists may be developed to match each of the amounts identified in the funding scenarios.

To meet the anticipated funding amount, projects on the list are pared down by either being deferred to the next bond, reducing the scope, or elimination. The smaller project categories may be funded at a greatly reduced level. In many categories, the amount is listed as "block grant" rather than listing specific projects to be funded. Then as many projects as possible are accomplished as funds permit in a year. The projects are prioritized and updated annually by the Environmental Maintenance Department's personnel. Those not completed are rolled into the next bond as a priority in the same category.

The constraints on any year's capital projects include; 1) funding, 2) the ability of the Construction Department to oversee contracts and construction, and 3) the Environmental Maintenance Department's capacity for in-house completion of small capital projects. Cash flow is the largest constraint. As with a household budget, each year's expenditures are constrained by the cash flow from the various sources of capital.

Time Phasing By Year:

The projects must be spread out so that funding matches the anticipated revenue from the sale of bonds. Often major projects are listed in the year needed and smaller projects are moved around to balance the year's total revenue capacity. There may be five or six new elementary schools listed. Generally, only the location of the school(s) scheduled in the first or second year of the bond are listed. Locations are not specified in the out-years to permit flexibility in responding to emerging growth.

Each of the major projects must be indexed for the rate of inflation compounded to the year the project is anticipated. This was not as critical in previous years, but as an example, from 2003 to 2007 construction costs per square foot doubled!

In the process of gathering support for a bond, the projects are shown to the public. Usually there is no time frame specified for most projects. Yet, it is difficult for schools and community councils to understand why their specific projects are not started in the first year of the bond.

Annual Update:

In August - October of each year, the Capital Group reviews, updates, and finalizes the project list for the following fiscal year. During this process, considerable time is spent verifying and updating project costs. Projects may be moved or reduced to balance costs and funding. The recommended annual project list is briefed to the

entire Facility Management Group for approval or modification. The Board is provided the resulting information in their annual construction update, as they have oversight of the Capital Plan.

The development and execution of the capital project list is centered on the availability of funds.

Further information may be obtained from the Facilities Management and Planning Department at 801-402-5275.



CAPITAL AUTHORIZATION PROCESS

In the Facility Management Group, all projections, requirements, requests, and funding information come together for decisions or recommendations to the Board.

Facility Management Group:

The purpose of the Facility Management Group is to evaluate capital requirements for authorization, prioritization, and funding in a responsible and equitable manner. The group is comprised of individuals representing the Superintendency, School Directors, Facilities, Architecture, Maintenance, Planning, Finance, Purchasing, Information Technology, Transportation, Nutrition, Warehousing and Custodial. The group meets once a month, or as necessary, to support the District's capital needs.

The Facility Management Group is charged with completion of projects on the capital project list, without exceeding the total capital authorization.

The capital project list is a dynamic document that must have sufficient flexibility to respond to unforeseen requests. Not all projects can be anticipated for inclusion. A school's principal or community council may initiate a request for a project not included on the capital project list. All facilities improvements / projects must come through the Facilities Administration offices for code review and approval – no matter the size of the project. Request forms are found on the Facilities Administration web site. Similarly, a request may come from the Maintenance Department, or another member of the Facility Management Group. All unforeseen requests go through the same prioritization and funding scrutiny. Approval cannot be granted unless a funding source is identified. In a period of construction inflation and with only a small contingency amount, not all requests can be funded. Some requests are either denied or deferred until the next bond project list. Discussions and decisions by the Facility Management Group are recorded in the minutes and captured in the comments of the cashflow projection document.

Once the Facility Management Group approves a project, the Architectural / Construction Services or Environmental Maintenance Services procures the necessary professionals to prepare bidding documents. Proposals from architectural and engineering (A/E) firms, as well as construction contracts, are approved by the Board.

Project Information Sheet

For each project, the Facility Management Group reviews the architect's construction cost estimates against the amount allocated in the capital project list. If the cost estimate exceeds the amount allocated, the Facility Management Group will either send the project back for scope review, or make a decision on allocating additional funding. There cannot be an increase in funding without an identified and comparable reduction in the contingency fund, another project, or account.

The sample Project Information Sheet (Appendix D) summarizes the costs encountered on a recently completed elementary school. The top section of the sheet contains general information on the project such as the name and address of the architect and contractor; lists the square footage and cost per square foot of the project. It has the bid amount of the project and the total contract amount with change orders. It tracks several important dates such as, Capital Planning Committee approval, Board of Education approval, Bid Opening, Notice to Proceed, and Substantial Completion dates.

The column titled "Preliminary Estimate" is the initial estimate generated at the inception of the project. The total of this column will match the amount that was listed on the bond list. After several months of design and after the project has been bid, the column titled "Projected Costs" modifies the "Preliminary Estimate" column. This column is a more refined estimate and in most cases will total less than the "Preliminary Estimate" column. This column's total may be larger than the "Preliminary Estimate" column due to inflation or scope creep. If this is the case, the overage is approved by the Capital Planning Committee.

Finally, the "Amount Paid" column tracks the expenses of the project as they are accrued. Each invoice or pay request that is approved for payment is figured in and the "Percent Complete" column provides a quick dashboard input of the financial status of the project.

Cost Components of a New School:

There are costs associated with a new school beyond those associated with brick and mortar construction. Care must be taken when trying to compare building costs. What is being included and what is not? In calculating the cost of a building are site costs, property purchase, design costs, or furniture included? Regardless of how you total the costs of a construction project, most of the following list of expenses will be incurred:

- Architect/Engineer Fees Usually a percentage of the construction cost. This is paid to the architect who then will hire a structural, mechanical, and electrical engineer to provide plans and specifications for the building.
- Geotechnical Engineering This is to test the soil at the building site to design the footings and foundations.
- Survey and Civil Engineering Locates the property corners and identifies the topography so that rain water and site utilities are handled properly.
- Construction Testing An independent testing company that takes soil, concrete, and masonry tests to ensure that the designed strengths are achieved.

- Direct Purchases Davis School District contracts directly with a carpet and blind supplier to provide these materials to the building at a significant savings over what a general contractor could provide. Other direct purchase expenses include utility hook-ups, impact/connection fees, and asbestos abatement
- Furniture, Fixtures, and Equipment This is what it takes to turn a building into a school. It includes everything needed to operate such as, desks, chairs, text books, computers, printers, copiers, telephones, office, and custodial supplies.
- Contingency It is inevitable that changes will be made during the course of construction whether by un-foreseen conditions, or a change in scope. The Davis School District carries a 3% change order contingency for new construction projects and a 5% contingency for remodel projects.
- Printing Costs for Plans and Specifications
- Utility Connection and Impact Fees

All of these items are needed to open and operate a new school and total between 12 and 15 percent of the total construction cost. It is also a good idea to carry a 3 to 5 percent contingency for construction change orders.

The only other cost associated with the cost of a building would be the price paid for the purchase of the land it is sited on. Davis School District land banks parcels of land years in advance so this cost is not normally tracked as part of the total cost of a building.

Donor Projects:

Occasionally a member of one of the District's school communities desires to contribute money or "in kind" volunteer labor and materials to a project. The proposed project may be a priority for that school, however may not have been included in the District's project list. Such projects have included air conditioning for a Choral Room, Renovation of a Baseball Diamond including a press box, dugouts and restrooms, and artificial turf for a sports field. All "donor project" requests must be submitted to the Facility Management Group for review. The application (Form at Appendix E) must be completed and have support of the School Director and appropriate Curriculum director.

Board Briefings and Approvals:

Once the Capital group has approved a project, it is presented to the Board of Education at the time of A/E or Contractor selection and then for approval of bids. Twice each year, the Facilities Management and Planning Department present an update to the Board of Education informing them of project progress, future growth/planning, budget update information, and tour. In January / February upcoming projects are briefed. In August, shortly before the start of school, the Board is taken on a tour of projects nearing completion.

Should a project bid substantially over-budget, the Board is apprised of the situation and informed of the funding source and impact on the overall capital project list. Every effort is made to keep projects on budget, but occasionally, scope increases and inflation occur, resulting in bids over-budget. In this case, the Facility Department Group (Administrator of Facilities, Director of Architectural/Construction Services, and Director of Environmental Maintenance), architects and contractors, including subcontractors, meet to conduct a "second" value engineering session, in an attempt to lower costs within budget. Following board approval, notice to proceed is given to the appropriate entity.

Further information may be obtained from the Facilities Management and Planning Department at 801-402-5275.



NEW CONSTRUCTION PROCESS

Once a new school or addition has been approved, the scope of the project is determined. In this process, the size, special requirements, and budget of the project are evaluated. If it is determined that a prototype plan works (Appendix F), the architect is approved by the Facility Management Group, as selected by the Professional Services Committee. If the project must be designed from "scratch," the Professional Services Selection Group begins the architect selection process. The Professional Service Selection Group is also responsible for contractor selection.

Professional Services Group:

The Professional Services Selection Group is comprised of three fixed members: the chairperson (a non-district employee), the Administrator of Facilities Management and Planning, and the Director of Architectural/Construction Services. The Group is supplemented with additional members, as a particular project warrants, such as city administrators or planners, principals, purchasing employees, and others.

Architect Selection:

Under the direction of the Architectural Services Director, the Purchasing Department advertises a request for proposal. The Professional Services Selection Group convenes and reviews all submittals and rates them using a predetermined questionnaire that is provided as part of the request for proposal. If the project is large, the submitting firms will be asked to make a formal presentation to the Professional Services Selection Group. Scores are entered into a matrix and generally the highest scoring architectural firm is recommended to the Board of Education for approval.

Contractor Selection:

Contractor selection process is similar to the architect selection. Requests for proposal are advertised, submittals reviewed, interviews conducted (for large projects) and firms ranked. The Professional Services Selection Group has the prerogative of selecting a firm which may not have the highest score, if their selection is deemed to be in the district's best interest. During the design phase, the contractor selection process is determined - either "low bid" or "Construction Manager/General Contractor" (CM/GC).

Low bid means that the District receives bids from qualified contractors. Construction documents are available to all qualifying bidders; those that meet certain bonding and insurance qualifications and who submit bids at a specified time. The District then may select the lowest bidder, if fully qualified for a project of that scope.

