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# Shippensburg University

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SU-711

## HEIGES FIELD HOUSE ADDITION STUDY

CONTRACT 600216  
WORK ORDER #97-1

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**EXECUTIVE SUMMARY**

Entech Engineering, Inc. and Entech Architectural Services, Inc. was retained by Shippensburg University to develop the following feasibility and space programming study to support a capital funding request to the State System of Higher Education (SSHE) for the construction of an addition to the Heiges Field House. The existing Field House primarily contains the indoor athletic spaces and support functions of the University. An addition is foreseen to accommodate the relocation of women's athletic programs and Health and Physical Education programs currently housed in the Henderson Gymnasium building, which will be converted to another use consistent with the University's Master Plan.

As part of this study, Entech interviewed the University staff to help identify deficiencies with the existing facilities, and to develop a project program for a building addition.

At the conclusion of the programming phase, the building requirements for all the programmed spaces totaled 229,391 gross square feet. Presently, Heiges Field house is 91,634 gross square feet and Henderson Hall is 36,250 gross square feet which totals 127, 884 gross square feet.

From the information gathered, we have prepared two schemes for review. In Scheme 2, the scope of work is for a 137,757 gross square foot building addition that includes all the requirements identified in the programming stage. In the other scheme, Scheme 1, we have decreased many of the programmed building requirements in order to come closer to meeting SSHE building inventory guidelines. Scheme 1 calls for an addition of 61,232 gross square feet, which still results in an excess of 13% (10,244 assignable square feet) of use code 520 - Indoor Athletics.

*Section to be completed upon final selection of space and concept plans.*

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### 1.0 PURPOSE & GOAL

Shippensburg University has determined through its Master Planning effort that it needs to consolidate campus physical education, athletics and student recreation in a single zone in the vicinity of Heiges Field House and Seth Grove Stadium.



### Heiges Field House

Currently, physical education and athletic activities are predominately split between Henderson Gymnasium and Heiges Field House, with further elements distributed to Seth Grove Stadium and other campus buildings. The Goal to centralize all these activities and functions in one location will focus around the University's main athletic facility, Heiges Field House. With the new uses planned for Henderson Gymnasium, Heiges Field House will require an addition and interior alterations to accommodate the replacement of those functions previously housed in Henderson and to improve and enhance the function of current spaces of Heiges to contemporary standards.

The addition and alterations to Heiges as presented in this study address the Health and Physical Education Department and Athletic Department space needs, consistent with the State System of Higher Education's facility use and area appropriation guidelines. Specialized and dedicated student recreation facilities have not been provided for in this project program and must be addressed by the University as a separate project.

The primary purpose of this study is to provide Shippensburg University with sufficient facility program documentation and project cost information in order for the University to pursue sources for project funding.

## 2.0 RECOMMENDATIONS

### 2.1 Description of Selected Option

#### 2.1.1 Requirement for Project (Academic Program/Mission Support)

Heiges Field House was built in 1970 as a men's athletics center with two classroom spaces for the Department of Health and Physical Education. Since its construction it has continued as an athletics facility but has, wherever reasonably practical, accommodated women's athletics in an attempt to achieve gender equality. The buildings primary athletic and classroom spaces can easily continue to serve their intended purposes, but the supporting facilities of offices, locker rooms and storage will require reconfiguration and expansion to meet current use demands and optimum gender equity with the centralization of the university's athletic and health and physical education, functions around the Heiges Field House.

The existing building, which totals 91,634 gross square feet, is divided into three distinct parts. The dominant structure is the arched-domed arena that houses the main indoor athletic courts and serves as a convocational, assembly and concert facility. The Arena totals nearly 34,000 square feet. The Natatorium at the south end of the structure is approximately 8,000 square feet and two-stories in height with a mechanical support space below. The supporting functions such as ancillary athletic facilities, classrooms and offices are housed in a three-story structure between the Natatorium and Arena. The Arena portion of the building would be classified as *Protected Heavy Timber Construction*, per Pennsylvania Department of Labor and Industry's Fire and Panic Code, and is *Type 4 - Heavy Timber Construction*, per BOCA 1996 National Building Code. The Natatorium and three-story portion of the building would be classified as *Noncombustible Construction*, per Pennsylvania Department of Labor and Industry's Fire and Panic Code, and is *Type 1B - Noncombustible Construction*, per BOCA 1996 National Building Code. The Occupancy Use Groups classifications for the respective sections are as follows:

#### Department of Labor and Industry:

|                     |                            |
|---------------------|----------------------------|
| Arena & Natatorium  | <i>Group A-1, Assembly</i> |
| Three Story Section | <i>Group B, Education</i>  |

#### BOCA 1996

|                          |  |
|--------------------------|--|
| Arena & Natatorium       | <i>'A-3' Assembly</i>  |
| Three Story Section      | <i>'B' Business</i>  |
| Specific Occupancy Areas | <i>Storage (Requires separation and/or fire protection systems).</i> |

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The Field House's main entrance faces the main campus, providing convenient pedestrian access. Parking is limited around the facility and access from parking is through secondary entrance or requires visitors to walk around the perimeter of the facility to obtain access through the main entrance. The main arena has multiple entrance and exit doors directly from the outside on two sides with additional access through the adjacent three-story section. Internal circulation within the three-story section is via the main lobby area, corridors and stair towers. An existing elevator provides vertical accessibility to all levels.

The building has not received any notable alterations or changes in space except for minor modifications of, or conversions for, additional office area. The Arena area has received replacements of the flooring, lighting systems and bleachers. The roofing was replaced several years ago and is being maintained adequately to last at least ten years without significant cost. The majority of the building is original construction and after over 30 years of heavy use, requires attention to renew and modernize its systems and finishes. Key elements that must be addressed with this alteration and addition are as follows:

- The existing heating and ventilating systems are original to the building and show signs of deterioration. These systems have reached their expected functional service life of 30 years.
- The existing temperature control systems are antiquated.
- The existing electrical service and panels are not sufficient for current educational and office technology requirements and insufficient for the type of special events conducted in the arena.
- The current lighting (except the arena) is insufficient for current educational standards and is inefficient with respect to energy usage.
- Statutes and codes mandate replacement of equipment and systems to eliminate safety and health deficiencies, and compliance with handicapped accessibility requirements.
- The telecommunications infrastructure is incapable of supporting modern network technology necessary to the classrooms and offices.
- The classrooms lack support for multi-media teaching technology.

Consistent with the Campus Master Plan, the University plans to consolidate all athletic and health and physical education functions to the Heiges Field House and Seth Grove Stadium area of campus, and reuse the Henderson Gymnasium for other functions. Alterations and additions to Heiges Field House will be necessary to achieve this consolidation and enhance the gender equity of the athletic facilities.

The successful completion of this project is crucial to the continued viability of Shippensburg University's programs of health and physical education and athletics.

2.1.2 Nature of the Recommended Project (Basic characteristics and summary)

The selected project scheme that most closely balances the needs and desires of the facility users against the allowed assignable area, which the University can construct under the SSHE guidelines, is presented in Scheme 3. This scheme calls for the interior alterations of the Heiges Field House and construction of a two-story addition totaling 58,116 gross square feet.

**Summary of Recommended Scheme**

The scope of the alterations of the Field House includes:

- Reconfiguration of the faculty and general locker rooms, public restroom, office areas, and sports medicine and rehabilitation.
- Reconfiguration of the second floor to accommodate offices.
- Reconfiguration of the internal circulation that will allow it to remain open to users simultaneously with other major events and activities in the Arena, and allow access to playing fields without having to traverse the front lobby or Arena.
- Provide accommodations on the west side of the Arena for performers of major events in the Arena.
- Provide space and utilities for food services and storage to support the Arena activities.
- Replacement of major heating and ventilation systems.
- Replacement of the pool filtration systems.
- Replacement and upgrade of electrical distribution systems.

The scope of the addition includes. (58,116 gross square feet)

- Athletic locker space for men and women, with dedicated team rooms.
- Toilet and shower facilities for support of the locker areas.
- Office areas for faculty and coaches.
- Laboratory instructional space.
- Gymnasium and various athletic spaces.
- Sports medicine and rehabilitation space.
- Storage space.
- Mechanical and electrical space.



### 2.1.3 Special Engineering and Architectural Features

The following special engineering and architectural features are elements that should be considered during design and construction of the proposed facility.

