## INDIAN AFFAIRS

## EDUCATION SPACE CRITERIA <br> HANDBOOK <br> 80 IAM 2-H



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## FOREWORD

This handbook documents the procedures required to implement the Indian Affairs Education Space Criteria. It supersedes Indian Affairs Educational Space Criteria Handbook, issued 11/1/05, and all policies and procedures related to IA Education Space Criteria that may have been created and/or distributed throughout Indian Affairs previously.

Although this handbook in intended to primarily assist Construction and Facilities Management professionals planning and coordinating facilities projects and space programs, it may also be informative for IA employees.

## JASON FREIHAGE $\begin{aligned} & \text { Digitally signed by JASON FREIHAGE } \\ & \text { Date: } 2020.050108: 10 \cdot 02-04^{\prime} 0^{\prime}\end{aligned}$

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## TABLE OF CONTENTS

1. GENERAL
1.1 PURPOSE ..... 6
2. CRITRIA HANDBOOK APPLICATION
2.1 APPLICATION ..... 7
2.2 REPLACEMENET SCHOOL SPACE PLANNING ..... 7
2.3 EXISTING SCHOOL - ADEQUACY ANALYSIS ..... 8
3. GROSS SQUARE FOOTAGE
3.1 CIRCULATION AND NON-SPECIFIC PROGRAM SPACES ..... 10
3.2 DETERMINING GROSS SQUARE FOOTAGE USING THE PLANNING METHOD ..... 10
4. INTERDISCIPLINARY/STANDARD ELEMENTARY, MIDDLE AND HIGH SCHOOL CLASSROOMS
4.1 SCHOOL GRADE LEVELS ..... 14
4.2 CLASSROOMS ..... 14
5. DEDICATED/SPECIALIZED ELEMENTARY, MIDDLE AND HIGH SCHOOLCLASSROOMS
5.1 SCHOOL GRADE LEVELS ..... 16
5.2 COMPUTER LABS ..... 16
5.3 SCIENCE LABORATORIES ..... 16
5.4 HOME ECONOMICS ..... 17
5.5 PRACTICAL AND FINE ARTS FOR ELEMENTARY AND MIDDLE SCHOOLS ..... 17
5.6 PRACTICAL ARTS FOR HIGH SCHOOLS ..... 18
5.7 FINE ARTS FOR HIGH SCHOOLS ..... 18
5.8 CAREER TECHNICAL EDUCATION ..... 19
5.9 CULTURAL STUDIES/PROGRAMS .....  20
5.10 (STEM) SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH PROGRAM ..... 20
6. SPECIAL PROGRAMS
6.1 FAMILY AND CHILD EDUCATION (FACE) ..... 21
6.2 SPECIAL EDUCATION ..... 21
6.3 GIFTED AND TALENTED ..... 22
7. ADMINISTRATION
7.1 ADMINISTRATION SPACE ..... 23
8. MEDIA CENTER (LIBRARY)
8.1 MAXIMUM SPACE ALLOWANCE FOR MEDIA CENTER (LIBRARY) ..... 25
9. PHYSICAL EDUCATION - INDOOR
9.1 MULTI-PURPOSE ROOM/GYMNASIUM FLOOR AREA ..... 27
9.2 BLEACHER SEATING ..... 27
9.3 AUXILIARY PHYSICAL EDUCATION ROOM ..... 27
9.4 SHOWER/DRESSING AREA ..... 28
9.5 LOCKER ROOMS ..... 28
9.6 RESTROOMS ..... 28
9.7 PHYSICAL EDUCATION STAFF OFFICES ..... 28
9.8 PERMANENT PLATFORM/STAGE ..... 28
9.9 STORAGE ..... 28
9.10 CONCESSION AREA ..... 29
10. PHYSICAL EDUCATION - OUTDOORS
10.1 PLAY AREA AND FIELDS ..... 30
10.2 FOOTBALL FIELD AND TRACK ..... 30
11. DINING ROOM AND KITCHEN AREA
11.1 DINING ROOM ..... 31
11.2 KITCHEN AREA ..... 31
12. AUXILIARY SPACES
12.1 AUDITORIUM ..... 33
12.2 SWIMMING POOLS ..... 33
13. SUPPORT SERVICES
13.1 BUS GARAGES AND/OR YARDS ..... 34
13.2 BUS LOADING AREA ..... 34
13.3 FACILITIES MAINTENANCE SHOP ..... 34
13.4 CUSTODIAL CLOSETS AND STORAGE ..... 35
13.5 GENERAL STORAGE ..... 35
13.6 EQUIPMENT ROOMS (INCLUDING COMPUTER/SERVER ROOMS) ..... 36
14. DORMITORIES
14.1 RESIDENTIAL ..... 37
14.2 SUPPORT SPACE ..... 38
14.3 RECREATIONAL AREA ..... 40
14.4 AUTHORITY ..... 40

## 15. EMPLOYEE QUARTERS

15.1 EMPLOYEE QUARTERS ..... 41
16. SITE
16.1 SITE ..... 43
ATTACHMENT 1: EXAMPLES - REPLACEMENT SCHOOLS ..... 44

## Chapter 1. General

Indian Affairs is responsible for providing facilities to support educational programs for eligible Indian School Equalization Program (ISEP) students. The following criteria are intended to provide guidance for use in the planning phase of replacement school construction, renovation of existing schools, and evaluation of the adequacy of existing school facilities.

## 1. Purpose

A. The purpose of developing the Educational Space Criteria is to provide a standard method of evaluating space planning criteria for Bureau school facilities. The overall goal is to incorporate core instructional requirements with functional space needs and develop space standards for these needs that utilize existing national and state guidance to ensure that every Bureau school has enough space to effectively provide core programs based on each school's enrollment for each grade.

These space criteria have been adjusted to address the reality of student population ranges that exist in Bureau schools. The desired outcome is a reliable and practical methodology for translating programmatic requirements into actual space requirements. This handbook provides a formalized methodology for Bureau-funded schools to establish minimum requirements for new construction and provide an evaluation methodology to determine modifications and upgrades to existing schools required to meet core education functional requirements.
B. This release supersedes any criteria used or previously issued in conjunction with Bureau education facilities, with exception given to provisions contained in this supplement that are inconsistent with the rules and regulations contained in Title 25 of the Code of Federal Regulations (CFR), Subchapter E when inconsistent, the provision of the rules and regulations contained in Subchapter E will take precedence.
C. State and regional education accreditation association space requirements applicable in the particular state or region where the school is located may be used instead of, but not in combination with, these criteria. Before any additional program requirements will be applied, they must be defined in equal or greater detail than the criteria presented in this handbook and must be approved by the Bureau of Indian Education (BIE).

## Chapter 2. Criteria Handbook Application

## 2. Criteria Handbook Application

2.1 Application. The space criteria contained in this handbook have been compiled to assist the Bureau with two planning aspects: (1) to provide guidance for the design and construction of replacement schools and (2) to assess existing Bureau schools to determine if the space utilized for education is functionally adequate to conduct the Bureau's required programs. This section describes in detail both planning methods.
2.2 Replacement School Space Planning. The criteria contained in this handbook must be followed during the planning and design phases of replacement school construction to ensure that the Bureau provides schools that are educationally adequate. Five steps must be followed when using these criteria for construction planning: (1) obtain certified ISEP enrollment data, (2) reconcile fractional enrollment, (3) apply criteria to determine net square footage, (4) identify eligible non-core programs, and (5) convert net square footage to gross square footage. (A non-core program is any program not specifically mentioned in this handbook.) Each step is described below.

## A. Step 1. Obtain Certified ISEP Enrollment Data

Accurate enrollment estimates are the cornerstone of the Bureau's education space planning program. If enrollment is overstated, the Bureau will incur unnecessary construction, operation and maintenance costs. Conversely, if enrollment is understated, classrooms will become overcrowded and student needs will not be met. Therefore, the analysis of the student design capacities must be based on accurate enrollment projections to optimize the Bureau's education programs while providing federal funding stewardship.

Using the most recent policy, the candidate school must work closely with the BIE to determine the enrollment projection.
B. Step 2. Apply Criteria to Determine Net Square Footage

After the enrollment figures are analyzed, space criteria will be utilized to determine the facility space allocations for the core programs.

## C. Step 3. Identify and Approve Eligible Non-Core Programs

These criteria address only core programs for the Bureau; however, many schools conduct programs the Bureau does not recognize as core. A non-core program is any program not specifically mentioned in this handbook; i.e., Gifted and Talented,

Advanced Reading and Math, Tribal Specific Cultural Classes, NASA lab, and equestrian.

When a non-core program is requested, the planner will recommend the amount of space needed to accommodate the non-core program. The Director, BIE approves non-core programs and final determination of space allocation for non-core programs will be a joint concurrence of the Director, BIE and Director, OFPSM. When concurrence cannot be achieved, the Assistant Secretary, Indian Affairs will make the final determination.

## D. Step 4. Convert Net-to-Gross

The maximum space allowances identified in this handbook for specific programs are specified in terms of net square footage. Additional square footage will be added to the total net square footage to provide for circulation and related non-specific program spaces, including mechanical equipment rooms, utility chases, student and public restrooms, corridors, stairwells, ramps, and wall thickness. The total gross square footage for an education facility equals the total net square footage plus circulation allowances and related non-specific program space. A detailed description of the net-to gross conversion is included in Section 3 of this handbook.
2.3 Existing School - Adequacy Analysis. In addition to construction planning, this handbook should be used to assess existing school facilities by comparing the actual space to the criteria for each program. There are four steps that should be followed when using this handbook for adequacy analysis: (1) obtain certified ISEP enrollment data, (2) apply criteria to determine net square footage, (3) identify and quantify actual programmatic space, and (4) analyze the data. These steps are described below:
A. Step 1. Obtain Certified ISEP Enrollment Data

Using the most recent policy, the candidate school must work closely with the BIE to determine the projected enrollment for the existing school.
B. Step 2. Apply Criteria to Determine Net Square Footage

Once the certified ISEP enrollment data is obtained, the criteria will be analyzed to determine space requirements for the core programs.
C. Step 3. Identify and Quantify Actual Programmatic Space

To begin identifying and quantifying actual programmatic space, a floor plan of the education facility should be obtained or developed. With this floor plan in hand, the
architects and engineers involved should tour the school with the principal or some other qualified individual who is familiar with the facility and the programs taking place therein. Every space should be labeled with a programmatic code and the square footage should be quantified and verified. The level of detail should be consistent with that found in the criteria.