If the CM/GC method is decided upon, the Professional Services Selection Group begins working, during the design phase for the selection of a Construction Manager. The CM works as part of the design team and offers expertise for budgets, means, and methods of construction to ensure the project stays on budget and on time. When construction documents are complete, the CM solicits bids. If bidding for work is to be self performed, their bids must be sealed prior to opening other competing bids. Once the bids have been opened and secured, the CM becomes the General Contractor overseeing the construction of the project.

Plans Review / Value Engineering:

To help ensure that the District is getting the best value for the money, all building plans are thoroughly reviewed. Before any project is placed out to bid, a plan review meeting is held with representatives from several District departments: Maintenance, Custodial, Nutrition Services, Transportation, Risk Management, Information Technology, etc. The goal of this meeting is to review the plans and specifications for completeness and compatibility with existing District systems and standards.

When a new building prototype is created, it undergoes a value engineering process. This process involves hiring an independent set of design consultants, not involved with the design, to review and recommend to the District alternate solutions or options, as well as the costs associated with each choice.

Each building project plan is reviewed by the State Fire Marshal's Office for compliance to the International Fire and Life Safety codes. Plans are also reviewed by a Certified Plans Examiner for compliance to the International Building Code.

Life Cycle Cost Considerations:

Buildings must be durable, maintainable, yet economical, and designed and built to last 60 to 75 years. Our buildings are built with quality materials that are relatively inexpensive, but are also maintainable. Thousands of children spend countless hours in our buildings, which causes considerable wear and tear to the facilities. The District has been able to construct quality facilities for a cost-per-square-foot well below the national average.

Overall Time Lines:

Many factors affect the length of the construction process such as, cash flow, current work load in the construction industry, and complexity and phasing requirements of a particular project. The following is the recommended time-line for construction projects:

Scoping of Project	1 to 2 months
Architect Selection	up to 2 months
Design Phase	3 to 12 months
Contractor Selection	1 to 2 months
Bidding	1 month

Construction Process:

Elementary School 12 to 16 months
Junior High School 14 to 16 months
High School 24 to 30 months
District Move In and Set Up 2 to 4 months

Further information may be obtained from the Architectural/Construction Services Department at 801-402-5190.



TECHNOLOGY

The world that we are preparing students for has changed dramatically over the past decade. Whether in public education, higher education, or the workplace, the need to be able to use technology is increasing. Providing an infrastructure that supports 21st century teaching and learning is just one of the responsibilities of the Technology Services Group.

Technology

Rapidly changing technology compels us to create teaching and learning spaces that are functional for today and flexible enough to meet future needs. Predicting the future implementation of building automation, educational content presentation, and connectivity to the outside world via the Internet is extremely challenging. The never ending challenge of keeping up with current technology can be quite expensive. As new schools are constructed, especially secondary schools with a longer construction times, we are continually striving to create facilities that will support future technologies.

Trying to provide equivalent opportunities for all students, whether they attend one of our older elementary schools or our newest high school has taught us valuable lessons regarding constructing new schools that support changing technology. Working with visionary architects and electrical engineers, we have designed schools with modular technology infrastructures. Adding additional access to the wide area network or increased speed is no longer the laborious process that we face in older buildings.

New Construction and Technology

New schools are designed to provide opportunities for computing throughout the entire building. Along with the need for designated computer labs, we now provide additional access through the use of computers in traditional classrooms in mini-lab configurations. Mini-labs are often designed with 3-10 computers that can be used for independent and/or group research, as well as to enrich learning as directed by the classroom teacher. New schools are also being configured with wireless "hot spots" where students and faculty members, using their own equipment, can safely access the network to do independent work. A lesson learned from older buildings is the importance of making classrooms easy to reconfigure based on changing curriculum and/or teaching styles. New classrooms have the ability to support a computer for each student in varying configurations. New classrooms are also equipped with interactive white boards, projectors, advanced sound systems, and multimedia capability, designed to be more intuitive for teachers. Quality presentation devices, i.e., interactive whiteboards, make it easier for students to see and interact with a presentation. Advanced sound systems make it easier for all children to hear the teacher, no matter where they may be seated. Our new schools are truly constructed to support 21st century learning.

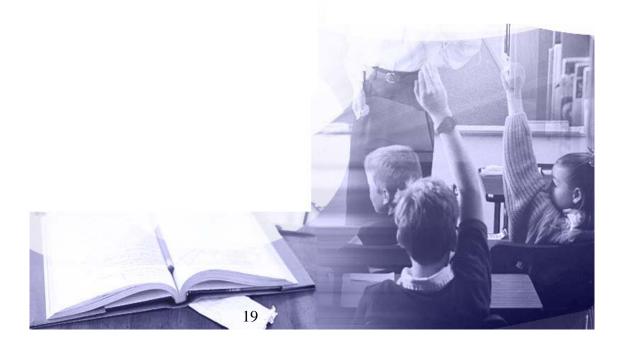
Technology and Existing Buildings

Providing a state-of-the-art technology infrastructure in older buildings is a significant challenge. Many of our buildings were constructed before the advent of the personal computer and, therefore are significantly deficient of electrical capacity at both the main service and in the individual classrooms. Buildings that have upgraded main power service facilities may or not have sufficient circuits to each classroom to support more than a bare minimum configuration of technology. Adding a 3-8 computer mini-lab, interactive presentation devices and advanced sound systems, challenges not only the available power, but often creates significant heat loads which cannot be removed by existing heating and air conditioning systems.

By using capital funds, bond proceeds, and E-Rate funds, we have been able to work on a multi-point upgrade program, which will provide additional access to technology resources for students and faculty. Where needed (and within the scope of existing funding sources) we are upgrading head-end power service facilities which will provide sufficient electrical circuits for each classroom. Data infrastructure upgrades are being handled in such a manner that will allow future upgrades to be more modular and less laborious. Occasionally, a school may decide to allocate sufficient space for full computer labs. Where possible, air conditioning is installed to make the labs as comfortable as possible during hot summer months. Older schools are also being retrofitted with wireless access so students and faculty members can safely access the network, using wireless network interface cards.

Davis School District is making strides in providing cost effective technology solutions to meet the needs of students who are preparing for a 21st century world.

Further information on technology initiatives can be obtained from the Technology Services Group at 801-402-5750.



ENERGY

The District has implemented strategies using capital funds for maintaining facilities and opportunities for reducing energy costs, increasing energy efficiency, improving indoor air quality in existing schools (regardless of age), and installing energy saving equipment in new construction projects.

Re-Commissioning Existing Buildings:

Re-commissioning is a process for detecting and diagnosing building operation faults in order for system corrections to be made. It is recognized as a cost-effective strategy, typically involving on-going activities for improvement. Benefits from recommissioning range from low cost upgrades in building operations and control strategies, to replacement of failed components, and recommendations for future capital improvements and equipment replacements. A few of these strategies are:

- Historic analysis and typical benchmarking for schools
- Boiler tune-up or replacement
- Caulking inspection around windows and doors for replacement
- Power upgrades
- Lighting upgrades to more energy efficient lighting and controls

Proper maintenance of equipment can lead to energy savings, extended equipment life, increased building comfort, and improved indoor air quality.

New Construction Projects:

Davis School District employs the best and most experienced architects and engineers. They take great care in determining relative merits of how building systems work together for maximum energy savings, desired indoor air quality, and ease of maintenance.

As with building construction, which must be designed to meet standards set by the International Code Council (ICC), there is also an International Energy Construction code dealing with energy. When a new school is planned and designed, every effort goes into providing the building with the highest quality equipment. One criteria is to install "Energy Star* Qualified Products" wherever possible. Energy Star Products use less energy, save money, and help protect the environment.

Further information on energy initiatives may be obtained from the Utility Services Department at 801-402-5246.

ENERGY STAR is a joint program of the U.S. Environmental Protection Agency and the U.S.
 Department of Energy helping us all save money and protect the environment through energy efficient products and practices. Further information may be found at www.energystat.gov.

MAINTENANCE

The maintenance of school district facilities is managed by the Environmental Maintenance Services (EMS) Department in conjunction with the efforts of Custodial Services.

Even with the rapid growth of the District and increasing number of new facilities, it is imperative that the focus remains on the preservation of existing facilities. The replacement value of these operational facilities is just under \$1.5 billion dollars.

Maintenance of Existing Facilities:

Recognizing the tremendous taxpayer investment that our district's facility inventory represents, processes must be in place to sustain their vitality and usefulness. Many of the maintenance practices currently employed extend the useful life of building systems well beyond industry standards. It is not uncommon for roofs to last ten to twenty years longer than anticipated, or boilers manufactured in the 1940s, to still be in operation.

Recent bond initiatives allocated significant funding for projects such as boiler replacements, culinary waterline replacements, re-roofing, fire alarm upgrades, parking/asphalt upgrades, painting, energy systems control upgrades, security access, and window replacement. Many of these projects realize cost savings through energy upgrades or increased levels of safety and security for patrons and staff.

Work Orders:

Requests for maintenance work in a school are managed through a computer work order system which is part of the DSD comprehensive Encore Computer System. The total number of requests approaches 30,000 annually, with an upward trend that is fueled by a steady increase of new schools.

Reports generated from the Encore System are utilized by the department to manage the workload to prioritize, forecast, track, job cost, and provide data to enable accurate response to customer inquiries.

Small Capital Projects:

The EMS staff members are used to complete many small capital projects. These projects are designed in-house and are comprised of minor building remodels, i.e., offices and restrooms, cabinet fabrication, closed circuit television systems, fire protection systems, access control systems, and computer labs.

The department also utilizes contractual resources to perform work during peak seasons, and/or whenever these resources are more cost effective, or where specialized expertise is required. The EMS staff routinely supervise contracts for project categories such as concrete work and asphalt.

Further information may be obtained from contacting Environmental Maintenance Services at 801-402-7400.

PROPERTY PURCHASES

Davis School District has established a Property Group to review and recommend to the Board, matters dealing with acquisition and/or disposal of real estate. The Group reviews property purchases, sales, leases, and rentals. Final decisions regarding property issues are made by the Davis School District Board of Education.

