## Long Beach Unified School District

## Elementary School Educational Specifications

Final - J anuary 2008

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## ACKNOWLEDGEMENTS

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## Introduction

This Elementary School Educational Specification is a critical component of the Long Beach Unified School District Facility Master Plan. Developed as a component of that overall process, the Educational Specification is a detailed outline of essential components of each elementary school facility to be built in Long Beach as part of the Facility Master Plan. It is a City-wide statement, and will apply to all upcoming elementary school projects, but will be adjusted as appropriate to the needs of each individual school construction project.

An Educational Specification outlines essential educational concepts and detailed facility needs. It includes considerations of community values, current and future instructional strategies, impact of technology on education, and cost constraints.

Although this Educational Specification is intended to guide elementary school construction for the next several decades, it should be regarded as a living document, in need of periodic update. For each separate school construction project, there is need and opportunity to adjust this document to apply to site specific circumstances. Additionally, specifics of the educational specifications should be updated every few years to address enrollment trends, construction costs, changes in programs offered, and staffing configurations.

This has been written to cover elementary needs across the entire city. It is without reference to any specific school site, and is applicable to both new construction and renovation projects. It does contain highly articulated ideas of critical components and organizational concepts for successful elementary school facilities. Some existing school buildings and certain components of others may not be able to be reasonably modified to continue in service. Overall judgments of appropriateness have been included in the recommendations of the Facility Master Plan, but each specific project will require further detailed consideration, and perhaps adjustment of the Educational Specification, as part of its design process.

## Document Overview

This Elementary School Educational Specifications document is organized into distinct sections, containing information necessary for the planning, design, and construction of new school facilities. Those sections are as follows:

Executive Summary - The Executive Summary is an overview of the content of the Educational Specification document.
$21^{\text {st }}$ Century Best Practices - Information pertaining to nationally recognized best practices in education specifically as they relate to program delivery methods is included here.

Technology- A summary of the Long Beach Unified School District's Technology Plan will provide an understanding of how technology will be integrated into the curriculum and the facility.

Safety and Security - This section reflects an overview of the safety and security considerations.

Site Issues - Any special circumstances or considerations are important when designing a school. The design, traffic flow, lighting, landscaping, and parking issues are all addressed in this section.

Aesthetics - This section describes the visual appeal of each elementary school.

Community Use - Understanding community needs and integrating those needs into school facilities is an important aspect for all school districts. Various uses and programs are described in this section.

Program Areas - A summary of the types, number, and sizes of each instructional and support space (i.e. Space Requirements) is included with spatial relationship illustrations for each program area.


## Executive Summary

An elementary school facility should provide a nurturing but challenging learning environment, incorporating a multitude of teaching/learning styles, and encouraging respect for every individual. The ultimate goal is to create an active learning environment where students can develop the necessary skills and aptitude to become life-long learners and be technologically literate.

Long Beach Unified School District's Elementary School Educational Specifications represent the School District's guidelines and criteria for its new and newly renovated facilities. Elementary School Educational Specifications are
designed to create smaller communities or pods within the larger community. Flexibility was important in the planning of the elementary educational specification and is reflected in the space requirements. The space requirements chart provides space for a $400,550,700,850$, or 1,000 student school. The school administration has the ability to choose which capacity is appropriate for each elementary facility.

## Elementary School Space Requirements

The space requirements chart below lists program area to be included in an elementary school facility of $400,550,700$, 850, and 1,000 students.


Average Class Size


| Square Ft/ Student |  |  |
| :--- | :---: | :---: |
|  |  | SF per |
| \# Students | Total SF | student |
| 436 | 48,048 | $\mathbf{1 1 0 . 2}$ |
| 572 | 63,888 | $\mathbf{1 1 1 . 6}$ |
| 730 | 78,732 | $\mathbf{1 0 7 . 8}$ |
| 867 | 94,392 | $\mathbf{1 0 8 . 9}$ |
| 1,024 | 109,212 | $\mathbf{1 0 6 . 6}$ |


| Square Ft/ Student |
| :--- |
|  \# Students Total SF SF per |
| 508 |
| 48,048 |
| 666 |
| 63,888 |
| $\mathbf{9 4 . 6}$ |
| 849 |
| 78,732 |
| 1,007 |
| 94,392 |
| 1,190 |


| Elementary School Spaces | Suggested Spaces for 400 Students |  | Suggested Spaces for 550 Students |  | Suggested Spaces for 700 Students |  | Suggested Spaces for 850 Students |  | Suggested Spaces for 1,000 Students |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS* | Total SF | TS | Total SF | TS | Total SF | TS | Total SF | TS | Total SF |
| Core Academics | 20 | 23,650 | 26 | 31,650 | 33 | 41,400 | 39 | 49,200 | 46 | 58,350 |
| Special Needs | 1 | 2,130 | 2 | 3,310 | 3 | 4,490 | 4 | 5,670 | 5 | 6,850 |
| Media Center | 0 | 3,250 | 0 | 3,250 | 0 | 3,750 | 0 | 3,850 | 0 | 4,350 |
| Visual Art/Wet Lab | 0 | 0 | 1 | 1,200 | 1 | 1,200 | 1 | 1,200 | 2 | 2,400 |
| Music | 1 | 1,400 | 1 | 1,400 | 1 | 1,400 | 2 | 2,600 | 2 | 2,600 |
| Tech Ed/Computer | 1 | 1,200 | 1 | 1,200 | 1 | 1,200 | 2 | 2,400 | 2 | 2,400 |
| Welcome Center | 0 | 2,210 | 0 | 2,580 | 0 | 3,320 | 0 | 3,440 | 0 | 3,560 |
| Food Service | 0 | 4,800 | 0 | 7,050 | 0 | 7,050 | 0 | 8,100 | 0 | 8,100 |
| Custodial | 0 | 1,400 | 0 | 1,600 | 0 | 1,800 | 0 | 2,200 | 0 | 2,400 |
| Sub Total |  | 40,040 |  | 53,240 |  | 65,610 |  | 78,660 |  | 91,010 |
| Building Services, Circulation, etc. | 20.0\% | 8,008 | 20.0\% | 10,648 | 20.0\% | 13,122 | 20.0\% | 15,732 | 20.0\% | 18,202 |
| Total | 23 | 48,048 | 31 | 63,888 | 39 | 78,732 | 48 | 94,392 | 57 | 109,212 |

*Teaching Station
CAPACITY CALCULATI ONS Based on Class Size Average of 21.4

| Regular TS [Teaching Stations] | 20 | 26 | 33 | 39 |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Students Per TS | 21.4 | 21.4 | 21.4 | 21.4 |  |
| Sub Total Regular | $\mathbf{4 2 8}$ | $\mathbf{5 5 6}$ | $\mathbf{7 0 6}$ | $\mathbf{8 3 5}$ |  |
| Special Needs TS | 1 | 2 | 3 |  |  |
| Students Per TS | 8 | 8 | 8 | $\mathbf{9 8 4}$ |  |
| Sub Total Special Needs | $\mathbf{8}$ | $\mathbf{1 6}$ | $\mathbf{2 4}$ | 8 |  |
| Total | $\mathbf{4 3 6}$ | $\mathbf{5 7 2}$ | $\mathbf{7 3 0}$ | 8 |  |

CAPACITY CALCULATI ONS Base on Class Size Average of 25.0

| Regular TS [Teaching Stations] | 20 | 26 | 33 | 39 |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Students Per TS | 25 | 25 | 25 | 25 |  |
| Sub Total Regular | $\mathbf{5 0 0}$ | $\mathbf{6 5 0}$ | $\mathbf{8 2 5}$ | $\mathbf{9 7 5}$ | 4 |
| Special Needs TS | 1 | 2 | 3 |  |  |
| Students Per TS | 8 | 8 | 8 | 8 |  |
| Sub Total Special Needs | $\mathbf{8}$ | $\mathbf{1 6}$ | $\mathbf{1 1 5 0}$ | 5 |  |
| Total | $\mathbf{5 0 8}$ | $\mathbf{6 6 6}$ | $\mathbf{8 4 9}$ | 8 |  |

This overall drawing provides an idea of how the entire building might be configured. The drawing is a conceptual diagram, applicable to both new construction and existing buildings.

The pod concept might be interpreted as separate floors, or wings, within existing or as new construction, as existing conditions and site constraints determine. The pods can be clustered by grade (2-3) or in learning communities (K-5). Some schools may be configured as primary learning centers. (PreK-2)


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## Program Area Overview

Listed below is an overview of each program area to be included in the Pre-K-5 facilities in Long Beach. Special features of the school, such as furniture, equipment, technology, and site are also described.

* Administration/Student Services

Immediately upon entry, visitors will be greeted in the Administration "welcome area." The principal and support staff offices and guidance services will be located in a centralized area at the main entrance of the school.

* Core Academics \& Special Needs

The learning community concept accommodates a variety of instructional strategies and studentgrouping approaches. This concept also provides a learning environment that is characterized by flexibility, a sense of community for the students and teachers working in a cluster or community, and a safe/well-supervised environment. Teachers will have the option and flexibility within a cluster to create and organize learning environments that work for students and their learning styles.
The basic organizational unit for this school will be the learning community, consisting of general-purpose learning labs or classrooms, teachers' center, small group rooms and tutoring offices, self-contained special needs rooms, and resource rooms.

The learning communities can be organized based individual grade level (i.e. a $\mathrm{K}, 1^{\text {st }}, 2^{\text {nd }}, 3^{\text {rd }}, 4^{\text {th }}$, and $5^{\text {th }}$ grade community) or grade groupings (i.e. $2^{\text {nd }} \& 3^{\text {rd }}$,
$4^{\text {th }} \& 5^{\text {th }}$, etc.). The learning communities should be located around the Media Center and away from noisy spaces like the Gymnasium and Cafetorium. Special attention will be given to accessibility of all educational and support spaces and an integrated learning program.

粪 Media Center
The Media Center serves a dual role. Its traditional role is a place to conduct research and for learning. Its new role is to serve as a technological information base. In this new role, the Media Center houses a transparent voice/video/data network, which runs throughout the entire building. This network enables the transmission of media services to the desktops of teachers and students without them physically entering the media center. This area is changing from a "depository of books" to a "technology information distribution center." It is not projected that the library functions will discontinue; rather digital technology will enhance voice, video, and data communications within the school, among district facilities, and with distance learning resources.


* Visual Arts

The art curriculum will be accommodated in teaching spaces designed to provide workspace and storage areas.

* Music/Performing Arts

Music and Performing Arts is a dynamic part of any curriculum, providing students with an opportunity to improve their creative skills. Design, flexibility, and acoustics should be especially considered when planning these spaces. Further, since the community will use these spaces, location of the cafetorium/stage should be strategically placed within close proximity to the main entrance.

* Cafetorium / Student Dining

This area is planned as a flexible muti-purpose room that can accommodate student dining, performances, assemblies, physical education, and community meetings. It is proposed, through creative design, that this area will effectively house multiple functions with seating space for all uses.
These spaces should be designed and constructed with a focus on community use during non-school hours, since there is a high demand for both indoor and outdoor facilities.

* Community Spaces

School buildings are often viewed as centers for the community. To facilitate community involvement, a PTO room is provided.

## Special Features

* Corridors and Commons Spaces

The front entry lobby should be welcoming and inviting for students, staff, and visitors. Extensive display systems should be provided for 2-dimensional and 3dimensional student work and awards. Finishes should be durable and easy to maintain. The scale of all spaces should be child-friendly. Colors, artificial lighting, and natural day lighting should be managed artfully to create an environment that communicates that school is a very special place.

* Furniture \& Equipment

Classrooms vary in shape and size; therefore, the furniture should be flexible to accommodate a variety of classroom formats for both individual and group activities. Teachers and students should have storage space for personal belongings, papers, and books as well as storage for supplies and materials. Work areas exist with direct access to copiers, multi-media equipment, and telephones. Teacher preparation areas should be located in close proximity to classrooms to permit, encourage, and enhance student and teacher interaction.

* Technology


The facility will contain the latest in technology and be wired and wireless for voice, video and data throughout the building. The program design is intended to bring information to the desk of the student, and computer technology will be distributed in every classroom. It is intended that access
to technology will be seamless and pervasive throughout the building. The Media Center will serve as the hub for technology distribution.

* Handicapped Accessibility

The entire facility will be accessible for all students, staff, and visitors. This will be accomplished through judicious use of ramping and elevators where necessary, sufficient internal clearances for circulation, convenient bus/van loading and unloading, and nearby handicapped parking spaces. All elements of the Americans with Disabilities Act must be complied with, including way finding and signage, appropriate use of textures, and universal accessibility of all indoor and outdoor school facilities.

## Aesthetics \& Flexibility of the Learning Environments

Constructing the indoor and outdoor structures and spaces where students go to school today must meet many challenges and expectations. The aesthetics should reflect, first and foremost, the high academic aspirations of the school. It should have community visibility and presence. Creating a community landmark will establish a recognizable identity that will instill pride in its students and community. Areas within the school should be developed to have clear organization and internal identity.


The facility should capture the students, making them feel that the space is special, and therefore infer that each individual is special. Aesthetics that affirm the value of the
individual must be emphasized, with spaces for the admiration of the accomplishments of self and others. The school should resemble a place for academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how classes relate to one another. Spaces should be provided for positive socialization among students and with teachers.

* Variety of Instructional/Learning Spaces

Space needs for ongoing student assessments and emerging, more active learning methods results in a greater variety of spaces for learning. These include teacher team planning centers, multi-use rooms, and instructional materials storage rooms.

Spaces should be designed to allow for flexibility in educational delivery, size of student grouping, noisy collaborative student activities, and increasingly intensive reliance on computer technology. Spaces should allow students to work independently and collaboratively, give and/or receive tutoring, as well as accept instruction. Consideration should also be given to serving students of various ages.

Learning lab/classroom spaces in the elementary schools have been planned for 25 students in general instruction, 12 in Pre-K, and 8 in low incident special education spaces.

* Staffing Patterns

The predominant staffing pattern in the School District consists of classroom teachers for most contact with
most students, supplemented by specialist teachers and professional for exploratory learning and focused interventions. The latter are undertaken in separate specialized spaces and, wherever possible, through inclusion in the classrooms. As programs and groupings change, a more differentiated staffing pattern may emerge with lead or master teachers and more specialists and paraprofessional facilitators. The key is to embrace flexibility so that student needs will be met.

* Facility Change Should Be the Norm

Many school planning configurations of multiple, isolated classrooms make changes and additions costprohibitive and, once a building is constructed, often difficult to accomplish. Facilities should be constructed in a manner in which change and flexibility is the norm, not the exception. Building materials and furniture should be selected to support these concepts as well. The challenge of developing flexible space directly impacts the budget and space requirements. Developing flexible and common areas will impact all program areas and must be weighed for their effectiveness. In order to realize the full potential of a building's flexibility, staff training needs to occur on how the building might be used to meet the needs of students most effectively.

漛 Indoor and Outdoor Learning Environments
By rethinking all spaces, better use of the facilities and site can occur. One way to accomplish this is to use windows and outside areas to make rooms "feel"
larger as well as utilizing outdoor areas for teaching environments.
Common and shared use areas should be considered to provide spaces for positive interaction and orientation within the school. All learning environments should be developed to foster a sense of belonging and pride. The use of the building system/design as an actual teaching model and example of technology and environmentally conscious design should be considered. Creativity and functionality should work hand in hand. Color, building materials, furniture, and landscaping should be selected carefully to develop a pleasing and inviting atmosphere.
The learning environment should be student-centered and designed for "hands-on learning," promoting student autonomy and independence. Space for active participation should be incorporated, with classrooms providing opportunities for integrating disciplines and easy access to tools of exploration. The outdoor site should serve as a pro-active learning environment as well.

New vs. Existing Buildings
The concepts found herein can be applied to new construction as well as the renovation of existing facilities. It is important to point out that achieving the educational and facility concepts should be the primary goal, which may result in the need to modify some of the square footage guidelines. The final determination for modifications should be: Does the space meet the academic needs of the students?


## Overview of $21{ }^{\text {st }}$ Century Best Practices

As a result of the transition to the information age as well as the aging of facilities, school districts are investigating curricula, organizational models, current and emerging technologies, the role of administration and their local communities to determine the effect each of these has on student performance.

Investigations have resulted in "best practices" that suggest the following:

* Curriculum: Offer essential knowledge, integrate it, and make connections to real life
* Organizational Models: Provide student-centered pod approach
* Technology: Create pervasive and integrated system
* Administration: Increase student contact and flexibility
* Community Use: Instill a sense of participation, ownership, and pride
* Student Groupings: Schools should organize facilities into houses, pods, or clusters.
* Student Services: Schools should continually evaluate the services they provide in order to meet the changing needs of their students.

While these "best practices" are not intended to be solutions to all of the issues confronting schools. It is shown that school districts that choose to provide students with new educational opportunities have experienced marked improvement in student achievement.

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## 21st Century Best Practices

Public education is at a unique point in history. We have transitioned from the industrial age to the information age, and as most organizations have already done school districts across the country are considering changing the way they do business. School districts are investigating curricula, organizational models, current and emerging technologies, the role of administration, and their local communities to determine the effect each of these has on student performance.

These investigations have resulted in a series of educational "best practices" intended to provide students with the greatest opportunity for success. Implementing educational "best practices" can have a significant impact on facilities.

The following describes a few educational "best practices", cites examples where they have been implemented, and expresses the impact each has on facilities.

## Curriculum

Offer Essential Knowledge, Integrate It, and Make Connections to Real Life:

* Based on federal and state content standards
* Require content areas to be linked to one another
* Accommodate multiple-intelligences and learning styles
* Demand critical thinking and problem-solving
* Incorporate pervasive technology

恭 Utilize multiple performance assessments
Best Practice: "Best practices" suggest that the core of the elementary school curriculum must offer both the substance and the practicality to prepare students for an uncertain future. The curriculum should strive to meet individual needs without compromising larger goals. Dr. Willard Daggett, President of the International Center for Leadership in Education and a national expert on education, claims that schools should "make education rigorous and relevant for all students." Daggett uses a Rigor and Relevance Matrix to categorize curricula into one of four quadrants. Daggett defines rigor as the level of Bloom's Taxonomy achieved in any given lesson. He defines relevance as a continuum ranging from "knowledge in one discipline" to "applications to real-world unpredictable situations."

Facilities Impact: Adopting curricula that offer essential knowledge, integrated approaches, and connections to real life can have a significant impact on facilities. Facilities may require student production spaces for the creation of projects, small group rooms for collaboration, and large group presentation spaces for students to show their work.