## Chapter 3. Gross Square Footage

## 3. Gross Square Footage

### 3.1 Circulation and Non-specific Program Spaces.

A. The maximum space allowances identified in this handbook for specific programs are specified in terms of net square footage. Additional square footage will be added to the total net square footage to provide for circulation and related non-specific program spaces including mechanical equipment rooms, utility chases, student and public restrooms, corridors, lobbies, vestibules, stairwells, ramps, elevator shafts, and wall thickness.
B. The total gross square footage for an educational facility is calculated as the total net square footage plus circulation allowances and related non-specific program space. Gross square footage is calculated utilizing grade level, programs, and student populations as described in this handbook.

### 3.2 Determining Gross Square Footage Using the Planning Method.

A. The Planning Method utilizes the criteria in this handbook to calculate the net square footage. From this calculation, additional square footage is added to provide for circulation and related non-specific program spaces such as mechanical equipment rooms, utility chases, student and public restrooms, corridors, lobbies, vestibules, stairwells, ramps, elevator shafts, and wall thickness.
B. Some schools will include square footage requirements for non-core programs that have been approved by the Director of BIE. The space for these non-core programs will be added to the net square footage of all the other programs to determine the total net square footage for the school facility.
C. If an individual program requires circulation space within its boundaries, this circulation space will be included in the net square footage allowances for that program. For example, if the criteria define a high school gym as a 50 x $84^{\prime}$ basketball court with 10 ' setbacks on each side and on each end, the setbacks will be used for circulation. Therefore, the program requires 7,280 net square feet ( 70 x 104 ') to function properly. The net square footage of this program will be added to net square footage of all the other programs to determine the total net square footage for the school facility.
D. After the programmatic space has been determined and based on the total net square footage, various factors will be applied to calculate the amount of space needed
throughout the school for circulation and for non-specific programs such as mechanical equipment areas, restrooms, passageways, and wall thickness.

1) Passageways (13\%). To calculate the amount of allowable space for passageways, multiply the total net square footage of the school facility by a factor of 13 percent.

Passageways include such areas as corridors, lobbies, vestibules, stairwells, and interior ramps.

Warm climate locations are encouraged to considering exterior walkways and passages that do not count against your gross square footage allocation.
2) Mechanical/Electrical Equipment Areas (2\%). To calculate the amount of allowable space for mechanical/electrical equipment areas, multiply the total net square footage of the school facility by a factor of 2 percent.
Mechanical/electrical equipment areas include mechanical equipment rooms, electrical closets, computer server closets, elevator shafts, and utility chases.

Cold climate locations will be allowed to increase this area by $1 \%$ with the final recommendation being made by DFMC to BIE and OFPSM for approval. Warm climate locations are encouraged to considering exterior walkways and passages that do not count against your gross square footage allocation.
3) Restrooms (2\%). Program-specific restrooms such as those used for the health unit, physical education, kindergarten and first grade classes will be included in the total net square footage of the school facility. To calculate the amount of allowable space for restrooms, multiply the total net square footage of the school facility by a factor of 2 percent. Restrooms include general-use public and student facilities.
4) Wall Thickness (8\%). To calculate the amount of allowable space for wall thickness, multiply the total net square footage of the school facility by a factor of 8 percent. Wall thickness includes the floor plan area occupied by interior and exterior walls, doors and windows.
E. The following brief example describes the process of determining the gross square footage using the Planning Method.

Example: The Bureau is considering the construction of a replacement school to accommodate an approved Family and Child Education (FACE) program for grades K-5.

1) The enrollment for each grade is as follows:

| FACE Children | 20 Students |
| :--- | :--- |
| Kindergarten | 20 Students |
| First Grade | 22 Students |
| Second Grade | 22 Students |
| Third Grade | 22 Students |
| Fourth Grade | 25 Students |
| Fifth Grade | 25 Students |
| Total Enrollment | $\mathbf{1 5 6}$ Students |

2) To determine the total net square footage for the proposed school, the enrollment numbers must be applied to the space standards. The resulting space allowances are as follows:

| Interdisciplinary Classrooms | $6,390 \mathrm{SF}$ |
| :--- | ---: |
| Dedicated Classrooms | $2,378 \mathrm{SF}$ |
| FACE | $2,740 \mathrm{SF}$ |
| Special Education | $3,580 \mathrm{SF}$ |
| Administration | $1,690 \mathrm{SF}$ |
| Library | $1,470 \mathrm{SF}$ |
| Physical Education | $5,660 \mathrm{SF}$ |
| Food Services / Dining | $2,938 \mathrm{SF}$ |
| Support Services | $\mathbf{1 , 3 5 0 \mathrm { SF }}$ |
| Total Net Square footage | $\mathbf{2 8 , 1 9 6 ~ S F}$ |

3) To calculate the circulation and non-specific program space, the total net square footage is multiplied by each of the corresponding factors, as follows:

| Passageways (13\% of 28,196 SF) | $3,665 \mathrm{SF}$ |
| :--- | ---: |
| Mechanical/Elect Equipment Areas (2\% of 28,196 SF) | 564 SF |
| Restrooms (2\% of 28,196 SF) | 564 SF |
| Wall Thickness (8\% of 28,196 SF) | $2,255 \mathrm{SF}$ |
| Total Circulation/Non-specific Program Space | $\mathbf{7 , 0 4 8} \mathbf{~ S F}$ |

4) The total allowable gross square footage for the proposed school facility is calculated by adding the total net square footage $(28,196 \mathrm{SF})$ to the circulation and non-specific program space $(7,049 \mathrm{SF})$ to arrive at the total allowable gross square footage of 35,245 .

## Chapter 4. Interdisciplinary/Standard Elementary, Middle and High School Classrooms

## 4. Interdisciplinary/Standard Elementary, Middle and High School Classrooms

4.1 School Grade Levels. Elementary and/or Middle Schools that have grades Kindergarten through 8 , or any combination of these grades are considered day or boarding schools. This section also applies to day or boarding schools that include grade 9 , but do not include other high school grades. High schools are day or boarding schools that include grades 9 through 12, or any combination of these grades.
4.2 Classrooms. The following are maximum space allowances for elementary, middle and high school classrooms in which non-amenity specific courses including English, Math, and Social Studies are taught. Non-amenity specific courses are those in which the curriculum does not require any special equipment or classroom features.
A. Maximum space allowance For Elementary, Middle and High School Classrooms are as follows:

| Classroom <br> Grade | Maximum <br> Number <br> of Students | Square Feet <br> per Student | Standard Size in <br> Square Feet |
| :---: | :---: | :---: | :---: |
| Kindergarten | 20 | 60 | 1200 |
| 1 | 22 | 40 | 880 |
| 2 | 22 | 40 | 880 |
| 3 | 22 | 40 | 880 |
| 4 | 25 | 35 | 875 |
| 5 | 25 | 35 | 875 |
| 6 | 25 | 35 | 875 |
| 7 | 25 | 35 | 875 |
| 9 | 25 | 35 | 875 |
| 10 | 25 | 875 |  |
| 9 |  |  | 875 |


| 11 | 25 | 35 | 875 |
| :---: | :---: | :---: | :---: |
| 12 | 25 | 35 | 875 |

B. In addition to the space allocations for standard instructional space in 4.2 A , storage areas, including closets and cabinets, of 80 square feet of space will be provided in each interdisciplinary classroom.
C. A separate handicapped-accessible male and female restroom with toilet and sink of approximately 80 square feet of space will be provided for kindergarten and first grade classrooms only. To the extent possible, these restrooms will be located between kindergarten and first grade classrooms.
D. Multi-grade classroom space, or classroom space designed to accommodate multiple classes, will be based on the standard size of the lower grade, not to exceed 880 SF .

## Chapter 5. Dedicated/Specialized Elementary, Middle and High School Classrooms

## 5. Dedicated/Specialized Elementary, Middle and High School Classrooms

5.1 School Grade Levels. Elementary and/or middle schools are considered day or boarding schools that have grades K-8, or any combination of these grades. This section also applies to day or boarding schools that include grade 9 , but do not include other high school grades. High schools are day or boarding schools that include grades 9-12 or any combination of these grades.
5.2 Computer Labs. All schools, regardless of grade level or enrollment, will provide one computer lab for grade levels K-5, 6-8 and 9 thru 12 to accommodate a maximum of 24 students at 37 square feet per student for a total of 888 square feet.
A. In addition to the space allocations for instructional space, storage areas to include closets and cabinets of 120 square feet of space will be provided in each classroom.
B. An additional computer lab may be allowed for mandated testing on a case by case basis.