The Property Group meets monthly and is comprised of: Assistant Superintendent for Business Administration (chair), Assistant Superintendent for Support Services, Administrator of Facilities Management, Legal Issues Specialist (Staff Attorney), Finance Director, Director of Purchasing, and the Capital Assets Accountant.

The District attempts to acquire and hold enough property for school sites sufficient for the next twenty years. The goal is to obtain large land parcels prior to development into sites too small for a school. Any school location requires a large enough parcel that is generally flat, of the right shape, on an appropriate road (elementary schools can be on a road inside a development - secondary schools should be on a main road) and has the required infrastructure. There are still areas of the county without a sewer system. Storm drainage, road access, and water pressure for fire flow, are some of the many other considerations. The acreage requirements for a school are generally:

High Schools 40 - 50 Acres Junior Highs 20 - 24 Acres Elementaries 10 - 12 Acres

Close cooperation between the District and cities is mutually beneficial. If both agree on a general site location for a future school, the city can anticipate the presence of a school as they build infrastructure and allow development. Cities have included the requirement of a school in either their master plan, or whenever a large development is proposed.

After the potential sites are identified, they are prioritized. The highest priority is given to two categories: 1) sites which are anticipated to be needed soonest, and 2) sites which are hardest to acquire. These hard to acquire sites are large, with special site and infrastructure requirements (secondary schools) or are in areas with rapid development where a site may be hard to acquire now and impossible later. Occasionally, a desired parcel becomes available and is purchased sooner than anticipated. Other times, property negotiations have taken as much as eight years before a site purchase is finalized.

Property may be acquired through purchase, or if required, the process of eminent domain. Before a parcel is purchased or sold, an appraisal is required. A detailed checklist of all the steps involved in a site purchase is on the next page.

The duties are divided in the acquisition process so that one individual cannot unduly influence a property purchase or disposition of surplus property. Often, property acquired for a school site may not be used immediately. The Director of Purchasing is responsible for leasing vacant land or renting homes.

Further information may be obtained from the Finance Department at: 801-402-5232.

Appendix A - Sample Facilities Assessment

Facility Assessment Summary Any School 19 June 2007 Any Street, Any Town, Utah 0 Legend 10-19 Years 20-29 Years 30-39 Years 50 + Years 0-9 Years 40-49 Years **Building Information Project** Year **Square Feet** Original Building 1972 138,277 Classroom Addition 1977 53,861 Classroom Addition 1982 48,979 8,296 Auxiliary Gym Addition 1996 Site Information Description **Square Feet** Acres 1,641,776 37.69 Total Site andscaped Area 1,170,345 26.87 Asphalt Area 471.431 10.82 249,413 Total Water Shares Total Gross Square Feet Portable Information Portable Information **Portable** Year Built Year Set Square Feet **Portable** Year Built **Year Set Square Feet** 1982?? 1995 #256 was 1002 896 #22 1979 1995 896 #222 1995 1995 1,008 1999 1999 1,008 #272 #304 2002 2002 1,008 #217 1995 2007 1,008 1990 2006 1,008 #82 Total 6,832 **Facility Condition Index** Spring 2005 Date of Survey 5 Replacement Value \$46,141,405 **Total Deficiencies** \$14,846,000 FCI 0.32 3 Total Summary Score 67.98 2 Summary Average 3.24 Base Building Capacity 1159 Capacity w/Portables 1449 **Extended Capacity** 1533 **Facility Improvement Fund** ■ Flexibility ■Office ■Storage ■Athletic ■ Programs ■Support Facility Base \$12,563 □ Comfortable □ Accessibility ■Technology ■Furniture Lighting ■Image Enrollment Base \$16,594 ■Safety ■Traffic ■ Parking ■Cleanliness ■Grounds □Power Enrollment Oct 2007 1,341 □Data ■Restrooms ■HVAC Total FIF Allocated 06-07 \$17,043

Facility Assessment Summary

Any School

	Utility Costs						
School Year	Total Cost	Cost/SF	Δ%				
2000-01	\$237,189	\$0.95	,				
2001-02	\$230,953	\$0.93	-2.63%				
2002-03	\$236,589	\$0.95	2.44%				
2003-04	\$256,449	\$1.03	8.39%				
2004-05	\$273,169	\$1.10	6.52%				
2005-06	\$317,951	\$1.27	16.39%				
2006-07	\$281,382	\$1.13	-11.50%				
2007-08	·		·				

	Custodial Cost						
School Year	Total Cost	Cost/SF	Δ%				
2000-01	\$ 290,591	\$1.17	0				
2001-02	\$ 267,812	\$1.07	-7.84%				
2002-03	\$ 294,773	\$1.18	10.07%				
2003-04	\$ 322,636	\$1.29	9.45%				
2004-05	\$ 330,697	\$1.33	2.50%				
2005-06	\$ 300,607	\$1.21	-9.10%				
2006-07	\$ 297,551	\$1.19	-1.02%				
2007-08							

	Other Building Pr	rojects	and Renova	ations
Year	Project		Year	Project
1995	Building Addition		2004	ADA Ramp
1996	Re-Roof (66,693 sq, ft.)		2005	Softball Field Renovation - Title IX
1997	Re-Carpet Corridors		2005	Property Sold to Murcock Chevrolet
1997	Re-Roof (91,737 sq, ft.)		2006	Team Room Upgrade (lights, benches)
1998	Fire Alarm Replacement		2006	CCTV Added on Football Field
1998	Front Landscaping		2006	Drivers Range Re-Worked/Striped
2000	Counseling Center Remodel		2007	Fume Hood from North Davis Jr.
2001	Tennis Courts		2007	Athletic Turf on Football Field
2003	Sawdust Collection Sys. Renovation		2007	Gym Floors Refinished
2003	Power Upgrade		2007	Greenhouse New Concret Walls/Gravel
2003	Soffit Replaced Around Auditorium		2007	Data Upgrade
2003	Principal's Office Renovation		2007	HVAC Renovation
2003	Track Renovation		2007	Asbestos Abatement w/HVAC Ren.
2003	Boys Locker Room Floor		2007	Lighting Upgrade
2003	Re-Roof (53,789 sq. ft.)		2007	Football Field Visitors Bleachers Repl.
2003	Computer Lab & Shop Re-Roof			

Data Sheet Any School

	Site Systems					
No.	Install	Item	Model	Size	Remarks	
	1999	Irrigation System	Rainbird Maxicom			
1	1999	Play Equipment K-3	Little Tykes			
1	1999	Play Equipment 3-6	Little Tykes			
	1999	Asphalt - Parking				
	1999	Asphalt - Playground				
	1999	Fencing				
	1999	Landscaping				

	Architectural Systems					
No.	Install	Item	Model	Size	Remarks	
	1999	Roof	Sarnafil - Single Ply	72,000 sf		
	1999	Exterior Walls	Concrete Block			
	1999	Carpet	Lees Faculty IV	India Ink 4247		
18	1999	Lunchroom Tables	Midwest - Round			

			Mechanical Syste	ems	
No.	Install	ltem	Model	Size	Remarks
1	1998	Water Boiler - Bryan	AB200WFDG	HP 70.7	Ser. #82894 (U23496), ATC Barber Coler
1	1998	Water Boiler - Bryan	AB200WFDG	HP 70.7	Ser. #82895 (U23495), ATC Barber Coler

	Electrical Systems						
No.	Install	Item	Model	Size	Remarks		
1	1999	Electrical Service	Siemans	1200 amp	480V 277V		
1	1999	Emergency Generator	Onan Genset				
1	1999	Fire Alarm	FCI 7200	V5.007			
1	1999	Bell System	Rauland	MCZ300 2524			
1	1999	Sound System	Rauland	MCZ300			
1	1999	Phone System	Vodavi				
1		Energy System	Barber Colman	Siebe			
1	1999	Security System	CSI	Maxsys			
1	1999	Keying System	CSI	Maxsys			

Deficiency List

Any High School

Site Issues						
Deficiencies	Date	Rating	Priority	Anticipated	Estimate	
New Parking - Improve Access	7/01	4.5	1		\$250,000	
Resurface Parking Lots	2/04				\$500,000	
Automate Sprinklers Main Bldg. N. Side & D Bldg.	2/04				\$60,000	
Sprinkler Renovation on the Practice Field	2/04				\$100,000	
Planting Renovation Along South Side	2/04				\$50,000	
Resurface Track	2/04			2007	\$175,000	
West Parking North of Auditorium - Reconstruction	704				\$83,000	
Driver's Ed Range & Parking - Reconstruction	7/04				\$95,180	

Risk Management / Health / Safety / Security / ADA Issues							
Deficiencies Date Rating Priority Anticipated Estimate							
Auditorium Curtains & Riggings (See Master Plan)	11/04			BOND	\$30,000		
CCTV Installed (Closed Circuit Television)	2/06	·	1	BOND	\$30,000		

Educational Program Issues							
Deficiencies Date Rating Priority Anticipated Esti							
Bleacher Seats Replaced & Bracing Renovated	2/04				\$150,000		
Crown FB Field & Replace Visitor Side Bleachers	2/04				\$150,000		
Master Plan Including HVAC, Asbestos "C" Bldg. High Priority	2/06		HIGH	BOND	\$6,120,000		

HVAC / Plumbing / Electrical / Energy Issues										
Deficiencies	Date	Rating	Priority	Anticipated	Estimate					
Upgrade Building Controls	7/01	4.1	3	BOND	\$350,000					
Move Marquee to North West Corner if the Property	2/04				\$10,000					
Fire Alarm System Renovation (See Rebuild)				BOND	\$300,000					

Architect	Architectural / Structural / Aesthetic Issues											
Deficiencies	Date	Rating	Priority	Anticipated	Estimate							
Seal Floor in Welding Shop	7/01	5.4	1	2002	\$3,500							
Carpet Replaced Throughout	2/04				\$400,000							
Auto Shop Renovation	2/04				\$50,000							
Locker Room Carpet	2/04				\$25,000							
Storage Shed (30 x 60 Expanded)	2/04				\$60,000							
Home Economics Remodeled	2/04				\$50,000							
Seismic Upgrades	2/04			2028	\$20,000,000							
Art Department Remodeled	2/04				\$50,000							
Auditorium and Stage Upgrade	2/04				\$300,000							
-												

