



St. Vrain Valley School District

MIDDLE SCHOOL EDUCATIONAL SPECIFICATIONS

Final Draft

November 14, 2008

MIDDLE SCHOOL EDUCATIONAL SPECIFICATIONS

St. Vrain Valley School District

395 South Pratt Parkway

Longmont, Colorado 80501

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November 14, 2008

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DISTRICT VISION STATEMENT

To be an exemplary school district which inspires and promotes high standards of learning and student well being in partnership with parents, guardians and the community.

DISTRICT MISSION STATEMENT

To educate each student in a safe learning environment so that they may develop to their highest potential and become contributing citizens.

INTRODUCTION

The Middle School Educational Specification is a St. Vrain Valley School District model standard for middle school facilities serving grades six (6) through eight (8). It provides a description of the learning spaces and the spaces required to support and manage the learning activities. The primary objective in planning and developing the learning spaces is to develop facilities that will best meet the educational needs of the students served. The learning spaces identified should be designed to facilitate the implementation of the District's middle school educational program.

This document is meant to be a guide and initiation point when the opportunity exists to construct a new middle school or additions and renovations to existing middle schools. The document is a tool to be used to communicate facility design requirements to architects, consultants and district personnel.

It is intended to be a dynamic document that allows for amendments which will require periodic reviews in order to reflect the influence of a changing educational program for middle school students.

This document is not intended to inhibit research or provide a complete design solution. It relies on the creative influence and collaboration of the design team and district staff to create delightful and functional spaces in such a way as to allow the educator maximum flexibility in the quest to engage and meet the needs of the student.

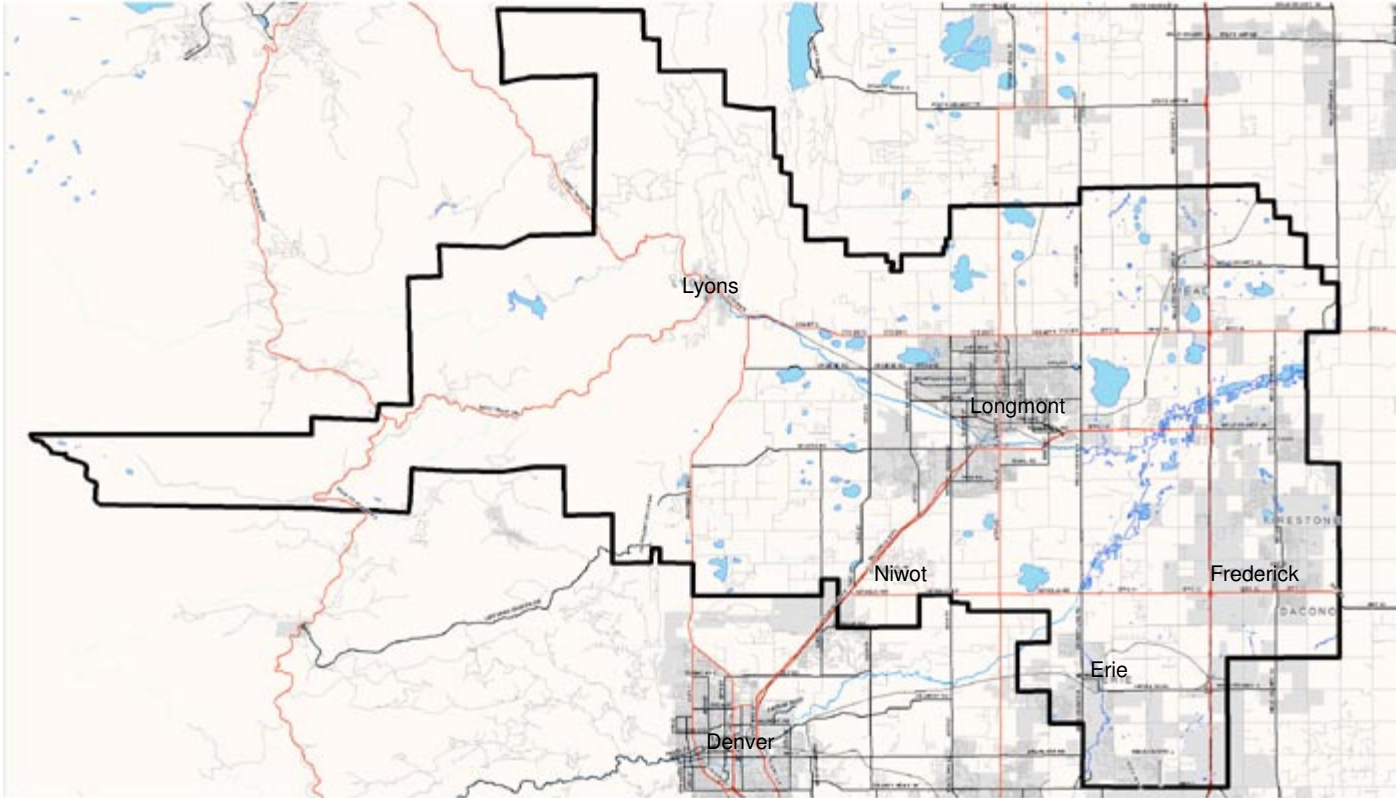
THE ST. VRAIN VALLEY SCHOOL DISTRICT COMMUNITY

St. Vrain Valley School District is the educational home of more than 24,000 of Colorado's students. The tenth largest school district in the state, St. Vrain Valley operates 47 schools that are spread over 411 square miles. The makeup of the schools include: 25 Elementary, 9 Middle, 1 Middle/Senior, 6 High, 2 Alternative, and 4 Charter.

Located approximately 30 miles north of Denver, the District is geographically diverse. Its physical boundaries extend from the Continental Divide into the plains of Colorado. Adding to its scenic setting are historic downtown Longmont and the backdrop of Rocky Mountain National Park and Longs Peak.

There are 13 different communities that makeup St. Vrain Valley School District: eastern Boulder, Broomfield, Dacono, Erie, Firestone, Frederick, Hygiene, Longmont, Lyons, Mead, Niwot, Peaceful Valley, and Raymond. Parts of Boulder, Broomfield, Larimer, and Weld Counties fall within its boundaries. *

St. Vrain Valley School District



Resource:

St. Vrain Valley School District Website:

www.stvrain.k12.co.us

BACKGROUND & PROCESS

BACKGROUND

St. Vrain Valley School District is dedicated to educational excellence. In order to achieve educational excellence, the District is constantly planning for the future and striving to improve its educational programs and instructional techniques. The District incorporates an active planning process and strives to anticipate the needs and expectations of the community it serves. In the summer of 2004 St. Vrain Valley School District adopted a Strategic Plan. The Strategic Plan has 3 areas of focus, Student Achievement, Well Being (Student, Staff, and Organization), and Partnerships. These focus areas include objectives, evidences of success, and over 60 strategies.

Resource:

St. Vrain Valley School District website; www.stvrain.k12.co.us

Educational philosophies and adopted District policies guide the development of educational curriculum and activities offered, which in turn generate the need for physical space. A change in education philosophies or policies can modify the need of specific spaces. The St. Vrain Valley School District philosophy of Curriculum and Instruction recognizes the need for flexibility and reaffirms the belief that all students can and will learn when curriculum and assessment concurrently:

- Emphasize the learning process as preeminent.
- Create an interactive environment.
- Develop positive self-perception, attitudes and pride.
- Enable independent and group learning.
- Build on experiences, research and continuous programs evaluation.
- The District uses research-based instructional strategies to meet the diverse learning needs of all students.

The middle school facility must be designed and constructed to encourage students, parents and teachers to employ the District's philosophy of Curriculum and Instruction.

Resources:

St. Vrain Valley School District Website

www.stvrain.k12.co.us.

www.stvrain.k12.co.us/academicprograms/standards_2005

PLANNING PROCESS

In February of 2008, a collaborative effort between the Operations & Maintenance and the Curriculum & Assessment departments began the process to develop Middle School Education Specifications.

Initial meetings were facilitated to define purpose, process and vision for the Educational Specification document. Upon receiving approval and support from the Superintendent of Schools, the core team structured planning sessions with key planning directors to address the District-wide planning philosophies for the following areas: (refer to page 3 for district-wide planning statements).

- Curriculum and Instruction
- Technology
- Special Education
- Physical Education/Athletics

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- Transportation
- Food Service
- Temporary Facilities
- Maintenance
- Custodial

Meetings were also established to discuss content with focus groups of administrators and faculty. The focus groups were established with the following content categories:

- Science
- Mathematics
- Social Studies
- Language Arts
- Physical Education
- Music
- Art
- Special Education

Subsequent meetings were held with District Administrators to communicate, seek input and confirm the development of the educational specification.

Upon a final review of the Education Specification by the core team, business and community, and District administrators, an evaluation of existing elementary schools within the District will be implemented. This educational specification will serve as a baseline for existing facility analysis.

MODIFICATIONS TO EDUCATIONAL SPECIFICATIONS

Modifications of this document shall be made with approval of the Operations and Maintenance department for the District. Modifications will be issued as addenda's to this base document. Each department head involved in the planning of this document will receive a copy.

DISTRICT-WIDE PLANNING PHILOSOPHIES

SIZE OF NEW MIDDLE SCHOOL FACILITIES

St. Vrain Valley School District recognizes early adolescents as a unique period of transition for the middle level students. The social-emotional needs are important as the student develops an expanded sense of self. Recognizing the correlation between a positive school climate and student achievement, the middle school should offer a safe, structured, and caring environment. The Educational Specification for the District is based upon a student capacity of 750-1200 students. The educational specification will describe the spaces in a manner to create intimate learning communities for each student.

TEMPORARY FACILITIES

Temporary facilities are necessitated as a direct outcome of efficient or inefficient building utilization and/or growth. Historically, temporary facilities have been provided to accommodate short-term enrollment “bubbles” in excess of the permanent building capacity or to house “displaced” students because of new program additions. It has been the District philosophy to utilize temporaries in lieu of permanent additions so that ideal building capacity models can be maintained. As new facilities are built, the need for temporary facilities should be reduced and ultimately eliminated.

Temporary facilities provide flexibility and reasonable low initial cost. Inevitably, the District deals with the negative public perception, high life cycle cost and the reluctance to remove them from existing sites.

In planning for new facilities it would be unreasonable not to provide the necessary provisions to allow the implementation of mobiles on-site. The current District planning philosophy is to construct new facilities with built-in flexibility to prolong the need to implement temporary facilities to accommodate increases in student population.

St. Vrain Valley School District has developed policies regarding school capacity mitigation. They can be accessed on the St. Vrain Valley School District website.

St. Vrain Valley School District School Capacity Mitigation
<http://www.stvrain.k12.co.us/policies/F/FC.pdf>

St. Vrain Valley School District Capacity Mitigation Process
<http://www.stvrain.k12.co.us/policies/F/FC-R.pdf>

TRANSPORTATION

As a District policy, all students outside the current walking distance (2-1/2 miles) will be eligible to ride a bus. Students within the designated walking distance will be provided bus service if there are not safe trails available to their school. The District enjoys the benefit of a transportation program that is embraced by the parent community. As the District continues to grow, the overall philosophy is to accommodate growth and implement modifications with minimum impact on the student. Critical planning issues influence the effectiveness of the District’s transportation plan, they include: site location (central to neighborhoods), attendance boundaries, bell times, “center” programs and operational budgets. Each middle school site should accommodate 10 full size buses in a separate bus drop-off lane from the parent drop off lane and staff/visitor parking lots.

Resources:

St. Vrain Valley School District Website, District Policies, Walkers and Riders.
www.stvrain.k12.co.us/policies/E/EEAA.pdf

MAINTENANCE

The District strives to balance the desire to provide the correct balance between first cost vs. life cycle cost issues. The District implemented “Technical Specifications” to provide uniform and consistent quality standards for new and existing facilities. As the District continues to grow, the overall philosophy is to maximize available operations based upon funding available. Critical planning issues that influence the effectiveness of the District’s maintenance plan include, the number of students attending each facility, quality of materials and systems that comprise the infrastructure of the facility and the ability to provide personnel resources on a consistent proactive/preventive basis.

FOOD SERVICE

The District policy requires that space be provided on-site to accommodate lunch programs that are operated by the Nutritional Services department. The District endeavors to provide adequate facilities to accommodate programs and to standardize the delivery methods throughout the middle school facilities. Therefore, it serves the District’s interest to establish prototype planning criteria, layouts and delivery programs for the food service areas for new and existing facilities.

JOINT-USE/PARTNERSHIPS

The District has a policy to make school facilities available for public uses to the greatest extent possible without infringing on their primary purpose, the education of students. Fees are collected to defray the additional costs for public use and increase maintenance requirements.

Although the District continues to improve its relationship with all municipalities within the district boundaries, the ability to embrace or expand existing joint-use partnership will be periodically evaluated independently of other district facilities.

TECHNOLOGY INTEGRATION

The District envisions a learning environment in which the tools of technology maximize teaching and learning, and serve as a catalyst to broaden the educational experience. Specific areas of focus for technology integration include instruction, communication, administration and support. The vision is to create learner-centered environments through the effective use of differing technologies and to provide access to assessment results for the educators use and to provide trained technicians and personnel to support on-site staff.

SVVSD’s Educational Technology Information Literacy (ETIL) Plan works to support the district’s mission “To educate each student in a safe learning environment so that they may develop to their highest potential and become contributing citizens.” The ETIL Plan goal is to develop a student’s mastery and effective use of the following skills:

- Critical thinking
- Problem solving
- Communication
- Collaboration
- Creativity
- Self-directed learning
- Information & media literacy
- Accountability & adaptability
- Social responsibility *

Resources:

* Educational Technology / Information Literacy Plan 2007-2011, St. Vrain Valley School District, June 2007.

www.stvrain.k12.co.us/departments/information/services/educationaltechnologyinformationliteracyplan

CURRICULUM & ASSESSMENT

The academic program at the elementary level offers a balanced curriculum that provides continuing emphasis on basic skills with the core curriculum. High school facilities designed to accommodate smaller learning communities enable the District to provide larger facilities while preserving intimate instructional programs.

ATHLETIC PROGRAMS

The District policy is to educate the total body (sound mind and body) with safe and wholesome activities. The athletic programs offered involve the student in extra curricular activities which affords the student the opportunity to represent their school and community. The District believes that every student has the opportunity to participate in athletic programs if desired. Current philosophy is to provide exterior practice facilities, not necessarily competition quality facilities. The middle school athletic programs include boy's wrestling, girl's volleyball, boy's and girl's track, and boy's and girl's basketball.

SPECIAL EDUCATION

Special education programming (services) for students with educational disabilities in the SVVSD stems from the intent of the "least restrictive environment" (LRE) portion of the Individuals with Disabilities Education Act (IDEA). LRE requires that a student with disabilities be educated with students who do not have disabilities, unless the nature or severity of the disability is such that education in regular classes with the use of supplementary aids and services cannot be achieved satisfactorily. The District's philosophy relative to "inclusion" stems from the LRE section of the law. It is SVVSD's belief that students with disabilities should be educated with their typical peers, unless their needs are better addressed through amore specialized educational environment.

It's also the District's belief that special education is not a place, but rather a variety of services for students with disabilities (i.e. it is an array of resources for schools, not an educational system separate from regular education). *

*** Resource:**

St. Vrain Valley School District Website, Academics & Programs, Special Needs.

www.stvrain.k12.co.us/academicprograms/specialneeds.php

ALTERNATIVE PROGRAMS –FOCUS SCHOOLS

The district implements and supports two (2) levels of alternative programs; site based and district-wide programs. In the future, the District may choose to emphasize site based programs. Currently, sites based programs lack adequate funding but are recognized as highly effective models of education. As the District grows additional facilities will need to be planned to accommodate needs for district-wide programs located in the northern portion of the District.

SAFETY AND SECURITY

The District continues to establish a comprehensive approach to reduce youth violence and increase students' educational success. Crime Prevention Through Environmental Design

(CPTED) is a design approach, which emphasizes the effective use of the built environment in reducing incidents of crime. CPTED focuses on prevention, rather than apprehension and punishment. St. Vrain Valley School District follows these principals in the requirements for their schools.

SVVSD also complies with the Colorado School Districts Self Insurance Pool Site Safety Checklist.

Planning and evaluation of schools should include Law Enforcement and Emergency Agencies in the process. Issues to coordinate include the following:

General

- Fire Department access and hydrant locations
- Location of fire entrance, knock box, control panel, etc.
- Police and sheriff emergency procedures for intruder defense.
- Emergency vehicle access.
- Disaster and crisis policies.

Site

- Separate all parking lots and means of transportation/egress.
- Avoid north entries or any pedestrian walks where shadows can contribute to snow and ice build up.
- Provide proper drainage at all entries and walks.
- Locate the administration area adjacent to the main entry with a clear line of sight to all visitors entering the building and visitors parking.
- Provide adequate lighting at all entries and exits for all before and after hours activities.
- All outdoor educational and recreational spaces shall be fenced with access control.

Access Control

- Provide the minimum amount of entries and exits
- Visitor's access to the building must pass through the administration area.
- Coordinate all access hardware and security cameras with SVVSD security.

Supervision and Security Systems

- All corridors to provide a direct line of sight.
- Avoid alcoves and recesses in circulation and common areas that cannot be easily supervised.
- Consult SVVSD Safety & Security for security systems and camera locations.

Resources:

Crime Prevention through Environmental Design (CPTED)

http://www.victoria.ca/common/pdfs/planning_cepted.pdf

Colorado School Districts Self Insurance Pool Site Safety Checklist

<http://www.csdslip.net/documents/SelfInspectionForm.pdf>

MIDDLE SCHOOL PHILOSOPHY

The Middle Level Philosophy proposed here includes recommendations based on:

1. The original research done and used to implement the middle school program in the district.
2. Updated research in the field of middle level education.
3. The expectations of the State of Colorado and the St. Vrain Valley School District in relation to Content Standards, Strategic Plan Goals, Accountability and Performance Expectations. These are the characteristics of the proposed Adams Twelve Five Star Schools Middle Schools Program.

CONTINUOUS ACADEMIC PROGRESS: Academic achievement in the core content standards of Language Arts, Science, and Math will be the primary focus of the Middle Level Program. The program will be organized in a manner that provides sequential learning activities for students to progress in the core content standards, at their ability rate. Remediation and acceleration opportunities will be provided in these core content areas through Academic Extension offerings. In addition, all course offerings, including those in the Expansions Program, will include reinforcement of reading, writing, oral communication, listening, and computation skills.

VARIETY OF INSTRUCTIONAL STRATEGIES AND MATERIALS: The middle level school instructional program will employ a variety of instructional strategies rather than exclusive elevation of one particular strategy over all others. A broad variety of instructional materials will be used to facilitate meeting the diverse learning styles of middle level students. Classroom activities should be planned around a variety of instructional strategies rather than textbook organization.

FLEXIBLE SCHEDULES: The middle level schedule should be flexible in its organization. A variety of time units and instructional groups should be used that allow for a variety of activities suited to educational needs of the students.

BASIC SKILL REPAIR AND EXTENSION: The middle level school program should provide opportunities for students to receive help in learning basic skills. The special services of remediation teachers should be available to all students needing such instruction. The basic education program fostered in elementary school should be extended in the middle school program.

EVALUATION: The middle level school program should provide positive, individualized, non-threatening evaluation of student's progress that is based on the personal learning of the individual student. Regular provisions must be made that allow the student and parent to be aware of the progress the student is making towards becoming a self-directed learner and toward meeting student achievement goals in the content standards. The middle level student should be allowed to assess his own progress and plan for future progress.

INTERDISCIPLINARY INSTRUCTIONAL PROGRAM: The middle level school program should provide a means of organizing instruction so that planning, teaching, and evaluation of student achievement is coordinated by a group of staff members who share responsibility for the integrated instruction of students, in more than one content area.

VERTICAL PLANNING: The middle level program should provide experiences that are articulated in a fashion that facilitates the student making the transition from dependent child to an independent adult. The middle level school should help the student bridge the gap between elementary and high school through exploratory opportunities.

EXPLORATORY STUDIES: The middle level program should provide a wide variety of educational opportunities to meet the individual interests of students, while staying focused on achieving the core content standards. The program should broaden the experiences of the students.

INDEPENDENT STUDY: The middle level program should provide opportunities for students to spend time, under the guidance of an adult, exploring individual interest. Such “enrichment” activities may be provided through an organized program or by individual student study on a topic of a specific personal interest.

SOCIAL EXPERIENCES: The middle level program should provide experiences appropriate for the social development of middle school youth and should duplicate neither the social experience of the senior high school nor the elementary school.

PHYSICAL EXPERIENCES: The middle school curricular and co-curricular programs should provide physical activities based on the students’ needs. Involvement as a participant rather than a spectator is critical for all students.

CREATIVE EXPERIENCES: The middle level program should provide opportunities for students to express themselves in creative ways. Provisions should exist in the program that encourages students to select, conceive, plan, and carry out activities that allow for free self-expression.

ACTIVITIES: The middle level program should provide a broad range of activities for all students as part of the total instructional program of the school. The middle program should feature participation based interscholastic activities.

MIDDLE LEVEL INSTRUCTIONAL STAFF: The middle level school should be staffed by educators that are qualified to teach in their content area of instruction, at the middle level and aware of and sensitive to the unique characteristics of middle level youth.

STUDENT SERVICES: The middle level school should provide a broad spectrum of special services for students. Community, county and state agencies should be used to expand the range of specialists available in the school, to the broadest level.

GUIDANCE SERVICES: The middle school program should provide both group and individualized guidance services for all students. Provisions for such services must be highly individualized and personal in nature. Both teachers and trained guidance counselors should provide these services.

COMMUNITY RELATIONS: The middle school should develop and maintain a varied and continuous program of community relations. A continuous presentation of information about the school keeps the community informed about the unique role of the middle level school. Provisions should be made in the middle level program that provides for parent involvement in the activities of the school.

GENERAL PLANNING CONSIDERATIONS

SITE DEVELOPMENT GUIDELINES

Disqualifying Features - One or more of the following features on, or immediately adjacent to the site, may disqualify a proposed site:

- Select sites that allow the building to be above the play fields for supervision and proper drainage.
- Landfill
- Hazardous waste
- Within 100 yards of a wetland or in below the 100 year flood plain.
- Within 50 yards of a water body.
- Retention pond (standing water)
- Identified as habitat for any species on the Federal or State endangered species list
- Violation of airport influence area criteria
- High voltage power transmission line(s)
- High pressure gas transmission line(s)
- Railroad line(s)
- Regional highways or expressways
- Easement(s) which bisect the site
- Zoning, or land-use designations including industrial, commercial, or transportation

Further consideration of a site which includes any of the features cited above should be based on an analysis of the impact of these features on the health and life-safety of proposed tenants, and the assurance that any negative impact can be effectively, efficiently and economically mitigated.

Joint-use - Selection of sites adjacent to the following features is encouraged:

- Public open space
- Public parks
- Public facilities, such as libraries or recreational facilities
- Community, or neighborhood, focal points

Size of Site - Adequate space is required to accommodate the specified school capacity, plus temporary facilities, and future expansion as defined by the following table:

| <u>School Type</u> | <u>Approx. Sq. Ft.</u> | <u>Student Capacity</u> | <u>Usable Acreage</u> |
|--------------------|------------------------|-------------------------|-----------------------|
| Middle | 120,000 - 140,000 | 750-1250 | 20 - 30 |

The following land areas should not be included in the calculation of usable acreage:

- Drainage ways, detention ponds, or wetlands
- Slopes greater than 5 percent
- Intrusive easements or rights-of-way

Space requirements may be adjusted based on an analysis of joint-use facilities, parking, and play fields.

Resources:

Janell Weihls "School Site Size – How Many Acres are Necessary."
CEFPI Issue Track, September 2003.

www.cefpj.org/pop/stat_guidelines.pdf

Configuration of Site - The configuration of the site should accommodate structures with minimal site adaptation, as well as, bus and auto drop-off areas, parking, bicycle storage, playground equipment, athletic fields and play fields. To allow maximum utilization of the site, the geometry of the site should be approximately rectangular (length to width ratio of less than 1.67), and relatively flat (1 to 3.5 percent slope). Depending on the geography of the site, work to locate the building above the play fields for supervision and proper drainage. Avoid a north entry into the building and minimize shadows on walkways and drives to reduce ice and snow buildup.

Site Location - The site should be central to the population served, properly spaced in relation to other District facilities, and aligned with feeder school boundaries. Select sites that are within ½ mile of 10 basic services (existing or planned) and public transportation (existing or planned).

Access and Traffic Flow - The site should optimize the opportunity for pedestrian and bicycle access, and minimizing the need for motorized transportation. **“School Site Access Guidelines”** developed for Douglas County by Carter Burgess (May 1997) are adopted by reference and are also in compliance with Americans with Disabilities Amendment access.

On-site parking should be based on the following guidelines:

| School Type | Student | Staff / Faculty Parking | Parent Drop Off / Visitor Parking | Buses |
|----------------------------|---------|-------------------------|-----------------------------------|-------|
| 750 Student Middle School | NA | 100 | 28 / 10 | 8 |
| 975 Student Middle School | NA | 200 | 36 / 12 | 9 |
| 1200 Student Middle School | NA | 250 | 44 / 15 | 10 |

The site should accommodate a fenced concrete pad for the temporary storage of bicycles. The pad should provide approximately 1.5 square feet of surface area per student. In addition, the site should accommodate storage of athletic and maintenance equipment. For preliminary planning purposes, allocate 1 square foot of surface area per student for storage structures.

Comply with the section on Safety and Security. Separate access for staff/visitor parking, parent drop off and bus drop-off areas. Service vehicles may share the same driveway and parking lot with buses. However, if it is necessary for service vehicles to access the building through the staff and visitor parking area, provide a separate driveway, or paved area with access to the loading dock and service entrance to the building. Allow adequate turn around and back-up space for trash and delivery trucks.

Provide access for emergency vehicles in accordance with adopted codes and standards, and approval of the authority having jurisdiction.

Crosswalks and walkways must be provided to expedite the secure flow of students and patrons to and from school. Student walking areas must be made secure from vehicular traffic. Walkways should be 6' wide to accommodate snow removal equipment.

Temporary Facilities -The site should be large enough to accommodate the set-up of four 2 classroom temporary structures (mobiles). For preliminary planning purposes, temporary structures are typically 24 feet wide by 40 feet long. Temporary structures will be located on flat hard surfaced pads and serviced by underground utilities.

Geo-technical Investigation - A geo-technical investigation of the site shall be performed prior to acceptance of the site. The investigation shall determine sub-surface soil conditions, evaluate any environmental issues which have previously been identified, and determine the depth to ground water. The geo-technical report shall be submitted to the Colorado Geological Survey for review and approval prior to acceptance of the site.

Site Improvements - The site should accommodate other site improvements, including playgrounds, play fields, and joint-use facilities as defined by the Physical Education section of the District Educational Specifications and/or inter-governmental agreements.

The site should be accessible by means of a paved street(s) prior to construction of the school. Furthermore, all utilities should be extended to the site. The site, and surrounding property, should be graded.

Grounds and Landscaping – Physical Education and athletic areas should be completely sodded and equipped with an automatic sprinkler and timer system. The balance of the site should be landscaped with the idea of reducing potable water usage by 50% (LEED for Schools 2007, Credit WE 1.1). The use of large ten pound decorative stone that is keystoned into the ground or neutral color breeze is to be provided in a 5 foot wide non-irrigation zone around the entire perimeter of the building. Consider maintenance requirements of vegetation at all times. Slopes should not exceed 3:1 for mowing and tree/shrub spacing should accommodate riding mowers.

Vegetation should be planned in a manner that will not conceal intruders, especially along walkways, recreational, and instructional areas. Reference Crime Prevention Through Environmental Design (CPTED).

Emphasis should be made to develop outdoor learning environments whether they are natural areas for science programs or hardscape amphitheatres for lectures.

Site Program Requirements -

- Bus loading – The number of buses will vary widely, depending upon the site location, but the average is 10.
- Parent Drop Off - Separate drop off lane for parents to drop off students in close proximity to the main entrance is required. Size the length of the drop off lane as indicated in the table above in the Access and Flow section.
- Bike Pad and enclosure – Provide 1000 s.f. for bicycle storage.
- Temporary Classroom area – Provide space for four (4) temporary classroom buildings (24' x 40'). Separate each modular classroom by 20' in each direction.
- Provide underground vaults with conduit stubbed-in for electrical, power, gas, security, telephones, clock, paging system cable television and computer network systems.
- Provide an enclosure for (2) 6 yard dumpsters for recycling, (1) 6 yard dumpster for trash.
- Provide building monument signage at main entrance.
- Provide play and athletic fields as indicated in the Physical Education Section of this specification.
- Provide apparatus areas for Intermediate play area.

