

EDUCATIONAL SPECIFICATION

GENERIC MIDDLE SCHOOL

New Construction
Grades: 6 - 8
Total Student Stations: 1,458
Utilization Factor: 90%
FISH Capacity: 1,312
Program Capacity: 1,300
Core Facilities: 1,300



Mr. Tom Lynch, Chairman
Mr. Bill Graham, Vice Chairman
Monroe Benaim, M.D.
Mrs. Paulette Burdick
Mr. Mark Hansen
Dr. Sandra Richmond
Debra Robinson, M.D.

Arthur C. Johnson, Ph.D.
Superintendent

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INTRODUCTION

These Educational Specifications are intended for use as a planning guide by architects and others responsible for developing physical facilities in Palm Beach County. The general concept embodied in the specifications is to provide general and adequate details for proposed spaces while leaving ample flexibility for creativity and options in design by the architects.

Philosophy and Goals of the School Board of Palm Beach County are provided as general directions for programs in the School District and are followed by a listing of General Considerations. The facility list is intended to be a summary of the spaces to be provided, but is sufficiently flexible to accommodate design requirements and compatibility with adjacent space.

Specifications for the various program areas include a common listing of informational categories within each of the areas. Specific information relative to each particular area is included under various headings as follows:

- I. Program Philosophy
- II. Program Goals
- III. Program Activities
- IV. Organizational Nomenclature
- V. Innovations, Experimental Ideas, Other Planned Uses
- VI. Justification for Variance from S.R.E.F. Requirements
- VII. Program Facilities List
- VIII. Program Furniture and Equipment
- IX. Special Considerations

The graphic representations of Space Relationships are intended only to establish adjacencies and not to set design. Spaces shall be arranged for the various program areas in a configuration compatible with traffic control, site needs and the following considerations:

1. Facilities shall be as functional as possible; that is, they shall be organized in a manner responsive to educational programming requirements in an orderly economical way.
2. Facilities shall be as responsive as possible to long-term maintenance goals. The architect shall endeavor to produce a product with the lowest possible life cycle cost.
3. Facilities shall be as vandal-resistant as is possible within realistic budget constraints.
4. Facilities shall be as aesthetically pleasing as possible, considering neighborhood, shape, materials, colors, etc.
5. Facilities shall be designed to provide adequate student movement (circulation) without unnecessary waste.
6. Facilities shall be designed to facilitate the inclusion of students with disabilities.

Special attention is directed to planning for community utilization of the plant and campus, maximum energy conservation and capital budget restraints.

PHILOSOPHY AND GOALS

I. PROGRAM PHILOSOPHY

The Board's philosophy is to provide an educational system which is instructionally sound and environmentally stimulating enough to attract and maintain high-quality professional, technical and administrative employees. This system is designed to earn the respect of the Palm Beach County community, the state and the nation.

The Board believes that successful implementation of its philosophy is highly dependent upon a positive, active, working partnership which includes the Board, administrators, teachers, staff, students, parents, community, business and industry. For this reason, the support requirements for this project were developed by a participatory process involving committees of educators, the Department of Secondary and Career Education and various departments of the SDPBC.

II. PROGRAM GOALS

A. **Student Goals** - Students shall acquire, to the extent of their individual physical, mental and emotional capacities, a mastery of the basic skills required in the curriculum.

1. **Communication and Learning Skills** - All students shall be provided an opportunity to do the following:

- a. Develop and apply basic skills in reading, writing, speaking, viewing and listening.
- b. Gain a general education in broader fields of language arts, social studies, science, mathematics, humanities and vocational education.
- c. Develop a desire for learning.
- d. Develop a capacity for self-evaluation and self-direction.
- e. Examine, analyze, evaluate and utilize various kinds of information.

2. **Human Relations** - All students shall be provided an opportunity to do the following:

- a. Develop a pride of accomplishment and a feeling of self-worth.
- b. Learn to respect and get along with people.

3. **Citizenship Education** - All students shall be provided an opportunity to do the following:
 - a. Develop good character and self-respect.
 - b. Be responsible citizens.
 - c. Participate in democratic experiences and processes.
4. **Occupational Interests** - All students shall be provided an opportunity to do the following:
 - a. Develop a positive attitude toward work.
 - b. Develop respect for the dignity of all occupations.
 - c. Acquire information needed for making appropriate job selections.
 - d. Develop the ability to use information as it relates to a particular vocation.
5. **Home and Family Relationships** - All students shall be provided an opportunity to do the following:
 - a. Broaden an appreciation of the family as a social institution and as a basic unit of society.
 - b. Acquire skills and attitudes for management of family resources.
 - c. Acquire and understand the skills of family living.
6. **Mental and Physical Health** - All students shall be provided an opportunity to do the following:
 - a. Develop good health habits and an understanding of the conditions necessary for maintenance of physical and emotional well-being.
 - b. Acquire a knowledge of basic psychological and sociological factors affecting human behavior and mental health.
 - c. Develop competence for adjusting to changes.
 - d. Recognize and work to solve environmental health problems.
7. **Aesthetic and Cultural Appreciation** - All students shall be provided an opportunity to do the following:
 - a. Develop an understanding and appreciation of human achievement in natural sciences, social sciences, humanities and the arts.

- b. Broaden interests and prepare for productive use of leisure time.
 - c. Develop skills and creative abilities for self-expression.
8. **Inclusive Education** - All students shall be provided with the following:
- a. Appropriate educational services in the least restrictive environment which will enable them to have full equality of opportunity.
 - b. Opportunities to interact academically and socially with students with various abilities and disabilities.
 - c. Opportunities to celebrate their differences and unique talents, and.
 - d. Access to facilities designed to accommodate their exceptionalities.

B. Management Goals

1. **General Management** - The SDPBC shall refine, implement and utilize management practices which will provide the following:
- a. Planning and evaluation programs which will ensure accurate and adequate information for decision-making.
 - b. Administrative procedures which ensure that program planning, budgeting and evaluation systems are integrated and cyclical in nature.
 - c. Information services that promote timely acquisition of accurate information regarding SBPBC policies, procedures and activities which fulfill the needs of the SDPBC and the public.
 - d. Administrative and Instructional support for "school-based management" procedures and techniques.
 - e. System-wide support services for functions, processes and programs.
 - f. Continuing development, refinement, implementation and evaluation of instructional materials, processes and components of the curriculum.
 - g. Flexible organizational structure which clearly defines and delineates authority, responsibility and accountability.
 - h. Fiscal integrity in budgeting and business affairs.
2. **Personnel Management** - The SDPBC will develop and maintain the following:
- a. Practices and programs to recruit the best qualified personnel for all positions.

- b. Programs to orient all employees properly to their job responsibilities, operation and organization of their units, and organization of the school system.
- c. Staff Development Programs to update employees in their chosen fields and to enhance their professional and career growth.
- d. Develop programs to teach administrators at all levels how to achieve excellence in managing people, including performance, planning, evaluation and counseling.
- e. A system to identify high potential employees and their readiness status to qualify for higher career positions within the SDPBC.
- f. Practices and programs to attain effective affirmative action.
- g. Practices and systems to establish realistic position descriptions for each level and equitable compensation for those levels.

FACILITY LIST BY AREAS**Generic Middle School****Grades: 6 - 8****Total Student Stations: 1,458****Utilization Factor: 90%****FISH Capacity: 1,312****Program Capacity: 1,300****Core Facilities: 1,300**

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ADMINISTRATIVE							
300	1	Principal (50 NSF from conference room)	250		300		
301	4	Administrative Office		175	700		
302	1	Bookkeeper			175		
303	1	Principal's Secretary			175		
304	1	General Reception/Secretary (300 NSF to Student Services Reception/Secretary & 300 NSF to Academic House Reception/Secretary & Storage/Vault)	1,158		558		
305	1	Production/Workroom			520		
306	2	Conference (50 NSF to principal, 300 NSF to Student Services Conference and remaining NSF to be split into 2 conference rooms)	910		560		
308	1	Administrative Storage (300 NSF to Academic House Storage/Vault & 100 to Student Service Storage)	650		250		
310	1	School Store			130		
312	1	Computer Area/Data Processor			195		
368	1	Textbook Storage (150 NSF to Academic House textbook)	455		305		
314	1	Itinerant			125		
301	1	Video Surveillance			150		
301	2	Office for School Police		150	300		
819/820		Restrooms, staff (out of allotment)			-		
822/823		Restroom, public (out of allotment)			-		
		Subtotal			4,443		
STUDENT SERVICES/GUIDANCE							
307	1	Clinic (Board approved prototype)			653		
309	1	Records/Vault			390		
306	1	Conference (from administrative conference)			300		
301	3	Administrative Office		175	525		
314	1	Itinerant/Attendance Clerk			125		
313	1	Student Activities Area/Careers Room (Combine into 1 space)			1,040		
304	1	Reception/Secretary (300 NSF from General Reception & 158 NSF for secretary)			458		
308	1	Student Service Storage (from Administrative Storage)			100		
		Subtotal			3,591		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ACADEMIC HOUSES							
301	3	Administrative Office		175	525		
314	3	Itinerant		125	375		
304	3	Reception/Secretary (NSF from General Reception/Secretary & 450 NSF for Secretary)		225	675		
308	3	Storage/Vault (from Administrative Storage & General Reception/Secretary)		150	450		
368	3	Textbook Storage (from Administrative Textbook Storage)		50	150		
315	3	Teacher Planning (from allotment)					
819/820		Restrooms, staff (from allotment)					
		Subtotal			2,175		
		TOTAL			10,209		
ART							
051	2	Laboratory		1,176	2,352	28	56
805	2	Kiln (combined into 1)		60	120		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
		TOTAL			2,972		56
CUSTODIAL							
330/331		Central Receiving, Toilets, Lockers, Showers, Custodial Closets, Workroom & Office			1,950		
333	1	Flammable Storage			155		
334	1	Equipment Storage			500		
334	1	Golf Cart Storage (from dining)			300		
		TOTAL			2,905		
EXCEPTIONAL STUDENT EDUCATION							
061	3	Part-Time Classroom		900	2,700	15	45
808	3	Material Storage		45	135		
		Subtotal			2,835		
062	3	Self Contained Classroom		900	2,700	10	30
808	3	Material Storage		45	135		
817	3	Restroom, Student		45	135		
		Subtotal			2,970		
063	1	Laboratory			1,140	12	12
808	1	Material Storage			45		
817	1	Restroom & Shower			110		
		Subtotal			1,295		
066	3	Supplementary Instruction with storage folded into room		200	600		
70	2	Office/Testing/Itinerant		200	400		
		Subtotal			1,000		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
065	3	ESE Resource Room with storage folded into room		520	1,560		
		Subtotal			1,560		
817	1	ESE Changing Room/Restroom			150		
308	1	ESE Department Storage			300		
		Subtotal			450		
		TOTAL			10,110		87
FOOD SERVICE							
340	1	Dining/Multipurpose (300 NSF to Custodial Golf Cart Storage)			6,915		
341	1	Kitchen (including office and restroom - prototype)			5,400		
349	1	Chair Storage			260		
316	1	Staff Dining/Lounge			850		
819/820		Staff Restrooms (out of allotment)					
815/816		Student Restrooms (out of allotment)					
		TOTAL			13,425		
GENERAL CLASSROOMS							
002	6	Classroom		900	5,400	22	132
808	6	Material Storage		45	270		
		TOTAL			5,670		132
LANGUAGE ARTS							
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
		TOTAL			8,505		198
MEDIA CENTER							
380	1	Reading Room/Stacks (to include Group Projects, Periodical Storage & Small Group Listening) (225 NSF from Tech Processing)			4,825		
381	1	Technical Processing/Library Media Specialist's Office (225 NSF to Reading/Stacks)			350		
382	1	Professional Library/Media Production/Copying Room			810		
383	1	AV Storage/Maintenance and Repair/CCTV Storage			1,060		
385	1	CCTV Studio - Production and Control (100 NSF from Stage Control Booth)(505 NSF for Studio & 505 NSF for Control)			1,010		
390	1	Resource Room for CCTV Studio			780		
819/820		Staff Restroom (out of allotment)					
		TOTAL			8,835		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MATHEMATICS							
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
		TOTAL			8,505		198
MUSIC							
075	1	Vocal Music Classroom			1,596	28	28
830	1	Ensemble Room			300		
831	1	Practice Room			70		
808	1	Reference Room/Material Storage			200		
833	1	Robe Storage			150		
315	1	Teacher Planning			100		
		Subtotal			2,416		
076	1	Band Classroom			2,000	45	45
830	1	Ensemble Room			300		
831	1	Practice Room			70		
808	1	Reference Room/Material Storage			200		
832	1	Instrument Storage			600		
834	1	Uniform Storage			300		
315	1	Teacher Planning			100		
		Subtotal			3,570		
		TOTAL			5,986		73
PHYSICAL EDUCATION							
090/091	2	Dressing Rooms		780	1,560		
092/093	2	Lockers		130	260		
094/095	2	Showers		130	260		
096/097	2	Drying		130	260		
098	1	PE Storage (200 SF to outside PE storage)	585		385		
815/816	2	Restrooms		130	260		
315	2	Teacher Planning		200	400		
099/100	2	Teacher Restrooms/Showers		66	132		
115	1	First Aid			130		
111	1	Gymnasium Floor			5,800	1	120
113	1	Gymnasium Seating			4,160		
120	1	Gymnasium Storage			195		
114	1	Laundry/Towel			130		
370	1	Gymnasium Lobby			650		
371	1	Concessions			200		
372	1	Ticket Booth			30		
822/823		Restrooms, public (from allotment)					
098	1	Outside PE Storage (from PE Storage)			200		
		TOTAL			15,012		120

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
RESOURCE ROOMS							
040	4	Resource Room with storage folded into room		599	2,396		
		TOTAL			2,396		
RESTROOMS (adjust square footage for FACBC and parity requirements)							
822/823		Public Restrooms			260		
815/816		Student Restrooms			1,950		
819/820		Staff Restrooms			520		
		TOTAL			2,730		
SCIENCE							
020	8	Science Demonstration/Classroom		900	7,200	22	176
020	1	Chemistry Demonstration/Classroom			900	22	22
808	9	Material Storage		100	900		
		TOTAL			9,000		198
SKILLS DEVELOPMENT LABORATORY							
011	3	Skills Development Laboratory		900	2,700	22	66
808	3	Material Storage		45	135		
		TOTAL			2,835		66
SOCIAL STUDIES							
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
		TOTAL			8,505		198
STAGE/SUPPORT							
363	1	Stage			990		
364	1	Stage Storage			650		
365/366	2	Dressing Room		325	650		
	1	Control Booth (to CCTV Studio-Production)	100		0		
		TOTAL			2,290		
STUDENT STORAGE (Lockers)							
		Student Personal Storage			650		
		TOTAL			650		
TEACHER PLANNING							
315	3	Teacher Planning		600	1,800		
		TOTAL			1,800		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION							
Approximately 6 labs (132 student stations & 14, 160 NSF) from Career Education can be included in a 1,300 student school							
BUSINESS							
210	2	Orient/Explore Business Laboratory		1,210	2,420	22	44
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
		TOTAL			2,920		44
FAMILY & CONSUMER SCIENCE							
230	1	Food Laboratory with kitchen			1,790	22	22
808	1	Material Storage			205		
		Subtotal			1,995		
230	1	Family & Consumer Science Laboratory (sewing)			1,540	22	22
808	1	Material Storage			205		
		Subtotal			1,745		
843	2	Shared Laundry Area (combined into 1)		50	100		
812	1	Shared Storage			200		
		TOTAL			4,040		44
PRE-MEDICINE							
250	1	Pre-Medicine Laboratory			1,012		22
808	1	Material Storage			100		
		TOTAL			1,312		66
TECHNOLOGY							
240	2	Orient/Explore Technology Laboratory		2,090	4,180	22	44
808	2	Material Storage		90	180		
849	2	Project Storage		310	620		
851	2	Tool Storage		310	620		
852	2	Technology Resource Center		800	1,600		
		TOTAL			7,200		44

For modernization of existing schools and other schools with a high concentration of special program needs additional teaching spaces may be provided through the use of Resource Rooms and ESE Rooms to meet program capacity per the approval on January 21, 2003 of the Charter District Waiver.

GENERAL CONSIDERATIONS

Use the following documents, as a minimum, in facility design, the latest edition of the Florida Building Code (FBC) with latest revisions, the Florida Fire Prevention Code (FFPC), the SDPBC Educational Specification, District Master Specifications (DMS), District Design Criteria (DDC) and State Requirements for Educational Facilities (SREF).

- A. **Security** - The design shall comply with the DDC – Architectural and Civil.
- B. **Flexibility** - Consider flexibility to allow for future program changes and expansions of the school plant.
- C. **Construction Techniques** - Consider fast and economical construction methods consistent with long-range maintenance and flexibility requirements of a permanent school plant. Refer to DDC - Architectural.
- D. **Heating, Ventilating and Air-Conditioning (HVAC)** – Design the system(s) in accordance with DDC – Mechanical and the related DMS sections in Division 15.
- E. **Plumbing** - Design the system(s) in accordance with DDC – Plumbing and the related DMS sections in Division 15.
- F. **Building Fire Protection** - Design the system(s) in accordance with DDC – Mechanical and the related DMS sections in Division 15.
- G. **Windows** – Provide windows and window treatment in accordance with DDC – Architectural.
- H. **Floors** – Provide floors in accordance with DDC – Architectural.
- I. **Walls** – Provide walls in accordance with DDC – Architectural.
- J. **Roof** - Provide windows in accordance with DDC – Architectural.
- K. **Corridors and Student Commons** - Corridor shall comply with the Florida Building Code, DDC and DMS.
- L. **Sound Treatment** - Acoustically-treated walls and ceilings shall be provided as necessary for the intended use of the space, refer to DDC - Architectural.
- M. **Hot Water** - Hot water shall be provided as indicated and per code, refer to DDC – Mechanical and Plumbing and DMS.
- N. **Lighting** - Classroom lighting shall be controlled with alternate switching of light fixtures. Provide lighting in accordance with DDC – Electrical and DMS.
- O. **Electrical** – Provide Electrical systems in accordance with DDC - Electrical and DMS.
- P. **Student Toilets** - Follow the DDC – Architectural and Plumbing for locating, designing and equipping student toilet facilities.

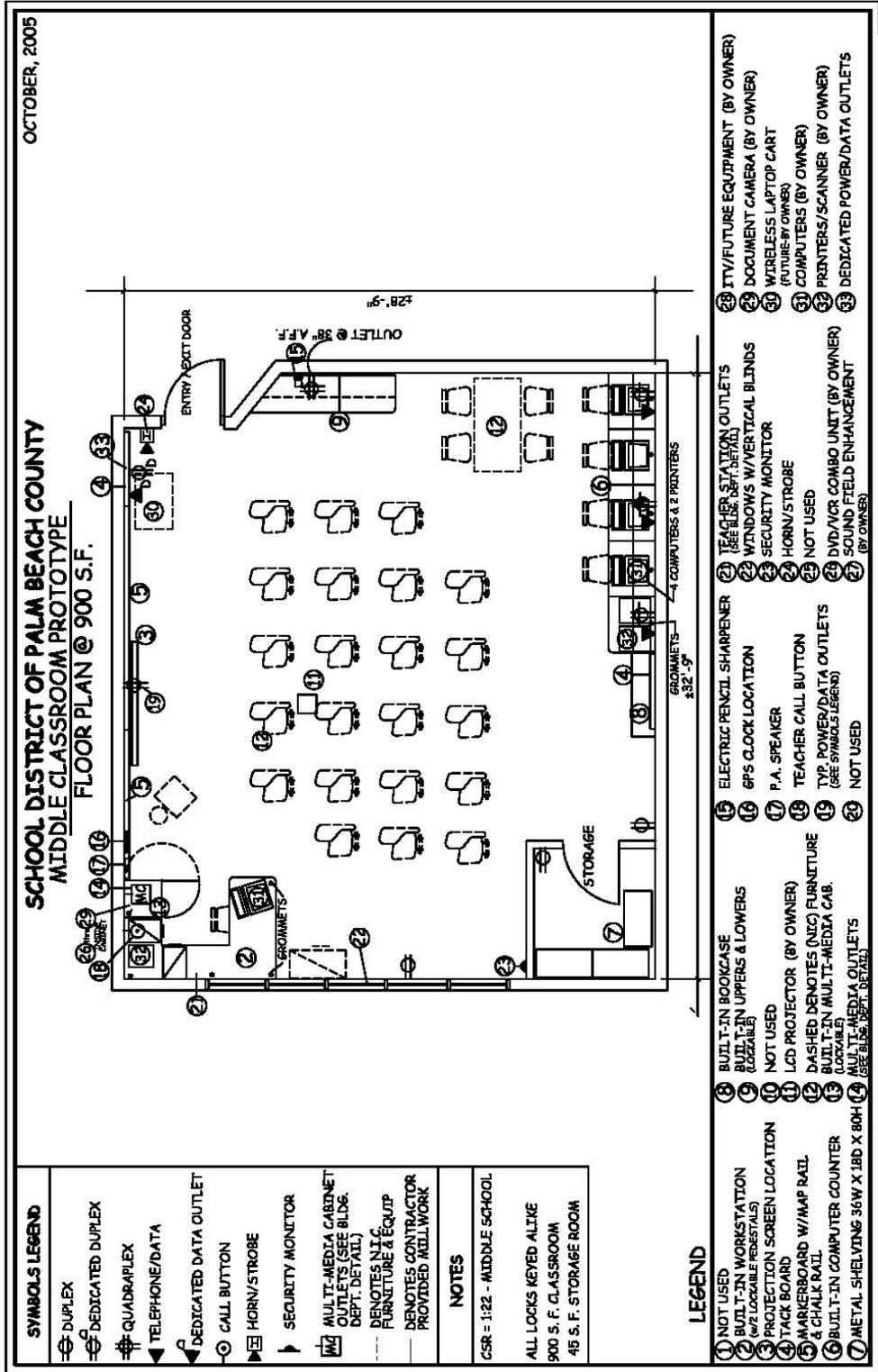
- Q. Entrances** - Entrance shall comply with the requirements if the DDC - Architectural.
- R. Lockers** - Lockers shall be located in air-conditioned corridors. Refer to DMS.
- S. Clock and Bell System** - Clock system shall be utilized throughout the facility and provided by the contractor. Bell system shall have automatic and manual operation.
- T. Intercommunications System** - Provide two-way intercom system in accordance with the DDC - Electrical.
- U. Instructional Television System** - Provide ITV system in accordance with the DDC – Electrical and DMS sections in Division 16.
- V. Colors/Finishes** - The exterior of the buildings shall use a maximum of three (3) different colors and the interior of the buildings shall use a maximum of four (4) different colors with one of the four interior colors serving as the accent color for the instructional space. Location of accent paint colors shall be in reception areas and spaces of student use. Accent color in a principal’s office is optional. Floor Patterns shall be applied in multi-use (cafeteria, media, corridors) and student occupied areas. Exterior materials and coatings shall be graffiti resistant and easily cleaned to the maximum extent practical. The architect shall submit finishing schedules and mill work for review and approval by the SDPBC’s Interior Design Coordinator.
- W. Display Case** - A built-in recessed display case with tackable backboard and controlled lights shall be located in the entrance foyer, music area, art area and media center. A built-in trophy case with tackable surface shall be located in the gymnasium. Provide safety glass. The recessed display case shall be 6’W x 4’H and 36” aff for a total height of 7’.
- X. Communications (Voice and Data)** – Provide Communication systems in accordance with the DDC - Electrical.
- Y. Safety** - Provide safety devices in accordance DDC, DMS and FBC.
- Z. Site Fire Protection** - Refer to DDC, DMS, FBC and FFPC.
- AA. Automobile Parking** - Provide parking in accordance with traffic control section, DDC – Architectural and Civil. Visitor parking shall be provided near the entrance to the administrative suite. .
- AB. Water Outlets** - Provide hose bibb in accordance with the DDC - Plumbing.
- AC. Potable Water** - Systems shall be designed in accordance DDC – Civil and Plumbing.
- AD. Pavement, Site Improvements** - Provide all pavement, markings, signage and other site improvements in accordance with DDC – Civil.
- AE. Sanitary Sewer** - Systems shall be designed in accordance with the DDC –Civil.

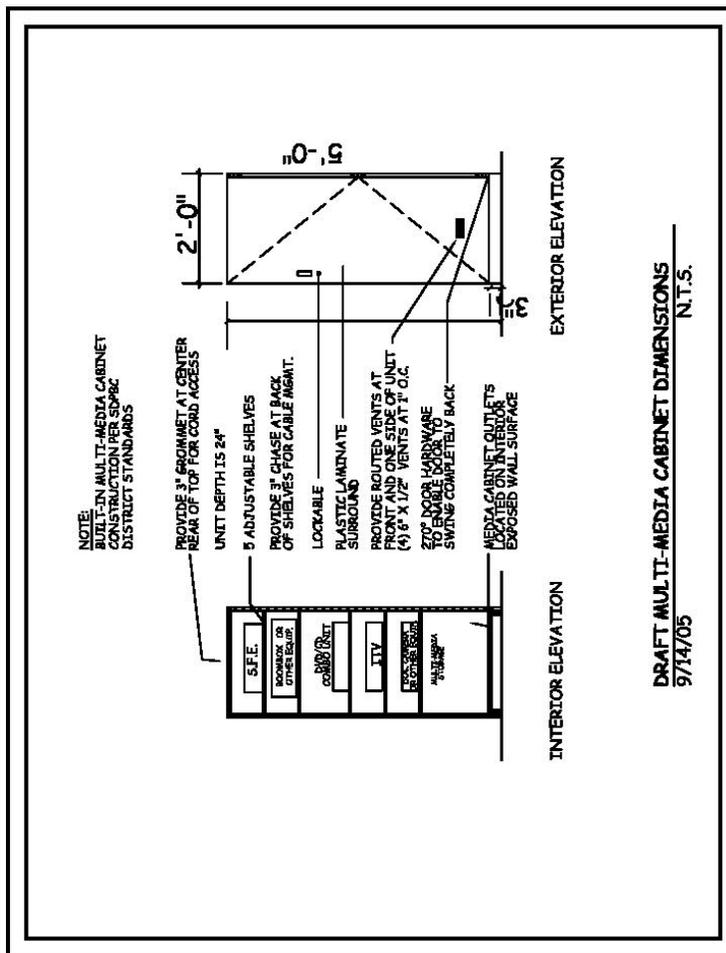
- AF. Storm Water Drainage** - Systems shall be designed in accordance with the DDC-Civil.
- AG. Irrigation Water** - Systems shall be designed in accordance with the DDC- Civil.
- AH. Structural** - Systems shall be designed in accordance with the DDC -Structural.
- AI. Bulletin Boards** - In addition to any bulletin boards specified in departmental specifications, the contractor shall provide eight lineal feet of tackboard in the corridor outside each classroom, computer/skills laboratory, resource room, music room, art room, career education classrooms, media center, cafeteria and administration. Bulletin (tack) boards shall not be less than 36" vertical measurement.
- AJ. Ceiling Heights** - Ceiling height shall be in accordance with the DDC - Architectural.
- AK. Crowd Control** - The design shall reflect good crowd control. Consideration shall be given to large groups that enter and leave the site at times of public and school events.
- AL. Energy Conservation** - The building and its systems shall be designed in accordance with the DDC - Mechanical:
- AM. Community School** - The general plan and campus design shall be arranged to permit and facilitate use of all appropriate school facilities by community agencies when these spaces are not in use for the regular school program. Community school considerations include ready access from parking lots to all athletic and recreational facilities, meeting rooms, music facilities, media center, cafeteria and community school coordinator's office. Offices(s) shall be located near the parking lot with adequate lighting and natural surveillance.
- AN. Exterior Building Materials** - Major exterior building materials shall be fully documented in the design phase of project development for review and approval by the SDPBC Superintendent or his/her designee. Exterior materials and coatings shall be graffiti resistant and easily cleaned to the maximum extent practical. Refer to the DDC – Architectural.
- AO. Instructional Technology**- Provide conduits, wiring, data outlets and receptacles for computer network requirements. Provide spaces and special air-conditioning for computer- related electronics. Refer to DDC.
- AP. School Site and Play Fields** - The school site and play fields shall be designed in accordance with DDC – Architectural and Civil.
- AQ. Working Heights** - Provide built-in equipment and furnishings in accordance with DDC - Architectural.
- AR. Ventilation** - Design Ventilation system in accordance with the DDC - Mechanical.
- AS. Program Furniture and Equipment** - Program furniture and equipment list, in this

document, is a design guide for determining space requirements and it is not intended to be used as an ordering guide. Use existing furniture and equipment where possible.

- AT. Natural Gas** - Refer to DDC - Plumbing.
- AU. Design Notebooks** - Refer to DDC - Mechanical.
- AV. Communications Room** - Every facility shall have one Communication Equipment Room (CER) and several Communication Closet Rooms (CCR) as necessary to comply with the DDC – Electrical and Mechanical.
- AW.** The Architect/Engineer shall request a clarification from the Senior Project Administrator (SPA) of any conflicts between the Educational Specifications, DDC or DMS.
- AX.** For middle schools, contractor to provide a lighted double sided marquee/school sign, 5’x10’ in size, with adequate electrical service stubbed out for future wireless LED message area upgrades.
- AY.** Contractor to provide and install flag pole holders with proper backing in all necessary areas. Contractor to provide and installed AV screens and brackets with proper backing in all necessary areas. Provide proper backing for all mounted equipment where necessary.
- AZ.** Each school shall have a lightning detection device system.
- BA.** All built-in counters shall be wire management holes (grommets) to service telephones and computer hook-ups.
- BB.** When possible, the “head-in” equipment shall be located in the production room in the Library Media Center. The equipment should not be located in the control room of the CCTV studio.
- BC.** Schools under modernization and/or comprehensive addition shall have the interior signage comply with the building and room numbering of the School District’s guidelines. Room names and numbers on signage shall be coordinated with SDPBC Interior Design Coordinators.
- BD.** Contractor to provide a 30’ high flagpole with two complete rope systems. The flagpole shall be located near the main office/administration.
- BE.** Refer to the DDC – electrical and DMS with regards to conduit and junction box for sound field enhancement system and LCD Projector.
- BF.** Refer to the DDC – electrical and DMS with regards to ceiling projectors raceway system. Contractor to provide ceiling projectors raceway system with all necessary wiring and properly supported projector mounting brackets in all instructional spaces and other designated areas. Obtain the latest detail of installation and specifications from the District’s Network Services Department.

- BG.** For the latest requirements and locations of the Multimedia Cabinet, Teacher Station connectivity, Sound Field Enhancement and LCD Projector contact Department of Educational Technology and refer to DDC and DMS.
- BH.** Classrooms, instructional areas and other designated areas shall be equipped with built-in Multimedia Cabinets, provided by the contractor, to house ITV equipment, DVD/VCR, Sound Field Enhancement, Document Camera and other multimedia equipment. The Multimedia Cabinet shall be 24”w x 24”d x 60”h with a 270° hinged lockable door; open back for access to outlets located on the wall; five (5) adjustable shelves with 3” chase for wire/cord wire management; routed vents at front and one side of unit 4 – 6”x1/2” vents at 1” O.C. and 3” grommet on top of unit in center of cabinet. (Refer to prototype classroom and prototype Multimedia Cabinet drawings)
- BI.** Classrooms, instructional areas and other designated areas shall be equipped with built-in workstation, provided by the contractor. The workstation shall include a U shape work area with three (3) grommets and two (2) lockable pedestals (box/box/file and file/file). (Refer to prototype classroom drawing)
- BJ.** The Beacon Center provides after school programs along with community activities for the surrounding neighborhood. If a school has been identified to operate a Beacon Center, the architect shall provide an administrative office (175 NSF) with data, electric, phone and fax line and a storage room (250 NSF) with data, electric and phone from the overall dining room/multipurpose NSF. Both spaces shall be lockable. The storage room will be used as a storage room and a place to connect and charge the wireless laptop computer cart(s). Both the office and storage room shall be located near the entrance of the school with an entrance that is separate from the main office. The architect shall work with District staff with regards to the placement of the Beacon Center on the plans. The dining room/multipurpose shall be equipped with a wireless computer system.
- BK.** Each school shall have an Automated External Defibrillator which will be provided by the owner. The location and signage will be determined by the SDPBC Risk Management Department.