Communications / Technology Issues									
Deficiencies	Date	Rating	Priority	Anticipated	Estimate				
Replace Sound System in Both Gyms	2/04				\$14,000				
Data Upgrade	2/04				\$350,000				

		Legend
Priority 1	Immediate	Currently Critical - Correct cited safety hazard - Stop accelerated deterioration - Return facility to operation
Priority 2	Year 1	Potentially Critical - Intermittent operations - Rapid deterioration - Potential life safety hazard
Priority 3	Years 2-5	Necessary - Not critical - Predictable deterioration - Potential downtime - Damage if deferred further
Priority 4	Years 6-10	Recommended - Sensible improvement - Improve overall usability - Reduce long term maintenance
Priority 5		Does not meet current codes or "Grandfathered" - No action required at this time - Correct in the future

	School Year 1999-2000										
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total			
Jul	\$612	\$9	\$24		\$11	(\$11)		\$644			
Aug	\$1,172	\$91	\$40		\$11	\$202		\$1,515			
Sep	\$402	\$124	\$15		\$17	\$0		\$558			
Oct	\$1,314	\$142	\$48		\$41	\$202		\$1,747			
Nov	\$1,531	\$725	\$55		\$45	\$202		\$2,558			
Dec	\$1,468	\$1,044	\$48		\$43	\$155		\$2,757			
Jan	\$1,444	\$1,289	\$47		\$42	\$202		\$3,023			
Feb	\$1,461	\$954	\$47		\$41	\$202		\$2,704			
Mar	\$1,520	\$876	\$51		\$42	\$205		\$2,694			
Apr	\$1,371	\$383	\$45		\$40	\$204		\$2,043			
May	\$1,214	\$35	\$39		\$42	\$204		\$1,535			
Jun	\$887	\$67	\$116		\$40	\$3		\$1,113			
Totals	\$14,397	\$5,738	\$576	\$0	\$414	\$1,767	\$0	\$22,893			

	School Year 2000-2001										
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total			
Jul	\$705	\$51	\$199		\$43			\$998			
Aug	\$1,162	\$96	\$42		\$42			\$1,342			
Sep	\$1,564	\$150	\$55		\$40			\$1,809			
Oct	\$1,680	\$398	\$51		\$25			\$2,155			
Nov	\$1,514	\$1,206	\$36		\$20			\$2,776			
Dec	\$1,730	\$1,385	\$45		\$25			\$3,185			
Jan	\$2,257	\$1,787	\$60		\$33			\$4,137			
Feb	\$1,936	\$1,867	\$47		\$26			\$3,876			
Mar	\$1,988	\$1,307	\$43		\$28			\$3,365			
Apr	\$1,770	\$831	\$32		\$25			\$2,658			
May	\$1,569	\$266	\$40		\$26			\$1,902			
Jun	\$1,232	\$113	\$26		\$27			\$1,398			
Totals	\$19,107	\$9,456	\$678	\$0	\$359	\$0	\$0	\$29,600			

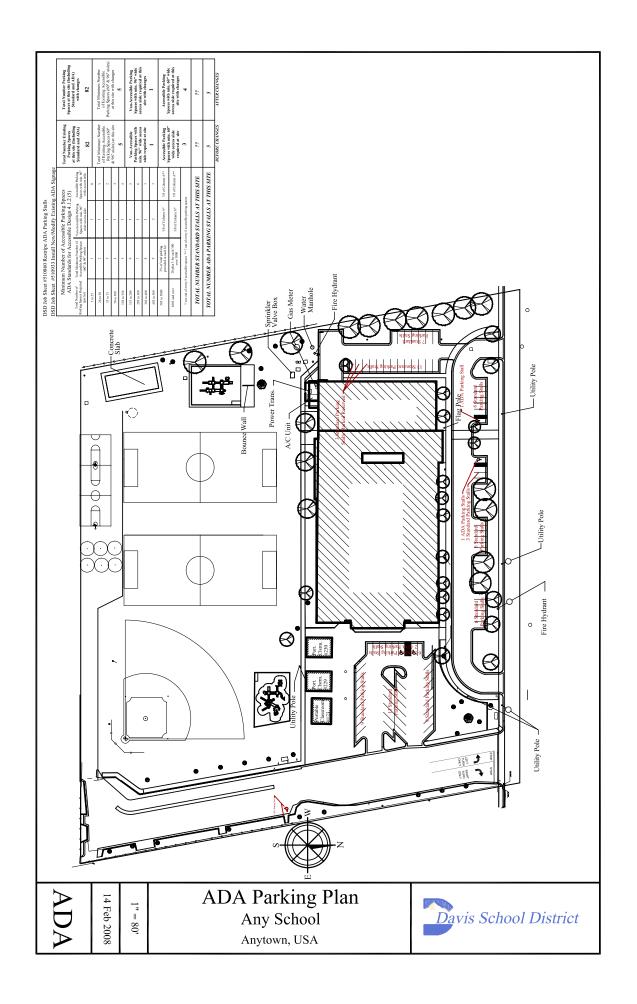
			Schoo	ol Year 2001	-2002			
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total
Jul	\$699	\$102	\$26		\$34		\$95	\$956
Aug	\$498	\$123	\$26		\$30	\$226	\$80	\$983
Sep	\$481	\$185	\$31		\$26	\$451	\$67	\$1,241
Oct	\$3,832	\$378	\$57		\$35	\$123	\$128	\$4,553
Nov	\$1,605	\$971	\$46		\$24	\$19	\$87	\$2,752
Dec	\$2,126	\$1,758	\$51		\$27		\$97	\$4,059
Jan	\$2,132	\$1,507	\$39		\$25	\$457	\$92	\$4,252
Feb	\$1,572	\$1,127	\$20		\$19	\$184	\$69	\$2,991
Mar	\$960	\$1,123	\$18		\$14	\$184	\$51	\$2,350
Apr	\$1,295	\$601	\$25		\$18	\$184	\$64	\$2,187
May	\$1,564	\$162	\$31		\$24	\$184	\$87	\$2,052
Jun	\$1,212	\$140	\$26		\$26		\$95	\$1,499
Totals	\$17,976	\$8,177	\$396	\$0	\$302	\$2,012	\$1,012	\$29,875

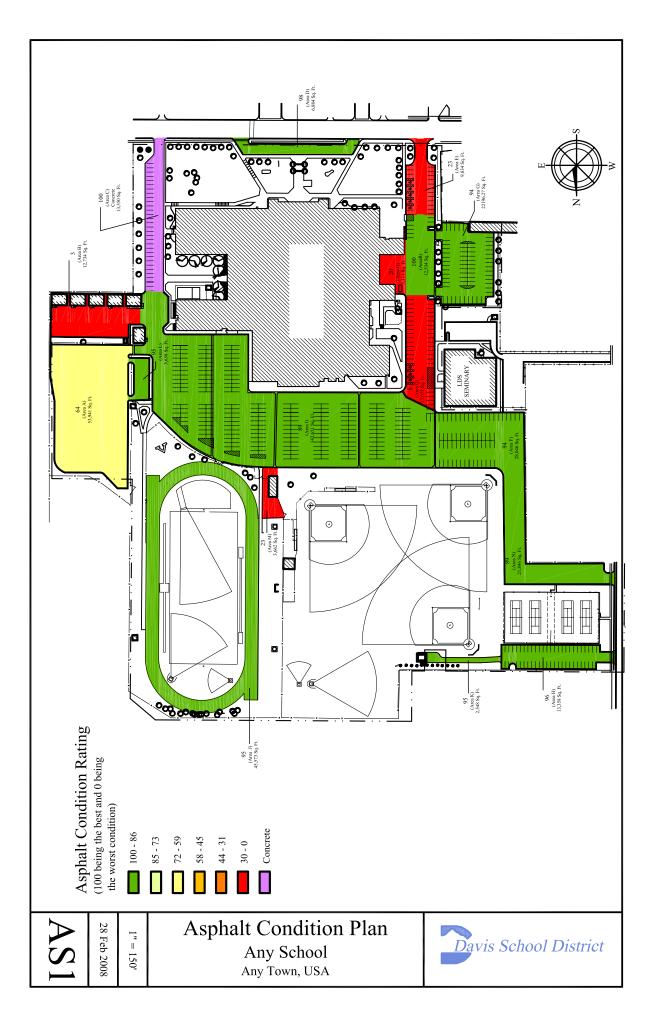
			Schoo	ol Year 2002	2-2003			
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total
Jul	\$937	\$92	\$27	\$0	\$32	\$61	\$100	\$1,249
Aug	\$1,336	\$105	\$30	\$0	\$30	\$127	\$92	\$1,720
Sep	\$1,758	\$199	\$36	\$0	\$29	\$184	\$88	\$2,294
Oct	\$2,018	\$713	\$34	\$0	\$32	\$171	\$96	\$3,064
Nov	\$2,027	\$1,017	\$25	\$0	\$31	\$89	\$90	\$3,279
Dec	\$1,970	\$1,347	\$23	\$0	\$30	\$92	\$85	\$3,547
Jan	\$2,017	\$1,076	\$24	\$0	\$30	\$184	\$87	\$3,418
Feb	\$1,991	\$1,285	\$24	\$0	\$30	\$184	\$87	\$3,601
Mar	\$2,034	\$1,236	\$53	\$0	\$31	\$362	\$92	\$3,808
Apr	\$1,793	\$786	\$85	\$0	\$30	\$184	\$87	\$2,965
May	\$1,899	\$514	\$45	\$0	\$34	\$53	\$100	\$2,645
Jun	\$1,183	\$163	\$31	\$0	\$31	\$31	\$90	\$1,529
Totals	\$20,963	\$8,533	\$437	\$0	\$370	\$1,722	\$1,094	\$33,119