## Organizational Models: <br> Provide Student-Centered House Approach

Best Practice: Student-centered approaches provide students with a variety of opportunities to learn and develop skills and competencies based on their individual needs. Organizational models such as grade-level teaming, schools-with-in-a-school, and thematic approaches often characterize these student-centered approaches.
"Best practices" might suggest that facilities be organized into pods, instructional units comprised of classroom spaces, student production spaces, and teacher preparation areas. "Best practices might also suggest that double-loaded corridor designs cannot provide the flexibility necessary to accommodate multiple organizational models nor can they foster the same level of cooperation, teaming, and sharing of professional resources as house designs.

## Examples

* Grade-Level Teaming: Grade-level teaming is based on organizing the building into separate grade-level units. Grade-level teams typically utilize an interdisciplinary approach.

Thematic Teaming: Thematic teaming is based on delivering curriculum within the context of a specific theme. Themes may include Science and Math, Fine and Performing Arts, or Foreign Language and Literature.

* Looping: Looping is based on teams of teachers staying with the same students for two years.

Facilities Impact: Implementing these organizational models, specifically the house concept, offers significant advantages to the delivery of curriculum and observation of students. While the impact implementing the house concept has on facilities is continually being evaluated in terms of major systems, it typically should not outweigh the educational advantages.

## Technology

Create Pervasive and Integrated Systems

* Access to voice, video, data, and electrical outlets provided in every instructional space

4. Proficiencies incorporated into other content areas

録 Utilize distance-learning opportunities

* Staff development

Best Practice: Technology continues to evolve and influence education. Technology has traditionally been perceived as a stand-alone content area with its own dedicated spaces. "Best practices," however, might suggest that technology should be incorporated into every learning space and into all curricula. Incorporating technology can accomplish two basic goals of education: linking traditionally isolated content areas and providing teachers with tools to explore more of Howard Gardner's multiple intelligences in their lessons.

Howard Gardner has indicated in "Frames of Mind" that there are several different types of intelligences (linguistic, mathematical, musical, kinesthetic, spatial, intrapersonal, interpersonal, and natural intelligence). Each person has strengths in some intelligences and weaknesses in others. Experts have indicated that students retain more information
when several intelligences are involved in the learning process. For example, The NTL Institute for Behavior Science reports that students retain only $10 \%$ of what they read, but retain $90 \%$ of what they read, see, hear, experience, and teach.

Facilities Impact: Incorporating technology into all learning spaces and into all curricula can have a significant impact on facilities. First, all learning spaces would require access to voice, video, data ports, and electrical outlets. Second, infrastructure must be designed in such a way to allow access for maintenance and upgrades as technology continues to evolve.

## Administration

Increase Student Contact and Flexibility
Best Practice: As a result of recent violent crimes occurring in school facilities, school districts across the country are searching for both active and passive means of security. While not the only reason, "best practices" suggest that decentralizing administration serves this purpose. The decentralization of administrative services also provides the flexibility and opportunity for increased student contact, decreased student anonymity, and opportunities for passive supervision.

In addition, assistant principals, deans, and counselors form teams, are closer to the student and teacher, and can more efficiently use their time, expertise, and resources because their offices are located in the academic clusters. Communication between administrators is no longer an issue as access to instructional information and student records
and maintaining a positive and secure school environment can be achieved through the effective use of technology.

Facilities Impact: Decentralizing administration affects facilities only by the necessity to relocate offices and support spaces within each learning community and/or other areas.

## Community Use

Instill a Sense of Participation, Ownership, and Pride

* Cooperative Alliances
* Youth Services
* Shared Decision-Making
* Community Service Volunteers

业 Parent Involvement

* School/College Partnerships

Best Practice: "Best practices" suggest that facilities should serve not only as an instructional centers for students, but also as user-friendly centers of the communities. Facilities should provide programs and access to resources for adults, businesses, and other community organizations. Community/school partnerships are playing an increasing role in elementary school facilities. These partnerships provide students with expanded learning opportunities, professional development opportunities for staff, and a venue for community activities.

Facilities Impact: Providing access to and forming partnerships with the community can have a significant impact on facilities. Additional spaces such as parent or community volunteer rooms, community locker rooms, and storage spaces may be necessary. In addition, for security purposes, community access may require careful attention to
the organization of the facility. Community accessible portions of the facility may need to be located in areas that permit the remainder of the facility to be secure before, during, and after school hours.



## Technology

Today, technology is used extensively to help students learn basic and critical thinking skills. In the future, the applications and capabilities of educational and information management technology will increase dramatically. Today, the majority of jobs require at least some technology proficiency and as such, it is expected that students will leave school with the ability to work with and use technology.

The implementation of voice, video, and data throughout school facilities is becoming a standard in schools across the country. Appropriate and strategically designed and installed technology will greatly enhance the teaching and learning of
basic skills and position a school to take advantage of technological developments in the future.

To take advantage of technology, schools will need comprehensive staff development programs and training; student access to technology applications; updated hardware and software in computer labs, classrooms, and media centers; updated school wiring and internet access; integration of technology into the academic content standards; home to school access; technical support personnel at the school level; and a security system that encourages use and protects the investment.

It is also important for schools to hire new teachers who already possess the required technology skills expected of teachers in the school department. Teachers and administration should also attend periodical technology inservices to make sure they know how to use the latest technologies.

All classrooms should be multi-use/multi-purpose with invisible technological support. There should be a seamless web of technology to support the classroom management between administration, teachers, students, and the home.

Research suggests that multi-sensory teaching is most effective in mastery of basic skills. Technology supports visual, auditory and experiential learning; therefore, it is recommended that all instructional spaces have voice, video, and data accessibility. This access enhances the flexibility of the learning environment to respond positively to alterations in the use of space. The wiring and other infrastructure components should be the first priority since terminal devices can be added later; however, wireless networks can also be added as the need arises. The facility should have surplus electrical power capacity and network wiring/bandwidth to permit expansion of technology.

It is important to note that all students demonstrate technology skills appropriate to their grade level. Students in will be expected to possess, as defined and assessed through authentic learning opportunities, applicable technology standards as outlined in the Providence Public School Department Technology Plan.


## Technology Components

Voice: Telephone and voice communications in every classroom and workspace to support internal and external communications

Video: Video distribution and video streaming in every classroom and throughout the building with interactive video capabilities to support whole and small group instruction, distance learning, and providing access to a wide range of internal and external resources

Data: Data retrieval capabilities in every classroom and throughout the building as well as network capabilities Citywide and to other external resources (i.e. Internet) Today's schools are being wired and equipped to support management and instructional applications. Current voice, data and video systems can provide leadership, instruction, data management, internet access, and student services which go far beyond the systems in schools that were constructed as recently as the late 1980's. Technology is becoming increasingly useful and appropriate to the student and the educator. As home and business worlds move into higher levels of technological applications, it is critical for schools to be equipped and play a leadership role in the integration of technology into the teaching, learning, and communication processes.

## Applications of Technology

Technology has four primary applications within the school environment. These applications have the potential to have a positive impact on every aspect of the educational processes

found in school. The following table illustrates the four primary applications that interface with each other and some examples of educational applications in each area.

| Communication/ | Student Services: |
| :--- | :--- |
| Productivity: | Schedules, Grades, |
| E-Mail, Word Processing, | Attendance, |
| Database, Spreadsheets, | Counseling, |
| Phone, Internet | Transportation, Food |
|  | Services |
| Educational Technology: | Business Systems: |
| Media Center, Computer | Accounting, Payroll, |
| Applications, A/V | Inventory |
| Applications, Distance |  |
| Learning, Internet |  |

## Technology \& The Learning Environment

Technology greatly enhances the learning environment. Technology, in the typical classroom, can support multiple instructional designs.

Whole Group Instruction [20-36 students] --This includes the use of overheads, DVD players, 36 -inch computer/TV monitors, PVP video/computer projectors, LCD flat panels and various forms of computer display techniques.

Small Group Instruction [6-8 students] This includes areas in the classroom and in shared common spaces, which a teacher or another resource person can work with groups of 6-8 students. The technology is essentially the same as whole group instruction technology, the only difference being the size of the groups.

Individualized Instruction [1-2 students] This is primarily a computer-based instruction design where students interact with a computer workstation. As all forms of technology become more and more digitized, it is envisioned that these will become multi-media workstations that integrate voice, video, and data formats as well as having high speed internet access.

The diagram that follows represents typical technology applications found in schools today.


## Classroom

It is recommended that all classrooms have voice, data, internet, and video accessibility. This will enhance the flexibility of the learning environment to respond positively to alterations in the use of space. The wiring and other infrastructure components should be the first priority since terminal devices can be added later with the exception of wireless networking which can be added as the need arises. The facility should have surplus electrical power and cooling capacity to permit expansion of technology. Infrastructure, systems and cabling are typically funded as capital projects.

The following components should be included in each classroom:

- One teacher workstation with voice, data, and video
- CAT 7 data drops with LAN, WiFi, and Internet with 6 fiber for future expansion
- Electric power availability [one quad per drop] and/or raceway wiring system to support 4-6 student computers
- Added cooling systems to offset the heat generated by the computers
- One video drop with mounted video/LCD projector
- One voice drop with telephone
- Possibly, preparation for future [25-30 data drops]
- Face plate switches
- Audio classroom enhancements
- Student computer work stations
- DVD port
- Wireless
- A/V plate on wall near teacher station
- Floor plate with power an data drop near teacher station

Careful attention should be given to furnishings, i.e., student desks, specialized or customized cabinetry, location of data ports, white boards, document cameras, and monitors.

## Electronic Media Studio

The electronic media studio equipment includes all of the devices to operate or control the video and media center system. Equipment will be able to be "checked in/out" of the studio. In addition, the room will be the centralized archive of student digital portfolios.

The equipment located in the electronic media studio includes:

- Video control systems
- CD-RW, DVD-RW
- DVD players/recorders
- Mounted LCD/PVP (Portable Video Projectors)
- Laptops
- Data drops for LAN, WiFi, and Internet access and computer workstations
- Interactive Video Distance Learning (IVDL)
- Circulation system
- Media retrieval system
- Fiber pulled to media center for future expansion
- 2-36 stationed wireless notebook carts
- Multiple electrical outlets for laptop charging


## Office

Office areas have the following needs:

- Appropriate voice and fiber/CAT 7 data drops and/or wireless capability with LAN, WAN, and Internet access
- Electric power availability (quad per drop)
- Capability to support computer, network, printer, and fax
- Staff workstations
- Telephones (voicemail and fax capability)
- Security video system (main office only)
- PA system
- Audio system
- Analog phone lines for fax machine
- Capability to support high speed networked copier


## Conference

Conference areas should include:

- Voice, video, and data drops for LAN, WiFi, Internet access, and fiber pulled for future
- Electric power availability [quad per drop]
- Capability to support video monitor and video projection
- One telephone
- One computer
- A/V plate
- Ceiling mounted LCD projector
- Video conferencing equipment


## Cafetorium / Multipurpose Room

These spaces should have the following equipment:

- Video ports and monitors that can be used for video displays of electronic bulletin boards
- CAT 7 data drops and/or wireless capability (WiFi) with LAN, WAN, and internet access to support point-of-sale devices, fiber pulled for future, inventory system access, and student access
- Telephones (voicemail capability in Cafetorium Office)
- Analog phone line to monitor refrigeration systems
- Mounted LCD and workstation
- Centralized control panel for video and data
- Storage space


## Gymnasium

The gymnasium should have the following equipment:

- Video ports and monitors that can be used for video displays of electronic bulletin boards
- 2-3 video and fiber/CAT 5/6 data drops with LAN, WAN, and Internet access
- Portable video projector (PVP) and computer
- Large, electric front projection screen budget and includes:
- Telephone
- PA system
- Annual software support agreements
- Audio system
- Annual hardware support agreements
- Centralized control panel for scoreboard, video
- Upgrading specific computers for specific monitors, electric front screen, and audio curriculum tasks


## Technology Control Room

The Technology Control Room will house Uninterruptible Power Supplies (UPS), communication servers, PBX, video system, network router, and network switches. In addition, this room will have additional cooling systems to maintain a consistent room temperature.

Furniture will consist of IEEE racks, worktable, and monitor stand. All equipment must be located by ample electricity and have an assessable diameter of 4-5 feet.

## Funding and Implementation

Educational software is typically funded through operating budget grants and includes:

- Productivity software
- Computer lab applications
- Library automation software
- Reference resources (computer and A/V)
- Curriculum-specific software
- Curriculum-specific A/V media
- Textbook inventory
- Student Information System access

Maintenance is funded as a line item in the yearly budget and includes:

- Annual software support
- Annual hardware support agreements
- Upgrading specific computers for specific curriculum tasks

Staff Development is funded from the operating budget and grants and includes:

- In-service training on technology
- Special training activities for advanced users [stipends and summer grants]
- Attendance at regional and national shows

Staff Support is also funded from the operating budget and grants and includes:

- Technology directors hired to implement plan[s] instructional focus
- Educational technology specialists
- Technology technicians - repair and maintenance (computers, network, and telecommunications)
- Building-level technology coordinator
- Media production staff
- Help desk staff
- Webmaster


## Upgrades - funded as capital

- Expansion of network resources
- Expansion of telecommunications
- Media production
- Replacement of technology hardware - replacement cycle
- Replacement of obsolete video equipment
- Replacement of obsolete computers

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## Safety \& Security

There is a high interest in maintaining an inviting and deinstitutionalized environment, while simultaneously providing a safe environment for students, staff, and community who use the facility and adjacent support services. The organization of a building will have a major impact on student behavior and safety concerns. Building security can be addressed in an active or a passive manner: active security is based on security systems; passive security is based on program design, building configuration, and community participation. Schools should be based on passive concepts with applied active concepts where necessary.

If we deal with the symptoms of the problem, we tend to focus on the active security procedures that can be implemented. If we deal with the cause of the problem, we are likely to address most of these issues through passive or program and building configuration solutions.

The problems and their causes are multi-dimensional: some issues can be addressed, while others cannot. Causes include, but are not limited to, family problems, lack of sense of belonging, lack of identity, lack of communication, lack of accountability, and student/teacher relationships. Passive program and building configuration should be the primary focus and active security systems the secondary focus.

Since the greatest number of discipline problems in a school occurs when students switch classes and have to travel from one end of the building to the other, having students spend the majority of their day in one section of the building, reducing movement will result in fewer discipline problems. Teams of teachers having responsibility for the same students improve the student/teacher relationship and results in greater continuity and monitoring of behavior issues.

Organizing a building into teams or clusters results in a number of changes which will reduce behavior problems:

* Teacher preparation areas place adults in closer and more direct contact with students.
* Utilizing a decentralized administration approach provides the opportunity to have counselors, and/or assistant principals easily accessible to student sin the academic clusters.
* Students have a greater sense of belonging and identity. For the majority of the day, their place is in the cluster/house.
* School pride becomes more apparent.
* Block scheduling is commonly utilized in secondary schools and also helps reduce pedestrian traffic within the building
The glass wall into the administration reception/waiting area in the pictures here provide good visibility of the main entrance. It serves a dual purpose of being inviting and welcoming to visitors while allowing administrative staff to monitor access during school hours. Way-finding is crucial to a successful school facility. The front entrance and reception area should be immediately obvious to anyone approaching and entering the building.


Monroe ES
Richmond, IN


Glazing (interior windowes) provides opportunities for active
and passive supervision.


## Passive Security Concepts

## Building Layout

4. Avoid blind spots, corners, and cubby holes

* Locate administrative and teacher preparation with good visual contact of major circulation areas [i.e., corridors, cafetorium, bus drop-off, parking]
* Develop spatial relationships in such a manner that there are natural transitions from one location to another
* Locate toilets in close proximity to classrooms
* Design toilets to balance the need for privacy with the ability to supervise
* Locate areas likely to have significant community [after school] use close to parking and where these areas can be closed off from the rest of the building.
量 Provide for natural integration of students and staff
* External exits from offices
* Wide stairwells in two-story buildings: use of glass windows
* Ability to partition unused portions of building
* Include elevator in two-story buildings
* Research on tsunami and schools that are at risk

者 Minimize entry points into building and site

* Secure entrance to main office
- Separate entrance for students
* Enter staff restrooms through student restrooms
* Decentralization of staff work areas
* Visitor restroom at secure entrance to main office


Santa Rita School, US, California, Gelfand Partners Architects

## Types of Building Materials

＊Use durable wall surfaces that are easy to clean so graffiti can be removed
＊Incorporate pitched roofs which inhibit roof entry and are aesthetically pleasing
＊Limits size of windows－use multiple smaller windows rather than one large window
黄 Glaze or tint windows
＊Install non－slip floors at point of entry

## Vehicular and Pedestrian Traffic

＊Separate bus drop－off area from other vehicular traffic
＊Separate staff，student，and community parking area， located in appropriate areas
＊Separate student［pedestrian］traffic flow
幾 Consider impact on safety of＂closed＂campus vs．＂open＂ campus
＊Decorative traffic barriers

## Uses of Technology

For instructional and administrative purposes，the new school should have extensive technology systems．These same infrastructures and technology components can be use to enhance building security．
＊Phones in every instructional and support area
着 Building－wide all－call designed to be heard throughout the school and on the play fields when needed．
业 Motion or infra－red detectors，which can also be configured to conserve lighting costs．
＊Video cameras that are used for instructional purposes could also be used for security purposes during non－ school hours．
＊Smoke and heat detectors located throughout the building．
＊For access control into the building，there are alternatives to keys，such as access control cards．These are plastic ＂swipe cards＂and proximity cards，both of which can be used as identification cards．The swipe card is places in a machine，while the proximity card simply has to be used close［usually three to seven inches］to the reader to unlock a door．The cards are coded to allow entry to appropriate doors at selected times．Only one card is required for multiple entry points．Used in conjunction with the card is the controller，which monitors alarms， and the software，which is customized for the application ［establishes parameters，maps input－output points， enters phone numbers for dial－up site］．Other approaches include a battery－operated lock that requires a numerical code on a keypad．
＊Wiring for CCTV in all hallways，offices，classrooms，and parking area
＊Panic buttons located in all rooms
＊Securable lobby area
＊Programmed wipe cards used for doors
＊Sound detection system

## Landscaping, Playing and Practice Fields, Site, and Lighting

* Use high trees and low bushes [less than three feet high] to deter hiding
* Use aesthetically pleasing fencing around perimeter of the building
* Place some buildings or a tree buffer along the perimeter of the property to avoid extensive fencing
* Non-intrusive lighting of all area [not correctionaltype lighting]
* Emergency lighting/power in hallways, stairwells, auditorium, multi-purpose room, and classrooms
* Provide security lighting around building and parking lots with photo cell timer with on/off capacity
4 Separate athletic fields and informal gathering areas
4 Locate athletic facilities away from building
* Recess building on site to avoid vehicular and pedestrian conflicts


The images left and below are cxamples of exterior and interior lighting usage to create a warm, safe, and inviting environment.