GENERAL SECURITY CONSIDERATIONS

- A. Meet with SDPBC Department of School Police at first stage, site and building layout development, to discuss project specific security issues.
- B. The area for loading/unloading of students shall be designed for easy supervision with no mixture of pedestrian and vehicles.
- C. Open parking areas shall have good natural surveillance. Provide a fenced staff parking area that can be locked during the day where local conditions warrant.
- D. Site access shall consist of a primary road and secondary access in the event the primary road is blocked.
- E. School sites shall have perimeter security fencing preventing access to walkways and courtyards when facility is not occupied, but allow for public use of exterior athletic facilities. Design exterior doors to prevent unauthorized entry by minimizing key locks and hardware on doors which would not be used for the purpose of essential entry but are installed for emergency egress.
 - 1. Doors which are determined to be essential entry shall be provided with key access and include card access control and hardware as per current SDPBC policy, guidelines and the project specific plan review process.
 - 2. Entire perimeter of site shall be fenced or wall barriered and gated to a minimum height of six (6) feet. Provide the delivery/receiving/service entry gates(s) with electric latching/lock hardware and all associated hardware to allow the control of it from the card access system.
 - 3. Create an interior perimeter barrier so that all open area students and staff commons and their thoroughfares, i.e. courtyards, areas between buildings, portable classrooms, PE fields, etc. are blocked from entering except through an access controlled main public entry. Create a structurally mounted set of metal entry doors in the interior perimeter barrier to become the focal point of all public entry. These doors shall be located in the entry thoroughfare between the visitor parking area and the administration reception area. At the public entry, provide card access, video surveillance; remote intercom and electric controlled lock hardware as per current SDPBC policy, guidelines and the project specific plan review process. All other egress points through this open area interior perimeter barrier shall have the same type of structurally mounted metal entry doors. No fence gates allowed.
- F. Use maze-type of entry system to restrooms where appropriate, i.e., gymnasium. Do not use maze-type of entry for exterior locations.
- G. Bicycle parking compound shall be located in an area with good natural surveillance and have an 8' fence. Provide racks to which bicycles can be locked. Should be visible from office staff or classroom windows.
- H. When designing courtyards, consider physical division of space, i.e. benches, planters,

to avoid congregation of large groups of students and to allow smooth flow of traffic. Position amenities to create multiple access and passageways. Planters shall not be placed in such a way as to allow its contents to block clear vision of common areas and courtyards. Limit the heights of all trees and shrubbery that are planted between the buildings and all thoroughfares, congregate areas, bike and auto parking spaces, courtyards, portables, entry/exit points throughout the interior perimeter barrier, playfields, etc. to not exceed three feet (3'), for a distance of fifty feet (50'). Consideration should be taken when locating landscaping to assure that it will not block lighting.

- I. Locate teacher planning areas throughout the campus to provide supervision for potential problem areas. Acceptable locations are at ends of buildings and center of hallways.
- J. Provide zoned lighting to allow for security during community school activities at night. Consider use of motion detector lights in isolated areas.
- K. Design roofs without obstructions that could conceal persons from view. Roof access shall be properly secured and lockable.
- L. Provide two (2) KNOX box for emergency key access to the site and building(s), one for school police and one for fire department. Coordinate with local fire department and district personnel.

SITE DEVELOPMENT

- A. All site plans shall comply with SDPBC **Technical Requirements Manual for Site Plans.**
- B. **Refer to District Design Criteria (DDC).**
- C. A landscaping plan shall contribute to the development of a balanced and harmonious appearance of the educational complex. Landscaping shall be based on surveys of existing plants on the site and a palette of species of plants native to the vicinity. Plantings shall be site specific with special consideration given to minimizing supplemental irrigation systems, energy efficiency and maintainability of the designed vegetation systems, from installation to maturity. Supplemental irrigation systems to be used shall provide for total coverage of landscape areas. Where practical, minimum plant sizes and maximum spacing shall be used. Landscaping shall be in compliance with State Requirements for Educational Facilities Guidelines.

TRAFFIC CONTROL

The following traffic-related activities occur on the school site:

1. Approximately, 15 - 25 school buses will enter and exit the site at the beginning and end of each school day.
2. Approximately, 150 staff will enter and exit the site daily.
3. Service and visitor vehicles will enter and exit the site daily.
4. Private vehicles and spectators attending extra-curricular activities will enter and exit the site periodically.

Proper signage should be included to delineate each area. Signage and bumpers for parking spaces shall be provided by the contractor.

Specific consideration shall be given to the following:

1. Approximately, 160 parking spaces shall be conveniently located for staff, visitors and service personnel. Ten of these to be convenient to the kitchen. Parking locations shall be located on-site and/or off-site.
2. Visitor parking shall be provided near the administrative suite and will naturally lead to the administrative suite reception entry.
3. A fenced parking area with lockable gate for bicycles shall be provided.
4. Student pedestrian traffic to playfields shall not cross any vehicular traffic area.
5. Refer to **District Design Criteria (DDC)**.

ADMINISTRATIVE/STUDENT SERVICES/GUIDANCE

I. PROGRAM PHILOSOPHY

Refer to overall.

II. PROGRAM GOALS

Refer to overall.

III. PROGRAM ACTIVITIES

- A. Student conferences/counseling
- B. Parent conferences/counseling
- C. Secretarial and clerical duties
- D. Bookkeeping duties
- E. Duplicating of materials
- F. Health clinic
- G. Office activity for:
 - 1. Principal
 - 2. Assistant Principal
 - 3. Curriculum Coordinator
 - 4. Assistant Principal for Student Services
 - 5. Counselor (4)
 - 6. Itinerant (2)
- H. Workroom area
- I. Attendance reporting
- J. Storage and filing
- K. Distribution of mail
- L. Intercom center
- M. Data processing

IV. ORGANIZATIONAL NOMENCLATURE

N/A

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Administrative areas shall be located in academic houses.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. The two school police offices shall have views of the main congregate area of the campus. The video surveillance monitoring equipment room shall be handicapped accessible, lockable, and with no windows. These three spaces shall be keyed separately and located so that radio communications do not interfere with computer/data processing.

- B. 300 NSF from General Reception/Secretary to Student Service Reception/Secretary and 300 NSF to Academic House Reception/Secretary.
- C. 50 NSF to Principal’s office and 300 NSF to Student Service Conference Room from Administrative Conference Room. The remaining NSF to be split into two conference rooms in Administrative area.
- D. 300 NSF to Academic House storage/vault and 100 NSF to Student Service storage for Administrative Storage.
- E. 150 NSF to Academic House Textbook for Administrative Textbook.
- F. Academic Houses shall include the following: Administrative Office, Itinerant, Reception/Secretary, Storage/Vault, Textbook Storage, Teacher Planning and Restroom(s).
- G. Combine Career Room and Student Activities into one space.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ADMINISTRATIVE							
300	1	Principal (50 NSF from conference room)	250		300		
301	4	Administrative Office		175	700		
302	1	Bookkeeper			175		
303	1	Principal’s Secretary			175		
304	1	General Reception/Secretary (300 NSF to Student Services Reception/Secretary & 300 NSF to Academic House Reception/Secretary & Storage/Vault)	1,158		558		
305	1	Production/Workroom			520		
306	2	Conference (50 NSF to principal, 300 NSF to Student Services Conference and remaining NSF to be split into 2 conference rooms)	910		560		
308	1	Administrative Storage (300 NSF to Academic House Storage/Vault & 100 to Student Service Storage)	650		250		
310	1	School Store			130		
312	1	Computer Area/Data Processor			195		
368	1	Textbook Storage (150 NSF to Academic House textbook)	455		305		
314	1	Itinerant			125		
301	1	Video Surveillance			150		
301	2	Office for School Police		150	300		
819/820		Restrooms, staff (out of allotment)					
822/823		Restroom, public (out of allotment)					
		Subtotal			4,443		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				STUDENT SERVICES/GUIDANCE			
307	1	Clinic (Board approved prototype)			653		
309	1	Records/Vault			390		
306	1	Conference (from administrative conference)			300		
301	3	Administrative Office		175	525		
314	1	Itinerant/Attendance Clerk			125		
313	1	Student Activities Area/Careers Room (Combine into 1 space)			1,040		
304	1	Reception/Secretary (300 NSF from General Reception & 158 NSF for secretary)			458		
308	1	Student Service Storage (from Administrative Storage)			100		
		Subtotal			3,591		
ACADEMIC HOUSES							
301	3	Administrative Office		175	525		
314	3	Itinerant		125	375		
304	3	Reception/Secretary (NSF from General Reception/Secretary & 450 NSF for Secretary)		225	675		
308	3	Storage/Vault (from Administrative Storage & General Reception/Secretary)		150	450		
368	3	Textbook Storage (from Administrative Textbook Storage)		50	150		
315	3	Teacher Planning (from allotment)					
819/820		Restrooms, staff (from allotment)					
		Subtotal			2,175		
		TOTAL			10,209		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Principal's Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
4-6		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1		X	Table, round, 42"-48"
1	X		Tack board, 3' x 4'
1	X		Clock

B. Administrative Offices; School Police, Principal's Secretary, Itinerant; Bookkeeper; Attendance Clerk & Data Processor

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
2		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1	X		Tack board, 3' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Administrative Office in Student Services

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
2-4		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1		X	Small table for group activities
1	X		Tack board, 3' x 4'
1	X		Clock

D. Reception/Secretary Area (per area)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5		X	Chairs for visitors
1		X	End table
1		X	Computer & Printer
1		X	Bookcase
1	X		Recessed Display Case, 6'W x 4'H (located in main and student service reception areas)
1	X		Tack Board, 3' x 4'
1	X		Clock
2		X	Brochures/Magazine racks, wall mounted
	X		Built-ins (refer to special considerations)

E. Production/Workroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Collator
2		X	Copier
1		X	Paper cutter
4		X	Work table

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	Chairs
1	X		Double sink with goose neck faucet (HW/CW)
2		X	Vending machines
1	X		Refrigerator, residential, 18-20 cubic ft
1		X	Microwave
1		X	Computer
1		X	Printer
1		X	Time Collection Device
1	X		Tack board, 4' x 6' (located near staff mailboxes)
1	X		Staff mailboxes (120 minimum) set on a 30"H x 24"D counter with larger cubby/mailboxes underneath to receive large packages. Mailboxes shall be 12"w x 14"d x 4"h clear inside. The mailboxes structure should not exceed 6' in height.
1	X		Drop Safe (refer to built-in for details)
1	X		Clock
	X		Built-ins (refer to special considerations)

F. Conference Room (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Conference table
12		X	Conference chairs
1	X		Marker Board, 4' x 8' with tack strip
1	X		80"w x 60"h video format screen with black masking borders
1	X		Clock
	X		Built-ins (refer to special considerations)
1	X	X	LCD Projector (Principal's conference room)
1	X		Small version of Multimedia Cabinet with teacher station connectivity (Principal's conference room)
1	X	X	Sound Field Enhancement (Principal's conference room)

G. Clinic

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5		X	Cots
4	X		Cubicle curtains on track for cots
5-6		X	Straight chairs
1		X	Desk/workstation
2		X	Task Chair
1		X	Medical Scale
2		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Rolling supply cart/ Table Cart
1		X	Hazardous Waste Disposal and Trash Receptacles
1		X	Sharp's Container
1		X	Utility Table
1	X		Refrigerator with icemaker, residential, lockable, 21 cu. ft.

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Double Lockable Metal Narcotics cabinet
1	X		Supervision Mirror
1	X		Fold down changing table
1	X		Sink with eye wash at nurse station (HW/CW)
2	X		F.A.C.B.C. Shower with no curb and with fold down seat in shower
2		X	Computer
2		X	Printer
1	X		Clock
1	X		Tack Board, 2'x4'
	X		Built-ins (refer to special considerations)

H. Administrative Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Stamp machine
		X	Two-way radios
1		X	Radio charger
2	X		Storage cabinet with shelves
	X		Built-ins (refer to special considerations)
1		X	Barcode reader and scanner for textbooks

I. Records (minimum 1 hour fire rating)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10		X	File cabinet, four-drawer, legal, lateral, lockable or moveable high density filing system
1		X	Metal storage cabinets, with adjustable shelving
1	X		Key cabinet, lockable, mounted
1		X	Computer
1		X	Printer
1		X	Workstation/desk
1		X	Copier
1		X	Work Table
1		X	Fax Machine
	X		Built-ins (refer to special considerations)

J. Student/Activities/Career Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	File cabinet, four-drawer, legal, lateral, lockable or moveable records filing system
25		X	Chairs, stackable
1		X	Activity Table
1		X	Desk/workstation with chair

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Computer
2		X	Printer
1		X	Copier
1	X		Teacher storage cabinet, lockable, 36"W x 30"D x 72"H, cabinet, with adjustable shelving, lockable
1	X		Periodical storage/bookcase
2	X		Tack board, 4' x 4'
1	X		Marker Board, 4' x 16', with map rails and flag holder
1	X		80"w x 60"h AV format screen with black ribbing
1	X		Clock
	X		Built-ins (refer to special considerations)

K. School Store

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Computer
1		X	Printer
		X	Vending machine(s)
1	X		Tack board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

L. Textbook/Testing Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Barcode reader and scanner for textbooks
1		X	Computer
1		X	Printer
2-4		X	Activity Table
1	X		Built-ins (refer to special consideration)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. **Heating/Cooling/Ventilation** – As required to meet District Standards.
- B. **Acoustical** – As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Carpeting is limited to principal's office. Provide continuous sheet vinyl for the floor and baseboard in the clinic.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.

- F. Lighting** – As required to meet District Standards. Provide high quality, fluorescent lighting, with capability of separate switching of rows of lights.
- G. Windows** – As required to meet District Standards. No windows in the video surveillance room. Provide roll-up window to the outside for itinerant/attendance clerk office. Provide observation window between Nurse’s Station and cot area and between Counsel Room and cot area in the clinic. The nurse should be able to see through the window either sitting or standing position.
- H. Doors** - As required to meet District Standards. Provide larger door in the administrative storage area and entrance to the administrative building. Second exit from principal's office shall be provided. Records room shall be fireproof.
- I. Water/Plumbing Fixtures** - As required to meet District Standards.
- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards.
- L. Instructional Technology** – As required to meet District Standards.
- M. Gas and Air** - N/A
- N. Safety** – As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards.
- Q. Parking** - As required to meet District Standards. Parking for administrators, secretarial staff and visitors near administrative offices with easy access at all times during the day.
- R. Built-ins**
1. **Administrative Reception/Secretary; Student Service Reception/Secretary & Academic House Reception/Secretary** - Provide reception counter with transaction top and a section to comply with F.A.C.B.C. standards. Provide working counter, 29”-30” h, along reception counter with a minimum of two lockable pedestals and center drawer. The space between working counter and transaction counter shall be 12” clear height to hold notebooks. The reception counter shall have grommets for wire management.
 2. **Production/Workroom** - Provide counter space, with cabinets with doors, adjustable shelving and lockable above and below counter. Counter, 34”H base cabinet, 24”D; upper cabinet, 18”D, located on longest wall in workroom, F.A.C.B.C. compliant.

Provide Drop Safe - for the safety of bookkeepers and money handlers, drop safe shall be installed in non-conspicuous location (production/workroom), non-visible to the general public and students but easy access to principal and bookkeeper. Model shall be approximately 27-5/16"H x 24-7/16"W x 25-1/2"D. Safe shall be provided with a hopper to drop money pouches. Hopper shall be approximately 6-1/4"H x 7-3/4"W x 13-1/2"D. The safe shall be bolted to the floor.

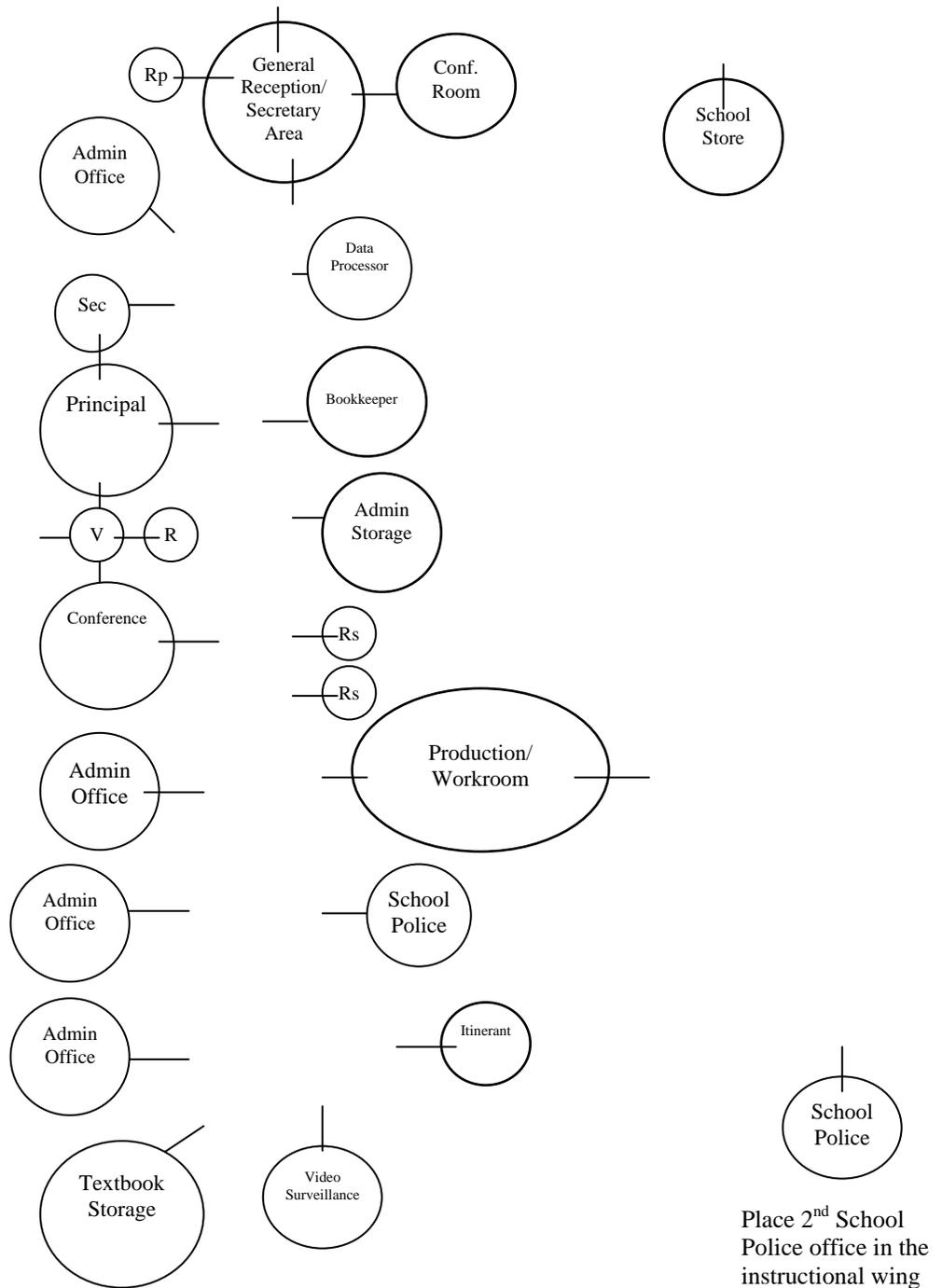
3. **Clinic** – Refer to Board Approved Prototype clinic for built-ins.
4. **Data Processor/Computer Area** – Provide counter workspace with cabinets, lockable doors, 30"H x 28"D, on one wall with desk in corner. Open shelving with fixed ends above counter and on opposite wall.
5. **Career Room/Student Activities Room** – Provide computer counter with grommets and open, adjustable shelving, above counter.
6. **Textbook Storage** – Provide maximum steel shelving with adjustable shelving on all walls. Provide free-standing shelving for center area allowing for adequate passageway.
7. **Administrative Storage** – Provide adjustable shelving, continuous, 18"D on all walls, full height.
8. **Conference Room** - Provide 8' of base cabinet with sink, lockable doors and adjustable shelving, 34"H, along short wall of room, with upper cabinets with lockable doors and adjustable shelving, 12" clear inside depth.
9. **School Store** – Provide sales counter and wall shelving floor to ceiling, slanted and facing towards the sale counter.

S. Other Considerations –

1. School Police Officer shall be located so that radio communications do not interfere with computer/data processing.
2. Vault/record room shall be a one-hour rated enclosure.
3. Provide electric, phone and data in the vault/records, textbook storage and administrative storage.
4. Provide electric, phone and data in all rooms (including storage) in each Academic House.

SPATIAL RELATIONSHIPS

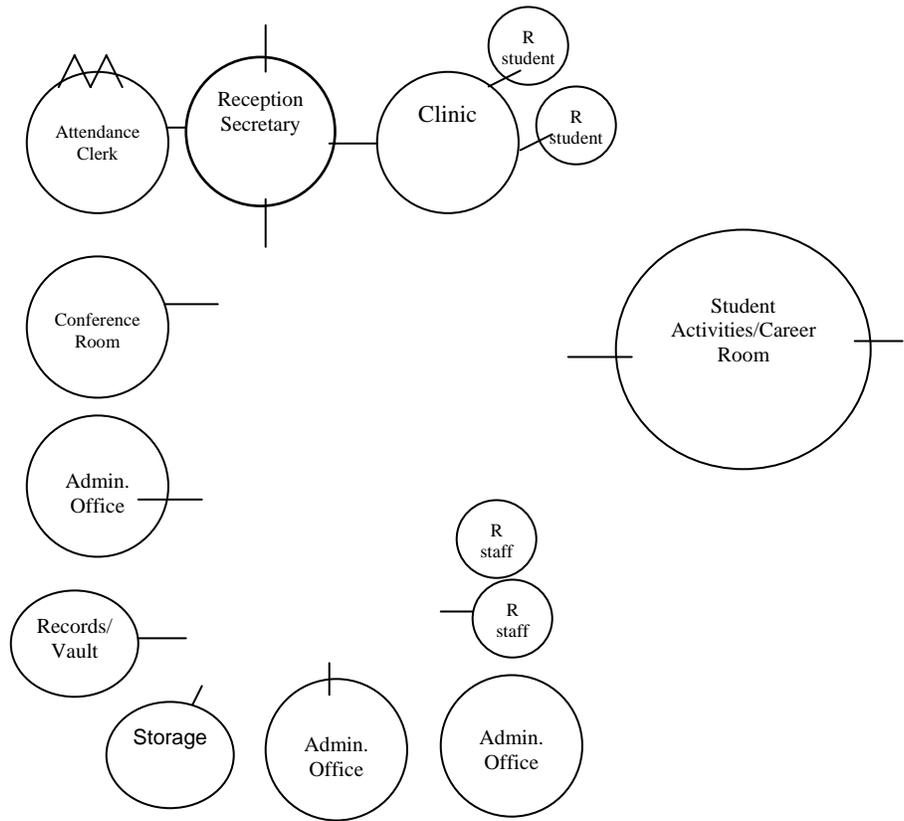
Administrative



Rs = Restroom, staff
Rp = Restroom, public

SPATIAL RELATIONSHIPS

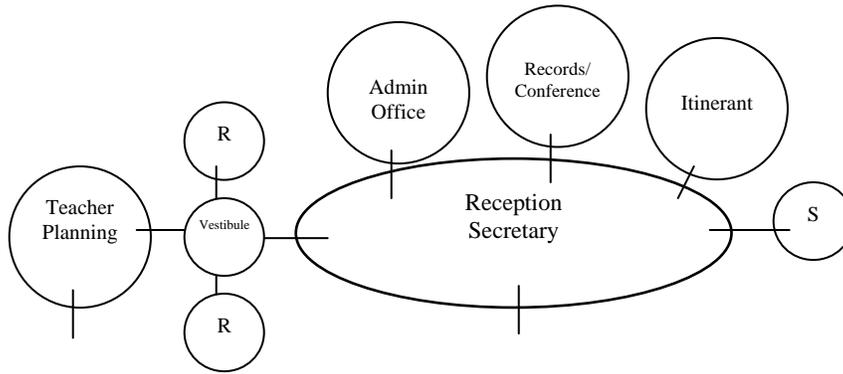
Student Services



R = Restroom

SPATIAL RELATIONSHIPS

Academic Houses



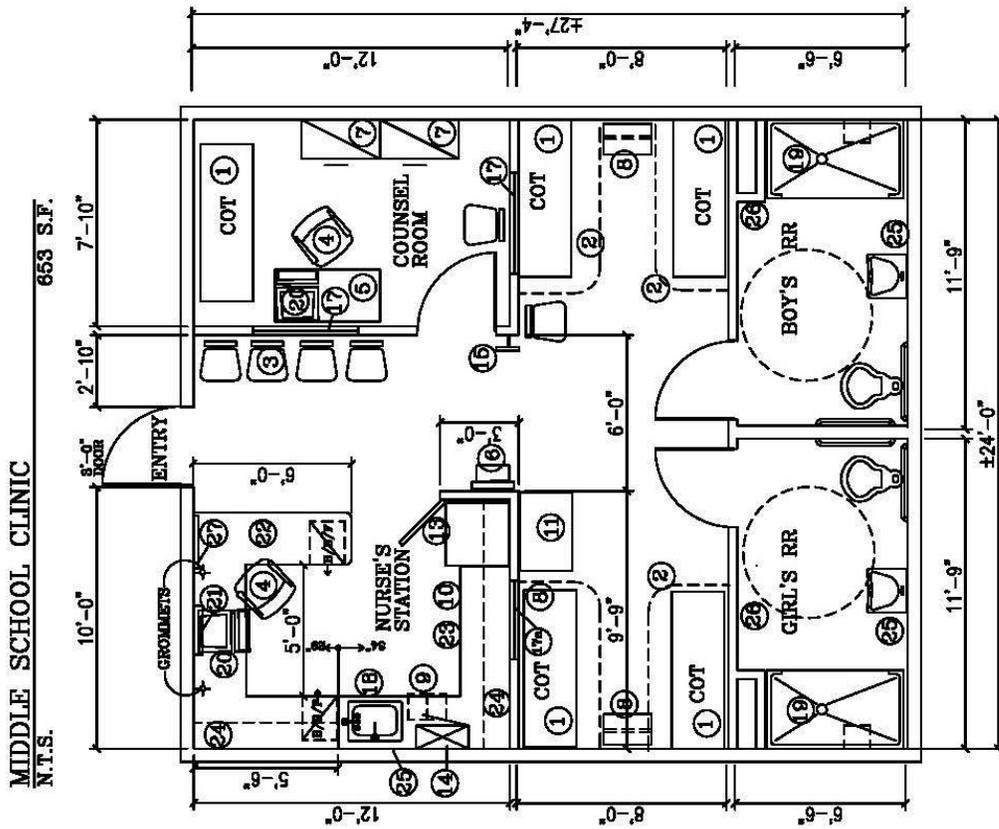
R = Restroom
S = Storage

R = Restroom

LAST REVISED - 4/30/04

EQUIPMENT LEGEND

- 1 6 COTS (ONE INSIDE COUNSEL AREA)
- 2 CURTAIN CURTAIN ON TRACK FOR CURTAIN CURTAIN TO START @ 12" A.F.F. (INCLUDES COUNSEL AREA)
- 3 STUDENT CHAIRS
- 4 NURSE'S TASK CHAIR
- 5 30"X60" DESK (IN COUNSEL AREA)
- 6 BALANCE BEAM MEDICAL SCALE
- 7 8-HIGH LATERAL FILE / LOCKABLE
- 8 ROLLING SUPPLY / TABLE CART (W/OUTLETS DIRECTLY BEHIND ON BACK WALL - MOUNTED @ 36" A.F.F.)
- 9 HAZARDOUS WASTE DISPOSAL & TRASH RECEPTACLES (UNDER COUNTER)
- 10 SEALER'S CONTAINER (MOUNTED INSIDE INTERIOR DOOR OF CAB)
- 11 24" X 36" UTILITY TABLE (W/OUTLETS DIRECTLY BEHIND ON BACK WALL - MOUNTED @ 36" A.F.F.)
- 12 NOT USED
- 13 FULL HT. LOCKABLE REFRIG. & LOCKABLE FREEZER W/ICE/MAKER 21 CU. FT., (VERIFY DIM. OF EQUIP. W/MILLIFORK CONT.)
- 14 DEL. LOCKABLE METAL NARCOTICS CABINET DIM'S OF 24"W. X 10"D. X 30"H.
- 15 SUPERVISION MIRROR, MOUNTED @ 7' A.F.F.
- 16 NOT USED
- 17 FIXED OBSERVATION WINDOW ± 36"W. X 46"H. CENTERED ON WALL - W/VERT. BLINDS
- 18 FIXED OBSERVATION WINDOW- BETWEEN UPPER & LOWER CABINETS/RECEPTACLES ±30" X 36-38" IN LENGTH CENTERED ON WALL
- 19 COUNTERTOP @ 34" A.F.F. W/36" X 36" SINK (NS/NT) COMPOSITE FACED W/ATTACHED SIDE SWING PARKING SLANT PANEL BELOW COUNTER TO CONCEAL PLUMBING
- 20 ADA PRE-PAR SHOWER W/NO CURB - FOLD DOWN SEAT IN SHOWER
- 21 COMPUTERS & PHONES (OUTLETS @ 16" A.F.F.)
- 22 CLOCK & P.A. SYSTEM - ABOVE COMPUTER @ NURSE'S STATION
- 23 COUNTERTOP @ 36" A.F.F. TO INCLUDE: GROMMETS, (2) BOX/BOX FILE FEDESTALS
- 24 BASE CABINET STORAGE W/DOORS - 34" A.F.F. W/ADJ. SHELVES -
- 25 UPPER CABINET W/DOORS & ADJ. SHELVES
- 26 LOCATION OF SOAP /PAPER TOWEL DISPENSER ADJACENT TO SINK
- 27 LOCATION FOR WHEELCHAIR STORAGE
- 28 2' X 4' TACKBOARD @ NURSE'S STATION



GENERAL NOTES

- ALL CABINETS TO BE LOCKABLE
- HOMOGENEOUS SHEET VINYL FLOORING IN CLINIC/COUNSEL RM.
- CERAMIC TILE FLOORING IN RESTROOMS
- DOORS TO RESTROOMS TO BE 48" MIN. CLEARANCE
- ALL RESTROOMS TO MEET A.D.A. REQUIREMENTS PER FL. BLDG. CODE 8001
- PLEASE SEE FF&E MANUAL FOR CONTRACTOR PROVIDED ITEMS

ART

I. PROGRAM PHILOSOPHY

Students will perceive and respond to aesthetic qualities found in Art, value Art experiences as an important realm of human activity, be actively involved in art production and know about the Arts and their relationships to the environment and our cultural heritage. Students will make and justify judgments about the aesthetic qualities and merits of Art objects and artistic production.

II. PROGRAM GOALS

- A. Perceive and respond to Art qualities.
- B. Value Art as an important realm of human experience.
- C. Produce works of Art.
- D. Know and understand the significance of Art content and the relationships that exist between Art and other disciplines.
- E. Make and justify judgments about aesthetic qualities and merits of works of Art.

III. PROGRAM ACTIVITIES

The Art program includes the study of basic elements, principles, concepts and theory of Art. All areas of the Art program will be included such as viewing, producing, critiquing and studying Art History.