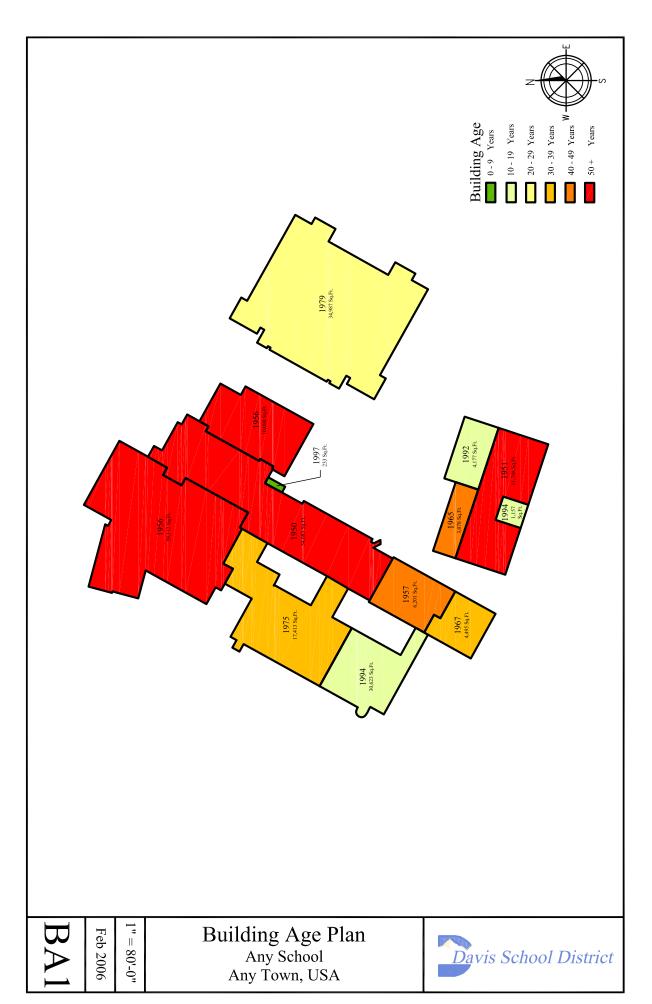
	School Year 2003-2004										
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total			
3-Jul	\$697	\$107	\$25	\$0	\$31	\$207	\$90	\$1,157			
3-Aug	\$1,301	\$136	\$41	\$0	\$31	\$197	\$90	\$1,796			
3-Sep	\$1,718	\$189	\$58	\$0	\$28	\$197	\$82	\$2,272			
3-Oct	\$2,037	\$292	\$35	\$0	\$29	\$197	\$104	\$2,694			
3-Nov	\$2,056	\$1,493	\$26	\$0	\$26	\$139	\$94	\$3,834			
3-Dec	\$1,915	\$1,589	\$24	\$0	\$24	\$195	\$88	\$3,835			
4-Jan	\$1,726	\$1,883	\$21	\$0	\$26	\$197	\$77	\$3,930			
4-Feb	\$1,930	\$1,520	\$25	\$0	\$30	\$197	\$90	\$3,792			
4-Mar	\$2,323	\$1,406	\$37	\$0	\$32	\$168	\$96	\$4,062			
4-Apr	\$1,559	\$848	\$56	\$0	\$24	\$196	\$70	\$2,753			
4-May	\$2,516	\$253	\$40	\$0	\$30	\$134	\$126	\$3,099			
4-Jun	\$1,448	\$139	\$30	\$0	\$5	\$74	\$85	\$1,781			
Totals	\$21,226	\$9,855	\$418	\$0	\$316	\$2,098	\$1,092	\$35,005			

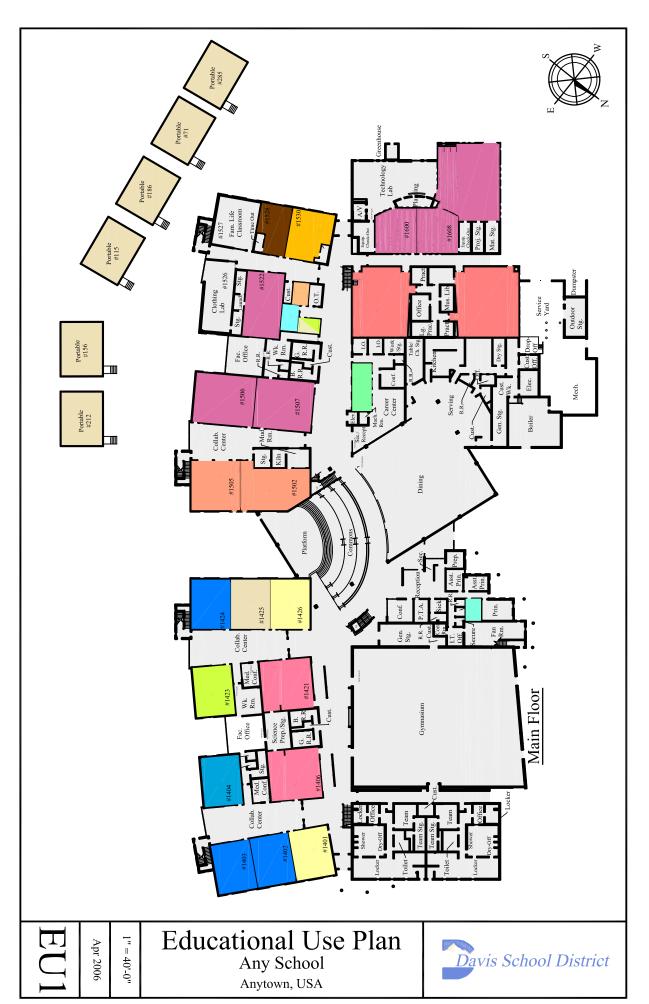
			Schoo	ol Year 2004	-2005			
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total
Jul 04	\$1,109	\$107	\$30	\$130	\$2	\$180	\$98	\$1,656
Aug 04	\$1,755	\$166	\$37	\$130	\$2	\$216	\$90	\$2,396
Sept 04	\$2,012	\$84	\$43	\$126	\$26	\$217	\$58	\$2,566
Oct 04	\$2,062	\$563	\$34	\$130	\$68	\$189	\$27	\$3,073
Nov 04	\$1,803	\$1,863	\$23	\$126	\$0	\$216	\$77	\$4,108
Dec 04	\$2,353	\$1,189	\$29	\$130	\$0	\$217	\$97	\$4,015
Jan 05	\$2,773	\$1,851	\$28	\$141	\$5	\$217	\$93	\$5,108
Feb 05	\$2,347	\$1,733	\$27	\$132	\$5	\$216	\$91	\$4,551
Mar 05	\$2,381	\$1,762	\$61	\$274	\$5	\$187	\$94	\$4,764
Apr 05	\$2,100	\$1,283	\$143	\$9	\$5	\$216	\$84	\$3,840
May 05	\$2,339	\$512	\$96	\$0	\$5	\$136	\$102	\$3,190
Jun 05	\$1,646	\$124	\$33	\$0	\$5	\$69	\$89	\$1,966
Totals	\$24,680	\$11,237	\$584	\$1,328	\$128	\$2,276	\$1,000	\$41,233

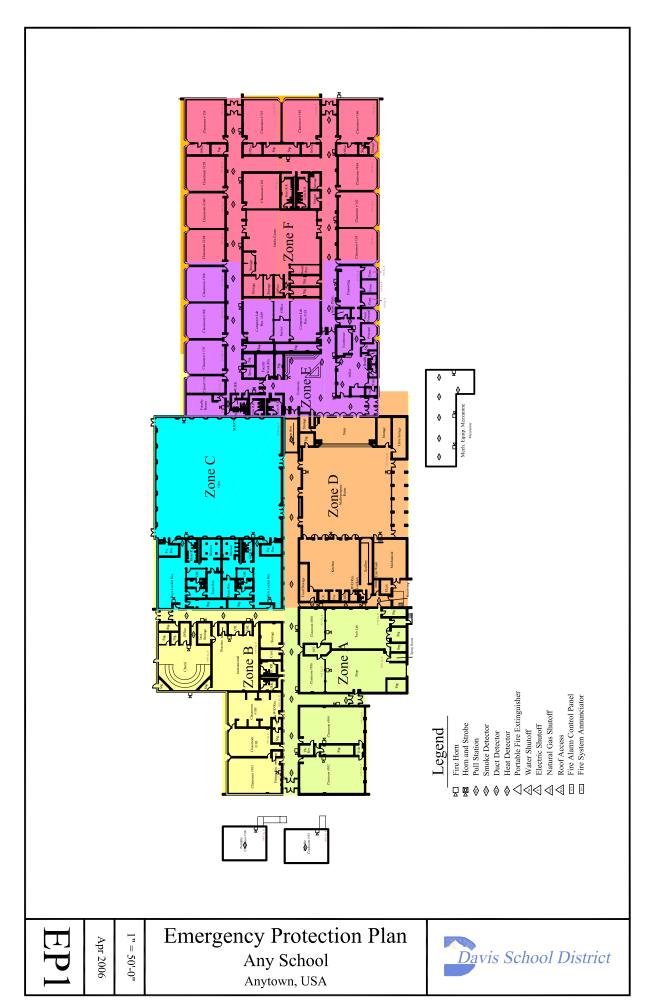
			Schoo	ol Year 2005	-2006			
Month	Electrical	Gas	Water	Irrigation	Sewer	Garbage	Storm	Total
5-Jul	\$1,242	\$97	\$26	\$0	\$5	\$182	\$85	\$1,637
5-Aug	\$1,970	\$135	\$28	\$0	\$5	\$113	\$93	\$2,344
5-Sep	\$2,107	\$163	\$27	\$0	\$5	\$107	\$90	\$2,499
5-Oct	\$2,152	\$267	\$35	\$0	\$5	\$321	\$108	\$2,888
5-Nov	\$2,098	\$2,794	\$27	\$0	\$5	\$114	\$89	\$5,127
5-Dec	\$2,227	\$2,801	\$29	\$0	\$100	\$214	\$96	\$5,467
6-Jan	\$2,003	\$3,491	\$26	\$0	\$34	\$117	\$57	\$5,728
6-Feb	\$1,919	\$2,782	\$23	\$0	\$67	\$103	\$13	\$4,907
6-Mar	\$2,234	\$2,750	\$30	\$0	\$5	\$183	\$99	\$5,301
6-Apr	\$2,176	\$1,495	\$29	\$0	\$32	\$216	\$71	\$4,019
6-May	\$1,989	\$447	\$28	\$0	\$70	\$140	\$27	\$2,701
6-Jun	\$1,590	\$74	\$28	\$0	\$5	\$77	\$92	\$1,866
Totals	\$23,707	\$17,296	\$336	\$0	\$338	\$1,887	\$920	\$44,484