Council Rock HS - Richboro, PA Gilbert Architects


The image above is an example of using low bushes and high trees as landscaping features that deter hiding.
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## Site Issues

In some instances, implementation of the Long Beach Unified School District Facility Master Plan will result in renovation, closure, or construction of new schools on new sites. The Architect of Record for each school will be responsible for location of school on the site as well as site issues including topography, drainage, pedestrian and vehicular traffic, bus drop off and pick up areas, service entry, and safety of playground areas. Since Long Beach Unified School District is an urban school department, creative solutions will be required to address the considerations stated in this section.

The Long Beach Unified School District offers the following considerations for each of its K-5 school sites.

- Separate faculty and visitor parking areas
- Blacktop area
- Multi-purpose playfield
- Exterior lighting
- Fire vehicle access
- Fencing around school
- Location of "athletic centers"
- Service entry
- Separate drives for parent drop-off and buses
- Landscaping
- Use of adjacent properties
- Covered walkways between buildings
- Fencing should allow secure building but access to playground, courts, and fields to the community
- Restrooms next to playground for before/after school activities and community events

- Car, bus, and service vehicle traffic must be separated
- Vehicular and pedestrian traffic must be separated
- Consider access by fire department emergency vehicles when planning site circulation
- Provide drive-up access for large items in areas such as Food Service and Custodial/Maintenance
- Provide adequate areas for entering and leaving play fields
- Separate drop-off for special education buses
- Sufficient length in drop-off for bus stacking
- Separate parent drop-off area with covered walkway
- Sufficient length in drop-off for parents' car stacking
- Adequate and separate parking facilities should be provided for visitors and staff
- The school site must provide adequate areas for entering and leaving, parking, and play fields
- Consider covered walkways from car and bus drop-off areas
- Comply with regulations for handicapped access
- Parking shared between school and community uses
- Include exterior security lighting with photo-cell timer for parking lots and exterior of building
- Provide appropriate lighting for athletic and practice fields
- Provide appropriate lighting for walkways
- Design irrigation of fields, lawn, and landscaped areas
- Low-maintenance landscaping plantings
- Consider outdoor spaces as an extension of the classroom and opportunities for exploration and education
- Student-friendly
- Places to rest and read
- Trees for shade
- Benches around trees
- Sufficient green space

| Parking Spaces Based on <br> Percentage of School Population |  |  |  |
| :--- | :---: | :---: | :---: |
|  | Elementary | Middle | High |
| Staff | $10 \%$ | $10 \%$ | $10 \%$ |
| Visitor | $3 \%$ | $3 \%$ | $3 \%$ |
| Student | $20 \%$ | $20 \%$ | $20 \%$ |



- For inclement weather
- Eating lunch
- Outdoor classwork
- Waiting for parents
- Before/after school activities
- Walkways between buildings
- Away from noise

- Games/PE
- Before/after school activities
- Hanging basketballs
- "Outdoor gymnasium"
- 2,000 SF
- High ceiling over asphalt
- Multipurpose covered area: lunch, etc.
- Secure and safe playing fields for students with direct access from the building
- Multi-purpose grass: softball, soccer, etc.
- Paved areas: circles/games, volleyball, basketball, track lanes
- Equipment: small goals, small baskets, safe playground equipment
- Drinking fountains located throughout playing fields
- Playground equipment: ropes, mats, cones

- For recess
- After lunch
- Close to recess/after lunch recess area
- Attach to building
- Multiple, easy access
- For recess
- After lunch
- Close to recess/after lunch recess area
- Attach to building
- Multiple, easy access
- Hose hook-up
- Grassy area with shade
- Easy access to restrooms
- Portable water table/sand table
- Eating area with awning
- Outside intercom to reach office
- Storage for equipment and supplies
- Equipment that has climbing, sliding, walking, hanging,
- Crawling pretend play all loco-motor/balance, tricycles, tunnels
- Track to ride tricycles
- Hoop, hopscotch, circles, numbers, alphabet on pavement
- Jump rope area
- Garden area with sprinklers
- Drinking fountain
- Benches for eating and sitting

The following site guidelines for play fields are taken from the California Department of Education's Guide to School Site Analysis and Development: 2000 Edition.

## Table 3 Site Requirements for Dementary Grades (In Schools with More Than Six Classrooms)

| Kindergarten | Number of classroame |  |
| :---: | :---: | :---: |
|  | 1 | 2 |
| Type of ontdoor facility (in square feet) |  |  |
| Turfed ares | 3,000 | 5,500 |
| Paved aren | 2,000 | 4,000 |
| Appuratus area | 2,000 | 2,500 |
| Land roquired for builaings and grounds | 2,800 | 4,000 |
| Total square foot reguired | 9,800 | 16,000 |
| Percentage factor for lapout | 20 | 20 |


|  | Grades one through three |  |  |  |  | Grades four through six |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Evrolimment |  |  |  |  | Emoliment |  |  |  |  |
|  | Upto 75 | $\begin{gathered} 7650 \\ 150 \end{gathered}$ | $\begin{gathered} 151 \text { to } \\ 300 \end{gathered}$ | $\begin{aligned} & 30150 \\ & 450 \end{aligned}$ | $\begin{aligned} & 451 \text { to } \\ & 600 \end{aligned}$ | Up to 75 | $\begin{gathered} 7610 \\ 150 \end{gathered}$ | $\begin{gathered} 151 \text { to } \\ 300 \end{gathered}$ | ${ }_{450}^{301} \text { to }$ | $\begin{gathered} 451 t 0 \\ 6000 \end{gathered}$ |
| T)pe of outdoor faciliny | Mimber offacilitios roquired |  |  |  |  | Number offacilities roguired |  |  |  |  |
| A Field ruen $90 \times 120^{\circ}$ | 1 | 1 | 2 | 2 | 4 |  |  |  |  |  |
| B Hardcout uren $60 \times 75^{\prime}$ | 1 | 2 | 4 | 6 | 8 |  |  |  |  |  |
| C Apparatis area ( $3,200 \mathrm{sq} . \mathrm{ft}$ ) | 1 | 2 | 3 | 4 | 5 | 1 | 2 | 3 | 4 | 4 |
| D Field men $180^{\circ} \times 180^{\circ}$ |  |  |  |  |  | 1 | 2 | 4 | 4 | 4 |
| E Field meen $120^{\circ} \times 180^{\prime}$ |  |  |  |  |  |  |  |  | 2 | 4 |
| F Hardicout men $80 \times 100$ |  |  |  |  |  | 1 | 2 | 4 | 6 | 8 |
| Percentage factor for layout | 15 | 15 | 10 | 10 | 10 | 20 | 15 | 10 | 10 | 10 |




Nac
-
DeJONG


## BASIC UNIT B

SPACE MODULE 60' $\times 75^{\prime}$
Showing typlcal activities for 75 chlidren

LAYOUT WILL VARY


Basic Unit C, an apparatus area, is a space module of 3,200 square feet. The architect may design the area according to the dmensions of the particular type of apparatus to be installed as long as the total area does not exceed 3,200 square feet. Basic Unit C provides space for up to 75 students in grades one through slx. (See Table 3 for additional bask units needed for enrolments beyond 75 in those grades.)



BASIC UNIT D sPACE MODULE $180^{\circ} \times 180^{\circ}$ Combined use for softball or feld sreas


## 4 UWTS OF D PLUS 2 UWTS OF E



450 MAXMUM ENROLLMENT $172,800 \mathrm{sq}$ 柆

4 UNTS OF D FLUS 4 UNUTS OF E


600 MAXMUM ENROL LMENT
$216,000 \mathrm{sq}$. ft. Long Beach Unified School District Elementary School Educational Specifications


BASIC UNIT $F$
EACH EMROL L MENT INCREMENT OF 76 REQUIRES 1 MODULE REQUIRES 1 MODU

LAYOUT WLL VARY


4Eo maxiaun enrollment
$48,009 \mathrm{eq} . \mathrm{f}$.


GNO MAFIMUH ENRDLLMENT
$84,050 \mathrm{cq} . \mathrm{H}$

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## Aesthetics

The indoor and outdoor structures and spaces where students go to school need to be aesthetically pleasing and healthful settings. The facility should capture the students, making them feel that the space is special, and therefore emphasizing that each individual is important. Aesthetics that affirm the value of the individual must be stressed, with spaces for the admiration of the accomplishments of self and others. The school should resemble a place for academic success, high self-esteem, social interaction, and physical safety. The facility layout should be especially easy to comprehend and reflect how classes relate to one another in order to minimize the lost feeling common in students.

Spaces should be provided for socialization among students and with teachers.

## Variety of I nstructional / Learning Spaces

Ongoing assessment of student progress will require facilities to be able to adapt with a changing program. Multi-use of buildings should be the norm. Spaces should allow for a wide variety of specialized instructional and hands-on learning experiences.

Today, students do not just work in groups of $20-25$. As technology continues to advance, students are becoming more involved in extensive individual learning activities that are supplemented by small group [2-6 students], moderate group [10-20], and large group [50-150] activities. Space should be provided for students to plan work independently and collaboratively, give and/or receive tutoring as well as accept instruction.

## Staffing Patterns

The predominant staffing pattern is composed of teachers, supplemented with para-professionals and specialists. As the programs and groupings change, a more differentiated staffing pattern may emerge with lead or master teachers and more specialists and para-professional facilitators.

## I ndoor and Outdoor Learning Environments

By rethinking spaces, better use of the facilities can be made. Some ideas include: use gardens instead of pavement and use hallways as art galleries or museum strips. Creativity and functionality should work hand-in-hand. Color, greenery, building materials, and furniture should be selected carefully to develop a pleasing and inviting atmosphere.

The learning environment should be student-centered and designed for "hands-on learning," promoting student autonomy and independence. Space for active participation should be incorporated with modular, flexible classrooms providing opportunities for integrating disciplines and easy access to tools of exploration. The outdoor site should serve as a pro-active learning environment as well.

## Learning from Others

Modern office environments provide greater insights into flexibility than current school environments. Many of their concepts should be taken into consideration:

- Demountable, movable wall systems
- Modular furnishings
- In - floor wiring
- Non-load bearing wall systems
- Raceways, cable trays
- More generic space that can be adapted to specialized uses


## Planning Principles

Following are planning principles employed by other districts when developing elementary school sites:

- Good signage - marquee board (with directions on how to find entrance and location within the facility)
- Landscaping - good upkeep
- Dumpster not visible
- Separate access road for deliveries
- Pleasing, inviting, happy colors (soothing colors)
- Cove lighting in corridors
- Arched ceilings in corridors
- Lighting - natural - skylights
- Enclosed media center with skylights
- Student art work - 1 showcase by office
- Plants - artificial and real
- Classroom -tile with soothing pattern and color
- Complimentary carpet and tile mix appropriately used throughout the building
- Top windows operable



## Community Use

School districts and governmental agencies are beginning to realize that cooperation is needed，especially considering shrinking budgets and the diverse needs of the community．

Community involvement in education can take a variety of forms before，during，and after the school day．

The following is a partial list of potential community uses：
＊Mentoring Programs
＊After School Youth Enrichment
＊Pageants
＊Child care（staff，students，community）
＊Recreation Programs

显 Outdoor Festivals
＊Intramural Sports Programs
＊Dance Recitals
＊Open House Activities
＊Parental Involvement
＊Adult Education／ESL
＊Senior Citizens Programs
者 Community Meetings
＊Board of Education Meetings
＊School／Community Partnerships
＊Church－Related Activities
＊Health Screening
＊Special Seminars
＊Voting
Based on limitations established for the size of school facilities and budget constraints，most of the community uses will need to focus on shared space that is used primarily for school programs during the school day and community uses during non－school hours．

The areas in schools that have the greatest possibility for community usage include：
＊PTA Room
＊Parent Room／Center
＊Library／Media Center
4 Conference Rooms
业 Small Group Rooms
＊Cafetorium and Stage
＊Parking Lots
＊Playfields

Special considerations include:

* Disaster and emergency use
* Configure and zone facility and site to enhance parking and circulation, security, and energy conservation
* Adequate signage to assist community members
* Layout of community use areas should be of a "user friendly" design
* Storage


## Community Support

Many schools rely on community volunteers to participate in tutoring and mentoring programs that take place in the school facility. It is important to program adequate space for these programs. For instance, where does a volunteer tutor sit with a student, or small group of students to conduct tutoring? Is there a specific place for this to occur, or is the volunteer in the hallway or stairwell? Where does the volunteer put his or her belongings? Tutoring space can be provided through small group rooms adjacent to classrooms or through conference rooms located in each learning community. Adequate parking space should be provided for volunteers in the visitor parking lot.

Collaboration and partnerships require greater cooperation in the planning of schools and community facilities. It is important for the school district, governmental agencies, and corporate partnerships to participate collaboratively in the planning of schools.

Planning for future schools should include joint use considerations at the beginning of the process. School districts and governmental agencies are beginning to realize that cooperation is needed, especially considering shrinking
budgets and the diverse needs of the community. There are potential opportunities in jointly developing parks, libraries, and one-stop shopping centers for human services. Partnerships and joint ventures should be considered and encouraged by the Board of Education.

## Multi-Service Center

Today, social and family issues of students and the community have caused the schools to re-examine its' services. Schools are forced to not only educate students, but to address a myriad of social economic and family issues. This arduous task is far too massive for schools alone. As a result, schools are beginning to partner with various agencies as a means of its' students and the community.
The multi-service center concept incorporates a "one-stop" shopping center for the delivery of community and educational services. Typically, community services have been delivered separately. Schools, recreational programs, libraries, preschool, daycare, health care, employment agencies, and governmental services have been housed in their own buildings. Today, multi-service centers are housing different agencies in a shared space arrangement.

The initial start-up cost for this type of facility would be greater than that of a traditional school, but the cost of housing and operating all of the services separately far exceed the collective cost. For years, the debate has been where the school's responsibility begins and ends. The multi-service center clearly assumes more responsibility than the typical school, yet it is composed of several agencies to handle the burden. Articulation and cooperation among service providers is essential and appears to be possible in the current climate.

## I ssues that need to be considered include:

* Location of the Facility and Its Constituents

Not all social service agencies share the same geographical area. One site may be more appropriate for one group than another. Because such a facility will be larger than a typical school, more space is needed and greater attention should be paid to where the facility is located in conjunction with the surrounding neighborhood.
罾 Size of Building
Multi-service centers can become large and complex institutions when several services and programs are added to an already large school. Instead of one megabuilding, the center may consist of a series of small, interconnecting facilities. Another option is to organize the facility as a cluster of pavilions along a central mall or enclosed street. The shopping center concept best characterizes most multi-service centers.

* Separation of School, Community \& Shared Spaces The most common practice in the interior layout of centers is to separate spaces intended for school use only, community use only, and shared use. The facility's entrances and corridors are designed so that each area can be accessed separately.

渚 Finance
Often educational and community services have their own capital improvement and operating funding sources. There are a number of state policies and statutes that prohibit shared use of space or co-mingling of funds even though most policy-makers readily endorse the multi-
service center concept. Several state governments have had to revise current statutes and practices to make this concept permissible and others have actually provided school districts and governmental agencies with financial incentives to engage in joint use of facilities.

## * Governance

Typically, the facility is owned by the City and is operated through a joint governance structure, which includes shared maintenance and operating costs.

The following are suggestions regarding use of Long Beach Unified School District facilities:

- A media center with flexibility to support small groups.
- A cafetorium and gymnasium close to visitor parking and restrooms.
- Outside access to the media center and community room for after hours use.
- On site child care and recreation areas for staff and volunteers.
- Emergency space for natural disasters for community use if necessary.
- Community room area close to cafetorium/ gymnasium with storage space, table, file cabinets, telephone, computer, and copier access.
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## Total Building Space Requirements

The following table lists the total teaching spaces and square footage for three different sizes of schools.

| K-8 School Spaces | Proposed Spaces for 600 Students |  | Proposed Spaces for 900 Students |  | Proposed Spaces for 1,200 Students |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS* | Total SF | TS | Total SF | TS | Total SF |
| Core Academics | 29 | 36,090 | 42 | 52,410 | 55 | 68,970 |
| Special Needs | 1 | 1,810 | 2 | 2,870 | 3 | 3,930 |
| Media Center | 0 | 3,700 | 0 | 4,000 | 0 | 4,500 |
| Visual Arts | 1 | 1,575 | 1 | 1,575 | 2 | 3,150 |
| Music | 1 | 1,500 | 2 | 3,100 | 2 | 3,500 |
| Tech Ed | 1 | 1,400 | 1 | 1,400 | 2 | 2,800 |
| Physical Education | 1 | 11,250 | 2 | 12,500 | 3 | 13,900 |
| Administration | 0 | 3,430 | 0 | 3,990 | 0 | 5,360 |
| Food Service | 0 | 6,350 | 0 | 8,350 | 0 | 9,550 |
| Custodial | 0 | 1,800 | 0 | 2,000 | 0 | 2,200 |
| Sub Total |  | 68,905 |  | 92,195 |  | 117,860 |
| Building Services, Circulation, etc. | 20.0\% | 13,781 | 20.0\% | 18,439 | 20.0\% | 23,572 |
| Total | 34 | 82,686 | 50 | 110,634 | 67 | 141,432 |

*Teaching Station
CAPACITY CALCULATIONS based on 23.1 students per classroom]

| Regular TS [Teaching Stations] | 29 | 42 | 55 |
| :--- | :---: | :---: | :---: |
| Students Per TS | 23.1 | 23.1 | 23.1 |
| Sub Total Regular | 669.9 | 970.2 | 1270.5 |
| Special Needs TS | 1 | 2 | 3 |
| Students Per TS | 11 | 11 | 11 |
| Sub Total Special Needs | $\mathbf{1 1}$ | $\mathbf{2 2}$ | $\mathbf{3 3}$ |
| Total | 681 | $\mathbf{9 9 2}$ | $\mathbf{1 , 3 0 4}$ |

Class Size $=23.1$

|  |  | SF per |
| :---: | :---: | :---: |
| \# Students | Total SF | student |
| 681 | 82,686 | $\mathbf{1 2 1 . 4}$ |
| 992 | 110,634 | $\mathbf{1 1 1 . 5}$ |
| 1,304 | 141,432 | $\mathbf{1 0 8 . 5}$ |

Class Size = 26.5

|  | SF per |  |
| :---: | :---: | :---: |
| \# Students | Total SF | student |
| 780 | 82,686 | $\mathbf{1 0 6 . 1}$ |
| 1,135 | 110,634 | $\mathbf{9 7 . 5}$ |
| 1,491 | 141,432 | $\mathbf{9 4 . 9}$ |