Intermediate play pad shall be approx. 10 - 14,000 sf of asphalt play pad. Paint lines to accommodate the following actives:

- 6 basketball goals
- 4 tetherball courts
- 4 volleyball courts
- 4 foursquare courts

Resources:

LEED for Schools for New Construction and Major Renovations, Version 2007, U.S. Green Building Council.

www.usgbc.org/DisplayPage.aspx?CMSPageID=1586

The Collaborative for High Performance Schools Best Practices Manual "Daylighting" pages 204-221.

www.chps.net/manual/index.htm#BPM

Crime Prevention through Environmental Design (CPTED)

http://www.victoria.ca/common/pdfs/planning_cepted.pdf

BUILDING GUIDELINES

Building Orientation - Climate in Colorado dictates a southern orientation to main entries in the building, if possible. Such orientation will allow maximum benefit from winter sun and protection from northwesterly and northeasterly winter winds. A preferred orientation is along an east-west axis which will maximize daylight and optimize the prevailing south-southeast winds for summer cooling. Orientation should also provide for maximum visual impact of the facility from the passing public.

Resource:

National Weather Service, Normals and Means 1971-2000, Extremes 1872-Present (Updated 6/30/2005), Denver International Airport, CO., Lat. 39.52N, Lon. 104.40W, Elev. 5431 FT.

www.crh.noaa.gov/bou/cli/normals.php

Exterior Character – It is the intention of the District to construct and maintain school facilities for 50-75 years. Therefore, the District prefers to use brick as the primary material for the exterior of the building. The District will consider alternate wall materials if located away from potential damage. Flat roofs are economical to install, however they require on-going maintenance. Pitched roofs are more expensive to construct, but are more economical to maintain. Pitched roofs can also be a strong aesthetic element and should be considered in the exterior design, as appropriate to project economics.

Exterior plazas should be used to provide access from parking and bus unloading areas. These plazas will serve as transitions from the exterior to the interior; they will also serve as exterior gathering and social spaces as weather permits. Lighting will add to the dynamics of plazas during the evening and nighttime visitations to the facility.

Flexibility - The facility must be able to adapt and adjust to evolving pedagogical changes and demographic shifts in the community. Planning in the design for an uncertain future of population surges, program transformations, and economic disruptions is essential.

Corridors – Corridors should be direct, simple and logical as a way-finding system into and

through the building.

- Vestibules are required at high use entrances and exits only.
- Preferred wall finish in corridors shall be 48" high masonry wainscot veneer; the optional wall finish will be high impact gypsum board on the lower 48" with the remainder of the wall finished with standard drywall finish. All exterior corners shall have corner guards.
- Provide a built-in lighted general display cabinet in the Main entrance lobby corridor.
- Provide 200-300 s.f. of tackable surface at 3 or 4 prominent locations the main corridor.
- Corridor lighting shall be 30-foot candles at 36 inches above the floor.
- Drinking fountains should be strategically located throughout the building. These fountains should meet ADA requirements.
- Minimum widths of corridors:
 - Main Corridor without lockers – 12'-0"
 - Main Corridor with lockers on one side – 14'-0"
 - Main Corridor with lockers on both sides – 16'-0"
 - Secondary Corridor without lockers – 8'-0"
 - Secondary Corridor with lockers on one side – 10'-0"
 - Secondary Corridor with lockers on both sides – 12'-0"

Lockers - Individual lockers are desirable for students. They must be large enough to accommodate winter clothing, as well as books and materials. Student lockers should be configured to provide ease of supervision. Consideration should be given to locating lockers within the Academic Suite to encourage the social interaction and proper supervision. **Do not locate lockers within classrooms.**

Moveable Walls – Flexibility is key to the success of a middle school program. In the academic suites, moveable walls divide three (3) pairs of general classrooms. In many situations the walls must be open and closed on a daily basis. Provide moveable walls of the highest quality with their own structural support.

Windows Natural light should be utilized throughout the building. Studies have produced significant data on the increase of student productivity with proper daylighting*. Window should be carefully designed for purposes of lighting, aesthetics, and energy efficiency. Northern exposure for daylight should be maximized, while east, west, and south exposures need to be sized appropriately to reduce glare (reference LEED for Schools 2007, Credit EQ 8.1). Sills should be low maintenance and sill heights shall be coordinated with equipment or casework, which may be placed in front of the window opening. Shades or blinds should be provided where natural light is allowed to enter into an instructional area (except at the Gymnasium and Aux. Gym).

Acoustics – Learning environments require proper acoustics. Quieter environments increase intelligibility, aid students with hearing disabilities, promote a calmer atmosphere to enable the instructor to be more effective.

Design Principles:

- Reduce level of background noise to approximately 35 decibels**.
- Reduce noise from HVAC units
 - Locate HVAC units outside of classrooms and at a proper distance to isolate machine noise.
 - Avoid locating any HVAC unit above classroom.
- Reduce sound infiltration from the exterior.
- Off set doors to classrooms across corridors

- Utilize soft floor surfaces and suspended acoustical ceilings to reduce impact noise and provide proper reverberation times.
- Locate noisy spaces such as gymnasium and cafeteria away from classrooms.

Mechanical and Electrical Systems – A school is a structure that is intended to serve the community for a minimum of fifty (50) years. Providing flexibility and quality in the design of these systems will increase building cost and must be carefully considered in evaluation of life cycle impact and long-term return on additional capital dollars invested. The District advocates the implementation of sustainable design principals as identified in LEED for Schools 2007 and they should be incorporated into the design solution.

Energy Guidelines - System Performance Criteria: Exceed ASHRAE 90.1 by 50%. Achieve Energy Star rating of 75 or better.

Central Plant: All school shall us ultra-high efficiency condensing boiler. The boiler plan shall be sized to serve two-thirds (2/3) of the design heating load of the building. Boiler capacity at 28-30 btuh/s.f.

Cooling System: Cooling load shall be 1 ton/1000sf (Conventional school construction for chilled water system is 2 ton/1000sf).

Lighting System: St. Vrain Valley School District would like to exceed the requirements of 1.5watt/sf, as recommended by ASHRAE's energy standard. Design requirement shall be 0.5 watts/so (daytime) and 0.8 watts/so (nighttime). Controls: All lighting systems with occupancy sensors that are used for HVAC equipment describe above shall also control lighting systems. In addition, all offices and restrooms shall have occupancy sensors that turn lights on when someone enters the room for a period of 30 min. (adjustable).

Daylighting: SVVSD would like to take advantages of the daylighting opportunities wherever the design team would believe to be appropriate. SVVSD prefers the use of manual switching to control daylighting rather than problematic automatic sensing systems for daylight control of artificial lighting systems.

Additional Energy Efficient Design Strategies for Consideration:

- Micro-load building
- Variable Frequency Drive Motors
- Thermal Ice Storage
- Daylighting & Controls
- GeoExchange Systems
- Shared Raw Water Systems

Resource:

* Heschong Mahone Group (1999). Daylighting in Schools. An investigation into the relationship between daylight and human performance. Detailed Report. Fair Oaks , CA. www.h-m-g.com

Heschong Mahone Group (2001) Re-Analysis Report, Daylighting in Schools, for the California Energy Commission, published by New Buildings Institute, www.newbuildings.org/pier

LEED for Schools for New Construction and Major Renovations, Version 2007, U.S. Green Building Council.

www.usqbc.org/DisplayPage.aspx?CMSPageID=1586

The Collaborative for High Performance Schools Best Practices Manual “Daylighting” pages 204-221.

www.chps.net/manual/index.htm#BPM

**ANSI S12.60-2002 American National Standard Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools.

<http://www.ansi.org>

Erderich, John Ph.D. “Classroom Acoustics.” CEFPI Brief on Educational Facility Issues. June 1999. CEFPI The School Building Association. October 20, 2004

<http://www.cefpi.org/pdf/issue9.pdf>

TECHNOLOGY GUIDELINES

In 2006 St. Vrain Valley School District started a planning process to look at ways to collaborate between district departments, improve and support information and technology literacy throughout the District and determine measurements to demonstrate success. This resulted in changes to departments and organization, procedures, and policies district wide. The Educational Technology Information Literacy (ETIL) was authored in June of 2007 as a policy for implementation of technology in the district.

Video Guidelines – Outlet Locations:

- Classrooms - provide one (1) drop per classroom. Locate at front of classroom.
- Library Media Center - provide two (2) in the Instructional/Stack area.
- Gymnasium & Aux. Gym – provide one drop, locate to minimize damage to monitor
- Cafetorium – provide two (2) drops; locate to provide adequate coverage of the space.
- Teacher Work Areas – provide one drop per work area.
- Administration Area – provide one drop in the reception area
- Student Service Area – provide one drop in the reception area
- Administrative Conference Rm. – provide one drop

The following drops will be used for monitors. Provide additional drops located 18” AFF to accommodate a video camera for the following areas:

- Cafetorium
- Gymnasium
- Administration conference room
- Library Media Center
- Computer Lab
- Flex Area within each Academic Suite

Voice (Telephone) Guidelines – Outlet Locations:

- Classrooms - provide one drop per classroom.
- Library Media Center - provide one drop at circulation desk, workroom, and media specialist office.
- Special Programs – Provide one per classroom and office.
- Gymnasium & Aux. Gym – provide one per each office.
- Cafetorium – provide outlets at student store, office and at each point of sale for

- each service line.
- Teacher Work Areas – provide one drop per work area.
- Administration Area – provide one per office, conference room, health clinic and at each support workstation. Provide additional outlet for FAX and copier machines.
- Student Service Area – provide one per office, conference room, and at each support workstation. Provide additional outlet for FAX machine.

Data Guidelines – Outlet Locations:

- Classrooms - provide six (6) per classroom. Locate one on casework for printer, one at front of classroom and three associated with CPU workstations within each classroom.
- Library Media Center - provide two (2) at the circulation desk, one for the workroom, and media specialist office. Provide a minimum of five (5) locations adjacent to the circulation desk for look up stations and a minimum of eight (8) computers for internet research within the Instructional/Stack area. The LMC should be a wireless environment.
- Special Programs – Provide one per classroom and office.
- Gymnasium & Aux. Gym – provide one per each office. Provide one adjacent to each video outlet.
- Cafetorium – provide outlets at student store, office and one adjacent to the video outlet.
- Teacher Work Areas – provide one outlet per each workstation.
- Administration Area – provide one per office, conference room, health clinic and at each support workstation.
- Computer Labs – provide a min. of sixteen to thirty-two (16-32) depending upon lab configuration.
- Student Service Area – provide one per office, conference room, and at each support workstation

PROGRAM MODIFICATONS for EXISTING FACILITES

It is the intention of the District to utilize this Educational Specification as a outline of the basic facility design requirements and guidelines for existing and future Middle Schools. To facilitate an analysis of the existing facilities within the District the use of this document will be implemented as a planning guideline to determine the overall capacity of the existing schools.

As such, there are some areas, which will be less flexible or adaptable to modifications in an effort to meet these design requirements (i.e. Gymnasium, etc.) Existing conditions may prevent facilities to be expanded, therefore the District may consider reducing the stated capacity of the school or make adjustments in the curriculum offerings to accommodate physical limitation of the building. Such influences, as the following will need to be considered at the time of evaluation:

Changes in the Curriculum - Curriculum offerings and the requirement to provide community based schools will alter some of the core decisions past administrations have implemented. The need to decentralize a special needs program back into neighborhood schools is a good example.

Change of Technologies - Technology changes as quickly as we implement it, therefore old technologies and the space required to support it will impact the overall efficiency of the school.

Available Funding – Funding has a definite impact upon facilities, it impacts, quality and quantity issues. Based upon the funding at the time the facility was built, the funding available will have a direct correlation with the adaptability of the school.

Functional Changes – Some space may have been designed to accommodate a desired function and through time the need or the function has changed, thereby reducing the efficiency of the space.

LEARNING COMMUNITIES

Space Description:

The distinguishing characteristic of middle schools is to create student communities and teacher teams that work together to achieve academic and personal goals. Each teaching team will provide instruction in the following disciplines: science, mathematics, language arts and social studies. Within each Learning Community, the faculty may be organized around 2, 3, and 4 teacher teams. Flexibility of spaces to support variable teams is important. Communities are to be contiguous spaces for learning comprised of two (2) teaching teams designed as an identifiable unit within the school for self-contained academic instruction. Within each community one (1) science room of two (2) will be designated to accommodate a higher level of lab activities.

This building program has been developed with three (3) Learning Communities supporting a middle school program. The Learning Community will support various numbers of teaching teams, depended on the student population of the middle school. In the design capacity for each classroom is 28 students. To further reinforce the student community concept, a flexible learning area and a small group room are integral spaces of the Learning Community. To support the social interaction of each student community, student lockers will be located in close proximity.

The development of for (3) Learning Community enables the district to respond to a variety of organizational structures. Communities can be used for grade-level groupings, or multi-age/grade groupings (6th-8th grade). At this time the educational specification is developed with the assumption of grade level teams in each Learning Community.

Each Learning Community includes the following spaces:

- A. General Classrooms
- B. Science Labs
- C. Science Prep. Area
- D. Literacy/E.L.L. Lab
- E. Small Group Room
- F. Book Storage
- G. General Storage
- H. Teacher Work Area
- I. Staff Toilet

Design Criteria:

A. General Classrooms

General Requirements:

- For each teacher team, provide an operable wall between two of the three general classrooms. Verify proper exiting distance when rooms are combined occupancy.
- Provide natural daylight into all classroom spaces. Provide window coverings to reduce light level to 5 foot-candles. For AV presentations.

- Wherever possible, provide sidelights at classroom doors.

Casework Criteria:

- Provide a minimum of 12 l.f. of base cabinets, 30" deep work surfaces at a height of 36" AFF (90 cu.ft.). Provide a minimum of 10 l.f. of upper cabinets, 15" deep at a 30" height (32 cu.ft.). In addition to this requirement, provide four (4) computer workstations within the general classrooms. Counter depth shall be 30" deep, 28" AFF.
- Provide a TV monitor and audiovisual equipment.

Furnishings Criteria:

- Student desk/table and chairs, by Owner
- Waste basket, by Owner

Equipment Criteria:

- TV monitor, by Owner. Assume the maximum monitor size to be 32" diagonal.
- Projection screens and ceiling mounted projector, if required, by Owner
- Smart boards, if required, by Owner
- Document Camera, if required by Owner
- Provide 4'x16' marker board with marker rail and 4'x4' tack board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Electrical Criteria:

- Provide outlets spaced on all perimeter walls and for associated computer equipment. Provide one 20 amp circuit per 4 CPU workstations.
- Locate clock and speaker on the wall perpendicular to the front instructional wall.

Technology Criteria:

- In addition to data terminals at the CPU stations, provide a data terminal at front of classroom and one for a printer.

B. Science Lab

General Requirements:

- Provide two (2) science labs per each learning community. One of the two labs is to be an advanced science lab, which includes all components as a general science lab with proper power for hot plates at each work station.
- Science classrooms to have base and upper cabinets located around the perimeter of the room to enable the center of the room to be used as a flexible instructional setting.
- Provide natural daylight and view windows into all classroom spaces. Provide window coverings to reduce light level to 5 foot-candles. For AV presentations.

- Provide eye/shower wash station.
- Wherever possible, provide sidelights at classroom doors.
- Provide direct access to the exterior if on grade level.

Casework Criteria:

- Provide perimeter casework enabling eight (8) four-person teams to work on projects. Provide a CPU station at each workstation. Provide ADA accessible workstation for each lab.
- Cabinets shall be plastic laminates with chemical resistant plastic laminate for the work surface.
- Provide a demonstration island at the front of the classroom.
- Casework shall be 30" deep work surfaces at a height of 36" AFF. Consideration should be given to establish a common work surface height of 34" AFF to accommodate ADA accessibility requirements.
- Provide a TV monitor and audiovisual equipment.

Furnishings Criteria:

- Student tables (2 ft. x 4 ft.) and chairs, by Owner
- Waste baskets, by Owner

Equipment Criteria:

- Flat Screen TV monitor, by Owner. Assume maximum monitor size to be 32" diagonal.
- Projection screens, if required, by Owner
- Smart boards, if required, by Owner
- Document Camera, if required by Owner
- Provide 4'x16' marker board with marker rail and 4'x4' tack board.

Signage Criteria: Provide ADA acceptable room identification and exit signs as required by the design of the facility. Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- Provide dedicated exhaust system for all science rooms and a dedicated fan directly over the demonstration island. Controls to be located at demonstration island.
- Provide three (3) stainless steel, single compartment sinks, plus one in the demonstration island. Provide cold and hot water.

Electrical Criteria:

- Provide power and data raceway system on all perimeter walls with casework. Otherwise provide power outlets 8' o.c. Provide one 20 amp circuit per 4 CPU workstations.
- Retractable electrical outlets in the ceiling – total of eight (8).
- Locate clock and speaker on the wall perpendicular to the front instructional wall.

Technology Criteria: Provide data terminal at front of classroom and at each CPU workstation.

C. Science Prep. Area

General Requirements:

- A preparation area should be located between Science Lab and Science/Flex Classroom.
- Provide direct access from Prep. Area into the Science Rooms.
- Locate master electrical controls for the Science Lab in the Prep Area. Provide space for one full-height refrigerator and an undercounter dishwasher.
- If feasible, provide natural daylight into Prep Area.
- Provide eye/shower wash station.

Casework Criteria:

- Provide perimeter base and upper cabinets, casework shall be 30" deep work surfaces at a height of 36" AFF. Consideration should be given to modify work counter height to 34" to accommodate ADA accessibility requirements.
- Provide one 48" wide by 84" tall storage cabinet
- Provide under counter space for two (2) rolling project carts.
- Provide epoxy countertops.

Furnishings Criteria:

- Waste basket, by Owner

Equipment Criteria:

- Rolling project carts (2)
- Chemical cabinets, by Owner

Signage Criteria: Provide ADA acceptable room identification and exit signs as required by the design of the facility. Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- Provide dedicated exhaust system for the Prep Area with a dedicated exhaust fan.
- Provide a stainless steel, single compartment sink with acid resistant piping.

Electrical and Data Criteria:

- Provide power and data raceway system on all perimeter walls with casework.

D. Literacy/E.L.L. Lab

General Requirements:

- These classrooms are to be designed to enable multi-age, multi-grade students to receive independent instruction. Students will spend a part of their instructional day in the general classrooms and part in a pullout session within the resource room. The resource room will also be used to support instructional programs such as English as a Second Language, special needs programs, along with other programs requiring small group instruction.

Casework Criteria:

- Provide a minimum of 9 l.f. of base cabinets, 30" deep work surfaces at a height of 36" AFF (67 cu.ft.). In addition to this requirement, provide three (3) computer workstations within the general classrooms. Counter depth shall be 30" deep, 28" AFF.

- Provide a TV monitor and audiovisual equipment.
- Provide a stainless steel, single compartment sink, within casework requirements.

Furnishings Criteria:

- Student desk/table and chairs, by Owner
- Waste basket, by Owner

Equipment Criteria:

- TV monitor, by Owner. Assume maximum monitor size to be 32" diagonal.
- Projection screens, if required, by Owner
- Smart boards, if required, by Owner
- Document Camera, if required by Owner
- Provide 4'x12' marker board with marker rail and a 4'x4' tack board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Electrical Criteria:

- Provide outlets spaced on all perimeter walls and for associated computer equipment
- Locate clock and speaker on the wall perpendicular to the front instructional wall.

Technology Criteria:

- Provide data terminal at front of classroom and at each CPU workstation

E. Small Group Room

General Requirements:

- The room is used for small group instruction/study, project work area, individual instruction and study, testing and conferences. Provide visual access for supervision.

Casework Criteria:

- Provide a minimum of 6 l.f. of base and upper cabinets, 30" deep work surfaces at a height of 36" AFF (45 cu.ft).

Furnishings Criteria:

- Furnishing will be tables and chairs, by Owner
 - Waste basket, by Owner

Equipment Criteria:

- Provide 4'x12' marker board with marker rail and a 4'x4' tack board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility. Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials

shall be submitted to the Owner for review prior to installation.

Electrical Criteria:

- Provide outlets spaced on all perimeter walls and for associated computer equipment
- Locate clock and speaker on the wall perpendicular to the front instructional wall.

Technology Criteria:

- Provide data terminal at front of classroom and at each CPU workstation

F. Book Storage

General Requirements:

- The room provides storage for classroom book sets, resource books, instructional materials and AV equipment on carts.
- The book storage room should be located adjacent to the flex area. Provide double doors for easy access.
- Room to accommodate shelving along a min. of two walls.

Furnishings Criteria:

- Metal storage shelving, by Owner.

Signage Criteria: Provide ADA acceptable room identification and exit signs as required by the design of the facility.

G. General Storage

General Requirements:

- The room provides storage for classroom instructional materials and AV equipment on carts.
- The general storage room should be located adjacent to the flex area. Provide double doors for easy access.
- Room to accommodate shelving along a min. of two walls.

Furnishings Criteria:

- Metal storage shelving, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

H. Teacher Work Area

General Requirements:

- Locate teacher work area in a manner to maximize supervision of activities occurring within and adjacent to the Academic Suite.
- Provide 12 teacher workstations and 4 teacher aids.
- Provide windows with blinds for visual supervision.
- Provide direct access to conference room for parent/student meetings.
- Provide doors with view light for supervision.
- Provide direct access to staff toilets

Casework Criteria:

- Provide 6'-0" wide workstations, counter depth at workstations shall be 30".

- Provide 18” wide drawer unit for personal use.
- Provide 36” wide by 84” tall storage cabinet for coat storage.

Furnishings Criteria:

- Provide space for two (2) lateral file cabinets, by Owner.
- Provide chairs at workstations, by Owner
- Provide keyboard trays for workstations, by Owner

Equipment Criteria:

- Provide 4’x8’ marker board with marker rail and a 4’x4’ tack board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

I. Staff Toilets

General Requirements:

- Provide a single occupant handicapped accessible toilet room for each gender.

Signage Criteria: Provide ADA acceptable room identification sign.

Summary of Program Space:

| GENERAL CLASSROOM AREAS – 750 STUDENT MIDDLE SCHOOL | | | | | | | | |
|--|----------|------|---------------|-------------|-----------|----|-----------|------------|
| Typical Learning Community | | | | | | | | |
| General Classroom | 8 @ | 850 | 6,800 | | 8 TS | 28 | | 224 |
| Science Lab | 2 @ | 1100 | 2,200 | | | | | |
| Science Prep Area | 1 @ | 200 | 200 | | | | | |
| Literacy/E.L.L. Lab | 1 @ | 500 | 500 | | | | | |
| Small Group Rm. | 1 @ | 300 | 300 | | | | | |
| Book Storage | 1 @ | 150 | 150 | | | | | |
| General Storage | 1 @ | 120 | 120 | | | | | |
| Teacher Work Area | 1 @ | 500 | 500 | | | | | |
| Staff Toilet | 2 @ | 50 | 100 | | | | | |
| Total per Community | | | 10,870 | | 8 TS | | | 224 |
| Subtotal for all Communities | 3 | | 32,610 | S.F. | 24 | | TS | 672 |

Adjacency Diagram:

St. Vrain Valley School District



| GENERAL CLASSROOM AREAS – 975 STUDENT MIDDLE SCHOOL | | | | | | | | | |
|--|----------|---|------|---------------|------|-----------|----|----|--------------|
| Typical Learning Community | | | | | | | | | |
| General Classroom | 12 | @ | 850 | 10,200 | | 12 | TS | 28 | 336 |
| Science Lab | 2 | @ | 1100 | 2,200 | | | | | |
| Science Prep Area | 1 | @ | 200 | 200 | | | | | |
| Literacy/E.L.L. Lab | 1 | @ | 500 | 500 | | | | | |
| Small Group Rm. | 1 | @ | 300 | 300 | | | | | |
| Book Storage | 1 | @ | 150 | 150 | | | | | |
| General Storage | 1 | @ | 120 | 120 | | | | | |
| Teacher Work Area | 1 | @ | 500 | 500 | | | | | |
| Staff Toilet | 2 | @ | 50 | 100 | | | | | |
| Total per Community | | | | 14,270 | | 12 | TS | | 336 |
| Subtotal for all Communities | 3 | | | 42,810 | S.F. | 36 | TS | | 1,008 |

| GENERAL CLASSROOM AREAS – 1200 STUDENT MIDDLE SCHOOL | | | | | | | | | |
|---|----|---|------|--------|--|----|----|----|-----|
| Typical Learning Community | | | | | | | | | |
| General Classroom | 12 | @ | 850 | 10,200 | | 12 | TS | 28 | 336 |
| Science Lab | 2 | @ | 1100 | 2,200 | | 2 | TS | 28 | 56 |
| Science Prep Area | 1 | @ | 200 | 200 | | | | | |
| Literacy/E.L.L. Lab | 1 | @ | 500 | 500 | | | | | |

St. Vrain Valley School District

| | | | | | | | | |
|-------------------------------------|-----|-----|----------|---------------|------|-----------|----|--------------|
| Small Group Rm. | 1 @ | 300 | 300 | | | | | |
| Book Storage | 1 @ | 150 | 150 | | | | | |
| General Storage | 1 @ | 120 | 120 | | | | | |
| Teacher Work Area | 1 @ | 500 | 500 | | | | | |
| Staff Toilet | 2 @ | 50 | 100 | | | | | |
| Total per Community | | | | 14,270 | | 14 | TS | 392 |
| Subtotal for all Communities | | | 3 | 42,810 | S.F. | 42 | TS | 1,176 |

Adjacency Diagram:



MUSIC

Space Description:

Music facilities should provided a learning environment that reflects the exploratory nature of programs offered at middle school level. Facilities should be provided to accommodate instrumental and vocal programs. Spaces should be clustered to maximize effectiveness of storage areas. Due to acoustical nature of these spaces consideration should be given to its proper location within the facility. The music area should be in close proximity to the Stage and Cafetorium.

The Music area is organized around the following spaces:

- A. Instrumental Music Classroom
- B. Vocal Music Classroom
- C. Orchestra Classroom (located on the stage)
- D. Equipment Storage
- E. Practice Rooms
- F. Music Office/Library

Design Criteria:

A. Instrumental Music Classroom

General Requirements:

- Provide a minimum of 25 square feet for each instrumentalist based on 90 students.
- Instrumental Music Classroom should be in close proximity to the performance platform at the commons and adjacent to the vocal music classroom and orchestra classroom.
- Instrumental Music Classroom should be adjacent to the equipment storage and practice rooms.
- Design and construction features should maximize acoustical isolation of music activities from surrounding areas.
- Ceiling heights shall be a min. of 16'.
- Room should be designed with a flat VCT floor for flexibility.
- Rectangular shape classroom is preferred.
- Provide natural light in the classroom.

Casework Criteria:

- In room music binder storage. Plan for 360 to 400 - 1" binders.
- Provide a 72" lockable tall cabinet for sound amplification and recording equipment located at the front instructional wall.
- Provide storage for a minimum of 100 instruments within the instrumental music room. Provide storage configuration that maximizes the number and type of instruments to be stored. Storage units shall have individually locked solid doors and protective edge molding to avoid damage from instrumental cases.

Furnishings Criteria:

- Provide conductor stand at front of room, by Owner
- Chairs (without arms) and music stands by Owner

Equipment Criteria:

- Provide 4x4 tack board.
- Provide 4x8 marker board with staffed markings.

- Provide “Smart” board system as in all general classrooms.
- A sound amplification and recording system, independent of the public address system, in a separate locked cabinet. Good speakers are essential.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5” x 11” printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Provide adequate separation from adjacent spaces.
- Acoustical treatment should be provided which creates an appropriate reverberant environment for both vocal and instrumental music.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.
- Provide drinking fountain within classroom.
- Provide sink within the classroom.

B. Vocal Music Classroom

General Requirements:

- Room should be designed for vocal use.
- Provide a minimum of 25 square feet for each occupant based on 90 students.
- Vocal Music Room should be in close proximity to the performance platform at the Commons and adjacent to the Instrumental Music Classroom, Orchestra Classroom, and Equipment Storage.
- Design and construction features should maximize acoustical isolation of music activities from surrounding areas.
- Ceiling heights of 16’ are preferred.
- Room should be designed with a flat VCT floor for flexibility.
- Mobile risers are preferred and must have 4 ft. width minimum for students standing and a chair.
- Provide adequate storage space for school purchased portable risers.

Casework Criteria:

- In room music binder storage. Plan for 360 to 400 - 1” binders.
- Provide a 72” lockable tall cabinet for sound amplification and recording equipment located at the front instructional wall.