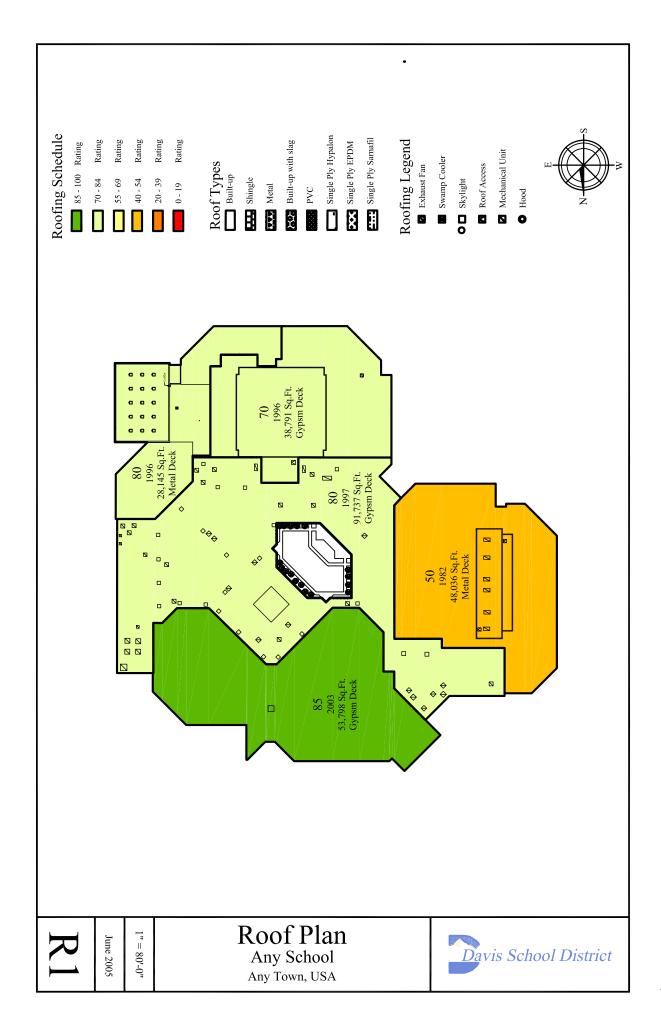


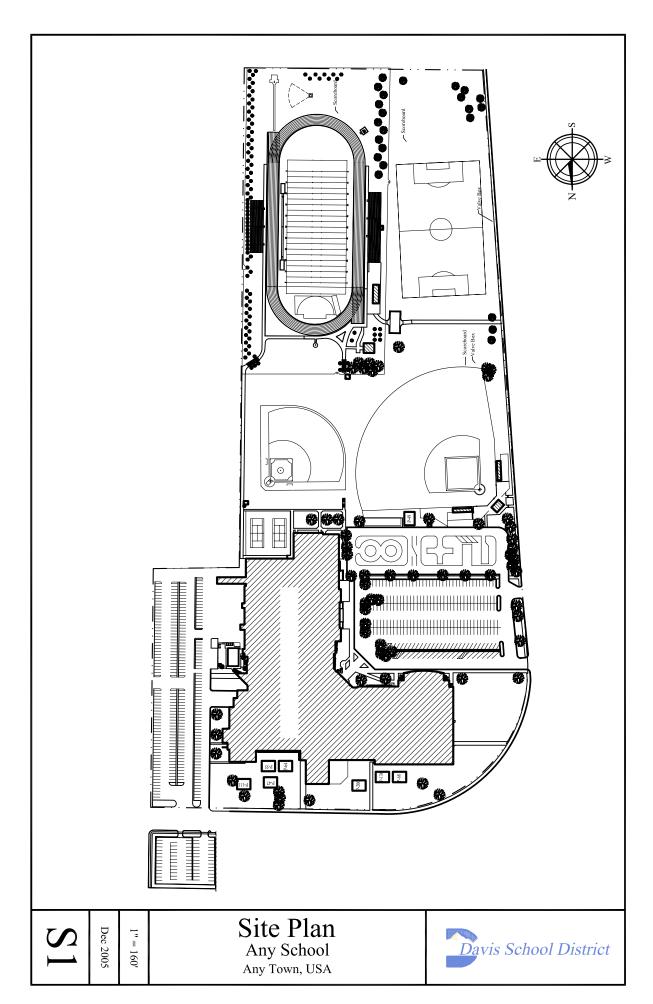


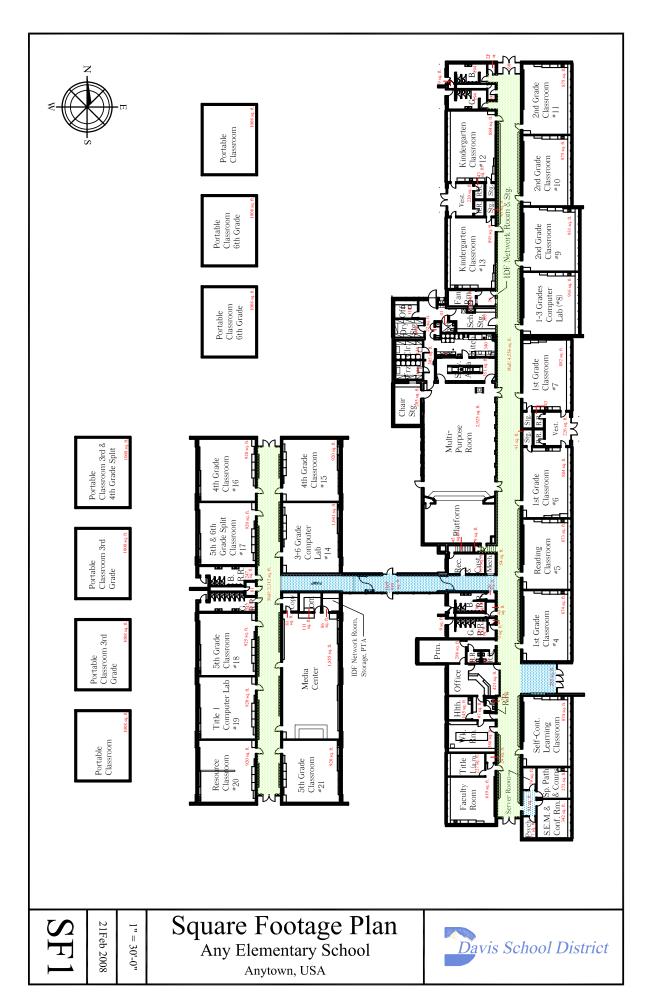




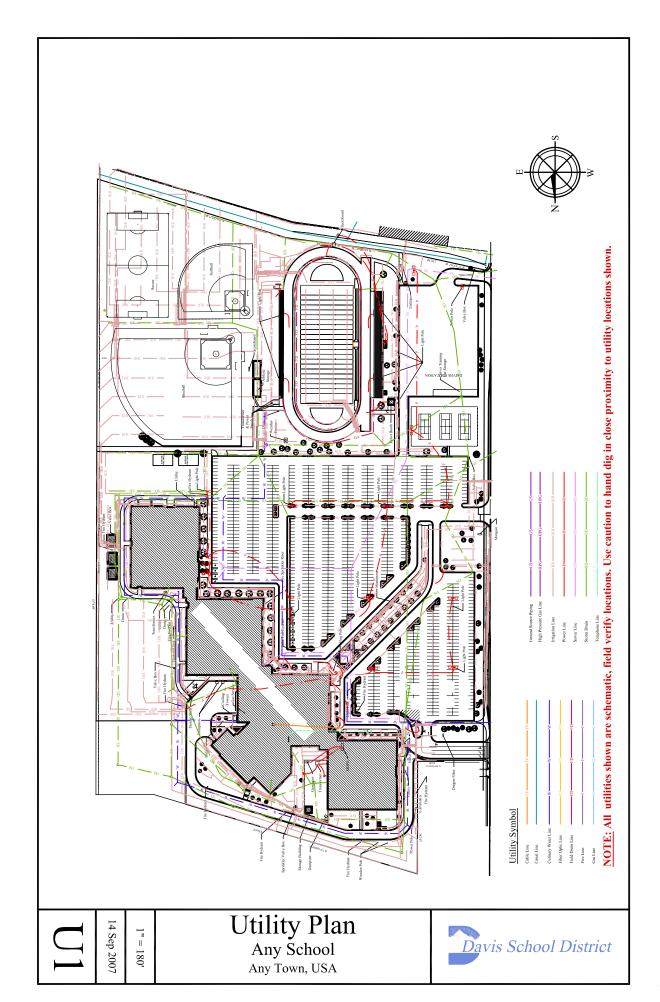




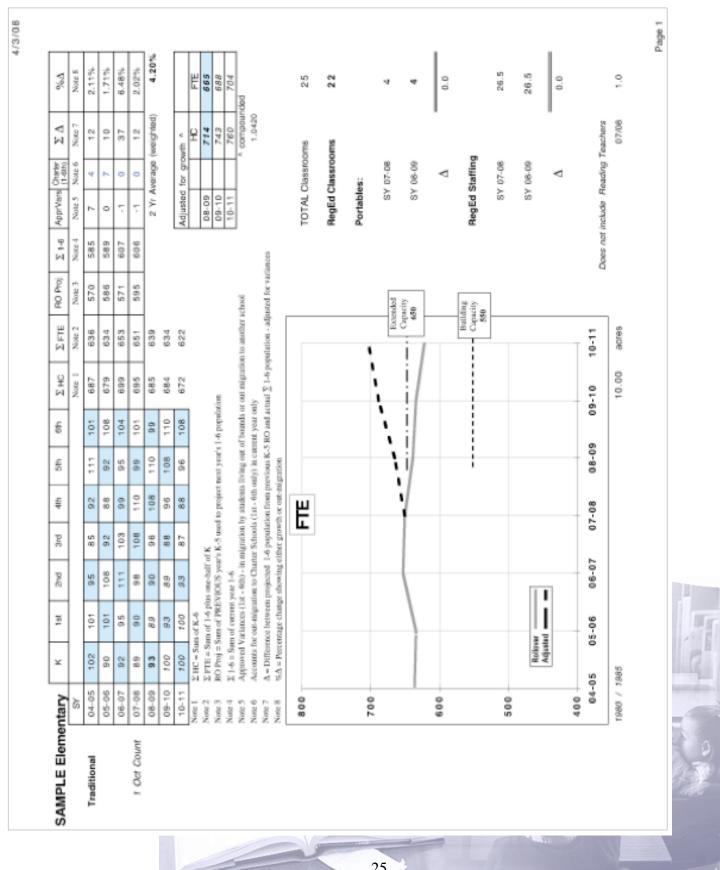








Appendix B – SAMPLE SCHOOL ENROLLMENT DATA SHEET



Appendix C – SAMPLE PROJECT INFORMATION SHEET





Elementary School Example ElementaryAddress, City, State, Zip

Project Information Sheet Date

Date Capital Planning Approval

Archite	ct	A/E Fee %	4.50%	Program Number	####
Address,	City, State, Zip, Phone	Square Footage	72,678	Funding Source	Bond 2006
Date	Board of Education Approval	Price / Square Foot	\$168.68		
Contrac	ctor	Bid Amount	\$12,259,430	Bid Opening	Date
Address,	City, State, Zip, Phone	Contract Amount	\$12,557,554	Notice to Proceed	Date
Date	Board of Education Approval	Retainage	\$0	Substantial Comp	Date

	11	- U	·		
Code	Description	Preliminary Estimate	Projected Costs	Amount Paid	Percent Complete
330	Consultant				
330.1	Architect / Engineer Fees	\$517,500	\$551,674	\$549,378	100%
000.1	Fee Adjustments	\$16,301	\$17,378	φο το,στο	10070
330.2	Printing	\$10,000	\$10,000	\$7,325	73%
330.3	Additional Services	\$0	\$0	\$0	100%
330.4	Value Engineering	\$0	\$0	\$0	100%
330.5	Soils Engineering	\$7,500	\$5,000	\$4,400	88%
330.6	Survey / Civil Engineering	\$30,000	\$35,000	\$34,562	99%
330.7	Construction Testing	\$35,000	\$35,000	\$34,233	98%
330.8	Geoexchange Engineering	\$15,000	\$14,000	\$14,000	100%
	Consultant Total	\$631,301	\$668,052	\$643,898	96%
460	Contractor				
460.1	Estimate / Bid	\$11,500,000	\$12,259,430	\$12,752,349	104%
460.2	Change Orders	\$345,000	\$367,783	\$298,124	81%
460.3	Miscellaneous Contingency	\$17,250	\$18,389	\$720	4%
	Contractor Total	\$11,862,250	\$12,645,602	\$12,753,069	101%
690	Direct Purchases				
690.1	Carpet	\$96,904	\$96,904	\$95,062	98%
690.2	Blinds	\$5,000	\$5,000	\$3,687	74%
	Utilities	\$15,000	\$15,000	\$13,045	87%
690.4	Impact Fees	\$25,000	\$25,000	\$23,000	92%
690.5	Asbestos Abatement	\$0	\$0	\$0	100%
	Direct Purchases Total	\$141,904	\$141,904	\$134,794	95%
		\$141,904	\$141, 3 04	\$134,794	95 /6
733	Furniture Fixtures & Equipment	4077.00 2	Ф075 000	00.10.000	0001
733.1	Furnishings	\$375,000	\$375,000	\$348,862	93%
733.2	Custodial Setup	\$45,000	\$45,000	\$36,275	81%
740.0	Computer Equipment	\$400,000	\$400,000	\$359,921	90%
750.0	Text Books and Supplies	\$300,000	\$300,000	\$266,861	89%
	FF&E Total	\$1,120,000	\$1,120,000	\$1,011,919	90%
	GRAND TOTAL	\$13,755,455	\$14,575,558	\$14,543,680	

DAVIS SCHOOL DISTRICT Farmington, Utah 1/29/07

DONOR FUNDED SCHOOL CONSTRUCTION PROJECT APPLICATION FORM

DATE	
LOCATION OF PROJECT	
BRIEF DESCRIPTION OF PRO	JECT
Contact Persons:	
Donor Representative:	:
Phone Number:	
Address:	
Email Address:	
School Representative	ə:
Phone Number:	^
Address:	
Email Address:	
District Representative	e:
Phone Number:	
Address:	
Email Address:	
Other Representative:	
Phone Number:	
Address:	
Email Address:	
Expected Start and Finish Dates	s:
	Start Date:
	Finish Date:

FUNDING

Method	of Funding:	
	Donor Amount:	\$
	School Amount:	\$
	School District Amount:	\$
	Other Funding:	\$
	Total Expected Cost:	\$
	-	brief description of labor needed by entity listed:
	Sahaali	
	3c11001.	
	District:	
	Other:	
	Expected Value of labor for	or tax purposes \$
Material	I / Professional Services don	ations or expectations with brief description:
	School	
	Scilooi	
	District:	
	Other:	
	Expected Value of materia	I/professional services for tax purposes \$
Will Fun	nding flow through the Davis	School District Foundation? Yes No
How will	I payments be made? Will p	project be bonded or cash deposit? Are funds available?
List item	ns anticipated to be bid by Da	avis School District Purchasing Department:

PLANS

Are p	plans available for review by the District's Facility Adm	inistration De	epartment?	Yes	No
If no	t, when?				