A. Art Production

1. **Production** - experience and communicate expressive qualities through the use of the flowing process and media.
2. **Drawing** - pastels, charcoal, markers, pencil, wax and oil crayon, wash, ink and related materials.
3. **Painting** - water color, acrylics and tempera.
4. **Printmaking** - intaglio, relief, silk screen and computer.
5. **Fiber Arts** - weaving, batik, dyeing and stitchery.
6. **Ceramics** - pinch, coil, slab, wheel, glazing and firing techniques.
7. **Sculpture** - relief and in-the-round.
8. **Construction** - stage sets, video production, collage, architecture, etc.

9. **Photography** - developing, printing, reproduction, and video production.

B. Critique - Evaluate their own works and the works of others. Display and exhibit.

C. History/Art Appreciation - Study Art objects and artists through the use of, slides, reproductions, books and video tapes.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:28

Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

A. Hard surface patio area of, approximately, 1200 sq. ft. The patio shall be accessible from each laboratory and shall have planting areas for greenery and adequate drainage. A "lattice effect" patio cover shall be provided that is stable enough to support hanging plants, sculpture (150 lbs. max.), etc. Roof overhang shall be 8'.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. Combine the two kiln rooms into one kiln room.

B. The Art Laboratory connected to the kiln shall be set up as the pottery lab.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ART							
051	2	Laboratory		1,176	2,352	28	56
805	2	Kiln (combined into 1)		60	120		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
TOTAL					2,972		56

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory (per laboratory)

1 laboratory for pottery and 1 lab for drawing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30-32		X	Wooden stool
8		X	Art Table, 60" x 42" x 29", all purpose, waterproof, with glides on feet of table legs
1		X	Mat cutter, 30" x 40"
2		X	Drying rack, 31"x48", portable, 50 drying shelves, on wheels
1		X	Wall Display assembly, high density, 25-hinged panel posts for 50 display panels
1		X	Double wedging, sculpture station top, 48" x 26", top with backboard, 61"h (Pottery Lab)
1		X	File cabinet, four-drawer, legal, lateral, lockable
4		X	Potter's wheel (3), electric & (1) FACBC accessible (Pottery Lab)
4		X	Spotlight, portable
1		X	Computer and printer for teacher
4		X	Computer
2		X	Printer
2	X		Stainless steel, trough style sink with separate goose neck faucets (CW) and separate clay traps. (in pottery lab, locate adjacent to pottery wheels)
1	X		Marker board, 4' x 16' with map rail and flag holder
2	X		Tack boards, 4' x 8'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Cabinet, 84"H x 56 - 60"W x 24"D, with two doors, with 11 shelves, each side, adjustable
4	X		Cabinet, 84"H x 56 - 60"W x 24"D, with two doors, with five shelves, each side, adjustable, and lockable
2	X		Storage cabinets for at least 100 tote trays, lockable doors, 4'W x 6'H x 22"D.
1	X		Craft project table with chemical resistant top and two, medium-duty clamp vises with cabinets below
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Kiln Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Cart, two shelves
1	X		Utility tub (HW/CW) with clay trap
2	X		Kiln, electric, temperature control, three-tiered, automatic setter and necessary kiln furniture.
1	X		Damp cabinet
	X		Built-ins (refer to special considerations)

C. Material Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Computer and printer
1		X	Complete set of hand tools, e.g., saw, hammer, pliers, etc.,
2		X	Cart storage, on casters, tight-fitting top, metal-lined
1		X	Cart for storing two dimensional reproductions, minimum interior, 24" x 30"
1	X		Cabinet, double door, lockable
1	X		Divided cabinet, 84"H x 56"W x 28"D. One side to have four adjustable shelves, two shallow drawers, and one deep drawer. Other side to have three open shelves.
1	X		Flammable storage cabinet
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards. Floor shall colored sealer on concrete in the kiln room. Floor drain in each of the laboratories and kiln room shall be equipped with lift-out sediment traps for easy cleaning. Potter's wheel area shall be concrete floor sealed with a hard resin. Provide two drains and hose connection in potter's wheel area. Threshold shall be ½" h to keep water from flowing out of room when rinsing floor. The floor covering shall be durable, smooth, resilient and easy to clean.
- D. Walls** - As required to meet District Standards. Provide tackable vinyl covered wall panels where space allows, including cabinet fronts. Provide half wall to separate pottery area and laboratory. Half wall should be no higher than 42" above finished floor.

- E. **Ceiling** - As required to meet District Standards. Laboratories shall have a system of at least six hooks in the student work areas to support, approximately, 150 lbs. each, used to hang weaving frames, drying lines, print plate lines, mobiles, etc.
- F. **Lighting** - As required to meet District Standards. In addition to regular lighting, provide track lights for display on bulletin board wall and display areas. Provide ceiling attachments and outlets for portable spotlights for still-life arrangements and figure poses. No plastic covers on lights in kiln room.
- G. **Windows** - As required to meet District Standards. Provide observation window between material storage and laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Sinks should be located in a peninsular arrangement when possible.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** – As required to meet District Standards.
- M. **Gas and Air** - N/A
- N. **Safety**
 - 1. Kiln room precautions for excessive heat/noxious fumes.
 - 2. Adequate ventilation for chemicals and acids.
 - 3. As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. **Project Storage Room**
 - a. Provide metal shelving with adjustable shelves on all walls.
 - 2. **Material Storage Room**
 - a. Provide base cabinets with shelves for flat paper storage; draws and open adjustable shelves.
 - b. Provide upper cabinets with open adjustable shelves.

3. Each Laboratory

- a. All cabinets and drawers in the Art labs shall be lockable.
- b. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
- c. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
- d. Provide Multimedia cabinet and workstation - refer to General Considerations.
- e. Provide metal shelves with closed ends in pottery area.
- f. Provide base and upper cabinets with lockable doors and adjustable shelves.

4. Kiln

- a. Provide maximum steel shelving, floor to ceiling, on all walls with proper backing for mounting.

5. School Display/Exhibition

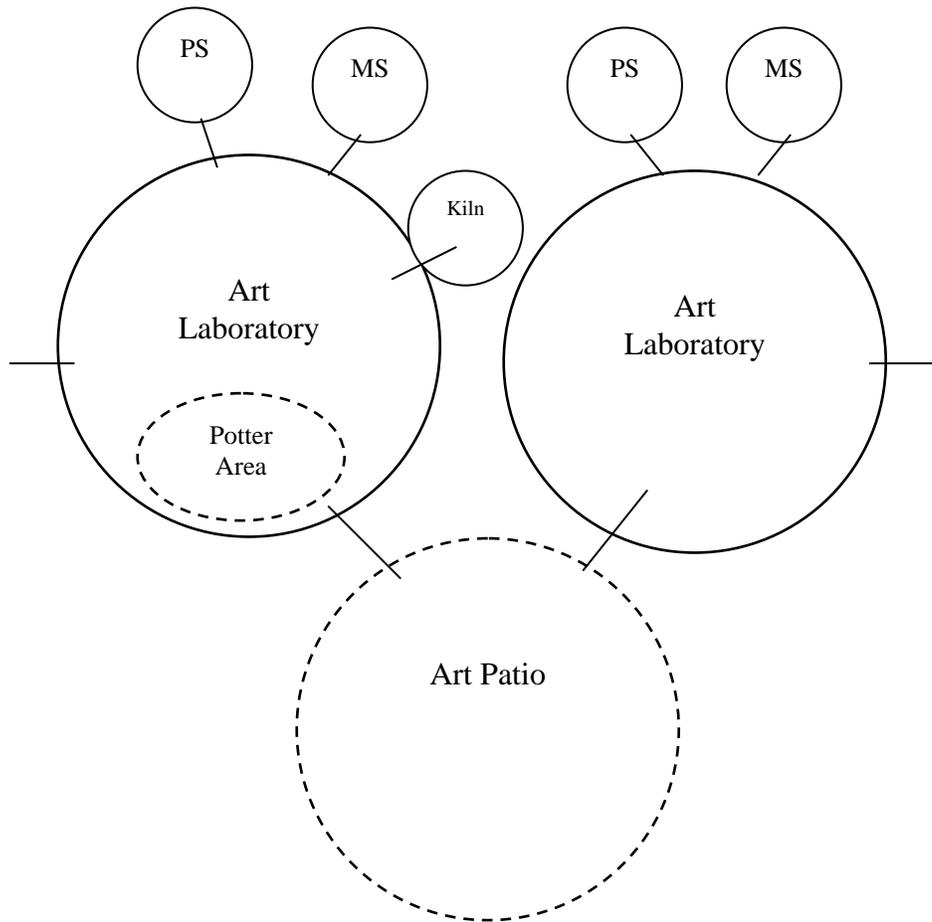
- a. Provide recessed display cabinet with tackable backboard and controlled lights (6'W x 4'H) for students' artwork in hallways.

S. Other Considerations -

1. If a darkroom is provided, a silver photo recovery system shall be in accordance with current SBPBC policy of the Department of Environmental Control.
2. The kiln room shall be a one-hour rated enclosure.
3. Art patio shall have benches.
4. The art patio, provided by contractor, shall have a north or east exposure.
5. Provide electric, data and phone in Material Storage.

SPATIAL RELATIONSHIPS

ART



MS = Material Storage
PS = Project Storage

CUSTODIAL**I. PROGRAM PHILOSOPHY**

Staff and students can expect a clean and healthful environment in which to teach and learn. A properly organized, trained custodial staff has the ability to ensure the sanitation and regular cleaning in any facility, if their cleaning program is supported by the cooperation of the entire staff and student body. Custodians are allocated based on the size of the school (square feet) in sufficient numbers to maintain the cleanliness of the facility. Care must be exercised that cleaning is their primary function. Staff and students help ensure the success of a custodial program by avoiding abuse of the facility. Our investment in school facilities is protected by initial provision and utilization of sufficient effective equipment and personnel.

II. PROGRAM GOALS

To provide a safe, sanitary and aesthetically acceptable learning and work environment through proper utilization of human resources, materials, equipment and methods.

III. PROGRAM ACTIVITIES

The principal duties of the custodial staff are as follows:

- A. Prepare and maintain adherence to work schedules to ensure regular, daily cleaning of the entire facility.
- B. Maintain personal use facilities (restrooms, water fountains, shower rooms, sinks) in clean and sanitary condition to minimum standards of State Requirements for Educational Facilities (S.R.E.F.) regulations and in accordance with the "Instructional Handbook for Custodians."
- C. Assure that school grounds are kept free of litter and safety hazards.
- D. Report all hazardous conditions immediately.
- E. Observe all safety and fire regulations.
- F. Maintain security of buildings during non-school hours.
- G. Report any items in facility in need of repair.
- H. Maintain custodial equipment so it is clean and usable at all times.
- I. Use only authorized materials, methods and equipment to accomplish program goals.
- J. Maintain inventory of custodial supplies and reorder as necessary for timely replacement.

K. Use all manual, mechanical, electrical, and automatic equipment as directed.

IV. ORGANIZATIONAL NOMENCLATURE

Number of custodial staff determined as a function of Budget Department.

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. 300 NSF from dining for Golf Cart Storage Area to accommodate three electrical carts.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CUSTODIAL							
330/331		Central Receiving, Toilets, Lockers, Showers, Custodial Closets, Workroom & Office			1,950		
333	1	Flammable Storage			155		
334	1	Equipment Storage			500		
334	1	Golf Cart Storage (from dining)			300		
TOTAL					2,905		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Custodial Foreperson Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Side arm chair,
1		X	Computer
1		X	Printer
1	X		Clock

B. Main Custodial Room/Central Receiving /Workroom/Equipment Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Table with chair
1		X	Workbench
1		X	Time clock, automatic
1		X	Time card rack

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Tack board, 4' x 4'
1		X	File cabinet, four-drawer, legal, lateral, lockable
6		X	Stepladders: two 10', two 6', two 3'H
8		X	Custodial cart
1		X	Flat cart, four-wheel, for material handling
3		X	Vacuum cleaner, heavy-duty, wet/dry, with accessories
3		X	Vacuum cleaner, upright, high productivity, with beater bar
6		X	Vacuum cleaner, backpack, with accessories
1		X	Desk mover
1		X	Floor machine, 18" - 21", high speed, 275 - 300 rpm, for spray buff for resilient floor areas
1		X	Floor machine, 20", burnishing, 1500 - 2000 rpm
4		X	Floor machine, 18"W, standard
4		X	Hand truck
1		X	Telescoping ladder
2		X	Stripping brush, 18"W, Flo-Pac
1		X	Sweeper, battery-powered, interchangeable brush for inside/outside or push-type sweepers, with side broom
3		X	Floor Fan
1		X	Vise
3		X	Tank sprayer, plastic
1	X		First Aid kit, wall-mounted
12		X	Safety goggle
1		X	Screwdriver, set
1		X	Wrench, open-end set
1		X	Wrench, adjustable set (6", 8", 10")
1		X	Hammer
1		X	Electric drill, 3"
1		X	Drill set
1		X	Socket set (40 - piece)
1		X	Offset pliers
1		X	Regular pliers
1		X	Personnel lift for use in gymnasium
1	X		Service sink (HW/CW)
1	X		Safety shower with no curb
1	X		Washer, commercial
1	X		Dryer, commercial
1	X		Eye wash station.
1	X		Refrigerator, residential, 22 cu. ft.
		X	Vending machine(s)
1	X		Fire blanket
	X		Fire extinguishers conforming to the State Requirements for Educational Facilities (S.R.E.F.)
1	X		Key box
10	X		Lockers
1	X		Clock
1		X	Time Collection Device
	X		Built-ins (refer to special considerations)

C. Flammable Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Blower, gasoline-powered, hand-held or backpack
1		X	Pressure sprayer, gasoline-powered
1		X	Pressure cleaner
	X		Fire extinguishers, per code
1	X		Fire blanket
	X		Built-ins (refer to special considerations)

D. Service Closet (per closet)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Service sink (HW/CW).
1		X	Service Cart
	X		Built-ins (refer to special considerations)

E. Golf Cart Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3-4		X	Golf Carts, electrical
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.
- D. Walls** - As required to meet District Standards. One-third of central receiving shall be partitioned with wire mesh for security storage.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** - As required to meet District Standards. Provide explosion proof in flammable storage.
- G. Windows** - Provide vision window from custodian's office to custodial workroom and central receiving. None, for security reasons.
- H. Doors** - As required to meet District Standards. Provide metal, lockable, extra wide or

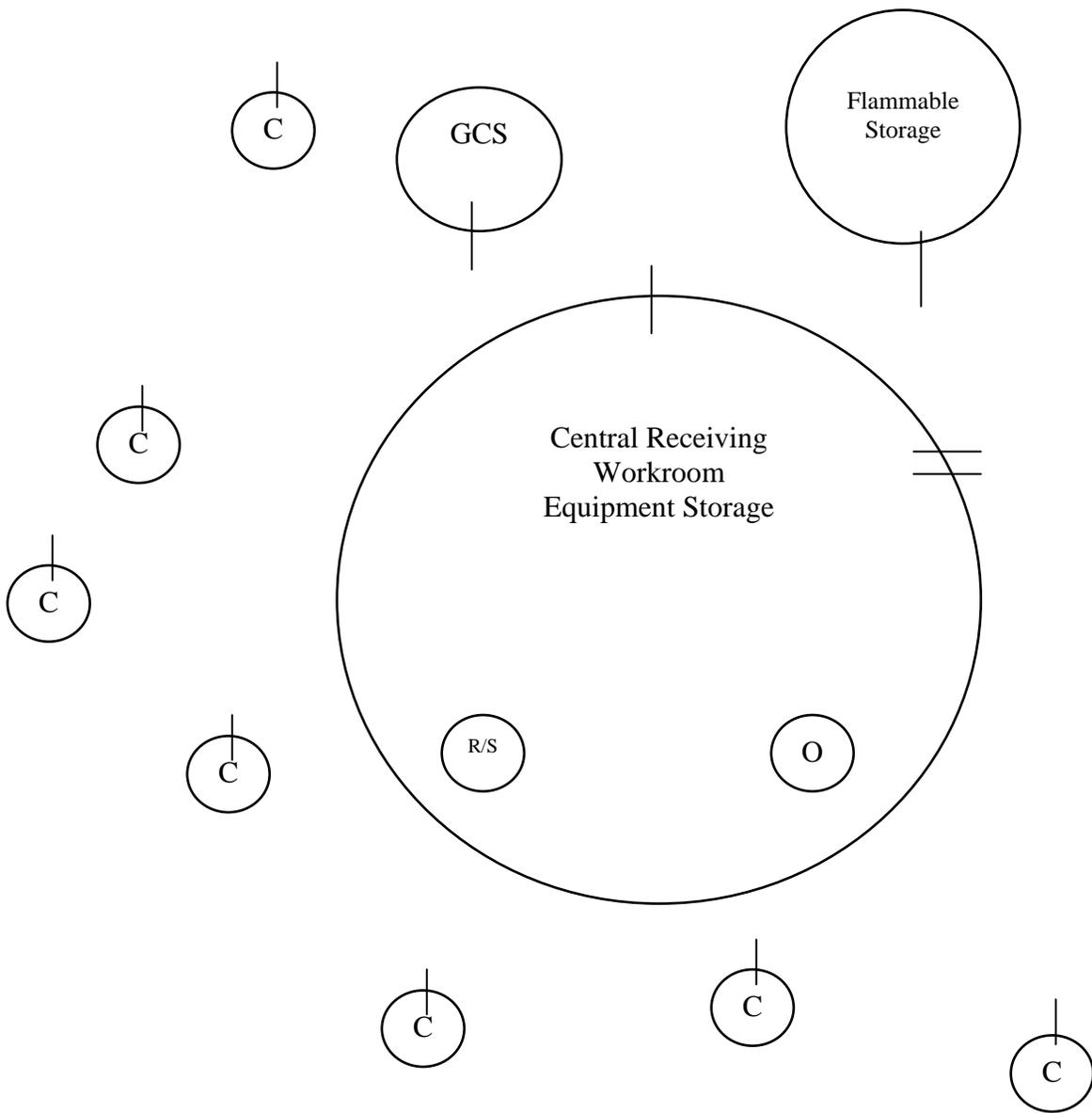
overhead for receiving. Provide metal for flammable storage area with at least 6'W opening. Provide metal door with at least 6' W opening for golf cart storage.

- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** – As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - Service drive to central receiving storage area with loading dock. As required to meet District Standards.
- Q. **Parking** - Storage and charging area for battery-powered carts. As required to meet District Standards.
- R. **Built-ins** -
 - 1. **Central Receiving** – Provide adjustable, 18"D, steel shelving, floor-to-ceiling on all walls, plus sufficient, free-standing shelving to provide necessary storage. Provide wire mesh and adjustable, 18"D, steel shelving, floor-to-ceiling for storage area in central receiving.
 - 2. **Service Closets** – Provide adjustable, 12"D, steel shelving, on one wall, mid-wall to ceiling.
 - 3. **Golf Cart Storage** – Provide adjustable, 12"D, steel shelving, on one wall, mid-wall to ceiling.
- S. **Other Considerations**

N/A

SPATIAL RELATIONSHIPS

Custodial



C = Closets, per SREF
O = Office
R/S = Restrooms, Showers & Lockers
GCS = Golf Cart Storage

EXCEPTIONAL STUDENT EDUCATION

I. PROGRAM PHILOSOPHY

All exceptional students are entitled to receive appropriate educational services in the least restrictive environment which will enable them to have full equality of opportunity. Instructional program must fully meet the educational needs of students to the extent that they require special education to develop their maximum potential.

II. PROGRAM GOALS

Students with special learning differences will be provided educational programs designed to meet their individual needs. Diagnostic evaluation, prescriptive planning and implementation of individual student programs will be provided. Individual Educational Plans (IEP) are implemented in inclusive settings with appropriate support, as long as the IEP team determines that the student can or continues to achieve educational benefit.

III. PROGRAM ACTIVITIES

Students with special learning styles will be provided educational programs designed to meet their individual needs. Individualized and small group instruction will be provided in academic, learning strategies, prevocational/vocational, and daily living skills curriculum areas. Transitional services are provided for the employment bound and college bound students.

A. Specific Activities

1. Specific Learning Disabilities

- a. Instruction in basic skills and learning strategies
- b. Functional life skills
- c. Vocational preparation

2. Emotionally Handicapped/Severely Emotionally Handicapped

- a. Behavior adjustment and group interaction, positive behavior management techniques, and affective curriculum
- b. Academic instruction: remedial, ESE or regular curriculum
- c. Functional life skills
- d. Vocational preparation

3. Educable Mentally Handicapped

- a. Instruction in basic academic skills, social studies and science
- b. Social/personal skills development
- c. Functional life skills
- d. Vocational preparation
- e. Community referenced based instruction

4. Physically Impaired/Profoundly Impaired

- a. Independence in daily living skills
- b. Instruction in academic skills development
- c. Independence in community living skills
- d. Employability skills
- e. Training in assistive technology

5. Adolescent Language Program (for eligible Language Impaired Students)

- a. Academic strand-therapeutic language arts within the context of regular curriculum framework
- b. Functional strand-therapeutic language arts within the context of daily living and functional skill curriculum

6. Hearing Impaired & Visually Impaired

- a. Instruction in academic skills
- b. Instruction in communication skills
- c. Instruction in life skills
- d. Vocational preparation

7. Laboratory (Trainable Mentally Handicapped Laboratory)

- a. Laboratory experiences for all exceptional students in activities including food management and preparation, clothing care and construction, home repairs, basic economics, and agriculture production and processing
- b. Simulated job interviews
- c. Appropriate social skills

8. Supplementary Instruction

- a. Individualized or small group therapy
- b. Diagnostic testing
- c. Itinerant instruction (Hearing Impaired, Visually Impaired, Speech Language Impaired)
- d. Psychological evaluations

9. Resource Room

- a. Individualized or small group instruction
- b. Reinforce/enrich basic instruction

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio

Self contained Instructional Classrooms: 1:10

Includes Physically Handicapped, Emotionally Handicapped and Trainable Mental Handicapped.

Part-Time Instructional Classrooms: 1:15

Includes Educable Mentally Handicapped, Specific Learning Disability, Hearing/Visually Impaired.

Laboratory: 1:12

Grade Levels for Which Program is Intended: 6-8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. After school and Adult Education classes specific to each exceptionality, e.g., Emotionally Handicapped - day treatment.
- B. **General Use** - Availability of interactive video with appropriate hook-ups. Access to a computer in each classroom.
- C. **Laboratory** - This area shall be designed as a F.A.C.B.C. model apartment for teaching life skills (Trainable Mentally Handicapped Laboratory). It includes kitchen, laundry and bathroom facilities.
- D. Other instructional uses can be for programs for English for Speakers of Other Languages.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. ESE classrooms and related spaces shall be disbursed throughout the campus in compliance with the School District inclusion philosophy and can be used as general classrooms for flexibility purposes.
- B. **Laboratory** - This area shall be designed as a F.A.C.B.C. model apartment for teaching life skills. It includes kitchen, laundry, and bathroom facilities. The apartment shall be located on the first floor, adjacent to at least two (2) Self Contained classrooms.
- C. Storage shall be folded into the Resource Rooms to create a larger instructional space.
- D. ESE restroom/changing room with shower, 3' x 5', wheelchair, roll-in capability, toilet, cot and sink in compliance with F.A.C.B.C. shall be provided. Restroom shall be a separate sterile space with private corridor entrance opening to the hallway and located near an elevator and in the instructional wing.
- E. Combine Material Storages to create ESE Department Storage.
- F. Supplementary Instruction spaces are to be used for Speech, Hearing and Vision Testing and for Crisis Intervention office.
- G. ESE classrooms should be located on the ground floor whenever possible.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
EXCEPTIONAL STUDENT EDUCATION							
061	3	Part-Time Classroom		900	2,700	15	45
808	3	Material Storage		45	135		
		Subtotal			2,835		
062	3	Self Contained Classroom		900	2,700	10	30
808	3	Material Storage		45	135		
817	3	Restroom, Student		45	135		
		Subtotal			2,970		
063	1	Laboratory			1,140	12	12
808	1	Material Storage			45		
817	1	Restroom & Shower			110		
		Subtotal			1,295		
066	3	Supplementary Instruction with storage folded into room		200	600		
70	2	Office/Testing/Itinerant		200	400		
		Subtotal			1,000		
065	3	ESE Resource Room with storage folded into room		520	1,560		
		Subtotal			1,560		
817	1	ESE Changing Room/Restroom			150		
308	1	ESE Department Storage			300		
		Subtotal			450		
		TOTAL			10,110		87

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Part-Time

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10-15		X	Student desk, adjustable
1		X	File cabinet, four-drawer, vertical or lateral, lockable
3		X	Activity Table
2		X	Cabinet, general storage with four adjustable shelves on one side, marker board on the other, with casters
2		X	Cabinet, cubbies with plastic trays on one side, marker board on the other.
1		X	Bookcase, double-sided, three adjustable shelves on each side, with casters
15-17		X	Chairs, stackable, 17", plastic
1	X		Marker Board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Self-Contained

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5-10		X	Student desk, adjustable
1		X	File cabinet, four-drawer, vertical or lateral, lockable
3		X	Activity Table
2		X	Cabinet, general storage with four adjustable shelves on one side, marker board on the other, with casters
2		X	Cabinet, cubbies with plastic trays on one side, marker board on the other.
1		X	Bookcase, double-sided, three adjustable shelves on each side, with casters
10-12		X	Chairs, stackable, 17", plastic
2	X		Marker Board, 4' x 16', w/ map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Appropriate furniture for a one-bedroom apartment
1	X		Stainless steel, double sink with goose neck faucet (CW) & garbage disposal
1	X		Refrigerator
1	X		Dishwasher
1	X		Washer
1	X		Dryer
1	X		Hooded stove & oven
1	X		Microwave oven
4		X	Computer table
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1	X		Marker Board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Note: All appliances must meet ADA compliance.

D. Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	File cabinet, four-drawer, vertical or lateral lockable
1-2		X	Activity table
7		X	Chairs, stackable, 17", plastic
2-4		X	Computer desk
2	X		Marker Board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

E. Supplementary Instruction Room & Office Testing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk and chair
1		X	File cabinet, four-drawer, vertical or lateral, lockable
1-2		X	Activity Table
4		X	Chairs, stackable, 17", plastic
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Marker Board, 4' x 8', with map rails and flag holder
1	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1		X	Computers
1		X	Printers
1		X	Pencil sharpener, electric
1	X		Clock
1	X	X	Sound Field Enhancement in one room
1	X		Multimedia Cabinet with teacher station connectivity in one room
1		X	DVD/VCR Combo
1		X	Bookcase

F. ESE Restroom/Changing Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Cot
1	X		F.A.C.B.C. Shower with no curb and with fold down seat in shower
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

A. Heating/Cooling/Ventilation – As required to meet District Standards.

- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards. Provide a telephone jack and a dedicated line for telecommunication for hearing impaired.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards. Laboratory shall be accessible for commercial delivery.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. **All ESE Instructional spaces (except Supplementary Instruction)**
 - a. Provide base cabinets with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves. No built-in cabinets in Resource Rooms.
 - b. Provide built-in bookcase, 60”L x 15”D x 40”H with adjustable shelves. No built-in bookcase in Resource Rooms.

- c. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30'D). The counter shall have grommets for wire management. No built-in computer counter in ESE Resource Rooms.
- d. Provide Multimedia cabinet and workstation - refer to General Considerations.

2. **Laboratory**

- a. Provide storage unit, 12"D x 36"W x 84"H, adjustable shelves.
- b. Provide storage unit (3), 18"D x 36"W x 84"H, adjustable shelves.
- c. Provide floor-to-ceiling shelves with compartments, 18"W x 12"D.
- d. Clothing/Laundry Area
 - (1) Provide storage cabinets, 18"D x 36"W x 84"H, adjustable shelves and locks
- e. Kitchen Area Equipment
 - (1) Provide base and upper cabinets with doors; two bases with one drawer each and one base with four drawers
 - (2) Provide food storage cabinet, approximately, 36"D x 12"W x 36"H, over base cabinet
 - (3) Provide closed base cabinet (2), with one drawer each
 - (4) Provide island with scratch resistant cutting surface
- f. Provide multimedia cabinet and workstation - Refer to General Considerations.

3. **ESE Department Storage**

- a. Provide metal adjustable shelving on three walls, floor to ceiling.

4. **ESE Changing Room**

- a. Provide storage cabinet, 24"w x 18"d x 72"h, w/adjustable shelves and lockable doors

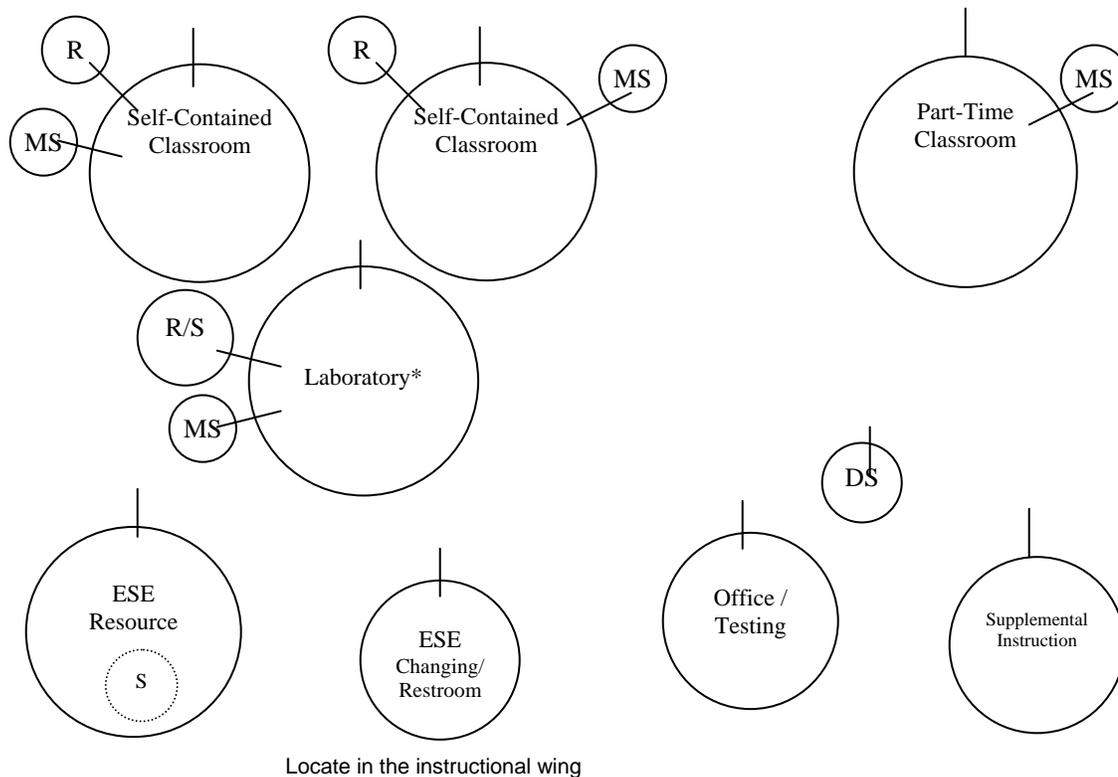
- 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.

S. Other Considerations -

1. The use of observation window(s) in ESE classroom(s) will be reviewed on a school by school basis.
2. The architect shall work with District staff with regards of the placement of ESE classrooms on the floor plan.

SPATIAL RELATIONSHIPS

Exceptional Student Education



R/S = Restroom /Shower

R = Restroom

S = Student Storage

DS = Department Storage

* Laboratory shall be adjacent to (2) two Self-contained classrooms. Other spaces to be distributed throughout school

Not all spaces are shown

FOOD SERVICES/MULTIPURPOSE**I. PROGRAM PHILOSOPHY**

Refer to overall.

II. PROGRAM GOALS

- A. School Food Services intends to offer nutritious foods necessary to maintain good health and welfare for all students.
- B. School Food Services shall provide gainful educational experience relating to nutrition for students.
- C. School Food Services facilities shall also serve school and community functions.