Furnishings Criteria:

- Provide conductor stand at front of room, by Owner
- Portable risers, by Owner
- Chairs (without arm) and music stands, by Owner

Equipment Criteria:

- Provide 4x4 tack board.
- Provide 4x8 marker board with staffed markings.

- Provide “Smart” board system as in all general classrooms.
- A sound amplification and recording system, independent of the public address system, in a separate locked cabinet. Good speakers are essential.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5” x 11” printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Provide adequate separation from adjacent spaces.
- Acoustical treatment should be provided which creates an appropriate reverberant environment for both vocal and instrumental music.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.
- Provide drinking fountain within classroom.
- Provide sink within the classroom.

C. Orchestra Classroom (Located on Stage, Re: Food Service Section for assigned square feet)

General Requirements:

- Room should be designed for instrumental use.
- Provide a minimum of 25 square feet for each occupant based on 90 students.
- Orchestra Classroom should be in close proximity to the performance platform at the Commons and adjacent to the Instrumental Music Classroom and Vocal Music Classroom.
- Orchestra Classroom should be adjacent to the equipment storage and practice rooms.
- Design and construction features should maximize acoustical isolation of music activities from surrounding areas.
- Ceiling heights of 16’ are preferred.
- Room should be designed with a flat VCT floor for flexibility.

Casework Criteria:

- In room music binder storage. Plan for 360 to 400 - 1” binders.
- Provide a 72” lockable tall cabinet for sound amplification and recording equipment located at the front instructional wall.
- Provide storage for a minimum of 100 instruments within the instrumental music room. Provide storage configuration that maximizes the number and type of instruments to be stored. Storage units shall have individually locked solid doors and protective edge molding to avoid damage from instrumental cases.

Furnishings Criteria:

- Provide conductor stand at front of room, by Owner
- Chairs (without arm) and music stands, by Owner

Equipment Criteria:

- Provide 4x4 tack board.
- Provide 4x8 marker board with staffed markings.
- Provide “Smart” board system as in all general classrooms.

- A sound amplification and recording system, independent of the public address system, in a separate locked cabinet. Good speakers are essential.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5” x 11” printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Provide adequate separation from adjacent spaces.
- Acoustical treatment should be provided which creates an appropriate reverberant environment for both vocal and instrumental music.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.
- Provide drinking fountain within classroom.
- Provide sink within the classroom.

D. Equipment Storage

General Requirements:

- Locate equipment storage between all music classrooms.
- Provide access into storage room from the Instrumental, Vocal and Orchestra classrooms.

Casework Criteria:

- Provide casework to supplement the required storage as referenced in the Instrumental and Music classrooms.

Equipment Criteria:

- Provide wall mounted hangers for two (2) tubas.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Acoustical Criteria:

- Provide sound isolation wall construction consistent with adjacent wall construction.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.

- Provide wall mount SS tub sink for instrument cleaning.

E. Practice Rooms

General Requirements:

- Provide three (3) practice rooms per music classroom. Provide direct access from classroom into practice room.
- Provide a minimum of 25 square feet for each occupant based on 3 students.
- Provide door with view light for supervision.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Furnishings Criteria:

- Chair and music stand, by Owner.

Equipment Criteria:

- A school purchased computer synthesizer and electronic keyboard will be installed in one of the practice rooms.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Acoustical Criteria:

- Provide sound isolation wall construction consistent with adjacent wall construction.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.

E. Music Office/Library

General Requirements:

- Locate Music Office/Library in a manner to maximize supervision of classrooms and encourage teacher student interaction.
- Provide doors with view light for supervision.
- Locate sheet music storage in the Music Office.
- Provide space for an upright piano
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

Casework Criteria:

- Provide three (3) 5'-0" wide workstations, counter depth at workstations should be 30".
- Provide 18" wide drawer unit for personal use.
- Provide 36" wide by 84" tall storage cabinet for coat storage.

Furnishings Criteria:

- Provide "Spacesaver" shelving for 1500 pieces of music + 30% expansion.
- Provide chairs at workstations, by Owner
- Provide keyboard trays for workstations, by Owner
- Provide upright piano, by Owner.

Equipment Criteria:

- Provide 4x4 marker board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Acoustical Criteria:

- Provide sound isolation wall construction consistent with adjacent wall construction.
- Provide adequate door hardware to assure acoustical separation from adjacent spaces.

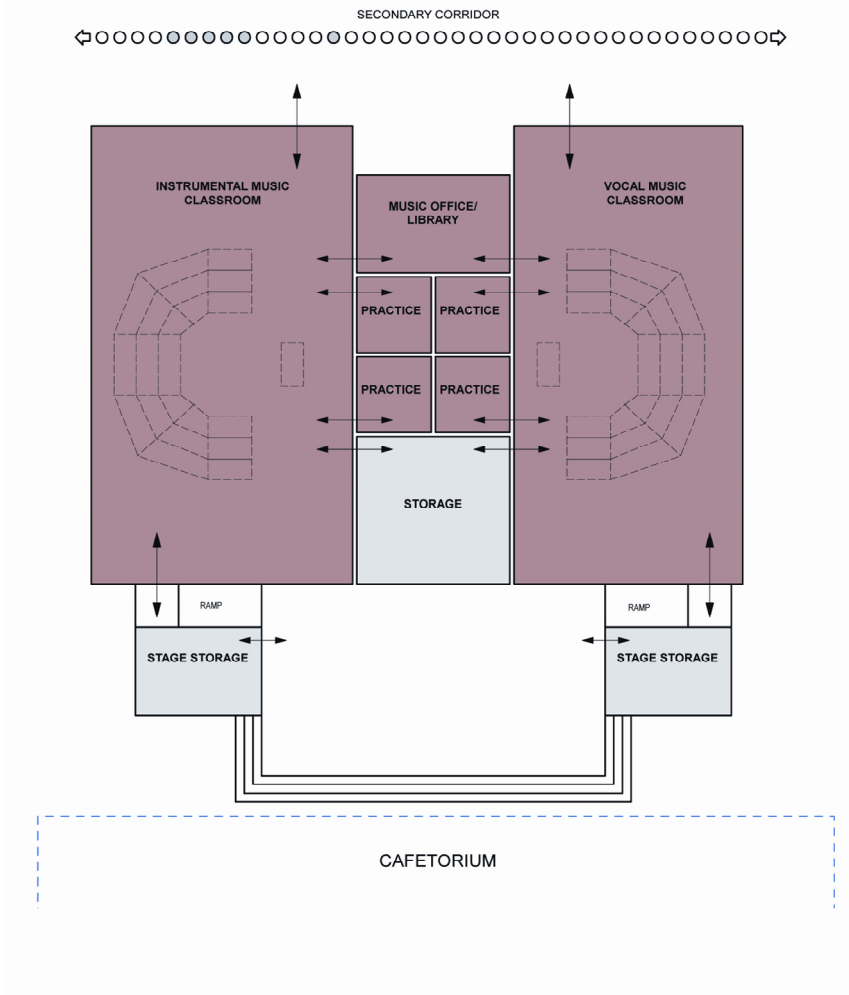
Mechanical/Plumbing Criteria:

- Design ductwork to mitigate sound transfer from adjacent spaces.

Summary of Program Space:

| MUSIC | | | | | | | | | |
|---------------------------------|---|---|------|--------------|-------------|----------|-----------|----|----------|
| Instrumental Music Classroom | 1 | @ | 1600 | 1600 | | 0 | TS | 28 | 0 |
| Vocal Music Classroom | 1 | @ | 1400 | 1400 | | 0 | TS | 28 | 0 |
| Orchestra Classroom (re: Stage) | | | | | | | | | |
| Equipment Storage | 1 | @ | 300 | 300 | | | | | |
| Practice | 4 | @ | 75 | 300 | | | | | |
| Music Office/Library | 1 | @ | 200 | 200 | | | | | |
| Subtotal | | | | 3,800 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



ART

Space Description:

Art facilities should provide a learning environment that reflects the exploratory nature of programs offered at middle school level. Facilities should be provided to accommodate two-dimensional and three-dimensional projects. Spaces should be clustered to maximize effectiveness of storage areas and sharing of resources. Due to potential of after-hour use, consideration should be given to their proper location within the facility. The art area should be close to exterior access.

The Art area is organized around the following spaces:

- A. Art Classroom
- B. Art Storage
- C. Teacher Work Area
- D. Kiln/Clay Room

Design Criteria:

A. Art Classroom

General Requirements:

- Art classroom should be adjacent to storage and teacher work areas to maximize shared resources/materials with direct access to the exterior.
- Room should be oriented to optimize daylighting (north light preferred). Proper daylighting control should be provided for all windows or light monitors.
- Ceiling height to be a minimum of 10 ft. to 15 ft.
- Provide non-slip sealed concrete flooring.
- Provide floor drain (with clay traps) at sink locations to facilitate easy cleaning.
- Provide a 3' deep by 6' wide, closet for material storage with shelving to accommodate art materials and paper stock.

Casework Criteria:

- Provide approximately 12 l.f. of 36" deep base cabinets and 12" deep upper cabinets.
- Provide 4 computer workstations for each classroom to facilitate the use of computer generated graphics. Top of work surface shall be 28" AFF.
- Provide for TV monitor, located at the front instructional wall.
- Provide wet clay storage unit in designated classroom.

Furnishings Criteria:

- Provide space for a drying rack with mesh shelves for flatwork, by Owner.
- Stools for workstations, by Owner
- Eight (8) 4' x 6' butcher block work tables and one teacher demonstration table, by Owner
- Wedging table, by Owner
- Provide flammable storage cabinet, by Owner.
- Paper cutter, light box, and countertop spray booth, by Owner.
- Provide mobile clay storage cart.

Equipment Criteria:

- Provide 4x16 marker board and 4x4 tack board.
- Provide pipe grid at the ceiling.

- Provide “Smart board” and document camera.
- Provide ceiling mounted projector.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5” x 11” printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- Ventilation systems shall be design to accommodate the use of art materials and associated fumes.
- Provide two (2) double compartment stainless steel sink for each classroom. Sink dimensions shall be 84” long x 24” wide with 12 “ backsplash, basin to be 36” long by 21 inches wide and 12” deep, including 24” drain boards at each end of basin. Provide spray function at sink.
- Provide clay trap at all sinks.
- Provide clay trap at floor drain.

Electrical Criteria:

- Removable net electrical drop-cords are required over student worktables.
- Provide outlets spaced at 8’0” o.c on perimeter walls.
- Provide track lighting on pipe grid.

B. Art Storage

General Requirements:

- Storage shall be provided for art materials, for instructional and student use.
- Storage shall be provided for student projects and personal art folios.

Casework Criteria:

- Provide four (4) sections of flat storage cabinets, 38” wide by 48” deep by 36” high with six adjustable shelves for flat art.
- Provide three (3) sections of vertical storage with non-adjustable shelves spaced at 3” apart. Each unit shall be 48” wide by 36” deep by 84” high, with two levels within each unit.
- Do not install doors or drawers for any art storage.

C. Teacher Work Area

General Requirements:

- Locate teacher work area in a manner to maximize supervision of classrooms and encourage teacher student interaction.
- Provide doors with view light for supervision.

Casework Criteria:

- Provide two (2) 5’-0” wide workstations, counter depth at workstations should be 30”.
- Provide 18” wide drawer unit for personal use.
- Provide 36” wide by 84” tall storage cabinet for coat storage.

Furnishings Criteria:

- Provide space for five (5) file cabinets, by Owner.
- Provide chairs at workstations, by Owner.
- Provide keyboard trays for workstations, by Owner.

Equipment Criteria:

- Provide 4x4 marker board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

D. Kiln Room

General Requirements:

- Provide one (1) electric kiln.
- Provide access into kiln room from 3D Art Classroom.
- Provide space for ten (10) pottery wheels within kiln room.
- Provide floor drain (with clay traps) at sink locations and at pottery wheel locations to facilitate easy cleaning.

Casework Criteria: none

Furnishings Criteria:

- Provide space for four (4) 24" deep by 36" wide by 84" high metal shelving units, to be provided by Owner.

Equipment Criteria:

- Provide one (1) electric kiln, by Owner.
- Provide ten (10) pottery wheels, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Mechanical/Plumbing Criteria:

- Provide separate systems for kiln vent(s).
- Provide floor drain with plaster trap.

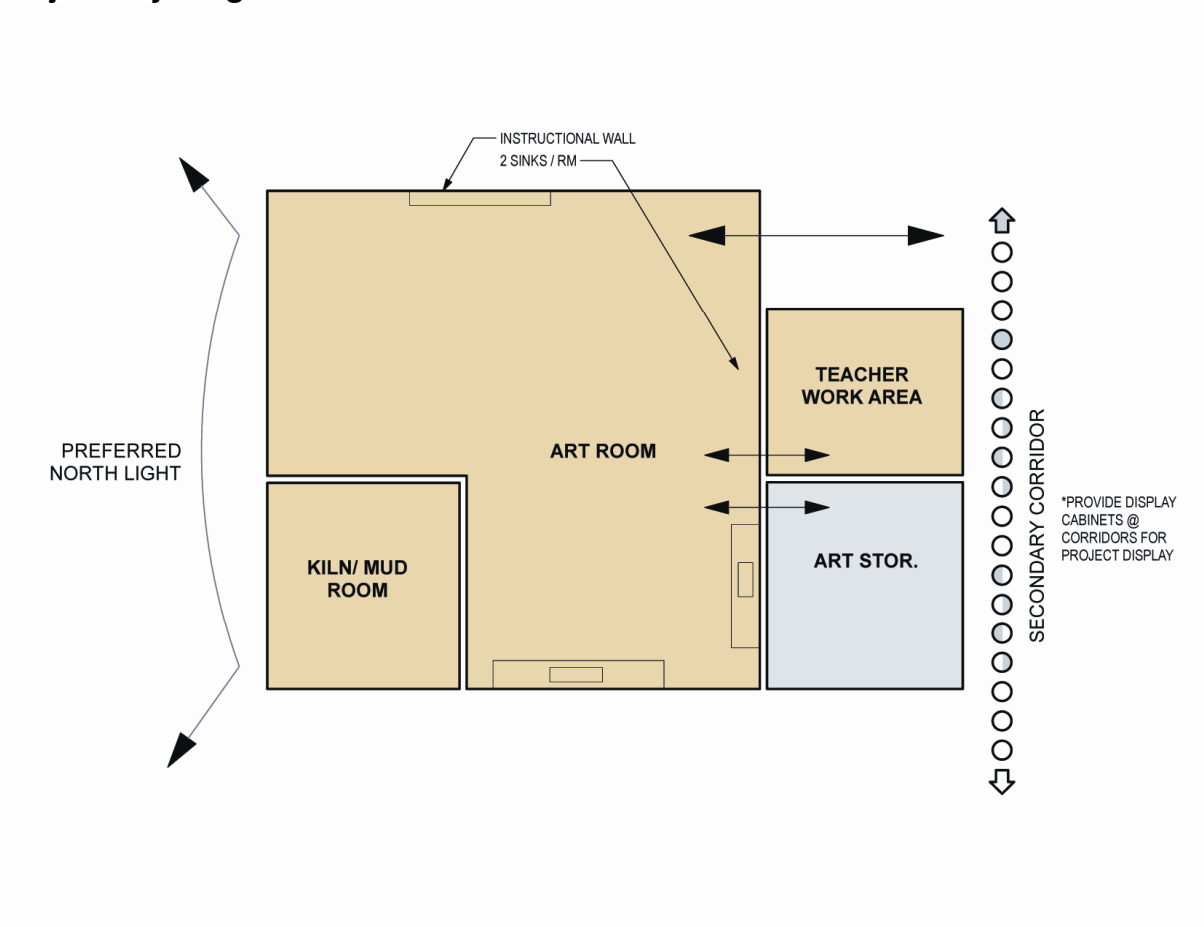
Electrical Criteria:

- Provide dedicated 220V circuit for kilns.
- Provide outlets to support ten (10) pottery wheels

Summary of Program Space:

| ART | | | | | | | | | |
|-------------------|---|---|------|--------------|-------------|----------|-----------|----|----------|
| Art Classroom | 1 | @ | 1000 | 1000 | | 0 | TS | 28 | 0 |
| Art Storage | 1 | @ | 200 | 200 | | | | | |
| Teacher Work Area | 1 | @ | 160 | 160 | | | | | |
| Kiln / Mud Room | 1 | @ | 400 | 400 | | | | | |
| Subtotal | | | | 1,760 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



WORLD LANGUAGES

Space Description:

The World Languages multi-purpose room should be designed to support the curriculum offerings within the World Languages program. At the middle school level students are exposed to languages and the cultural aspects of those languages. The World Language room should enhance and enable students to listen, read, write and speak new languages as well as be involved in activities to develop an understanding of the cultural components to each language. The World Language multi-purpose room should be in close proximity with the Personal Resource Development Lab to for food preparation exercises.

The World Languages area is organized around the following spaces:

- A. Multi-purpose Classroom/Lab
- B. Storage
- C. Teacher Work Area

Design Criteria:

A. Multi-purpose Classroom/Lab

- The features of a general-purpose classroom should be provided. It is particularly important to provide sound isolation between adjacent spaces because of frequent use of audio-visual equipment, conversational role playing activities and singing.
- Although natural light is preferred, these rooms could be internal to the building perimeter. Provide window coverings to reduce light level to 5 foot-candles. For AV presentations.
- Wherever possible, provide sidelights at classroom doors.

Casework Criteria:

- Provide a minimum of 12 l.f. of base cabinets, 30" deep worksurfaces at a height of 36" AFF (90 cu.ft.). In addition to this requirement, provide three (3) computer workstations within the general classrooms. Counter depth shall be 30" deep, 28" AFF.

Furnishings Criteria:

- Student desk/table and chairs, by Owner
- Waste basket, by Owner

Equipment Criteria:

- TV monitor, by Owner
- Projection screens, if required, by Owner
- Provide 4'x12' "Smart Board" and 4'x4' tack board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials shall be submitted to the Owner for review prior to installation.

Electrical Criteria:

- Provide outlets spaced on all perimeter walls and for associated computer equipment. Provide one 20 amp circuit per 4 CPU workstations.

- Locate clock and speaker on the wall perpendicular to the front instructional wall.

Technology Criteria: In addition to data terminals at the CPU stations, provide a data terminal at front of classroom and at each CPU workstation.

B. Storage

General Requirements:

- Storage shall be provided for materials used for the World Languages program. Provide secured, lockable room.
- Provide a minimum four (4) 48" wide by 24 "deep by 84" tall metal shelf units.

Casework Criteria: None.

Furnishings Criteria:

- Four (4) 48" wide by 24 "deep by 84" tall metal shelf units, by Owner

Equipment Criteria: None.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Mechanical/Plumbing Criteria: None.

Electrical Criteria: None.

C. Teacher Work Area

General Requirements:

- Locate teacher work area in a manner to maximize supervision of classroom and encourage teacher student interaction.
- Provide doors with view light for supervision.

Casework Criteria:

- Provide two (2) 5'-0" wide workstations, counter depth at workstations should be 30". Provide 18" wide drawer unit for personal use.
- Provide 36" wide by 84" tall storage cabinet for coat storage.

Furnishings Criteria:

- Provide chairs at workstations, by Owner
- Provide keyboard trays for workstations, by Owner

Equipment Criteria:

- Provide 4x4 marker board.

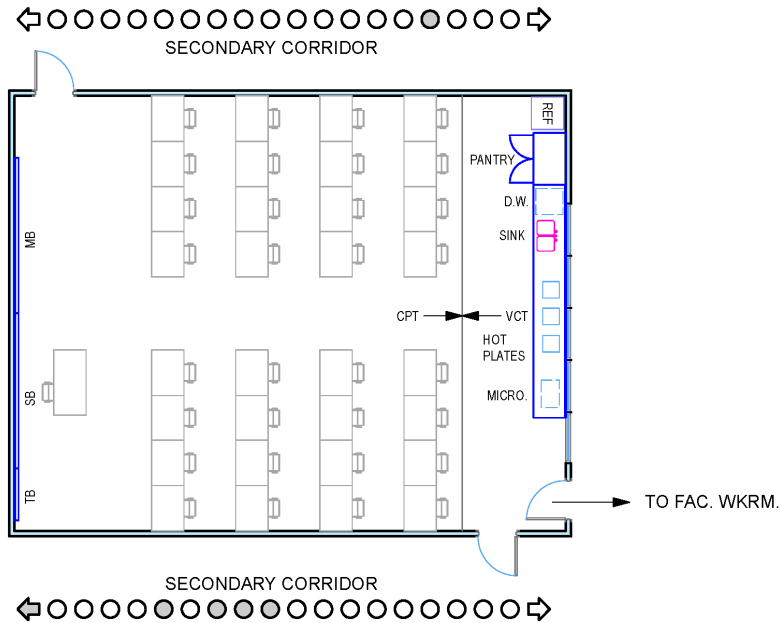
Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

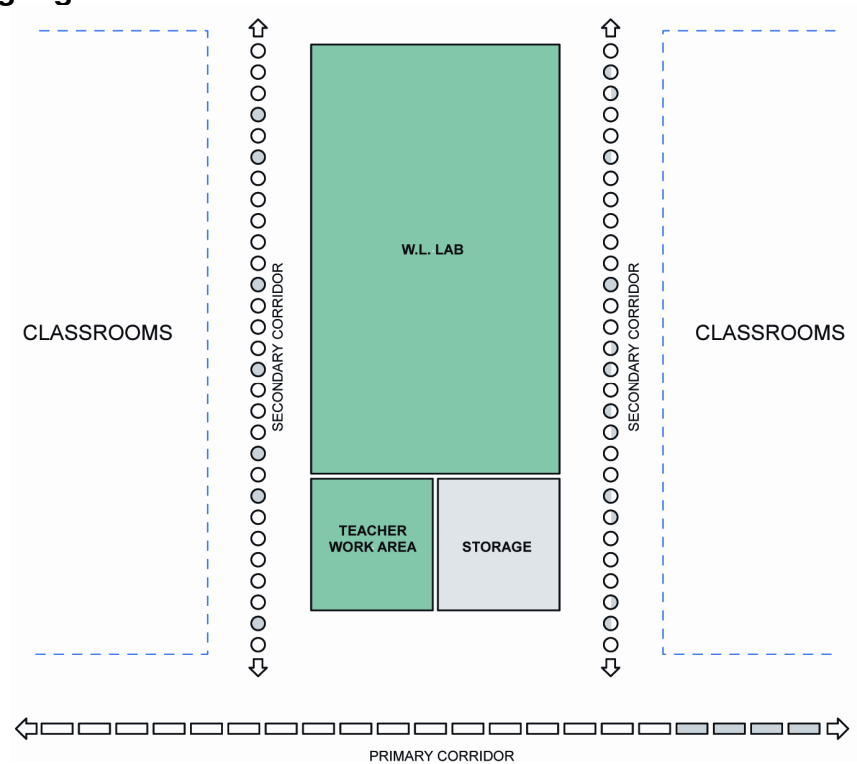
Summary of Program Space:

| WORLD LANGUAGES | | | | | | | | | |
|-------------------------|---|---|------|--------------|-------------|----------|-----------|----|----------|
| Multi-purpose Classroom | 1 | @ | 1000 | 1000 | | 0 | TS | 28 | 0 |
| Storage | 1 | @ | 150 | 150 | | | | | |
| Teacher Work Area | 1 | @ | 150 | 150 | | | | | |
| Subtotal | | | | 1,300 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



World Languages Lab:



PERSONAL RESOURCE DEVELOPMENT

Space Description: The Personal Resource Development multi-purpose room should be designed to support the curriculum offerings within the PRD program. Additionally, this space is used as a World Language lab when food preparation is required. Provide direct access from the classroom to the building exterior for deliveries.

The Personal Resource Development area is organized around the following spaces:

- A. Multi-purpose Classroom
- B. Pantry
- C. Teacher Work Area

Design Criteria:

A. Multi-purpose Classroom

General Requirements:

- Provide seven (7) kitchen unit workstations, one of which will be used as the demonstration island. Each workstation shall have a double compartment sink with disposal, range with ventilation hood unit, and microwave. Each perimeter workstation shall be approximately 11' in length. Ensure one workstation meets requirements for ADA access and use requirements.
- Kitchen workstations shall be located along the perimeter of the room allowing the center of the room to be used as a flexible instructional space.
- Provide space for three (3) CPU workstations between each pair of kitchenettes. Work surface at CPU shall be 40" AFF.
- Provide two (2) 30" wide refrigerators with ice makers.
- Provide a dishwasher unit at the demonstration island.
- Locate demonstration mirror unit above the demonstration island. Provide a tilting and sliding type unit.

Casework Criteria:

- Provide 24" deep base cabinets with 12" deep upper cabinets.
- Provide an 18" drawer unit at each workstation.
- Provide demonstration island with drawer and cabinet units.
- Provide a 5' tall AV cabinet for TV monitor, located at the front instructional wall.

Furnishings Criteria:

- Work tables and chairs, by owner.
- Waste baskets, by owner.
- Serving dishes, cookware, etc., by owner.
- Small appliances (mixers, can openers, etc.), as required, by owner.

Equipment Criteria:

- Provide 4x16 marker board and 4x4 tack board.
- Six (6) range and oven combination units, by Owner
- Two (2) refrigerators, by Owner
- Commercial grade under counter dishwasher, by Owner
- Hood ventilation units, by GC.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the

design of the facility.

- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- Provide dedicated exhaust systems for hood ventilation units at workstations and demonstration island.

Electrical Criteria:

- Provide convenience outlets for each workstation in addition to outlets for range and oven unit and microwave.
- Design circuitry to accommodate multiple small appliances and normal appliance loads to occur simultaneously.

B. Pantry

General Requirements:

- Storage shall be provided for dry goods and materials used for the Consumer Family Studies program. Provide secured, lockable room.
- Provide a minimum four (4) 48" wide by 24 " deep by 84" tall metal shelf units.
- Provide space and connections for a 30" washer and electric dryer units.
- Provide space for a 36" wide freezer.

Casework Criteria:

- Provide base and upper cabinets units to accommodate a minimum of 6' counter surface.

Furnishings Criteria:

- Metal shelving, by Owner

Equipment Criteria:

- Freezer, by Owner
- Washer and Dryer, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

Mechanical/Plumbing Criteria:

- Provide ventilation for dryer unit. Provide floor drain in pantry room.

C. Teacher Work Area

General Requirements:

- Locate teacher work area in a manner to maximize supervision of classrooms and encourage teacher student interaction.
- Provide doors with view lite for supervision.

Casework Criteria:

- Provide two (2) 5'-0" wide workstations, counter depth at workstations should be 30". Provide 18" wide drawer unit for personal use.
- Provide 36" wide by 84" tall storage cabinet for coat storage.

St. Vrain Valley School District

Furnishings Criteria:

- Provide chairs at workstations, by Owner
- Provide keyboard trays for workstations, by Owner

Equipment Criteria:

- Provide 4x4 markerboard.

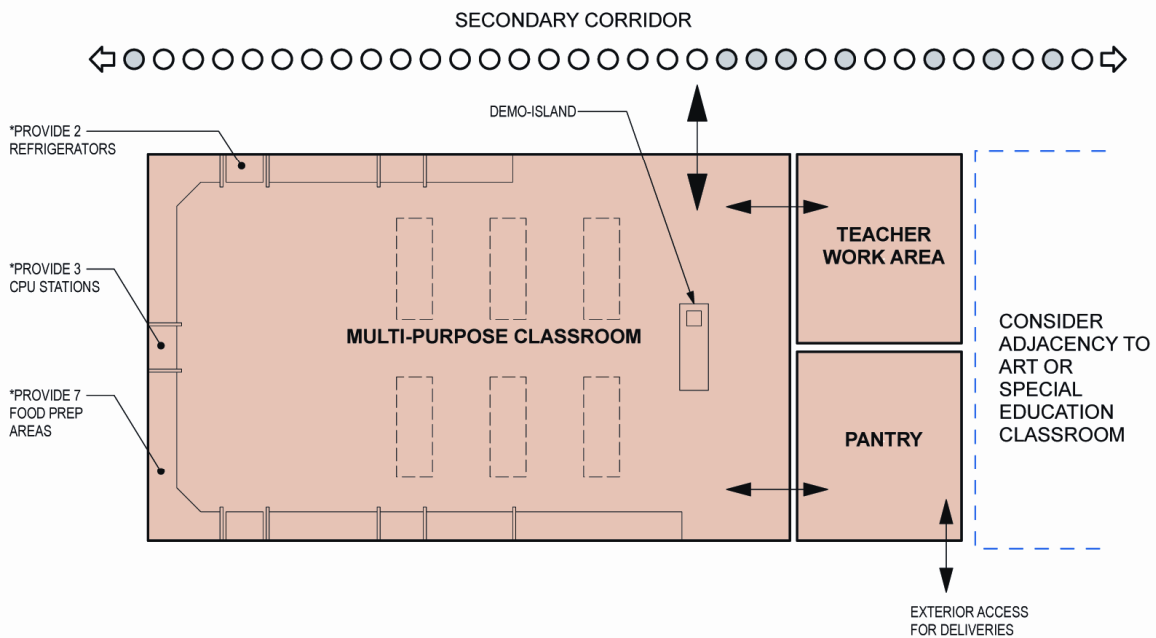
Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Summary of Program Space:

| PERSONAL RESOURCE DEVELOPMENT | | | | | | | | | |
|-------------------------------|---|---|------|--------------|-------------|----------|-----------|----|----------|
| Multi-purpose Classroom | 1 | @ | 1200 | 1200 | | 0 | TS | 28 | 0 |
| Teacher Work Area | 1 | @ | 150 | 150 | | | | | |
| Pantry | 1 | @ | 150 | 150 | | | | | |
| Subtotal | | | | 1,500 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



APPLIED TECHNOLOGY CENTER

Space Description:

The Applied Technology Center is a modular based learning environment, which reinforces the exploratory nature of programs offered at middle school level. This type of lab has generally been designed in three (3) options. Whichever option is implemented, consultants are responsible for coordination of power, voice, data and lighting locations to support the configuration.