Overall Building Drawing: 900 Students


## 픔

## Program Area Space Requirements

## Core Academics Space Requirements

| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| PreK Classroom | 2 | 2 | 1,350 | 2,700 | 3 | 3 | 1,350 | 4,050 | 4 | 4 | 1,350 | 5,400 |
| Kindergarten Classroom | 3 | 3 | 1,350 | 4,050 | 5 | 5 | 1,350 | 6,750 | 7 | 7 | 1,350 | 9,450 |
| Learning Lab/ Storage |  | 2 | 200 | 400 |  | 3 | 200 | 600 |  | 4 | 200 | 800 |
| Learning Lab/Classroom | 6 | 6 | 960 | 5,760 | 10 | 10 | 960 | 9,600 | 13 | 13 | 960 | 12,480 |
| Small Group Room |  | 1 | 150 | 150 |  | 2 | 150 | 300 |  | 3 | 150 | 450 |
| Team Planning Areas/Faculty Lounge |  | 1 | 300 | 300 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |
| Resource Room |  | 1 | 960 | 960 |  | 1 | 960 | 960 |  | 1 | 960 | 960 |
| Restrooms |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Sub Total | 11 |  |  | 14,570 | 18 |  |  | 23,010 | 24 |  |  | 30,490 |


| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Learning Lab/Classroom | 9 | 9 | 960 | 8,640 | 12 | 12 | 960 | 11,520 | 15 | 15 | 960 | 14,400 |
| Small Group Room |  | 3 | 150 | 450 |  | 3 | 150 | 450 |  | 3 | 150 | 450 |
| Team Planning Areas/Faculty Lounge |  | 1 | 300 | 300 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |
| Resource Room |  | 1 | 960 | 960 |  | 2 | 960 | 1,920 |  | 3 | 960 | 2,880 |
| Restrooms |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Total | 9 |  |  | 10,600 | 12 |  |  | 14,640 | 15 |  |  | 18,680 |


| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Learning Lab/Classroom | 6 | 6 | 960 | 5,760 | 9 | 9 | 960 | 8,640 | 12 | 12 | 960 | 11,520 |
| Science Classroom \& Storage | 3 | 3 | 1,200 | 3,600 | 3 | 3 | 1,200 | 3,600 | 4 | 4 | 1,200 | 4,800 |
| Small Group Room |  | 3 | 150 | 450 |  | 3 | 150 | 450 |  | 3 | 150 | 450 |
| Team Planning Areas/Faculty Lounge |  | 1 | 300 | 300 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |
| Resource Room |  | 1 | 960 | 960 |  | 2 | 960 | 1,920 |  | 3 | 960 | 2,880 |
| Restrooms |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Total | 9 |  |  | 11,320 | 12 |  |  | 15,360 | 16 |  |  | 20,600 |

## Total Core Academic Area

Total Space for Core Academic Two Tables above Added Together
PreK-K Learning Lab/Classroom Learning Lab/Classroom Science Classroom \& Storage Small Group Room Team Planning Areas/Faculty Lounge Resource Room
Restrooms
Restrooms

| Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| 5 | 5 | 1,350 | 6,750 | 8 | 8 | 1,350 | 10,800 | 11 | 11 | 1,350 | 14,850 |
| 21 | 21 | 960 | 20,160 | 31 | 31 | 960 | 29,760 | 40 | 40 | 960 | 38,400 |
| 3 | 3 | 1,200 | 3,600 | 3 | 3 | 1,200 | 3,600 | 4 | 4 | 1,200 | 4,800 |
|  | 7 | 150 | 1,050 |  | 8 | 150 | 1,200 |  | 9 | 150 | 1,350 |
|  | 3 | 300 | 900 |  | 3 | 500 | 1,500 |  | 3 | 700 | 2,100 |
|  | 3 | 960 | 2,880 |  | 5 | 960 | 4,800 |  | 7 | 960 | 6,720 |
|  | 3 | 250 | 750 |  | 3 | 250 | 750 |  | 3 | 250 | 750 |
| 29 |  |  | 36,090 | 42 |  |  | 52,410 | 55 |  |  | 68,970 |

Special Needs Space Requirements

| Special Needs Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Self-Contained Classroom [SDC: MS, M, OI]* | 1 | 1 | 960 | 960 | 2 | 2 | 960 | 1,920 | 3 | 3 | 960 | 2,880 |
| Time-Out Room/Additional Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Restroom/Shower |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Student Services Offices |  | 2 | 100 | 200 |  | 3 | 100 | 300 |  | 4 | 100 | 400 |
| Resource/Tutorial Room [RSP, SDC: ED, MM, DHH] | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  |
| Conference Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Adaptive PE | See PE |  |  |  | See PE |  |  |  | See PE |  |  |  |
| Special Needs Sub-Total | 1 |  |  | 1,810 | 2 |  |  | 2,870 | 3 |  |  | 3,930 |

* classrooms divided by moveable walls; can be turned into smaller room


## Media Center Space Requirements

| Media Center Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Library/ Media Center Main Room |  | 1 | 1,500 | 1,500 |  | 1 | 1,500 | 1,500 |  | 1 | 2,000 | 2,000 |
| Multi Media Workroom/Kinkos |  | 1 | 800 | 800 |  | 1 | 800 | 800 |  | 1 | 800 | 800 |
| Media Specialist/Clerk Office |  | 1 | 200 | 200 |  | 2 | 150 | 300 |  | 2 | 150 | 300 |
| Workroom |  | 1 | 300 | 300 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| Textbook Storage |  | 1 | 500 | 500 |  | 1 | 600 | 600 |  | 1 | 600 | 600 |
| Telecommunications Room |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| A/V Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Media Center Sub-Total | 0 |  |  | 3,700 | 0 |  |  | 4,000 | 0 |  |  | 4,500 |

## Visual Arts Space Requirements

| Visual Art Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Art Room | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 | 2 | 2 | 1,200 | 2,400 |
| Kiln Room |  | 1 | 75 | 75 |  | 1 | 75 | 75 |  | 2 | 75 | 150 |
| Storage |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 2 | 300 | 600 |
| Visual Arts Sub-Total | 1 |  |  | 1,575 | 1 |  |  | 1,575 | 2 |  |  | 3,150 |

## Music Space Requirements

| Music Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Music Room | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 |
| Storage |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Band Room |  |  |  |  | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,500 | 1,500 |
| Storage |  |  |  |  |  | 1 | 200 | 200 |  | 1 | 300 | 300 |
| Practice Rooms |  |  |  |  |  | 2 | 100 | 200 |  | 2 | 100 | 200 |
| Auditorium | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  |
| Music | 1 |  |  | 1,500 | 2 |  |  | 3,100 | 2 |  |  | 3,500 |

## Technology Education Space Requirements

| Tech Ed Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Tech Ed Lab | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 | 2 | 2 | 1,200 | 2,400 |
| Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 2 | 200 | 400 |
| Tech Ed Sub-Total | 1 |  |  | 1,400 | 1 |  |  | 1,400 | 2 |  |  | 2,800 |

Physical Education Space Requirements

| Physical Education Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Gym | 1 | 1 | 7,500 | 7,500 | 2 | 1 | 8,500 | 8,500 | 2 | 1 | 8,500 | 8,500 |
| Storage |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Shower/ Locker Room |  | 2 | 1,000 | 2,000 |  | 2 | 1,000 | 2,000 |  | 2 | 1,200 | 2,400 |
| Fitness Lab/Classroom |  |  |  |  |  |  |  |  | 1 | 1 | 1,000 | 1,000 |
| Adaptive PE |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| After School Storage |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Outdoor Athletic Equipment Storage |  | 1 | 750 | 750 |  | 1 | 1,000 | 1,000 |  | 1 | 1,000 | 1,000 |
| Physical Education Sub-Total | 1 |  |  | 11,250 | 2 |  |  | 12,500 | 3 |  |  | 13,900 |

## Administration Space Requirements

| Welcome Center Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Welcome Center/ Admin |  |  |  |  |  |  |  |  |  |  |  |  |
| Reception Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |
| Secretarial Area (Combined w/ reception) |  | 0 | 80 | 0 |  | 1 | 120 | 120 |  | 0 | 80 | 0 |
| Student Waiting Area |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Principal's Office |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Asst. Principal's Office |  | 1 | 150 | 150 |  | 1 | 150 | 150 |  |  |  |  |
| Conference Room |  | 2 | 300 | 600 |  | 2 | 300 | 600 |  | 1 | 300 | 300 |
| Counselor's Office |  | 2 | 120 | 240 |  | 3 | 120 | 360 |  |  |  |  |
| Intake/Pre-Assessment Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Mail/ Work/Copy/Lounge Room |  | 1 | 400 | 400 |  | 1 | 600 | 600 |  | 1 | 800 | 800 |
| Administrative Storage |  | 1 | 150 | 150 |  | 1 | 150 | 150 |  | 1 | 150 | 150 |
| Health Clinic |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |
| Additional Offices |  | 2 | 120 | 240 |  | 3 | 120 | 360 |  |  |  |  |
| Sub Total | 0 |  |  | 3,430 | 0 |  |  | 3,990 | 0 |  |  | 2,900 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| House Plan- Decentralized Administration |  |  |  |  |  |  |  |  |  |  |  |  |
| Secretarial Area |  |  |  |  |  |  |  |  |  | 1 | 80 | 80 |
| Asst. Principal's Office |  |  |  |  |  |  |  |  |  | 1 | 150 | 150 |
| Conference Room |  |  |  |  |  |  |  |  |  | 1 | 200 | 200 |
| Counselor's Office |  |  |  |  |  |  |  |  |  | 1 | 120 | 120 |
| Storage/Work Area |  |  |  |  |  |  |  |  |  | 1 | 150 | 150 |
| Additional Offices |  |  |  |  |  |  |  |  |  | 1 | 120 | 120 |
| Sub Total | 0 |  |  | 0 | 0 |  |  | 0 | 0 |  |  | 820 |
| Number of House Decentralized Office Areas |  |  |  | 0 |  |  |  | 0 |  |  |  | 3 |
| Sub Total Decentralized/ Houses |  |  |  | 0 |  |  |  | 0 |  |  |  | 2,460 |
| Total Administration |  |  |  | 3,430 |  |  |  | 3,990 |  |  |  | 5,360 |

## Food Service Space Requirements

| Cafeteria/ Food Service Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Kitchen, warming/serving only |  | 1 | 2,000 | 2,000 |  | 1 | 2,500 | 2,500 |  | 1 | 2,500 | 2,500 |
| Preparation Area |  |  |  |  |  |  |  |  |  |  |  |  |
| Serving Area |  |  |  |  |  |  |  |  |  |  |  |  |
| Dry Food Storage |  |  |  |  |  |  |  |  |  |  |  |  |
| Cooler/Freezer |  |  |  |  |  |  |  |  |  |  |  |  |
| Ware Washing |  |  |  |  |  |  |  |  |  |  |  |  |
| Kitchen Mgr Office |  |  |  |  |  |  |  |  |  |  |  |  |
| Restroom |  |  |  |  |  |  |  |  |  |  |  |  |
| Lockers |  |  |  |  |  |  |  |  |  |  |  |  |
| Multipurpose Room (with dividers)* |  | 1 | 2,000 | 2,000 |  | 1 | 3,000 | 3,000 |  | 1 | 3,500 | 3,500 |
| Table \& Chair Storage |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Stage Area |  | 1 | 600 | 600 |  | 1 | 600 | 600 |  | 1 | 800 | 800 |
| Auditorium Seating |  | 1 | 1,500 | 1,500 |  | 1 | 2,000 | 2,000 |  | 1 | 2,500 | 2,500 |
| Exterior Patio/Covered Eating Area |  | 1 | 2,000 | Outside |  | 1 | 3,000 | Outside |  | 1 | 3,000 | Outside |
| Food Service Sub-Total | 0 |  |  | 6,350 | 0 |  |  | 8,350 | 0 |  |  | 9,550 |

* Suggest a layout which there is divider wall between the auditorium and multipurpose room to allow for more seating in the auditorium


## Custodial / Maintenance Space Requirements

| Custodial Spaces | Proposed Spaces for 600 Students |  |  |  | Proposed Spaces for 900 Students |  |  |  | Proposed Spaces for 1,200 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Receiving/Storage |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |
| Maintenance/ Repair Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |
| Office/Planning/ Meeting Area |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Custodial Hopper Room [throughout school] |  | 6 | 100 | 600 |  | 8 | 100 | 800 |  | 10 | 100 | 1,000 |
| Mechanical Rooms \& Restrooms | See Building Service in Sum Chart |  |  |  | See Building Service in Sum Chart |  |  |  | See Building Service in Sum Chart |  |  |  |
| Loading Dock |  |  | outside |  |  |  | outside |  |  |  | outside |  |
| Custodial Sub-Total | 0 |  |  | 1,800 | 0 |  |  | 2,000 | 0 |  |  | 2,200 |

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## Total Building Space Requirements

The following table lists the total teaching spaces and square footage from the entire building.

| Elementary School Spaces | Suggested Spaces for 400 Students |  | Suggested Spaces for 550 Students |  | Suggested Spaces for 700 Students |  | Suggested Spaces for 850 Students |  | Suggested Spaces for 1,000 Students |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS* | Total SF | TS | Total SF | TS | Total SF | TS | Total SF | TS | Total SF |
| Core Academics | 20 | 23,650 | 26 | 31,650 | 33 | 41,400 | 39 | 49,200 | 46 | 58,350 |
| Special Needs | 1 | 2,130 | 2 | 3,310 | 3 | 4,490 | 4 | 5,670 | 5 | 6,850 |
| Media Center | 0 | 3,250 | 0 | 3,250 | 0 | 3,750 | 0 | 3,850 | 0 | 4,350 |
| Visual Art/Wet Lab | 0 | 0 | 1 | 1,200 | 1 | 1,200 | 1 | 1,200 | 2 | 2,400 |
| Music | 1 | 1,400 | 1 | 1,400 | 1 | 1,400 | 2 | 2,600 | 2 | 2,600 |
| Tech Ed/Computer | 1 | 1,200 | 1 | 1,200 | 1 | 1,200 | 2 | 2,400 | 2 | 2,400 |
| Welcome Center | 0 | 2,210 | 0 | 2,580 | 0 | 3,320 | 0 | 3,440 | 0 | 3,560 |
| Food Service | 0 | 4,800 | 0 | 7,050 | 0 | 7,050 | 0 | 8,100 | 0 | 8,100 |
| Custodial | 0 | 1,400 | 0 | 1,600 | 0 | 1,800 | 0 | 2,200 | 0 | 2,400 |
| Sub Total |  | 40,040 |  | 53,240 |  | 65,610 |  | 78,660 |  | 91,010 |
| Building Services, Circulation, etc. | 20.0\% | 8,008 | 20.0\% | 10,648 | 20.0\% | 13,122 | 20.0\% | 15,732 | 20.0\% | 18,202 |
| Total | 23 | 48,048 | 31 | 63,888 | 39 | 78,732 | 48 | 94,392 | 57 | 109,212 |



## Overall Building Drawing: 550 Students



## Overall Building Drawing: $\mathbf{7 0 0}$ Students



## Overall Building Drawing: 850 Students



[^0]
## Overall Building Drawing: 1,000 Students



## Program Area Space Requirements

## Core Academics Space Requirements

| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Pre-Kindergarten Learning Lab/Classroom w/ Toilet | 2 | 2 | 1,350 | 2,700 | 2 | 2 | 1,350 | 2,700 | 3 | 3 | 1,350 | 4,050 | 3 | 3 | 1,350 | 4,050 | 4 | 4 | 1,350 | 5,400 |
| Kindergarten Learning Lab/Classroom w/ Toilet | 3 | 3 | 1,350 | 4,050 | 4 | 4 | 1,350 | 5,400 | 5 | 5 | 1,350 | 6,750 | 6 | 6 | 1,350 | 8,100 | 7 | 7 | 1,350 | 9,450 |
| Sub Total | 5 |  |  | 6,750 | 6 |  |  | 8,100 | 8 |  |  | 10,800 | 9 |  |  | 12,150 | 11 |  |  | 14,850 |


| Core Academic Grade Level Cluster/ House Plan:Space |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Learning Lab/ Classroom | 3 | 3 | 960 | 2,880 | 4 | 4 | 960 | 3,840 | 5 | 5 | 960 | 4,800 | 6 | 6 | 960 | 5,760 | 7 | 7 | 960 | 6,720 |
| Sub Total | 3 |  |  | 2,880 | 4 |  |  | 3,840 | 5 |  |  | 4,800 | 6 |  |  | 5,760 | 7 |  |  | 6,720 |
| Number of Pods/ Clusters |  |  |  | 5 |  |  |  | 5 |  |  |  | 5 |  |  |  | 5 |  |  |  | 5 |
| Total | 15 |  |  | 14,400 | 20 |  |  | 19,200 | 25 |  |  | 24,000 | 30 |  |  | 28,800 | 35 |  |  | 33,600 |


| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Team Planning Areas |  | 1 | 300 | 300 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |
| Restrooms |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  | 2 | 250 | 500 |
| Sub Total |  |  |  | 1,250 |  |  |  | 1,450 |  |  |  | 1,650 |  |  |  | 1,650 |  |  |  | 1,650 |
| Number of Pods/ Clusters |  |  |  | 2 |  |  |  | 3 |  |  |  | 4 |  |  |  | 5 |  |  |  | 6 |
| Total |  |  |  | 2,500 |  |  |  | 4,350 |  |  |  | 6,600 |  |  |  | 8,250 |  |  |  | 9,900 |


| Total Space for Core Academic Tables Above Added Together | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| PreK-K Learning Lab/Classroom w/ Toilet | 5 | 5 | 1,350 | 6,750 | 6 | 6 | 1,350 | 8,100 | 8 | 8 | 1,350 | 10,800 | 9 | 9 | 1,350 | 12,150 | 11 | 11 | 1,350 | 14,850 |
| Learning Lab/ Classroom | 15 | 15 | 960 | 14,400 | 20 | 20 | 960 | 19,200 | 25 | 25 | 960 | 24,000 | 30 | 30 | 960 | 28,800 | 35 | 35 | 960 | 33,600 |
| Team Planning Areas \& Storage |  | 2 | 300 | 600 |  | 3 | 500 | 1,500 |  | 4 | 700 | 2,800 |  | 5 | 700 | 3,500 |  | 6 | 700 | 4,200 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 2 | 450 | 900 |  | 3 | 450 | 1,350 |  | 4 | 450 | 1,800 |  | 5 | 450 | 2,250 |  | 6 | 450 | 2,700 |
| Restrooms |  | 4 | 250 | 1,000 |  | 6 | 250 | 1,500 |  | 8 | 250 | 2,000 |  | 10 | 250 | 2,500 |  | 12 | 250 | 3,000 |
| Core Academic Sub-Total | 20 |  |  | 23,650 | 26 |  |  | 31,650 | 33 |  |  | 41,400 | 39 |  |  | 49,200 | 46 |  |  | 58,350 |