**Subsurface Conditions:** Bedrock underlying Heiges Field House and the site of the proposed addition includes the Rockdale Run formation of Ordovician Age. The carbonate bedrock at the site is moderately solution-prone, highly calcareous and weathers differentially to produce a pinnacled or sawtooth top of rock profile. Therefore, very pronounced rock pinnacles would be anticipated in this region. Common features associated with karst terrain include caves, internal drainage, lack of surface streams, solution channels and topographic features such as sinkholes. These features are the result of the dissolution of soluble bedrock, such as limestone or dolomite, over geologic time by groundwater and/or infiltration of surface water. Review of the available original construction documentation for the Heiges Field House revealed that the building required significant special foundations. The site as a whole was over excavated, uneven bedrock formations leveled, filled with crushed stone and covered with a raft matt of three-foot thick concrete. Additional fill was added and compacted, followed by traditional building foundation construction. Recent construction of a nearby building also encountered similar subsurface conditions that increase the building's cost. Any proposed construction of additions to Heiges would also have to address the low bearing capacity of the subsurface soil conditions. The construction budget must include an allowance for the additional cost to remediate these geotechnical conditions.

**Special Testing:** Prior to any alterations being undertaken the facility should be tested for existing lead paint coating that may be present requiring removal or remediation. Also, the facility should be tested for radon gas infiltration.

**Site Access:** The current facility does not have direct access to the outdoor sports facilities without going through the existing Arena area. Any planned additions to the facility should address this concern.

**Special Building Features:** The proposed alterations and addition design must take into consideration hazardous materials remediation, indoor air quality enhancement, classroom design, ADA compliance, roofing, windows, doors, floor and wall finishes, toilet compartments, fire protection systems, elevator, circulating pumps, heating, ventilation, and air conditioning, automatic temperature control, pool water filtration systems, humidity, plumbing piping and fixtures, electrical distribution, emergency generator, lighting, fire alarm, telecommunications and CATV infrastructure.

#### 2.1.4 Future or Adjacency Considerations

Connection to Planned Buildings: The University's Master Plan has identified the adjacent site to the south of Heiges as the location of an Instructional Arts Facility which should be connected to Heiges with an enclosed walkway. This connecting link would facilitate and enhance the interrelationship of the two facilities for use as convocation and convention facilities.

#### 2.1.5 Special Professional Services

Subsurface geological conditions will require the expertise of a Pennsylvania licensed Geotechnical Engineer to analysis test of the subsurface conditions and prepare designs for the special foundations that may be required to support an addition to the facility.

Telecommunications and CATV infrastructure that will be desired for the expanded facility will require services of Registered Communications Distribution Designer.

Consistent with the Commonwealth of Pennsylvania's Green Government Program, the design professionals should assure that the entire facility alteration and expansion follows good sustainable building design including high levels of energy efficiency, creates the lest possible environmental impacts, reduces resource consumption and improves occupant health and productivity.

#### 2.1.6 Special Testing Requirements

The project will require significant subsurface soil condition testing and investigation for use by a licensed Geotechnical Engineer. Subsurface testing could include multiple test borings, test excavations and ground sonar imaging. This investigation should take place prior to the final design of the building and any necessary special construction included in the project cost.

Testing and inspections will be necessary to determine presence and extent of lead within paint finishes throughout the facility and a removal or remediation plan developed for implementation prior to alterations of the existing facility.

Air quality testing should be performed to determine any presence of radon gas within the facility. If present a design for the appropriate ventilation of the building must be developed.

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**2.2 Summary Budget Cost Estimate**

**Facility Budget:**

The following summary capital project cost estimate has been developed for the recommended project, Scheme 3. Details used to develop this estimate can be found in Appendix J.

*Summary Capital Project Cost Estimate*

|                                    |                     |
|------------------------------------|---------------------|
| Site Preparations                  | \$820,000           |
| Construction Cost – Addition       | \$7,418,000         |
| Construction Cost – Renovations    | \$5,804,000         |
| Special Equipment                  | \$769,000           |
| Supporting Utilities               | \$199,000           |
| Site Improvements                  | \$180,000           |
| <b>Base Const./Renovation Cost</b> | <b>\$15,190,000</b> |
| Contingency                        | \$3,038,000         |
| <b>Total Project Cost</b>          | <b>\$18,228,000</b> |

**2.3 Phasing Plan**

The recommended phasing for the construction suggest the addition and site utilities be constructed first, allowing the new areas to be occupied and utilized during the alterations of the existing facilities. The main Arena facility could remain in use throughout the entire construction process with only minor interruption that may be required around the perimeter of the main area. A detailed phasing proposal is included in Appendix K.

**2.4 Drawing List:**

The recommended Scheme 3 concept drawings include the following and can be found in Appendix L.