Option 1 – All work modules within the room are provided by the construction contract and permanently built. The school purchases equipment from its budget and installs it on the provided casework. This method limits the flexible use of the lab.

Option 2 – The construction contract provides two-person workstations, which are installed around the perimeter of the lab. The school purchases equipment and freestanding portable work modules that can be easily re-configured in the center of the lab.

Option 3 – The school purchases a complete modular technology package consisting of all furniture, equipment and teaching modules. The construction contract provides only a base cabinet with sink and upper storage cabinets, similar to general classrooms.

The Applied Technology Center is organized around the following spaces:

- A. Applied Technology Lab
- B. Fabrication Room
- C. Material Storage
- D. Teacher Work Area

Design Criteria:

A, Applied Technology Lab

General Requirements:

- Provide workstations or space for work modules for 32 students in groups of two. Provide 30" deep worksurfaces at a height of 28" AFF.
- Provide space for teacher station in a location that maximizes supervision of adjacent rooms.
- Provide adequate clearance between each workstation, min. aisle clearance of 48".
- Provide sink base units in two (2) locations to accommodate a single compartment sink.
- Provide location and power for eye goggle cabinet.

Casework Criteria:

- Pending the selected approach to implement the lab, the construction contract may require perimeter worksurface and free standing worktables. Worksurface shall be 28" AFF; provide necessary undercounter bracing to support any spans of 3'-6" or greater.
- Provide a 5' tall AV cabinet for TV monitor, located at the front instructional wall.

Furnishings Criteria:

- Provide 4x16 markerboard and a 4x4 tackboard.
- Pending the selected approach to implement the lab, the Owner may be required to provide furniture systems to support modular lab components and CPU workstations.

Equipment Criteria:

- Provide 4x16 markerboard and a 4x4 tackboard.
- Pending the selected approach to implement the lab, the Owner may be required to provide furniture systems to support modular lab components and CPU workstations.

Signage Criteria: Provide ADA acceptable room identification and exit signs as required by the design of the facility. Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- Provide an eyewash station.
- Provide a deep sink with gooseneck facet.

Electrical Criteria:

- Provide outlets spaced at 8'0" o.c or continuous plug mold along perimeter walls.
- Provide 40% power reserve capacity for future equipment.
- Provide central located master switch for power supply to fabrication room near teacher work area.

B. Fabrication Room

General Requirements:

- Locate room adjacent to the technology lab with windows for visual supervision. All areas must be visible to the instructor.
- Provide direct adjacency to material storage.
- Provide dust collection system for small tool equipment. Coordinate equipment list with Owner prior to specification of dust collection system.
- Provide master switch for power serving all equipment.
- Provide a bench top paint hood – min. 5' length.
- Provide 20 sf of exterior concrete pad for outside activities.
- Provide 15 l.f. of base cabinets with 30" deep workcounter.
- Provide location and power for eye goggle cabinet.

Casework Criteria:

- Provide a sink base and associated base cabinets to accommodate a single compartment sink and 3' of additional workcounter, 36" AFF.

Furnishings Criteria:

- Student work benches, by Owner

Equipment Criteria:

- Provide 4x8 markerboard and 4x4 tackboard.
- Miscellaneous small tool equipment selected and provided by Owner.

Signage Criteria: Provide ADA acceptable room identification exit signs as required by the design of the facility. Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom. Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria: Provide acoustical treatment to minimize sound transfer into adjacent spaces.

Mechanical/Plumbing Criteria: Design ductwork to mitigate sound transfer from adjacent spaces.

Mechanical/Plumbing Criteria:

- Provide dedicated dust collection system and paint hood ventilation system.

Electrical Criteria:

- Provide 40% reserve capacity for future equipment.
- Provide 120v single phase and 208v three phase as required based upon equipment selection. Wall outlets for equipment is preferred, install overhead drop cord for table top equipment or stand alone equipment not located along the perimeter of the room.

C. Material Storage

General Requirements:

- Locate material storage with direct access to the fabrication room and the applied technology lab.
- Provide open rack storage for wood, metals, plastics and supplies
- Provide direct exterior access into material storage.

Equipment Criteria:

- Metal storage racks and shelving
- Vented storage cabinet, by Owner

Signage Criteria: Provide ADA acceptable room identification sign.

Mechanical/Plumbing Criteria: Provide ventilation for vented storage cabinet.

D. Teacher Work Area

General Requirements:

- Locate teacher work area in a manner to maximize supervision of activities occurring within and adjacent to the Applied Technology Center.
- Provide windows with blinds for visual supervision.
- Provide doors with view lite for supervision.

Casework Criteria:

- Provide 5'-0" wide workstations, counter depth at workstations shall be 30".
- Provide 18" wide drawer unit for personal use.
- Provide 36" wide by 84" tall storage cabinet for coat storage.

Furnishings Criteria:

- Provide chairs at workstations, by Owner.
- Provide keyboard trays for workstations, by Owner.

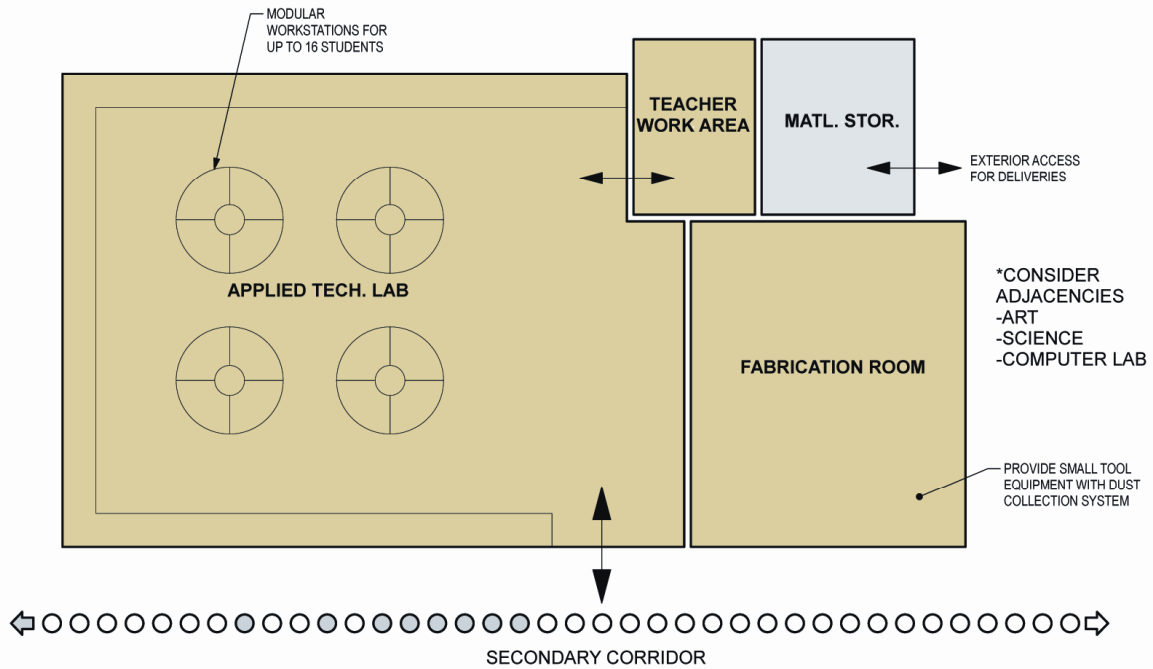
Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Summary of Program Space:

| APPLIED TECHNOLOGY | | | | | | | | | |
|---------------------------|---|---|------|--------------|-------------|----------|-----------|----|----------|
| Applied Technology Lab | 1 | @ | 1600 | 1600 | | 0 | TS | 28 | 0 |
| Fabrication Room | 1 | @ | 500 | 500 | | | | | |
| Material Storage | 1 | @ | 150 | 150 | | | | | |
| Teacher Work Area | 1 | @ | 120 | 120 | | | | | |
| Subtotal | | | | 2,370 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



PHYSICAL EDUCATION

Space Description:

The physical education program will provide a variety of activities that will enhance both individual and group participation in the development of physical skills, positive social attitude and individual responsibilities. The program will stress both indoor and outdoor sports and recreational activities. Due to the potential after-hour use of the Gymnasium, consideration should be given to the ability to secure portions of the building. A secondary entrance should be provided as an alternate entrance for the gymnasium. The gymnasium should be adjacent to the Commons space to serve as a pre-function space for events. The Physical Education area is organized around the following spaces:

- A. Gymnasium (seating for 700)
- B. Auxiliary Gymnasium
- C. Weight/Fitness Classroom
- D. P.E. Teacher Office/Locker
- E. Coaches Office/Locker
- F. Lockers/Toilets
- G. Athletic Storage
- H. PE Storage
- I. Exterior Storage Building.
- J. Court, Field and Event Areas

Design Criteria:

A. Gymnasium

General Requirements:

- Plan for 45 students per class.
- Provide a main court area of 50' x 74', with 10' run out at end lines and 6' at sidelines. Provide 25' min. ceiling height or clearance to structure.
- Provide two (2) practice courts of 40' x 60'.
- Provide main volleyball court and two (2) practice courts with sleeves in floor for standards.
- Provide motorized bleachers against one wall to seat 700 people. Equip bleachers with attached score keeper/timer bench.
- Provide double egress door sets into Auxiliary Gym to facilitate movement from one activity area to the other.
- Provide two (2) wireless scoreboards to be visible to both spectators and the scorekeeper. Provide protection for scoreboards.
- Provide natural light on the north wall with automated shades for light control.

Equipment Criteria:

- Provide electrically operated vinyl divider curtain to divide the gym in half.
- Provide six (6) electrically operated basketball backstops with glass back boards.
- Provide wall and corner pads as required. Bottom of pad to be just above base.
- Provide three (3) sets of volleyball standards
- Provide 2 full size competition wrestling mats, by Owner.
- Provide ceiling mounted mat lift.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the

design of the facility.

- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Gymnasium acoustics should be addressed through the use of acoustical metal deck and acoustical perforated block walls. The use of acoustical panels is discouraged.

Mechanical/Plumbing Criteria:

- Provide recessed drinking fountain and spittoon within the gym.

Electrical Criteria:

- Metal switch and outlet cover plates and locking metal covers on all light switches and backstop raising switches are required.
- Provide guards for all smoke detectors, lights, etc.
- Provide wireless sound system with wireless microphones.
- Provide separate audio enhancement system for instruction.

B. Auxiliary Gym

General Requirements:

- Plan for 45 students per class
- Provide a main basketball court area of 50' x 74' with 10 ft. run outs at the ends and 6 ft. run outs on the sidelines. 25' min. ceiling height or clearance to structure.
- Provide 2 practice basketball courts.
- Provide one main volleyball court.
- Provide double egress door sets into Gymnasium to facilitate movement from one activity area to the other.
- Provide climbing wall. Confirm with district risk management about traverse wall vs. vertical wall.
- Provide natural light from north wall with automated shades for light control.

Equipment Criteria:

- Provide six (6) electrically operated basketball backstops with glass back boards.
- Provide wall and corner pads as required. Bottom of pad to be just above base.
- Provide one (1) set of volleyball standards

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Gymnasium acoustics should be addressed through the use of acoustical metal deck and acoustical perforated block walls. The use of acoustical panels is discouraged.

Electrical Criteria:

- Metal switch and outlet cover plates and locking metal covers on all light switches and backstop raising switches are required.
- Provide guards for all smoke detectors, lights, etc.
- Provide wireless sound system with wireless microphones.
- Provide separate audio enhancement system for instruction.

C. Weight/Fitness Classroom

General Requirements:

- Locate room adjacent to gym with access from the gym and adjacent corridor. Provide visibility into the gym area for supervision.
- Provide non-breakable mirror units, no less than 5'h x 18'w.
- Provide wall mounted wall bracket for TV monitor.
- Provide wood floor.
- Provide natural light.

Furnishings Criteria:

- Provide 8' wide marker board
- Provide 4' wide tack board
- Provide high density floor mats at equipment, by Owner
- Waste basket, by Owner

Equipment Criteria:

- Provide circuit training equipment, by Owner
- Fitness apparatus, by Owner

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Electrical Criteria:

- Provide outlets spaced on all perimeter walls and for associated fitness equipment
- Locate clock and speaker on the wall perpendicular to the front instructional wall.

D. P.E. Teacher Office/Locker

General Requirements:

- Provide an office area directly adjacent to the Gym and the gender specific locker room. Provide a door to access the directly into the Gym and the locker room.
- Provide a widow into the gymnasium and locker room for supervision.
- Provide a separate locker/toilet area directly adjoining the office containing:
 - Two 12" w x 72" h high lockers
 - Space for dressing and an accessible private shower, water closet and lavatory.

Casework Criteria:

- Provide 5' work surface with 18" wide file drawer. Provide two (2) workstations per office area. Work surface shall be 30" AFF.

Furnishings Criteria:

- Chairs, by Owner
- Waste basket, by Owner

Equipment Criteria:

- Provide 4x4 marker board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

E. Coaches Office/Locker

General Requirements:

- Provide an office area adjacent to the Gym.
- Provide a separate locker/toilet area directly adjoining the office containing:
 - Four 12"w x 72"h high lockers
 - Space for dressing and an accessible private shower, water closet and lavatory.

Casework Criteria:

- Provide 5' work surface with 18" wide file drawer. Provide four (4) workstations per office area. Work surface shall be 30" AFF.

Furnishings Criteria:

- Chairs, by Owner
- Waste basket, by Owner

Equipment Criteria:

- Provide 4x4 marker board.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

F. Lockers/Toilets

General Requirements:

- Provide locker rooms with direct adjacency to the Gymnasium and direct access to the exterior. Access into the lockers should be directly from the gym spaces.
- Flooring to be poured epoxy with grit surface.
- Provide a layout of locker banks, which maximizes the supervision of the locker room.
- Provide 672 lockers, 12"w x 12"d x 18"h, to accept Owner provided padlocks, for each locker room.
- Provide 75 athletic lockers 15"w x 15"d x 36"h, to accept Owner provided padlocks, for each locker room.
- Provide integral benches/locker bases.

- Provide hand/hair dryers, towel racks, mirror units and one drinking fountain per locker room.
- Provide shower room, centrally located to the locker room. Provide adequate visual separation from locker room to shower area.
- Provide twelve (12) separate shower stalls, six (6) with shower heads, equipped with preset tempered water and six (6) for privacy dressing.
- Provide accessible shower and toilet facilities.

Furnishings Criteria:

- Waste basket, by Owner
- Padlocks, by Owner

Equipment Criteria:

- Provide 4x8 marker board with 4x4 tack board.

Signage Criteria:

- Provide ADA acceptable room identification sign and exit signs as required by the design of the facility.

G. Athletic Storage

- Provide athletic equipment storage directly adjacent to the main Gymnasium, preferably opposite of the bleacher side of the Gym.
- Provide a pair of 3'w x 7' h doors to facilitate movement of large apparatus and sports equipment.
- Provide a pair of 3'w x 7' h doors leading directly outside from the storage room.
- Shelving provided by Owner.

H. PE Storage

- Provide PE equipment storage directly adjacent to the main Gymnasium, preferably opposite of the bleacher side of the Gym.
- Provide a pair of 3'w x 7' h doors to facilitate movement of large apparatus and sports equipment.
- Provide a pair of 3'w x 7' h doors leading directly outside from the storage room.
- Shelving provided by Owner.

I. Exterior Storage Building

- Provide a non-combustible storage building (20 ft. x 25 ft.) near the track, football field and activity field.
- Provide a minimum length of 18', with one pair of 4' w x 7'h doors at one end.
- Provide minimal lighting and electrical power, no heating is required.

J. Court, Field and Event Areas

- Provide a total of six (6) multi-use courts, striped for volleyball and half court basketball with the following equipment for each:
 - 48" cantilever goose neck type basketball goals with chain nets.
 - At three (3) of the courts provide 4' h chain link enclosure fence with two (2) 3' wide openings, to provide ball control. Fence may require 6'h depending upon specific layout of adjacent spaces.
 - Provide three (3) additional courts within the fence limits of the tennis courts.
- Provide two (2) softball fields. Backstops should be 18' by 20' wide and with

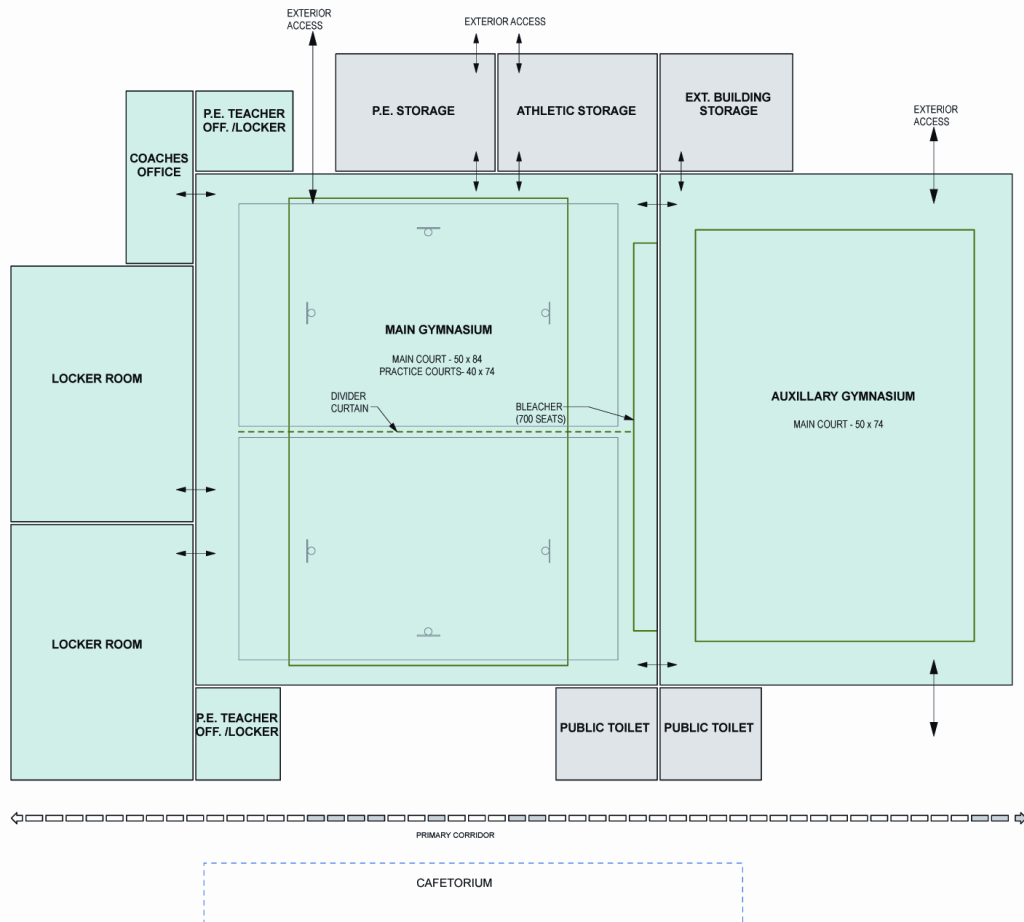
10' wide wings; located 20' back from home plate. Foul lines should be 200' long. Do not provide skinned infield, but do not allow practice field to overlap infield area. Assume 60' base path distance.

- Provide a six lane, 400 meter asphalt track, designed to comply with Colorado High School Activities Association Standards.
- Provide two (2) multi-purpose fields, sized 160' x 360', with a preferred north/south orientation along the long axis of the field. Provide one field within the track and one adjacent to the softball fields.

Summary of Program Space:

| PHYSICAL EDUCATION | | | | | | | | |
|-----------------------------|-----|------|---------------|-------------|----------|-----------|----|----------|
| Gymnasium (seating for 700) | 1 @ | 7600 | 7600 | | 0 | TS | 28 | 0 |
| Aux. Gym | 1 @ | 5800 | 5800 | | 0 | TS | 28 | 0 |
| Weight/Fitness CR | 1 @ | 1600 | 1600 | | 0 | TS | 28 | 0 |
| P.E. Teacher Office/Locker | 2 @ | 250 | 500 | | | | | |
| Coaches Office/Locker | 1 @ | 370 | 370 | | | | | |
| Lockers/Toilets | 2 @ | 1500 | 3000 | | | | | |
| Athletic Storage | 1 @ | 600 | 600 | | | | | |
| PE Storage | 1 @ | 600 | 600 | | | | | |
| Exterior Storage Building | 1 @ | 500 | 500 | | | | | |
| Subtotal | | | 20,570 | S.F. | 0 | TS | | 0 |

Adjacency Diagram:



SPECIAL EDUCATION

Space Description:

The educationally disabled program provides instruction for students with special needs and moderate to severe handicaps. Most students in the program spend part of their instructional day in the general classrooms and part in the educationally disabled student classroom receiving specialized instruction for specific disabilities. The class size is generally 8-12 students.

Special education classrooms are distributed within each of the academic suites according to the grade level instructional configuration. The integration of the students is consistent with the prevailing district educational philosophy of inclusionary programming.

The Special Education area is organized around the following spaces:

- A. Severe Needs Classroom
- B. Moderate Needs Classroom
- C. SE Changing Rm./Toilet
- D. Teacher Workroom/Storage
- E. Specialist/Therapy Room

Design Criteria:

A. Severe Needs Classroom

General Requirements: Classroom should be centrally located and in close proximity to direct exterior access. Instruction will be provided at tables or desk for individuals and small groups. Provide an accessible double compartment sink. Provide area of wheelchair storage.

Casework Criteria:

- Provide a minimum of 6' of base and wall cabinets. Counter depth should be a min. of 24".
- Provide a TV monitor, located at the front instructional wall.

Furnishings Criteria:

- Table and chairs, by Owner

Equipment Criteria:

- Provide a 4x16 marker board and a 4x4 tack board.
- Chair hoist, by Owner

Signage Criteria: Provide

- ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

B. Moderate Needs Classroom

General Requirements:

- Room may be located in the academic suites or adjacent to the Severe Needs Classroom. Provide wall area for shelving units for storage of equipment such as typewriters, computers, tapes and other AV equipment.
- Provide a 6 ft. x 6 ft. quiet room within the space. Provide acoustic

separation and visual monitoring capability, furnished with a chair/desk and able to withstand physical abuse without injuring a student.

Casework Criteria:

- (3) 36" wide tall storage unit, with 5 shelves.

Furnishings Criteria:

- Study carrels, by Owner
- Tables and chairs, by Owner
- Student Desks, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

C. SE Changing Room/Toilet

General Requirements:

- Room should be directly adjacent to the Severe Needs Classroom with a min. of 3' wide door.
- Provide space for a changing table and tall storage unit.
- Room should be designed to accommodate a wheelchair and two individuals. Room shall have an accessible sink, water closet and shower compartment. Provide a floor drain to facilitate cleaning.
- Provide call button as required by the District.

Casework Criteria:

- 36" wide tall storage unit, with 5 shelves.

Furnishings Criteria:

- Changing table, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Provide sound isolation wall construction consistent with adjacent wall construction.

D. Teacher Workroom / Storage

General Requirements:

- Locate teacher work area in a manner to maximize supervision of classroom and encourage teacher student interaction. Provide a min. of 4x4 observation window into classroom.
- Provide doors with view light for supervision.
- Locate doorway to allow easy access into the classroom space

Casework Criteria:

- Provide four (4) 6'-0" wide workstations, counter depth at workstations should be 30".
- Provide 18" wide drawer unit for personal use.
- Provide 36" wide by 84" tall storage cabinet for coat storage.

Furnishings Criteria:

- Task chairs, by Owner.
- Conference table that seats 6, by Owner

Equipment Criteria:

- Provide a 4x6 marker board and a 4x4 tack board.
- Provide computer at each workstation and one printer, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

E. Specialist/Therapy Room

General Requirements:

- Provide multi-purpose space for itinerant specialist use (i.e. psychologists, social workers, etc.). Offices should be in close proximity to the teacher workroom/storage and the counseling/reception area. Offices require doors with adjacent sidelights to maintain visual supervision. Rooms shall accommodate desk space and two side chairs. Supplemental storage within the room is to be provided.

Furnishings Criteria:

- Desk, chairs and conference table, by Owner.
- Lateral files, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

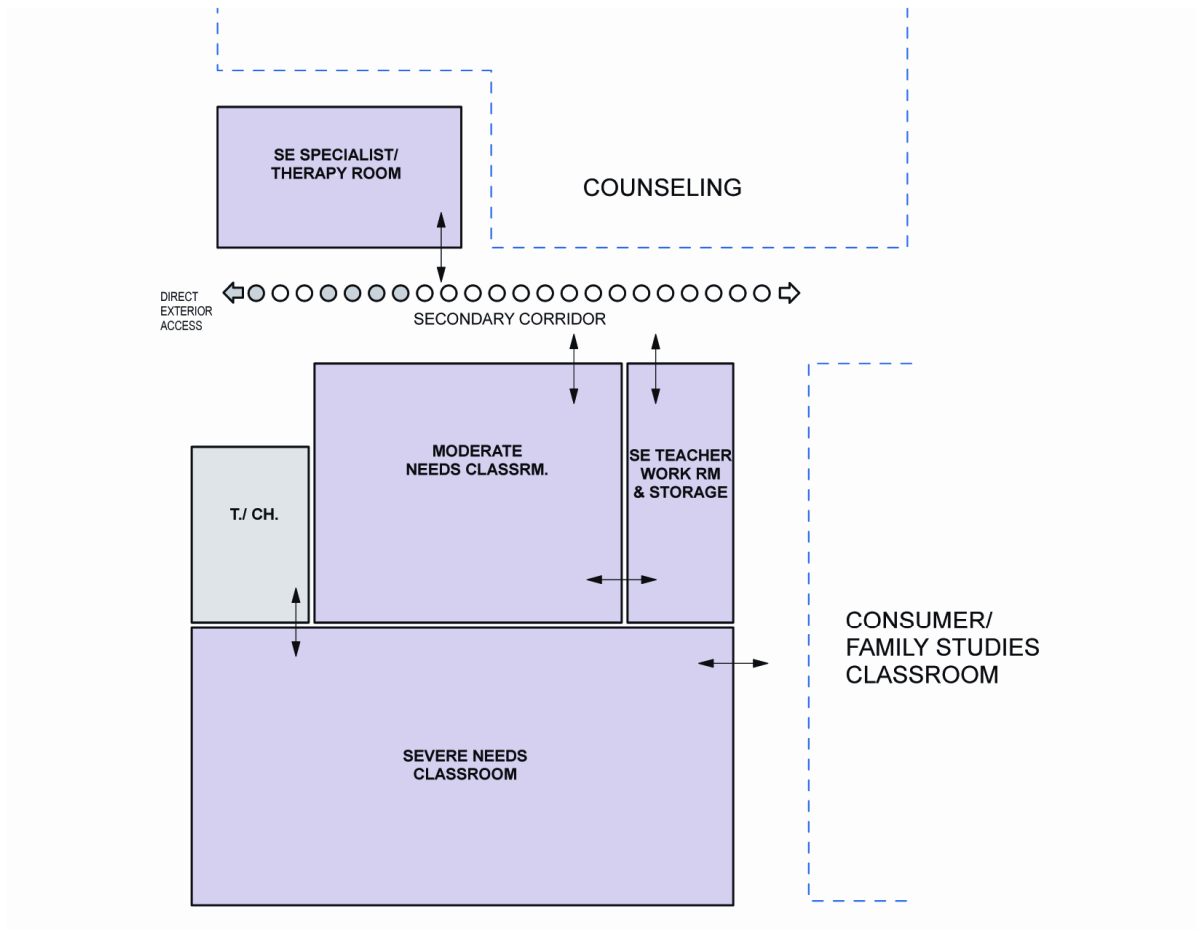
Acoustical Criteria:

- Due sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

General Summary of Program Space:

| SPECIAL EDUCATION | | | | | | | | | |
|-------------------------------|---|---|-------|--------------|-------------|----------|-----------|----|-----------|
| Severe Needs Classroom | 1 | @ | 1,100 | 1,100 | | 1 | TS | 10 | 10 |
| Moderate Needs Classroom | 1 | @ | 580 | 580 | | 1 | TS | 6 | 6 |
| SE Teacher Workroom & Storage | 1 | @ | 200 | 200 | | | | | |
| SE Changing Rm./Toilet | 1 | @ | 150 | 150 | | | | | |
| SE Specialist/Therapy Room | 1 | @ | 250 | 250 | | | | | |
| Subtotal | | | | 2,280 | S.F. | 2 | TS | | 16 |

Adjacency Diagram:



LIBRARY MEDIA CENTER

Space Description:

The Library Media Center (LMC) is an integral part of the instructional programs. As an integral part of the instructional team, the media specialist will provide planning assistance and material for the entire faculty. The LMC provides space for students to engage in the multiple learning resources (computer based, hard copy research, audiovisual, etc.). The LMC should be located central to the classroom areas and the teacher work areas to promote an active relationship between student and faculty. Additionally, consideration should be given to locating the LMC to allow after-hour use by both District personnel and community. The design should allow for maximum flexibility in order to serve the needs of students, staff, population growth and changing technologies.