## Core Academics Space Requirements [continued]

Suggested Alternate: Uniform size Pods/ Clusters
Each Pod is basically the same, the only variation would be the number of Pods based on Enrollment

| Sample Pod |  | Pod/ Cluster |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total |  |
| Learning Lab/Classroom | 4 | 4 | 960 | 3,840 |  |
| Sub Total | $\mathbf{4}$ |  |  | $\mathbf{3 , 8 4 0}$ |  |
| Number of Pods |  |  |  | $\mathbf{2}$ |  |
| Total for 2 Pods | $\mathbf{8}$ |  |  | $\mathbf{7 , 6 8 0}$ |  |

Each Pod would support approx 90 Students

# Shared Between Each Grade Level Pod/ Cluster 

Sample Area Shared Between 2 Pods

| Team Planning Areas \& Storage | TS | Quantity | SF | Total |
| :--- | :---: | :---: | :---: | :---: |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 500 | 500 |
| Restrooms |  | 1 | 450 | 450 |
| Sub Total |  | 2 | 250 | 500 |
|  |  |  |  | $\mathbf{9 5 0}$ |


| Total Space for 1 Cluster [two pods] | Suggested Spaces |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total |
| Learning Lab/Classroom | 8 | 8 | 960 | 7,680 |
| Team Planning Areas \& Storage |  | 1 | 500 | 500 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 450 | 450 |
| Rest Rooms |  | 2 | 250 | 500 |
| Cluster Total | $\mathbf{8}$ |  |  | $\mathbf{8 , 6 3 0}$ |

Each Cluster would support approximately 180 students

## Special Needs Space Requirements

| Special Needs Spaces | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Self-Contained Classroom* [SDC: MS, M, OI] | 1 | 1 | 1,080 | 1,080 | 2 | 2 | 1,080 | 2,160 | 3 | 3 | 1,080 | 3,240 | 4 | 4 | 1,080 | 4,320 | 5 | 5 | 1,080 | 5,400 |
| Restroom/Shower |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 2 | 100 | 200 |  | 2 | 100 | 200 |
| Time-Out Room/Additional Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Student Services Offices |  | 2 | 100 | 200 |  | 3 | 100 | 300 |  | 4 | 100 | 400 |  | 4 | 100 | 400 |  | 5 | 100 | 500 |
| Resource/Tutorial Room [RSP, SDC: ED, MM, DHH] | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  |
| Conference Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Adaptive PE |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  |  | 300 | 300 |  | 1 | 300 | 300 |
| Special Needs Sub-Total | 1 |  |  | 2,130 | 2 |  |  | 3,310 | 3 |  |  | 4,490 | 4 |  |  | 5,670 | 5 |  |  | 6,850 |

*classrooms divided by moveable walls; can be turned into larger room so two rooms can be combined
N•

## Media Center Space Requirements

| Media Center Spaces | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Library/Media Center Main Room |  | I | 1,500 | 1,500 |  | I | 1,500 | 1,500 |  |  | 2,000 | 2,000 |  |  | 2,000 | 2,000 |  |  | 2,500 | 2,500 |
| Multi-Media Workroom/"Kinko's for Kids" |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |
| Media Specialist/Clerk Office |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Textbook Storage |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| Telecommunications Room |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| A/V Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Media Center Sub-Total | 0 |  |  | 3,250 | 0 |  |  | 3,250 | 0 |  |  | 3,750 | 0 |  |  | 3,850 | 0 |  |  | 4,350 |

Wet Lab [Science \& Art] Space Requirements

| Wet Lab[Art \& Science] Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for$\mathbf{1 , 0 0 0}$ Students 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Tota | TS | Quantity | SF | Total | S | Quantity | SF | Total |
| Wet Lab [Art \& Science] | 0 | 0 | 1,100 | 0 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 2 | 2 | 1,100 | 2,200 |
| Storage |  | 0 | 100 | 0 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 10 |  | 2 | 10 | 200 |
| Visual Art/ Wet Lab Sub-Total | 0 |  |  | 0 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 2 |  |  | 2,400 |

## Music Space Requirements

| Music Spaces | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Music Room | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 | 1 | 1 | 1,200 | 1,200 | 2 | 2 | 1,200 | 2,400 | 2 | 2 | 1,200 | 2,400 |
| Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Auditorium | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  |
| Music | 1 |  |  | 1,400 | 1 |  |  | 1,400 | 1 |  |  | 1,400 |  |  |  |  | 2 |  |  | 2,600 |

## Technology Education Space Requirements

| Tech Ed/ Computer Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Tota | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Tech Ed Lab | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 2 | 2 | 1,100 | 2,200 | 2 | 2 | 1,100 | 2,200 |
| Storage |  | 1 | 100 | 100 |  | 1 | 100 | 10 |  | 1 | 100 | 10 |  | 2 | 100 | 20 |  | 2 |  | 20 |
| Tech Ed Sub-Total | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 2 |  |  | 2,400 | 2 |  |  | 2,400 |

## Administration Space Requirements

| Welcome Center Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Welcome Center/ Admin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reception Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |
| Secretarial Area (Combined w/ reception) |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |
| Principal's Office |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Asst. Principal's Office |  | 0 | 120 | 0 |  | 0 | 120 | 0 |  | 1 | 120 | 120 |  | 1 | 120 | 120 |  | 1 | 120 | 120 |
| Conference Room |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Counselor's Office |  | 1 | 120 | 120 |  | 1 | 120 | 120 |  | 2 | 120 | 240 |  | 2 | 120 | 240 |  | 3 | 120 | 360 |
| Intake/Pre-Assessment Room |  | 0 | 250 | 0 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Mail/Work/Copy Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| Administrative Storage |  | 1 | 150 | 150 |  | 1 | 150 | 150 |  | 2 | 150 | 300 |  | 2 | 150 | 300 |  | 2 | 150 | 300 |
| Health Clinic |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |
| Additional Offices |  | 2 | 120 | 240 |  | 3 | 120 | 360 |  | 3 | 120 | 360 |  | 4 | 120 | 480 |  | 4 | 120 | 480 |
| Total | 0 |  |  | 2,210 | 0 |  |  | 2,580 | 0 |  |  | 3,320 | 0 |  |  | 3,440 | 0 |  |  | 3,560 |

## Food Service Space Requirements



* Suggest a layout which there is divider wall between the auditorium and multipurpose room

Custodial / Maintenance Space Requirements

| Custodial Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Receiving/Storage |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  |  | 700 | 700 |
| Maintenance/Repair Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |
| Office/Planning/Meeting Area |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Custodial Hopper Room [throughout school] |  | 2 | 100 | 200 |  | 4 | 100 | 400 |  | 6 | 100 | 600 |  | 8 | 100 | 800 |  | 10 | 100 | 1,000 |
| Mechanical Rooms \& Restrooms | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  |
| Loading Dock |  |  | outside |  |  |  | outside |  |  |  | outside |  |  |  | outside |  |  |  | outside |  |
| Custodial Sub-Total | 0 |  |  | 1,400 | 0 |  |  | 1,600 | 0 |  |  | 1,800 | 0 |  |  | 2,200 | 0 |  |  | 2,400 |

## Quantity Standards for Typical Spaces

The following tables list standards for typical spaces in an elementary school building. These tables give standard quantities for typical offices, conference rooms, mail/work/copy rooms, as well as typical learning labs/classrooms and kindergarten and pre-kindergarten rooms. These tables can also be found later in this document, within the particular program area with which they are associated. Refer to the program area section for special design requests.


| STANDARDS FOR TYPICAL CONFERENCE ROOMS |  |  |  |
| :---: | :---: | :---: | :---: |
| See Program Area Descriptions for other items |  |  |  |
| FURNITURE/EQUIPMENT | QTY | MECHANICAL | QTY |
| Modular conf table | 1 | Air Conditioning | Yes |
| Conference chairs | $1 / 25 \mathrm{SF}$ |  |  |
| Credenza, rooms > 200SF | 1 |  |  |
| Marker board | 8 LF |  |  |
| Clg mtd data projector, rooms > 150SF | 1 | ELECTRICAL | QTY |
| Drop down projection screen, rooms > 150SF | 1 | Duplex outlet | 5' oc |
| Bulletin board | 4 LF | Quad outlet @ ea. data port | 1 |
| Clock | 1 |  |  |
|  |  | PLUMBING | QTY |
|  |  | No special requirements |  |
|  |  |  |  |



STANDARDS FOR TYPICAL MAIL/WORK/C
See Program Area Descriptions for other items

| FURNITURE/EQUIPMENT | QTY |
| :--- | :--- |


| FURNITURE/EQUIPMENT | QTY |
| :--- | :---: |
| Work tables | 2 |
| Countertop over base cabinets | 16 LF |
| Overhead cabinets | 8 LF |
| Chairs | 2 |
| Computer workstations | 1 |
| Shelving | 8 LF |
| Locking storage cabinet | 1 |
| Printer | 1 |
| Scanner | 1 |
| Fax machine | 1 |
| Copier w/ sorter | 1 |
| Marker board | 8 LF |
|  |  |


See Program Area Descriptions for other items

| FURNITURE/EQUIPMENT | QTY |
| :--- | :---: |
| Student work tables, 2 students each | 13 |
| Student chairs | 26 |
| Countertop over base cabinets | 4 LF |
| Overhead cabinets | 4 LF |
| Marker board | 16 LF |
| Bulletin board | 24 LF |
| Shelving | 24 LF |
| Locking storage cabinet | 6 LF |
| AlO (All in One) Device | 1 |
| Mobile bookcases, 3' long | 2 |
| Elevated pull down screen | 1 |
| Maximize bulletin board surfaces |  |$.$|  |
| :--- | l



## STANDARDS FOR TYPICAL KINDERGARTEN, PRE-KINDER, SELF-CONTAINED

| See Program Area Descriptions for other items |
| :--- |
| FURNITURE/EQUIPMENT QTY <br> Student work tables, 24 students each 13 <br> Student chairs 26 <br> Countertop over base cabinets 4 LF <br> Overhead cabinets 4 LF <br> Marker board 16 LF <br> Bulletin board 24 LF <br> Shelving 24 LF <br> Locking storage cabinet 6 LF <br> AlO (All in One) Device 1 <br> Pull down screen 1 <br> Elevated pull down screen 1 <br> Maximize bulletin board surfaces  |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Voice, data, video outlets at teacher desk | 1 |
| 6 data drops with double, triple, or quad CNOs <br> (Communications Network Outlets) | 6 |
| 2 data drops at teacher desk area | 2 |
| Data drop dedicated to wireless, high on wall | 1 |
| Wireless Internet access | Yes |


| MECHANICAL | QTY |
| :--- | :---: |
| Air-conditioning |  |
| Operable windows |  |


| ELECTRICAL | QTY |
| :--- | :---: |
| Duplex outlet | 1 per wall |
| Quad outlet @ ea. data port | 1 |
| Front row of light, dimmable |  |
| PLUMBING | QTY |
| Hot \& cold water for sink | 1 |
| Drinking fountain | 1 |
| Restroom in each classroom | 1 |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Analog telephone | 1 |
| Intercom | Yes |
| Smartboard w/ integral LCD projector | 1 |
| Audio Enhancement | 1 system |
| Laptop computers with carts, shared | K:26; PK: 16 |



## Core Academics

## Introduction

It is the goal of the Core Academic Area to provide opportunities to students to foster mastery of basic skills in reading, writing, mathematics, science, citizenship, health, technology, and other content areas; to experience and enhance their awareness and understanding of multi-cultural values, beliefs, and other aspects of society; and to become involved in inquiry-based learning expressed by hands-on, minds-on, experiences.

The Core Academic Area is composed of spaces associated with typical academic content areas such as English, Mathematics, World Language, Science, and Social Studies. Spaces include classrooms, teacher preparation areas, restrooms, and material storage.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

## Overview

The Core Academic Area concept will be organized to facilitate an interdisciplinary approach to instruction. Characteristics of this area are:

- Ability to organize space by teams
- Instruction and facility space to encourage team and student communication
- A flexible learning environment, adaptable to change and supportive of different program delivery and organizational patterns including adequate space to support the work of teams and production of student work, and to encourage the integration of curricula

The concepts that will give direction to this interdisciplinary approach are:

- Integrated curricula
- Performance objectives for students
- Individualized/intra-dependent learning environments
- Performance assessment
- Decentralized/shared decision-making
- Coordination of services provided to students

English Goals: To accommodate the special needs and abilities of all students, the English program will provide an interesting and challenging interdisciplinary approach to:

- Lifelong reading
- Oral communication skills
- Written competency

Mathematics Goals: The goal of the math curriculum is to ensure that all students will:

- Learn to use technology efficiently and effectively
- Learn beginning problem solving and critical thinking skills
- Incorporate teamwork skills
- Communicate basic math concepts
- Learn to relate basic math concepts to real world situations

Science Goals: The goal of the science curriculum is to ensure that all students:

- Have a concern for their environment
- Learn problem-solving skills
- Learn through hands-on experiments, inquiry, observations and comparisons

Social Studies Goals: The goal of the social studies curriculum is to ensure that all students:

- Have a concern for their community
- Will have a multi-cultural awareness
- Begin to learn critical thinking skills

In addition to the traditional large and small group instruction, many varied activities take place in the various Core Academic learning areas:

- Writing/composing
- Reading
- Role playing - skits, acting out situations
- Hands-on projects and activities - individuals and groups
- Oral presentations
- Interactive activities - room-to-room, school-toschool, class-to-community
- Team teaching among all the disciplines
- Group and teamwork activities


## Space Requirements

The chart below lays out each space in the Core Academic area for each size school.


| Space | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  | Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Team Planning Areas |  | 1 | 300 | 300 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |  |  | 700 | 700 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |
| Restrooms |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  | 2 | 250 | 500 |  |  | 250 | 500 |
| Sub Total |  |  |  | 1,250 |  |  |  | 1,450 |  |  |  | 1,650 |  |  |  | 1,650 |  |  |  | 1,650 |
| Number of Pods/ Clusters |  |  |  | 2 |  |  |  | 3 |  |  |  | 4 |  |  |  | 5 |  |  |  | 6 |
| Total |  |  |  | 2,500 |  |  |  | 4,350 |  |  |  | 6,600 |  |  |  | 8,250 |  |  |  | 9,900 |


| Total Space for Core Academic Tables Above Added Together | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| PreK-K Learning Lab/Classroom w/ Toilet | 5 | 5 | 1,350 | 6,750 | 6 | 6 | 1,350 | 8,100 | 8 | 8 | 1,350 | 10,800 | 9 | 9 | 1,350 | 12,150 | 11 | 11 | 1,350 | 14,850 |
| Learning Lab/Classroom | 15 | 15 | 960 | 14,400 | 20 | 20 | 960 | 19,200 | 25 | 25 | 960 | 24,000 | 30 | 30 | 960 | 28,800 | 35 | 35 | 960 | 33,600 |
| Team Planning Areas \& Storage |  | 2 | 300 | 600 |  | 3 | 500 | 1,500 |  | 4 | 700 | 2,800 |  | 5 | 700 | 3,500 |  | 6 | 700 | 4,200 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 2 | 450 | 900 |  | 3 | 450 | 1,350 |  | 4 | 450 | 1,800 |  | 5 | 450 | 2,250 |  |  | 450 | 2,700 |
| Restrooms |  | 4 | 250 | 1,000 |  | 6 | 250 | 1,500 |  | 8 | 250 | 2,000 |  | 10 | 250 | 2,500 |  | 12 | 250 | 3,000 |
| Core Academic Sub-Total | 20 |  |  | 23,650 | 26 |  |  | 31,650 | 33 |  |  | 41,400 | 39 |  |  | 49,200 | 46 |  |  | 58,350 |

## Core Academics Space Requirements [continued]

## Suggested Alternate: Uniform size Pods/ Clusters

 Each Pod is basically the same, the only variation would be the number of Pods based on Enrollment| Sample Pod | Pod/ Cluster |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total |
| Learning Lab/Classroom | 4 | 4 | 960 | 3,840 |
| Sub Total | $\mathbf{4}$ |  |  | $\mathbf{3 , 8 4 0}$ |
| Number of Pods |  |  |  | $\mathbf{2}$ |
| Total for 2 Pods | $\mathbf{8}$ |  |  | $\mathbf{7 , 6 8 0}$ |

Each Pod would support approx 90 Students

| Shared Between Each Grade Level Pod/ Cluster |
| :--- |
| Sample Area Shared Between 2 Pods |$|$| Pod/ Cluster |  |  |  |
| :---: | :---: | :---: | :---: |
| Team Planning Areas \& Storage | Quantity | SF | Total |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 500 |
| Restrooms |  | 1 | 500 |
| Sub Total |  | 2 | 250 |


| Total Space for 1 Cluster [two pods] | Suggested Spaces |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total |
|  | 8 | 8 | 960 | 7,680 |
| Team Planning Areas \& Storage |  | 1 | 500 | 500 |
| Resource Room [RSP, SDC: ED, MM, DHH] |  | 1 | 450 | 450 |
| Rest Rooms |  | 2 | 250 | 500 |
| Cluster Total | $\mathbf{8}$ |  |  | $\mathbf{8 , 6 3 0}$ |
| Eanyyy |  |  |  |  |

[^1]
## Spatial Relationships

The Core Academic Program Area should be located adjacent to all other Program Areas, specifically, Special Needs, the Media Center, Physical Education, and Visual Arts. Drawings are shown for each size school.