III. PROGRAM ACTIVITIES**A. Dining**

- 1. Student dining
- 2. Faculty dining

B. Kitchen

- 1. Preparation
 - a. Baking
 - b. General preparation
 - c. Production

C. Servery

- 1. Student serving line
- 2. Serving line support equipment

D. Storage and Maintenance

- 1. Receiving
- 2. Food storage
- 3. Non-Food storage
- 4. Can wash
- 5. Laundry
- 6. Food Service Mop Room

E. Warewashing and Refuse Removal

1. Dishwasher
2. Pulping system
3. Pot washing

F. Staff Areas

1. Employee restrooms
2. Office

IV. ORGANIZATIONAL NOMENCLATURE

Student Capacity Per Feeding Period: 433

Total number of students fed per day: 1,300

Grade Levels for Which Program is Intended: 6-8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Teacher dining/lounge shall be accessible to kitchen/serving area.
- B. One food court style serving area with 3 points of sale and 1 conventional serving line shall be provided. Serving areas shall be made secure from dining area.
- C. Dining area shall be accessible from parking area to facilitate community use.
- D. Consideration shall be given to students entering and exiting the cafeteria to avoid congestion.
- E. Consideration shall be given for large group meetings such as community activities, school activities and school dances.

VI. JUSTIFICATION FOR VARIANCE FROM SREF REQUIREMENTS

- A. Dining and Multipurpose shall be combined into one space.
- B. Chair Storage for Dining and Multipurpose shall be combined into one space.
- C. 300 NSF from dining to Custodial Golf Cart Storage.
- D. The kitchen area shall be 5,400 NSF based upon the prototype kitchen designed by SDPBC School Food Service.
- E. Since the Dining and Multipurpose has been combined into one space, approximately ten percent (10%) shall be taken away from the overall NSF of the Multipurpose.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
FOOD SERVICE							
340	1	Dining/Multipurpose (300 NSF to Custodial Golf Cart Storage)			6,915		
341	1	Kitchen (including office and restroom - prototype)			5,400		
349	1	Chair Storage			260		
316	1	Staff Dining/Lounge			850		
819/820		Staff Restrooms (out of allotment)					
815/816		Student Restrooms (out of allotment)					
TOTAL					13,425		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Student Dining Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
87		X	Cafeteria table, folding, 29" maximum height
640		X	Cafeteria chair, one per student for largest service period; 18" is suggested as a suitable seat height for all age groups
		X	Vending machine(s)

B. Facility Dining Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10		X	Table, round, folding
50		X	Chair, stackable
		X	Vending machine(s)
	X		(10) linear feet of base and wall cabinets, to include (1) sink and (1) adjacent bank of (3) graduated drawers. The counter top is to be 36" above the finished floor.
1	X		18 cubic foot refrigerator
1	X		Microwave
	X		Provide serving equipment consisting of the following components: 3-well hot food unit with sneeze guard; 60" refrigerated cold pan with over shelf and sneeze guard; (2) 36" open top utility counters for desert display.

C. Employee Restroom/Locker Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Full-length mirror.
12	X		Individual coat sized lockers with locks.
1	X		First aide cabinet

D. Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk & Chair
1		X	Filing Cabinet
1		X	Computer
1		X	Printer
1		X	Fax Machine
	X		(6) linear feet of counter top with base cabinets and wall cabinets. Wall cabinets to be 14” deep and located over countertop.

Refer to SDPBC School Food Service Department’s Generic Educational Specification for layouts, equipment and Special Considerations.

IV. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

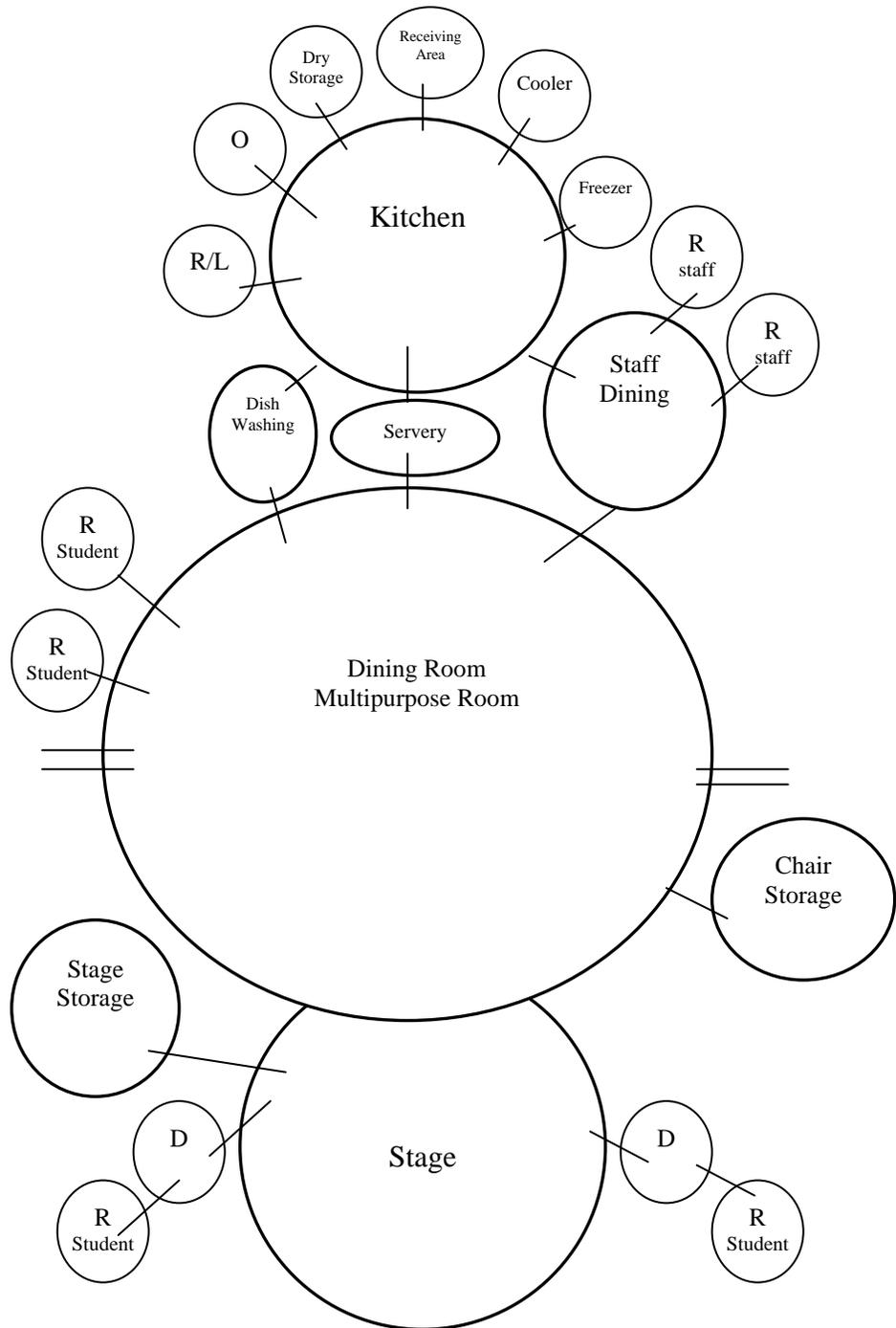
- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** – As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.
- I. **Water** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards. Intercom with volume

control in office, kitchen and dining areas. Television outlets in the dining areas with an origination outlet located on a non-service wall, opposite stage. TV receivers outlets on each side of the stage (stage left, stage right) in the dining areas per ITV specifications. ITV broadcast capability from dining room. Provide microphone outlets: (6) in the cafetorium, (4) on stage. Provide a bell location 7' above the finished floor in kitchen area, with conduit from the nearest telephone terminal cabinet.

- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - Space (12) for food service employees, satellite vans and delivery vehicles. As required to meet District Standards.
- R. **Built-ins** – Provide tack board, 8' x 4' in dining area, 4' x 4' in kitchen preparation area and 4' x 4' in employee locker area.
- S. **Other Considerations** – N/A
 - 1. Contact Dept. of Food Service for location of Time Collection Device.

SPATIAL RELATIONSHIPS

Food Service/Multipurpose & Stage



- R = Restroom
- R/L = Restroom/Lockers
- D = Dressing Room with restroom
- O = Office

GENERAL CLASSROOMS**I. PROGRAM PHILOSOPHY**

During the middle school years, the child experiences rapid mental, physical, social and emotional growth. This stage of development demands a flexible program designed to satisfy individual needs. Teaching goals shall extend opportunities to the students for improvement of self-concepts through successful learning experiences.

II. PROGRAM GOALS

- A. Provide a broad and flexible program which allows for individual differences.
- B. Provide activities and materials to develop skills conducive to effective performance: listening, speaking, reading, writing, grammar and studying.
- C. Provide experiences and opportunities for children to develop skills in critical thinking, deductive and inductive reasoning, and in problem solving.
- D. Develop creativity, positive attitudes and ideals.
- E. Develop critical thinking skills.

III. PROGRAM ACTIVITIES

N/A

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:22

Grade Levels for Which Program is Intended: 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				GENERAL CLASSROOMS			
002	6	Classroom		900	5,400	22	132
808	6	Material Storage		45	270		
		TOTAL			5,670		132

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
22		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
4-10		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

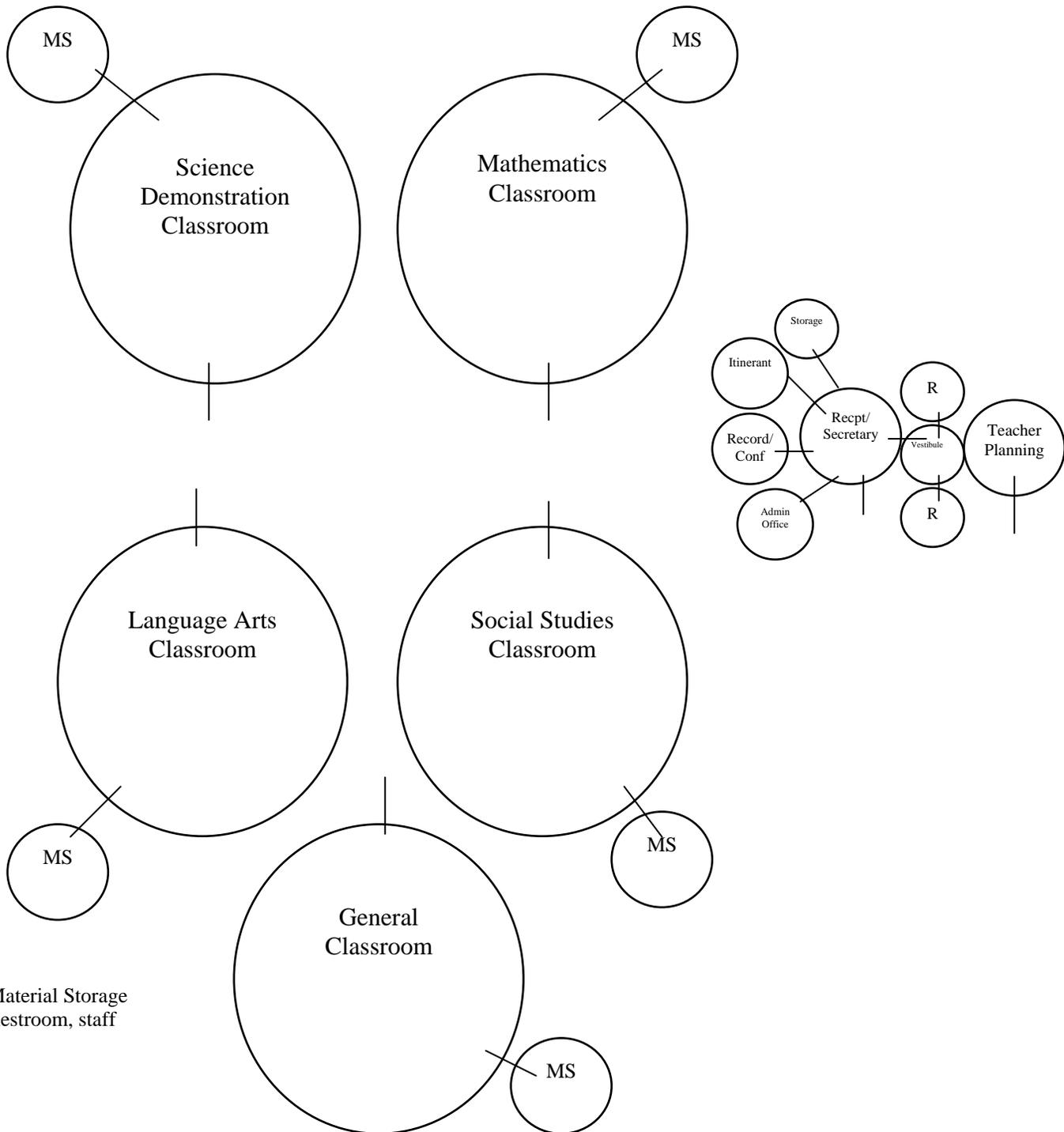
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** – As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.

- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves, and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

**Campus Functional Relationship Diagram
(Academic Houses)**



MS = Material Storage
R = Restroom, staff

LANGUAGE ARTS

I. PROGRAM PHILOSOPHY

The middle school Language Arts program is designed to assist students in achieving the basic communication skills of listening, speaking, reading, writing, grammar and study skills. Through acquisition of the communication skills, students will learn to solve problems, analyze, interpret and communicate information effectively.

During the middle school years, the child experiences rapid mental, physical, social and emotional growth. This stage of development demands a flexible Language Arts program designed to satisfy individual needs. Teaching goals shall extend opportunities to the students for improvement of self-concepts through successful learning experiences.

II. PROGRAM GOALS

- A. Provide a broad and flexible program which allows for individual differences.
- B. Provide activities and materials to develop skills conducive to effective performance in all areas of Language Arts: listening, speaking, reading, writing, grammar and studying.
- C. Provide experiences and opportunities for children to develop skills in critical thinking, deductive and inductive reasoning, and in problem solving.
- D. Develop creativity, positive attitudes and ideals.
- E. Develop critical thinking skills.

III. PROGRAM ACTIVITIES

A. Courses Offered

- 1. Reading Laboratory
- 2. Reading: remedial, corrective developmental
- 3. English 6: basic, regular, advanced
- 4. English 7: basic, regular, advanced
- 5. English 8: basic, regular, advanced
- 6. Compensatory English
- 7. Gifted English
- 8. Writing Laboratory
- 9. Drama
- 10. Speech
- 11. Journalism

B. Teacher Activities

1. Organize for instruction.
2. Keep appropriate record.
3. Confer with parent.
4. Organize and develop Language Arts materials.
5. Participate in school and professional activities.
6. Plan, identify, diagnose, prescribe and counsel, based on individual need.
7. Inform and explain through direct and indirect teaching.

C. Student Activities

1. Participate in class activities.
2. Participate in school-related activities.
3. Study independently.
4. Use required materials.
5. Adhere to classroom policy.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:22
 Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

A. Computer outlets shall be included in all English classrooms for instruction in Computer Literacy and Word Processing.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				LANGUAGE ARTS			
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
TOTAL					8,505		198

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
22		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
4-10		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

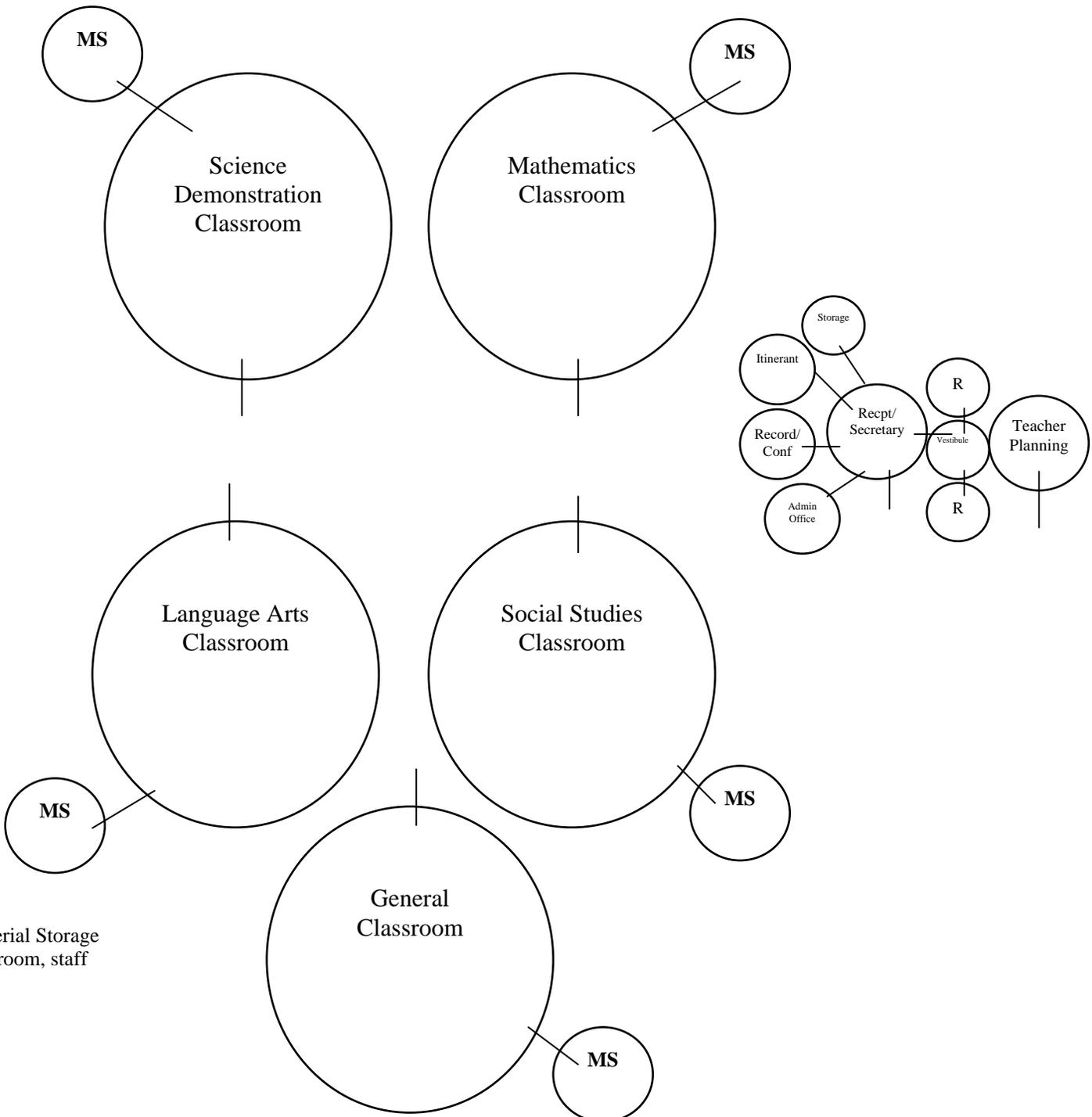
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.

- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves, and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

**Campus Functional Relationship Diagram
(Academic Houses)**



MS = Material Storage
R = Restroom, staff

LIBRARY MEDIA CENTER

I. PROGRAM PHILOSOPHY

The school library media program supports the District's Mission, Fundamental Beliefs and Priorities for educational excellence. The number one priority, "To increase literacy for all students in reading, writing, listening, speaking, viewing and presenting," is also the number one priority of each school's library media program.

The library media center is the school's center for information and inquiry, for students, faculty and the school community. The center provides services, instruction, materials, equipment and personnel to assist the faculty in developing an effective educational program. Primary goals of the library media program in Palm Beach County schools are imbedded in the concepts of *collaboration, access, literacy, inquiry and diversity*. Today's library media center is designed for flexible use and electronic adaptability, ready for new technologies as traditional methods are changing the delivery of instruction.

Effective instruction today requires audio, video, and electronic digital resources, including access to information available on the Internet. The library media center is part of the electronic network so that information can be exchanged electronically within the school, the district, the state and the world. Provisions for students and staff to use this electronic network at multiple locations within the center and the school require full consideration when designing library media space.

II. PROGRAM GOALS CRITICAL IN THE DESIGN OF LIBRARY MEDIA CENTERS

A. Collaboration

Provide physical quarters of sufficient size and flexibility to allow large, class-size, small groups and individual students to work in an aesthetically appealing atmosphere.

Provide space for consultative services with teachers and staff.

Provide electronic capacity throughout the library media center for effective utilization of media materials and equipment by teachers and staff.

B. Access

Provide access to the media facilities, media staff, resources and equipment at the time of need for all, regardless of abilities or disabilities.

Provide support to new schools in the process of developing their collections.

C. Literacy

Provide a selection of media and the electronic capacity to utilize these resources in varied print and non-print formats.

Provide guidance to students and faculty for effective selection and utilization of resources and equipment.

Provide storage designed for the particular media supply as video, etc.

Provide current information about emerging technologies and how to incorporate these new developments into effective instructional practice.

Provide for continuous evaluation and updating of the resources available in the media collection to assure that the school's mission, goals and objectives are being met.

D. Inquiry

Provide purposeful instruction for students in research and information literacy skills.

Provide opportunities for on-line searching and media-oriented experiences.

Provide opportunities for faculty to keep up-to-date and current with instructional techniques and with their specialized curricular area.

Provide current print, not to exceed an average collection age of twenty years and non-print materials that support the curriculum.

E. Diversity

Provide guidance in the use of school, community, and global resources for the enrichment of individual experience.

Provide an environment encouraging multi-cultural and global experiences.

III. PROGRAM ACTIVITIES

The school library media center serves students, teachers, parents, administrators, and people in the local community. The center's space serves as a meeting place for students, staff, and community groups, requiring flexible access for activities during the school day, before or after school hours, and during the evening hours.

A. Activities for Students

1. Receiving instruction in large, class-size, small groups or individual with the capacity to accommodate simultaneous small and large group activities.
2. Using the instructional television equipment, projection equipment or computer technology.
3. Displaying creative promotional & literacy activities on bulletin boards, dry eraser boards and in lockable showcases.
4. Participating and interacting in lectures, projected presentations, demonstrations, and other instructional activities.
5. Preparing and presenting multimedia presentations with projection and sound capability.

6. Browsing and leisure reading of books, periodicals, newspapers, computer programs and the Internet.
7. Engaging in inquiry with reference resources: books, CD-ROM and the Internet.
8. Engaging in individual study for content information, community resources and self-improvement.
9. Accessing information for individual reports, resumes, letters, and other documents related to educational purposes.
10. Searching, identifying and requesting information or resources from other library or information locations through inter-library loan.
11. Book talks and storytelling.

B. Activities for School Faculty and Staff

All eleven capabilities listed above for students are also applicable for faculty and school staff. Other staff activities are:

1. Previewing and selecting materials for classroom use.
2. Preparing instructional materials.
3. Meeting with library media specialist and staff or other colleagues for collaboration lesson plans, curriculum development and resource acquisition.
4. Utilizing the library media center's resources and other external resources via ITV, inter-library loan or the Internet for professional development.
5. Engaging in distance learning.
6. Using multimedia tools and projection units.

C. Activities for Library Media Center Specialist and Library Media Staff

1. Providing Technical Services: selection, acquisition, budgeting, receiving orders and donations, cataloging and database maintenance, processing, binding, inventorying and other functions required to organize and maintain the collection of a library media center.
2. Functioning as school leader(s) for technology development by providing new resources and technologies in the library media center and by providing technical expertise as a member of school improvement and technology committees.
3. Providing instruction for students and faculty in inquiry methods, library research, information literacy and presentation of the results.

4. Assisting students, faculty and staff in selecting and effectively using instructional media in all formats.
5. Planning with teachers, administrators and paraprofessionals and staff for curriculum development and use of instructional media for various school disciplines.
6. Maintaining accurate financial records and budgeting effective use of resources and time.
7. Supervising media staff, student aides and volunteers.
8. Coordinating media center functions with school administrators, faculty, community leaders, students and school staff, including custodial and secretarial personnel.

IV. ORGANIZATIONAL NOMENCLATURE

Grade Levels for Which Program is Intended 6-8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. New developments in educational programs, instructional methods and class groupings and the uses of media resources that accompany them, dictate an element of flexibility for the library media program. Physical facilities must have flexible characteristics including electrical and data connections throughout the facility.
- B. Expanded individual and group use of audio-visual materials and computer equipment.
- C. Available computer retrieval of information from LAN, WAN and on-line services.
- D. Use of library media center for community and after school activities.
- E. Staff and student workshops.
- F. Extended library hours for access by patrons.
- G. Creativity Areas that provide learning experiences for students and faculty. These institutional units will include the following:
 1. Production of video and audio programs and computer generated materials.
 2. Seminars and forums.
 3. Instruction in the use of on-line access of information.
 4. Development of resource sharing activities.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Restroom F.A.C.B.C. accessible shall be provided in media center for all staff members, not just media specialist; accommodations shall be made for evening meetings.

Restroom is taken from the school-wide allotment.

- B. Combine AV storage, maintenance repair and CCTV Storage into one space for large equipment.
- C. Combine Media Production Laboratory, Professional Library and Copying room into one space for flexibility purposes.
- D. Combine Technical Processing and Library Media Specialist’s Office into one space of 350 NSF. The remaining 225 NSF shall be folded into the Reading Room/Stacks.
- E. Combine Reading Room/Stacks, Group Projects, Periodical Storage and Small Group Listening into one space. Group Projects shall be separated by a 4 ft. high wall.
- F. One Resource Room shall be located adjacent to the CCTV Production and Control.
- G. 100 NSF from Stage control booth to the CCTV Studio-Production.
- I. The studio shall be 505 NSF and the control room shall be 505 NSF.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MEDIA CENTER							
380	1	Reading Room/Stacks (to include Group Projects, Periodical Storage & Small Group Listening) (225 NSF from Tech Processing)			4,825		
381	1	Technical Processing/Library Media Specialist's Office (225 NSF to Reading/Stacks)			350		
382	1	Professional Library/Media Production/Copying Room			810		
383	1	AV Storage/Maintenance and Repair/CCTV Storage			1,060		
385	1	CCTV Studio - Production and Control (100 NSF from Stage Control Booth)(505 NSF for Studio & 505 NSF for Control)			1,010		
390	1	Resource Room for CCTV Studio			780		
819/820		Staff Restroom (out of allotment)					
TOTAL					8,835		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Reading Room/Small Group Listening/Periodical Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Circulation desk with book drop
		X	Stacks/Shelving in Reading Room (refer to VIII.B.)
	X		Necessary backing for stacks/shelving at 2' and 5' around the perimeter of the reading room
1-2		X	Chair without arms for circulation desk
4		X	Book truck
1		X	Atlas stand, with shelves
1		X	Dictionary stand, portable
1		X	Picture cabinet
1		X	Automated library catalogue
1		X	Newspaper stand
5-10		X	Access workstations table with computer for automated circulation system (2 stations should be FACBC accessible)
4		X	Computer workstation for automated circulation system
1		X	Lounge furniture including sofas, chairs, tables to accommodate six to eight people
20		X	Table, round or square, to seat four people
80-100		X	Chair, 18"
1		X	Closed circuit TV security system
1		X	Amplifier system with microphone plugs
1	X		Water cooler; no electric eye drinking fountain
2	X		Recessed, built-in display cabinet, 6'W x 4'H
3	X		Tack Board, 4' x 4'
1	X		Video Format AV Screen, electric, 8w' x 6'h, minimum size, wall or ceiling mounted after stacks are placed
1	X	X	Library detection & security system (refer to special considerations)
1		X	Radio frequency inventory system
1	X		Clock
1	X		Multimedia cabinet with teacher station connectivity (refer to general considerations)
1	X	X	LCD Projector
	X		Built-ins (refer to special considerations)

B. Stack Area Shelving (folded into Reading Room) – District Provided

To accommodate 12,500 volumes. Utilize 72"H shelving on perimeter as much as possible. Free-standing shelving shall not exceed 42"H. All shelving shall be adjustable and have backing. Shelving shall be standardized so that inserts for periodical shelves can be moved. 1,600 linear ft. of 10"h shelving for regular books, 250 linear ft. of 15"H **heavy-duty** shelving for reference books and 200 linear ft. of 12"H shelving is required for kits. Shelving shall be accompanied by readily usable book ends. Light-weight, plastic coated wire shelving is not acceptable.

C. Library Media Specialist/Technical Processing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Work station/chair
2		X	Guest chairs
1		X	Computer & printer - color
1		X	Technical processing workstation, automated library - media management server and workstation, printer, chair, secretarial
2		X	Computer for administration of automated circulation system with CDR
1		X	Bookcase
1		X	Binder, automatic
1		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Book truck, double-faced
4		X	Chair
1		X	Computer table
1-2		X	Work table (30" x 72")
1		X	Workstation with secretarial chair for clerk
1		X	TV for closed circuit TV security system
1	X		Single sink with goose neck faucet (HW/CW)
2	X		Tack board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Professional Library (folded into Media Production)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Lounge furniture - combination of chairs and tables to accommodate four people
8		X	Chair
2		X	Public access workstation, network access
1		X	Computer, printer, on-line access
1	X		TV/Multimedia Cabinet (refer to general considerations)
4-6		X	Bookcases
	X		Built-ins (refer to special considerations)

E. AV Storage/Maintenance Repair/CCTV Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	27" data monitor/TV and AV input
1		X	DVD Player
6		X	VCR
6		X	54" carts with 8" wheels and locks
5		X	CD/cassette tape recorder
2		X	Language master
2		X	Overhead projector (traveling)
6		X	Overhead projector, with lamp changer, 4,000 lumens and cart
1		X	Slide projector

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Portable sound system, with microphone and lectern
1		X	Opaque projector (optional)
3		X	Tripod screen, 60" x 60"
1		X	Laminator
2		X	White Boards, portable
2		X	Camcorder, with battery pack and charger
2		X	Tripod for camcorder
2		X	Projection unit, digital/video
1		X	35 mm camera, (inexpensive instamatic)
2		X	Digital camera with disk storage
1		X	Poster maker
1		X	Ellison or AccuCut machine (large and small letters)
4		X	3-shelf book cart
1		X	Video projector
1		X	Scanner for computer
1		X	Color printer
1		X	Typewriter
1		X	Laptop computer with presentation stand
10		X	Computer for access to Internet with internal DVD
2		X	Presenter to attach computer to TV
2		X	TV/VCR combo for learning centers
1		X	Computer & Printer for ITSA
1		X	Desk for ITSA
1-2		X	Work table/desk for several computers for ITSA
	X		Built-ins (refer to special considerations)

F. Closed-Circuit TV Production/Control

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Character Generator
2		X	Digital Camcorder
1		X	VCR
1		X	DVD Player
1		X	Pro Audio Mixer
2		X	Handheld Microphone
2		X	Stand Adapter
2		X	Desk Mic Stands
2		X	Wired Lav Mics
2		X	Tripod, Dolly, Cam Head, Adapters
2		X	Monitor
1		X	Monitor/Receiver
1		X	Applied Magic Editing Package
1		X	Intercom System
1		X	CD/Cassette
2		X	Powered Audio Monitor
1		X	Cables
1		X	Headphone
1		X	Video Mixer
1		X	DV Recorder
1	X		Double Scrim Curtain Tract and curtain (refer to special considerations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	S-VHS-VCR
1	X		Clock (in control room)
	X		Built-ins (refer to special considerations)
	X		Pipe rail grid and lights for studio (refer to SDPBC ITV Dept for specifications)

G. Media Production/Copy Room (folded into Profession Library)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Paper cutters, various sizes
3		X	Photocopier
1		X	Laminator
1		X	Public access workstation
1		X	Computer, printer, flat bed scanner, and color printer
1	X		Single sink with goose neck faucet (CW/HW)
3	X		Tack board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1	X		Clock
	X		Built-ins (refer to special considerations)

H. Group Projects (folded into Reading Room)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Computer & workstation with wire management and chairs. 2 shall be F.A.C.B.C. Accessible
2		X	Printers
	X		Built-ins (refer to special considerations)
1	X		80" w x 60" h video format screen with black masking borders
1	X		Multimedia cabinet (refer to General Considerations)
1	X	X	LCD projector
1	X		Teacher Station connectivity

I. Resource Room: Refer to Resource Room in this document.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

A. Heating/Cooling/Ventilation – As required to meet District Standards.

B. Acoustical - As required to meet District Standards. TV Production Studio and Control Room shall be soundproof.

C. Floor – As required to meet District Standards.

- D. Walls** - As required to meet District Standards. **A cyclorama (curved wall) shall be provided in one corner of the TV studio. There shall be no visible lines, and the wall shall be smooth and painted chroma key blue or green.** The cyclorama wall shall be opposite of the control room.
- E. Ceiling** - As required to meet District Standards. Install double curtain track and curtains (no white) around one-half of production studio, opposite control room, ceiling mounted, at least 14" from walls. The ceiling in the studio shall be a minimum of 14' (12' AFF to bottom of pipe rail grid/lights).
- F. Lighting** – As required to meet District Standards. Color-balanced fluorescent lighting capability of separate switching of rows and lights evenly distributed to all areas of the reading room. Area shall have a master control switch with separate switches in each area including studio and control room. Dimmer switches in Reading/Stacks area for presentations. Lights above outside TV production door to alert visitors that rooms are "in use". Special theatrical lighting for studio with dimming control of individual fixtures with adequate ceiling height for ceiling mounted lights. Provide task lighting above control room.
- G. Windows** - As required to meet District Standards. Provide observation windows from library media specialist's office to reading room and circulation desk. Provide windows, where necessary, for supervision. Windows shall be low enough for visibility when seated. Provide **angled window** (refer to Design Criteria) to minimize reflection between TV control room and production studio; window in control room shall be no less than 34" high above floor and no less than 36" wide. No windows in storage room.
- H. Doors** - As required to meet District Standards. Provide a half glass door from TV control room to production studio and a solid door from reading room. Doors shall be installed to allow physical access from the control room to all rooms in the CCTV suite. Provide double exterior doors for loading purposes. Interior doors shall be half glass, where appropriate.
- I. Water/Plumbing Fixtures** – As required to meet District Standards. .
- J. Communications.**
1. Intercom from central administration to all areas except TV studio. Optional block-out for intercom in reading/stacks room.
 2. Intercom to TV control room and reading room have a lock-out feature with emergency override.
 3. Telephone jacks at the circulation desk, in library media specialist's offices, technical processing room, TV control room, professional library media production room, and conference room(s). TV room shall have phone; provide network wiring for intra and inter network communications.
 4. Independent low-power sound system with microphone jacks located in reading room.