Consultants are encouraged to consider the following design issues early in the design process and work closely with the District LMC Specialist.

- Open welcoming design of the space.
- Provide ample display area for student art work.
- Maintain 60” clearance between furniture and stacks and 36” between stacks.
- Limit number of entries, provide clear pathway to exits.
- Acoustical treatment of surfaces to dampen sound generation
- Provide natural light and view windows. Carefully weight the amount of large windows that will impact wall area for stacks.
- Double sided shelving units should not exceed three tier shelving units (approx. 43” AFF).
- Lighting should be laid out to maximize illumination of isle between shelving units.

The Library Media Center is organized around the following spaces:

- A. Instructional Seating/Stack Area
- B. Conference Room
- C. Periodical Storage
- D. AV Storage
- E. Librarian Office
- F. Workroom
- G. Multi Media Lab
- H. Staff Toilets

Design Criteria:

A. Instructional Seating / Stacks Area

General Requirements:

- This area will provide student use of the library, which will include two separate instructional groups of tables, to accommodate 35 students each, study carrels and informal seating area. The two instructional areas should be considered teaching stations with appropriated voice, data, projection and televisions with marker boards.
- The LMC should be provided with a main entrance directly from the main corridor with a secondary exit to accommodate code requirements.
- The LMC should be centrally located to the academic areas. The Media Center should be designed and equipped such that as many functions as possible are computerized. Provide 35 computers in the classroom areas. Networking with other libraries and information sources must be considered.
- Include space for six (6) computer workstations that will accommodate the library catalog as well as other databases used for reference and research.

Workstations shall be a combination of stand up and sit down workstations. Allowing one station to meet ADA accessibility requirements.

- Provide shelving to accommodate 20 books per student with a 33% spare capacity. The shelving should be predominately perimeter shelving with some interior shelving units. For planning purposes use 1.25 inches for each volume to determine shelving requirements. All shelving along walls is to be full height and shelving in the interior of the room is not to exceed 43" in height.
- A circulation desk will be provided with two (2) transaction counters and integral book drop. The circulation desk should be designed based upon a modular library furniture manufacturer. It is recommended that the library layout be reviewed and coordinated with the District Media Specialist. Provide an area adjacent to the circulation desk to accommodate a copying machine for student use with staff supervision.
- Provide rough-in services to facilitate the future installation of book theft equipment. Coordinate rough-in requirements to meet specifications for District standard equipment.
- Provide visual access to all areas of the LMC for supervision from the circulation desk.
- Wireless phone system is required for Librarian and Technicians to allow for better supervision of the LMC.

Furnishings Criteria:

- Library shelving, by Owner
- Circulation desk, by Owner
- Research workstations, by Owner
- Tables, chairs and informal seating, by Owner

Equipment Criteria:

- Provide two locations for Smart Boards, projection screens, 4x12 marker boards and 4x4 tack boards,
- Book theft detection equipment, to be provided by Owner.

B. Conference Room

General Requirements:

- A major need in a media center is to have a place where students, either singly or in small groups, may meet to address a variety of learning requirements. These rooms should be directly adjacent to each other and have an operable wall between them to maximize their flexibility.

Furnishings Criteria:

- Conference tables and chairs

Equipment Criteria:

- Provide Smart Board and 4'x 8' marker board

C. Periodical Storage

General Requirements:

- The area will provide the storage and retrieval of periodicals and software. The periodical storage room should be adjacent to the circulation desk. Provide adequate space and configuration for efficient shelving layout.

D. AV Storage

General Requirements:

- The room provides a centralized location for circulation storage and retrieval of AV equipment and supplies. Provide space for minor repairs and testing. Room should be adjacent to the circulation desk and have direct access to a corridor.

Casework Criteria:

- Provide a min. of 6' long work counter, 36" AFF.

E. Librarian Office

General Requirements:

- The Librarian office should be adjacent to the circulation desk and have visual supervision of the instructional areas and the main entrance. Provide area for desk, lateral file, and two side chairs.

F. Workroom

General Requirements:

- The workroom shall be directly located behind the circulation desk and will be used as a work area for staff and student aides to perform task such as book repair, typing, copying, collating, dry mounting and laminating.
- Provide base and upper cabinets along perimeter of room. Provide 30" deep counters to accommodate equipment such as laminator, paper cutter, etc.
- Provide large single compartment sink.

Casework Criteria:

- Provide a combination of cabinets with lockable doors and open shelving.
- Provide three (3) 24" wide drawer units.

G. Multi Media Lab

General Requirements:

- The multi-media lab is a technology-based lab to accommodate 15-18 workstations directly adjacent to the media center. The multi-media lab will have direct access from the stack area of the media center. Workstations will be located along perimeter walls with centrally grouped tables. Counter space will be required to accommodate a scanner, printers and other media formats.
- The multi-media lab should have acoustical separation with visual supervision from the circulation desk.
- The multi media lab will be adjacent to the Multi-purpose room with an operable partition between them to facilitate larger group settings.

Casework Criteria:

- Provide CPU workstations at 28" AFF.

K. Staff Toilets

General Requirements:

- Provide a single occupant handicapped accessible toilet room for each gender. Access toilets from the work room.

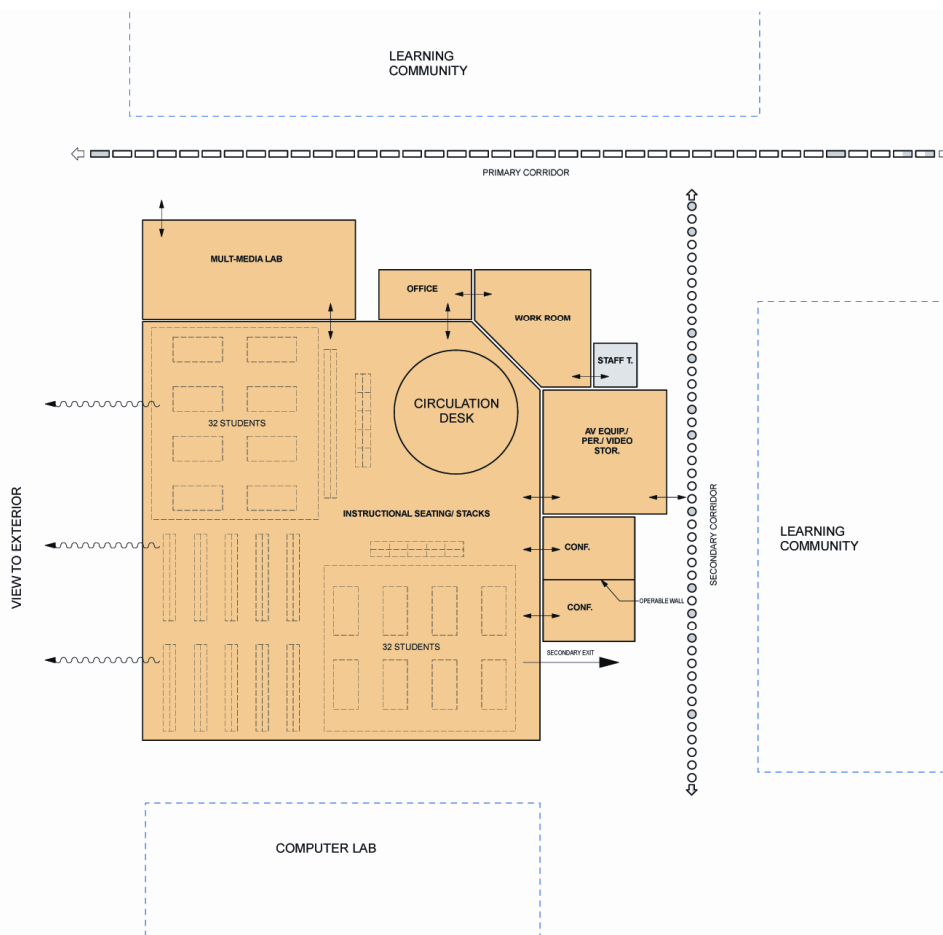
Signage Criteria:

- Provide ADA acceptable room identification sign.

Summary of Program Space:

| LIBRARY MEDIA CENTER | | | | | | | |
|---------------------------------------|-----|------|--------------|-------------|----------|-----------|----------|
| Instructional Seating/Stacks | 1 @ | 4300 | 4300 | | | | |
| Conference rms. | 2 @ | 150 | 300 | | | | |
| AV Equipment/Periodical/Video Storage | 1 @ | 400 | 400 | | | | |
| Office | 1 @ | 120 | 120 | | | | |
| Workroom | 1 @ | 300 | 300 | | | | |
| Multi Media Lab | 1 @ | 550 | 550 | | | | |
| Staff Toilets | 1 @ | 50 | 50 | | | | |
| Subtotal | | | 6,020 | S.F. | 0 | TS | 0 |

Adjacency Diagram:



TECHNOLOGY

Space Description:

The Computer Lab is a component of the exploratory learning area used to instruct student's basic keyboard skills and enhance existing skills and software knowledge.

The Technology area is organized around the following spaces:

- A. Computer Lab
- B. Office/Storage

Design Criteria:

A. Computer Lab

General Requirements:

- Computer lab should be designed with a flat floor and should enable a configuration for students to receive instruction and operate effectively at the CPU workstation.
- Provide floor space and workstations for 32 students. For ease of configuration, school purchased portable computer tables should be used in lieu of built-in counters.
- Provide worksurface for peripheral equipment including two (2) printers, scanner, and CD-ROM players.
- Provide wall space for 8 ft. "Smart Board".
- Provide utilities for a ceiling mounted projector.

Casework Criteria:

- Provide 24" deep base cabinets by 6' long section of locking base cabinets with 12" deep upper wall cabinets.
- Provide a 5' tall AV cabinet for TV monitor, located at the front instructional wall.

Furnishings Criteria:

- Work tables and chairs, by Owner
- Waste baskets, by Owner

Equipment Criteria:

- Provide 4x16 markerboard and 4x4 tackboard.
- Projection Screen
- TV monitor, by Owner

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions for each classroom.
- Materials shall be submitted to the Owner for review prior to installation.

Mechanical/Plumbing Criteria:

- The computer lab should provide a maintainable temperature of approx. 68 degrees.

Electrical Criteria:

- Provide electrical power to accommodate computers, printers and peripheral

system hardware. Power should be provided via plugmold for student stations at perimeter walls and floor outlets at tables.

- Provide a master power switch at the wall near the teacher station.

Lighting Criteria:

- Provide a lighting pattern and fixtures that minimizes glare on monitor screens.
- Provide dual level lighting enabling 30 footcandles and 50 footcandles maintained at 36" AFF.

Technology Criteria:

- Provide data terminals at workstations with integral power and data plugmold.

B. Tech Office/Storage Area

General Requirements:

- Locate office area in a manner to maximize supervision of computer lab and easy access to the corridor without causing disruption to the computer lab.
- Provide doors with view lite for supervision.

Casework Criteria:

- Provide two (2) 5'-0" wide workstations, counter depth at workstations should be 30". Provide 18" wide drawer unit for personal use. Provide 36" wide by 84" tall storage cabinet for coat storage.
- Provide a 30" deep workcounter by min. of 6' long, with lockable base cabinets with wall cabinets above. Counter height shall be 36" AFF.

Furnishings Criteria:

- Provide chairs at workstations, by Owner
- Provide keyboard trays for workstations, by Owner

Equipment Criteria:

- Workstations shall be designed to accommodate CPU workstations.

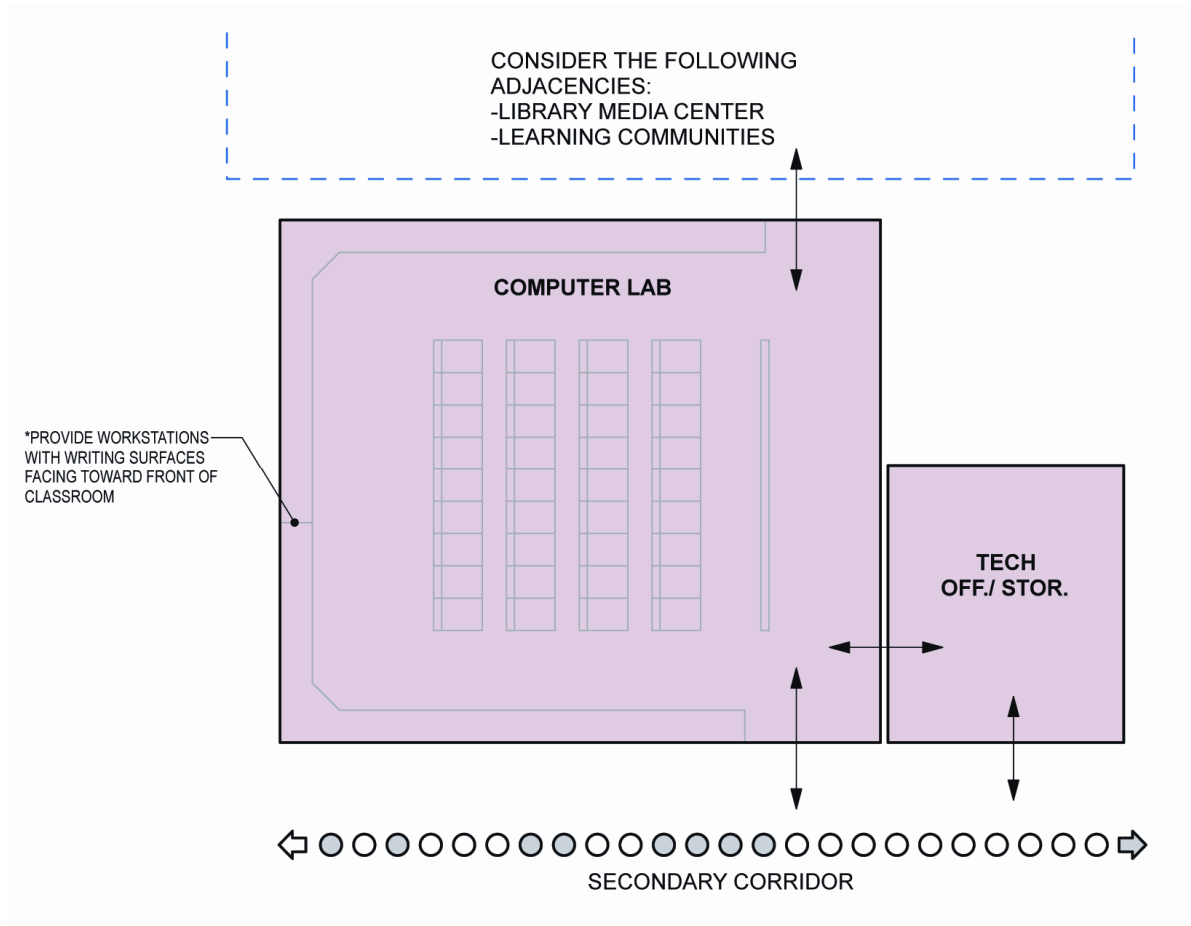
Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.

Summary of Program Space:

| TECHNOLOGY | | | | | | | | | |
|---------------------|-----|------|--------------|-------------|----------|-----------|--|--|----------|
| Computer Lab | 2 @ | 1200 | 2400 | | 0 | TS | | | 0 |
| Tech Office/Storage | 1 @ | 250 | 250 | | | | | | |
| Subtotal | | | 2,650 | S.F. | 0 | TS | | | 0 |

Adjacency Diagram:



FOOD SERVICE/CAFETORIUM

Space Description:

The Food Service/Cafetorium spaces provide opportunities for social interaction of all users during the operations of the school. The space should be designed to create an inviting and responsive multi-purpose space that combines the activities of a cafeteria and meets the operational requirements of a auditorium. The Cafetorium will support food service activities, performing arts programs, musical programs, student assemblies and special before and after school programs. Consideration should be given to the optimum location for the Cafetorium and its ability to be used as an overflow area adjacent to the gymnasium, for before and after game activities. Direct access from the Cafetorium to the exterior hard court play area is desired.

The Food Service/Cafetorium area is organized around the following spaces:

- A. Cafetorium
- B. Staff Resource Room
- C. Servery
- D. Kitchen
- E. Stage/Orchestra Room
- F. Stage Storage
- G. Chair Storage
- H. Student Store
- I. Stage Controls

Design Criteria:

A. Cafetorium

General Requirements:

- The dining area of the Cafetorium should be designed to accommodate 30% of the student capacity, plus an additional 10%, and 600 people in non-fixed seating for performances. A preferred table layout would accommodate 60% round tables and 40% rectangular, assume seats are integral to the table. The Cafetorium will serve as a student activity area and must be flexible to house parties, pep rallies, dances, student council meetings, etc. Pay phones need to be located near the entrance.
- The space should be designed without a tiered floor. Provide adjacent chair and table storage during performances. Windows to the exterior are required. Minimum sill heights should not be lower than 24 inches. Due to the performance nature of the space, the ability to control daylight and acoustics within the space is mandatory.
- Wall areas are to be painted or covered to make the area visually appealing for middle school students. Ample displays for student art work should also be encouraged.
- A drinking fountain should be included within the dining area and restroom facilities must be provided near by.
- The dining area should be design to allow direct access onto exterior play areas, so those students may exit directly outside.
- District provides food service with some recyclable service ware and trays, there is a requirement for a dish return window.
- Provide a condiment bar with sink.
- Provide vending area for a new pilot program for meal vending.

Furnishings Criteria:

- Tables and chairs, by Owner

- Waste receptacles, by Owner
- Recycling receptacles, by Owner

Casework Criteria:

- 12 lineal feet of counter and base cabinet with sink

Equipment Criteria:

- Wall mounted Flat Screen TV bracket, two locations.
- A sound amplification and recording system, independent of the public address system, is required.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Acoustical treatment is required to produce low reverberation times and high sound absorption.

Lighting Criteria:

- Performance lighting for the stage is required

B. Staff Resource Room

General Requirements:

- The staff lounge and dining area will be adjacent to the Dining/Commons but located so faculty do not have to cross serving lines to enter. The room will accommodate food preparation and be furnished with tables and chairs for dining.
- Provide 18 l.f. base and upper cabinets with a double compartment sink and garbage disposal. Provide a dishwasher and refrigerator with icemaker.
- Provide an adjacent space for staff resource center. Space should accommodate a copier and worktable with 12 lineal feet of base and upper cabinets for material and supply storage.
- Provide a two (2) staff toilet rooms with ADA accessibility and a 4' x 5' telephone room.

Casework Criteria:

- Base and upper cabinets, 30" deep workcounter, 36" AFF.
- Counter in staff phone room, 28" AFF.

C. Servery

General Requirements:

- The servery is a space designated for the staging of students at servery lines. Foot traffic flow patterns need to be carefully located. The servery area should allow adequate flow of students into a defined space leading directly to the dining area.
- Consideration should be given to maintain visual supervision of service lines from point-of-sale locations.

- The servery should provide three (3) serving lines; the servery space will accommodate the point of sales feature for each. Provide phone lines and required power outlets to support this function.
- Servery design should provide efficiency for minimum kitchen staff. Arrange servery similar to sports stadiums or fast food serving counters.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions.
- Materials shall be submitted to the Owner for review prior to installation.

D. Kitchen

General Requirements:

- Unless otherwise directed, provide a preparation kitchen designed to meet the District Middle School prototype kitchen plan, encompassing a dishwashing and clean up area, food preparation area, freezer, cooler, dry storage, toilet and managers office. Provide metal lockers for personal items of staff. A closet to accommodate a stackable washer and dryer and janitor mop sink are required.
- The manager's office must provide sufficient space for a desk and workspace. The office should also provide a space for filing cabinets and other storage. Telephone and computer provisions should be provided.
- Locate kitchen adjacent to an exterior delivery area and screened trash pick-up/recycling area. Trash pick-up/recycling area is to include three (3) 6 yard dumpsters for recycling, (1) 6 yard dumpster for trash, and (1) 6 yard dumpster for composting. An exit door 3'-6" wide must be provided. Loading dock shall be a min. of 32" high, provide ramp access to grade. Consider orientation of the loading dock area to minimize weather-related conditions at the loading dock for early morning deliveries.
- Provide an air curtain at doorway leading to the loading dock.
- Loading Dock shall be 32" above asphalt drive. Provide space for two trucks. Consideration should be given to the orientation of the loading dock to prevent icing of the walk surfaces.

E. Stage / Orchestra Room

General Requirements:

- Provide a raised performance platform area to accommodate 75 students and musical arrangements. The platform should be the same height as adjacent corridors, or ramps must be provided to facilitate moving of equipment and ADA access. Door locations should facilitate movement of equipment and groups on and off stage. Stage should be adjacent to the music classrooms.
- Provide a 45-55' wide proscenium opening with tracks, stage curtains and cyclorama curtains. Space should be provided in front of proscenium to accommodate off-stage activities. Height of the proscenium shall be a min. of 20' above stage platform.
- Provide operable partition at the proscenium opening to utilize the stage as an instructional area while maintaining the use of the dining area.

Equipment Criteria:

- Theatrical curtain tracks, stage curtains, and cyclorama curtains.
- The lighting system should include spotlights, light controls and dimmer

system. Light controls should be located in the stage controls room at the rear of the audience area.

- A sound amplification and recording system, independent of the public address system, is required.
- Provide a large retractable projection screen.
- 4 ft. x 16 ft. white board for drama classroom that is hidden from view during performances.

Signage Criteria:

- Provide ADA acceptable room identification and exit signs as required by the design of the facility.
- Provide 8.5" x 11" printed graphic and text illustrating fire exit pathway and tornado drill instructions.
- Materials shall be submitted to the Owner for review prior to installation.

Acoustical Criteria:

- Acoustical treatment is required to produce low reverberation times and high sound absorption.

Lighting Criteria:

- Performance lighting for the stage is required and should include spotlights, light controls and dimmer system. Light controls should be located in the stage controls room at the rear of the audience area.

F. Stage Storage

General Requirements:

- Provide stage storage directly adjacent to the performance platform to accommodate the storage of stage props and equipment. Provide a double door to facilitate easy access. Provide a tub sink to facilitate clean up of stage sets.

G. Chair Storage

General Requirements:

- Provide chair storage directly adjacent to the dining Cafetorium area. Provide a double door to facilitate movement of tables and chairs carts.
- Provide space to accommodate four (4) chair trucks (2'x10.5") and tables used in the dining area.

F. Student Store

General Requirements:

- A student store area should be provided adjacent to the Cafetorium or main entrance. Adequate storage and shelving need to be provided. Provide an overhead coiling counter door to facilitate transactions. Appropriate electrical outlets should be provided for a freezer, pop machine and other equipment.
- Provide display cases in close proximity to student store to showcase items for purchase.
- Provide single compartment sink to facilitate cleaning.

Signage Criteria:

- Provide ADA acceptable room identification sign.

G. Stage Controls

St. Vrain Valley School District

General Requirements:

- Provide control area for stage lighting and sound.
- Locate in the rear of the audience area.
- Locate several steps above audience to allow clear view of stage area.

Signage Criteria:

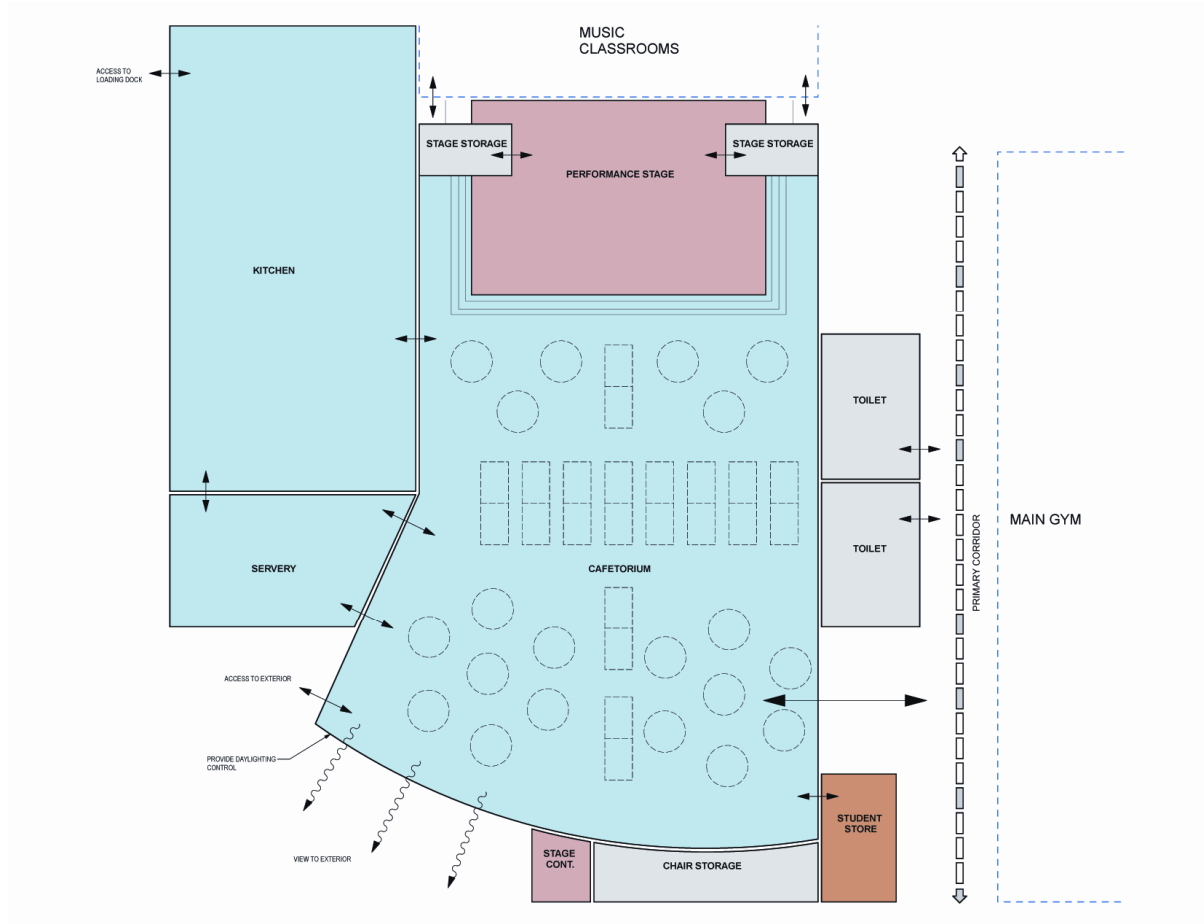
- Provide ADA acceptable room identification sign.