- Conceptual Site Plan
- Ground Floor Level
- First Floor Level – Arena (West)
- First Floor Level (East)
- Second Floor Level

### 3.0 SCHEMES CONSIDERED

The following are brief descriptions of the three conceptual programs and plans developed as part of this study. Detailed space programs of each scheme can be found in Appendix N, plan drawings of each scheme can be found in Appendix M.

#### 3.1 Scheme 1

The arrangement of Scheme 1 minimizes the interior alterations of the second floor in the existing building by retaining the classrooms and wrestling room in their current location, and locates the majority of the athletic coaches and staff on the ground floor of the addition with immediate access to the exterior athletic fields. The general and team locker rooms are located on the first floor of the addition with immediate adjacency to the swimming pool and easy access to the Arena and new large gymnasium. However, access to the exterior athletic facilities from the locker rooms requires an interior change in level and circulation along a common corridor. Also, the corporate hospitality suite is very remote from the Arena.

The Scheme 1 addition will total 48,766 gross square feet of space.

The SSHE current space guidelines for use category code 520 - indoor athletics space has been calculated for Shippensburg University to be limited to 76,363 assignable square feet. The current combination of the existing spaces in Henderson and Heiges is 78,869 assignable square feet. Under Scheme 1 the programmed 520 - indoor athletic space will be 78,869 assignable square feet. This total matches the combined existing assignable square feet, but is 2,506 square feet, 3.3% over the current allowable area.

#### 3.2 Scheme 2

The arrangement of Scheme 2 is very similar to Scheme 1 except that the wrestling room is located in the addition adjacent to athletic offices, with other athletic department functions. The former wrestling space of the second floor would accommodate the faculty offices, the additional H&PE instructional laboratory and the small gymnasium. This arrangement ideally groups the Health and Physical Education Department faculty together and adjacent to their main instructional facilities.

The Scheme 2 addition will total 50,653 gross square feet of space.

Under Scheme 2 the programmed indoor athletic space is calculated to be 78,842 assignable square feet. This total is below the combined existing assignable square feet of 78,869, but is still 2,479 square feet, 3.2% over the current allowable area.

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**3.3 Scheme 3**

The arrangement of Scheme 3 places the general and team locker rooms on the ground floor of the addition. The Health and Physical Education Department faculty offices are immediately adjacent to the instructional spaces and occupy a large portion of the first floor of the addition. In lieu of two classrooms and one laboratory as in Schemes 1 & 2, Scheme 3 provides 4 laboratories, which better reflects the way the department utilizes its instructional space.

The majority of athletic staff offices have been located on the second floor of the existing building. This space offers a centralized location for the athletic office space and allows the new construction to respond to the more specialized requirements of the larger active athletics spaces.

The Scheme 3 addition will total 58,116 gross square feet of space.

Under Scheme 3 the programmed 520 - indoor athletic space totals 79,686 assignable square feet. This total exceeds the combined existing assignable square feet by 817 square feet (1%), and is 3,323 square feet, 4.4% over the current allowable area.

## **4.0 EVALUATION**

### **4.1 Evaluation Criteria**

The University's measure of success for this project will be how well the space program and functional arrangement meet the goals and objectives that have been established by the athletic program, and Health and Physical Education Departments, while conforming with the requirements of the State System of Higher Education. These goals and objectives are detailed in Section 5 of this report.

The space program must achieve gender equity of facilities, meet the space needs necessitated by the relocation and consolidation of facilities from elsewhere on campus to Heiges Field House, and accommodate additional or enhanced functional spaces. All conceptual designs explored for this report utilized the same basic space program requirements and successfully fulfilled these needs. However, each scheme offers a different functional arrangement of the spaces within the existing building and the addition. The functional arrangement and juxtaposition of spaces to each other within each scheme is important to consider and is critical when evaluating the success of meeting the University's goals.

### **4.2 Evaluation Summary and Conclusions**

#### **Scheme 1**

The functional arrangement of Scheme 1 strives to maintain much of the existing spaces of the facility intact and utilized the addition for relocated and new functions. This results in the smallest area requirement for new construction and the least cost of alteration but seriously compromises the desired functional relationship between the spaces.

#### **Scheme 2**

The functional arrangement of Scheme 2 groups the Health and Physical Education Department faculty and classroom instructional space on the second floor of the existing building. While this arrangement achieves a consolidation of the department, it provides less than desired functional space for the physical education instructional laboratories because they are limited by the existing structure.