### 5.3 Science Laboratories.

A. For grades 7-8, regardless of enrollment, provide at least one general lab to accommodate a maximum of 24 students at 60 square feet per student for a total of 1440 square feet.
B. Specialized labs will be provided for approved programs. For grades 9-12, a determination will be made by the BIE based on approved existing curriculum, staffing and funding, the type and number of the labs provided (general science, earth science, physical science, chemistry, physics, biology) At a minimum, one multipurpose lab will be provided to accommodate a maximum of 24 students at 60 square feet per student for a total of 1440 square feet.
C. For schools that contain both middle school and high school grades, a determination will be made by the BIE based on approved existing curriculum, staffing and funding, whether separate science laboratories will be allowed for both groups. At a minimum, one multi-purpose lab will be provided to accommodate both groups, with a maximum of 24 students at 60 square feet per student for a total of 1440 square feet.
D. In addition to the space allocations for instructional space and storage areas to include closets and cabinets, 120 square feet of space will be provided in each Science Lab classroom.
E. For each Science Lab classroom, teacher preparation space is included in the instructional space.

### 5.4 Home Economics/ Life Skills.

A. A Home Economics/ Life Skills classroom will only be provided for middle schools with approved, existing BIE curriculum, staffing and funding. The Home Economics classroom will accommodate a maximum of 16 students at 60 square feet per student for a total of 960 square feet. Additional storage space will not exceed 200 square feet.
B. Home Economics/ Life Skills will be taught in one space for high schools with approved, existing BIE curriculum, staffing and funding and an enrollment in grades 9 through 12 of less than 300 students. The classroom will accommodate a maximum of 16 students at 60 square feet per student for a total of 960 square feet. Additional storage space will not exceed 200 square feet.
C. For high schools with approved, existing BIE curriculum, staffing and funding and an enrollment in grades 9 through 12 of more than 300 students, clothing design and food preparation will be taught in separate spaces.

1) Clothing Design. The maximum space allowance for a Clothing Design classroom to accommodate a maximum of 16 students at 65 square feet per student is 1040 square feet. Additional storage space will not exceed 200 square feet.
2) Food Preparation and Nutrition. The maximum space allowance for a Food Preparation and Nutrition classroom to accommodate a maximum of 16 students at additional storage space will not exceed 200 square feet.

### 5.5 Practical and Fine Arts for Elementary and Middle Schools.

A. For elementary and middle schools with an enrollment of less than 300 students, only one classroom will be provided for Practical and Fine Arts. This classroom size should be large enough to accommodate the class size for grades 4 through 8 , if present at the school ( 1,250 square feet at 50 square feet per student for a maximum of 25 students). If only grades 1 through 3 are present, the classroom must accommodate a maximum of 22 students at 50 square feet per student for a total of 1,100 square feet, as per 25 CFR Part 36.11. Additional storage space will not exceed 120 square feet.
B. For elementary/middle schools with an enrollment for grades 4 through 8 of more than 300 students, an additional/separate classroom will be provided for music appreciation, choral, and band. The maximum space allowance to accommodate a
maximum of 25 students at 40 square feet per student is 1,000 square feet. An additional 120 square feet for instrument and music storage will also be provided.
C. For schools containing both high school grades and middle/elementary school grades, the Director of BIE will determine whether or not the additional space for practical arts will be allowed in the lower grades, based on approved existing curriculum, staffing and funding. At a minimum, the criteria in Section 5.6 - Practical Arts for High Schools and Section 5.7 - Fine Arts for High Schools - should be followed.

### 5.6 Practical Arts for High Schools.

A. At a minimum, a classroom and general storage room will be provided for Practical Arts for high schools. The minimum classroom and general storage requirements for high schools are as follows:

1) Classroom. The maximum space allowance to accommodate a maximum of 25 students at 60 square feet per student is 1,500 square feet.
2) General Storage. The maximum space allowance is 150 square feet.
B. For a high school enrollment of more than 300 students, a determination will be made by the BIE based on approved existing curriculum, staffing and funding, which of the following, or combination of the following, will be provided:
3) Flammable Chemicals Storage. The appropriate square footage for a fireproof storage cabinet will be provided in accordance with NFPA 30, Section 4-3.
4) Project Storage. The maximum space allowance is 200 square feet.
5) Kiln Room. It is permissible to use a self-contained kiln in the classroom; otherwise, a fire-rated room of no less than 100 square feet should be provided.
6) Green Ware (Pottery) Room. The maximum space allowance is 150 square feet.
5.7 Fine Arts for High Schools.
A. A Music/Choral classroom and instrument storage space will be provided for high schools, as follows:
7) Music/Choral Classroom. The maximum space allowance for a choral room is 900 square feet at 30 square feet per student for up to 30 students plus 25 square feet for each additional student.
8) Instrument Storage. The maximum space allowance is 150 square feet or 5 square feet per program participant, whichever is greater.
B. For an enrollment of more than 300 students, a determination will be made by the BIE based on approved existing curriculum, staffing, and funding which of the following, or combination of the following, will be provided:
9) Band Room and/or Choral Room. The maximum space allowance for a band room or a band and choral room to accommodate up to 30 students at 40 square feet per student is 1,200 square feet plus 30 square feet for each additional student.
10) Uniform and Music Storage. The maximum space allowance is 150 square feet or 3 square feet per student, whichever is greater.
11) Instrument Repair Area. The maximum space allowance is 80 square feet.
12) Practice Rooms. The maximum space allowance is 75 square feet per room for a maximum of two rooms.
13) Instructor's Office and Library. The maximum space allowance is 250 square feet.

### 5.8 Career Technical Education (CTE).

A. Career Technical Education (CTE) will only be provided for middle schools with approved, existing BIE curriculum, staffing and funding. The approved middle schools will provide a classroom to accommodate a maximum of 16 students at 120 square feet per student for a total of 1,920 square feet. Additional material storage space of not to exceed 600 square feet will be provided. Tool and project storage of 200 square feet, and ventilated paint storage as per Uniform Building Code requirements will be provided.
B. At a minimum for high schools, provide one multi-use vocational program space to accommodate a maximum of 16 students at 120 square feet per student not to exceed 1,920 square feet. Additional material storage space will be provided, not to exceed 600 square feet. Tool and project storage of not to exceed 200 square feet, and ventilated paint storage as per Uniform Building Code requirements will be provided. A determination will be made by the Director of BIE based on curriculum, staffing and funding which of the following, or combination of the following, will be provided. Specialized rooms based on approved programs will be provided.
C. For Industrial Arts, Electrical, Metal, Wood, and Auto Shops only, the following maximum space allowances apply.

1) Computer Aided Design (CAD). The maximum space allowance is 888 square feet at 37 square feet per student for a maximum of 24 students.
2) Agriculture/Economic Development. The maximum space allowance is 1,000 square feet at 40 square feet per student for a maximum of 25 students. In addition, material storage space of 200 square feet will be provided.
3) Business Program. The maximum space allowance is 925 square feet at 37 square feet per student for a maximum of 25 students. At a minimum, the number of receptacles should match student population to accommodate use of computers in the classroom. An existing interdisciplinary classroom of standard size should be utilized for accounting, finance, and additional business programs.
4) Driver's Education. When provided within BIE-approved curriculum, an existing standard size interdisciplinary classroom will be utilized.
5.9 Cultural Studies/Programs.

Cultural Studies/Programs will utilize either a standard interdisciplinary classroom or Practical and Fine Arts classrooms as described in Sections 5.5 and 5.6.

### 5.10 (STEM) Science, Technology, Engineering and Math Program.

Space will be provided for approved programs. A determination will be made by the BIE based on approved existing curriculum, staffing and funding. At a minimum, one multipurpose classroom/lab will be provided with a maximum of 24 students at 60 square feet per student for a total of 1,440 square feet.
A. In addition to the space allocations for instructional space and storage areas to include closets and cabinets, 120 square feet of space will be provided.
B. Teacher preparation space is included in the instructional space.

## Chapter 6. Special Programs

## 6. Special Programs

### 6.1 Family and Child Education (FACE).

A. Under the FACE program, the size of classrooms will be determined as follows:

1) Child Classroom. To accommodate 3- and 4-year old children, classrooms will accommodate a maximum of 20 students at 60 square feet per student for a total of 1,200 square feet. This space will include both wet and dry areas.
2) Adult Classroom. To accommodate adults under the program, classrooms will accommodate a maximum of 15 students at 60 square feet per student for a total of 900 square feet.
3) Restroom. A separate handicapped accessible unisex restroom with toilet and sink of 100 square feet will be included.
4) Kitchenette. The maximum space allowance is 80 square feet.
5) Storage Space. For education program activities, the maximum space allowance is 100 square feet.
6) Adjacent Office Space. The maximum space allowance is 360 square feet to include files/record storage and counseling area.
B. Outdoor Play Area. For new construction, provide a separate enclosed/fenced area of 1500 square feet located adjacent to classroom space. Playground design should meet the ASTM Standard F 1487-98 and the handbook for Public Playground Safety published by the U.S. Consumer Product Safety Commission.
6.2 Special Education. In accordance with the Title I Amendments to the Individuals with Disabilities Education Act, the programs and size of classrooms will be determined as follows:
A. Therapy Classroom. The maximum space allowance is 880 square feet, a standard interdisciplinary classroom size, for a maximum of 12 students.
7) A separate handicapped accessible unisex restroom of 100 square feet, equipped with lifts or shower hardware will be provided.
8) A kitchenette not to exceed 80 square feet will be included in the classroom square footage.
9) Storage Space of 100 square feet will be provided for Therapy Classrooms.
B. Resource Classroom. A standard interdisciplinary classroom will be provided as needed for the grade level being educated in the space. The number of Resource Classrooms per school is dependent on enrollment and grade level.
10) Grade Level. Separate Resource classrooms must be provided for grades K-5, 6-8 and 9-12. For example, if a planner is designing a $\mathrm{K}-12$ school with special education needs for all grade levels, the planner would include three resource classrooms (one for K-5, one for 6-8 and one for 9-12).
11) Enrollment. Additional Resource classrooms must be provided for every 100 students within a grade level category (K-5, 6-8, 9-12). Using the previous example, the student enrollment for $\mathrm{K}-5$ is $87,6-8$ is 157 and $9-12$ is 68 . For this example, one Resource classroom will be provided for K-5, two Resource classrooms will be provided for 6-8 and one Resource classroom will be provided for 9-12.
C. Office/Testing Room. The maximum space allowance for a room used for hearing tests, learning disability tests and assessment tests is 200 square feet.
D. Special Education Conference Room. The maximum space allowance for a room used for IEP (Individualized Education Program) and Evaluations is 200 square feet.
E. Special Education file storage room. The maximum space allowance for student file storage is 300 sf .