Summary of Program Space:

| FOOD SERVICE/CAFETORIUM – 750, 975 STUDENT MIDDLE SCHOOL | | | | | | | | |
|---|-----------------|------|--------------|-------------|----------|-----------|--|--|
| Cafetorium (340 students x 15 sf/student) | 1 @ | 5100 | 5100 | | | | | |
| Servery | 1 @ | 300 | 300 | | | | | |
| Kitchen | 1 @ | 2000 | 2000 | | | | | |
| Stage/Orchestra Room | 1 @ | 1200 | 1200 | | | | | |
| Stage Storage | 1 @ | 200 | 200 | | | | | |
| Chair Storage | 1 @ | 250 | 250 | | | | | |
| Student Store | 1 @ | 200 | 200 | | | | | |
| Stage Controls | 1 @ | 80 | 80 | | | | | |
| | Subtotal | | 9,330 | S.F. | 0 | TS | | |

| FOOD SERVICE/CAFETORIUM – 1200 STUDENT MIDDLE SCHOOL | | | | | | | | |
|---|-----------------|------|---------------|-------------|----------|-----------|--|--|
| Cafetorium (400 students x 15 sf/student) | 1 @ | 6000 | 6000 | | | | | |
| Servery | 1 @ | 300 | 300 | | | | | |
| Kitchen | 1 @ | 2000 | 2000 | | | | | |
| Stage/Orchestra Room | 1 @ | 1200 | 1200 | | | | | |
| Stage Storage | 1 @ | 200 | 200 | | | | | |
| Chair Storage | 1 @ | 250 | 250 | | | | | |
| Student Store | 1 @ | 200 | 200 | | | | | |
| Stage Controls | 1 @ | 80 | 80 | | | | | |
| | Subtotal | | 10,230 | S.F. | 0 | TS | | |

Adjacency Diagram:



ADMINISTRATION

Space Description:

The central administration area should be located near the main entrance to the school and should provide adequate space for personnel to conduct day to day school operations (i.e. bookkeeping/financial activities and other business associated with the parents, students, and faculty). Administration should have a main entrance with a secondary entrance for student disciplinary issues. The layout of the administration area should acknowledge the need to separate these needs.

The Administration area is organized around the following spaces:

- A. Principal Office
- B. Assistant Principal Office(s)
- C. Dean's Office
- D. Reception Area
- E. Conference Room
- F. Workroom
- G. Staff Toilet
- H. Bookkeeper
- I. Attendance
- J. Health Center
- K. In-school Suspension Classroom
- L. Security Office
- M. Storage

Design Criteria:

A. Principal Office

General Requirements:

- The principal office should be located immediately off the central administration area but separated visually and acoustically. It is important the office has access to a secondary corridor and immediate access to a conference room. The main school entrance should be visible from the principal office for supervision.
- The space should accommodate a desk, credenza side chairs, and a 48" round conference table.

Furnishings Criteria:

- Desk, credenza, chair and conference table, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

B. Assistant Principal Office(s)

General Requirements:

- The assistant principal offices should have direct access to the central office area and the main corridor and one should be located adjacent to the

- attendance office. Offices require doors with adjacent sidelights to maintain visual supervision. Rooms shall accommodate a desk and space for two side chairs.

Furnishings Criteria:

- Desk and chairs, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

C. Multi-Purpose Office

General Requirements:

- The multi-purpose office is similar to the assistant principal office(s) and should be located in close proximity to the ISC room. The office requires a door with adjacent sidelight to maintain visual supervision. Rooms shall accommodate a desk and space for two side chairs.

Furnishings Criteria:

- Desk and chairs, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

D. Reception Area

General Requirements:

- The administration area should be immediately identifiable from the main entrance. Seating for visitors waiting to meet with administrative personnel should be provided within the reception area. The traffic patterns should be such that faculty and staff are not encouraged to travel through the Administrative area to reach the workroom or staff mailboxes. The reception area will handle contact with the public, faculty and students.
- The reception area consists of a secretarial area (two support positions: a head secretary, principal secretary and two (2) student aides). Provide power and data for CPU workstations at each workstation and allow for printer and fax machine.
- The waiting area should accommodate ten to twelve (10-12) people.
- The reception area should have visual supervision to the Health Center and direct access to the attendance and bookkeeping offices.
- Provide a 4x16 tackboard for posting of announcements and school events.

Furnishings Criteria:

- Built-in workstations for the reception area are not recommended. The preference is for the school to purchase furniture systems, which can be easily reconfigured. Provide room to accommodate two (2) four drawer lateral files.

Signage Criteria:

- Provide ADA acceptable room identification sign.

E. Conference Room

General Requirements:

- The conference room shall have direct access from the principal's office and proximity to the assistant principal's office. The room should be designed to accommodate an operable partition to increase flexibility. Conference room shall be designed to accommodate up to twelve to fourteen (12-14) people.

Casework Criteria:

- Provide a minimum of 5 lin.ft. of base cabinets with single compartment sink.

Furnishings Criteria:

- Provide a 4'x8' markerboard.
- Conference table and chairs, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

F. Workroom

General Requirements:

- The workroom should be located next to the general office area and have direct access to a hallway other than the main administration entrance. Staff, faculty, aides and volunteers will use this room. Provide a coat closet for staff use.
- The room should be equipped with a large amount of storage for office supplies and for reserve instructional materials, which will be distributed throughout the school. A workroom must provide space for equipment necessary for the production and reproduction of administrative materials.
- The room should be equipped with a double compartment sink, garbage disposal, dishwasher, and refrigerator (with icemaker). Provide a 4'x7' floor area and power for a large 208-volt copier.
- Provide a minimum of 100 mailboxes 15"x11"x2" min. to accommodate the distribution of mailings and correspondence.

Casework Criteria:

- Provide base and wall cabinets. Allow area in the center of the room for a worktable.

Furnishings Criteria:

- Provide a 4'x8' markerboard, with 4'x8' tackboard.
- Worktable and chairs, by Owner.
- Dishwasher and refrigerator, by Owner.
- Copier, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

G. Staff Toilets

General Requirements:

- Provide a single occupant handicapped accessible toilet room for each gender.

Signage Criteria:

- Provide ADA acceptable room identification sign.

H. Financial Office

General Requirements:

- The financial office should be located in the administrative area, the office facilitates necessary business transactions between the school and students. The office should have a door with direct access to the reception area and a transaction window to the corridor with an operable counter door.
- The office may contain the school safe and require a locking door.

Casework Criteria:

- Provide 30" high workcounter with 18" wide undercounter cabinets.

Furnishings Criteria:

- Workstation chair and wastebasket, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

I. Attendance Office

General Requirements:

- The attendance office should be located in the administrative area, the attendance office should have a door with direct access to the reception area and a transaction window to the corridor with an operable counter door.

Casework Criteria:

- Provide 30" high workcounter with 18" wide undercounter cabinets.

Furnishings Criteria:

- Workstation chair and wastebasket, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

J. Health Center

General Requirements:

- The health center consists of three (3) discrete areas of use, consisting of toilet facilities, health room and an office/screening area. The health center should be located next to the secretarial area for possible supervision by the secretary. Provide cot areas per Colorado Dept. Health and Dept. of Education requirements. The configuration of the center should allow enough length for eye exams. Access to the center should be from a corridor and the administrative area. All facilities in the center area should be handicapped accessible.
- Provide two (2) accessible toilet rooms with an out-swing door.

Casework Criteria:

- The center shall contain a desk space to accommodate a nurse's aide.
- Provide locking upper and lower cabinet for medical supplies and a single compartment sink with bubbler. Provide space for under counter refrigerator

Furnishings Criteria:

- Workstation chair and wastebasket, by Owner
- Undercounter refrigerator, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

K. In-school Suspension Classroom (ISC)

General Requirements:

- In-school suspension room should be provided adjacent to the assistant principal's office with the capacity of visual control.
- Provide a small waiting area outside these rooms to accommodate four to six (4-6) students and should be screened from the main waiting area with adequate space for the display of informational materials.
- Access to the rooms should be from a secondary entrance into the administrative area.
- Consideration should be given to provide access from the main corridor to allow after-hour use of the classroom as a community room.

Casework Criteria:

- None.

Furnishings Criteria:

- Provide 4' x 12' markerboard.
- Provide desks and wastebasket, by Owner
- Tables and chairs, by Owner

Signage Criteria:

- Provide ADA acceptable room identification sign.

Electrical Criteria:

- Provide close circuit TV camera system in each room.

L. Security Office

General Requirements:

- Provide a security office for the use of non-district personnel use.
- Office should be located adjacent to the In-school suspension classroom and have direct access to the corridor.

Casework Criteria:

- Provide 30" high workcounter with 18" wide undercounter cabinets

Signage Criteria:

- Provide ADA acceptable room identification sign

M. Storage

St. Vrain Valley School District

General Requirements:

- Provide a lockable storage room adjacent to the workroom.

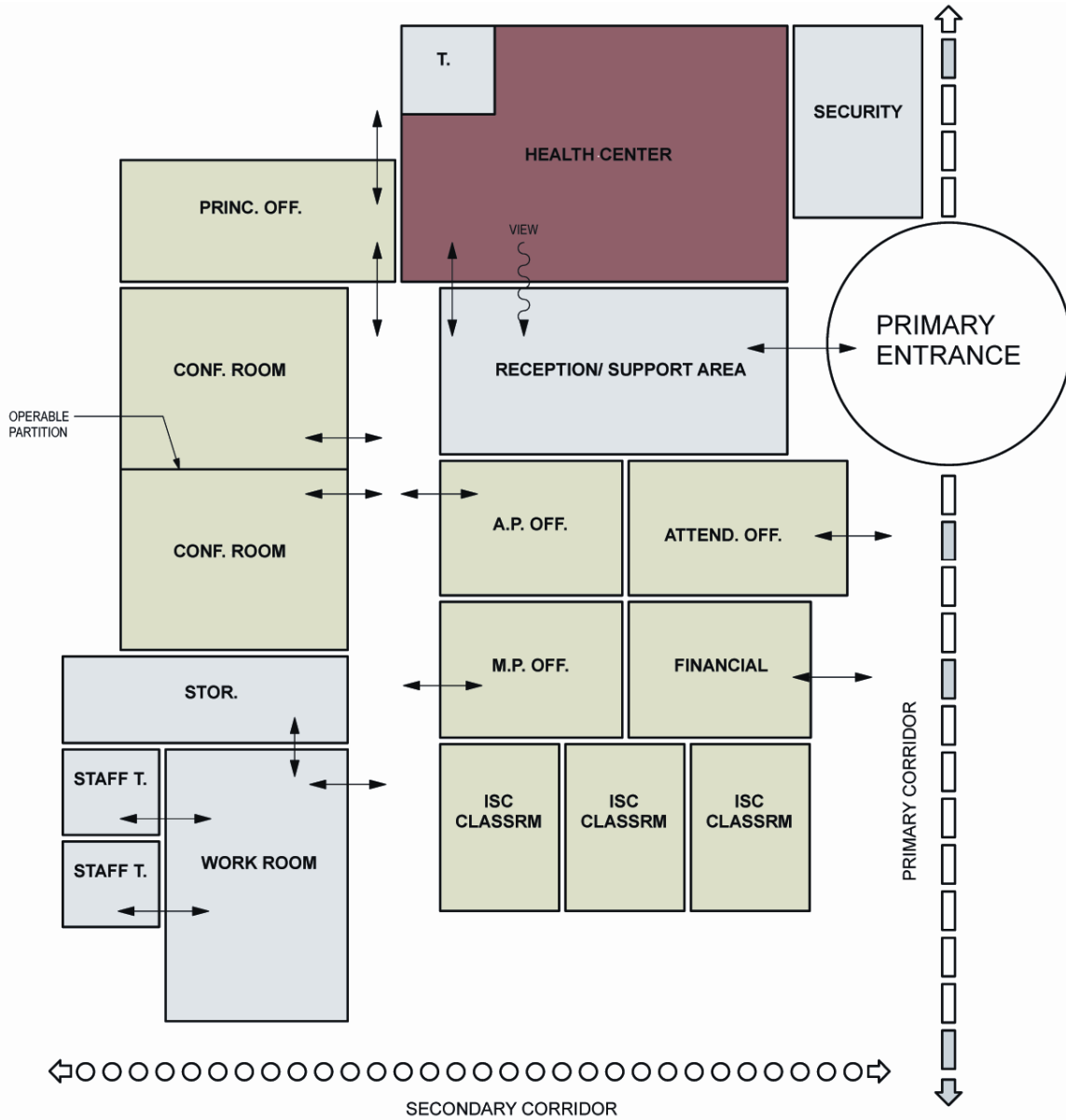
Signage Criteria:

- Provide ADA acceptable room identification.

Summary of Program Space:

| ADMINISTRATION | | | | | | | |
|-----------------------------|---|---|-----|-----|--------------|-------------|--------------------|
| Principal's Office | 1 | @ | 200 | 200 | | | |
| Asst. Principal Offices | 1 | @ | 150 | 150 | | | |
| Multi-Purpose Office | 1 | @ | 150 | 150 | | | |
| Reception Area | 1 | @ | 350 | 350 | | | |
| Conference Room (divisible) | 1 | @ | 500 | 500 | | | |
| Workroom | 1 | @ | 300 | 300 | | | |
| Staff Toilets | 2 | @ | 50 | 100 | | | |
| Financial Office | 1 | @ | 150 | 150 | | | |
| Attendance Office | 1 | @ | 180 | 180 | | | |
| Health Center w/ toilet | 1 | @ | 600 | 600 | | | |
| ISC Classroom | 3 | @ | 120 | 360 | | | |
| Security Office | 1 | @ | 150 | 150 | | | |
| Storage | 1 | @ | 150 | 150 | | | |
| Subtotal | | | | | 3,340 | S.F. | 0 TS |

Adjacency Diagram:



COUNSELING

Space Description:

The Counseling area should be kept intact as a unit. It is to be part of the administrative complex. It must be located such that it is easily accessible to students and easily reached by parents or visitors to the building. Consideration should be given to benefits created by locating Counseling in close proximity to the severe needs classroom.

Located adjacent to the administrative area, the student services should be separated from, yet directly accessible to, the administrative area. Access and waiting areas should be separate from the administration area so as to separate, in the minds of students, the different function of the two areas. In addition to the main entrance into Counseling, provide a secondary entrance from a alternate corridor if possible.

The Counseling area is organized around the following spaces:

- A. Counseling Offices
- B. Multi-purpose Offices
- C. Conference Room
- D. Staff Toilet
- E. Reception/Waiting
- F. Records

Design Criteria:

A. Counseling Offices

General Requirements:

- Offices should be in close proximity to the shared conference room and within close proximity to the reception area. Offices require doors with adjacent sidelights to maintain visual supervision. Rooms shall accommodate a desk space, two chairs and a 36" round conference table.

Furnishings Criteria:

- Desk, chairs and conference table, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

B. Multi-purpose Offices

General Requirements:

- Provide office space for itinerant's specialist use (i.e. psychologists, social workers, etc.). Offices should be in close proximity to the shared conference room and within close proximity to the reception area. Multi-purpose offices may be grouped with support offices for the special needs area. Offices require doors with adjacent sidelights to maintain visual supervision. Rooms shall accommodate desk space two side chairs.

Furnishings Criteria:

- Desk, chairs and conference table, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

C. Conference Room

General Requirements:

- Conference room shall be designed to accommodate up to twelve to sixteen (12-16) people. The room should be designed to be subdivided with operable wall partition.

Equipment Criteria:

- TV monitor, by Owner. Assume the maximum monitor size to be 32" diagonal.

Furnishings Criteria:

- Provide two (2) markerboards at opposite sides of the operable partition.
- Conference table and chairs, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Due to the sensitive nature of the interactions within these spaces appropriate acoustical separation is required.

D. Staff Toilet

General Requirements:

- Provide unisex staff toilet consisting of watercloset, sink and mirror unit.

Signage Criteria:

- Provide ADA acceptable room identification sign.

E. Reception/Waiting

General Requirements:

- The reception area will handle contact with the public, faculty and students. Reception area should have direct access to the main corridor and close proximity to the administration area and the special need spaces.
- Provide a workspace for a secretary and two (2) student aides. The waiting area should accommodate eight to ten (8-10) people with adequate space for the display of informational materials.

Furnishings Criteria:

- Built-in workstations for the reception area are not recommended. The preference is for the school to purchase furniture systems, which can be easily reconfigured.

Signage Criteria:

- Provide ADA acceptable room identification sign.

F. Records Room

General Requirements:

- The records room shall be designed to accommodate student records, past and present, and should have direct adjacency to the receptionist workstation. Counselors and attendance staff will use the records room. Provide space for Xerox machine. Room should accommodate a min. of six (6) 4' high lateral files. Access to room should be located to allow supervision at all times.

Casework Criteria:

- Provide a 5' long workcounter, 36" AFF, to accommodate sorting of records.

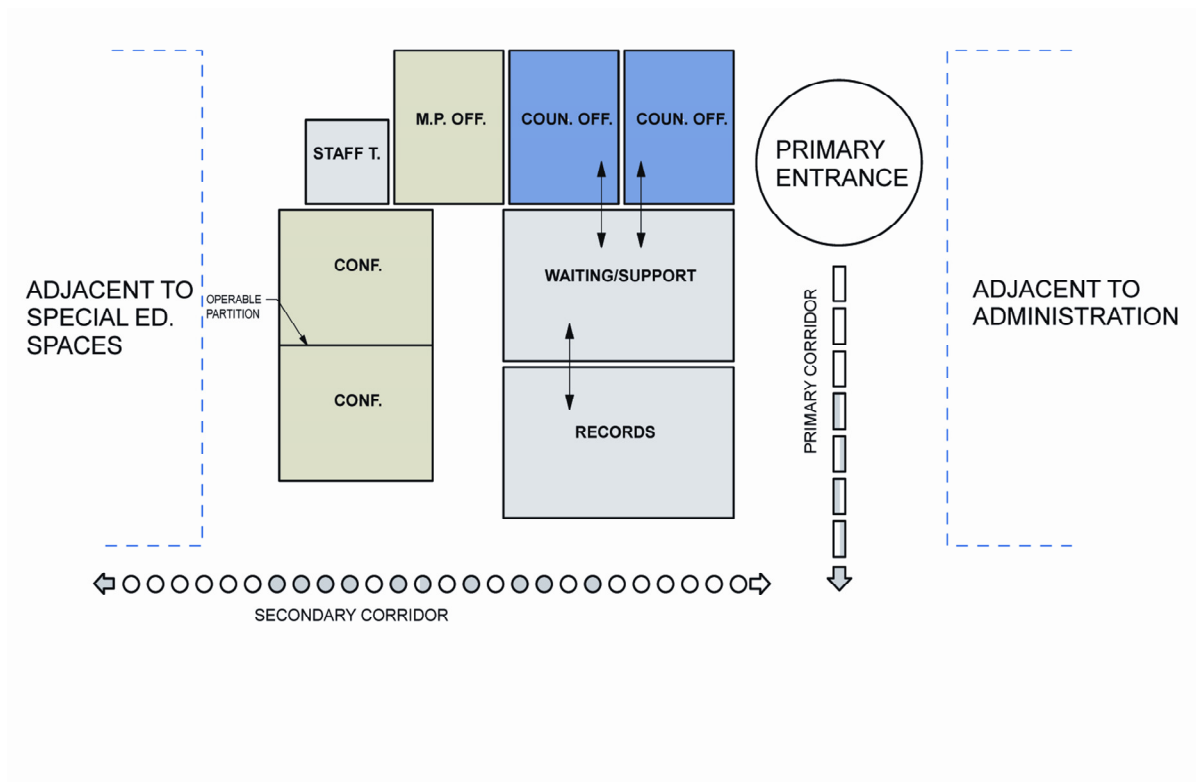
Signage Criteria:

- Provide ADA acceptable room identification sign.

Summary of Program Space:

| COUNSELING | | | | | | | | | |
|----------------------|-----|-----|-----|--------------|-------------|----------|-----------|--|--|
| Counseling Offices | 2 @ | 200 | 400 | | | | | | |
| Multipurpose Offices | 1 @ | 120 | 120 | | | | | | |
| Conference Room | 1 @ | 300 | 300 | | | | | | |
| Staff Toilet | 1 @ | 50 | 50 | | | | | | |
| Reception/Waiting | 1 @ | 250 | 250 | | | | | | |
| Records | 1 @ | 250 | 250 | | | | | | |
| Subtotal | | | | 1,370 | S.F. | 0 | TS | | |

Adjacency Diagram:



BUILDING SERVICES

Space Description:

The spaces, which encompass Building Services, provide support for the student, administrative and instructional spaces. It is crucial that consideration be given to the location of these spaces within the building to maximize the efficiency of the users and operators of the building. The design and layout of these spaces should be reviewed with the District Maintenance and Custodial steering committee.

The Building Services area is organized around the following spaces:

- A. Student Toilets
- B. Custodial Closets
- C. Main Communication (MDF) Room
- D. Intermediate Distribution Room (IDF)
- E. Custodial Office
- F. Custodial Meeting/Break Room
- G. Receiving/Supply Area
- H. Loading Dock
- I. Outside Agency Storage
- J. Exterior Storage
- K. Mechanical Room
- L. Electrical Room

Design Criteria:

A. Student Toilets

General Requirements:

- Provide accessible toilet facilities per each academic suite and near the Gymnasium, Cafetorium, Auditorium and the Administration area. Ceiling heights shall be a minimum of 8'-6" AFF. The design should be configured for visual privacy at each entrance, preferably without a door.
- Quantity of drinking fountains should be determined by applicable building codes. Locate fixtures near the toilet facilities. Drinking fountains are not required to be refrigerated type.

Casework Criteria:

- Provide accessible pipe enclosure at below lavatories in countertops (30" AFF).

Furnishings Criteria:

- Provide mirror units at lavatories.
- Toilet paper dispensers, by Owner.
- Soap dispensers, by Owner.
- Paper towel dispensers, by Owner.
- Sanitary napkin disposal units, by Owner.

Equipment Criteria:

- Provide a min. of two (2) hand dryers.

Signage Criteria:

- Provide ADA acceptable room identification signs and exit signs as required by the design of the facility.

Acoustical Criteria:

- Provide adequate acoustical separation from the instructional suite.

B. Custodial Closets

General Requirements:

- Strategically located Custodial Closets (adjacent to student restrooms and near Cafetorium, Auditorium and Gymnasium). Provide adequate space for assigned equipment such as riding vacuum sweepers, riding floor scrubbers and custodial portable caddies.
- Provide in each custodial closet a 24" x 24" floor mounted service sink with heavy-duty faucet set with 48" high wainscot of reinforced fiber panel (RFP) around service sinks.

Equipment Criteria:

- Wall mounted broom and mop rack, by Owner.
- Metal utility shelving, by Owner.
- Soap/Cleaner dispenser, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign as required by the design of the facility.

C. Main Communication (MDF) Room

General Requirements:

- Each school is required to have a main communications (MDF) room to house all building special systems control equipment. The main communication (MDF) room must be connected to remote intermediate data closets. Provide proper space for (5) 19 inch server racks with a minimum of 3 feet clear dimension in front and back of the racks. Also provide a 3 foot x 4 foot phone switch with 3 feet clearance around it.
- The room should be located in or near the administrative suite with direct corridor access.
- Mount a min. of 8 l.f. of ¾" non-com plywood on two walls.
- Provide dedicated cooling system, only for this room. This system will not be shut down during summer months.

Equipment Criteria:

- Equipment racks, by Owner
- Fire Alarm and Voice Mail control panels
- Red Emergency Phone.
- Card access hardware.

Signage Criteria:

- Provide ADA acceptable room identification sign as required by the design of the facility.

D. Intermediate Distribution Room (IDF)

General Requirements:

- Provide Intermediate Distribution Rooms as required to accommodate IT panels and racks.
- The room shall be located to maximize flexibility of the IT backbone system for present and future use.

- Equipment requirements for IDF rooms may change based upon cabling requirements and decisions by the District to use fiber optic cable into the classroom. Confirm IT cabling requirements with District prior to design.
- Provide dedicated cooling system for this room only. This system will not be shut down over the summer months.

Equipment Criteria:

- Equipment racks, by Owner
- Card access door hardware

E. Custodial Office

General Requirements:

- Provide office directly adjacent to the custodial meeting/break room and receiving /supply area and with direct corridor access. Office should have window or door into the custodial meeting/break room and receiving/supply area for supervision.

Casework Criteria:

- Provide one (1) 5' wide workstation with 18" wide below counter file cabinets. Provide 48" wide by 84" tall storage cabinet.

Furnishings Criteria:

- Wastebasket
- Workstation chair
- 2 visitor chairs
- Tall lateral file cabinet

Signage Criteria:

- Provide ADA acceptable room identification sign.

F. Custodial Meeting/Break Room

General Requirements:

- Provide meeting/break room directly adjacent to the custodial office and receiving/supply area and with direct corridor access. Meeting/Break Room should have a table to seat 6-7 custodians. Provide eight (8) full height lockers, toilet room and a window to the receiving/supply area.

Casework Criteria:

- Provide one 10 lineal feet of base cabinet and counter with a sink.

Equipment Criteria:

- Provide one full height refrigerator, dishwasher, and microwave.
- Provide 8 full height metal lockers.

Furnishings Criteria:

- Wastebasket
- 8 chairs
- 1 conference table that seats 8.

Signage Criteria:

- Provide ADA acceptable room identification sign.

G. Receiving/Supply Area

General Requirements:

- Provide an area directly adjacent to the loading dock to receive deliveries and store custodial supplies. The area should be windowless for security purposes and should have controlled access to a secondary corridor. Provide a pair of 4' wide steel doors or overhead door, if practical, from custodial storage room to loading dock. This area should be located near the recycling/trash removal area.
- Provide space for storing indoor cleaning equipment and floor machines.

Furnishings Criteria:

- Metal storage shelves and cabinets, by Owner.

Signage Criteria:

- Provide ADA acceptable room identification sign.

H. Loading Dock

General Requirements:

- Provide loading dock, 32" above grade adjacent to the receiving/supply area, kitchen and the recycling/trash enclosure.
- Loading dock to accommodate 2 trucks and provide pedestrian access to the service drive.

Equipment Criteria"

- Dock bumpers
- (3) 6 yard recycling dumpsters, by Owner
- (1) 6 yard trash dumpster, by Owner
- (1) 6 yard compost dumpster, by Owner

I. Outside Agency Storage

General Requirements:

- Storage should be provided for outside agencies that use the school after hours to store equipment for their use of building. The room should have direct access to the exterior and a secondary corridor with a pair of 4' wide steel doors, without a center mullion. Room should be located adjacent to other building service spaces.

J. Exterior Storage

General Requirements:

- Exterior storage should be located to store gasoline driven equipment for the use of building maintenance (i.e. ATV with blade, snow blower, mowers, etc.). The room should have direct grade access with a pair of 4' wide steel doors, without a center mullion. Room should be located adjacent to other building service spaces.
- Provide floor drain to facilitate equipment cleaning.

Equipment Criteria:

- Provide adequate power for re-charging equipment for building maintenance.

Acoustical Criteria:

- Provide adequate acoustical separation between adjacent spaces.

K. Mechanical Room

General Requirements:

- Provide adequate floor space to accommodate maintenance of all equipment. Provide direct exterior access with a pair of 4' wide steel doors. All building systems should be screened from public areas, and classrooms.
- Provide adequate floor drains for equipment.

Signage Criteria:

- Provide ADA acceptable room identification sign.

Acoustical Criteria:

- Acoustical separation from adjacent rooms is a critical consideration in the location and design of this space.

L. Electrical Room

General Requirements:

- Provide adequate floor space to accommodate maintenance of all equipment. Provide 3/4" wall mounted non-combustible plywood on all wall surfaces. Provide adequate exits as required by building code.
- Provide exterior mounted emergency generator fueled by a natural gas connection. Coordinate requirements with service provider.
- Provide transformer in screened area.