#### **Scheme 3**

The functional arrangement of Scheme 3 accommodates the Health and Physical Education Department faculty and classroom instructional space on the first floor of the new addition. This offers the opportunity to create new instructional spaces ideally designed in shape and size to optimally serve their function. These educational spaces are also located on the main floor level of the building, making them ideally accessible, visible and usable by the entire University community. Another beneficial functional arrangement of Scheme 3 is the placement of the locker facilities on the ground level, offering direct access to these areas from the outdoor athletic facilities. For the above stated reasons, Scheme 3 is the desired concept chosen for development.

## **5.0 PROGRAM DEVELOPMENT**

This report section summarizes the methodologies that have been utilized to program the space requirements of the expanded facility. Through the course of developing the space program the professional must understand and respect the goals and objectives of the University to properly establish the correct space program. Certain assumptions must also be made to correctly define the parameters of the project. These issues are summarized in the following sections.

### **5.1 Goals, Objectives, Assumptions**

As part of its Master Planning effort, Shippensburg University has set a goal to consolidate all physical education, athletic functions and student recreation facilities into a single zone on campus that is in the vicinity of Heiges Field House and Seth Grove Stadium.

Specific objectives to fulfill the health and physical education and athletic functions have been identified as follows:

- Improve SU compliance with Title IX Gender Equity (locker rooms, shower rooms, etc.)
- Provide space for functions to be transferred from Henderson Hall (which will become a future Student Services Center):
  - Physical Education Department, faculty offices, instructional space
  - Women's athletics coaching staff offices
  - Rowland Lab School swimming and other physical education instruction
  - Sports Medicine Clinic
- Provide adequate office space for coaches and staff located in Seth Grove Stadium, Shippen Hall and Henderson Gymnasium.
- Provide adequate space for athletic and special event support activities (electronic equipment storage, maintenance shop, etc.).

Additional goals identified through discussion with the various department staff members included:

- Allow concurrent events to be scheduled without shutting down the entire building to other activities.
- Consider the relocation of the Facility Office Building to partially satisfy the space needs of the Field House.

The current situation under which the university operates can be summarized as follows:

- Physical education facilities are currently split between Heiges Field House and Henderson Gymnasium.

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- Within the limitations of the facilities available, a balance has been achieved between the genders among University convocation, academics, intercollegiate athletics, intramural's, clubs, recreational, and camps and conference users.

The following are future planning issues that will have an impact on the Heiges Field House:

- The Facilities Master Plan proposes Henderson Gymnasium be converted to a Student Support Center and consolidating physical education facilities in the vicinity of Heiges Field House and Seth Grove Stadium.
- The Master Plan also proposed an Instructional Arts Facility adjacent to the Heiges Field House. This site optimizes adjacency to existing parking, open floor space in the Heiges Field House arena, meeting rooms and cafeteria in the Cumberland Union Building, dining facilities in Reisner Dining Hall, and overnight accommodations in residence halls which are available when academic classes are not in session.
- The Facilities Master Plan also includes the removal of the 6,550 gross square foot Faculty Office Building from its current site at the corner of York Drive and Dauphin Drive. Consideration should be given to relocating this building adjacent to Heiges Field House to accommodate some of the space requirements.

Certain basic assumptions were made in developing the program that directly affects the final space program. The following is a list of the significant assumptions that impact this study.

1. Athletic and physical education functions currently housed in Henderson will have to be accommodated in the Heiges Field House. Some areas currently housed in Henderson are inadequate and will require additional square footage then is currently allocated.
2. The priorities on campus for scheduling uses of any facility is in the following order:
  - academic
  - athletic
  - recreational/student activities
  - all others
3. Any alteration and addition of space to the campus must be categorized by SSHE guidelines and when combined with the campus spaces as a whole, not exceed the allowable quantities without adequate justification.
4. The existing Faculty Office Building must be removed or relocated from its current site in the middle of campus. The University would like to effectively re-use the pre-engineered steel frame building to fulfill some of the space needs of the Heiges Field House.



## **5.2 Data Collection**

The project study initiated with an introductory meeting with the “global decision makers. This meeting was attended by the Acting President, Associate Provost, Vice President of Student Affairs, Director of Athletics, and representatives of the Planning and Engineering Department. This meeting’s primary purpose was to discuss the major goals and objectives of the study. Critical issues such as image, growth, schedule and budget were also discussed. An additional meeting was held which introduced many additional university staff, faculty and student representatives to allow them to state in brief terms their needs and desires for an expanded Heiges Field House.