Send	d Completed Application Form to: Davis School District Facilities Administration Department 45 E. State Street, PO Box 588 Farmington, Utah 84025-0588 Attention: Gary Payne, AIA, Administr	ator			
	CHECKLI	<u>ST</u>			
1.	Contractor/Sub-Contractor is DSD pre-qualified? Date Verified	Yes	No		
2.	Contractor is in good standing and properly licensed wi	th the State o Yes	f Utah? No	_ Date Ve	rified
3.	Contractor is bondable to 100%?	Yes	No	_ Date Ve	rified
4.	Payment bond equal to 100% of project value required Yes No If "no", why?	? *			
5.	Performance bond equal to 100% of project value requ Yes No If "no", why?				
6.	Contractor has liability insurance coverage equal to \$1		No	_ Date Ve	rified
7.	Contractor has workers compensation insurance? **	Yes	No	_ Date Ve	rified
8.	Other:				
	* Required if over \$20,000 ** Required regardless of	Yesvalue	No	_ Date Ve	rified
	APPROVA	<u>LS</u>			
Envir	ronmental Maintenance Director		Yes	No	Date
Archi	itectural Services Director		Yes	No	Date
Inspe	ection Coordinator		Yes	No	Date
Purcl	hasing Representative		Yes	No	Date
Scho	ol Principal		Yes	No	Date
Utility	/ Services		Yes	No	Date
Admi	inistrator of Facilities Management and Planning		Yes	No	Date
Acco	unting Department		Yes	No	Date
Capit	tal Planning Committee Approval		Yes	No	Date

Appendix D - DONOR PROJECT FORM

DATE

DONOR FUNDED SCHOOL CONSTRUCTION PROJECT APPLICATION FORM

LOCATION OF	PROJECT				
BRIEF DESCR	RIPTION OF PROJECT				
Contact Persor	ns:				
Donor Rep	presentative:			_	
Phone Nun	nber:				
Address:					
Email Addr	ress:				
School Re	epresentative:				
Phone Nun	nber:				
Address:					
Email Addr	ress:				
Phone Nun	nber:				
Address:					
Email Addr	ress:				
	presentative:		Me	1	
Phone Nun	nber:			(4)	
Address: Email Addr	ress:			-10-	
Expected Start	and Finish Dates:		30	ATTEN 1	-
	Start Date:	_			The state of the s
	Finish Date:				1 Wills
		27			

FUNDING

Method of Funding:			
Donor Amount:	\$		
School Amount:	\$		
School District Amount:	\$		
Other Funding:	\$		
Total Expected Cost:	\$		
Labor donation or expectations with Donor:	n brief description of labor needed b	y entity listed:	
School:			
District:			
Other:			
Expected Value of labor for t	ax purposes \$		
Material / Professional Services do Donor:	nations or expectations with brief de	escription:	
School:			
District:		A TOTAL OF	
Other:			
Expected Value of material/p	rofessional services for tax purpo	oses \$	1
Will Funding flow through the Davis	s School District Foundation?	Yes	No
How will payments be made? Will	project be bonded or cash deposit?	Are funds available?	
List items anticipated to be bid by [Davis School District Purchasing De	partment:	

PLANS

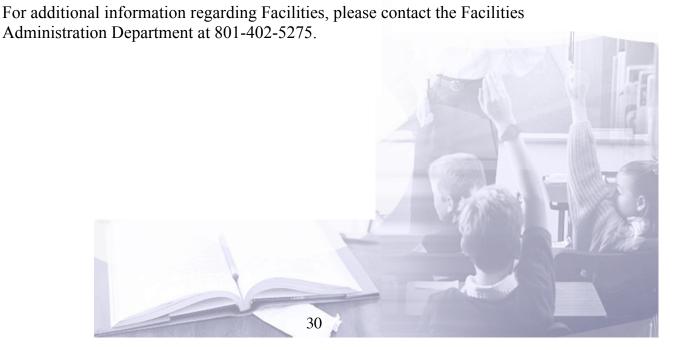
Are p	plans available for review by the District's Facility Adm	inistration De	epartment?	Yes	No
If no	t, when?				
Send	d Completed Application Form to: Davis School District Facilities Administration Department 45 E. State Street, PO Box 588 Farmington, Utah 84025-0588 Attention: Gary Payne, AIA, Administr	ator			
	CHECKLI	<u>ST</u>			
1.	Contractor/Sub-Contractor is DSD pre-qualified? Date Verified	Yes	No		
2.	Contractor is in good standing and properly licensed wi	th the State o Yes	f Utah? No	_ Date Ve	rified
3.	Contractor is bondable to 100%?	Yes	No	_ Date Ve	rified
4.	Payment bond equal to 100% of project value required Yes No If "no", why?	? *			
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8.	Other:				
	* Required if over \$20,000 ** Required regardless of	Yesvalue	No	_ Date Ve	rified
	APPROVA	<u>LS</u>			
Envir	ronmental Maintenance Director		Yes	No	Date
Archi	itectural Services Director		Yes	No	Date
Inspe	ection Coordinator		Yes	No	Date
Purcl	hasing Representative		Yes	No	Date
Scho	ol Principal		Yes	No	Date
Utility	/ Services		Yes	No	Date
Admi	inistrator of Facilities Management and Planning		Yes	No	Date
Acco	unting Department		Yes	No	Date
Capit	tal Planning Committee Approval		Yes	No	Date