400 Student School


550 Student School


700 Student School


850 Student School

## 1,000 Student School




Long Beach Unified School District Elementary School Educational Specifications

Future Potential Addition for 100 Students

| Space |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | Pod/Cluster |  |  |  |
| Learning Lab/Classroom | 3 | Quantity | SF | Total |
| Team Planning Areas/Faculty Lounge |  | 1 | 960 | 2,880 |
| Instructional Material Storage |  | 1 | 150 | 250 |
| Resource Room w/divider wall |  | 1 | 960 | 150 |
| Small Group Room |  | 1 | 150 | 150 |
| Total |  |  |  | $\mathbf{4 , 3 9 0}$ |

Long Beach Unified School District
Elementary School Educational Specifications

| STANDARDS FOR TYPICAL LEARNING LABSI |
| :--- |
| See Program Area Descriptions for other items <br> FURNITURE/EQUIPMENT <br> Student work tables, 2 students each <br> Student chairs <br> Countertop over base cabinets <br> Overhead cabinets <br> Marker board <br> Bulletin board <br> Shelving <br> Locking storage cabinet <br> AIO (All in One) Device <br> Mobile bookcases, 3' long <br> Elevated pull down screen <br> Maximize bulletin board surfaces |


| TECHNOLOGY | QTY | TECHNOLOGY | QTY |
| :---: | :---: | :---: | :---: |
| Voice, data, video outlets at teacher desk | 1 | Analog telephone | 1 |
| 6 data drops with double, triple, or quad CNOs (Communications Network Outlets) | 6 | Intercom | Yes |
| 2 data drops at teacher desk area | 2 | Smartboard w/ integral LCD projector | 1 |
| Data drop dedicated to wireless, high on wall | 1 | Audio Enhancement | 1 system |
| Wireless Internet access | Yes | Laptop computers with carts, shared | 26 |

STANDARDS FOR TYPICAL KINDERGARTEN, PRE-KINDER, SELF-CONTAINED
See Program Area Descriptions for other items

| FURNITURE/EQUIPMENT | QTY |
| :--- | :---: |
| Student work tables, 24 students each | 13 |
| Student chairs | 26 |
| Countertop over base cabinets | 4 LF |
| Overhead cabinets | 4 LF |
| Marker board | 16 LF |
| Bulletin board | 24 LF |
| Shelving | 24 LF |
| Locking storage cabinet | 6 LF |
| AlO (All in One) Device | 1 |
| Pull down screen | 1 |
| Elevated pull down screen | 1 |
| Maximize bulletin board surfaces |  |


| MECHANICAL | QTY |
| :--- | :---: |
| Air-conditioning |  |
| Operable windows |  |


| ELECTRICAL | QTY |
| :--- | :---: |
| Duplex outlet | 1 per wall |
| Quad outlet @ ea. data port | 1 |
| Front row of light, dimmable |  |
| PLUMBING | QTY |
| Hot \& cold water for sink | 1 |
| Drinking fountain | 1 |
| Restroom in each classroom | 1 |



| TECHNOLOGY | QTY |
| :--- | :---: |
| Analog telephone | 1 |
| Intercom | Yes |
| Smartboard w/ integral LCD projector | 1 |
| Audio Enhancement | 1 system |
| Laptop computers with carts, shared | $\mathrm{K}: 26 ;$ PK: 16 |



| STANDARDS FOR TYPICAL MAIL/WORK/COPY ROOMS |  |  |  |
| :---: | :---: | :---: | :---: |
| See Program Area Descriptions for other items |  |  |  |
| FURNITURE/EQUIPMENT | QTY | MECHANICAL | QTY |
| Work tables | 2 | No special requirements |  |
| Countertop over base cabinets | 16 LF |  |  |
| Overhead cabinets | 8 LF |  |  |
| Chairs | 2 |  |  |
| Computer workstations | 1 | ELECTRICAL | QTY |
| Shelving | 8 LF | Duplex outlet | 5 oc |
| Locking storage cabinet | 1 | Quad outlet @ ea. data port | 1 |
| Printer | 1 |  |  |
| Scanner | 1 |  |  |
| Fax machine | 1 | PLUMBING | QTY |
| Copier w/ sorter | 1 | Hot \& cold water for sink | 1 |
| Marker board | 8 LF |  |  |
|  |  | TECHNOLOGY | QTY |
|  |  | Data port and/or access to wireless | 2 |
|  |  | Telephone | 1 |
|  |  | Intercom through phone handset | Yes |
|  |  |  |  |


sample photo：does not represent LBUSD facilities

## Learning Labs／Classrooms

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．


＊Access to voice，video，data ports， and electrical outlets
＊Intercom
＊Teacher data port separate from
student data ports
LCD projector with pull－down screen

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


業 Door with windows（no blinds）
数 Windows with blinds
黄 View panel at door
畨 Windows to corridor and／or Learning
Community
＊Double－paned and tinted

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space

＊Flexible or multiple display surfaces
Portable closets／cabinets
Bookcases
者 Pocket Doors－ 5 ft wide space
－Age appropriate and adjustable
furniture
－Bulletin boards and white magnetic
boards
＊Corkboard on cupboard doors
＊Kidney／teacher worktable for small group instruction

## Special Considerations

The following table reflects design considerations for the space．


黄 Individual student shelves for books， independent reading material
（\＃Baskets／boxes
啬 Folding doors that can be used for display
＊Space for hanging students＇coats and
backpacks
＊Vinyl Tile Flooring
＊Acoustics to block noise from airports， roads，traffic，etc．

## Team Planning \＆Storage

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．

＊Teacher planning and collaboration
＊Team meetings
＊Scheduling of appointments
＊Record keeping
眷 Preparation of teaching materials
y 券 Lunch
： －Copying
Collating
．Storage of team materials
Storage of teaching materials


汬 Teachers
＊Staff
党 Aides
＊Volunteers

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．


## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


View panel at door

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space
－Lockable storage cabinets
＊Flexible surfaces
＊Storage cabinets
虽 Desks and chairs
＊Round tables for conferencing and lunch
＊Casework to include：
－Countertop with sink，base and wall cabinets
－Lockable storage cabinets
－Wall shelving
Copier
Binding equipment
Fax machine and printers
Laminating machine
Paper storage，shredder，and cutter
＊Tack board／marker board
黄 Clock
＊Abundant shelving
Storage bins

## Special Considerations

The following table reflects design considerations for the space．

汬 Adequate counter－top space for small appliances
䡒 Acoustical privacy
＊Small appliances（coffee，refrigerator， microwave）
＊Telephone with outside lines

## Resource Room［RSP，SDC：ED，MM，DHH］

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．

No special requirements

Sink

## Building System Requirements

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


One－way glass for observation
＊Visual access from the classroom or from the corridor
Same as Learning Lab／Classroom

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space

＊Lockable storage cabinets
畨 Flexible surfaces
＊Abundant shelving
＊Flexible or multiple display surfaces
汬 Modular，group－able tables
＊Shelving unit against walls
＊Same as Learning Lab／Classroom

## Special Considerations

The following table reflects design considerations for the space．
＊Spill and stain－resistant flooring
＊Handicapped accessible and accessible to
large wheelchairs
眷 If possible accessible to Team Planning room
黄 Adjustable cubicles
＊Acoustical privacy

## Pre-K and Kindergarten Classrooms

Activities and Persons
The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


泪 Students

* Teachers
* Parents
* Volunteers
* Other Staff


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.



## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door: view panel
* Windows: operable, with blinds to allow
controlled natural lighting


## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．
＊Casework to include：
－Countertop with sink，base，and wall cabinets
－ 4 tall storage cabinets with shelving，drawers and lockable doors
－Adjustable height bookshelves
－Large，shallow drawers for poster board and chart paper
－File Cabinets
㱷 Fixed cubbies for student storage
＊Magnetic marker board on primary and secondary teaching wall
＊Tack board at each end of marker board on primary wall
黄 Tack strip above marker board
＊Networked computers
眷 Portable sand table
＊Puppet theater
－Kidney shaped table
Lego table
Low projects table with rails
＊Chart stand
漛 Child－sized living room furniture set
誊 Big book stand
＊Painting easel
＊Age appropriate and adjustable mobile furniture
Coat closet with closing doors and bulletin board material on outside

## Special Considerations

The following table reflects design considerations for the space．

黄 Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity
黄 Adequate storage for mats，instructional materials
＊Tile flooring
Acoustics to block noise from airports， roads，traffic，etc．

## Pre-K and Kindergarten Restrooms

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: Solid, no window; no lock

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


## Special Considerations

The following table reflects design considerations for the space.


* No special requirements



## Special Needs

## I ntroduction

The goal of the Special Education Program Area is to meet the needs of students with disabilities within the least restrictive environment, enabling them to become responsible, life-long learners. To meet students' needs, the Special Education Program provides instruction within the general education environment through an inclusion process as well as separate classrooms for those students who need a self-contained environment.

## Overview

For Long Beach Unified School District, the Special Needs Program Area includes spaces for self-contained [MS, M, OI] and mainstreamed students as well as support spaces such as a resource/tutorial room [RSP, SDC: MM, ED, DHH], conference room, offices and material storage may be shared with others.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

Long Beach also has self-contained classrooms for their learning disabled students who are on a diploma track [departmentalized].

Long Beach also offers "outsource schools" for students who cannot succeed on a comprehensive campus. Extra spaces are provided in these schools.

## Special Needs Categories

## RSP－Resource Specialist Program

## ＊Class size：5－6

＊Tutorial
＊Curriculum－Strategies for Success［learning strategies］
埥 Students participate in five general education classes

## SDC－Special Day Class

## M／M：Mild／Moderate Learning Disabled

黄 Class size： 13
4 Departmentalized
＊Diploma or certificate track students
＊Some students in elective general education classes

## E／D：Emotionally Disturbed

㬐 Class size： 13
＊Diploma or certificate track students

## M／S：Moderate Severe

＊Class size： 9
＊Certificate；life skills
黄 Self－contained

## O／I：Orthopedically I mpaired

黄 Class size： 9
＊Diploma or certificate track students
漛 Self－contained

## DHH：Deaf／Hard of Hearing

＊Class size： 9
＊Interpreters
墙 Diploma or certificate track students
＊Some self－contained and some mainstreamed

## ＂M＂Class

墦 Class size： 13
＊Functional academic，life skills，vocational training
黄 Certificate track students
畨 Self－contained

Long Beach Unified School District
Elementary School Educational Specifications

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the special needs area.

| Special Needs Spaces | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Self-Contained Classroom* [SDC: MS, M, OI] | 1 | 1 | 1,080 | 1,080 | 2 | 2 | 1,080 | 2,160 | 3 | 3 | 1,080 | 3,240 | 4 | 4 | 1,080 | 4,320 | 5 | 5 | 1,080 | 5,400 |
| Restroom/Shower |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 2 | 100 | 200 |  | 2 | 100 | 200 |
| Time-Out Room/Additional Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Student Services Offices |  | 2 | 100 | 200 |  | 3 | 100 | 300 |  | 4 | 100 | 400 |  | 4 | 100 | 400 |  | 5 | 100 | 500 |
| Resource/Tutorial Room [RSP, SDC: ED, MM, DHH] | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  | See Core Academic Area |  |  |  |
| Conference Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  |  |  |  |  | 1 | 250 | 250 |
| Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |
| Adaptive PE |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Special Needs Sub-Total | 1 |  |  | 2,130 | 2 |  |  | 3,310 | 3 |  |  | 4,490 | 4 |  |  | 5,670 | 5 |  |  | 6,850 |

## Spatial Relationships

The Special Education Program Area should be within adjacent to the Core Academic Program Areas, Media Center and Administration. Drawings are shown for each size school.


400 Student School


700 Student School


550 Student School


850 Student School


## 1,000 Student School



Long Beach Unified School District
Elementary School Educational Specifications
STANDARDS FOR TYPICAL KINDERGARTEN,
See Program Area Descriptions for other items

| FURNITURE/EQUIPMENT | QTY |
| :--- | :---: |
| Student work tables, 24 students each | 13 |
| Student chairs | 26 |
| Countertop over base cabinets | 4 LF |
| Overhead cabinets | 4 LF |
| Marker board | 16 LF |
| Bulletin board | 24 LF |
| Shelving | 24 LF |
| Locking storage cabinet | 6 LF |
| AlO (All in One) Device | 1 |
| Pull down screen | 1 |
| Elevated pull down screen | 1 |
| Maximize bulletin board surfaces |  |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Voice, data, video outlets at teacher desk | 1 |
| 6 data drops with double, triple, or quad CNOs <br> (Communications Network Outlets) | 6 |
| 2 data drops at teacher desk area | 2 |
| Data drop dedicated to wireless, high on wall | 1 |
| Wireless Internet access | Yes |




## Self Contained Classrooms［MS，M，OI］

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．
＊Individual，small，and large group activities
＊Storage of materials，equipment
＊Project－based learning
＊Computer－based instruction


```
    Students
    * Teachers
    * Parents
    * Volunteers
    Other staff
```


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．

Moveable wall to divide room

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


漛 Door：view panel，outside accessibility，wheelchair accessible with push button control
＊Windows：operable，with blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．
＊Casework to include：
－Countertop with sink，base，and wall cabinets
－ 4 tall storage cabinets with shelving，drawers and lockable doors
－Adjustable height bookshelves
－Large shallow drawers sized to hold poster board and chart paper
－Drawers for teacher storage
－Lockable file cabinets
＊Fixed cubbies for student storage with hooks
＊Tables，chairs，and student desks that are mobile
對 Networked computers
黄 Kidney shaped table
＊Magnetic marker board on primary and secondary teaching wall
＊Tack board at each end of marker board on primary wall
Tack strip above marker board

## Special Considerations

The following table reflects design considerations for the space．
＊Comfortable rooms with pleasant décor that contribute to an atmosphere conducive to creativity
＊Proportion classroom for effective viewing and listening from all areas of the classroom
＊Plenty of natural／quality lighting
＊Wheelchair accessibility
＊VCT tile／spill resistant flooring
＊Mats on floor
事 Wheelchair accessibility
＊Wide hallways to include wheelchair storage without fire code violation
＊Storage specifically for mobility equipment
＊Walking bars in hallway \＆restroom
＊Adjustable foot benches

## Restroom/ Shower

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


Personal hygiene

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


- Sink with hot and cold water
* Toilet
* Shower with hand held shower head




## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

[^2]Exhaust fan
High speed air dryers

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

畨 Casework to include：
－Cabinet with mirror
＊Changing table
漛 Storage for diapers，clothing，and
medical equipment／supplies
畨 Rolled toiled paper dispenser
罾 Handrail／grab bar
＊Extra wall space for adaptive toilet chairs

## Special Considerations

The following table reflects design considerations for the space．
＊Adjacent to Health Clinic

## Student Services Office

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


Administrative work
Scheduling

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

One-way glass for observation

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space


* Lockable storage cabinets
* Flexible surfaces

眷 Abundant shelving
者 Flexible or multiple display surfaces

## Special Considerations

The following table reflects design considerations for the space.


Accessible to Conference Room

## Resource/ Tutorial Room [RSP, SDC: ED, MM, DHH]

## See Core Academic

## Conference Room

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


Casework to include:

- Counter top with sink, base and wall cabinets
* Conference tables and chairs

Side chairs
Magnetic marker board
Tack board
Clock

## Special Considerations

The following table reflects design considerations for the space.

* Consideration for sound transfer

畨 Carpeting

## Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: solid with keypad access
Windows: none

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Casework to include:
- Countertop with base cabinets
- Lockable storage cabinets
- Wall shelving

Lockable file cabinets
Paper storage, shredder, and cutter

## Special Considerations

The following table reflects design considerations for the space.

* No special requirements


## Adaptive PE

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


* Adjustable sink

Laundry facilities

## 응 울 Duplex electrical outlets on each

 wall* Overhead lighting


畨 Access to voice, video, data ports, and electrical outlets

## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


富 One-way glass for observation
Wheelchair accessible doors with push button to open

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space


- Lockable storage cabinets, large enough for mobility equipment
- Flexible surfaces
- Abundant shelving
- Flexible or multiple display surfaces


## Special Considerations

The following table reflects design considerations for the space.


畨 Room for different OT/PT activities such as motor skill development

- Movable partition to divide room
* Handicapped accessible and accessible to large wheelchairs
* Accessible to teachers' center


Media Center

## I ntroduction

The Media Center will serve as the information hub of the school, providing access to materials within and outside the physical facility. An important aspect of this area is the continual use of printed material as well as electronic sources of information. Through various networks the Media Center will maintain 2-way communication with all parts of the building, all schools within the district, homes and businesses that are on-line [either via cable or telephone lines], colleges, universities, public libraries, and other remote sources.

All curricular areas of the school will share the Media Center instructional technologies, which include computers, audio, database access, and Internet information technologies. The Media Center is a technology-intensive environment, with computer information stations located throughout the Reading/Learning/Circulation area.

## Overview

The Media Center will be utilized by all students, staff, teachers, and community members. Therefore, a centrally located Media Center with public access would be ideal.

The Media Center will consist of:Reading Room / Circulation

* Media Specialist Office/Workroom

者 Technology Control Center

* A/V Storage
* Media Production Room

The Media Center maintains a high profile in the life of the school and is an active participant.

An emphasis was placed on the Media Center providing experiences regarding the following opportunities for students:

* Identify, evaluate, and communicate information

漛 Exercise responsibility when using materials, information, and technology

* Maintain the highest standards of scholarship
* Develop the habits of confident, skillful, and discerning readers

Students are expected to become self-directed learners and feel comfortable using the Media Center for any field of inquiry.

The Media Center will serve students in grades PreKindergarten through Fifth. Its resources are available to all students in an atmosphere that is inviting, comfortable, and vibrant.