Intense and detailed small group meetings were conducted with each department or representative. These meetings allowed the individuals to express their specific needs and wants for the proposed facility. From the needs and desires expressed during the interview the planning professional determined the ideal space requirements. Program requirements were developed by comparing current facility allocations and general planning references. Copies of the meeting minutes from these programming meeting are included in the Appendix.

In conjunction with the department meetings, the planning professionals conducted several building walk through to familiarize themselves with the existing space allocations and uses. Existing floor plans of the buildings were also obtained from the University’s Planning and Engineering Office.

The University also provided copies of their Facilities Management Building Data Report for each of the subject four buildings. These reports contain a room-by-room area calculation and assigned use code as well as summaries of total assigned areas by use code and gross building area. Copies of these reports are included in the Appendix. This detailed information was very useful in the preparation of the final program and for comparison purposes against the SSHE classifications.

## **5.3 Critical Issues Identified by Users**

Heiges, as originally designed, cannot currently house all the appropriate staff members nor equipment the building needs to function. The key areas for improvement which were identified during the user interviews are as follows:

- There is a shortage of rest rooms for public use during athletic and special events. Inadequate rest rooms for the number of people; inadequate facilities for women; inconvenient access to men’s room on the second floor. Current facilities interfere with designed airflow for the spaces.
- There is a shortage of locker space for men and women’s athletic teams, visiting teams, faculty, officials and general student population.
- Arena area is unavailable to enough groups at the right time.

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- Limited general student access for recreational activities. However, programming of a student recreation facility is not part of this project.
- There is a shortage of office space for athletic staff. Women's staff are in Henderson, others are in Grove Stadium.
- There is a shortage of storage space. Mechanical rooms are being used for storage, which impacts accessibility for service and creates potential fire hazard.
- Inappropriate circulation routes through the building and to the arena. Must close down remaining portions of the building, limiting student and staff access during any special arena events. Therefore, no controlled or ticket type entrances for the arena. Restroom locations require traffic through entire building.
- Building support service capacity is exceeded today. Electrical distribution is inadequate by current use requirements. Data and communications infrastructure requires enhancement to meet contemporary standards.

### 5.4 Definition of Space and Functional Requirements

The existing facilities at Henderson and Heiges were previously evaluated and inventoried to establish true assignable area and use code designations for each room. The data can be reviewed in the "Facilities Management Building Data" reports found in Appendix E.

The programming process utilized the use codes and categories for each designated area for comparison with the existing and evaluation against SSHE guidelines.

Each SSHE University has inventoried and classified the use of all their facilities. The quantity of areas for a given use is compared against a ratio of that area to the number of student at each campus. The SSHE has established ratios and area guidelines that each University must follow for each use code.

Appendix A contains a list of the use categories, followed by specific definitions of selected use codes applicable to this project.

### 5.5 Development of Alternative Approaches to Meeting Requirements

The three design schemes explored in detail all follow the same basic solution for the location of the principal addition required to accommodate the necessary space needs. All schemes locate the addition to the north of the existing three-story portion of the building. After review and analysis of the site and the internal arrangement and relationship of functions to the major building elements such as the Arena and swimming pool, no other viable alternatives would accommodate the size of facility required and the desired accessibility to the athletic fields.

One alternative solution for providing support space and office space that was considered was the relocation of the existing Faculty Office Building. This small pre-engineered building built as a temporary structure for faculty offices is to be relocated or demolished to

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better utilize the prime site in accordance to the University's current master plan. The concept to relocate the structure to the vicinity of the Heiges Field House to provide coaching staff offices and/or other support functions was explored. A detailed cost estimate to dismantle, reconstruct the structure and replace aged mechanical and electrical systems was prepared. This cost estimate, which can be found in Appendix I, determined that it would be more costly to relocate and reconstruct the building than it would be to construct new office and support space as part of the main facility addition. Therefore, the concept for incorporating the Faculty Office Building into this project was abandoned.

Given that the main mass of any planned addition had to expand the building to the north, three functional arrangements were explored in detail. Scheme 1 strived to maintain the existing spaces in their current assignments and placed the relocated Henderson Gymnasium functions and new spaces in the addition. This resulted in the smallest addition, but created dispersed, mixed space and functional conflicts. Scheme 2 strived to consolidate the health and physical education functions on the existing second floor of the building. This concept resulted in a short fall of desired program and type of space for the health and physical education department due to the existing building limitations. Scheme 3 used the addition to accommodate more ideally the special athletic and instructional space on the main level of the building along with the health and physical education department, thereby, being more directly accessible to the University population as a whole.