Appendix E - PROTOTYPE DEVELOPMENT

In 1996, the District hosted a design seminar facilitated by Stephen Friedlander of Boston, Massachusetts. The purpose of the seminar was to design a new prototype which would replace aging prototypes in use since the early 1970's. The group consisted of two previously selected architectural firms and their engineers, District curriculum advisors, students, teachers, school administrators, and facility personnel. Pedagogy delivery methods, classroom functionality, aesthetics, circulation, open space, comfort, etc., were all discussed. Following the seminar, the findings were summarized and given to the architects in the form of an architectural program for the development of prototypes for two different large elementary schools, small elementary schools, and a multi-story elementary school. The same information was utilized to develop two new junior high prototypes and a senior high prototype.

This process created a unique opportunity for the District since all new prototypes are consistent in educational philosophy, from K-6 through senior high school. Each school is designed around the District preferred teaching arrangement of Smaller Learning Communities. While our schools tend to be on the larger side, 700 students for elementary, 1,100 students for junior high, and up to 2,000 for senior high schools, smaller learning communities can provide safer, smaller feeling environments. For example, at the elementary school, with 4 Small Learning Communities, each student feels part of a school with 150-200 students, rather than all 700 students at one time.

At the end of each new school's first year of operation, the architectural firm conducts a post-occupancy survey. The purpose of the survey is to evaluate the operation of the layout and functionality of the building. Any concerns can be discussed, with improvements made for future buildings. When a new building is scheduled, users of the prototypes are brought together with the design team to address strengths and weaknesses of the design and changes are made were necessary.



Appendix F - BUILDINGS and AWARDS

The district has won numerous awards for school construction, including:

 Syracuse High School named the 2007 Education Project of the Year by McGraw Hill and Intermountain Contractors.



PROTOTYPE DEVELOPMENT

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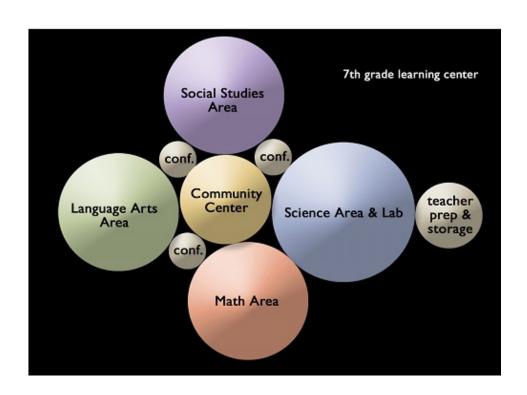


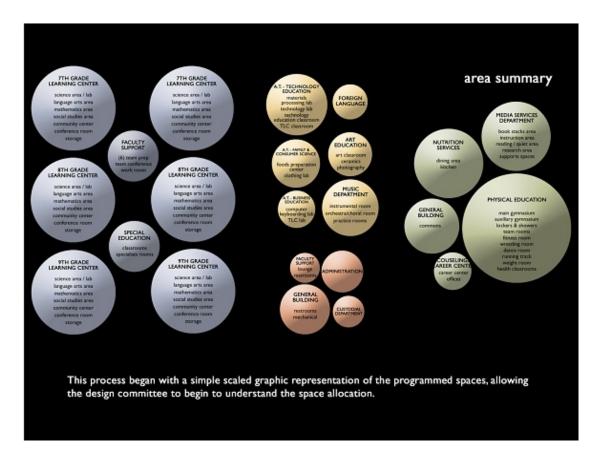


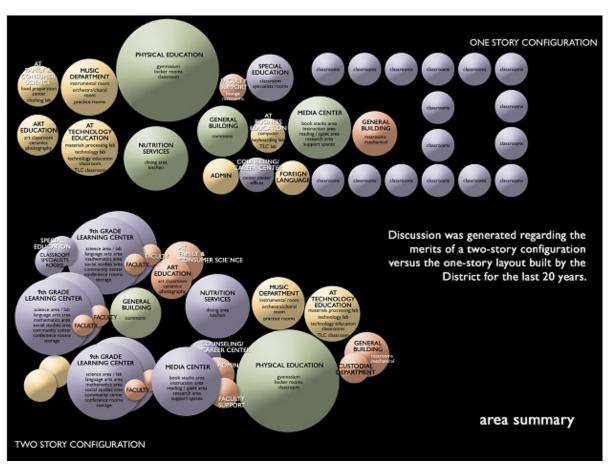


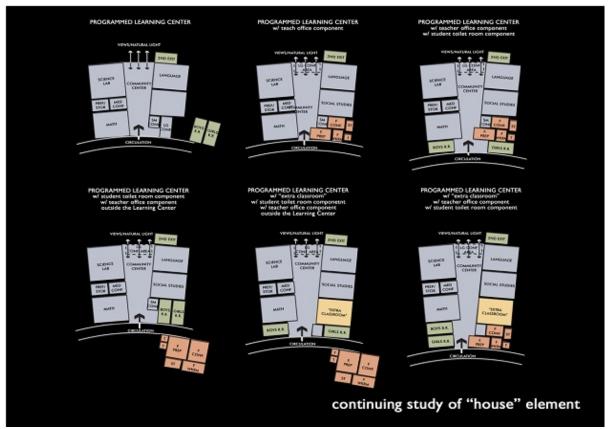
7th Grade Learning Center

GENERAL REQUIREMENTS	ARCHITECTURAL REQUIREMENTS	ENGINEERING REQUIREMENTS
Room Name:	Floors: vinyl composition tile / carpeting	Mechnical:
SCIENCE AREA / LAB		Good ventilation system
(1) per learning center	Walls: painted surfaces	purge exhaust fan fume hood
	Ceilings: acoustilca ceiling tile	
		Plumbing:
Area Requirements:	Ceiling Height: 10'-0" minimum	(8) sinks at lab tables w/ hot & cold
1,200 SF		water & gas
11-11-3-4-7-19-2	Doors: 3' 0" x 7' 0" w/ vision panel as required	sink at demonstration table
	Windows:	deep laundry sink eyewash & shower station
Occupants:	Large wall of windows for growing plants	floor drain
27 students	blackout capability	noor drain
27 Seddelles	biackout capability	Electrical:
	Sound Considerations:	ample electrical outlets & circuits
9,000 0, 800	Isolate acoustically from surrounding spaces	
Adjacencies:		Communications:
teacher preparation and storage room	Fixed Equipment:	Intercom w/ call-back
	5' locking glass display case	
	wall hung cabinets - lockable	Lighting:
Barran Maria	built-in base cabinets - lockable	Indirect lighting w/ multi-level switching
Preparations:	epoxy resin countertops - acid resistant tack board	Task lighting at work stations
	white board sliding	Computer:
	support structure for hanging demonstrations	Data connections for 10 computer stations
Mr. II	projection screen	built in lab tables
Miscellaneous:	demonstration desk lab tables for 27 students	TV Equipment:
	lab tables for 27 students	Wall mounted TV & VCR
	Mobile Equipment:	Ceiling mounted projector
	Proble Equipment.	Cable TV
Summary:	Furnishings:	
	tables and chairs	Security:
		Lockable door
	Miscellaneous:	Motion Sensor
		Miscellaneous:
		Master shut-off's for gas & electrical
		power at demonstration table
		ceiling mounted projector



















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For additional information regarding Facilities, please contact the Facilities Administration Department at 801-402-5275.



Good school design ... award winning schools ... do not have to cost more. In fact, many aesthetically challenged projects (ugly schools) can cost as much or more. Our experience has shown us that with some thought and careful selection of materials, a good design can meet the budget, scope, aesthetic and program needs within the school - and also provide an award winning school.

Appendix F - BUILDINGS and AWARDS

The district has won numerous awards for school construction, including:

Syracuse High School named the 2007 Education Project of the Year by McGraw Hill and Intermountain Contractors.

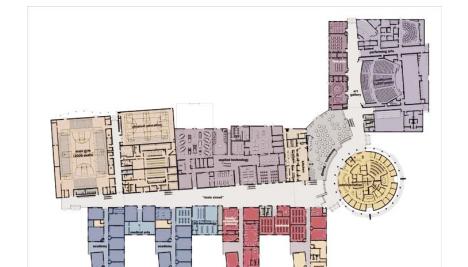




Circulation



Auditorium





Automotive Class



North Davis Junior High School named the 2006 Education Project of the Year by McGraw Hill and Intermountain Contractors.









Commons Athletics Science





Media Center



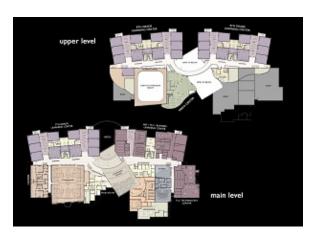
West Point Junior High School was named the recipient of the 2004 James D. McConnell Award for Educational Facility Project Excellence, the highest honor awarded by the Council of Educational Facility Planners International



Commons



FACS Classroom



Concept Plans



Collaboration

F - 3



Special thanks to our Architectural partners who provided their expertise in school design and photographs included in this packet.

Naylor Wentworth Lund Architects Salt Lake City, Utah

> VCBO Architecture Salt Lake City, Utah