5. Voice data, network communication and ITV reception in the following areas: circulation desk, director's office, professional library, AV storage, CCTV control room, media production and throughout the reading room where computer stations will be located (perimeter and columns).
 6. Voice data and network lines require built-in surge protection.
 7. ITV broadcast capability from technical processing room, reading room, CCTV control room, cafeteria, principal's office, main sporting field, courtyards, and gym. Install ITV outlets at each end of gym floor (non-seating areas) with an origination outlet at one end.
 8. Provide physical and intellectual access to information in native language.
- K. Electrical** - As required to meet District Standards. **DO NOT** locate wall outlets behind or above stacks. Locate necessary data and electrical outlets along columns for computers. Provide wiring and outlets for 30 computer stations in group projects, for automated library catalogue, and all computers. Provide a strip outlet above work counter in technical processing, media production, and CCTV control room. Provide conduit for all data and telephone wiring. Provide conduit and wiring for ITV/CCTV. An additional “on/off” switch for the studio lights shall be installed in the control room. Install two independent circuits with three double electrical outlets on each circuit in the control room and studio. ITV outlets shall be available on at least 2 opposing walls of the main studio. Provide wiring for library book detection systems, security camera system and automated circulation procedures. Do not locate outlets on the cyclorama wall.
- L. Instructional Technology** – As required to meet District Standards. Provide electrical and data in the Reading Room/Stacks near the projection screen for multimedia equipment.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** – As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** – As required to meet District Standards.
- Q. Parking** - As required to meet District Standards. Provide parking near library media center for after hours community use.
- R. Built-in Work/Storage Space**
1. **Library Media Specialist's/Technical Processing**
 - a. Provide base cabinet along entire length of one long wall, with stainless steel sink, cabinets with drawers of various depths and upper cabinet above with doors and adjustable shelves.
 - b. Provide shelving for up to 200 books in need of processing.

2. Professional Library

- a. Provide base cabinet and upper cabinet above with doors and adjustable shelves on one wall.
- b. Provide counter for computers (2) and printer (1) with grommets for wire management.

3. AV Storage/Maintenance Repair

- a. Provide base cabinet, front disabled accessible with stainless steel sink, and upper cabinet above with doors and adjustable shelves
- b. Provide adjustable AV shelving along perimeter and center area of the storage room.
- c. Provide pegboard, 4"H x 8"L, on one wall.

4. CCTV Production

- a. Request CCTV information from the SDPBC Department of Program Management.
 - (1) Provide and install double curtain tract and curtains (no white) around one-half of production studio, opposite control room, ceiling mounted, at least 14" from walls.
 - (2) Provide pipe rail grid for production studio lighting; room lighting shall also be included.
 - (3) CCTV Control Room
 - (a) Provide counter with draw pedestals to seat 2-4 students, 26"H, on wall, facing production studio, with plug molding at 28" above finished floor. No cabinets shall be installed in the control room that will impede comfortable seating at the control panel. If space is limited, it is preferable to have no cabinets at all in the control room.
 - (b) Opposite wall, provide open base cabinets with one adjustable shelf, work surface counter top and open shelving above.
 - (c) Provide pegboard, on full wall, opposite door.
 - (d) Provide and install two PVC conduit openings, 4" in diameter, at floor level, between production studio and control room to allow pass through for cables.
 - (e) Provide shelves above counter for video/cd storage

- (4) Provide racks for equipment.

5. Media Production and Copy Room

- a. Provide base cabinet with doors and adjustable shelves and shelves above with adjustable shelves on the long wall, containing single stainless steel sink.
- b. Provide work counter, 29" above finished floor, for computers and printer along one wall with grommets for wire management.
- c. Provide island base cabinet with electrical and data outlets at both ends and open for large paper and board storage, in center of room.
- d. Provide paper storage cabinet adjacent to large copier. Copier shall be located so it can be pulled away from wall for servicing.
- e. Provide six drawers, 30"W, for poster storage.

6. Group Projects

- a. Provide computer counter to accommodate thirty (30) computers and four (4) printers. The counter shall have grommets for wire management.

7. Reading Room/ Stacks

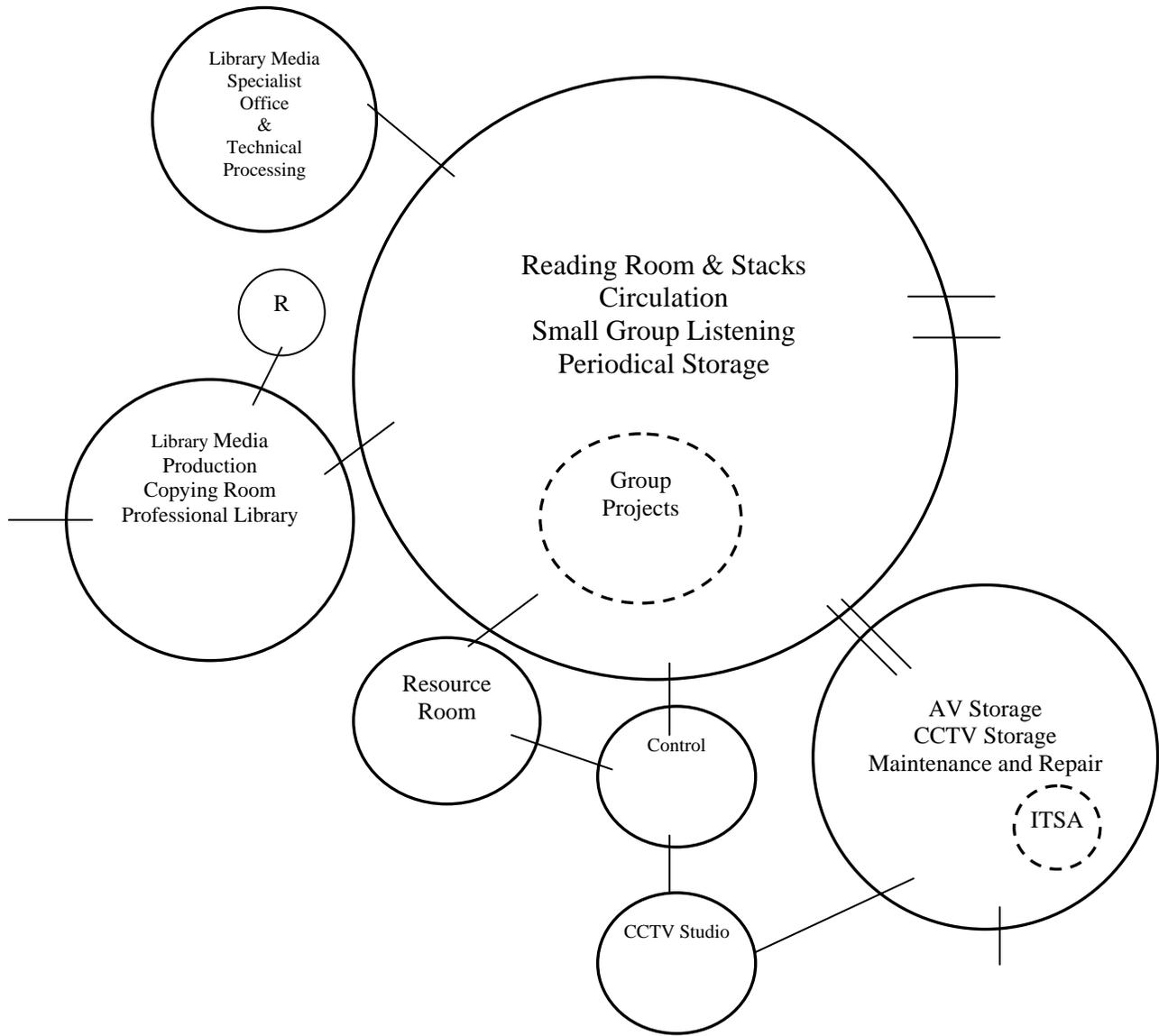
- a. Provide Multimedia cabinet - refer to General Considerations.

S. Other Considerations

1. Design CCTV production studio and control room, so noise will not transmit from lavatory facilities, common halls, placement of HVAC or plumbing pipes. Air handlers should not be located in the vicinity of the studio to avoid excess ambient noise and, if the studio is on a second floor, vibration from a handler located under the studio or nearby will result in a "jiggling" motion on the cameras. No PA's shall be installed on control room or studio walls.
2. An independent, low-power, sound system shall be provided for the reading room. The amplifier shall be placed in the vicinity of the circulation desk with speakers located throughout for even sound distribution.
3. Adjacent to library media center entrance, provide built-in display case with tackable backboard and controlled light, lockable storage base, safety glass.
4. Circulation desk shall be located near entrance with visibility to entire Reading Room.
5. Walking area in CCTV Control Room shall be at least 5' wide from wall to counter.
6. **Architect shall contact TEN to determine the design and equipment for CCTV studio.**
7. Provide electric, data and phone in CCTV storage for ITSA.

SPATIAL RELATIONSHIPS

Library Media Center



R = Restroom, Staff

MATHEMATICS

I. PROGRAM PHILOSOPHY

The complexity of society today demands the diverse abilities of all its members. Therefore, it is imperative that students be helped to develop their unique abilities to their peak potentials by offering courses of Mathematics at each student's ability level.

II. PROGRAM GOALS

- A. Provide students the opportunity to develop competency in the basic skills.
- B. Help students understand the structure of Mathematics.
- C. Provide students an opportunity to understand Mathematics as a means of communicating number ideas.
- D. Provide students the opportunity to develop their reasoning abilities.
- E. Provide students the opportunity to apply Mathematics to other disciplines.
- F. Provide students the opportunity to apply Mathematics to the solutions of real world problems.
- G. Provide students the opportunity to appreciate the role Mathematics has played in the development of civilization.
- H. Provide students the opportunity to develop computer and other technology skills.

III. PROGRAM ACTIVITIES

A. Courses Offered

- 1. Mathematics 6, Regular and Advanced
- 2. Mathematics 7, Regular and Advanced
- 3. Mathematics 8, Regular and Advanced
- 4. Algebra I, Regular and Honors
- 5. Geometry Honors
- 6. Middle/Jr. High Intensive Mathematics

B. Teacher Activities

- 1. Utilize lecture/class discussion.
- 2. Use audio-visual aids such as ITV, film, video cassettes, and overhead calculators.
- 3. Demonstrate on marker board, overhead projector and with computer simulation.
- 4. Teach, test, and remedial individuals, small groups and large groups.
- 5. Lead group activities.
- 6. Plan in teams and individually.
- 7. Answer individual student questions.

8. Prepare students local, state, and national mathematics competitions.
9. Confer with individual students.
10. Plan bulletin boards and interest centers.
11. Make recommendations as to selection of materials and equipment.
12. Assist with assembly programs.
13. Sponsor enrichment programs.
14. Help to plan and to lead field trips.
15. Participate in teacher, parent and student conferences.
16. Use manipulatives in the instructional process.
17. Coordinate student use of manipulatives to facilitate the learning process.
18. Provide for cooperative team learning.

C. Student Activities

1. Independent study.
2. Study in cooperative learning groups of two or more.
3. Complete small group assignments.
4. Complete large group assignments.
5. View ITV, videos and overhead calculators in groups and individually.
6. Marker board work.
7. Individual seat work.
8. Listen.
9. Complete homework assignments.
10. Computer work station.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:22

Grade Levels for Which Program Is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

It is planned that Mathematics departments will institute computer courses as curricular requirements in every school. The addition of these courses will require a computer laboratory with the appropriate hardware and software.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				MATHEMATICS			
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
		TOTAL			8,505		198

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Classroom**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
22		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
4-10		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Math, Cartesian graph, permanent marker board or roll-up type and circle, similar to map set-ups. If none available, an extra board with a permanent Cartesian graph and circle, 4' x 4'
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

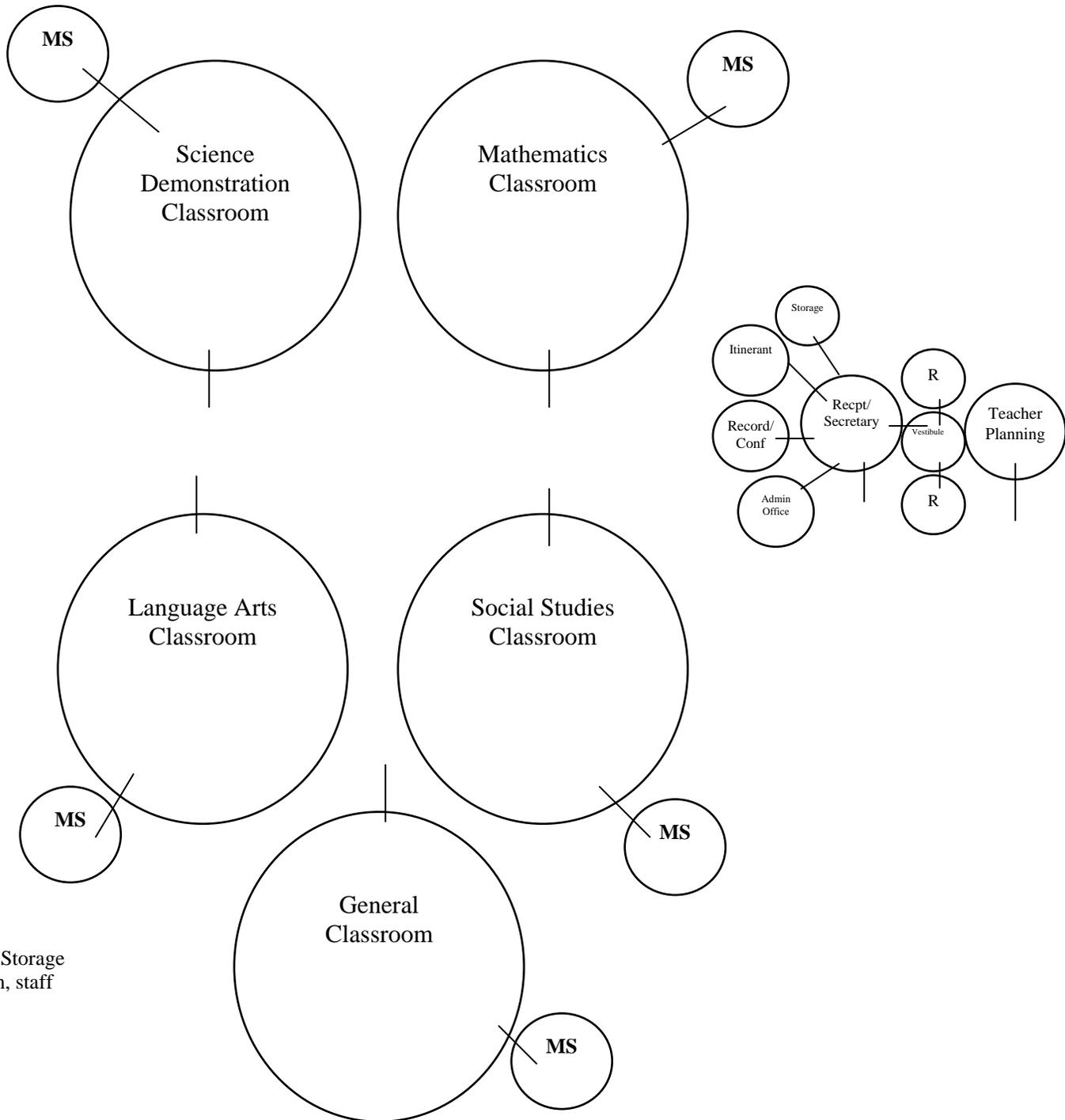
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - Refer to the HVAC System Design Requirements for the SDPBC for specific requirements.

- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves, and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

**Campus Functional Relationship Diagram
(Academic Houses)**



MS = Material Storage
R = Restroom, staff

MUSIC

I. PROGRAM PHILOSOPHY

The purpose of the Music Education Program in the Middle Schools of Palm Beach County is to develop in students the sensitivities, cultural values, and skills necessary to aesthetically respond to and enjoy Music. The development of creative response can be greatly enhanced through Music education.

The Middle School Music Program must offer those experiences which enable a student to listen to, appreciate, compose, and perform Music. Through these four experiences the objectives of Music education can be achieved.

II. PROGRAM GOALS

- A. Learn to respond to Music.
- B. Develop a knowledge of Music skills.
- C. Learn to produce Music.
- D. Learn to make judgments about the quality of Music.
- E. Provide the learner with meaningful and satisfying Music experiences.

III. PROGRAM ACTIVITIES

A. Band/Orchestra Classroom (Maximum 80 students)

1. Beginning band
2. Intermediate band
3. Advanced band
4. Beginning orchestra
5. Community band/orchestra

B. Vocal Music Classroom (Maximum 80 students)

1. Beginning chorus
2. Intermediate chorus
3. Advanced chorus
4. Boy's chorus
5. Select Girl's chorus
6. Vocal ensemble/show chorus with choreography
7. Community chorus

C. General Music (Maximum 30, sixth grade students)

1. Singing (unison and part)
2. Theory
 - a. Intervals
 - b. Rhythms
 - c. Forms or style
 - d. Harmony and melody
 - e. Timbre
 - f. Dynamics

3. History
4. Creativity
5. Electronic Music

D. Recording vocal and instrumental music

E. Management, planning, conferencing

1. Office space for band director and choral director teachers; separate space for each
2. Pupil/parent conference

F. Preparation of materials

1. Duplication of materials

G. Storage of Materials

1. Instruments
2. Robes/uniforms
3. Props

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio Varies
Grade Levels for Which Program is Intended 6-8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Combine Reference Room and Material Storage to create a Music Library in Vocal Music Classroom.
- B. Combine Reference Room and Material Storage to create a Music Library in Band Classroom.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MUSIC							
075	1	Vocal Music Classroom			1,596	28	28
830	1	Ensemble Room			300		
831	1	Practice Room			70		
808	1	Reference Room/Material Storage			200		
833	1	Robe Storage			150		
315	1	Teacher Planning			100		
		Subtotal			2,416		
076	1	Band Classroom			2,000	45	45
830	1	Ensemble Room			300		
831	1	Practice Room			70		
808	1	Reference Room/Material Storage			200		
832	1	Instrument Storage			600		
834	1	Uniform Storage			300		
315	1	Teacher Planning			100		
		Subtotal			3,570		
		TOTAL			5,986		73

VIII. PROGRAM FURNITURE AND EQUIPMENT

The following is a suggested Musical list with concentration on design considerations for instrument storage area. This list is a guideline and not a required list.

A. Band

No. of Items	Contractor Provided	District Provided (FF&E)	Description
80		X	Music posture chair
70		X	Music stand, adjustable
1		X	Acoustical shell, rollaway (16 unit)
6		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Chair
1		X	Movable director's podium shall be raised 14" above the lowest level and be sufficiently large for conductor's stand and stool, plus band direction
1		X	Bookcase, adjustable, 10"D shelving
1		X	Deluxe conductor system
1		X	Microphone and speaker system
1		X	Piano
1		X	Band/orchestra folio cabinet
2		X	Band/orchestra folio cabinet, caster base with 100 slots (each clot 12 1/2" w x 14" d x 1 3/8" h)
1	X	X	Sound system: tape recorder, CD, stereo, stereo amplifier,

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			speaker (4), recording microphone (2), cassette recorder (high quality) & microphone stand (2) (refer to special considerations)
1		X	Portable stereo cabinet
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 16', with map rails and flag holder.
2	X		Marker board, 4' x 8', with staff
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Speakers built into classrooms that can be utilized with or without recording room equipment (refer to special considerations)

B. Vocal

No. of Items	Contractor Provided	District Provided (FF&E)	Description
80		X	Music posture chair
5		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Choral folio cabinet (2), with caster base
1		X	Acoustical shell (7 unit), rollaway
1		X	Grand piano, 6'
1		X	Deluxe conductor system
1	X	X	Sound system: 100-watt stereo mixer, vinyl protective cover, fold-up powered table, 100S speaker (2), 50' speaker cord (2), Speaker stand (2), area microphone (2), vocalist microphone (2), mike stand (4), extension cord, 25', tote box for microphone stands, etc. (refer to special considerations)
1		X	Portable stereo cabinet
1		X	Seated Choral Risers with backrails (8 units) Placement shall be along the widest uninterrupted wall
1		X	Teacher chair with casters
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 16', with map rails and flag holder.
2	X		Marker board, 4' x 8', with staff
3	X		Tack Board, 4' x 4'

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		80”w x 60”h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
	X		Built-ins (refer to special considerations)
1	X		Speakers built into classrooms that can be utilized with or without recording room equipment (refer to special considerations)
1		X	Standing riser system, portable (8 units) Placement shall be along the widest uninterrupted wall

C. Ensemble and Practice Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Piano, upright, one for each room
	X		Built-ins (refer to special considerations)

D. Teacher Planning (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Filing cabinet, four drawer, legal, lateral & lockable
1		X	Teacher Desk and chair
1		X	Computer & printer

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. Heating/Cooling/Ventilation** – As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards. Provide optimum acoustics for rehearsal and teaching areas. Some considerations are as follows:
 1. Two main acoustical factors: optimum acoustical environment and optimum hearing conditions by director and every student.
 2. Acoustical environment: the maximum background noise level is 25 decibels with the optimum somewhat lower.
 3. Reverberation time to allow for the separation of successive sounds is a critical

problem in designing rehearsal facilities. The optimum reverberation time for a large rehearsal room is 1.1 seconds. If the time falls below .8 seconds for the band area, or 1.0 seconds for choral area, the room becomes too dead for effective use. If the time is much greater than 1.1 seconds for band, or 1.2 seconds for chorus, then boom, echo, and over-loudness will result, causing severe distortion of sound and producing an impossible rehearsal situation. It shall be noted that the reverberation times for band and choral rehearsal rooms are different and shall not be planned in the same way.

4. Proper distribution of sound depends upon the uniform diffusion of all sounds throughout the room.
 5. Frequency levels throughout the full spectrum of audible sound must be allowed to be diffused equally. A proper balancing of materials is essential to eliminate the distortion caused by lack of attention to this detail.
 6. Expert advice from SDPBC Secondary Education Department shall be sought in designing a Music room.
 7. Soft wall-finish materials shall be limited to locations higher than students can bump into or reach, i.e., a minimum of 6' above floor.
- C. Floor** – As required to meet District Standards. Vocal room and band room shall be flat and unobstructed. The following spaces shall have rubberized flooring - Band Room, Vocal Room, all practice rooms and all ensemble rooms.
- D. Walls** - As required to meet District Standards. All walls acoustically treated to prevent sound transfer to adjacent spaces used for instruction. Walls shall be constructed to roof deck. Walls and ceilings shall be acoustically treated to provide maximum acoustical effect in each classroom, ensemble room and Music practice room. Provide mirror on one wall in each practice room.
- E. Ceiling** - As required to meet District Standards. Acoustically treated for best musical sound in each classroom, ensemble room and Music practice room. The band room ceiling shall be 22' and the vocal room ceiling shall be 20'.
- F. Lighting** – As required to meet District Standards.
- G. Windows** - As required to meet District Standards. No outside windows. No windows in or near entrance doors. View windows into classrooms and practice areas. Observation windows from teacher planning to classroom areas. Windows in instructional area shall be acoustically treated to reduce sound transmission.
- H. Doors** - As required to meet District Standards. Doors must be secure against break-in to protect equipment. Doors and walls in instructional area shall be acoustically treated to reduce sound transmission. The double door with removable mullions from the rehearsal area to the outside shall be designed so that large instruments can be moved and groups of students can enter and exit quickly.
- I. Water/Plumbing Fixtures** – As required to meet District Standards. Provide water fountain in or near band and vocal classrooms.

- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Provide master switch for the instrumental and choral areas inside and near the entrance. Each side wall and back wall shall have a minimum of three outlets. The front wall shall have at least four placed at convenient intervals. In addition, (2) microphone jacks shall be placed in the ceiling so microphones could hang; they shall be placed in front of the room about 10' from the front wall and spaced about 12' - 15' apart. The contractor shall provide surround system wiring, speakers, base, subwoofer, etc. for laboratory. The District shall provide the musical equipment, stereo, recorder, CD player, etc.
- L. Instructional Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** – As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives**
1. Provide bus access at or near the building.
 2. The service road shall provide access to the loading doors of the building, especially to the instrumental side, for loading of heavy equipment.
 3. Service roadways and exterior loading areas shall be well lighted for night use.
 4. As required to meet District Standards.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
1. **Instrument Storage** – Provide special built-in shelves maximum amount, full height, appropriate to size of each instrument case from flute to tuba and drum size, lockable.
 - a. 2 sets of 27 ½”w x 19 ¼”d x 85 5/8”h to store 15 clarinets, flutes, piccolos or oboes
 - b. 2 sets of 27 ½”w x 29 ½”d x 85 5/8”h to store 9 clarinets, flutes, piccolos or oboes and french horn, alto horn or snare drum.
 - c. 3 sets of 27 ½” w x 29 ¼”d x 85 5/8” h to store 10 trumpets, cornets or alto saxophones.
 - d. 3 sets of 27 ½” w x 39 ¼”d x 85 5/8” h to store 10 trombones, bassoons, bass clarinets, violins, violas, tenor saxophones or alto clarinets.

- e. 2 sets of 27 ½" w x 29 ¼"d x 85 5/8" h to store 1 string bass, contra bass clarinet or bass drum, or use for general storage.
- f. 5 sets of 27 ½" w x 29 ¼"d x 85 5/8" h to store 3 french horns, alto horns or snare drums.
- g. 2 sets of 27 ½" w x 39 ¼"d x 85 5/8" h to store 3 baritones, euphoniums or mellophones.
- h. 2 sets of 48 ½" w x 29 ¼"d x 85 5/8" h to store 3 baritone saxophones, bass clarinets, bassoons, field drums or snare drums or for general storage.
- i. 3 sets of 14 3/8" w x 29 ¼"d x 85 5/8" h to store 5 trumpets, cornets, alto saxophones.
- j. 4 sets of 27 ½" w x 39 ¼"d x 85 5/8" h to store 2 bass drums, field drums, snare drums, or parade drums.
- k. 4 sets of 48 ½" w x 29 ¼"d x 85 5/8" h to store 2 bass drums, field drums, snare drums, parade drums, tri-toms, quads, tubas or sousaphones (bell attached).
- l. 1 set of 60 ½" w x 39 ¼"d x 85 5/8" h to store 1 timpani, chimes, small vibes and xylophones, marimbas and gongs. Adjust from 46" to 70".
- j. 1 set of 48" w x 48"d x 85 5/8" h to accommodate up to six 48" wide adjustable shelves or up to six 360-degree revolving shelves.
- k. It is preferred that the instrument storage cabinets are located in the instrument storage room. If instrument storage cabinets are located in the classroom, they should have lockable grill doors to minimize the amount of lost cubic volume.

2. **Material Storage (Band & Vocal)**

- a. Provide shelving, maximum amount, full-height, 10'W.
- b. For Vocal Room, provide folio storage cabinet with a minimum of 200 slots. Slots should be vertical and measure 10"h x 2"w x 12"d each.
- c. Provide base cabinets with doors, 10'L, lockable. Provide cabinets with doors above counter, lockable.

3. **Classrooms (Band & Vocal)**

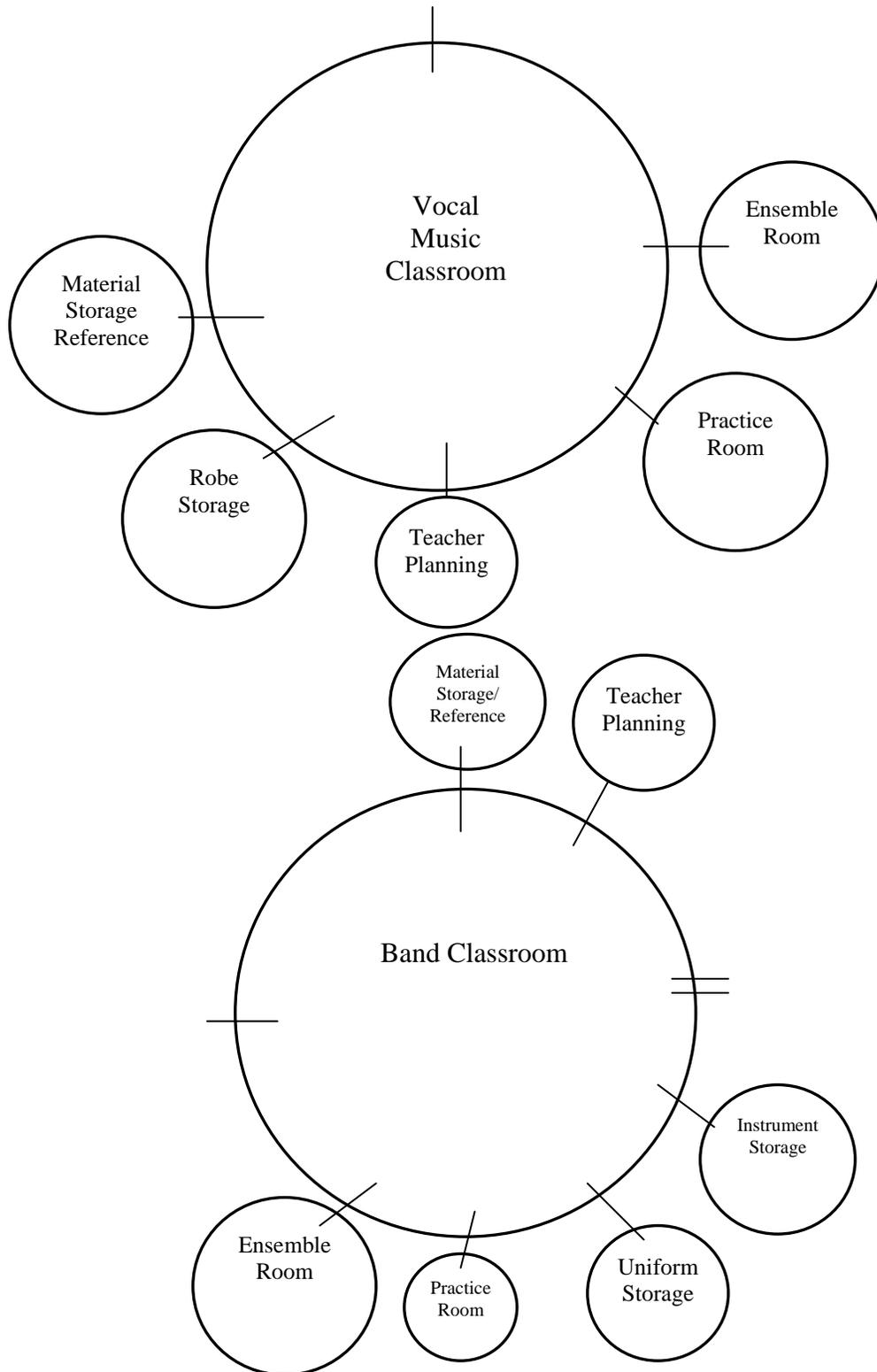
- a. Provide cubbies, 18" x 18" (60) for student textbook storage near entrance doors.