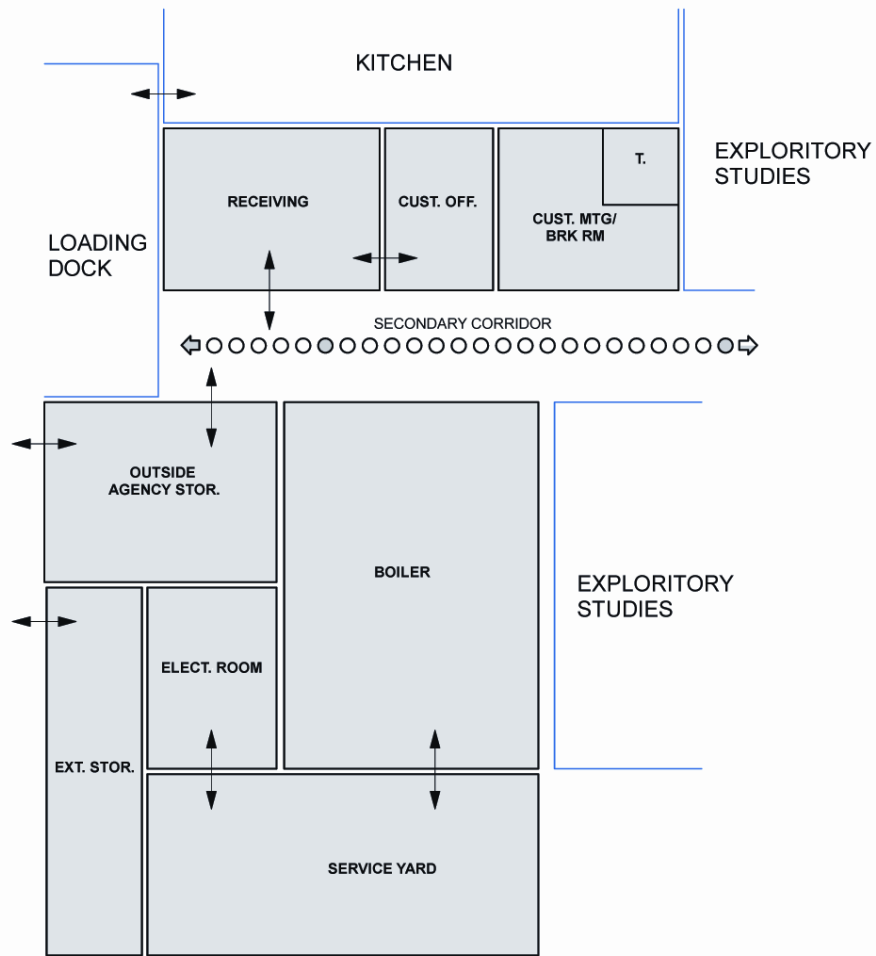
Signage Criteria:

- Provide ADA acceptable room identification sign.

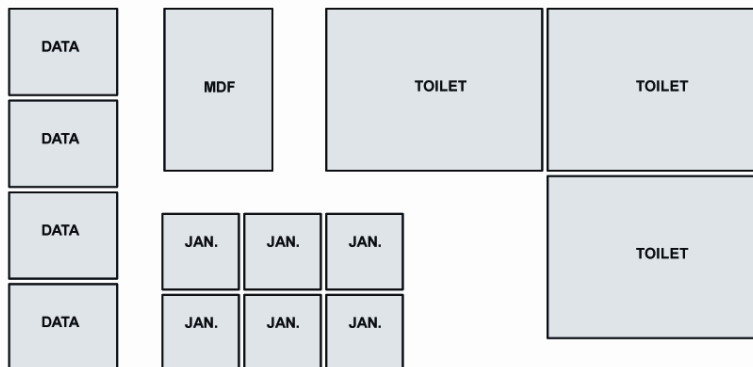
Summary of Program Space:






























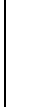
| BUILDING SERVICES | | | | | | | |
|--------------------------------------|-----|------|------|------|----------|----|--|
| Toilets | 3 @ | 300 | 900 | | | | |
| Custodial Closets | 6 @ | 50 | 300 | | | | |
| Communication (MDF) Closet | 1 @ | 150 | 150 | | | | |
| Intermediate Distribution Room (IDF) | 3 @ | 80 | 240 | | | | |
| Custodial Office | 1 @ | 150 | 150 | | | | |
| Custodial Meeting/Break Room | 1 @ | 250 | 250 | | | | |
| Receiving/Supply Area | 1 @ | 300 | 300 | | | | |
| Outside Agency Storage | 1 @ | 360 | 360 | | | | |
| Exterior Storage | 1 @ | 300 | 300 | | | | |
| Mechanical Room | 1 @ | 1000 | 1000 | | | | |
| Electrical Room | 1 @ | 200 | 200 | | | | |
| Subtotal | | | | S.F. | 0 | TS | |










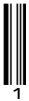













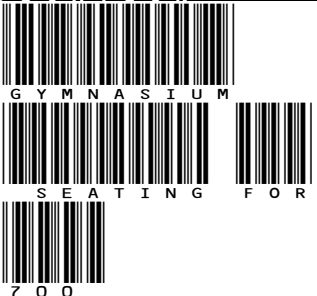
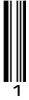







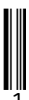






Adjacency Diagram:



LOCATED THROUGHOUT THE FACILITY



| | | | | |
|--|--|--|---|--|
|  ROOM | | | | |
|  BOOK STORAGE |  1 |  1 5 0 |  1 5 0 | |
|  GENERAL STORAGE |  1 |  1 2 0 |  1 2 0 | |
|  TEACHER WORK AREA |  1 |  5 0 0 |  5 0 0 | |
|  STAFF TOILET |  2 |  5 0 |  1 0 0 | |
|  TOTAL PER COMMUNITY | | |  1 0 |  7 7 |
|  SUBTOTAL FOR ALL COMMUNITIES | | |  0 |  S - F - |
| | | |  8 |  T S |
| | | |  2 2 |  4 |
| | | |  3 2 |  3 1 |
| | | |  0 |  S - F - |
| | | |  2 |  T S |
| | | |  2 |  6 7 |
| |  3 |  7 7 0 | | |
|  MUSIC | | | | |
|  INSTRUMENTAL MUSIC |  1 |  1 6 0 |  1 6 0 0 |  0 |
|  VOCAL MUSIC |  1 |  1 4 0 |  1 4 0 0 |  0 |
|  ORCHESTRA |  0 |  0 |  0 |  0 |
| | | |  2 |  8 |
| | | |  2 |  8 |
| | | |  0 |  0 |
| | | |  0 |  0 |

| TECHNOLOGY | | | |
|---|---|--|--|
|  APPLIED TECHNOLOGY LAB |  1 |  160  1600 |  0  T s  2 8  0 |
|  FABRICATION ROOM |  1 |  500  500 | |
|  MATERIAL STORAGE STAFF OFFICE |  1  1 |  150 120  150 120 | |
|  SUBTOTAL | |  2  370  s F |  0  T s  0 |
| PHYSICAL EDUCATION | | | |
|  GYMNASIUM SEATING FOR |  1 |  760 0  7600 |  0  T s  2 8  0 |
|  AUXILIARY GYM |  1 |  580 0  5800 |  0  T s  2 8  0 |



W E I G H T / F I T N E S S



S C R



P E T E A C H E R



O F F I C E / L O C K E R



S



C O A C H E S



O F F I C E / L O C K E R



S



B O Y S L O C K E R



R O O M / S T O R A G E



G I R L S L O C K E R



R O O M / S T O R A G E



A T H L E T I C



S T O R A G E



P E S T O R A G E



E X T E R I O R



S T O R A G E



B U I L D I N G



1



1 6 0



0



1 6 0 0



2



2 5 0



5 0 0



1



3 7 0



3 7 0



1



1 5 0



0



1 5 0 0



1



1 5 0



0



1 5 0 0



1



6 0 0



6 0 0



1



6 0 0



6 0 0



1












5 0 0



5 0 0

| | | |
|--|---|--|
|  SUBTOTAL |  200  570  0  0  0 |  0  0  0 |
|  SPECIAL  EDUCATION | | |
| | | |
|  SEVERE NEEDS |  1  1  1 |  1  1 |
|  CLASSROOM |  00  1  100 |  1  1  0  10 |
|  MODERATE | | |
|  NEEDS |  1 | |
|  CLASSROOM |  580  580 |  1  1  6  6 |
|  SECHANGING |  1 | |
|  RM - / TOILET |  150  150 | |
|  SETEACHER | | |
|  WORKROOM |  1 | |
|  STORAG |  200  200 | |
|  SE | | |
|  SPECIALIST / TH |  1  250  250 | |








St. Vrain Valley School District

| | | |
|---|---|---|
|  THERAPY ROOM  SUBTOTAL | |  2  280  25  2  16 |
|  LIBRARY MEDIA  CENTER | | |
|  INSTRUCTIONAL  SEATING / STACK | | |
|  S  CONFERENCE  ROOM |  4  300 | |
|  AV  EQUIPMENT / PERIOD |  2  150  300 | |
|  ICAAL / VIDEO  STORAGE | |  400 |
|  OFFICE  WORKROOM | |  120  300 |
|  MULTI-MEDIA  LAB |  1  550  550 | |












































St. Vrain Valley School District

| | | | | | |
|--|---|---|--|--|--|
|  <p>STAFF TOILET</p> |  <p>2</p> |  <p>50</p> |  <p>100</p> | | |
|  <p>SUBTOTAL</p> | | |  <p>6070</p> |  <p>0</p> |  <p>0</p> |
| TECHNOLOGY | | | | | |
|  <p>COMPUTER LAB</p> |  <p>2</p> |  <p>120</p> |  <p>2400</p> | | |
|  <p>TECH OFFICE / STORAGE</p> |  <p>1</p> |  <p>250</p> |  <p>250</p> | | |
|  <p>SUBTOTAL</p> | | |  <p>2650</p> |  <p>0</p> |  <p>0</p> |
| FOOD SERVICE | | | | | |
|  <p>CAFETERIUM</p> | | |  <p>5100</p> | | |
|  <p>340 STUDENTS</p> | | | | | |
|  <p>X 15</p> | | | | | |
|  <p>SF / STUDENT</p> | | | | | |
|  <p>SERVERY</p> | | |  <p>300</p> | | |
|  <p>KITCHEN</p> | | |  <p>2000</p> | | |
|  <p>STAGE / ORCHEST</p> | | |  <p>1200</p> | |  <p>-</p> |

St. Vrain Valley School District

| | | | | |
|---|--|--|---|--|
|  <p>RA ROOM</p> | | |  <p>T</p> |  <p>2</p> |
|  <p>STAGE</p> |  <p>STORAGE</p> | |  <p>200</p> | |
|  <p>CHAIR</p> |  <p>STORAGE</p> | |  <p>250</p> | |
|  <p>STUDENT</p> |  <p>STORE</p> | |  <p>200</p> | |
|  <p>STAGE</p> | | | | |
|  <p>CONTROLS</p> | | |  <p>80</p> | |
| |  <p>SUBTOTAL</p> | |  <p>9</p> |  <p>330</p> |
|  <p>ADMINISTRATION</p> | | |  <p>S</p> |  <p>T</p> |
|  <p>PRINCIPALS</p> | | | | |
|  <p>OFFICE</p> | | |  <p>200</p> | |
|  <p>ASSISTANT</p> | | | | |
|  <p>PRINCIPAL</p> |  <p>1</p> |  <p>150</p> |  <p>150</p> | |
|  <p>MULTIPURPOSE</p> | | | | |
|  <p>OFFICE</p> | | |  <p>150</p> | |
|  <p>RECEPTION</p> | | | | |
|  <p>AREA</p> | | |  <p>350</p> | |

St. Vrain Valley School District

| | | | |
|---|--|--|---|
|  CONFERENCE  ROOM |  1 |  5 0 0 |  5 0 0 |
|  WORK ROOM |  2 |  5 0 |  3 0 0  1 0 0 |
|  STAFF TOILET | | | |
|  FINANCIAL  OFFICE | | |  1 5 0 |
|  ATTENDANCE  OFFICE | | |  1 8 0 |
|  HEALTH CENTER | | | |
|  W / TOILET | | |  6 0 0 |
|  IN SCHOOL  SUSPENSION | | | |
|  CLASSROOMS |  3 |  1 2 0 |  3 6 0 |
|  SECURITY  OFFICE |  1 |  1 5 0 |  1 5 0 |
|  STORAG E |  1 |  1 5 0 |  1 5 0 |
|  SUBTOTAL | | |  3  3 4 0  S -  F -  0  T  S |

| COUNSELING SERVICES | | | |
|----------------------|---|-------------|-------------|
| COUNSELING OFFICES | 2 | 200 | 400 |
| MULTI-PURPOSE OFFICE | 1 | 120 | 120 |
| CONFERENCE ROOM | 1 | 300 | 300 |
| STAFF TOILET | 1 | 50 | 50 |
| RECEPTION / WAITING | | | 250 |
| RECORDS | 1 | 250 | 250 |
| SUBTOTAL | | 1370 | 1370 |
| BUILDING SERVICES | | | |
| TOILETS | 3 | 300 | 900 |



JANITOR



CLOSET S



COMMUNICATION



MDF CLOSET



IDF ROOMS



CUSTODIAL



OFFICE



CUSTODIAL



MEETING / BREAK



ROOM



CUSTODIAL



TOILET ROOM



RECEIVING / SUP



PLY AREA



OUTSIDE



AGENCY



STORAGE



EXTERIOR

6

5 0

3 0 0

1

1 5 0

1 5 0

3

8 0

2 4 0

1

1 5 0

1 5 0

1

2 0 0

2 0 0

1

5 0

5 0

1

3 0 0

3 0 0

1

3 6 0

3 6 0

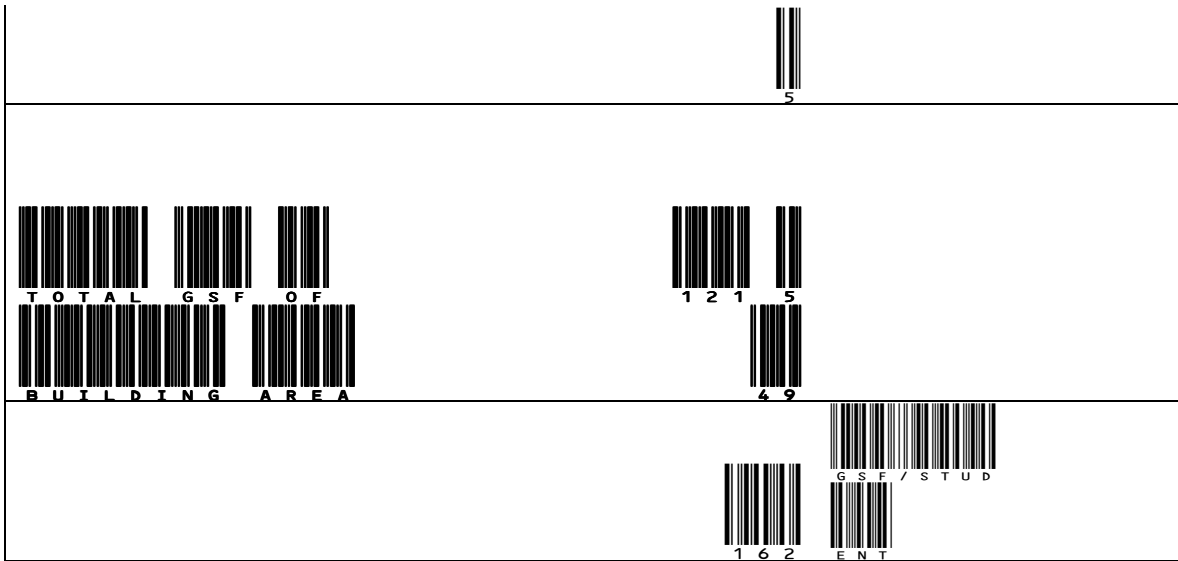
1

3 0 0

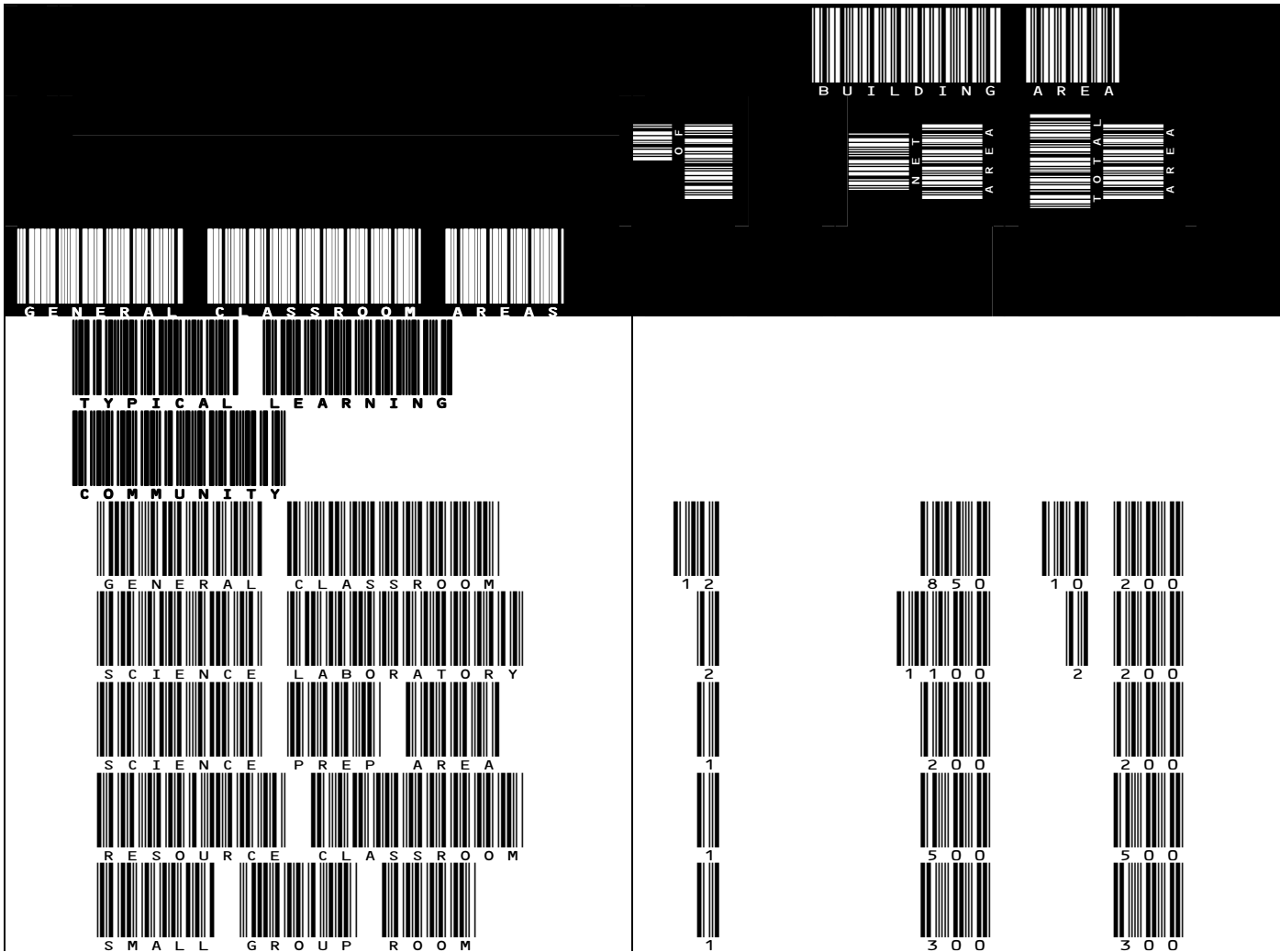
3 0 0

St. Vrain Valley School District

| | | |
|---|--|------------|
| <p>STORAGE</p> <p>MECHANICAL</p> <p>ROOM</p> <p>ELECTRICAL</p> <p>ROOM</p> | <p>1 0 0</p> <p>1 0 0 0</p> <p>1 2 0 0</p> <p>2 0 0</p> | |
| <p>SUBTOTAL</p> | <p>4 1 5 0 F.</p> | <p>0 s</p> |
| <p>NET BUILDING</p> <p>AREA</p> <p>CIRCULATION AREA</p> <p>1 8 % OF NET</p> <p>AREA</p> | <p>9 2 8 0</p> <p>2 6 s</p> <p>8</p> <p>1 6 7 0</p> <p>4</p> | |
| <p>SUBTOTAL</p> <p>CONSTRUCTION AREA</p> <p>1 1 % OF SUBTOTAL</p> | <p>1 0 9 5</p> <p>0 4</p> <p>1 2 0 4</p> | |
































Building Program Summary – 975 Student Middle School:





St. Vrain Valley School District

| | | | |
|--|---|--|--|
|  B O O K S T O R A G E |  1 |  1 5 0 |  1 5 0 |
|  G E N E R A L S T O R A G E |  1 |  1 2 0 |  1 2 0 |
|  T E A C H E R W O R K A R E A |  1 |  5 0 0 |  5 0 0 |
|  S T A F F T O I L E T |  2 |  5 0 |  1 0 0 |
|  T O T A L | | |  1 4 |
|  P E R | | |  1 7 0 |
|  C O M M U N I T Y | | |  S - F - |
|  S U B T O T A L F O R A L L | | | |
|  C O M M U N I T I E S |  3 |  1 4 |  1 7 0 |

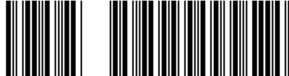














M U S I C

| | | | |
|--|---|--|--|
|  I N S T R U M E N T A L M U S I C |  1 |  1 6 0 0 |  1 6 0 0 |
|  V O C A L M U S I C |  1 |  1 4 0 0 |  1 4 0 0 |
|  O R C H E S T R A C L A S S R O O M | | | |
|  R E S T A G E |  0 |  0 |  0 |
|  I N S T R U M E N T S T O R A G E |  1 |  3 0 0 |  3 0 0 |
|  P R A C T I C E |  4 |  7 5 |  3 0 0 |
|  M U S I C O F F I C E / L I B R A R Y |  1 |  2 0 0 |  2 0 0 |
|  S U B T O T A L | | |  3 |
| | | |  8 0 0 |
| | | |  S - F - |




















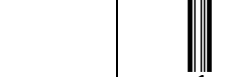


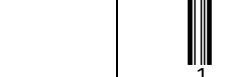


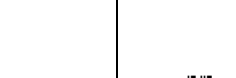
















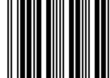







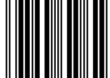








A R T

| | | | |
|--|---|--|--|
|  A R T |  1 |  1 0 0 0 |  1 0 0 0 |
|  C L A S S R O O M | | | |













































St. Vrain Valley School District

| | | | |
|---|---|------|------|
|  ART STORAGE | 1 | 200 | 200 |
|  TEACHER WORK AREA | 1 | 160 | 160 |
|  KILN / MUD ROOM | 1 | 400 | 400 |
|  SUBTOTAL | | | 760 |
| WORLD LANGUAGES | | | |
|  MULTI-PURPOSE CLASSROOM | 1 | 1000 | 1000 |
|  STORAGE | 1 | 150 | 150 |
|  TEACHER WORK AREA | 1 | 150 | 150 |
|  SUBTOTAL | | | 300 |
| PERSONAL RESOURCE DEVELOPMENT | | | |
|  CLASSROOM | 1 | 1200 | 1200 |
|  TEACHER WORK AREA | 1 | 150 | 150 |
|  PANTRY | 1 | 150 | 150 |
|  SUBTOTAL | | | 500 |
| APPLIED TECHNOLOGY | | | |
|  APPLIED TECHNOLOGY LAB | 1 | 1600 | 1600 |
|  FABRICATION ROOM | 1 | 500 | 500 |

St. Vrain Valley School District

| | | | | |
|---|--|--|--|--|
|  M A T E R I A L S T O R A G E  S T A F F O F F I C E  S U B T O T A L |  1  1 |  1 5 0  1 2 0 |  1 5 0  1 2 0 |  2  3 7 0  S . F . |
| P H Y S I C A L E D U C A T I O N | | | | |
|  G Y M N A S I U M  S E A T I N G F O R  7 0 0  A U X I L I A R Y G Y M  W E I G H T / F I T N E S S  C R  P . E . T E A C H E R  O F F I C E / L O C K E R S  C O A C H E S O F F I C E / L O C K E R S  B O Y S L O C K E R  R O O M / S T O R A G E  G I R L S L O C K E R  R O O M / S T O R A G E  A T H L E T I C S T O R A G E  P . E . S T O R A G E  E X T E R I O R S T O R A G E |  1  1  1  1  2  1  1  1  1  1  1  1  1  1 |  7 6 0 0  5 8 0 0  1 6 0 0  2 5 0  3 7 0  1 5 0 0  1 5 0 0  6 0 0  6 0 0  5 0 0 |  7 6 0 0  5 8 0 0  1 6 0 0  5 0 0  3 7 0  1 5 0 0  1 5 0 0  6 0 0  6 0 0  5 0 0 | |

St. Vrain Valley School District

| | | |
|--|--|--|
|  B U I L D I N G  S U B T O T A L | |  2 0  5 7 0  S . F . |
| SPECIAL EDUCATION | | |
|  S E V E R E N E E D S  C L A S S R O O M  M O D E R A T E N E E D S  C L A S S R O O M  S E C H A N G I N G R M . / T O I L E T  S E T E A C H E R W O R K R O O M  S T O R A G E  S E S P E C I A L I S T / T H E R A P Y  R O O M  S U B T O T A L |  1  1 1 0 0  1 1 0 0  1  5 8 0  5 8 0  1  1 5 0  1 5 0  1  2 0 0  2 0 0  1  2 5 0  2 5 0  S U B T O T A L |  2  2 8 0  S . F . |
| LIBRARY MEDIA CENTER | | |
|  I N S T R U C T I O N A L  S E A T I N G / S T A C K S  C O N F E R E N C E R O O M  A V  E Q U I P T / P E R I O D I C A L / V I D E O |  2  1 5 0  4 3 0 0  3 0 0  4 0 0 | |

St. Vrain Valley School District

| | | |
|--|--|--|
| <p>STORAGE</p> <p>OFFICE</p> <p>WORKROOM</p> <p>MULTI-MEDIA LAB</p> <p>STAFF TOILET</p> <p>SUBTOTAL</p> | <p>1</p> <p>2</p> <p>550</p> <p>50</p> | <p>120</p> <p>300</p> <p>550</p> <p>100</p> <p>6070 S.F.</p> |
| TECHNOLOGY | | |
| <p>COMPUTER LAB</p> <p>TECH OFFICE / STORAGE</p> <p>SUBTOTAL</p> | <p>2</p> <p>1</p> <p>1200</p> <p>250</p> | <p>2400</p> <p>250</p> <p>2650 S.F.</p> |
| FOOD SERVICE | | |
| <p>CAFETERIUM</p> <p>STUDENTS X</p> <p>SF / STUDENT</p> <p>SERVERY</p> <p>KITCHEN</p> <p>STAGE / ORCHESTRA ROOM</p> <p>STAGE STORAGE</p> | <p>340</p> <p>15</p> <p>300</p> <p>000</p> <p>200</p> <p>200</p> | <p>5100</p> <p>300</p> <p>000</p> <p>200</p> <p>200</p> |








































































St. Vrain Valley School District

| | | | |
|------------------------|---|-----|-------------|
| CHAIR STORAGE | | | 250 |
| STUDENT STORE | | | 200 |
| STAGE CONTROLS | | | 80 |
| SUBTOTAL | | | 9330 |
| ADMINISTRATION | | | |
| PRINCIPAL'S OFFICE | | | 200 |
| ASST. PRINCIPAL | 1 | 150 | 150 |
| MULTI-PURPOSE OFFICE | | | 150 |
| RECEPTION AREA | | | 350 |
| CONFERENCE ROOM | 1 | 500 | 500 |
| WORKROOM | | | 300 |
| STAFF TOILET | 2 | 50 | 100 |
| FINANCIAL OFFICE | | | 150 |
| ATTENDANCE OFFICE | | | 180 |
| HEALTH CENTER W/TOILET | | | 600 |
| IN SCHOOL SUSPENSION | | | |
| CLASSROOMS | 3 | 120 | 360 |
| SECURITY OFFICE | 1 | 150 | 150 |

St. Vrain Valley School District

| | | | |
|----------------------------|---|-----|------|
| STORAGE | 1 | 150 | 150 |
| SUBTOTAL | | | 3340 |
| COUNSELING SERVICES | | | |
| COUNSELING OFFICES | 2 | 200 | 400 |
| MULTI-PURPOSE OFFICE | 1 | 120 | 120 |
| CONFERENCE ROOM | 1 | 300 | 300 |
| STAFF TOILET | 1 | 50 | 50 |
| RECEPTION / WAITING | | | 250 |
| RECORDS | 1 | 250 | 250 |
| SUBTOTAL | | | 1370 |
| BUILDING SERVICES | | | |
| TOILETS | 3 | 300 | 900 |
| JANITOR CLOSETS | 6 | 50 | 300 |
| COMMUNICATION MDF | | | |
| CLOSET | 1 | 150 | 150 |
| IDF ROOMS | 3 | 80 | 240 |
| CUSTODIAL OFFICE | 1 | 150 | 150 |