### 6.3 Gifted and Talented.

Classrooms. When there is a demonstrated need to accommodate a Gifted and Talented program, a determination will be made by the Director of BIE based on approved existing curriculum, staffing and funding whether to provide special classroom(s) based on grade level and student population of the school. Upon approval, interdisciplinary classroom(s) of standard size will be provided.

## Chapter 7. Administration

## 7. Administration

7.1 Administration Space. The maximum space allowance for Administration includes space for the principal's office, other offices, reception area, vault, school supplies, copy room, storage, bank, health unit, faculty lounge/faculty workroom, and conference room.
A. Maximum space allowance for Administration.

|  | Total student design capacity based on enrollment projections |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Space | <100 | 100-199 | 200-399 | 400+ |
| Principal's Office | 150 SF | 150 SF | 150 SF | 150 SF |
| Assistant Principal's Office* | NA | NA | 150 SF | 150 SF |
| Other Offices | 120 SF | 120 SF | 240 SF | 360 SF |
| Counseling | 120 SF | 120 SF | 150 SF | 300 SF |
| Reception/Secretary | 200 SF | 250 SF | 300 SF | 400 SF |
| Faculty Area** | 400 SF | 500 SF | 700 SF | 900 SF |
| Nurse's Office | 150 SF | 150 SF | 150 SF | 150 SF |
| Nurse's Office Restroom | 50 SF | 50 SF | 50 SF | 50 SF |
| Nurse's Office Cot Area | 75 SF | 75SF | 75SF | 75SF |
| Nurses Office Storage/Medicine Storage | 30SF | 30SF | 30SF | 30SF |
| Nursing Mothers Room to serve school staff | 30SF | 30SF | 30SF | 30SF |
| Nurse's Office Washer/Dryer Room | 30SF | 30SF | 30SF | 30SF |
| Vault/Cash/Record Storage | 100 SF | 100 SF | 125 SF | 150 SF |


| Copy/Mail/ School Supplies <br> Storage Room | 150 SF | 150 SF | 150 SF | 150 SF |
| :--- | :---: | :---: | :---: | :---: |
| Conference Room | 300 SF | 300 SF | 300 SF | 300 SF |
| Security Office | 120 SF | 120 SF | 120 SF | 120 SF |

* Small schools may not have an assistant principal.
** The Faculty area includes faculty lounge, workroom and faculty restrooms.
B. School Entry Lobby. A maximum of 300 square feet of space will be provided. For locations in cold climate area's 500 square feet of space will be provided.
C. Maximum space allowance for Grant School Administrative Offices.

|  | Total design capacity for Grant School <br> Administrative Offices |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| Space | $<\mathbf{1 0 0}$ | $\mathbf{1 0 0 - 1 9 9}$ | $\mathbf{2 0 0 - 3 9 9}$ | $\mathbf{4 0 0 +}$ |
| Executive Director's Office | 200 SF | 200 SF | 200 SF | 200 SF |
| Business Manager's Office* | 150 SF | 150 SF | 150 SF | 150 SF |
| Procurement Staff Office | 120 SF | 120 SF | 120 SF | 120 SF |
| Administrative Assistant <br> Office | 120 SF | 120 SF | 120 SF | 120 SF |
| Human Resources | 120 SF | 120 SF | 120 SF | 120 SF |

* Grant School Administrative Offices will be provided upon the Grantee's documentation showing these employees are currently on staff. The number of offices provided will be determined by current staff to a maximum number of offices of four.


## Chapter 8. Media Center (Library)

## 8. Media Center (Library)

### 8.1 Maximum space allowance for Media Center (Library).

|  | Total student design capacity based on enrollment projections |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Usage | 25-100 | $\begin{array}{r} \hline 101- \\ 200 \end{array}$ | 201-400 | 400+ |
| Reading/Browsing/Stack (K-8)* | 800 SF | 800 SF | 800 SF, <br> plus 30 SF <br> per student <br> of $15 \%$ of <br> the total <br> student <br> design <br> capacity <br> over 200 | 1,700 <br> SF, <br> plus 30 <br> SF per <br> student <br> of $15 \%$ <br> of the <br> total <br> student <br> design <br> capacity <br> over 400 |
| Reading/Browsing/Stack (9-12)* | 1,200 SF | $\begin{gathered} 1,200 \\ \mathrm{SF} \end{gathered}$ | 1200 SF, <br> plus 30 SF <br> per student <br> of $15 \%$ of <br> the total <br> student <br> design <br> capacity <br> over 200 | 2,100 <br> SF, <br> plus 30 <br> SF <br> per <br> student of <br> $15 \%$ of <br> the total <br> student <br> design <br> capacity <br> over 400 |
| Professional Publications | 75 SF | 75 SF | 75 SF | 75 SF |
| Librarian Office | 120 SF | 120 SF | 120 SF | 120 SF |
| Audio/Visual | 100 SF | 175 SF | 200 SF | 200 SF |
| Storage/Workroom (K-8) | 100 SF | 200 SF | 300 SF | 350 SF |


| Storage/Workroom (9-12) | 100 SF | 100 SF | 180 SF | 200 SF |
| :--- | :---: | :---: | :---: | :---: |
| Circulation/Checkout | 100 SF | 100 SF | 100 SF | 100 SF |
| Student Project Room (K- <br> $8)^{* *}$ | 300 | 300 | 500 SF | 500 SF |
| Student Project Room (9- <br> $12)^{* *}$ | 400 | 400 | 880 SF | 880 SF |
| Conference Room | NA | NA | 250 SF | 300 SF |

* For a school with grades K-9, space will be based on the standard size of the lower grade. For a school with grades K-10/11/12, the grade-level populations will be separated into $K-8$ and 9-12 to calculate the space for Reading/Browsing/Stack.

The space needed for Reading/Browsing/Stack will be calculated for each group of grade levels based on those populations and added for a total square footage.

All other areas will be calculated based on the total enrollment.
** This space is to be utilized as a research room equipped with computers for schools with a Distance Learning Program.

## Chapter 9. Physical Education - Indoor

## 9. Physical Education - Indoor

### 9.1 Gymnasiums.

A. Mini-Gymnasium. For an elementary school with a design capacity of 200 or more students or middle school with a design capacity of 200 or less students, a 42' x 74' standard basketball court will be provided with 5 -foot setbacks on each side and 8foot set-backs on each end. Total square footage for the multi-purpose/minigymnasium is 4,680 (52' x $90^{\prime}$ ), excluding bleacher seating. The Mini-Gymnasium will NOT be used as the Dining Room.

## B. Gymnasium.

1) For an elementary or middle school that includes grade levels 7 through 9 with a design capacity of 200 or more students, a gymnasium will be provided with a $42^{\prime}$ x 74 ' standard basketball court, 5 -foot setbacks on each side, and an 8 -foot setback on each end. Total square footage is 4,680 ( $52^{\prime} \times \mathrm{x} 90^{\prime}$ ) excluding bleacher seating space. A larger size standard basketball court will not be provided even if there is grade 9 at the school.
2) For high schools, provide a full size gymnasium with a 50 ' $x 84^{\prime}$ American standard basketball court and 10 feet setbacks on each side and on each end, with a total square footage of 7,280 ( 70 ' x 104'), excluding bleacher seating space. A multi-purpose room or multi-purpose/mini-gymnasium need not be provided in addition to the gymnasium, except as provided under section 9.3.
9.2 Bleacher Seating. Bleacher seating space for $200 \%$ of the approved enrollment projection will be provided at 3 square feet per student. This square footage is in addition to the gym floor square footage. A ten-foot setback should be reevaluated for size of bleachers so that minimum aisle space remains after bleachers are extended as per Uniform Building and Accessibility Codes. ADA and UFAS codes should be referenced for seating capacity. Seating must be provided in the bleacher area to comply with ADA requirements.
9.3 Auxiliary Physical Education Room. For schools with a design capacity of more than 200 students in grades 9 through 12, an auxiliary physical education room may be provided with a maximum space allowance of 1,700 square feet for wrestling, weight training, etc.
9.4 Shower/Dressing Area. In schools with grades ranging up to 6 , no shower/ dressing areas will be provided. Schools that include grade levels 7 through 9 and high schools will provide two handicapped accessible shower/dressing areas, one for males and one for females. The maximum space allowance of 300 square feet each will be provided, with the number of showerheads to be determined by the Uniform Building Code.
9.5 Locker Rooms. In schools with grades ranging up to 6 , no locker areas will be provided. Schools that include grade levels 7 through 9 and high schools will provide locker rooms as follows:
A. Two handicapped accessible locker rooms will be provided with a maximum space allowance of 500 square feet each - one for males, one for females.
B. One small storage locker per student will be provided based on the total student design capacity based on enrollment projections.
C. Dressing lockers to be determined by the maximum number of students in a physical education class-not to exceed 30 lockers per dressing room- will be provided.
D. For schools with a design capacity of more than 400 students, an additional 30 dressing lockers each in male and in female locker rooms will be provided for visiting teams. Allow 100 square feet for the additional dressing lockers.
9.6 Restrooms. The minimum required toilets with privacy stalls and sinks per Uniform Building and Handicapped Codes will be provided in female and male shower/dressing areas or locker rooms. In addition, minimum required urinals will be provided per Uniform Building and Accessibility Codes in male shower/dressing or locker room.
9.7 Physical Education Staff Offices. In schools with grades ranging up to 6, one office of the size specified below will be provided in the Multipurpose Room. In middle schools that include grade levels 7 through 9 and in high schools, two offices will be provided at 120 square feet each, plus 100 square feet for a handicapped accessible toilet, shower stall and sink for each office.
9.8 Permanent Stage. All schools will receive a permanent stage with storage, the total amount of the combined space must not exceed 750 sf . The school will configure the stage and storage area based on school need.
9.9 Storage. As required, provide for the following:
A. Physical education equipment. The maximum space allowance is as follows for each grade level:

- K-6: 300 square feet
- 7-8: 600 square feet
- 9-12: 1,000 square feet.
B. Team equipment and uniform storage. For high school, the maximum space allowance is 800 square feet.
9.10 Concession Area. Concession areas will not be provided to schools with a design capacity of less than 200 students, regardless of grade level.
A. In a combined elementary/middle school with a design capacity of 201-399 students, 120 square feet of space will be provided for a concession area with 75 square feet for storage.
B. In a combined elementary/middle school with a design capacity of more than 400 students, 200 square feet of space will be provided for a concession area with 100 square feet for storage.
C. In high schools with a design capacity of 201-399 students, 120 square feet of space will be provided for a concession area with 80 square feet for storage.
D. In high schools with a design capacity of more than 400 students, 200 square feet will be provided for a concession area with 120 square feet for storage.


### 9.11 Gymnasium Public Restroom.

800sf for Gymnasium will be allocated public restrooms. This space cannot be reallocated for any other purpose.

## Chapter 10. Physical Education - Outdoors

## 10. Physical Education - Outdoors

### 10.1 Play Area and Fields.

A. For an elementary school, a paved area of 60' x 100' ( 6,000 square feet) will be provided adjacent to the elementary and /or middle school as a ball court or multipurpose play area. Based on the total student design capacity based on enrollment projections of the school, provide other areas devoted to active play to include swings, slides or other play equipment will be provided. Playground design should meet the ASTM Standard F 1487-98 and the handbook for Public Playground Safety published by the U.S. Consumer Product Safety Commission.
B. For a middle school, a paved area of $80^{\prime} \mathrm{x} 120$ ( 9,600 square feet) will be provided adjacent to the school as a ball court or multi-purpose play area. Additional playing fields and an earthen track will be provided in accordance with the school's approved existing athletic program.

### 10.2 Football Field and Track.

A. For high schools with a design capacity of 100 students or less, a paved area of $80^{\prime} \mathrm{x}$ 120 ' (9,600 square feet) will be provided adjacent to the school as a ball court or multi-purpose area. Additional playing fields will be provided in accordance with the school's approved existing athletic program. Design and surfaces of athletic facilities will be provided based on state and local athletic governing requirements.
B. For high schools with a design capacity of 100 students or more, a paved area of 80 ' x 120 ' ( 9,600 square feet) will be provided adjacent to the school as a ball court or multi-purpose area and a football field surrounded by an oval track. Additional playing fields and ancillary facilities will be provided in accordance with the school's approved existing athletic program. Design and surfaces of athletic facilities will be provided based on state and local athletic governing requirements.

## Chapter 11. Dining Room and Kitchen Area

## 11. Dining Room and Kitchen Area

11.1 Dining Room. The Dining Room will NOT be in the mini-gymnasium or full size gymnasium.
A. For schools with a design capacity of 100 students or less, the minimum space allowance is 750 square feet.
B. For schools with a design capacity of more than 100 students, dining room seating will be provided for one-half the total student design capacity based on enrollment projections of the school.
C. The space allowance of 15 square feet per seat/student for one- half of the total student design capacity includes seating, table and circulation space, but excludes space for the serving line.
D. Chair/Table storage: The maximum space allowance is 250 square feet.
11.2 Kitchen Area. The maximum space allowance for a kitchen area includes space for food preparation, serving line(s), walk-in and reach-in refrigerator, walk-in and reach-in freezer, dry storage, dishwashing, can washing, office, employees' room and restrooms, receiving dock, and waste holding area.
A. Maximum space allowance for kitchen area is as follows:

| Meals Served Per Day | Square Footage |
| :---: | :---: |
| 100 or less | 856 |
| $101-250$ | 1261 |
| $251-500$ | 1518 |
| $501-750$ | 1938 |
| $751-1000$ | 2208 |
| $1001-1250$ | 2566 |
| $1251-1500$ | 2880 |
| $1501-1750$ | 3360 |
| $1751-2000$ | 3840 |


| 2001 or more | 4388 |
| :---: | :---: |

Source: Equipment Guide for On-Site School Kitchens, United States Department of Agriculture

## Chapter 12. Auxiliary Spaces

## 12. Auxiliary Spaces

12.1 Auditorium. An auditorium will not be provided for elementary and/or middle schools, even if the schools include grade level 9 . Only high schools with a grade level enrollment of 750 students or more in grades 9 through 12 are eligible for an auditorium. A final determination will be made by the Director of BIE based on approved existing curriculum, staffing and funding for the provision of an auditorium. The auditorium as well as the stage will be handicapped accessible. If an auditorium is provided, the following space allocations apply:
A. Auditorium. A maximum of 7 square feet per student of the total student design capacity based on enrollment projections will be provided to include seating and circulation space.
B. Stage. The maximum space allowance is a total of 3,000 square feet including onstage and off-stage area.
C. Scenery and Prop Storage. The maximum space allowance is 1000 square feet, and will only be provided if a permanent stage is also provided.
D. Multi-use Lobby Area. The maximum space allowance is 100 square feet or 2 square feet per seat, whichever is greater.
E. Movie Projection. Projection capabilities will only be provided at boarding schools. A maximum space allowance of no more than 100 square feet will be added for this capability.
12.2 Swimming Pools. Swimming pools will NOT be provided.

## Chapter 13. Support Services

## 13. Support Services

### 13.1 Bus Garages and/or Yards.

A. Bus shelter and/or yards will be provided to protect vehicles from inclement conditions and for security purposes. Each parking space should not exceed $120 \%$ of the actual size of each bus. The number of bus shelter spaces must not exceed $50 \%$ of the buses projected to be used based on the enrollment projection.

Bus yard surfaces must at a minimum be constructed out of compacted gravel.
B. Bus garage space for maintenance purposes will be limited to one stall and will only be provided if the school certifies that it performs its own bus maintenance. (Maintenance will include oil changes, tire rotation, lubrication, and tune ups.) The space provided will be as described in 13.3.
13.2 Bus Loading Area. The maximum space allowance is 20 feet for bus turning radius and 120 'L x $14^{\prime} \mathrm{H}$ x $8^{\prime} \mathrm{W}$ bus loading overhang. This shelter space square footage will not be included in the building gross square footage.
13.3 Facilities Maintenance Shop. Facilities maintenance shops will be provided to serve education facilities.
A. Facility Maintenance Office. The maximum space allowance is 150 square feet.
B. Facility Maintenance Shop. The maximum space allowances provided for each population level based on the total student design capacity is based on enrollment projections as follows:

1) For 100 or fewer students: 400 square feet.
2) For 100-199 students: 500 square feet.
3) For 200-399 students: 600 square feet.
4) For 400 or more students: 700 square feet.
C. Facilities Maintenance Faculty Lounge that include lockers. The Facilities

Maintenance Faculty Lounge will be sized as follows:

1) For 100 or fewer students: 150 square feet.
2) For $101-199$ students: 200 total square feet.
3) For 200-399 students: 250 square feet.
4) For 400 or more students: 300 square feet.
D. Facilities Maintenance Restrooms. The maximum space allowance is 200 square feet male/female.
E. Maintenance Equipment. The maximum space allowance is 250 square feet.
F. Maintenance Material Storage. For schools located less than 100 miles roundtrip from a town with a population of more than $25,000,200$ square feet of space will be provided for material storage. For schools located more than 100 miles round trip from a town with a population of more than $25,000,300$ square feet of space will be provided for material storage.

For schools that perform their own quarter's maintenance an additional 50 sf per 10 government furnished quarters with a maximum of 200 sf .
G. Chemical Storage. The maximum space allowance is 100 square feet.
13.4 Custodial Closets and Storage. The maximum space allowance is determined by student design capacity. Each space should include a mop sink, hot and cold water faucet, and mop hangers. The total space allocation per school facility is based on total design capacity, as follows:
A. For 100 or fewer students: 150 square feet.
B. For 101-199 students: 200 total square feet.
C. For 200-399 students: 250 square feet.
D. For 400 or more students: 300 square feet.
13.5 General Storage. The maximum space allowance is determined by student design capacity. This space is to be utilized for book and furniture storage for the entire school. The total space allocation per school facility is based on total design capacity, as follows:
13.6 Equipment Rooms (including Computer/Server Rooms). The square footage for equipment rooms and computer/server rooms is included in the net-to-gross conversions; see Section 3.2.