- b. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30'D). The counter shall have grommets for wire management.
 - c. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 4. **Uniform Storage (Band)** - Provide double-tiered rods to hang uniforms with shelves above rods on all walls.
 - 5. **Robe Storage (Vocal)** - Provide single tiered rods to hang robes with shelves above rods on all walls.
 - 6. **Other Built-ins** - Provide a full-length mirror in all practice rooms and ensemble.
 - 7. **School Display/Exhibition** - Provide recessed display cabinet (6'W x 4'H) in hallway near music suite. Display cabinet should be 2' above finished floor.
- S. **Other Considerations** - Music classrooms shall be connected to the other buildings of the campus by covered walkways. Overall campus planning must allow for no sound transmission from adjoining interior or exterior areas into the Music facility. Building must be located and/or acoustically designed so that transmission of sound is contained within the separate sections of the Music building, so as not to interfere with other Music rehearsals or with other school areas. Music classrooms need to be in close proximity to gymnasium, playing fields, and bus loading area. The teaching wall shall be the widest wall.
- 1. Middle School Band Standard Set-Up - Not in Contract
 - a. Clarinet, alto
 - b. Clarinet, bass (4)
 - c. Clarinet, contra, bass
 - d. Drum, bass, 40" w/stand
 - e. Bassoon (2)
 - f. Chimes
 - g. Cymbals, crash, 1 pr.
 - h. Cymbals, crash, with stand
 - i. Cymbals, suspended, 18", with stand
 - j. Turner, electronic, portable
 - k. Turner, electronic, for classroom
 - l. Euphonium (3) valve 4
 - m. Euphonium (8) valve 3
 - n. French Horn (10), F/Bb double
 - o. Marimba, 4-octave
 - p. Oboe (4)
 - q. Bells, orchestra
 - r. Drum (2), snare/concert
 - s. Saxophone (2), tenor
 - t. Tympani, 23"
 - u. Tympani, 26"

- v. Tympani, 29"
- w. Tympani, 32"
- x. Tuba (4), full size
- y. Tuba (4), 3/4 size
- z. Xylophone, 3-1/2-octave
- aa. Saxophone (2), baritone
- bb. Piccolo
- cc. Percussion cabinet
- dd. Auxilliary percussion
- ee. Drum set
- ff. Piano
- gg. Gong

SPATIAL RELATIONSHIPS

Music



PHYSICAL EDUCATION

I. PROGRAM PHILOSOPHY

Physical Education is an integral part of the total education structure of the SDPBC. It provides significant contributions towards the total well being of each child.

The overall aim of the curriculum for Physical Education is to offer progressive, instruction which begins with appropriate basic skills and continues to its logical conclusion – in life long physical and fitness activities.

Physical educators believe that Physical Education shall provide each student with sufficient physical activity to maintain an optimal level of fitness and to develop acceptable social, emotional and physical traits.

II. PROGRAM GOALS

- A. Make a major contribution to the personal fitness of each student including health and skill related components of fitness.
- B. Develop in each student a positive attitude toward his/her personal involvement in physical activity.
- C. Help students understand the nature of rules, skills and strategies as they relate to Physical Education activities at the appropriate grade levels.
- D. Provide opportunities to help individual students develop wholesome self-concepts and acceptable perceptions of others.
- E. Develop an interest and a desire to participate in lifelong recreational sports.
- F. Develop healthy attitudes concerning winning, losing and fair play.
- G. Develop the ability to identify options available in making personal decisions.
- H. Develop a respect for the care and use of equipment and facilities.

III. PROGRAM ACTIVITIES

A. Course Activities

(Required and elective courses may include but not limited to the following units:)

- | | |
|--|---------------------------|
| 1. Archery | 17. Rope Jumping |
| 2. Basketball | 18. Soccer and Gator ball |
| 3. Bowling | 19. Softball |
| 4. Dance/Aerobics | 20. Speed ball |
| 5. Flag Football | 21. Swimming |
| 6. Frisbee Sports | 22. Table Tennis |
| 7. Golf | 23. Team Handball |
| 8. Gymnastics, Rhythmic
Gymnastics, Stunts and Tumbling | 24. Track and Field |
| 9. Health Instruction | 25. Volleyball |
| 10. Inclement Weather Program | 26. Weight Training |
| 11. Jogging | 27. Wrestling |
| 12. Physical Fitness | 28. In Line skating |
| 13. Racket Sports:Handball, Paddle-
ball, Paddle Tennis | 29. Lacrosse |
| 14. Racquetball, Tennis,
Badminton | 30. Field Hockey |
| 15. Recreational Activities | |
| 16. Rhythmic Activities | |

B. Student Responsibilities

- a. Dressing in Physical Education clothes and tennis shoes
- b. Reporting for roll call
- c. Participation in class exercises and activities
- d. Participation in class drills to master skills
- e. Participating in individual practice or assignments
- f. Taking physical fitness, skills, and written tests
- g. Listening to lectures and instruction and taking notes
- h. Watching demonstrations and audio-visual instruction in the form of pictures, diagrams, charts, video tapes, and slides
- i. Taking field trips
- j. Reading and writing
- k. Participating in scheduled games and activities
- l. Taking a shower

C. Teacher Responsibilities

- a. Lecturing
- b. Leading of exercises
- c. Demonstrating instruction in skills, method and officiating
- d. Organizing squads and groups
- e. Supervising squads and groups
- f. Organizing teams and supervising team practice

- g. Organizing tournaments
- h. Instructing leaders and game officials
- i. Instructing on marker board or using overhead projector
- j. Showing video tapes and other audio-visuals
- k. Assembling, organizing and presenting bulletin board materials
- l. Working with grading, locker assignments, gym clothes
- m. Caring for and distributing equipment
- n. Supervising use of facilities
- o. Purchasing equipment
- p. Checking attendance, dressing and participation
- q. Preparing written lesson plans, tests, skill tests
- r. Organizing special services such as towels, clothing, locks, lost-and-found
- s. Administering first aid
- t. Promoting critical thinking skills

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio Varies

Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Facility designed for adaptive Physical Education. Handicapped entrances shall be installed in all areas of Physical Education. Trophy cases built into walls.
- B. Adult/Vocational and Community Education Programs will use facility after regular school hours and on weekends. Equipment purchased shall be suitable for use by the regular school Physical Education program as well as Community Education programs.
- C. Locate outdoor P.A. system speakers on exterior walls of Physical Education buildings.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) - CONTRACTOR PROVIDED (A.B.C.D.)

- A. 200 sq. ft. of the Physical Education Storage area shall be allocated to an outside storage building which shall be located adjacent to the fenced outdoor courts and playing fields. Recommended building size is 10'W x 20'L, with standard double-wide metal door with removable mullion.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
PHYSICAL EDUCATION							
090/091	2	Dressing Rooms		780	1,560		
092/093	2	Lockers		130	260		
094/095	2	Showers		130	260		
096/097	2	Drying		130	260		
098	1	PE Storage (200 SF to outside PE storage)	585		385		
815/816	2	Restrooms		130	260		
315	2	Teacher Planning		200	400		
099/100	2	Teacher Restrooms>Showers		66	132		
115	1	First Aid			130		
111	1	Gymnasium Floor			5,800	1	120
113	1	Gymnasium Seating			4,160		
120	1	Gymnasium Storage			195		
114	1	Laundry/Towel			130		
370	1	Gymnasium Lobby			650		
371	1	Concessions			200		
372	1	Ticket Booth			30		
822/823		Restrooms, public (from allotment)					
098	1	Outside PE Storage (from PE Storage)			200		
TOTAL					15,012		120

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Teacher Planning (per office)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk, 1 per instructor
1		X	Teacher chair, 1 per instructor
1		X	File cabinet, four-drawer, legal, lateral, lockable, 1 per instructor
1	X		Tack Board, 3' x 4', wall mounted
1	X		Pencil sharpener, wall-mounted in each office
1		X	Computer & printer, 1 per instructor
1	X		First Aid kit, wall mounted, 1 per office
1		X	Stretcher, 1 per office
1	X		Clock
	X		Built-ins (refer to special considerations)

B. Gymnasium

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	Volleyball, standard, portable
1		X	Volleyball, standard sleeves, regulation, for game use. 4 standard regulation lengthwise for 2 courts with curtain appropriate width between.
12		X	Mat, tumbling, 6' x 12', Velcro on each end
8		X	Mat, wrestling, 6' x 12', Velcro on all four sides
1		X	Mat truck
1		X	Marker board, 8', portable
2	X		Tack board, 4' x 4', visible by all
1	X		Video Format Screen with black masking, 12'w x 10'h, electrically operated
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Ticket Booth

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Stool, 30"
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Laundry Room (per room)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Laundry Tub
1	X		Clothes washer, commercial
1	X		Clothes dryer, commercial
	X		Built-ins (refer to special considerations)

E. Concession Stand

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator, 18 cubic feet
1	X		Ice machine, small cubes, 400 lb capacity
1	X		Clock
	X		Built-ins (refer to special considerations)

F. First Aid

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1			Padded table
1	X		Refrigerator with ice maker
1	X		Clock
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. Heating/Cooling/Ventilation** – As required to meet District Standards. Separate the lockers/dressing areas from the showers/drying areas.
- B. Acoustical** – As required to meet District Standards.
- C. Floor** - As required to meet District Standards. Gymnasium floor to be marked with regulation basketball lines using school colors. Volleyball court lines painted white, 2" lines. The centerline for volleyball and basketball shall be 2" w.
- D. Walls** - As required to meet District Standards.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** - As required to meet District Standards. Master switch to control lights for locker and shower areas located in teacher's office and at the entry door. Control switch for gymnasium lighting located near an exit. Basketball backboards must not cover light fixtures when in stored position. Two light fixtures with protective covers for outdoor storage building.
- G. Windows** - As required to meet District Standards. A one-way window between the teacher planning office and the dressing areas. Provide ticket window in ticket booth.
- H. Doors** – As required to meet District Standards. Provide double doors with a removable mullion for entrance to gymnasium, storage areas, outside storage building and laundry room. Provide dutch door in laundry room.
- I. Water/Plumbing Fixtures** - As required to meet District Standards. Provide water fountains at fields and courts.
- J. Communications** - As required to meet District Standards. Two wall clocks located in gymnasium and locker rooms. Provide P.A. system speakers on exterior wall of Physical Education Building.
- K. Electrical** - As required to meet District Standards.

- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards. Locate for delivery of equipment, loading and unloading of teams.
- Q. **Parking** - As required to meet District Standards. As required for school site which will allow enough spaces for after school and weekend activities.
- R. **Built-ins**
1. **Laundry/towel** – Provide built-in counter, 36"h x 48"w, for folding and sorting of towels, etc. Provide (2) shelving on two opposite walls to begin 4' from floor. Two rows to run entire length of walls. Shelves to be 18"D, 24" between rows. One row of hooks for hanging clothes to be located under lower shelf on each side of room. One shelf, 12" x 36", above laundry tub.
 2. **P.E. Storage** – Provide shelving on two walls run entire length of walls; four rows, each to begin 18" from floor. Shelves to be 24"D, 24" between rows and a 3" lip on the front edge of each shelf.
 3. **Teacher Planning** – Provide 3'L x 12"D, adjustable shelving with closed ends.
 4. **Gymnasium Storage** – Provide shelving on two opposite walls to run entire length of walls. Four rows, each wall to begin 18" from floor. Shelves to be 24"D, 24" between with a 3" lip on the front edge of each shelf. Must also store 200 chairs.
 5. **Dressing Room/Locker Room** -(2)
 - a. Provide tack board, 4' x 4', visible by all.
 - b. Provide marker board, 8', visible by all.
 - c. Provide benches
 - d. Provide mirror (2), 8', stainless steel
 - e. Provide security mirrors as required for visibility in blind spots.
 - f. Provide (696) lockers at each area (boy's and girl's) approximately, 12"W x 12"H x 16"D (small) in size.
 - g. Provide (116) lockers at each areas (boy's and girl's) approximately, 12"W x 36"H x 16"D (large) in size. Combine six (small) and one (large) lockers to create a set.

Size of Lockers	1000 Capacity	1300 Capacity
12"W x 12"H x 16"D	588 for girls 588 for boys	696 for girls 696 for boys
12"W x 36"H x 16"D	98 for girls 98 for boys	116 for girls 116 for boys
TOTAL	686 for girls 686 for boys	812 for girls 812 for boys

6. **Drying** (2)

- a. Provide hooks or pegs (36), to hang towels

7. **Restroom** (2)

- a. Provide mirror, 8', stainless steel, not to be located above sinks.

8. **Teacher Restroom/Shower** (2)

- a. Provide locker (4), 18"W x 16"D x 72"H
 b. Provide mirror, stainless steel, located over sink
 c. Provide shower curtain rod

9. **Gymnasium**

- a. Provide regulation lexan basketball backboard and rim (2) located in main court.
 b. Provide regulation fiberglass basketball backboard with rim (4) for side court
 c. Each backboard (6), to be lowered and raised electrically. Backup system with hand-operated cranks (forward swing).
 d. Combination basketball/volleyball electric scoreboard with clock (2), located at each end of the gymnasium, visible from courts and bleachers.
 e. Provide and install gym divider, ceiling mounted, electrically operated. Locate above center court markings. Back-up manually operator control.
 f. Provide electrically operated bleachers located on both sides of the gymnasium.
 g. Provide wood, metal or fiber glass bleachers with wooden foot rests.
 h. Install sleeves and floor plates for volleyball. Locate floor plates for the competition court, 3'6", outside of the court markings, directly in line with the 2" center line. Additional floor plates shall be installed for volleyball practice courts (length of main court).
 i. Provide safety wall mats, approximately, 6' h and 24' w, on each end of the gymnasium beneath the main backboards.

10. **Ticket Booth**

- a. Provide counter top with drawers for use with ticket sales.

11. Concession Stand

- a. Provide counter space, located at opening for serving with two rows of shelves under counter.
- b. Provide shelving on opposite wall of counter.

12. Outside P.E. Storage Building

- a. Shelving, 24"D, shall be attached to the wall with necessary backing and located the length of one, 20' wall and on the rear half (10') of the opposite 20' wall. Vertically, 24" between shelves, three rows with a 3" lip on the front edge of each shelf. Shelving to begin 30" from the concrete floor. A pegboard, 2" x 6" x 10'; with pegs, (3/4" x 6"); inserted at a 60° angle, at 2' intervals, shall be located on the front half (10') of the second 20' wall. This board shall be located 5' from the floor.

S. Other Considerations

1. Lockers shall be installed to insure that maximum utilization of room space is made. Locate as many lockers as possible on the inside walls of the room. Any and all rows shall be designed so that instructors will have an unobstructed view of the locker and dressing areas as well as the restrooms.
2. **Outside Facilities (refer to DDC)**

a. Tennis Court (4)

- (1) Playing surface, 36'W x 78'L, each court
- (2) Clearance, 21'W, at each end of court
- (3) Clearance, 12'W, between courts and/or fence

Utilize hard, smooth surface, with appropriate court markings. All courts shall be fenced with access gates. Additional marking for other physical educational uses maybe required.

b. Basketball Court (6)

- (1) Court surface, 50'W x 84'L
- (2) Clearance, 10'W, on all four sides
- (3) Two courts shall have volleyball marking and sleeves.

Playing surface must be a suitable, hard, smooth surface, marked for basketball and volleyball with contrasting colors. All courts fenced with access gates.

c. Baseball Field

Provide enough land space to construct one baseball field with the following dimensions: 75' bases, pitcher's mound located 54' from home plate; bahia grass infield and outfields with clay base paths; backstop, minimum 18-20' in height located a minimum of 25' from home plate. In addition, a fence, 10' h, shall extend from each corner of the backstop to 5' beyond first and third bases. Also, fenced dugouts shall be included, with screen wire protection and access to the playing field. The dugout shall have a roof and concrete floor. A minimum of 250' from home plate for outfield use. Include metal or concrete benches, seat 20 for both dugouts.

d. Softball Field

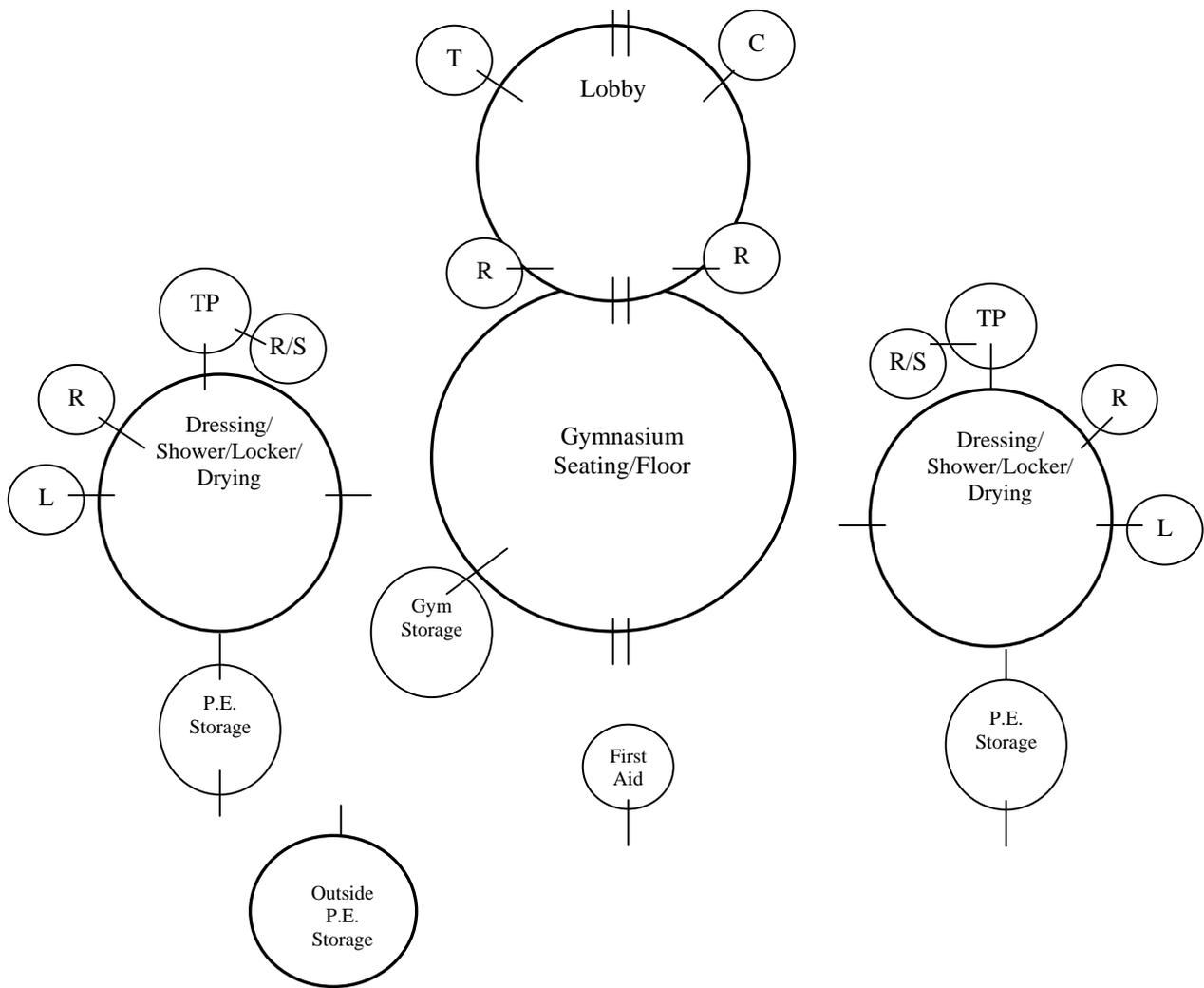
The softball field shall be constructed with 60' bases with the pitching rubber located 40' from home plate with bahia grass infield and outfields with clay base paths; backstop, minimum 18-20' in height located a minimum of 25' from home plate. In addition, a fence, 10' h, shall extend from each corner of the backstop to 5' beyond first and third bases. The regulation softball fields shall be designed so the afternoon sun will be over the first baseman's shoulders during practice or games. The dugout shall have a roof and concrete floor. Include metal or concrete benches, seat 20 for both dugouts.

- e. Provide aluminum bleacher section (4), five rows minimum, capacity - 40 - 50 students.
- f. Provide regulation six-lane 400 meters. asphalt running track, with 42"W running lanes and other regulation lane markings for running events. Provide and install areas for field events (high jump, long jump, shot put).
- g. Provide game regulation-size soccer field with bahia grass located within the track area with locations marked for portable or permanent goals.
- h. Outside facilities shall be laid out in a manner that maximizes open play field area.
- i. The gymnasium shall be adjacent to the athletic fields, courts and parking areas.
- j. Locker room areas:
 - (1) Showers shall open to the drying rooms and lockers. Teacher's offices shall be adjacent to this area. Provide enough shower heads to handle peak load in all shower areas.
 - (2) Physical Education storage shall open to the outside and the locker room.

- k.** The gymnasium storage rooms shall open into the gymnasium area
- l.** Contractor shall provide all tennis nets, volleyball nets, basketball nets, etc. and standards.

SPATIAL RELATIONSHIPS

Physical Education



- C = Concession
- L = Laundry/Towels
- R = Restroom
- R/S = Restroom/Shower
- T = Ticket Booth
- TP = Teacher Planning

RESOURCE ROOMS

I. PROGRAM PHILOSOPHY

All students are entitled to receive appropriate educational services designed to achieve two major objectives: (1) the development of skills and competencies common to all citizens; (2) the development of skills and competencies unique to the students' individual potentialities.

II. PROGRAM GOALS

Students will be provided educational programs designed to meet their individual needs.

III. PROGRAM ACTIVITIES

Instruction will be provided in academic, vocational, living skills and enrichment curriculum areas.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:15
Grade Levels For Which Program Is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) - N/A

- A. Three Resource Rooms shall be located within the Academic Houses.
- B. Material Storage shall be combined with Resource Room to create a larger area.
- C. Combine all the square footage to create four (4) 599 s.f. Resource Rooms.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
RESOURCE ROOMS							
040	4	Resource Room with storage folded into room		599	2,396		
TOTAL					2,396		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
15		X	Student combo desk
1		X	Stool, 30"
1		X	Table, 30"W x 72"L
2-4		X	Computer table
6		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

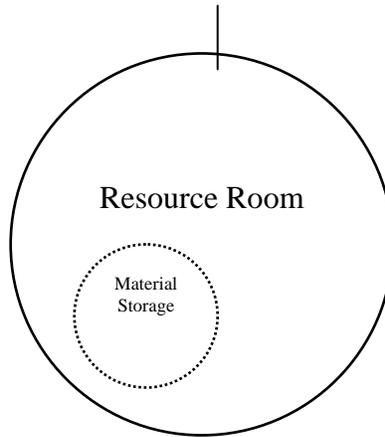
A. Heating/Cooling/Ventilation - As required to meet District Standards.

B. Acoustical - As required to meet District Standards.

- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5’L x 15”D x 40”H with adjustable shelves.
 - 3. Provide Multimedia cabinet and workstation - refer to General Considerations.
- S. **Other Considerations** – N/A

SPATIAL RELATIONSHIPS

Resource Room



Not all spaces are shown

RESTROOMS

Provide public restrooms in gymnasium and administration. Provide restrooms for kitchen staff in kitchen. Provide restrooms for faculty and staff immediately adjacent to staff dining. Provide restrooms in clinic. Provide staff restroom adjacent to teacher planning for shared disciplines. Ceramic tile in toilets shall be floor to ceiling.

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
RESTROOMS (adjust square footage for FACBC and parity requirements)							
822/823		Public Restrooms			260		
815/816		Student Restrooms			1,950		
819/820		Staff Restrooms			520		
		TOTAL			2,730		

Although square footage allocation is per SREF, accommodations for size of spaces and numbers of spaces must be made for F.A.C.B.C. and parity.

SCIENCE

I. PROGRAM PHILOSOPHY

Middle school Science in Palm Beach County is designed to reinforce skills and learning gained in elementary school and prepare students for high school laboratory Science. The program is transitional in nature, with exploratory activities playing a major role. Middle school students, by their very nature are active and inquisitive, and often learn best by doing "hands on" activities in Science. These activities, however, must be carefully planned and supervised with students working toward mastery of objectives.

II. PROGRAM GOALS

- A. Teach a set of basic scientific concepts in a style compatible with the students' interests and abilities that will provide scientific knowledge necessary for successful involvement in life and future scientific studies.
- B. Allow students to participate in "hands on" Science-related activities and acquire skills of measurement and laboratory procedures for the investigation of scientific problems.
- C. Provide opportunity for students to speak and write in scientific terms and use the basic vocabulary of Science in today's society.

III. PROGRAM ACTIVITIES

Middle school Science includes, but is not limited to, classroom and laboratory activities relating to the structure of matter; interaction of matter and energy; the structure, function and classification of living things; and physical characteristics of the earth. Also, students will be constructing, displaying, and storing science fair projects. Student abilities may range from SLD with varying exceptionalities to those enrolled in gifted classes. Students will manipulate scientific apparatus and materials requiring electrical outlets and a source of water to be located along perimeter counters. Teacher demonstration area will support the student manipulation of apparatus. Outdoor instructional activities will be used for individual students and classes. General laboratory activities will be accomplished in teams of two.

A. Courses Offered

- 1. General Science
- 2. Physical Science
- 3. Life Science

B. Teacher Activities

- 1. Plan and direct student activities, individually, and as part of a team.
- 2. Discuss the objectives to be attained, both with students and other teachers.
- 3. Guide students, individually, and in groups.
- 4. Use models, charts, marker board, and tack board as instructional aids.
- 5. Prepare materials for Science activities.

6. Adjust curriculum, instructional techniques and evaluation procedures to accommodate needs of students.
7. Organize and store equipment and supplies.
8. Request equipment and supplies.
9. Inventory equipment and supplies.
10. Diagnose students' needs, and assist students to evaluate their own progress.
11. Plan and direct laboratory activities using chemicals, glassware, heating devices, preserved and live specimens, plants, rocks and minerals.

C. Student Activities

1. Study independently.
2. Experiment independently at a work table.
3. Listen in a large group lecture situation.
4. Research with reference materials.
5. Communicate findings and ideas to others.
6. View audio-visual presentations.
7. Observe, measure, hypothesize, predict, infer, classify and graph.
8. Read, write and organize ideas.
9. Confer with teacher and guidance personnel.
10. Work on projects individually and with groups.
11. Plan activities with teacher and others.
12. Read and write at student laboratory tables.
13. Provide daily maintenance of plants and animals.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:22

Grade Levels for Which Program is Intended: 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Community school classes in Science-related interest areas, such as Electricity, Astronomy, Horticulture, etc. Accelerated program for students with interest and ability in Science and related areas. Remedial assistance program, activity-centered and specifically designed for the less able student. Computer Science classes for students and adults will be offered. Increased utilization of instructionally related activities which occur on the school campus (environmental studies, outdoor field studies, community studies).

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. One Science Demonstration/Classroom shall be equipped for a Chemistry Demonstration/Classroom.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
SCIENCE							
020	8	Science Demonstration/Classroom		900	7,200	22	176
020	1	Chemistry Demonstration/Classroom			900	22	22
808	9	Material Storage		100	900		
TOTAL					9,000		198

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Science Demonstration Room (per classroom)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk or 14 tables, 2 students per table
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back
1		X	Table, 30"W x 72"L
30		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
2		X	Laboratory cart, portable
1	X		Permanent Fume Hood in Chemistry Lab
1		X	Safety shield, (explosion shield) portable
1		X	Sterilizer for safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
16		X	Microscope
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
30		X	Student apron
1		X	Teacher Lab coat
1		X	Electronic Scale
1		X	Ultrasonic cleaner
1		X	Microviewers
1		X	Flex Cam
1		X	Triple-beam balance
6-7	X	X	Sinks, stainless steel (with sink covers)
1	X		Safety shower and eye wash
1	X		Glassware drying rack, mounted above sink
4		X	Computer
2		X	Printer

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Computer and printer for teacher
1	X		Marker Board, 4' x 16', with map rail and flag holder
3	X		Tack Board, 4' x 4'
1	X		80''w x 60''h video format screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

B. Material Storage (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Glassware drying rack, mounted above sink
1		X	Trash can, 25-gal. capacity, non-metal
1	X		Refrigerator with ice-maker, 22 cu.ft.
1	X		Dishwasher (in 8 th grade storage room)
1	X		Double stainless steel sink
1	X		Flammable storage
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating / Cooling / Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.

- G. Window** - As required to meet District Standards. Observation window between material storage and laboratory
- H. Doors** - As required to meet District Standards. The doors must be lockable in material storage areas with vision panels.
- I. Water/Plumbing Fixtures** - As required to meet District Standards. Provide master shut-off valve for water.
- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Master shut-off control switch for each demonstration room.
- L. Instructional Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards. Provide gas and air at teacher station and at student stations in the chemistry laboratory only. Provide master shut-off valves for gas and air.
- N. Safety** - As required to meet District Standards.
- O. Fencing** – As required to meet District Standards.
- P. Service Drives** – As required to meet District Standards.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
- 1. Classrooms/Laboratory (per)**
 - a. Provide maximum base cabinets with drawers and adjustable shelves with doors; and upper cabinets with adjustable shelves for microscope storage, etc. Provide sinks (6-7) equally spaced in counter, one for disable accessible. In the chemistry laboratory, counter top shall be acid-resistant. The student lab areas shall have cold water. The student lab area in chemistry shall also have air.
 - b. Provide teacher demonstration table, 72”, permanent, with sink, water, electrical and data connection, gas and air hook-ups in the, with above demonstration mirror. In the chemistry laboratory, counter top shall be acid-resistant.
 - c. Provide computer counter to accommodate four (4) computers and two (2) printers (14’W x 30”D). The counter shall have grommets for wire management.
 - d. Provide Multimedia cabinet - refer to General Considerations.