The Media Center should have flexible work and social settings for multiple activities that take place simultaneously. The Media Center also provides spaces for reflection.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

sample photo: does not represent LBUSD facilities


## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the media center.

| Media Center Spaces | Suggested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Library/Media Center Main Room |  | 1 | 1,500 | 1,500 |  | 1 | 1,500 | 1,500 |  | 1 | 2,000 | 2,000 |  | 1 | 2,000 | 2,000 |  | 1 | 2,500 | 2,500 |
| Multi-Media Workroom/"Kinko's for Kids" |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |  | 1 | 750 | 750 |
| Media Specialist/Clerk Office |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Textbook Storage |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| Telecommunications Room |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| A/V Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Media Center Sub-Total | 0 |  |  | 3,250 | 0 |  |  | 3,250 | 0 |  |  | 3,750 | 0 |  |  | 3,850 | 0 |  |  | 4,350 |

## Spatial Relationships

The Media Center Program Area should be in a centralized location and easily accessed by the community. It should also be adjacent to the Core.


| STANDARDS FOR TYPICAL OFFICES |  |  |  |
| :---: | :---: | :---: | :---: |
| See Program Area Descriptions for other items |  |  |  |
| FURNITUREIEQUIPMENT | QTY | MECHANICAL | QTY |
| Desk with return | 1 | Air Conditioning | Yes |
| Desk chair | 1 |  |  |
| Credenza in rooms > 200SF | 1 |  |  |
| Guest chairs, rooms < 150SF | 2 |  |  |
| Guest chairs, rooms 155-200SF | 4 | ELECTRICAL | QTY |
| Conf chairs, rooms over 200SF | 4 | Duplex outlet | each wall |
| Conf table, rooms over 200SF | 1 | Quad outtet @ ea. data port | 1 |
| Bookshelves | 18 LF |  |  |
| Marker board | 4LF |  |  |
| Laptop computer | 1 | PLUMBING | QTY |
| Printer | 1 | No special requirements |  |
| File cabinet, 4 drawer | 1 to 2 |  |  |
| Bulletin board | 4LF |  |  |
| Clock | 1 | TECHNOLOGY | QTY |
|  |  | Data port and/or access to wireless | 1 |
|  |  | Telephone | 1 |
|  |  | Video port | 1 |
|  |  | Intercom through phone handset | Yes |
|  |  |  |  |

## Reading Room/ Circulation

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


Reading
Story area

* Circulation of materials and
resources
* Whole group and small group
instruction
* Provide meeting areas

显 Research

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．

＊Door：double doors large view panel
漛 Door：swinging half door into circulation desk and work area
＊Windows：operable，with blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

## ＊Casework to include：

－Appropriate height book shelving
－Circulation counter and base cabinets centrally located
－Countertop with base and wall cabinets
－Periodical shelving
－Display cases［secure／lockable］
－Built－in cabinets／shelving behind circulation desk for processing
＊4－6 person tables with chairs
数 Soft seating／separate reading area
Appropriately proportioned furniture
for PreK－ $5^{\text {th }}$ grade students
＊Computer tables and chairs
＊Printers and printer tables
Networked computers w／access to programs and card catalog
晋 Electronic mounted screen
＊Tack board
＊Magnetic marker board
黄 Photocopy machine

## Special Considerations

The following table reflects design considerations for the space．

黄 Ceiling height proportionate to room dimensions
黄 Open flow for traffic in reference／ professional／periodicals area
藓 Auditory privacy
＊Provide method to darken room for AV presentations
＊Access to Media Center during／ after school hours while maintaining security in the remainder of the school
－Carpeting
＊Line of site across media center
＊Bookshelves with flat tops for display of student work
＊Space for special collections e．g． holidays，professional library for staff
＊Line of site across media center
＊Bookshelves with flat tops for display of student work
＊Outside reading garden／small amphitheater

## Multi-Media Workroom/ "Kinkos for Kids"

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


Multi-media production

* Preparing for Distance Learning
* Preparing for presentations
* Students, teachers and classes

者 Individual students
黄 Media specialist

* Media assistants


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements

* No special requirements




## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．

＊Door：double doors large view panel
黄 Windows：operable，with blinds for controlled natural lighting

## Special Considerations

The following table reflects design considerations for the space．

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．
＊ ＊asework to include：
－Circulation counter and base cabinets
－Countertop with base and wall cabinets
－Periodical shelving
－Display cases［secure／lockable］
－Built－in cabinets／shelving behind circulation desk for processing
－Corkboard on front of casework
業 Computer tables and chairs
＊Printers and printer tables
＊Networked computers w／access to programs and online catalog and databases
＊LCD projector and mounted screen
＊Tack board
畨 Magnetic marker board
＊Built in TV／DVD／VCR and video
conference equipment
Networked copy machine

## Media Specialist/ Clerk Office

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door with lock: view panel
* Windows: share glass windows with

Reading Room to see entire LMC

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Counter top with base and wall cabinets
- File cabinet
- Bookcases
- Locking cabinet for supplies
- Coat closet

惠 Desk and chair
Networked computer

- Printer
* Magnetic marker board

Small tack board
Fax

* Copy machine

Paper cutter
Laminator

## Special Considerations

The following table reflects design considerations for the space.


## Textbook Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Countertop with base and wall cabinets
- Lockable storage cabinets
- Wall shelving
* Fireproof storage cabinets

带 Clock

## Special Considerations

The following table reflects design considerations for the space.


* Vinyl tile
* Adjacent to library with direct access
to student walkway
畨 Window or half door for book
distribution to students


## Telecommunications Room

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


HVAC to meet requirements of heat producing equipment

* No special requirements

|  | Duplex electrical outlets on each wall <br> Electrical outlets with building surge protectors as needed <br> Dedicated circuits with grounds |
| :---: | :---: |



## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．


漛 Equipment racks
＊Shelving for video／cable system
＊Desk and chair
善 Two rolling storage carts with locks for laptop units
－Compact disc interactive
＊Still video players
＊VCR／DVD combo player
＊CD／DVD burner

## Special Considerations

The following table reflects design considerations for the space．

漛 Vinyl tile or carpet

## A/ V Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


* Storage of A/V equipment and supplies


Media Specialist

* Paraprofessional


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

畨 Casework to include:

- Adjustable, deep shelving built to ceiling height
- Large, flat paper storage drawers
- File cabinets
- Cabinets
* Equipment racks


## Special Considerations

The following table reflects design considerations for the space.

Vinyl tile flooring

sample photo: does not represent LBUSD facilities

Specific spaces associated with the Wet Lab and corresponding illustrations and adjacencies are described herein. Additionally, descriptions of activities and persons to be accommodated as well as design considerations are listed.

sample photo: does not represent LBUSD facilities

Long Beach Unified School District
Elementary School Educational Specifications

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the science/art web lab.

| Wet Lab[Art \& Science] Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Wet Lab [Art \& Science] | 0 | 0 | 1,100 | 0 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 2 | 2 | 1,100 | 2,200 |
| Storage |  | 0 | 100 | 0 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 2 | 100 | 200 |
| Visual Art/ Wet Lab Sub-Total | 0 |  |  | 0 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 2 |  |  | 2,400 |

## Spatial Relationships

The Wet Lab should be adjacent to Technology Education and the outside.


550 and 700 Student School

 DeJONG

Long Beach Unified School District

STANDARDS FOR TYPICAL LEARNING LABSICLASSROOMS, ELEMENTARY
See Program Area Descriptions for other items

| See Program Area Descriptions for other items |
| :--- | :---: |
| FURNITURE/EQUIPMENT QTY <br> Student work tables, 2 students each 13 <br> Student chairs 26 <br> Countertop over base cabinets 4 LF <br> Overhead cabinets 16 LF <br> Marker board 24 LF <br> Bulletin board 24 LF <br> Shelving 6 LF <br> Locking storage cabinet 1 <br> AlO (All in One) Device 2 <br> Mobile bookcases, 3 ' long 1 <br> Elevated pull down screen  <br> Maximize bulletin board surfaces  l |


| MECHANICAL | QTY |
| :--- | :---: |
| Air-conditioning |  |
| Operable windows |  |



| TECHNOLOGY | QTY |
| :--- | :---: |
| Voice, data, video outlets at teacher desk | 1 |
| 6data drosp with doubbe, triple, or quad CNOs | 6 |
| (Communications Network Outlets) | 2 |
| 2 data drops at teacher desk area | 1 |
| Data drop dedicated to wireless, high on wall | 1 |
| Wireless Internet access | Yes |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Analog telephone | 1 |
| Intercom | Yes |
| Smartboard w/ integral LCD projector | 1 |
| Audio Enhancement | 1 system |
| Laptop computers with carts, shared | 26 |

## Wet Lab

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．

Building System Requirements
The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．

No special requirements


Duplex electrical outlets on each wall and near teacher station
＊Ability to control specific lighting areas
－Room darkening capability
＊Telephone／intercom／voicemail port
嶪 Video ports and monitors
＊Data ports
＊Quad outlet adjacent to each data port
＊Wireless access points throughout school
量 Area for distance learning
＊LCD projector with pull－down screen
＊Networked computers
Teacher networked computer

Adequate ventilation
＊Air conditioning

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


Windows：operable，with blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

者 Printers and printer tables
畨 Wall cabinets

数 Tack board
＊Computer tables and chairs
＊Individual chairs and tables that can be moved around for individual and／or collaborative projects
＊Variety of large and small objects
＊Layout should maximize shelving and storage
＊Counter tops

## Special Considerations

The following table reflects design considerations for the space．

＊Auditory privacy
＊Provide method to darken room for AV presentations
＊Access to Library／Media Center during／after school hours while maintaining security in the remainder of the school Printing publishing area

## Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Music

## I ntroduction

It is the goal of the music program to increase the student's knowledge and appreciation for music and the performing arts and to integrate music with the core curriculum.

The purpose of the Music Classroom is to provide a space that will serve as the learning/practice area for general music classes.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.
sample photo: does not represent $\angle B U S D$ facilities

Long Beach Unified School District
Elementary School Educational Specifications

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the music area.

| Music Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total |  | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Music Room | 1 | 1 | 1,200 | 1,200 | 1 |  | 1,200 | 1,200 | 1 |  | 1,200 | 1,200 | 2 | 2 | 1,200 | 2,400 | 2 | 2 | 1,200 | 2,400 |
| Storage |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Auditorium | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  | See Food Service Area |  |  |  |
| Music | 1 |  |  | 1,400 | 1 |  |  | 1,400 |  |  |  |  | 2 |  |  | 2,600 |

## Spatial Relationships

The Music Program Area should be adjacent to Technology Education and to the Stage, located in the cafeteria.


400 Student School


## 550 \& 700 Student School



850 \& 1,000 Student School


Long Beach Unified School District Elementary School Educational Specifications
See Program Area Descriptions for other items

| FURNITURE/EQUIPMENT | QTY |
| :--- | :---: |
| Student work tables, 2 students each | 13 |
| Student chairs | 26 |
| Countertop over base cabinets | 4 LF |
| Overhead cabinets | 4 LF |
| Marker board | 16 LF |
| Bulletin board | 24 LF |
| Shelving | 24 LF |
| Locking storage cabinet | 6 LF |
| AIO (All in One) Device | 1 |
| Mobile bookcases, 3' long | 2 |
| Elevated pull down screen | 1 |
| Maximize bulletin board surfaces |  |


| MECHANICAL | QTY |
| :--- | :---: |
| Air-conditioning |  |
| Operable windows |  |
|  | QTY |
| ELECTRICAL | 1 per wall |
| Duplex outlet | 1 |
| Quad outlet @ ea. data port |  |
| Front row of light, dimmable |  |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Voice, data, video outlets at teacher desk | 1 |
| 6 data drops with double, triple, or quad CNOs <br> (Communications Network Outlets) | 6 |
| 2 data drops at teacher desk area | 2 |
| Data drop dedicated to wireless, high on wall | 1 |
| Wireless Internet access | Yes |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Analog telephone | 1 |
| Intercom | Yes |
| Smartboard w/ integral LCD projector | 1 |
| Audio Enhancement | 1 system |
| Laptop computers with carts, shared | 26 |

## Music Room

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


Quiet HVAC system [noise from mechanical equipment should not be audible in classroom]

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


Door：double doors that lead onto stage
＊Windows：operable，blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．


粼 Casework to include：
－Countertops with wall cabinets
－ 4 tall storage cabinets with shelving，drawers and lockable doors
－Wardrobe cabinets
－Music storage cabinets：sufficient to hold all instruments when room is used as community space
＊Printer and printer table
Desk and chair
＊Portable risers and guard rails
Computer／keyboard lab tables
＊CD／DVD player／burner，tape player， and digital video camera
＊Networked computers
＊Magnetic marker board with music
staff on one section
＊Tack boards and strips
＊Large area rug
漛 Instrument carts
＊Piano
－Stackable chairs
Music stands

## Special Considerations

The following table reflects design considerations for the space．
＊Appropriate acoustical treatment to minimize disruptions from adjacent rooms and to enhance sound quality／ performance
＊No noise from external sources
畨 Direct access to stage from music room
Vinyl Tile flooring with area rug

## Music Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

Storage of textbooks, instruments, equipment and supplies

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: view panel
Windows: no special requirements

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Casework to include:
- Heavy duty, adjustable shelving on 3 walls
- File cabinets

Wusic folio cabinet
. Instrument storage shelving

## Special Considerations

The following table reflects design considerations for the space.

No special requirements

sample photo: does not
represent LBUSD facilities

## Technology Education

## I ntroduction

The Technology Education Program will focus on computer skills, project-based introduction to tools, and the integration of instruction with arts, mathematics, science, and other content areas. Technology Education fosters teamwork, problem-solving, technological literacy, and communication skills.

Specific spaces associated with Technology Education and corresponding illustrations and adjacencies are described herein. Additionally, descriptions of activities and persons to be accommodated as well as design considerations are listed.

Long Beach Unified School District
Elementary School Educational Specifications

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in technology education.

| Tech Ed/ Computer Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Tech Ed Lab | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 1 | 1 | 1,100 | 1,100 | 2 | 2 | 1,100 | 2,200 | 2 | 2 | 1,100 | 2,200 |
| Storage |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 1 | 100 | 100 |  | 2 | 100 | 200 |  | 2 | 100 | 200 |
| Tech Ed Sub-Total | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 1 |  |  | 1,200 | 2 |  |  | 2,400 | 2 |  |  | 2,400 |

## Spatial Relationships

The Technology Education Area should be adjacent to the Cafeteria, Music Area, and the outside.


550 and 700 Student School


850 and 1,000 Student School

400 Student School


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Long Beach Unified School District

STANDARDS FOR TYPICAL LEARNING LABSICLASSROOMS, ELEMENTARY
See Program Area Descriptions for other items

| See Program Area Descriptions for other items |
| :--- | :---: |
| FURNITURE/EQUIPMENT QTY <br> Student work tables, 2 students each 13 <br> Student chairs 26 <br> Countertop over base cabinets 4 LF <br> Overhead cabinets 16 LF <br> Marker board 24 LF <br> Bulletin board 24 LF <br> Shelving 6 LF <br> Locking storage cabinet 1 <br> AlO (All in One) Device 2 <br> Mobile bookcases, 3 ' long 1 <br> Elevated pull down screen  <br> Maximize bulletin board surfaces  l |


| MECHANICAL | QTY |
| :--- | :---: |
| Air-conditioning |  |
| Operable windows |  |



| TECHNOLOGY | QTY |
| :--- | :---: |
| Voice, data, video outlets at teacher desk | 1 |
| 6data drosp with doubbe, triple, or quad CNOs | 6 |
| (Communications Network Outlets) | 2 |
| 2 data drops at teacher desk area | 1 |
| Data drop dedicated to wireless, high on wall | 1 |
| Wireless Internet access | Yes |


| TECHNOLOGY | QTY |
| :--- | :---: |
| Analog telephone | 1 |
| Intercom | Yes |
| Smartboard w/ integral LCD projector | 1 |
| Audio Enhancement | 1 system |
| Laptop computers with carts, shared | 26 |

## Tech Education Lab

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space．
＊Whole group and small group instruction
＊Project－based learning
＊Research
＊Computer learning
＊Professional Development


带 Teachers
－Students
黄 Individual students for research
＊Media specialist
＊Community patrons for after
school hours
Volunteers

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．
＊No special requirements


Duplex electrical outlets on each wall and near teacher station
＊Ability to control specific lighting areas
＊Room darkening capability
＊Telephone／intercom／voicemail port
普 Video ports and monitors
＊Data ports
＊Quad outlet adjacent to each data port
＊Wireless access points throughout school
晋 Area for distance learning
＊LCD projector with pull－down screen
－Networked computers
＊Adequate ventilation
＊Air conditioning

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


Windows：operable，with blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

者 Printers and printer tables
畨 Wall cabinets
鍺 Magnetic marker board
瀵 Tack board
＊Computer tables and chairs
＊Individual chairs and tables that can be moved around for individual and／or collaborative projects
者 Variety of large and small objects
＊Layout should maximize shelving and storage

## Special Considerations

The following table reflects design considerations for the space．

＊Auditory privacy
制 Provide method to darken room for AV presentations
＊Access to Library／Media Center during／after school hours while maintaining security in the remainder of the school Printing publishing area

## Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

## Welcome Center



## I ntroduction

Administration/Guidance will provide the organizational and instructional leadership needed to create an atmosphere that is conducive for teaching and learning. This area includes the administrative functions of the school and is combined with student support services (counselors, health, support staff, etc.). The administration/guidance area will assist in coordinating overall instruction and will serve as the hub of the building.

## Overview

The Administration/Guidance area will house facilities for several different student services including: Reception area, Secretarial area, Principal's office, Assistant Principal's office Conference room, Mail/Work/Copy room, Administrative storage.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the administration area/ welcome center. Offices will be used by Speech, Social worker, etc.

| Welcome Center Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Welcome Center/ Admin |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reception Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |
| Secretarial Area (Combined w/ reception) |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |  | 0 | 80 | 0 |
| Principal's Office |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Asst. Principal's Office |  | 0 | 120 | 0 |  | 0 | 120 | 0 |  | 1 | 120 | 120 |  | 1 | 120 | 120 |  | 1 | 120 | 120 |
| Conference Room |  | 1 | 300 | 300 |  |  | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |  | 1 | 300 | 300 |
| Counselor's Office |  | 1 | 120 | 120 |  |  | 120 | 120 |  | 2 | 120 | 240 |  | 2 | 120 | 240 |  | 3 | 120 | 360 |
| Intake/Pre-Assessment Room |  | 0 | 250 | 0 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 250 | 250 |
| Mail/Work/Copy Room |  | 1 | 250 | 250 |  | 1 | 250 | 250 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |  | 1 | 400 | 400 |
| Administrative Storage |  | 1 | 150 | 150 |  | 1 | 150 | 150 |  | 2 | 150 | 300 |  | 2 | 150 | 300 |  | 2 | 150 | 300 |
| Health Clinic |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |  | 1 | 450 | 450 |
| Additional Offices |  | 2 | 120 | 240 |  | 3 | 120 | 360 |  | 3 | 120 | 360 |  | 4 | 120 | 480 |  | 4 | 120 | 480 |
| Total | 0 |  |  | 2,210 | 0 |  |  | 2,580 | - |  |  | 3,320 | 0 |  |  | 3,440 | 0 |  |  | 3,560 |

## Spatial Relationships

The Administrative Program Area should be located near the school's entrance. It should be adjacent to the Media Center and the Core Academic Program Area.