## Chapter 14. Dormitories

## 14. Dormitories

14.1 Residential Area. Space in dormitories will be allocated as shown:

## A. Sleeping Rooms.

1) For grades 1 through 8 , provide sleeping rooms at 40 to 60 square feet per student exclusive of furniture (wardrobe, desks, beds, etc.) and not to exceed a maximum of four students per room. An additional 35 square feet per student will be provided for furniture and storage space to include a wardrobe, bed and desk.
2) For grades 9 through 12 , provide sleeping rooms at 50 to 70 square feet per student exclusive of furniture (wardrobe, desks, beds, etc.) and not to exceed a maximum of four students per room. An additional 35 square feet per student will be provided for furniture and storage space to include a wardrobe, bed and desk.
B. Restrooms.
3) The current the Americans with Disabilities Accessibility Act Guidelines (ADAAG) and Uniform Building Code (UBC) should be applied as required for restrooms. Handicapped restrooms and dorm rooms must be provided at $10 \%$ of the dorm capacity.
4) Communal type facilities may be substituted when the total space will be equal to or less than the total space that would be provided under paragraph 14.1-B (1) above.
5) Where restrooms are provided between rooms, the following spaces will be allowed:
a) Two students per room - 120 square feet
b) Three students per room - 140 square feet
c) Four students per room - 160 square feet
C. Isolation Health Care Sleeping Room. Two rooms will be provided, one for males and one for females. Each room will contain two beds and a handicapped accessible
bathroom including toilet, tub/shower and sink. 300 square feet of space total for each room will be provided.
D. Counseling. 120 square feet of office space will be provided per office, as follows:
6) For grades $1-8$, one office for one counselor for up to 75 students.
7) For grades 1-8, two offices for two counselors for 75-300 students.
8) For grades 9-12, one office for one counselor for up to 100 students.
9) For grades 9-12, two offices for two counselors for 101-300 students.
E. Dorm Secretary Office. For dormitories with at least 150 students or more, one office of 120 square feet and fire rated record storage space of 75 square feet will be provided.
F. Intensive Residential Guidance (IRG) Counselor Offices. One counselor office for every 80 IRG students at 120 square feet per office will be provided. Space for secure file storage is included in the office space. This space will be provided only if the dorm has an IRG program.
G. Home Living Specialist Office. One office of 120 square feet will be provided.
H. Conference Room. In dormitories with more than 150 students a conference room of 250 square feet will be provided.
14.2 Support Space. Space for the following areas will be provided:
A. Living Room. For grades $\mathrm{K}-8$, the maximum space allowance is 8 square feet per student. For grades 9 through 12, the maximum space allowance is 10 square feet per student.
B. Activity Room. The maximum space allowance is 15 square feet per student where the minimum space provided is 1200 SF .
C. Practical Arts Room. A determination will be made by the Director of BIE based on approved existing staffing and funding whether this space will be provided. At a minimum, a room of 1250 square feet and general storage of 150 square feet will be provided.
D. Study Rooms. Study space for $1 / 3$ of the total student design capacity at 20 square feet per student will be provided. At a minimum, 250 square feet of space will be provided. The allocations will include space for computer stations, with the number of stations not to exceed $1 / 9$ of the total student design capacity.
E. Kitchen/Dining Area. A separate kitchen and dining facility will not be provided for dormitories, except for peripheral dormitories. (Dormitories must utilize the existing kitchen and dining facilities associated with the adjacent school campus.) Peripheral dormitories will be provided kitchen and dining space in accordance with Sections 11.1 and 11.2.
F. Storage. Provide storage space as follows:
10) Linen. The maximum space allowance is 2 square feet per student.
11) General. The maximum space allowance is 6 square feet per student.
12) Individual (Trunk/Luggage) Storage. The maximum space allowance is 5 square feet per student.
G. Laundry and Ironing Rooms. Thirty square feet per pair of washers and dryers will be provided, with one set for each 10 students of the total student design capacity based on enrollment projections. A double laundry sink and ironing area will be provided for every four sets of washers and dryers.
H. Custodial Space. Each custodial space should include a mop sink, hot and cold-water faucet, mop hangers and shelving for toilet supplies. The total space allocation per dormitory facility is based on total design capacity, as follows:
13) For 75 or fewer residents: 200 square feet
14) For 76-299 residents: 250 square feet
15) For 300 or more residents: 300 square feet.
I. Dormitory Entry Lobby. A maximum of 200 square feet will be provided.
J. Public Restrooms. Handicapped adult male and female restrooms will be provided at 125 square feet each.
K. Net-to-Gross Conversion. Net-to-Gross conversion is detailed under Section 3.2D.
14.3 Recreational Area. A paved play area of 60' x 100' (6,000 square feet) will be provided as a ball court or multi-purpose play area. Other areas devoted to active play to include swings, slides or other play equipment will be provided based on the total student design capacity based on enrollment projections of the dormitory. Playground design should meet the ASTM Standard F 1487-98 and the handbook for Public Playground Safety published by the U.S. Consumer Product Safety Commission.
14.4 Authority. In accordance with 25 CFR 36.75, Space and Privacy, "A dormitory shall be considered at capacity when the addition of one more student would put the school out of compliance with the space standard; and additional students shall not be admitted for residential purposes."

## Chapter 15. Employee Quarters

## 15. Employee Quarters

### 15.1 Employee Quarters.

A. Authority. OMB Circular A-45 Rental and Construction of Government Quarters; 400 Department Quarters Manual.
B. Policy. The cost to the Government of acquiring, constructing, operating, maintaining, managing and disposing of Government Furnished Quarters (GFQ) typically far exceeds the value of rental receipts collected over the useful life of the GFQ. Therefore, new or replacement GFQ will not be provided unless it has been determined by the appropriate program Assistant Secretary (or by the head of the Bureau or Region/Area Director if the authority has been re-delegated pursuant to 205 DM 10.1C) that the GFQ are essential to the accomplishment of the Bureau's mission and are energy efficient. The need to construct or acquire GFQ is limited to circumstances in which it is determined that the employees must live at the station or quarters installation in order to provide necessary service or protection, or that adequate housing is not available in the area.
C. Need. Determining educational quarters needs and developing the justification is the responsibility of the users through their respective Regional Office in accordance with 400 Departmental Manual (DM), OMB Circular A-45, 41 CFR 114-51, and 43 BIAM Supplement 2. The determination should be made prior to or during the early programming and planning stages in the new school construction project.
D. Housing Construction. New or replacement housing construction is feasible only in connection with School Replacement Projects. The following data is required to process requests for new or replacement quarters:

1) A Tribe or school board must provide an official resolution to support the request and need for employee housing.
2) A completed Housing Requirements Analysis (HRA) is required as prescribed in 400 Departmental Manual 4.1, 4.2, and 4.3. Include a copy of the program's staffing plan showing the staff position breakdown and identifying the essential or key employee positions that require housing. In addition, the HRA should include responses to the following questions:
a) How many of the staff can have their housing needs satisfied either in planned or in existing tribal housing units operated by a local housing authority?
b) How many of the staff are local hires and do not require Bureau housing?
c) How many efficiency apartments or 1-bedroom/2-bedrooms/3bedrooms are needed based on the number of essential employees and the size, normal composition, and trends of families to be housed?
3) A form DI-1871, Justification for New or Replacement Quarters, must be prepared for recommended and approving signatures. This form requires approval by the Assistant Secretary of Indian Affairs.
4) Final approval of the Form DI-1871 serves only to acknowledge need for new or replacement housing and does not extend to approval of construction funding unless funding had been identified in advance. Upon final approval, the requesting program or school may proceed with the budget request process, including construction planning with Facility Management.

## Chapter 16. Site

## 16. Site

16.1 Site.
A. The size of an educational facility site should be based on existing and projected enrollment. The following are the recommended ranges for site sizes:

| Educational Facility | Recommended Site Size |
| :--- | :--- |
| Elementary Schools (K-6) | 10 acres, more or less, plus <br> one acre for each 100 <br> students |
| Middle Schools (7-9) | 20 acres, more or less, plus <br> one acre for each 100 students |
| High Schools (9-12) | 30 acres, more or less, plus <br> one acre for each 100 students |

B. Provide an additional two acres for any needed facility management shop and two acres for a bus garage/yard.
C. If employee housing is on site, provide one acre each for two houses. This acreage includes space for access streets to the housing units.
D. For dormitories at an existing location, provide 3 acres for every 100 students to be housed.
E. If a sewer lagoon is provided with the project, it must be located at least one-quarter (1/4) mile from the nearest residence, school building or adjacent occupied building. The land area needed for the right-of-way ( 10 feet) and the lagoon must be provided.

## Attachment 1

## Example 1-Replacement K-8Elementary School

In this example, a fictitious elementary school has entered into the planning phase for the construction of a replacement facility. The steps outlined in Section 2.2 will be followed to determine the space for each individual program, as well as the overall size of the facility.

## Step 1. Determine Enrollment

The candidate school must work with the BIE to provide an enrollment plan for the replacement facility. The BIE will utilize the most recent directives to aid in the enrollment projection process. Ultimately, for replacement school construction the enrollment plan must specify the projected number of pupils within each approved grade level. For this example, the school has an approved FACE program and following enrollment projections have been submitted:

| Enrollment Projection |  |
| :--- | :---: |
| FACE | 0 |
| Kindergarten | 43 |
| First | 32 |
| Second | 16 |
| Third | 17 |
| Fourth | 10 |
| Fifth | 17 |
| Sixth | 25 |
| Seventh | 17 |
| Eighth | 29 |
| Total: |  |

## Step 2. Reconcile Fractional Enrollment

The criteria in this handbook specify the maximum number of students per classroom for each grade level. Unfortunately, in most cases the number of students within a grade level will rarely be equal to the criteria. Each grade level with fractional enrollment will receive a full-size classroom to accommodate grades with fractional enrollment.

## Step 2.a. Divide Proposed Enrollment Estimates by the Criteria.

For each grade level, divide the proposed enrollment estimate by the maximum allowable enrollment per classroom for the corresponding grade. For example, the proposed enrollment for

## Attachment 1 (continued)

kindergarten is 43 students. The criteria state that no more than twenty kindergarten students will be taught in any one class. So, by dividing 43 by 20, the result is 2.15 . Therefore, three full-size classrooms will be required for kindergarten.