2. Storage Room (per)

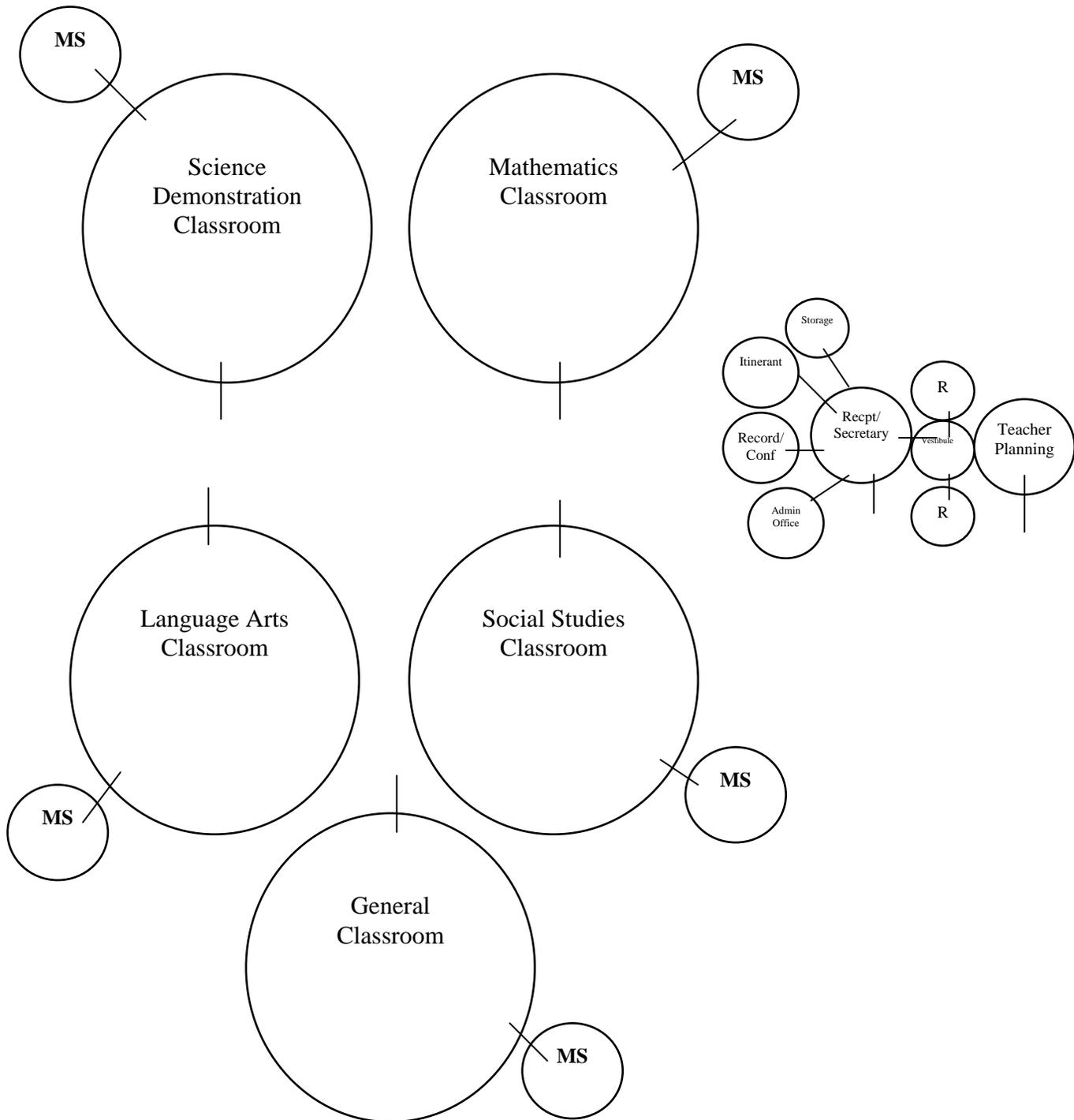
- a. Provide a counter with double sink in material storage room.
- b. Provide storage cabinet (3), 36"W x 18"D x 84"H, louvered doors, adjustable shelves, lockable in storage room.
- c. Provide flammable storage cabinet, built-in vent, lockable.
- d. Provide maximum metal shelving with adjustable shelves along one long wall.

S. Other Considerations

N/A

SPATIAL RELATIONSHIPS

**Campus Functional Relationship Diagram
(Academic Houses)**



SKILLS DEVELOPMENT LABORATORY

I. PROGRAM PHILOSOPHY

The study of Computer Science and Foreign Language are vital and necessary disciplines with its own learning procedures and objectives that serve to enrich the lives of students and prepare them to live in the world today.

II. PROGRAM GOALS

The program goals are to develop skills of Language Behavior (Hearing, Speaking, Reading and Writing) and important knowledge of Foreign Language. Students will be provided educational programs designed to meet their individual needs.

III. PROGRAM ACTIVITIES

The class will use district-adopted instructional materials. Slides, maps and pictures will add to the appreciation of programs. Class participation will emphasize listening and speaking in the language. Instruction will be provided in academic, vocational, living skills and enrichment curriculum areas.

The class will continue audio-lingual instruction on a more advanced level. Grammar, composition and conversation will be emphasized. Students will participate in language and computer skills.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:22

Grade Levels for Which Program is Intended: 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Laboratory shall have six rectangular tables facing one direction, able to seat five students per table and all students facing one direction. Laboratory shall have tape program with workbooks. Students listen to a pre-recorded tape, then student shall be able to self answer the tape and play back to listen to student's own voice. Pre-recorded tape must not be erasable, but student's voice must be erasable. Teacher shall be connected to the student's stations so teacher can listen to each student individually.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) -

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				SKILLS DEVELOPMENT LABORATORY			
011	3	Skills Development Laboratory		900	2,700	22	66
808	3	Material Storage		45	135		
		TOTAL			2,835		66

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Skills Development Laboratory**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Workstation with wire management
1		X	Table, 30" x 72"
1		X	Speaker's lectern, 42" x 25" x 11-3/4"
2		X	File cabinet, four-drawer, legal, lateral, lockable
30		X	Chair, stackable
30		X	Computers
4		X	Printers
1		X	Computer and Printer for teacher
1	X		Marker Board, 4' x 16', with map rails and flag holder.
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Bookcase
1		X	Pencil sharpener, electric
1	X		Clock (contacted to master bell system)
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		TV/Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

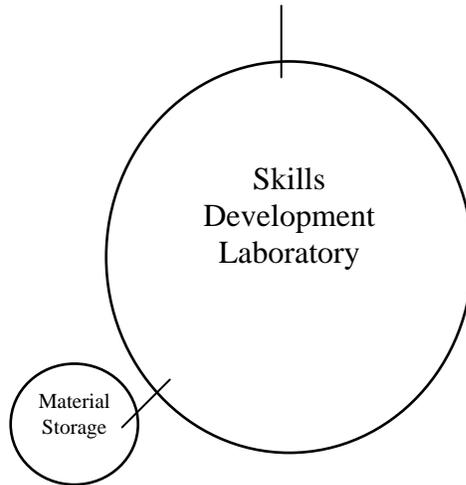
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating / Cooling / Ventilation** – As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** – As required to meet District Standards.

- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Window** - As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.
- I. **Water / Plumbing Fixtures** - As required to meet District Standards
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards. Provide computer/data hook ups for student use to allow perimeter and/or peninsular set-up.
- M. **Gas and Air** – As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide maximum upper cabinets with lockable doors and adjustable shelves. Cabinets shall have a 14”d clearance inside the cabinets.
 - 2. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 3. Provide metal shelving (3 – 36”w x 18”d x 80”h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Skills Development Laboratory



Not all spaces are shown

SOCIAL STUDIES

I. PROGRAM PHILOSOPHY

The middle school Social Studies program is organized around and focused on personal and societal goals that help students become effective participants in the social world. Additionally, the program provides an understandable framework for integrating knowledge from History and the Social Science disciplines and for explicating the major knowledge, values, and participation goals of Social Studies.

II. PROGRAM GOALS

The middle school Social Studies program is organized around and based upon the preparation of students for more reflective and effective political participation in their society. The program goals include:

- A. **Socialization** - aimed at helping students to become effective members of social groups.
- B. **Decision-making processes** - aimed at helping students to make effective use of intellectual skills in reaching decisions about their social concerns.
- C. **Citizenship** - aimed at helping students to use more effectively the process of a representative-democratic government.
- D. **Knowledge acquisition** - aimed at helping students to acquire and utilize information and intellectual skills provided through the Social Studies curriculum.

The program stresses the assimilation of three important perspectives of Social Studies: (1) subject, (2) learner, and (3) society.

III. PROGRAM ACTIVITIES

A. **Curriculum**

- | | |
|--------------------|---------------------|
| 1. Geography | 5. American History |
| 2. World History | 6. World Culture |
| 3. Florida Studies | 7. Economics |
| 4. World Geography | |

B. Teacher Activities

1. Confer with individual students.
2. Consult with small groups on activities, discussions, or projects.
3. Lead large or small discussion groups.
4. Plan bulletin board and interest centers.
5. Make recommendations as to selection of materials and equipment.
6. Plan with team of teachers for class and intra-level group activities.
7. Assist with assembly programs.
8. Sponsor enrichment programs.
9. Provide demonstrations.
10. Help plan and lead field trips.
11. Lecture.
12. Interview resource people.
13. Provide techniques for teacher and student evaluation of learning.
14. Conduct teacher, parent and pupil conferences.

C. Student Activities

1. **Think** - Creative and critical thinking, problem-solving associations.
2. **Listen** - Tapes, lectures, records, speeches, discussions, radio, TV, movies, guests, classmates.
3. **Speak** - Speeches, explanation, dramatization, demonstrations, simulations, class and panel discussions.
4. **Read** - Textbooks, reference books, reports, magazines, newspapers, fiction, trade books.
5. **Write** - Creative writing, reports, research papers, outlines, summaries, speeches, comparisons.
6. **View** - Slides, pictures, TV, maps, charts, globes, overlays, field trips and other projected materials.
7. **Inspect** - Relief maps, road maps, globes, artifacts, samples, pictures, charts, graphs.
8. **Construct** - Booklets, displays, posters, scrapbooks, graphs, bulletin boards, maps, charts, diagrams, time lines, pictures, replicas, dioramas, mobiles, murals.

IV. ORGANIZATIONAL NOMENCLATURETotal - Student Ratio: 1:22Grade Levels for Which Program is Intended: 6 - 8**V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES**

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
SOCIAL STUDIES							
002	9	Classroom		900	8,100	22	198
808	9	Material Storage		45	405		
		TOTAL			8,505		198

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Classroom**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
22		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
4-10		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
1		X	Map/Globe
1	X		Marker Board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 1. Provide base cabinet with lockable doors and adjustable shelves, and upper

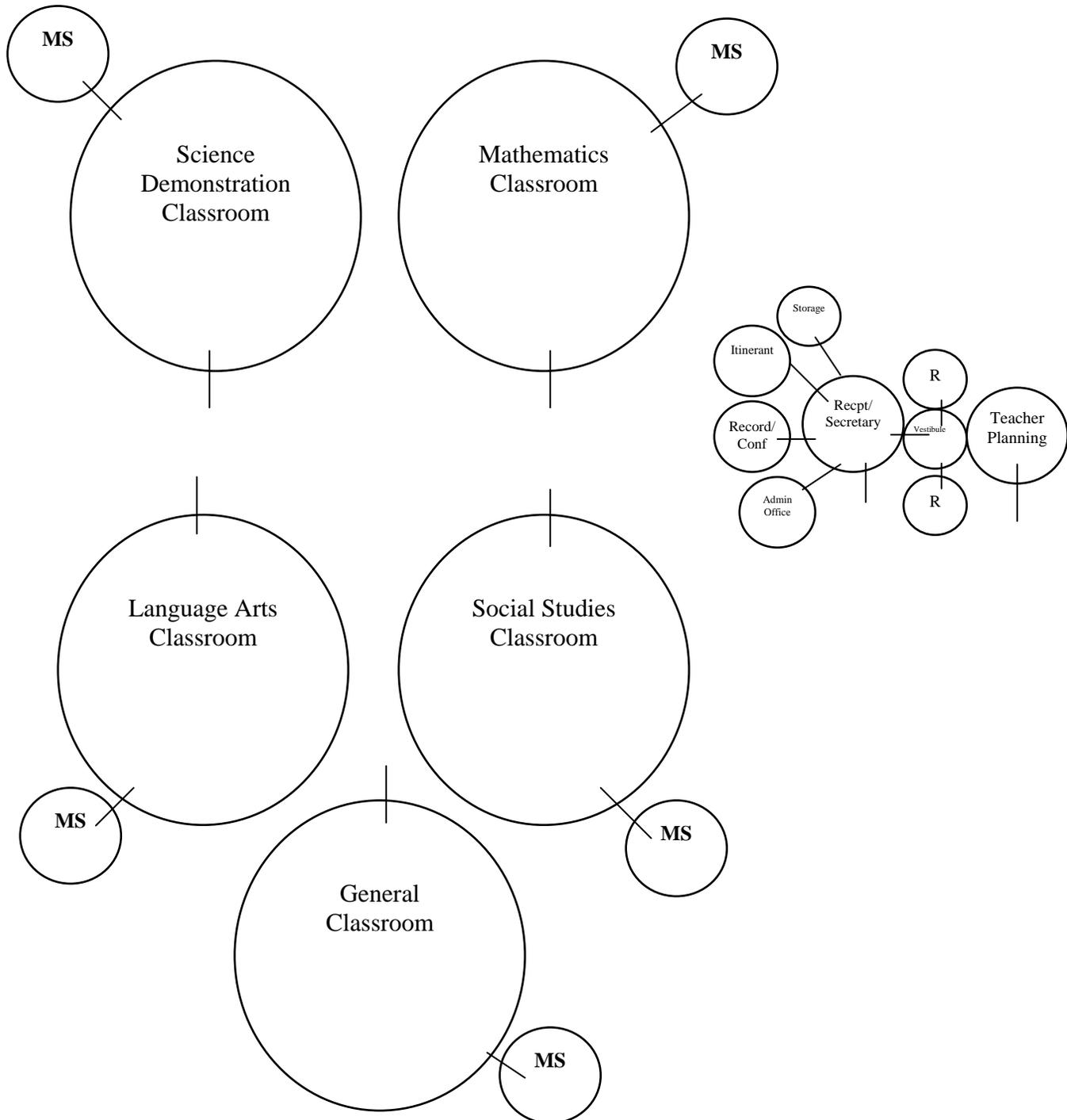
cabinets with lockable doors and adjustable shelves.

2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
4. Provide Multimedia cabinet and workstation - refer to General Considerations.
5. Provide metal shelving (3 – 36"w x 18"d x 80") in storage.

S. Other Considerations - N/A

SPATIAL RELATIONSHIPS

**Campus Functional Relationship Diagram
(Academic Houses)**



STAGE/SUPPORT**I. PROGRAM PHILOSOPHY**

Refer to overall.

II. PROGRAM GOALS

Stage / support space are to provide facilities in support of instructional programs, and to encourage out-of-class use of students and staff.

New trends in teaching methods and new awareness of the school as a community center make stage / support essential auxiliary teaching and community activities spaces for the middle school.

With a growing concern to utilize large rooms for multiple purposes, the dining room will be served by stage / support facilities.

The architect is encouraged to explore planning alternatives for stage / support spaces as related to the dining hall for most effective utilization.

III. PROGRAM ACTIVITIES

The stage / support areas will provide the following:

- A. A convenient setting for presentations to large group assemblies for a variety of purposes - instruction, meetings, displays, etc.
- B. A facility for teaching participation in, and appreciation of, the performing arts.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher/Student Ratio: Varies

Grade Levels for Which Program is Intended: 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. The project architect is encouraged to study stage design alternatives which permit use of stage area. In addition, special lighting and sound equipment shall be considered.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) - N/A

- A. 100 NSF for Control Booth to CCTV Studio-Production.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				STAGE/SUPPORT			
363	1	Stage			990		
364	1	Stage Storage			650		
365/366	2	Dressing Room		325	650		
	1	Control Booth (to CCTV Studio-Production)	100		0		
TOTAL					2,290		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Stage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Stage Curtains
	X		Microphone jacks for stage at the trust and overhead
1	X		Video Format Screen with black masking borders, 12'w x 10'h min, electrically operated
1	X	X	LCD Projector
1	X		Multimedia cabinet (refer to general considerations)
	X		Built-ins (refer to special considerations)

B. Dressing Room (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	Chairs, stable
1	X		Single sink with (HW/CW).
1		X	Full length mirror
1	X		Tack board, 3' x 4'
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

For specific ventilation and fire protection requirements refer to SREF.

- A. Heating / Cooling / Ventilation** – As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.

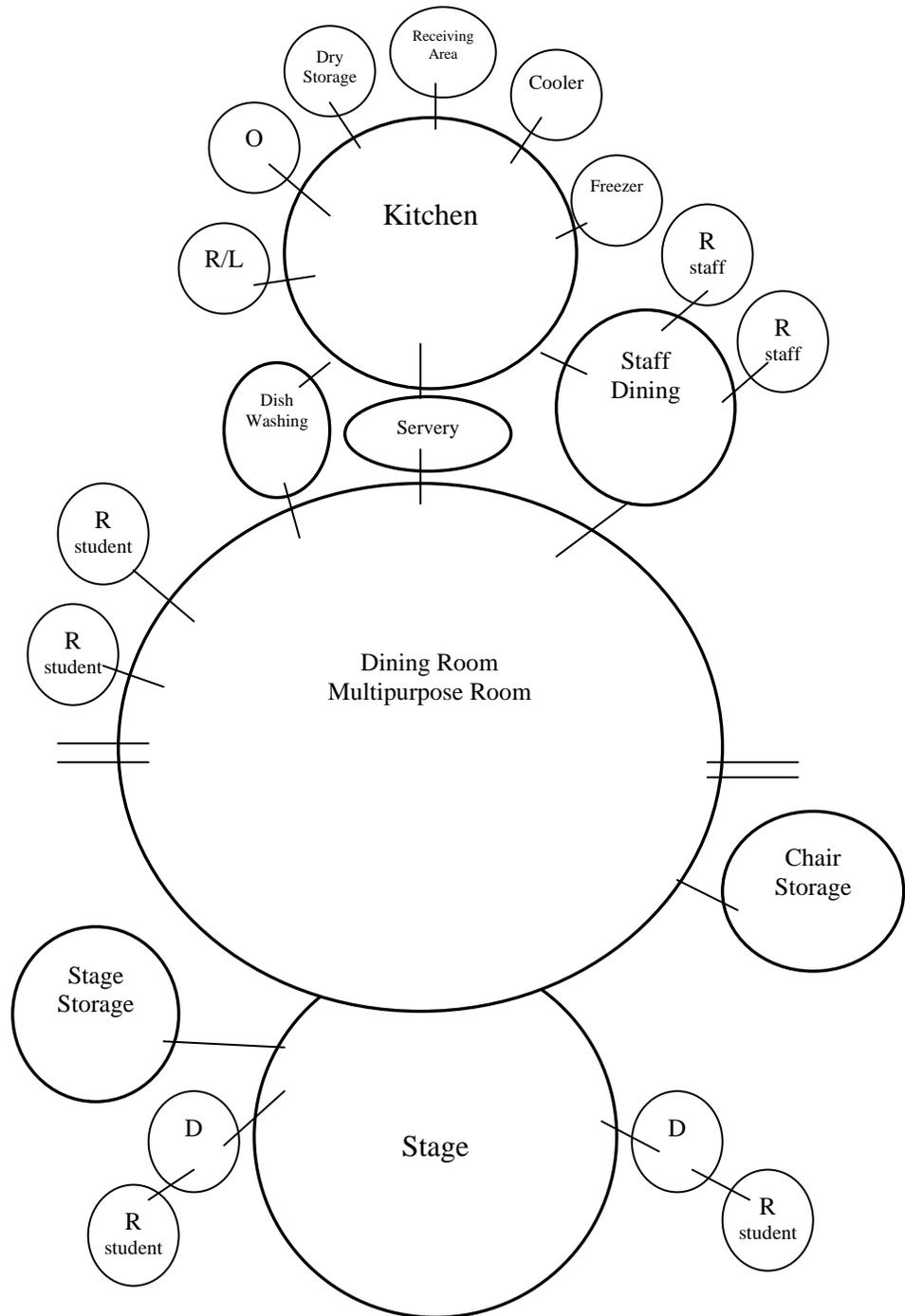
- D. Walls** - As required to meet District Standards.
- E. Ceiling** - As required to meet District Standards. Provide pipe gridirons and curtains, including drops and panels.
- F. Lighting** - As required to meet District Standards. Incandescent, ceiling lights, with individual control, shall be provided. Stage lights shall be equipped with dimmer switches. In dressing room stations, lighting shall be individually controlled.
- G. Windows** - As required to meet District Standards.
- H. Doors** - As required to meet District Standards. A double door with removable mullion, 8'H, shall be provided for stage access from the exterior.
- I. Water / Plumbing Fixtures** - As required to meet District Standards.
- J. Communications** - As required to meet District Standards. Sound panel to house equipment. Provide access to Closed-Circuit TV. ITV broadcast capability from stage and dining room. Provide microphone outlets on stage.
- K. Electrical** - As required to meet District Standards.
- L. Instructional Technology** – As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
1. Dressing Room (per)
 - a. Provide counter for six students, each with mirror and incandescent lighting.
 - b. Provide lockable wardrobe cabinets (2) for street clothes.
 2. Storage Room
 - a. Provide adjustable shelving, one wall, floor to ceiling, 12"D.
 3. Provide multimedia cabinet - refer to General Considerations.

S. Other Considerations

1. Electric, data and microphone jack should be located near the front of the stage.

SPATIAL RELATIONSHIPS

Food Services/Multipurpose Room & Stage



- R = Restroom
- R/L = Restroom/Lockers
- D = Dressing Room with restroom
- O = Office

TEACHER PLANNING

I. PROGRAM PHILOSOPHY

Refer to overall.

II. PROGRAM GOALS

The goal is to provide teachers and staff with a comfortable and restful environment in which to mentally and physically relax during non-duty periods.

III. PROGRAM ACTIVITIES

The teacher planning areas shall provide spaces for the social and emotional development of teachers and staff. It also provides the opportunity for small group meetings and planning.

IV. ORGANIZATIONAL NOMENCLATURE

During the course of the day staff members will use the facilities. The number of people, at any one time, will vary.

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Teacher Planning shall be located in music and physical education.
- B. Teacher Planning shall be located within the instructional area and adjacent to the Academic House Administration area.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
TEACHER PLANNING							
315	3	Teacher Planning		600	1,800		
		TOTAL			1,800		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Teacher Planning

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Vending machine(s)
1-2		X	Copier
8-10		X	Computers
8		X	Printers
8-10		X	Computer Desk
1	X		Tack board, 4' x 6'
1	X		Clock
1			Refrigerator
1			Microwave
	X		Built-ins (refer to special considerations)
1		X	Work table

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

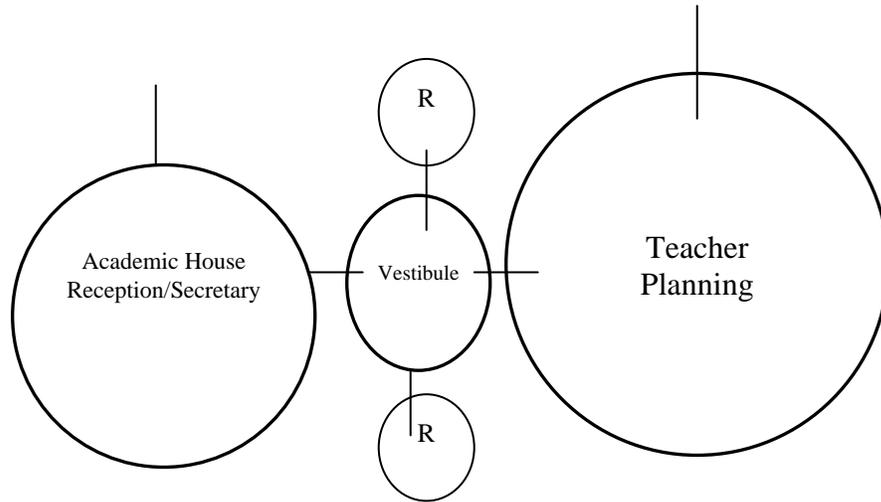
Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. Heating/Cooling/Ventilation – As required to meet District Standards.
- B. Acoustical - As required to meet District Standards.
- C. Floor - As required to meet District Standards.
- D. Walls - As required to meet District Standards.
- E. Ceiling - As required to meet District Standards.
- F. Lighting - As required to meet District Standards.
- G. Windows - As required to meet District Standards.
- H. Doors - As required to meet District Standards.
- I. Plumbing Fixtures/Water - As required to meet District Standards.
- J. Communications - As required to meet District Standards.
- K. Electrical - As required to meet District Standards.
- L. Instructional Technology - As required to meet District Standards. Provide computer/data hook ups.
- M. Gas and Air - As required to meet District Standards.
- N. Safety - As required to meet District Standards.

- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins** -
 - 1. Provide upper and lower cabinet with sink.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Teacher Planning



R = Restroom, staff

CAREER EDUCATION
BUSINESS

I. PROGRAM PHILOSOPHY

Business Technology Education in Palm Beach County provides students with the opportunity to explore the world of work. Through the self-examination of personal attitudes and interests, students explore various careers and develop a career plan. Students are exposed to basic office skills such as keyboarding, business mathematics, and business communications which are needed in every occupation. Computer use is a vital part of the Business Technology Education program. Activities include the use of a word processor, a database manager, a spreadsheet, a presentation manager, and on-line service.

Future Business Leaders of America (FBLA) Middle School Division is the appropriate vocational student organization for providing leadership and organizational skills experiences and for reinforcing the skills that are taught in Business Technology Education.

II. PROGRAM GOALS

- A. Assist students in the appraisal of their individual abilities, potential, interest, desires, and needs.
- B. Provide students with classroom experiences in a variety of business related careers.
- C. Provide hands-on business learning experiences that will assist students with exploring a variety of career opportunities.
- D. Provide students with assistance in developing desirable attitude toward work, establishing solid work ethics, and recognizing the dignity of every occupation.
- E. Provide students with opportunities to participate in activities which expose them to business related courses of study at the high school and post-secondary levels.
- F. Provide an introduction to keyboarding, computer applications, and on-line services and the necessity of fundamental business skills for all careers.
- G. Provide students with opportunities to experience activities in which they learn to accept responsibilities, to make decisions, and to work with a diverse group.

- H. Assist students in developing leadership and organizational skills through participation in FBLA-Middle School Division.

III. PROGRAM ACTIVITIES

All students in the business education area are in grades sixth through eighth, including special needs students. Instruction and learning activities will be provided in a laboratory setting that is reflective of a typical business environment.

A. Business Keyboarding

Business Keyboarding is designed to provide instruction in keyboarding for business applications. The content of this course provides the skills necessary to ensure increased productivity and efficient utilization of equipment. Laboratory activities including field trips, job shadowing, special projects, and the use of guest presenters from the business community are appropriate for this course. Computers and software must be made available to students in this course. Participation in FBLA activities, meetings, and programs are essential.

This course is one semester in length and it is recommended to be offered at the sixth grade level.

B. Computer Applications in Business 1-4

These courses are designed to provide instruction in keyboarding, word processing, intermediate electronic presentation, computer hardware, Internet, spreadsheet and soft skills for business applications. These competencies provide the skills necessary to ensure increased productivity and efficient utilization of equipment. Participation in FBLA activities, meetings and programs are essential.

Laboratory activities are essential part of these courses. They are designed as hands-on classes. It is essential that technology, specifically computers and appropriate software, be made available to students in these courses. It is recommended that a project-based approach be utilized to deliver the concepts.

Each course is one semester in length and it is recommended that 1 & 2 be offered at the seventh grade level and 3 & 4 be offered at the eighth grade level.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Pupil Ratio 1:22
 Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Every business, international and domestic, is dependent upon computers for completing day-to-day activities. If business technology education is to successfully prepare students to enter the workforce at one point in time, it is absolutely necessary that each lab be equipped with a minimum of 35 multi-media computers and peripherals such as laser printers and scanners.
- B. Every business technology education lab should be wired to support a lab 30 computers.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) - N/A

- A. Project Storage areas shall be combined into one large space that shall serve as the teacher planning/storage. This area shall have observation windows, telephone jack, and the appropriate wiring, electronics, and cabling for the network.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION - BUSINESS							
210	2	Orient/Explore Business Laboratory		1,210	2,420	22	44
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
TOTAL					2,920		44

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Business Keyboarding & Applications Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Student Tables, 30"D x 48"W x 27"H, with CPU Tower Holder and wire management
30		X	Student Chair, pneumatic lift, tilt, caster base, armless
1		X	Teacher chair with executive chair back 20"W x 19"D, tilt with lock, pneumatic lift, arms, and five-star wide

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			base with hooded casters
1		X	Side chair for teacher desk, no casters
30		X	Computer workstation with wire management
1		X	Software
30		X	Computers
1		X	Inkjet Color Printer
1		X	Laser printer
1		X	Computer and printer for teacher
1		X	Scanner, color, full page, table top, with OCR editing software, cable
30		X	Financial calculator with memory, both display and print
2		X	Vertical File, four drawer, legal, lateral, with lock
1		X	Table, 72" x 30", laminated top, adjustable
1		X	Paper cutter, small
2		X	Stapler electric
1		X	3-hole Puncher, electric
1		X	Pencil sharpener, electric
1		X	Lectern with shelf, 23" x 12 1/2" x 44"
1		X	Magazine Rack, 42" x 18" x 60"
1		X	Multi-media cabinets with 6" deep drawers
1		X	Paper shredder
1	X		80"w x 60"h video format screen with black masking borders
2	X		Marker Board, 4' x 16', with map rail and flag holder
3	X		Tack Board, 4' x 4'
2	X		Hanging fixtures for charts in front of room
1	X		Security mirror
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

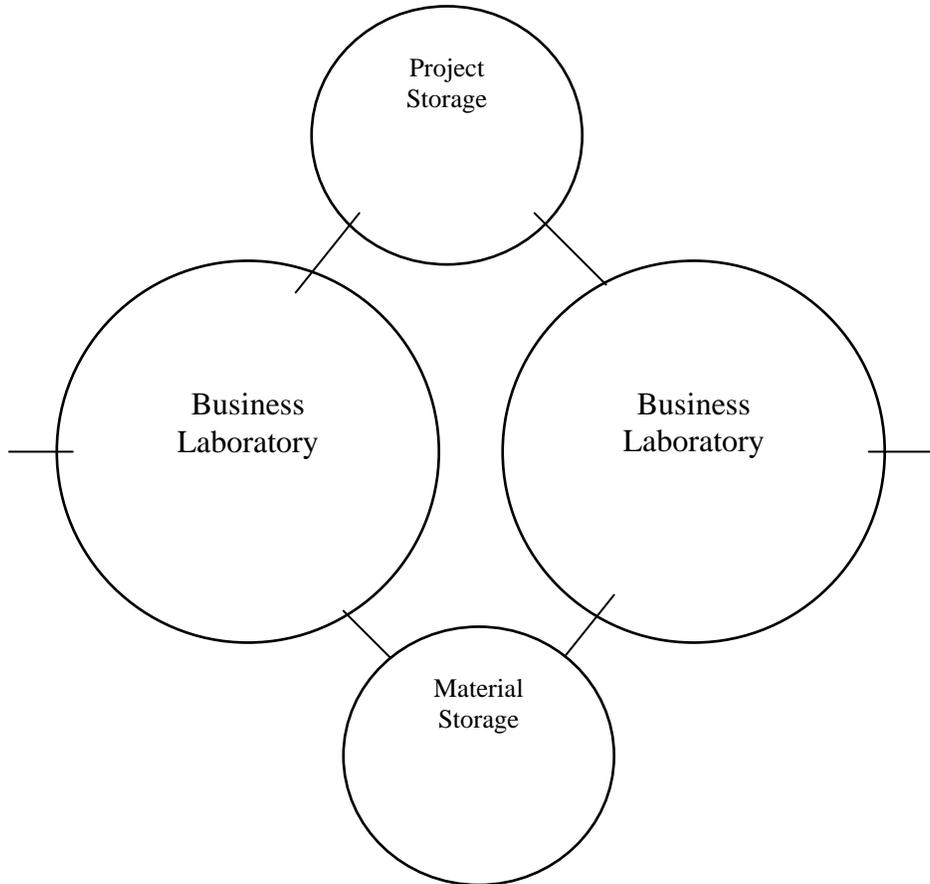
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - Refer to the HVAC System Design Requirements for the SDPBC for specific requirements.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.

- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide observation windows between the project storage and the laboratories.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** – As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards. It is desirable that the business education area be located in close proximity to parking because of its heavy population in evening and community programs.
- R. **Built-ins**
 - 1. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, with sink and upper cabinets with doors, lockable and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 4. Provide electric, data and phone in project storage.
- S. **Other Considerations** - Business Technology Education laboratories shall be located near all other vocational areas. Business laboratories shall face to the interior of the campus or shall be located on the second floor to reduce risk of theft.

SPATIAL RELATIONSHIPS

**Career Education
Business**



CAREER EDUCATION
FAMILY AND CONSUMER SCIENCES

I-III. PROGRAM PHILOSOPHY, GOAL & PROGRAM ACTIVITIES

Family and Consumer Sciences (F.A.C.S.) provides a progressive curriculum which will encourage, motivate and develop student potential. The design of the program shall provide students with experience that will acquaint them with a variety of career pathways that utilize FCS related knowledge and skills. All FCS programs are committed to encouraging all students enrolled (including gifted, talented emotionally/mental/physically handicapped) to develop to their fullest potential as they learn skills for daily management of life and job preparatory skills.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher/Student Ratio 1:22

Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Evening classes
- B. F.C.C.L.A. meetings
- C. Outreach programs for the community

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) -

- A. Material Storage areas shall be combined into one large space that shall serve as the teacher planning/storage.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION - FAMILY & CONSUMER SCIENCE							
230	1	Food Laboratory with kitchens			1,790	22	22
808	1	Material Storage			205		
		Subtotal			1,995		
230	1	Family & Consumer Science Laboratory (sewing)			1,540	22	22
808	1	Material Storage			205		
		Subtotal			1,745		
843	2	Shared Laundry Area (combined into 1)		50	100		
812	1	Shared Storage			200		
		TOTAL			4,040		44

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Food Laboratory (kitchen)

1. Teacher Demonstration Table and adjacent area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Demonstration area: sink, stainless steel, double
1	X		Demonstration area: Disposal with GFI switch
1	X		Demonstration area: Built-in Self cleaning oven with visual light door
1	X		Demonstration area: Refrigerator/freezer combination, commercial upright, frost-free, vertical hinge doors, minimum 46 cu. ft. stainless steel with shelving (used for storage of demonstration foods and as central storage of unprepared foods), lockable
1	X		Demonstration area: oven
1	X		Demonstration area: microwave
1	X		Demonstration area: Dishwasher, Jet Tech, commercial, under counter
1	X		Ice machine, 150 lb capacity
1	X		Demonstration Table (refer to special considerations)
1	X		Demonstration Table: Overhead mirror, adjustable for student viewing, cork on reverse side
	X		Built-ins (refer to special considerations)

2. Preparation Unit Kitchen (4)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4	X		Range, 30" w x 36" h, front controls, visual light door, with hoods
4	X		Double kitchen sink with kitchen faucet (HW/CW) and garbage disposal
2	X		Refrigerator/freezer with ice maker, 22 cu.ft., each serves two units
4	X		Microwaves
1	X		Fire extinguisher
1	X		Fire blanket, mounted
1	X		First Aid kit, mounted
	X		Built-ins (refer to special considerations)

3. Instructional Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Desks and chairs
6-10		X	Activity Tables
12-20		X	Chairs, stackable
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Book rack, portable, library size for reference books, recipe books, etc.
2		X	Tea cart
6		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 16' with map rail and flag holder
3	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Material Storage (Teacher Planning)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Workstation with chair
2		X	Computers
1		X	Printer
2		X	File cabinet, four-drawer, legal, lockable
	X		Built-ins (refer to special considerations)

C. Family & Consumer Science Laboratory (sewing)

1. Teacher Demonstration Table and Adjacent Area -

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Demonstration Table (refer to special considerations)
1	X		Overhead mirror, adjustable for student viewing, cork on reverse side
	X		Built-ins (refer to special considerations)

2. Student Centers

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Sewing machine (refer to special consideration for built-in cabinets)
6		X	Irons
1	X		Mirror, three-way, adjustable (with curtain track)
12		X	Microphone headsets
30		X	Computers
4		X	Printers
16		X	Modular units on: work and family, baking, shopping, environmental issues, home security, food preparation, nutrition and wellness, clothing and wardrobe, money, budget, and credit, textiles, home care, smart house, elderly and child care, color, car, TV, VCR, and Internet-www
1	X		Fire blanket, mounted
1	X		First Aid kit, mounted
	X		Built-ins (refer to special considerations)

3. Instructional Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6-10		X	Activity Tables
30		X	Desk and chairs
30		X	Student chair, stackable
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 16' with map rail and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Shared Laundry Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Washer, front loading
1	X		Dryer, vented
1	X		Laundry Tub
1		X	Vacuum Cleaner
1		X	Step stool with safety trends and fold-back seat
1		X	Fitting stool, 24" diameter x 20"H, safety tread foot surface
1		X	Hamper for towels to be folded and tablecloths to be ironed.
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
1. **Clothes Dryer:** Provide vent to outside.
 2. **Range:** Provide hood with exhaust fan and vent to outside.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** – As required to meet District Standards. Provide non-absorbent, non-slip, grease-proof quarry tile with same 6” coved base on all walls with floor drains in kitchen area.
- D. Walls** - As required to meet District Standards. Provide tile back splash in kitchen area.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** – As required to meet District Standards. Provide task lights above kitchen area.
- G. Windows** - As required to meet District Standards. Provide observation window between material storage and laboratories.
- H. Doors** - As required to meet District Standards.
- I. Water/Plumbing Fixtures** – As required to meet District Standards.
- J. Communications** – As required to meet District Standards.

- K. Electrical** - As required to meet District Standards. Duplex outlets to be provided at each end or one end and center of demonstration islands. Each food preparation unit to be equipped with two duplex outlets above each splash panel. Wall outlets provided for refrigerators, commercial. Electrical molding strips running length of walls adjacent to sewing areas to allow for flexibility in arrangement and to accommodate various quantities and types of electrical equipment, 220-volt outlets for washer, dryer, stoves, water heater, ice makers, garbage disposal, sewing machines, dishwashers, micro ovens, computer management stations, computer work stations for students and teacher, teacher demonstration centers, kitchen units, and additional convenience spaces in MS/teacher planning areas.
- L. Instructional Technology** – As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards. Fire blanket mounted on wall in exploration laboratory in close proximity to cooking area. Ground fault interrupters in exploration laboratory. Master switch in both laboratories to turn off all equipment, except refrigerators. Provide panic switch in all laboratories.
- O. Fencing** – As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards. Entrance to the department shall be adjacent to a service drive and parking area to accommodate delivery, maintenance, garbage disposal, invited guests and resource persons.
- Q. Parking** – As required to meet District Standards.
- R. Built-ins**
- 1. Food Laboratory (kitchen)**
 - a. Teacher Demonstration Table**
 - (1) Provide counter top, 9'L x 30"D x 34"H
 - (2) Provide under counter storage area with draws and cabinets, 6'L x 24"D x 34"H
 - (3) Provide double outlet, each end or one on end and one on center of demonstrator side
 - (4) Locate where all students can see, no wall. Locate off-center of the teaching wall.
 - b. Preparation Unit Kitchen (4)**
 - (1) Provide plastic laminate counter surface for preparation and service of cooked and baked products, including meals. Area 18'L x 24"D x 34"H (includes double bowl sink). Wall counter, 24" D. L-shaped kitchens are preferred. No upper cabinets protruding out into room that would block teacher's view. Kitchen units: one disabled accessible, and three regular.

- (2) Storage area
 - (a) Provide above counter: 6'W 12"D x 30"H (for dishes, mixing bowls, storage jars, staples, etc.).
 - (b) Provide below counter: 24"D x 34"H x 18"L. Storage for equipment, baking, cooking, etc. All space is utilized by use of drawers with oblong, recessed pulls.
- (3) Provide bookshelves for cookbooks and card files (12"H x 12"D x 18"W)
- (4) Provide cabinet to house microwave oven.

c. Storage Room

- (1) Provide storage for equipment and linens:
 - (a) Upper cabinet, 12"D x 30"H x 28"W
 - (b) Lower cabinet, 24"D x 34"H x 28"W
- (2) Provide pantry, 6' x 5'; adjustable shelves, 11"D on two sides; 24"D on back side.
- (3) Provide metal shelving with adjustable shelves along one wall.

2. Family & Consumer Science Laboratory (sewing)

a. Teacher Demonstration Table

- (1) Provide plastic laminate counter, 6'W x 30"D x 34"H
- (2) Provide under counter storage area with draws and cabinets, 6'L x 24"D x 34"H
- (3) Provide double outlet, each end or one on end and one on center of demonstrator side
- (4) Locate where all students can see, no wall. Locate off-center of the teaching wall.

b. Student Area

- (1) Provide Computer/Sewing Tech Workstations, keyboard mouse slide tray, under counter door locked storage unit, attached spring-loaded pop-up sewing machine storage with grommets for electrical outlets in the counter top and upper lockable adjustable shelving cabinets to house sewing machines, books, etc.

- (2) Provide ironing center (3), each to serve sewing center (3) (recessed in closet) and located in laboratory
 - a. Provide fold down (or out) ironing board
 - b. Provide storage area for iron, pressing mitts

c. Storage Room:

- (1) Provide section to accommodate 200 tote trays, 6"H x 19"L x 10"W. Caster arrangement: two stationary, two swivel, with foot brakes and one swivel, centered; each long side to be divided into four equal sections to house tote trays, remaining section with slide-out shelves. Each section is to be enclosed with doors, with locks keyed to one master
- (2) Interior of doors to be outfitted with slots, grooves and hooks for storage of scissors, seam rippers.
- (3) Provide metal shelving with adjustable shelves along one wall.
- (4) Provide two storage cabinets, lockable 1 for hanging garments and 1 for folded garments (shelves).

3. Shared Laundry Room

- a. Provide built-in, lockable storage cabinet for laundry supplies (detergent, starch, bleach).
- b. Provide storage space for folded linens with doors and lockable.

4. All Laboratories

- a. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
- b. Provide computer counter to accommodate six (6) computers and three (3) printers. The counter shall have grommets for wire management.
- c. Provide Multimedia cabinet and workstation - refer to General Considerations,
- d. Provide storage compartment (30), for student use (personal belongings), 15"H x 15"D x 15"W

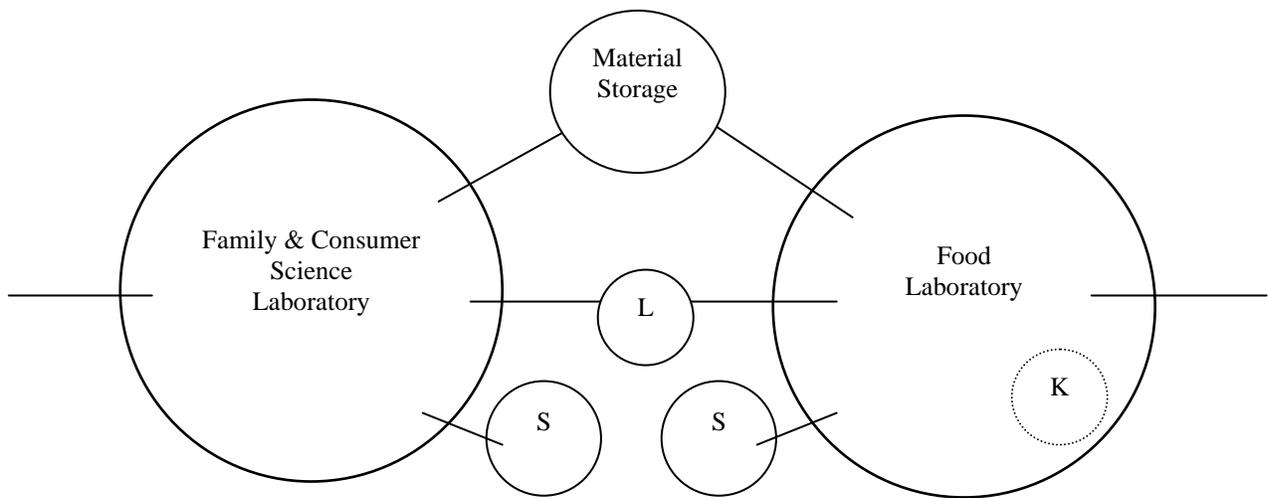
S. Other Considerations

1. All locks on cabinets, storage areas and display area shall be keyed for one master
2. Sewing machines must be grounded

3. All stationary cabinets and counters have 3" toe space
4. A side-by-side washer and dryer laundry space with hot water heater of sufficient capacity to serve all of the laboratory needs shall be provided in the food laboratory.
5. Laboratory areas shall be designed to accommodate flexible use of classrooms and furniture.
6. Provide electric, data and phone in material storage.

SPATIAL RELATIONSHIPS

**Career Education
Family and Consumer Science**



S = Storage
K = Kitchen
L = Laundry

CAREER EDUCATION
PRE-MEDICINE

I. PROGRAM PHILOSOPHY

The Pre-Medicine Education Program provides students with the opportunity to explore the medical fields. Through self-examination of personal attitudes and interest students explore various medical careers and develop career plans.

II. PROGRAM GOALS

- A. Assist students in the appraisal of their individual abilities, potentials, interest, desires and needs.
- B. Provide students with classroom experiences that will assist students with exploring a variety of career opportunities.
- C. Provide hands on business learning experiences that will assist students with exploring a variety of career opportunities.
- D. Provide students with assistance in developing desirable attitude toward work and establishing solid work ethic.
- E. Provide students with the opportunity to participate in activities which expose them to medical related courses of study at the high school and post-secondary levels.

III. PROGRAM ACTIVITIES

The following courses will be offered: Orientation to Health Occupation; Orientation to Nursing and Exploration of Health Occupation. This program provides students with the opportunity to explore the medical fields. Laboratory activities include, but not limited to special projects, field trips, job shadowing and presenters from professionals in the medical fields.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher/Student Ratio 1:22

Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Laboratory area shall accommodate science-related interest areas such as biology, chemistry, etc.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) -

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION – PRE-MEDICINE							
250	1	Pre-Medicine Laboratory			1,012		22
808	1	Material Storage			100		
TOTAL					1,112		22

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Orientation & Exploration Lab (Pre-Medicine)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Student desk or 15 tables, 2 students per table
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back
1		X	Activity Table
30		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
2		X	Laboratory cart, portable
1	X		Fume hood, permanent, vented to outside
1		X	Safety shield, (explosion shield) portable
1		X	Sterilizer for safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
30		X	Microscope
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
30		X	Student apron
1		X	Teacher Lab coat
1		X	Electronic Scale
1		X	Ultrasonic cleaner
1		X	Microviewers
1		X	Flex Cam
1		X	Triple-beam balance
8	X	X	Sinks, stainless steel
1	X		Deluge shower and eye wash
10		X	Computer
2		X	Printer

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator, under counter
1	X		Marker Board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		80" w x 60" h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Glassware drying rack, mounted above sink
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

B. Material Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Glassware drying rack, mounted above sink
1		X	Trash can, 25-gal. capacity, non-metal
1	X		Refrigerator with ice maker, 22 cu.ft.
1	X		Dishwasher
1	X		Double stainless steel sink
1	X		Flammable storage cabinet
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROLS.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards. Acoustical materials shall be utilized to compensate for general noise resulting from laboratory work.
- C. **Floor** – As required to meet District Standards.

- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Window** - As required to meet District Standards. Provide observation window between material storage and laboratory
- H. **Doors** - As required to meet District Standards. The doors must be lockable in material storage areas with vision panels.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide master shut-off valve for water.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Master shut-off control switch for each demonstration room.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards. Provide gas and air at teacher station and at student stations in the chemistry laboratory only. Provide master shut-off valves for gas and air.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**

1. **Classrooms/Laboratory**

- a. Provide maximum base cabinets with drawers and adjustable shelves with doors; and upper cabinets with adjustable shelves for microscope storage, etc. Provide sinks (6-7) equally spaced in counter, one for disable accessible. In the laboratory, counter top shall be acid-resistant. The student lab areas shall have cold water. The student lab area shall also have air.
- b. Provide teacher demonstration table, 72”, permanent, with sink, water, electrical and data connection, gas and air hook-ups in the, with above demonstration mirror. In the laboratory, counter top shall be acid-resistant.

- c. Provide computer counter to accommodate 8-10 computers and 4-6 printers. The counter shall have grommets for wire management.
- d. Provide Multimedia cabinet - refer to General Considerations.

2. Storage Room (per)

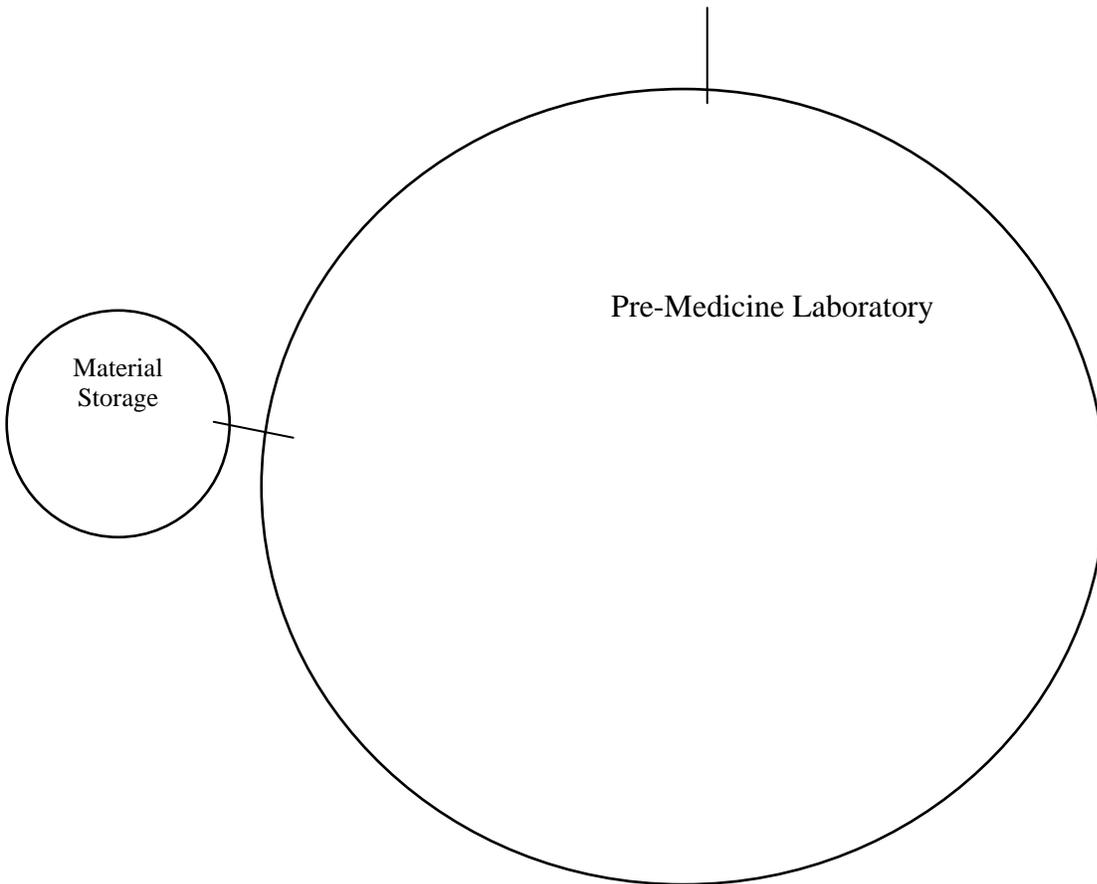
- a. Provide a counter with double sink in material storage room.
- b. Provide storage cabinet (3), 36"W x 18"D x 84"H, louvered doors, adjustable shelves, lockable in storage room.
- c. Provide flammable storage cabinet, built-in vent, lockable.
- d. Provide maximum metal shelving with adjustable shelves along one long wall.

S. Other Considerations

N/A

SPATIAL RELATIONSHIPS

**Career Education
Pre-Medicine**



CAREER EDUCATION TECHNOLOGY

I. PROGRAM PHILOSOPHY

Technology Education is a comprehensive, action-based K-12 discipline designed to incorporate information technologies, physical technologies, and biotechnologies in promoting the integration of academic and career skills with an emphasis on problem solving and decision making that is essential in developing the human potential needed to compete in a technological society. Technology Education provides exploratory experiences which help the student make wiser and more valid educational and occupational choices which may be articulated with vocational, technical, or higher education requirements. The strength of the program lies in learning through laboratory activities performed by the student.

II. PROGRAM GOALS

This program is designed to provide students with a foundation of knowledge and technically oriented experiences in the study of the applications of technology and its effect upon our lives and the choosing of an occupation.

III. PROGRAM ACTIVITIES

A. General Activities (applicable to all laboratories)

1. Planning by individuals and groups.
2. Observing, analyzing, and solving problems.
3. Experimenting in the laboratory by individuals and groups.
4. Performing manipulative operations.
5. Designing, developing, and producing products.
6. Maintaining equipment and tools.
7. Teacher demonstration.
8. Testing of individuals and groups.

B. Specific Activities

1. Exploration of Communications Technology Laboratory

- a. Identify and explore careers.
- b. Use basic drafting tools and instruments.
- c. Use proper layout and design skills.
- d. Produce a product utilizing printing technologies.
- e. Use a computer to process information.

2. Exploring Technology Laboratory

- a. Perform electronic technology laboratory activities.
- b. Perform computer technology laboratory activities.
- c. Perform basic drafting skills using traditional methods.
- d. Perform basic drafting skills using computer assisted technology.

- e. Perform basic production skills using traditional tools, equipment, and methods.
- f. Perform basic production skills using CAD / CAM, CNC, Robots, Work Cells, etc.
- g. Perform basic energy, power, and transportation skills using traditional tools, equipment, and methods.
- h. Perform basic energy, power, and transportation skills using today's technology of tools, equipment, and methods.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:22

Grade Levels for Which Program is Intended 6 - 8

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Facilities will be made available for Adult and Community Education programs.
- B. Facilities will also be made available to other agencies for lectures, demonstrations, and workshops.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Technology Education Laboratories shall be combined with Technology Resource Centers creating two large laboratories.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION - TECHNOLOGY							
240	2	Orient/Explore Technology Laboratory		2,090	4,180	22	44
808	2	Material Storage		90	180		
849	2	Project Storage		310	620		
851	2	Tool Storage		310	620		
852	2	Technology Resource Center		800	1,600		
TOTAL					7,200		44

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Exploration of Communications Technology Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher's chair, arms, swivel, five casters, fixed back
4		X	Quad-type work station, eight students each
1		X	Computer, telecommunications station
18		X	Computer tables with wire management
18		X	Computers
6		X	Printers, laser and ink jet
1		X	Computer and printer for teacher
2		X	Scanner
		X	Various computer software
1		X	Super VHS Camcorder, tripod
1		X	Super VHS VCR, edit functions, editor
5		X	Planning table, 72" x 30" x 32", hard maple construction, plastic laminate top, <u>no drawers</u>
30			Student computer table chair, swivel, five casters, pneumatic lift, non-tilt, armless, fixed back.
30		X	Student stack chair, chrome frame, solid melamine plastic seat and back
2		X	File cabinet, four drawer, legal, lateral, lockable
1		X	Light table, 24" x 28" top, floor model, 115V, 1A
2		X	Microphone headset (2), wireless, FM transmitters
1		X	Drafting supply cabinet, 48"W x 22"D x 84"H, with supplies for 24 students, made of hard maple framing and hardwood plywood panels
16		X	Curriculum module
2	X		Marker Board, 4' x 16' with map rail and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Single sink with goose neck faucet (HW/CW)
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Exploring Technology Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher's chair, arms, swivel, five casters, fixed back
1		X	Computer, telecommunications station
18		X	Computer tables with wire management
18		X	Computers
6		X	Printers, laser and ink jet
2		X	Scanner
1		X	Computer and printer for teacher
		X	Various computer software
30			Student computer table chair, swivel, five casters, pneumatic lift, non-tilt, armless, fixed back.
1		X	Portable power tool cabinet, 60"W x 22"D x 84"H, two sections each with five adjustable shelves, made of hard maple framing with hardwood plywood panels.
2		X	File cabinet, four drawer, legal, lateral, lockable
1		X	Bench, woodworking, 64"W x 54"D x 33-1/4"H, with vises, six locker bases, maple top
2		X	Wall bench (2), 72"W x 24"D, nine locker base, maple top.
2	X		Marker Board, 4' x 16' with map rail and flag holder
1		X	Tool storage cabinet, 62"W x 22"D x 84"H, for general hand tools, made of hard maple framing and hardwood plywood panels,
1		X	Parts storage cabinet, 36"W x 18"D x 78"H, steel, locking with 176 drawers.
3	X		Tack Board, 4' x 4'
1		X	Band saw, 14," enclosed stand on wheels, miter gauge and rip fence, wheel and blade guards, arbor and motor pulleys, V-Belt, blade guides, wood cutting blade, 25"W x 18"D, magnetic control switch, 3/4 HP single phase motor, 230V, 7A.
1		X	Band saw, 8", bench top mounted, with miter gauge, 1/5 HP single phase motor, 115V, 2.5A
2		X	Scroll saw, 20", bench top mounted, multi-speed, single phase motor, 115V, 2A
1		X	Drill press, 14", bench top model, five spindle speeds, HP single phase motor, 115V, 10A
1		X	Combination belt/disc sander, 1" belt/8" disc, bench top model with miter gauge, 1/3 HP single phase motor, 115V, 10A.
1		X	Tool grinder, 6", bench top mounted, with two-piece tool rests, exhaust-type guards, two wheels, 6"W x 3/4"D x "H, (one, 36-grit and one, 60-grit), 1/3 HP single phase motor, 115/230V, 10/5A.
3		X	Vacuum cleaner, 28-gal. with 6' x 2-1/2" hose, extension wands and nozzle, 115V, 10A.
1		X	Computer numerical controlled milling machine, including a CAD/CAM Software Package and a Machinist Kit, 115V, 15A
1		X	Computer numerical controlled lathe, including a

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			CAD/CAM Software Package and a tool kit, 115V, 15A
1		X	Aerospace technology carrel, self-contained instructional system, 115V, 6A
3		X	Robotics arm, 3 axis, IBM interface, Fischertecnic or equivalent
3		X	Robotics arm, five axis, IBM interface, software to include: Motor control with four motors and two power supplies, Color Recognition Kit, Assembled Conveyor System, HALL Effect Sensor Kit.
2		X	Robotic arm Armadroid, or equivalent
1		X	Plotter and sign maker, IBM compatible with cables, Roland or equivalent, 115V, 2A.
1	X		80" w x 60" h video format screen with black masking borders
1			Pencil sharpener, electric
1	X		Single sink with goose neck faucet (HW/CW)
1	X		Clock
1	X		Multimedia Cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

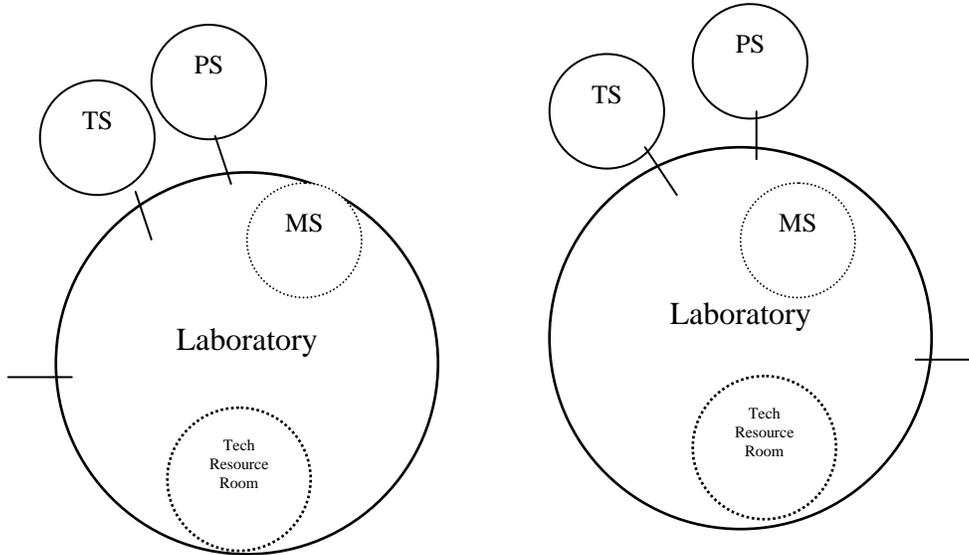
- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards. Baffles shall be installed in the laboratories to reduce the noise level when machinery is in use.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. In the Exploration of Communications Technology Laboratory, install observation windows in the wall of Material Storage Room.

- H. **Doors** – As required to meet District Standards. Provide double door with removable mullion in the laboratory opening to the outside to facilitate delivery of materials.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide hook-ups for single sink with goose neck faucet with (HW/CW) in each laboratory.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Laboratory to have 120-volt, wall-mounted, duplex outlets 6' apart. One, 120-volt, industrial quality, pull-down/retractable, ceiling-mounted extension cord to be installed above each work bench, plus power poles for quad type computer work stations. When in the retracted position, the cords shall not extend lower than 6' above the floor. Material storage to have two, 120- volt duplex outlets. Student project storage to have two, 120-volt duplex outlets.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards. Provide compressed air system.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide 24 compartment book rack for storage of student textbooks and other personal items located near the each laboratory entrance. Each compartment to be 15" x 15" x 15". One coat rack of sufficient size for 20 students located near the entrance to the laboratory.
 - 2. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves where wall space is available.
 - 3. Provide storage areas adjacent to, but separated from, the main laboratory area, shall be planned into the basic construction. Racks shall be built-in and allow for vertical and horizontal storage; shall be adequate to hold large quantities of stock safely. Separate storage for student projects which will provide easy access, yet safe storage, must be included.

4. Provide teacher demonstration table, 96"W x 30"D x 34"H, 1" plastic laminate top, double-door base unit, two adjustable shelves, five-drawer base unit, modesty panel, master keyed cylinder locks and pulls with electrical and data outlets in each laboratory.
 5. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 6. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 7. Provide Multimedia cabinet and workstation - refer to General Considerations.
- S. Other Considerations** - Room proportions shall range from square to rectangle of, approximately, one to one-and-one-half proportion. The recommended minimum width is, approximately, 30 ft. All areas of the laboratory must be observable by the teacher from any position. There shall be as few built-in obstructions as possible. Unobstructed vision is important.
1. Vacuum and air compressor systems shall be located outside classrooms.
 2. Noise control in and between laboratories.

SPATIAL RELATIONSHIPS

**Career Education
Technology**



MS = Material Storage
PS = Project Storage
TS = Tool Storage

FACILITY SPACE SUMMARY

Generic Middle School

Grades: 6 - 8

Total Student Stations: 1,458

Utilization Factor: 90%

FISH Capacity: 1,312

Program Capacity: 1,300

Core Facilities: 1,300

Facility Area	Proposed Student Stations	Net Assign Square Feet (NASF)
Administrative/Student Services		10,209
Art	56	2,972
Custodial		2,905
Exceptional Student Education	87	10,110
Food Services		13,425
General Classrooms	132	5,670
Language Arts	198	8,505
Library Media Center		8,835
Mathematics	198	8,505
Music	73	5,986
Physical Education	120	15,012
Resource Rooms		2,396
Restrooms		2,730
Science	198	9,000
Skills Development Laboratory	66	2,835
Social Studies	198	8,505
Stage/Support		2,290
Student Storage		650
Teacher Planning		1,800
Career Education	132	14,160
Totals	1,458	136,500
Mechanical @ 6%		8,190
Total Net Sq. Ft.		144,690
Circulation, Walls etc. @ 32%		46,301
Total Gross Sq. Ft.		190,991