400 Student School


1,000 Student School


| STANDARDS FOR TYPICAL OFFICES |
| :--- |
| See Program Area Descriptions for other items |
| FURNITURE/EQUIPMENT QTY <br> Desk with return 1 <br> Desk chair 1 <br> Credenza in rooms > 200SF 1 <br> Guest chairs, rooms < 150SF 2 <br> Guest chairs, rooms 155-200SF 4 <br> Conf chairs, rooms over 200SF 1 <br> Conf table, rooms over 200SF 18 LF <br> Bookshelves 4 LF <br> Marker board 1 <br> Laptop computer 1 <br> Printer 1 to 2 <br> File cabinet, 4 drawer 4 LF <br> Bulletin board 1 <br> Clock  <br>   |


| MECHANICAL | QTY |
| :--- | :---: |
| Air Conditioning | Yes |
|  |  |
|  | QTY |
| ELECTRICAL | each wall |
| Duplex outlet | 1 |
| Quad outlet @ ea. data port |  |
|  | QTY |
|  |  |
| PLUMBING |  |
| No special requirements | QTY |
|  | 1 |
| TECHNOLOGY | 1 |
| Data port and/or access to wireless | 1 |
| Telephone | Yes |
| Video port |  |
| Intercom through phone handset |  |



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## Reception Area (combined with Secretarial Area)

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


* Chimes to indicate entrance into building
* No special requirements
* Multiple duplex electrical outlets on each wall

* Telephone/intercom/voicemail port at each workstation
* Video port and monitor
* Data ports for each workstation
* Quad outlet for each data port


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


畨 Door: view panel

* Windows: operable, with blinds to allow controlled natural lighting


## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

|  | 黄 Couches and chairs，comfortable seating for students and visitors <br> Locking file cabinets <br> ＊Information board <br> ＊Message board <br> －Bulletin board <br> ＊Magnetic marker board <br> ＊Clock |
| :---: | :---: |

## Special Considerations

The following table reflects design considerations for the space．

## Secretarial Area

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space．


School staff

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．
＊No special requirements

Duplex electrical outlets on each wall

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．


汬 Door：view panel
畨 Windows：operable，with blinds to allow controlled natural lighting

## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

＊Desk／computer workstation：
＊ 1 at 300 student school
半 2 at $450 \& 600$ student schools

＊Ergonomic task chairs
Bulletin board
＊Magnetic marker board
＊Message board
＊Networked computers
＊Synchronized clock

## Special Considerations

The following table reflects design considerations for the space．
＊Bright，yet soft lighting
黄 Inviting to visitors
－Colorful
＊Secure entry for visitors
黄 Tile flooring
＊Secretarial area combined with
Reception area

## Principal's Office

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

|  | Door: narrow view panel [two entrances] <br> Windows: operable, blinds to allow controlled natural lighting Interior window with blinds to view in-school suspension room |
| :---: | :---: |

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Storage cabinets
- Bookshelves
- File cabinets
- Wardrobe closet
* Desk and chair
* Conference table

Side chairs and couch

* Lamps
* Networked computer

素 Small refrigerator/ microwave

* Magnetic marker board

曹 Clock

## Special Considerations

The following table reflects design considerations for the space.


* Second exit for security
- Carpeting


## Assistant Principal＇s Office

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space．

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．

No special requirements

Duplex electrical outlets on each wall

## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．

allow controlled natural lighting
in－school suspension room

Door：narrow view panel［two entrances］

No special requirements

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

## Special Considerations

The following table reflects design considerations for the space.

Carpeting

## Conference Room

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


Casework to include:

- Counter top with sink, base and wall cabinets
* Conference tables and chairs

Side chairs
Magnetic marker board
Tack board
Clock

## Special Considerations

The following table reflects design considerations for the space.

* Consideration for sound transfer

畨 Carpeting

## Guidance Counselor's Office

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


Counseling of students with concerns
Conferencing with parents, students, and staff

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door: narrow or view panel with blinds
畨 Windows: desired if possible; operable with blinds for privacy


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Bookcases
- Storage closet/ wardrobe
- Locking file cabinets [min of 3]
* Legal size file lateral drawer

黄 Desk and chair

* Side chairs and table
* Rolling carts
* Lamps
* Networked computer
* Bulletin board
* Magnetic marker board
* Clocks


## Special Considerations

The following table reflects design considerations for the space.

* Auditory/visual privacy

眷 Carpeting

## Mail/ Work/ Copy Room

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


Ventilation to prevent copier from overheating


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door: large view panel with optional sidelight
* Windows: no special requirements


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Countertop with sink, base and wall cabinets
- Lockable storage cabinets
- Wall shelving
* Work tables and chairs
* Staff mailboxes [with hallway access]
* Networked computer
- Copier
* Binding equipment
* Fax machine and printers
* Laminating machine
* Paper storage, shredder, and cutter
* Tack board/marker board
* Clock
* Poster maker machine
* AccuCut letter/shape cutter
* Butcher paper cart


## Special Considerations

The following table reflects design considerations for the space.

* Consideration for sound transfer

曾 Vinyl tile

## Administrative Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: solid
Windows: operable blinds for privacy

Long Beach Unified School District

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Casework to include:
- Countertop with base and wall cabinets
- Lockable storage cabinets
- Wall shelving
* Fireproof storage cabinets

Clock

## Special Considerations

The following table reflects design considerations for the space.

##  <br> * Vinyl tile

## Restrooms

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

* Door: no view panel
* Windows: no special requirements


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Casework to include:
- Mirror

Soap dispenser

* Tissue holder
* Paper towel dispenser


## Special Considerations

The following table reflects design considerations for the space.

* Located throughout school

sample photo: does not represent LBUSD facilities


## Health Clinic

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

| $\overline{0}$ |
| :--- |
| $\frac{0}{5}$ |
| $\frac{5}{5}$ |
| $\frac{0}{\Sigma}$ |

* Exhaust fan


Sink with hot and cold water

* Stacked washer and dryer
* Ice machine


Duplex electrical outlets on each wall


Telephone/intercom/voicemail port
Video port and monitor
Data ports
Quad outlet adjacent to each data port

## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.
( Door: narrow or view panel with blinds

* Windows: operable with blinds for privacy
朆 Window between office and clinic


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


Long Beach Unified School District

## Special Considerations

The following table reflects design considerations for the space.

* Auditory/visual privacy
* Health clinic to include restroom,
nurse's office, exam room
䄅 Vinyl tile flooring


## Additional Office Space

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space．

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements：Mechanical，Plumbing， Electrical \＆Lighting，and Technology．

No special requirements


## Doors \＆Windows

The following table reflects the considerations for the doors and windows to be used in the space．
（ Door：view panel
＊Windows：no special requirements

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

* Casework to include:
- Book case
- Locking cabinets
- Legal size lockable lateral file cabinet
* Desk and chair
* Table and chairs
* Networked computer
* Bulletin board
* Magnetic marker board

黄 Clock

## Special Considerations

The following table reflects design considerations for the space.

畨 Bright, yet soft lighting

* Inviting to visitors
* Carpeting



## Food Services

## I ntroduction

The Food Service Center will serve as an area where students, staff, and visitors can obtain a quick, desirable, and economical snack or meal. The center will be comfortable and cheerful and have the ability to serve as a banquet facility, meeting room, or area where dances are held.

## Overview

Specific spaces associated with Food Service and corresponding illustrations and adjacencies are described herein. Additionally, descriptions of activities and persons to be accommodated as well as design considerations are listed.

The pages that follow contain a list of spaces and drawings illustrating the relationship between various program areas, and the individual spaces within the program area. Additionally, a description of the activities, persons to accommodate, and items to be considered is included.

All spaces should reference the California Uniform Retail Food Facility Law [CURFEL], excerpt from the California Health and Safety Code.

## Space Requirements

The following table lists the type, quantity, and size of each space to be included in the food services area.


* Suggest a layout which there is divider wall between the auditorium and multipurpose room
sample photo: does not represent LBUSD facilities


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## Spatial Relationship

The Food Service Area should be adjacent to the Custodial \& Maintenance Area and the Student Dining Area. It should also have easy access to the loading dock.


400 Student School


## 1,000 Student School



| STANDARDS FOR TYPICAL OFFICES |  |  |  |
| :---: | :---: | :---: | :---: |
| See Program Area Descriptions for other items |  |  |  |
| FURNITURE/EQUIPMENT | QTY | MECHANICAL | QTY |
| Desk with return | 1 | Air Conditioning | Yes |
| Desk chair | 1 |  |  |
| Credenza in rooms > 200SF | 1 |  |  |
| Guest chairs, rooms < 150SF | 2 |  |  |
| Guest chairs, rooms 155-200SF | 4 | ELECTRICAL | QTY |
| Conf chairs, rooms over 200SF | 4 | Duplex outlet | each wall |
| Conf table, rooms over 200SF | 1 | Quad outlet @ ea. data port | 1 |
| Bookshelves | 18 LF |  |  |
| Marker board | 4 LF |  |  |
| Laptop computer | 1 | PLUMBING | QTY |
| Printer | 1 | No special requirements |  |
| File cabinet, 4 drawer | 1 to 2 |  |  |
| Bulletin board | 4 LF |  |  |
| Clock | 1 | TECHNOLOGY | QTY |
|  |  | Data port and/or access to wireless | 1 |
|  |  | Telephone | 1 |
|  |  | Video port | 1 |
|  |  | Intercom through phone handset | Yes |
|  |  |  |  |

## Preparation Area

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.Door: view panel

* Windows: none
* Security systemDouble doors to storage
* Double doors to Loading/Receiving
* Double doors to Serving area


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Other special equipment needs for food preparation


## Special Considerations

The following table reflects design considerations for the space.


* Quarry tile flooring per District standards
量 Non slip flooring
* Locate near dock and kitchen
* Meet Department of Health standards
* Washable ceilings, walls


## Serving Area

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


Serving food
Holding prepared food

## 0 0 0 0 $\vdots$ <br> Food service personnel

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


65 Degrees year round temperature


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Long Beach Unified School District

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Point of sale cash register

Other special equipment needs for food serving

* Owner-furnished/contractor-
installed serving equipment


## Special Considerations

The following table reflects design considerations for the space.


Quarry tile flooring

* Locate near dock and kitchen
* Special opening to enable multiple serving areas for community use


## Dry Food Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


Storage for dry food and paper


Food service personnel

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


65 Degrees year round temperature


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


* Rust resistant 24" deep shelving and dunnage racks
黄 Other special equipment needs for food storage
Shelving to maximize storage


## Special Considerations

The following table reflects design considerations for the space.

* Concrete flooring
* Locate near dock and kitchen


## Cooler \& Freezer

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


* See manufacturer's specifications
* Separate condensing units for each box [cooler and freezer]



## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Walk-in freezer and cooler
Rust-proof shelving, 18' deep with
additional 24 " deep dunnage racks in
freezer and refrigerator

## Special Considerations

The following table reflects design considerations for the space.

畨 No special requirements

## Ware Washing

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: no special requirements
Windows: none

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Rust-proof shelving

## Special Considerations

The following table reflects design considerations for the space.


* Tile flooring


## Kitchen Manager Office

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.

No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: large view panel
Windows: operable with $1 / 2$ glass looking into serving area and food prep area

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


## Special Considerations

The following table reflects design considerations for the space.

曹 No special requirements

## Restroom

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


Exhaust fan


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

Casework to include:

- Cabinet with mirrors


## Special Considerations

The following table reflects design considerations for the space.

* Adjacent to locker room

NaC
DeJONG

## Locker Room

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


Ventilation


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.

眷 Lockers with sloped tops
Bench
Locking storage cabinet

## Special Considerations

The following table reflects design considerations for the space.

费 Adjacent to food service restroom

## Multipurpose Room

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door: double doors with access to outside courtyard/dining area
* Windows: operable, with blinds to allow controlled natural lighting,


## Furniture \＆Equipment

The following table reflects the considerations for furniture and other equipment needed within the space．

＊Round，fold up tables
業 Stackable，free standing chairs and chair dolly
軳 CD／DVD player
＊Equipment rack in control closet

＊Flat screen televisions mounted to wall

## Special Considerations

The following table reflects design considerations for the space．

## Stage

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


Air conditioning

No special requirements


* Duplex electrical outlets on each wall
*) Adjustable theater lights

曹 Data port

* Quad outlet adjacent to each data port
带 Sound system with portable or wireless microphones


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


譜 Stage curtain

* Backdrop curtain
* Appropriate/balanced proscenium
arch for special acoustics
Risers/steps as part of front of stage


## Special Considerations

The following table reflects design considerations for the space.


Raised above Multipurpose Room
floor

* Barrier free access from

Multipurpose Room
Vinyl tile flooring

## Table \& Chair Storage

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

\section*{| $n$ |
| :--- |
| 0 |
| 0 |
| $\vdots$ |
|  |}

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


Table and chair racks

## Special Considerations

The following table reflects design considerations for the space.

* No special requirements



## Custodial / Maintenance

## I ntroduction

Custodial may provide space for receiving/storage, maintenance/repair, and office/meeting space. In addition, maintenance should be able to access major electrical, plumbing, and mechanical fixtures without having to go into the classrooms.

## Overview

The pages that follow contain a list of spaces and drawings illustrating the relationship between various Custodial areas. Additionally, a description of the service, persons to accommodate, and items to be considered is included.
sample photo: does not represent LBUSD facilities

Long Beach Unified School District

## Space Requirements Table

The following table lists the type, quantity, and size of each space to be included in this program area.

| Custodial Spaces | Sugested Spaces for 400 Students |  |  |  | Suggested Spaces for 550 Students |  |  |  | Suggested Spaces for 700 Students |  |  |  | Suggested Spaces for 850 Students |  |  |  | Suggested Spaces for 1,000 Students |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total | TS | Quantity | SF | Total |
| Receiving/Storage |  | 1 | 500 | 500 |  |  | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 700 | 700 |  | 1 | 700 | 700 |
| Maintenance/Repair Area |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |  | 1 | 500 | 500 |
| Office/Planning/Meeting Area |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |  | 1 | 200 | 200 |
| Custodial Hopper Room [throughout school] |  | 2 | 100 | 200 |  | 4 | 100 | 400 |  | 6 | 100 | 600 |  | 8 | 100 | 800 |  | 10 | 100 | 1,000 |
| Mechanical Rooms \& Restrooms | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  | See Builidng Service in Sum Chart |  |  |  |
| Loading Dock |  |  | outside |  |  |  | outside |  |  |  | outside |  |  |  | outside |  |  |  | outside |  |
| Custodial Sub-Total | 0 |  |  | 1,400 | 0 |  |  | 1,600 | 0 |  |  | 1,800 | 0 |  |  | 2,200 | 0 |  |  | 2,400 |

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## Spatial Relationships

The Custodial area should be located next to receiving/ storage as well as next to the Food Services areas.


LOADING DOCK


| STANDARDS FOR TYPICAL OFFICES |  |  |  |
| :---: | :---: | :---: | :---: |
| See Program Area Descriptions for other items |  |  |  |
| FURNITURE/EQUIPMENT | QTY | MECHANICAL | QTY |
| Desk with return | 1 | Air Conditioning | Yes |
| Desk chair | 1 |  |  |
| Credenza in rooms > 200SF | 1 |  |  |
| Guest chairs, rooms < 150SF | 2 |  |  |
| Guest chairs, rooms 155-200SF | 4 | ELECTRICAL | QTY |
| Conf chairs, rooms over 200SF | 4 | Duplex outlet | each wall |
| Conf table, rooms over 200SF | 1 | Quad outlet @ ea. data port | 1 |
| Bookshelves | 18 LF |  |  |
| Marker board | 4 LF |  |  |
| Laptop computer | 1 | PLUMBING | QTY |
| Printer | 1 | No special requirements |  |
| File cabinet, 4 drawer | 1 to 2 |  |  |
| Bulletin board | 4 LF |  |  |
| Clock | 1 | TECHNOLOGY | QTY |
|  |  | Data port and/or access to wireless | 1 |
|  |  | Telephone | 1 |
|  |  | Video port | 1 |
|  |  | Intercom through phone handset | Yes |
|  |  |  |  |

## Receiving/ Storage Area

## Activities and Persons

The following list reflects the anticipated activities to be conducted in the Loading/Receiving area and the persons making use of the space.


* Delivery area for bulk commodities, supplies, materials, and equipment
* Loading and unloading
* Storage
* Custodial and maintenance
personnel
漛 Food service personnel


## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: electric roll-up door to loading dock

* Double doors with removable mullions to hallway
Windows: no special requirements

Furniture \＆Equipment
The following table reflects the considerations for furniture and other equipment needed within the space．
＊Step Iadders
Wollies
㳟 Lifts
敇 Shelves
＊Built－in cabinets
＊Large mop sink

## Special Considerations

The following table reflects design considerations for the space．

畨 Located adjacent to the Custodial and maintenance area and Food Service area
＊Proper lighting and ventilation

## Maintenance/ Repair Area

## Activities and Persons

The following table reflects the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


Door: for moving large equipment Windows: no special requirements

Furniture \＆Equipment
The following table reflects the considerations for furniture and other equipment needed within the space．

＊Work bench with built－in electrical outlets
＊Peg boards for bench work
进 Locking shelving for tools
－Compressor
－Eye wash
＊Soap dispenser
眷 Paper towel holder
Built in vise
業 Hazmat storage cabinet

## Special Considerations

The following table reflects design considerations for the space．


Soundproofing between workroom and
instruction areas
＊Adjacent to loading dock

## Office/ Planning \& Meeting Area

## Activities and Persons

The following tables reflect the anticipated activities to be conducted in the space and the persons making use of the space.

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements

* No special requirements


Duplex electrical outlets on each wall

* Adequate lighting

| 2 <br> 8 <br> 0 <br> 0 | Telephone/intercom/voicemail port Video port and monitor |
| :---: | :---: |
|  | * Data ports |
|  | Quad outlet adjacent to each data port |
|  | * HVAC controls |
|  | * Data ports or e-mail (hand held) |
|  | access and charging ports in custodial office |

## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.


* Door: view panel

都 Windows: window with a view of workroom and loading dock

## Furniture \& Equipment

The following table reflects the considerations for furniture and other equipment needed within the space.


巷 Casework to include:

- Filing cabinet
- Bookcase

㭗 Tack board
, Desk and chair

* Ergonomic task chairs
- Networked computer

Printer

## Special Considerations

The following table reflects design considerations for the space.

* No special requirements


## Loading Area

## Activities and Persons

The following list reflects the anticipated activities to be conducted in the Loading/Receiving area and the persons making use of the space.


* Delivery area for bulk commodities, supplies, materials, and equipment * Loading and unloading

带 Custodial and maintenance personnel
Food service personnel

## Building System Requirements

The following tables reflect the needs of four different areas of Building System Requirements: Mechanical, Plumbing, Electrical \& Lighting, and Technology.


No special requirements


## Doors \& Windows

The following table reflects the considerations for the doors and windows to be used in the space.

Furniture \＆Equipment
The following table reflects the considerations for furniture and other equipment needed within the space．

Step ladders
＊Dollies
都 Lifts

## Special Considerations

The following table reflects design considerations for the space．

鳌 Located adjacent to the Custodial and maintenance area and Food Service area
Proper lighting and ventilation
制 Locked drop area with security alarm


[^0]:    N.

    DeJONG

[^1]:    Each Cluster would support approximately 180 students

[^2]:    |  |  |
    | :--- | :--- |
    |  |  |
    | 0 | 0 |
    | 0 |  |
    | 0 | 0 |
    | 0 | 0 |
    | 0 |  |
    | 0 |  |

    * Door: no view panel

    黄 Windows: none

    * Stalls with lower dividers for potty
    training \& supervision
    Wheelchair accessible