## Attachment 1 (continued)

## Example 1-Replacement K-8Elementary School

## Step 2.b. Calculate the Number of Full-size Classrooms.

At this point, the planner should look at classrooms in terms of full-size classrooms.
Regardless of the enrollment, there should be at least one full-size classroom per grade level. In the event of fractional enrollment, a full-size classroom is warranted.

To continue the example, the kindergarten grade ( 44 students / maximum 20 students per class) would warrant two full-size classrooms. Following the same logic for the remaining grade levels, the following data would be calculated:

| Fractional Enrollment |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade Level | STD | Total Enroll. | $\begin{array}{\|l} \hline \text { (Enroll.// } \\ \text { STD) } \end{array}$ | Min <br> Full <br> Size <br> Classroo <br> ms | Fractional <br> Enrollment | Full Size <br> Due to <br> Fractional Enrollment | Total Full Size Classrooms |
| FACE |  |  |  |  |  |  |  |
| Kindergarten | 20 | 43 | 2.15 | 2 | 0.15 | 1 | 3 |
| First | 22 | 32 | 1.45 | 1 | 0.45 | 1 | 2 |
| Second | 22 | 16 | 0.73 | 1 | 0 | 0 | 1 |
| Third | 22 | 17 | 0.77 | 1 | 0 | 0 | 1 |
| Fourth | 25 | 10 | 0.40 | 1 | 0 | 0 | 1 |
| Fifth | 25 | 17 | 0.68 | 1 | 0 | 0 | 1 |
| Sixth | 25 | 25 | 1.00 | 1 | 0 | 0 | 1 |
| Seventh | 25 | 17 | 0.68 | 1 | 0 | 0 | 1 |
| Eighth | 25 | 29 | 1.16 | 1 | 0.16 | 1 | 2 |
| - |  |  |  |  |  |  | 13 |

Therefore, thirteen full-size classrooms would be needed.
During the design phase, the architects and engineers will determine the most appropriate classroom configuration.

## Attachment 1 (continued)

## Example 1-Replacement K-8 Elementary School

## Step 3. Apply Criteria to Determine Net Square Footage.

Once the enrollment figures are analyzed, the criteria in this handbook will be utilized to determine the space requirements for the core programs. Applying the data developed in Step 2 to the criteria in Appendix D, the planner will calculate the following square footages:

| Interdisciplinary Classrooms | 14,330 |  |
| :---: | :---: | :---: |
| Dedicated Classrooms | 7,476 |  |
| Special Education | 7,486 |  |
| Administration | 3,400 |  |
| Library | 2,372 |  |
| Physical Education | 9,962 |  |
| Food Services / Dining | 3,313 |  |
| Support Services | 2,350 |  |
| Total Net Square footage | 50,689 |  |
| Eligible Non-Core Programs |  |  |
| Total Net Square footage | 50,689 |  |
| Passageways | 6,589 | 13\% |
| Mechanical/Elect Equipment Areas | 1,014 | 2\% |
| Restrooms | 1,014 | 2\% |
| Wall Thickness | 4,055 | 8\% |
| Total Circulation/Non-specific Program: | 12,672 |  |
| Total allowable gross square footage | 63,361 |  |
| Interdisciplinary Classrooms |  |  |
| Full Size Classroom Type | \# of Classrooms | Total (sq ft) |
| FACE |  |  |
| FACE Adults Classroom |  |  |
| Dedicated FACE Restroom |  |  |
| FACE, Office Space |  |  |
| Outdoor Play Area |  |  |

## Attachment 1 (continued)

| Kindergarten | 3 | 3,960 |
| :---: | :---: | :---: |
| Dedicated Kindergarten Restroom | 6 | 480 |
| First Grade (1) | 2 | 1,920 |
| Dedicated First Grade Restroom | 4 | 320 |
| Second Grade (2) | 1 | 960 |
| Third Grade (3) | 1 | 960 |
| Fourth Grade (4) | 1 | 955 |
| Fifth Grade (5) | 1 | 955 |
| Sixth Grade (6) | 1 | 955 |
| Seventh Grade (7) | 1 | 955 |
| Eighth Grade (8) | 2 | 1,910 |
| Ninth Grade (9) |  |  |
| Tenth Grade (10) |  |  |
| Eleventh Grade (11) |  |  |
| Twelfth Grade (12) |  |  |
| Total Space for Classrooms: |  | 14,330 |
| Dedicated Classrooms |  |  |
| Computer Labs | 1,776 |  |
| Computer Lab Storage | 240 |  |
| Science Lab | 1,440 |  |
| Science Lab Storage | 120 |  |
| STEM/ STEM storage |  |  |
| Music/Choral Classroom and Storage |  |  |
| Home Economics/Life Skills | 960 |  |
| Home Economics/ Life Skills Storage | 200 |  |
| Practical and Fine Arts | 1,250 |  |
| Practical and Fine Arts Storage | 120 |  |
| Industrial Arts Shop |  |  |
| Cultural Classroom | 1,250 |  |
| Cultural Classroom storage: | 120 |  |
| Total Space for Dedicated Classrooms: | 7,476 | sq ft |

## Attachment 1 (continued)

| Special Programs Classrooms |  |
| :---: | :---: |
| Family and Child Education (FACE) | Allowed sq. ft. |
| Child Classroom | 1380 |
| Adult Classroom | 900 |
| Restroom | 100 |
| Kitchenette | 80 |
| Storage Space | 100 |
| Adjacent Office Space | 360 |
| Outdoor Play Area |  |
| Special Education |  |
| Therapy Classroom | 980 |
| Therapy Restroom | 100 |
| Kitchenette | 80 |
| \# of Resource Classrooms based on Enrollment |  |
| K-5 | 1,920 |
| 6 thru 8 | 960 |
| 9 thru12 |  |
| Office/Testing Room | 200 |
| Gifted and Talented | 1,920 |
| SPED Conference Room | 200 |
| SPED File Storage | 125 |
| Total Space for Special Programs |  |
| Classrooms: | 7,486 sq ft |
| Administration Space Allowed sq. ft. |  |
| Principal's Office | 150 |
| Assistant Principal Office |  |
| Other Offices | 240 |
| Counseling | 150 |
| Reception / Secretary | 300 |
| Faculty Area (lounge, faculty workroom) | 700 |
| Nurse's Office and Cot Area | 225 |
| Nurse's Office Dedicated Restroom | 50 |
| Vault / Cash / Record Storage | 125 |
| Copy / Mail / School | 150 |
| Conference Room | 300 |
| School Entry Lobby | 300 |
| Grant School Administrative Offices |  |
| Executive Director's Office | 200 |

\#20-56, Issued: 05/01/20
Replaces "Indian Affairs Educational Space Criteria Handbook," Issued: 11/01/05

## Attachment 1 (continued)

| Business Manager's Office Procurement Staff Office Human Resources Security Office | 150 |
| :---: | :---: |
|  | 120 |
|  | 120 |
|  | 120 |
|  | 3400 sq ft |
| Media Center (Library) <br> Allowed sq. ft. |  |
| Reading/Browsing/Stack | 827 |
| Professional Publications | 75 |
| Librarian Office | 120 |
| Audio/Visual | 200 |
| Storage/Workroom | 300 |
| Circulation/Checkout | 100 |
| Student Project Room | 500 |
| Conference Room | 250 |
|  | 2,372 sq ft |
| Physical Education - Indoor Allowed sq. ft. |  |
| Mini-Gymnasium K-8 | 4,680 |
| Bleacher Seating | 1,236 |
| High School Gymnasium | 0 |
| Bleacher Seating | 0 |
| Auxiliary Physical Education Room | 0 |
| Shower/Dressing Area | 300 |
| Locker Rooms | 1,181 |
| Physical Education Staff Offices | 120 |
| Physical Education handicapped accessible toilet | 100 |
| Permanent Stage and Storage | 750 |
| Storage for Physical education equipment | 600 |
| Concession Area | 195 |
| High School Gymnasium Public |  |
| Restrooms | 800 |
|  | 9,962 sq ft |
| Dining Room and Kitchen Area |  |
| Dining \& Storage Room Size | 1,545 |
| Chair/Table Storage | 250 |

## Attachment 1 (continued)

| Kitchen Size: | 1,518 <br> 3,313 <br> sq ft |  |
| :--- | :---: | :--- |
|  | Support Services |  |
| Facility Maintenance Office | 150 |  |
| Facility Maintenance Lounge with |  |  |
| Lockers | 250 |  |
| Facility Maintenance Shop | 600 |  |
| Facility Maintenance Restroom | 200 |  |
| Maintenance Equipment | 250 |  |
| Maintenance Material Storage | 300 |  |
| Chemical Storage | 100 |  |
| Custodial Closets and Storage | 250 |  |
| General Storage | 250 |  |
| Total Space for Support Services: | $2,350 \quad \mathrm{sq} \mathrm{ft}$ |  |

## Step 4. Identify Eligible Non-Core Programs.

The criteria addresses only core programs for the Bureau; however, many schools conduct programs that the Bureau does not recognize as core. The amount of space for approved non-core programs must be determined.