St. Vrain Valley School District

| | | |
|---|--|---|
| <p>   C U S T O D I A L M E E T I N G / B R E A K  R O O M    C U S T O D I A L T O I L E T R O O M  R E C E I V I N G / S U P P L Y A R E A    O U T S I D E A G E N C Y S T O R A G E  E X T E R I O R S T O R A G E   M E C H A N I C A L R O O M   E L E C T R I C A L R O O M </p> | <p>  1  1  1  1  1  1  1  1 </p> | <p>  2 0 0  5 0  3 0 0  3 6 0  3 0 0  1 0 0 0  2 0 0  2 0 0  5 0  3 0 0  3 6 0  3 0 0  1 0 0 0  2 0 0 </p> |
| <p>  S U B T O T A L </p> | | <p>  4  1 5 0  s . F . </p> |
| <p>    N E T B U I L D I N G A R E A      C I R C U L A T I O N A R E A 1 8 % O F N E T  A R E A </p> | <p>  1 0 3  0 0 0  1 8  5 4 0 </p> | |
| <p>  S U B T O T A L     C O N S T R U C T I O N A R E A 1 1 % O F  S U B T O T A L </p> | <p>  1 2 1  5 4 0  1 3  3 6 9 </p> | |
| <p>     T O T A L G S F O F B U I L D I N G  A R E A </p> | <p>  1 3 4  9 0 9 </p> | |

































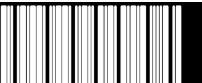



































Building Program Summary – 1,200 Student Middle School:

| GENERAL CLASSROOM AREAS | | BUILDING AREA | | TOTAL | |
|----------------------------|----|---------------|-----|-------|-----|
| TYPICAL LEARNING COMMUNITY | | | | | |
| GENERAL CLASSROOM | 12 | 850 | 10 | 200 | |
| SCIENCE LABORATORY | 2 | 1100 | 2 | 200 | |
| SCIENCE PREP AREA | 1 | 200 | | 200 | |
| RESOURCE CLASSROOM | 1 | 500 | | 500 | |
| SMALL GROUP ROOM | 1 | 300 | | 300 | |
| BOOK STORAGE | 1 | 150 | | 150 | |
| GENERAL STORAGE | 1 | 120 | | 120 | |
| TEACHER WORK AREA | 1 | 500 | | 500 | |
| STAFF TOILET | 2 | 50 | | 100 | |
| TOTAL PER COMMUNITY | | | | | |
| SUBTOTAL FOR ALL | 3 | 14 | 170 | 42 | 510 |

| COMMUNITIES | | | | |
|-------------------------|--|---|---------|----------------|
| MUSIC | | | | |
| INSTRUMENTAL MUSIC | | 1 | 1 6 0 0 | 1 6 0 0 |
| VOCAL MUSIC | | 1 | 1 4 0 0 | 1 4 0 0 |
| ORCHESTRA CLASSROOM | | | | |
| RE STAGE | | 0 | 0 | 0 |
| INSTRUMENT STORAGE | | 1 | 3 0 0 | 3 0 0 |
| PRACTICE | | 4 | 7 5 | 3 0 0 |
| MUSIC OFFICE / LIBRARY | | 1 | 2 0 0 | 2 0 0 |
| SUBTOTAL | | | | 3 8 0 0 |
| ART | | | | |
| ART CLASSROOM | | 1 | 1 0 0 0 | 1 0 0 0 |
| ART STORAGE | | 1 | 2 0 0 | 2 0 0 |
| TEACHER WORK AREA | | 1 | 1 6 0 | 1 6 0 |
| KILN / MUD ROOM | | 1 | 4 0 0 | 4 0 0 |
| SUBTOTAL | | | | 1 7 6 0 |
| WORLD LANGUAGES | | | | |
| MULTI-PURPOSE CLASSROOM | | 1 | 1 0 0 0 | 1 0 0 0 |


















































St. Vrain Valley School District

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|  S T O R A G E  T E A C H E R  W O R K  A R E A  S U B T O T A L |  1  1  1 5 0  1 5 0  1 5 0  1 5 0  1  3 0 0  S . F . |
|  P E R S O N A L R E S O U R C E  D E V E L O P M E N T | |
|  C L A S S R O O M  T E A C H E R  W O R K  A R E A  P A N T R Y  S U B T O T A L |  1  1  1 2 0 0  1 5 0  1 2 0 0  1 5 0  1 5 0  1  5 0 0  S . F . |
|  A P P L I E D T E C H N O L O G Y | |
|  A P P L I E D  T E C H N O L O G Y  L A B  F A B R I C A T I O N  R O O M  M A T E R I A L  S T O R A G E  S T A F F  O F F I C E  S U B T O T A L |  1  1  1  1  1 6 0 0  5 0 0  1 5 0  1 2 0  1 6 0 0  5 0 0  1 5 0  1 2 0  2  3 7 0  S . F . |
|  P H Y S I C A L E D U C A T I O N | |
|  G Y M N A S I U M  7 0 0  S E A T I N G  F O R |  1  7 6 0 0  7 6 0 0 |

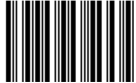



















































St. Vrain Valley School District

| | | | |
|--------------------------|---|---------|------------------|
| AUXILIARY GYM | 1 | 5 8 0 0 | 5 8 0 0 |
| WEIGHT / FITNESS CR | 1 | 1 6 0 0 | 1 6 0 0 |
| P.E. TEACHER | | | |
| OFFICE / LOCKERS | 2 | 2 5 0 | 5 0 0 |
| COACHES OFFICE / LOCKERS | 1 | 3 7 0 | 3 7 0 |
| BOYS LOCKER | | | |
| ROOM / STORAGE | 1 | 1 5 0 0 | 1 5 0 0 |
| GIRLS LOCKER | | | |
| ROOM / STORAGE | 1 | 1 5 0 0 | 1 5 0 0 |
| ATHLETIC STORAGE | 1 | 6 0 0 | 6 0 0 |
| P.E. STORAGE | 1 | 6 0 0 | 6 0 0 |
| EXTERIOR STORAGE | | | |
| BUILDING | 1 | 5 0 0 | 5 0 0 |
| SUBTOTAL | | | 2 0 5 7 0 |
| SPECIAL EDUCATION | | | |
| SEVERE NEEDS CLASSROOM | 1 | 1 0 0 | 1 0 0 |
| MODERATE NEEDS | | | |
| CLASSROOM | 1 | 5 8 0 | 5 8 0 |















































St. Vrain Valley School District

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|--|---|--|--|
|    S E C H A N G I N G R M . / T O I L E T |  1 |  1 5 0 |  1 5 0 |
|    S E T E A C H E R W O R K R O O M | | | |
|  S T O R A G E |  1 |  2 0 0 |  2 0 0 |
|   S E S P E C I A L I S T / T H E R A P Y | | | |
|  R O O M |  1 |  2 5 0 |  2 5 0 |
|  S U B T O T A L | | |  2 |
| LIBRARY MEDIA CENTER | | | |
|  I N S T R U C T I O N A L | | | |
|  S E A T I N G / S T A C K S | | |  4 |
|   C O N F E R E N C E R O O M |  2 |  1 5 0 |  3 0 0 |
|  A V | | | |
|  E Q U I P T / P E R I O D I C A L / V I D E O | | | |
|  S T O R A G E | | |  4 0 0 |
|  O F F I C E | | |  1 2 0 |
|  W O R K R O O M | | |  3 0 0 |
|   M U L T I - M E D I A L A B |  1 |  5 5 0 |  5 5 0 |
|   S T A F F T O I L E T |  2 |  5 0 |  1 0 0 |
|  S U B T O T A L | | |  6 |





































St. Vrain Valley School District

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|---|---|--|--|
|  A S S T . P R I N C I P A L |  1 |  1 5 0 |  1 5 0 |
|  M U L T I - P U R P O S E O F F I C E | | |  1 5 0 |
|  R E C E P T I O N A R E A | | |  3 5 0 |
|  C O N F E R E N C E R O O M |  1 |  5 0 0 |  5 0 0 |
|  W O R K R O O M | | |  3 0 0 |
|  S T A F F T O I L E T |  2 |  5 0 |  1 0 0 |
|  F I N A N C I A L O F F I C E | | |  1 5 0 |
|  A T T E N D A N C E O F F I C E | | |  1 8 0 |
|  H E A L T H C E N T E R W / T O I L E T | | |  6 0 0 |
|  I N S C H O O L S U S P E N S I O N | | | |
|  C L A S S R O O M S |  3 |  1 2 0 |  3 6 0 |
|  S E C U R I T Y O F F I C E |  1 |  1 5 0 |  1 5 0 |
|  S T O R A G E |  1 |  1 5 0 |  1 5 0 |
|  S U B T O T A L | | |  3 |
|  C O U N S E L I N G | | |  3 4 0 |
|  S T U D E N T | | |  S E R V I C E S |
|  S E R V I C E S | | | |
|  C O U N S E L I N G O F F I C E S |  2 |  2 0 0 |  4 0 0 |
|  M U L T I - P U R P O S E O F F I C E |  1 |  1 2 0 |  1 2 0 |

St. Vrain Valley School District

| | | | |
|--|---|--|--|
|  C O N F E R E N C E R O O M |  1 |  3 0 0 |  3 0 0 |
|  S T A F F T O I L E T |  1 |  5 0 |  5 0 |
|  R E C E P T I O N / W A I T I N G | | |  2 5 0 |
|  R E C O R D S |  1 |  2 5 0 |  2 5 0 |
|  S U B T O T A L | | |  1 |
|  B U I L D I N G S E R V I C E S | | |  3 7 0 |
|  T O I L E T S |  3 |  3 0 0 |  9 0 0 |
|  J A N I T O R C L O S E T S |  6 |  5 0 |  3 0 0 |
|  C O M M U N I C A T I O N M D F | | | |
|  C L O S E T |  1 |  1 5 0 |  1 5 0 |
|  I D F R O O M S |  3 |  8 0 |  2 4 0 |
|  C U S T O D I A L O F F I C E |  1 |  1 5 0 |  1 5 0 |
|  C U S T O D I A L M E E T I N G / B R E A K | | | |
|  R O O M |  1 |  2 0 0 |  2 0 0 |
|  C U S T O D I A L T O I L E T R O O M |  1 |  5 0 |  5 0 |
|  R E C E I V I N G / S U P P L Y A R E A |  1 |  3 0 0 |  3 0 0 |
|  O U T S I D E A G E N C Y S T O R A G E |  1 |  3 6 0 |  3 6 0 |
|  E X T E R I O R S T O R A G E |  1 |  3 0 0 |  3 0 0 |

St. Vrain Valley School District

| | | |
|--|--|--|
|  M E C H A N I C A L R O O M  E L E C T R I C A L R O O M |  1  1 |  1 0 0 0  1 0 0 0  2 0 0  2 0 0 |
|  S U B T O T A L | |  4  1 5 0  s . f . |
|  N E T B U I L D I N G A R E A  C I R C U L A T I O N A R E A  A R E A |  1 8 %  O F  N E T |  1 0 3  9 0 0  1 8  7 0 2 |
|  C O N S T R U C T I O N A R E A  S U B T O T A L |  S U B T O T A L  1 1 %  O F |  1 2 2  6 0 2  1 3  4 8 6 |
|  T O T A L G S F O F B U I L D I N G A R E A | |  1 3 6  0 8 8  1 1 3  G S F |

Room Finish Matrix:

| ROOM FINISH MATRIX | | | | | | | |
|--------------------------------|--------|------|-------|--------|------------|--------|---------------------------------|
| Room Name | FLOOR | | WALLS | | CEILING | | Remarks |
| | Finish | Base | Mat. | Finish | Mat. | Finish | |
| ACADEMIC SUITE 1-4 | | | | | | | |
| General Classroom | VCT | RB | GB | P | SAT | | |
| Multi-Purpose Classroom | VCT | RB | GB | P | SAT | | |
| Flex Learning Area | VCT | RB | GB | P | SAT | | |
| Science/Flex Classroom | VCT | RB | GB | P | SAT | | |
| Science Classroom | VCT | RB | GB | P | SAT | | |
| Prep Area | VCT | RB | GB | P | SAT | | |
| Resource Classroom | VCT | RB | GB | P | SAT | | |
| Small Group Room | VCT | RB | GB | P | SAT | | |
| Book Storage | VCT | RB | GB | P | SAT | | |
| Teacher Work Area | VCT | RB | GB | P | SAT | | |
| Staff Toilet | CT | CT | GB/CT | P | GB | | CERAMIC TILE ON WATER WALL ONLY |
| Teacher Conference | VCT | RB | GB | P | GB | | |
| MUSIC | | | | | | | |
| Instrumental Music | VCT | RB | GB | P | SAT | | |
| Music Classroom | VCT | RB | GB | P | SAT | | |
| Equipment Storage | VCT | RB | GB | P | SAT | | |
| Practice | VCT | RB | GB | P | SAT | | |
| Teacher Work Area | VCT | RB | GB | P | SAT | | |
| ART | | | | | | | |
| Art Classroom | VCT | RB | GB | P | | | PAINT EXPOSED STRUCT |
| Art Storage | VCT | RB | GB | P | | | |
| Kiln Room | VCT | RB | CMU | P | | | |
| Teacher Work Area | VCT | RB | CMU | P | | | |
| CONSUMER STUDIES FAMILY | | | | | | | |
| Multi-Purpose Classroom | VCT | RB | GB | P | SAT | | |
| Pantry | VCT | RB | GB | P | SAT | | |
| Teacher Work Area | VCT | RB | GB | P | SAT | | |
| APPLIED TECHNOLOGY | | | | | | | |
| Technology Lab | VCT | RB | GB | P | SAT | | |
| Fabrication Rm. | SC | RB | GB | P | | | PAINT EXPOSED STRUCT |
| Material Storage | SC | RB | GB | P | | | PAINT EXPOSED STRUCT |
| PHYSICAL EDUCATION | | | | | | | |
| Gymnasium | WD | RB | CMU | P | | | PAINT EXPOSED STRUCT |
| Aux. Gym | WD | RB | CMU | P | | | PAINT EXPOSED STRUCT |
| Fitness Room | CPT | RB | GB | P | SAT | | |
| Coach Office/Locker | SQ | SQ | CMU | P | SAT/G B | P | |
| Lockers/ Toilet | SQ | SQ | CMU | P | GB | P | |
| PE Storage | SC | RB | CMU | P | | | |
| Athletic Storage | SC | RB | CMU | P | | | |
| Exterior Storage Bldg. | SC | RB | CMU | P | | | |
| SPECIAL EDUCATION | | | | | | | |

St. Vrain Valley School District

| | | | | | | | |
|--|-----|----|------------|---|-----|---|--------------------------------------|
| REACH Classroom | CPT | RB | GB | P | SAT | | |
| SE Storage | VCT | RB | GB | P | SAT | | |
| Changing Rm./Toilet | CT | CT | GB | P | GB | P | |
| SE Staff Office | CPT | RB | GB | P | SAT | | |
| Itinerant Office | CPT | RB | GB | P | SAT | | |
| SE Conference Rm. | CPT | CT | GB | P | SAT | | |
| LIBRARY MEDIA CENTER | | | | | | | |
| Instructional Seating/Stacks | CPT | RB | GB | P | SAT | | |
| Conference Rooms | CPT | RB | GB | P | SAT | | |
| Periodical Storage | VCT | RB | GB | P | SAT | | |
| AV Storage | VCT | RB | GB | P | SAT | | |
| Media Specialist Office | VCT | RB | GB | P | SAT | | |
| LMC Workroom | VCT | RB | GB | P | SAT | | |
| Head-end Rm. | VCT | RB | GB | P | SAT | | |
| Multi-media Lab | VCT | RB | GB | P | SAT | | |
| Multipurpose Rooms | VCT | RB | GB | P | SAT | | |
| Staffs Resource Room | VCT | RB | GB | P | SAT | | |
| TECHNOLOGY | | | | | | | |
| Computer Lab | VCT | RB | GB | P | SAT | | |
| Tech. Office | VCT | RB | GB | P | SAT | | |
| FOOD SERVICE | | | | | | | |
| Cafetorium | VCT | RB | CMU/ GB | P | SAT | | GYP BOARD SOFFITS |
| Servery | VCT | RB | CMU/ GB | P | SAT | | GYP BOARD SOFFITS |
| Kitchen | QT | QT | GB | P | SAT | | PROVIDE WALL PROTECTION 6'-0" AFF |
| Stage | VCT | RB | CMU | P | - | | PAINT EXPOSED STRUCT |
| Stage Storage | VCT | RB | GB | P | SAT | | |
| Chair Storage | VCT | RB | GB | P | SAT | | |
| Student Store | VCT | RB | GB | P | SAT | | |
| ADMINISTRATION | | | | | | | |
| Principal's Office | CPT | RB | GB | P | SAT | | |
| Asst. Principal Office | CPT | RB | GB | P | SAT | | |
| Dean's Office | CPT | RB | GB | P | SAT | | |
| Reception Area | CPT | RB | GB | P | SAT | | |
| Conference Rm. | CPT | CT | GB | P | GB | | |
| Bookkeeper | CPT | RB | GB | P | SAT | | |
| Attendance | CPT | RB | GB | P | SAT | | |
| Health Center | VCT | RB | GB | P | SAT | | |
| ISD Classroom | VCT | RB | GB | P | SAT | | |
| STUDENT SERVICES | | | | | | | |
| Counselor Office | CPT | RB | GB | P | SAT | | |
| Multi-purpose Office | CPT | RB | GB | P | SAT | | |
| Conference Room | CPT | RB | GB | P | SAT | | |
| Staff Toilet | CPT | RB | GB | P | SAT | | |
| Reception/Waiting | CPT | RB | GB | P | SAT | | |
| Records | CPT | RB | GB | P | SAT | | |
| BUILDING SERVICES | | | | | | | |
| Student Toilets | CT | CT | CT | | CT | P | |
| Janitor Closets | SC | RB | GB | P | | | |
| Intermediate Distribution Rooms (IDF) | SC | RB | GB | P | | | |
| Receiving Area | SC | RB | GB | P | | | |
| Custodial Area/Office | VCT | RB | GB | P | | | |

St. Vrain Valley School District

| | | | | | | | |
|--------------------------|-----|----|------------|---|------------|--|------------------------------------|
| Exterior Storage Bldg. | SC | RB | GB | P | | | |
| Fan Room | SC | RB | GB | P | | | |
| Mechanical Room | SC | RB | GB | P | | | |
| Electrical Room | SC | RB | GB | P | | | |
| CORRIDORS | | | | | | | |
| Primary Corridors | VCT | RB | CMU/ GB | P | SAT | | |
| Secondary Corridors | VCT | RB | GB | P | SAT/G B | | |
| ABBREVIATIONS KEY | | | | | | | |
| CMU - CONC MASONRY UNIT | | | | | | | SAT - SUSPENDED ACOUSTICAL TILE |
| CT - CERAMIC TILE | | | | | | | QT - QUARRY TILE |
| CPT - CARPET | | | | | | | SC - SEALED CONC. |
| GB - GYP BOARD | | | | | | | VCT - VINYL TILE |
| P - PAINT | | | | | | | VWC - VINYL WALL COVERING |
| RB - RUBBER BASE | | | | | | | WD - WOOD |
| | | | | | | | |

Acoustical Guidelines:

| ACOUSTICAL GUIDELINES | | | |
|----------------------------------|------------------|---|--|
| ROOM to ROOM | STC RANGE | NC Rating for first rm. referenced | dBA Rating for first rm. referenced |
| Classroom / Classroom | 40-45 | 30-35 | 44 |
| Classroom / Corridor | 40-45 | | |
| Classroom / Toilet | 50-55 | | |
| | | | |
| Cafetorium / Stage | 45-50 | 20-25 | 35 |
| Cafetorium / Corridor | 45-50 | | |
| Cafetorium / Toilet | 55-60 | | |
| | | | |
| Stage / Corridor | 45-50 | 20-25 | 35 |
| Stage / Classroom | 40-45 | | |
| | | | |
| Gymnasium / Aux. Gym | 45-50 | 40-45 | 53 |
| Gymnasium / Corridor | 45-50 | | |
| | | | |
| Coaches Office / Locker Rm. | 45-50 | 30-35 | 44 |
| Coaches Office / Corridor | 40-45 | | |
| Coaches Office / Gymnasium | 45-50 | | |
| | | | |
| Office / Corridor | 40-45 | 30-35 | 44 |
| Office / Workroom | 45-50 | | |
| Office / Office | 40-45 | | |
| Office / Toilet | 50-55 | | |
| | | | |
| Music CR. / Practice Rm. | 45-50 | 25-30 | 39 |
| Music CR. / Music CR. | 45-50 | | |
| Music CR. / Teacher Work Area | 45-50 | | |

Lighting Guidelines:

| LIGHTING GUIDELINES | | | |
|--------------------------------|------------------------------|------------|--|
| Room Name | Range of Illuminances | | Fixture Type |
| | Footcandles | Lux | |
| ACADEMIC SUITE 1- 4 | | | |
| General Classroom | 30-50 | 200-300 | Parabolic Fluorescent or Indirect |
| Multi-Purpose Classroom | 30-50 | 200-300 | Parabolic Fluorescent or Indirect |
| Flex Learning Area | 30-50 | 200-300 | Parabolic Fluorescent or Indirect |
| Science/Flex Classroom | 50-75 | 500-750 | Parabolic Fluorescent |
| Science Classroom | 50-75 | 500-750 | Parabolic Fluorescent |
| Prep Area | 50-75 | 500-750 | Parabolic Fluorescent |
| Resource Classroom | 30-50 | 200-300 | Parabolic Fluorescent |
| Small Group Room | 30-50 | 200-300 | Parabolic Fluorescent |
| Book Storage | 20-30 | 200-300 | Parabolic Fluorescent |
| Teacher Work Area | 30-50 | 200-300 | Parabolic Fluorescent |
| Staff Toilet | 10-15 | 100-150 | Fluorescent |
| Teacher Conference | 20-30 | 200-300 | Parabolic Fluorescent |
| MUSIC | | | |
| Instrumental Music | 30-50 | 200-300 | Parabolic Fluorescent |
| Music Classroom | 30-50 | 200-300 | Parabolic Fluorescent |
| Equipment Storage | 10-15 | 100-150 | Lenses Fluorescent |
| Practice | 30-50 | 200-300 | Lenses Fluorescent |
| Teacher Work Area | 30-50 | 200-300 | Parabolic Fluorescent |
| ART | | | |
| Multi-Purpose Classroom | 75-100 | 1000-1500 | Indirect Fluorescent w/ track lighting |
| Art Storage | 10-15 | 100-150 | Industrial Fluorescent |
| Teacher Work Area | 30-50 | 200-300 | Parabolic Fluorescent |
| Kiln Room | 10-15 | 100-150 | Industrial Fluorescent |
| CONSUMER FAMILY STUDIES | | | |
| Multi-purpose Classroom | 30-50 | 200-300 | Lenses Fluorescent |
| Pantry | 20-30 | 200-300 | Lenses Fluorescent |
| Teacher Work Area | 30-50 | 200-300 | Parabolic Fluorescent |
| APPLIED TECHNOLOGY LAB | | | |
| Technology Lab | 30-50 | 200-300 | Indirect Fluorescent |
| Fabrication Room | 50-75 | 200-300 | Industrial Fluorescent |
| Material Storage | 10-15 | 100-150 | Industrial Fluorescent |
| Teacher Work Area | 30-50 | 200-300 | Parabolic Fluorescent |
| PHYSICAL EDUCATION | | | |
| Gymnasium | 50-75 | 300 | HID |
| Aux. Gym | 50-75 | 300 | HID |
| Fitness Room | 20-30 | 200-300 | Lenses Fluorescent |
| Coach Office/Locker | 30-50 | 200-300 | Lenses Fluorescent |
| Lockers/Toilet | 15-30 | 100-150 | Compact Fluorescent |
| Athletic Storage | 10-15 | 100-150 | Industrial Fluorescent |
| PE Storage | 10-15 | 100-150 | Industrial Fluorescent |
| Ext. PE Storage | 10-15 | 100-150 | Industrial Fluorescent |
| SPECIAL EDUCATION | | | |
| REACH Classroom | 30-50 | 200-300 | Parabolic Fluorescent |

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| SE Storage | 10-15 | 100-150 | Lenses Fluorescent |
| SE Changing Rm./Toilet | 15-30 | 100-150 | Lenses Fluorescent |
| SE Staff Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Itinerant Office | 30-50 | 200-300 | Parabolic Fluorescent |
| SE Conference | 20-30 | 200-300 | Parabolic Fluorescent |
| LIBRARY MEDIA CENTER | | | |
| Instructional Seating/Stacks | 30-50 | 200-300 | HID/ Indirect Fluorescent |
| Conference Room | 20-30 | 200-300 | Parabolic Fluorescent |
| Periodical Storage | 15-30 | 100-150 | Parabolic Fluorescent |
| AV Storage | 20-30 | 200-300 | Fluorescent |
| Media Specialist Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Workroom | 30-50 | 200-300 | Parabolic Fluorescent |
| Head-end Room | 20-30 | 200-300 | Parabolic Fluorescent |
| Multi-Media Lab | 30-50 | 200-300 | Parabolic Fluorescent |
| Multi-purpose Room | 30-50 | 200-300 | Parabolic Fluorescent |
| Staff Resource Room | 30-50 | 200-300 | Parabolic Fluorescent |
| Staff Toilet | 10-15 | 100-150 | Fluorescent |
| TECHNOLOGY | | | |
| Computer Lab | 30-50 | 200-300 | Parabolic Fluorescent or Indirect |
| Tech. Office | 30-50 | 200-300 | Parabolic Fluorescent |
| FOOD SERVICE | | | |
| Cafetorium | 20-30 | 75-100 | HID/Fluorescent |
| Servery | 30-50 | 100-150 | Fluorescent |
| Kitchen | 50-75 | 500-750 | Fluorescent Troffer |
| Stage | 20-30 | 100-150 | Fluorescent |
| Stage Storage | 10-15 | 100-150 | Industrial Fluorescent |
| Chair Storage | 10-15 | 100-150 | Industrial Fluorescent |
| Student Store | 20-30 | 100-150 | Parabolic Fluorescent |
| ADMINISTRATION | | | |
| Principal's Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Asst. Principal Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Dean's Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Reception Area | 30-50 | 200-300 | Parabolic Fluorescent |
| Conference Room | 30-50 | 200-300 | Parabolic Fluorescent |
| Bookkeeper | 30-50 | 200-300 | Parabolic Fluorescent |
| Attendance | 30-50 | 200-300 | Parabolic Fluorescent |
| Health Center | 30-50 | 200-300 | Parabolic Fluorescent/Fluorescent Troffer |
| ISD Classroom | 30-50 | 200-300 | Parabolic Fluorescent |
| STUDENT SERVICE/COUNSELING | | | |
| Counselor Office | 20-30 | 200-300 | Parabolic Fluorescent |
| Multi-purpose Office | 30-50 | 200-300 | Parabolic Fluorescent |
| Conference Room | 20-30 | 200-300 | Parabolic Fluorescent |
| Staff Toilet | 15-30 | 100-150 | Fluorescent |
| Reception/Waiting | 20-30 | 200-300 | Parabolic Fluorescent |
| Records | 30-50 | 200-300 | Parabolic Fluorescent |
| BUILDING SERVICES | | | |
| Student Toilets | 15-30 | 100-150 | Fluorescent |
| Janitor Closets | 10-15 | 100-150 | Industrial Fluorescent |
| Intermediate Distribution Room (IDF) | 10-15 | 100-150 | Industrial Fluorescent |
| Receiving Area | 10-15 | 100-150 | Industrial Fluorescent |
| Custodial Storage/Office | 20-30 | 200-300 | Lenses Fluorescent |
| Exterior Bldg. Storage | 20 | 200 | Vapor Tight Incandescent |
| Fan Room | 10-15 | 100-150 | Industrial Fluorescent |

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|---|-------|---------|---|
| Mechanical Room | 10-15 | 100-150 | Industrial Fluorescent |
| Electrical Room | 10-15 | 100-150 | Industrial Fluorescent |
| CORRIDORS | | | |
| Primary Corridors | 15-20 | 100-150 | Parabolic Fluorescent/Fluorescent Troffer |
| Secondary Corridors | 15-20 | 100-150 | Parabolic Fluorescent/Fluorescent Troffer |
| GENERAL NOTES | | | |
| Provide dual level switching for the following areas: | | | |
| General Classroom | | | |
| Multi-purpose Classrooms | | | |
| Science Labs | | | |
| Flex Learning Areas | | | |
| Art Classrooms | | | |
| Applied Technology Lab | | | |
| REACH Classroom | | | |
| ISD Classroom | | | |
| Computer Labs (depending upon selected fixtures) | | | |