## Step 5. Net-to-Gross Conversion

The maximum space allowances identified for specific programs are in terms of net square footage. Additional square footage is added to the total net square footage to provide for circulation and related non-specific program spaces such as mechanical equipment rooms, utility chases, student and public restrooms, corridors, lobbies, vestibules, stairwells, ramps, elevator shafts, and wall thickness. Using the net-to-gross factors found in Section 3 of this handbook, the following additional square footage is calculated.

|  | Add Factor - <br> \% of Total Net <br> SF (50,689 SF) | Additional <br> Square <br> Footage |
| :--- | :---: | :---: |
| Passageways | $13 \%$ | 6589 |
| Restrooms | $2 \%$ | 1014 |
| Mechanical/Electrical Equipment | $2 \%$ | 1,014 |
| Wall Thickness | $8 \%$ | 4,055 |
| Total: | $25 \%$ | 12,672 |

\#20-56, Issued: 05/01/20
Replaces "Indian Affairs Educational Space Criteria Handbook," Issued: 11/01/05

## Attachment 1 (continued)

The total gross square footage is the total net square footage $(50,689)$ plus circulation allowances and related non-specific program space (12,672), which equals 63,361 gross square feet. By following the steps above, the planner determines the space for each individual program, as well as the overall size of the facility.

## Attachment 1 (continued)

## Example 2-Replacement K-12School

In this example, a fictitious $\mathrm{K}-12$ school has entered into the planning phase for the construction of a replacement facility. The steps outlined in Section 2.2 will be followed to determine the space for each individual program, as well as the overall size of the facility.

## Step 1. Determine Enrollment

The candidate school must work with the BIE to provide an enrollment plan for the replacement facility. The BIE will utilize the most recent directives to aid in the enrollment projection process. Ultimately, for replacement school construction the enrollment plan must specify the projected number of pupils within each approved grade level. For this example, the following enrollment projection has been submitted:

| Enrollment Projection |  |
| :--- | ---: |
| Kindergarten | 42 |
| First | 99 |
| Second | 72 |
| Third | 108 |
| Fourth | 47 |
| Fifth | 59 |
| Sixth | 58 |
| Seventh | 96 |
| Eighth | 103 |
| Ninth | 95 |
| Tenth | 76 |
| Eleventh | 61 |
| Twelfth | 60 |
| Total: | 976 |

## Attachment 1 (continued)

## Example 2-Replacement K-12School

Step 2. Reconcile Fractional Enrollment.

| Fractional Enrollment |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade Level | STD | Total Enroll. | $\left\|\begin{array}{c} \text { (Enroll. } \\ 1 \\ \text { STD }) \end{array}\right\|$ | Min. <br> Full Size <br> Classroom <br> s | Fractional <br> Enrollment | Full Size <br> Due to <br> Fractional <br> Enrollmen t | Total Full Size Classroom s |
| Kindergarten | 20 | 42 | 2.10 | 2 | 0.10 | 1 | 3 |
| First | 22 | 99 | 4.50 | 4 | 0.50 | 1 | 5 |
| Second | 22 | 72 | 3.27 | 3 | 0.27 | 1 | 4 |
| Third | 22 | 108 | 4.90 | 4 | 0.90 | 1 | 5 |
| Fourth | 25 | 47 | 1.88 | 1 | 0.88 | 1 | 2 |
| Fifth | 25 | 59 | 2.36 | 2 | 0.36 | 1 | 3 |
| Sixth | 25 | 58 | 2.32 | 2 | 0.32 | 1 | 3 |
| Seventh | 25 | 96 | 3.84 | 3 | 0.84 | 1 | 4 |
| Eighth | 25 | 103 | 4.12 | 4 | 0.12 | 1 | 5 |
| Ninth | 25 | 95 | 3.80 | 3 | 0.80 | 1 | 4 |
| Tenth | 25 | 76 | 3.04 | 3 | 0.04 | 1 | 4 |
| Eleventh | 25 | 61 | 2.44 | 2 | 0.44 | 1 | 3 |
| Twelfth | 25 | 60 | 2.40 | 2 | 0.40 | 1 | 3 |
|  |  |  |  |  |  | Total: | 48 |

Therefore, 48 full-size classrooms would be needed.

## Step 3. Apply Criteria to Determine Net Square Footage

Once the enrollment figures are analyzed, the criteria in this handbook will be utilized to determine the space requirements for the core programs. Applying the data developed in Step 2 to the criteria in Appendix D, the planner will calculate the following square footages:

|  |  |
| :--- | ---: |
| Interdisciplinary Classrooms | 48,285 |
| Dedicated Classrooms | 20,654 |
| Special Education | 16,440 |
| Administration | 3,865 |


|  | Attachment 1 (continued) |  |
| :---: | :---: | :---: |
| Library | 7,440 |  |
| Physical Education | 24,284 |  |
| Food Services / Dining | 10,930 |  |
| Support Services | 2,700 |  |
| Total Net Square footage | 134,598 |  |
| Eligible Non-Core Programs |  |  |
| Total Net Square footage | 134,598 |  |
| Passageways | 17,498 | 13\% |
| Mechanical/Elect Equipment |  |  |
| Areas | 2,692 | 2\% |
| Restrooms | 2,692 | 2\% |
| Wall Thickness | 10,768 | 8\% |
| Total Circulation/Nonspecific Program: | 33,650 |  |
| Total allowable gross square footage | 168,248 |  |
|  | Interdisciplinary Classrooms \# of |  |
| FACE |  |  |
| FACE Adults Classroom |  |  |
| Dedicated FACE Restroom |  |  |
| FACE, Office Space |  |  |
| Outdoor Play Area |  |  |
| Kindergarten | 3 | 3,960 |
| Dedicated Kindergarten |  |  |
| Restroom | 6 | 480 |
| First Grade (1) | 5 | 4,800 |
| Dedicated First Grade |  |  |
| Restroom | 10 | 800 |
| Second Grade (2) | 4 | 3,840 |
| Third Grade (3) | 5 | 4,800 |
| Fourth Grade (4) | 2 | 1,910 |
| Fifth Grade (5) | 3 | 2,865 |
| Sixth Grade (6) | 3 | 2,865 |
| Seventh Grade (7) | 4 | 3,820 |

\#20-56, Issued: 05/01/20
Replaces "Indian Affairs Educational Space Criteria Handbook," Issued: 11/01/05


|  | Attachment 1 (continued) |
| :--- | :---: |
| Outdoor Play Area |  |
| Special Education |  |
| Therapy Classroom | 2640 |
| Therapy Restroom | 300 |
| Kitchenette | 240 |
| \# of Resource Classrooms based on Enrollment |  |
| K-5 | 3,520 |
| 6 thru 8 | 2,640 |
| 9 thru12 | 4480 |
| Office/Testing Room | 200 |
| Gifted and Talented | 1,920 |
| SPED Conference Room | 200 |
| SPED File Storage | 300 |
| Total Space for Special | 16,440 |
| Programs Classrooms: |  |
|  |  |
|  |  |


|  | Attachment 1 (continued) |
| :---: | :---: |
|  | Media Center (Library) Allowed sq. ft. |
| Reading/Browsing/Stack | 4220 |
| Professional Publications | 150 |
| Librarian Office | 240 |
| Audio/Visual | 400 |
| Storage/Workroom | 550 |
| Circulation/Checkout | 200 |
| Student Project Room | 1,380 |
| Conference Room | 300 |
|  | 7,440 sq ft |
|  | hysical Education - Indoor Allowed sq. ft. |
| Mini-Gymnasium K-8 | 4,680 |
| Bleacher Seating | 3,486 |
| High School Gymnasium | 7,280 |
| Bleacher Seating | 2,106 |
| Auxiliary Physical |  |
| Education Room | 1,700 |
| Shower/Dressing Area | 300 |
| Locker Rooms | 1,932 |
| Physical Education Staff |  |
| Offices | 250 |
| Physical Education |  |
| handicapped accessible toilet | 100 |
| Permanent Stage and |  |
| Storage | 750 |
| Storage for Physical |  |
| education equipment | 600 |
| Concession Area | 300 |
| High School Gymnasium |  |
| Public Restrooms | 800 |
|  | 24,284 sq ft |
|  | ining Room and Kitchen Area |
| Dining \& Storage Room |  |
| Size | 7,320 |
| Chair/Table Storage | 250 |
| Kitchen Size: | 3,360 |
|  | 10,930 sq ft |

## Attachment 1 (continued)

|  | Support Services |
| :--- | :---: |
| Facility Maintenance Office | 150 |
| Facility Maintenance Shop | 700 |
| Facility Maintenance | 300 |
| Lounge with Lockers <br> Facility Maintenance <br> Restroom <br> Maintenance Equipment | 200 |
| Maintenance Material <br> Storage | 250 |
| Chemical Storage <br> Custodial Closets and | 300 |
| Storage | 100 |
| General Storage | 300 |
| Total Space for Support | 400 |
| Services: | $2,700 \quad$ sq ft |

## Attachment 1 (continued)

## Example 2-Replacement K-12School

## Step 4. Identify Eligible Non-Core Programs

These criteria address only core programs for the Bureau; however, many schools conduct programs that the Bureau does not recognize as core. The amount of space for approved non-core programs must be determined.

## Step 5. Net-to-Gross Conversion

The maximum space allowances identified for specific programs are in terms of net square footage. Additional square footage is added to the total net square footage to provide for circulation and related non-specific program spaces such as mechanical equipment rooms, utility chases, student and public restrooms, corridors, lobbies, vestibules, stairwells, ramps, elevator shafts, and wall thickness. Using the net-to-gross factors found in Section 3 of this handbook, the following additional square footage is calculated.

|  | Adder Factor <br> - \% of Total <br> Net SF 134,598 | Additional <br> Square <br> Footage |
| :--- | :---: | :---: |
| Passageways | $13 \%$ | 17,498 |
| Restrooms | $2 \%$ | 2,692 |
| Mechanical/Electrical Equipment | $2 \%$ | 2,692 |
| Wall Thickness | $8 \%$ | 10,768 |
| Total: | $25 \%$ | 33,650 |

The total gross square footage is the total net square footage $(134,598)$ plus circulation allowances and related non-specific program space $(33,650)$, which equals 168,248 gross square feet. By following the steps above, the planner determines the space for each individual program, as well as the overall size of the facility.