Ultimately a project of this type must be constructed in phases that would allow the building to continue serving its primary functions while being expanded. Upon a more detailed phasing study, which is beyond the scope of this report, the development of Scheme 3 would allow the addition to be constructed and beneficially occupied while the existing facility remains in use. Once the addition is completed and occupied the alteration work on the existing facilities could be performed.

### 5.6 Detailed Space Program

#### Scheme 1

The program and conceptual floor plan strived to maintain the existing use of significant spaces such as classrooms, wrestling room and fitness room. By utilizing these spaces the resulting assignable square feet for the addition will be 33,632 square feet resulting in a combined, new and existing, assignable area of 98,307 square feet. The gross area of the addition totals 48,766 square feet. The following "Scheme 1 - Summary of Space Program" outlines the calculations that support the area allocations. A full detailed space program of Scheme 1 can be found in Appendix M.

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**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**Scheme 2**

The program and conceptual floor plan strived to group the health and physical education faculty, the classrooms and instructional space together on the second floor of the existing building. This arrangement of functions will result in assignable square feet for the addition being 34,933 square feet. The combined, new and existing, assignable area will be of 98,760 square feet. The gross area of the addition totals 50,653 square feet. The following "Scheme 2 - Summary of Space Program" outlines the calculations that support these area allocations. A full detailed space program of Scheme 2 can be found in Appendix M.

**Scheme 3**

The program and conceptual floor plan strived to use the addition to accommodate the special athletic spaces, and group the health and physical education faculty, the classrooms and instructional space together on the first floor of the addition. The Athletic Department coaching staff will be located all together on the second floor of the existing building. This arrangement of functions will result in assignable square feet for the addition being 40,080 square feet. The combined, new and existing, assignable area will be of 100,643 square feet. The gross area of the addition totals 58,116 square feet. The following "Scheme 3 - Summary of Space Program" outlines the calculations that support these area allocations. A full detailed space program of Scheme 3 can be found in Appendix M.

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM**

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| Bldg NO                         | FL | Current Floor Area         | Room NO | USE                                      | FUNCTION | Program Area In Existing Bldg | Room No. | Program Area In Addition | Proposed Program Description             | Existing Area Requiring Renovation |
|---------------------------------|----|----------------------------|---------|--|----------|-------------------------------|----------|--------------------------|--|------------------------------------|
| <b>SUMMARY OF SPACE PROGRAM</b> |    |                            |         |  |          |                               |          |                          |  |                                    |
| <b>Existing Building</b>        |    |                            |         |  |          |                               |          |                          |  |                                    |
|                                 |    |                            |         | USE CODE                                 |          |                               |          |                          | USE CODE                                 | Combined Use                       |
|                                 |    | <b>Non-Assignabla Area</b> |         |  |          | <b>Non-Assignabla Area</b>    |          |                          |  |                                    |
|                                 |    | 8,483                      | +       | 7W Total - Circulation                   |          | 9,877                         | +        | 6,646                    | 7W Total - Circulation                   | 16523                              |
|                                 |    | 3,021                      | +       | 8X Total - Building Services             |          | 4,450                         | +        | 2,192                    | 8X Total - Building Services             | 6642                               |
|                                 |    | 7,596                      | +       | 9Y Total - Mechanical Services           |          | 7,432                         | +        | 2,475                    | 9Y Total - Mechanical Services           | 9907                               |
|                                 |    | 19,100                     | =       | <b>SUBTOTAL NON-ASF (w/o Structural)</b> |          | <b>21,759</b>                 | =        | <b>11,313</b>            | <b>SUBTOTAL NON-ASF (w/o Structural)</b> | <b>33072</b>                       |
|                                 |    | 4,741                      | +       | ZZ Total - Structural                    |          | 5,209                         | +        | 3,821                    | ZZ Total - Structural                    | 9030                               |
|                                 |    | <b>23,841</b>              | =       | <b>TOTAL NON-ASF</b>                     |          | <b>26,968</b>                 | =        | <b>15,134</b>            | <b>TOTAL NON-ASF</b>                     | <b>42102</b>                       |
|                                 |    |                            |         |  |          |                               |          |                          |  |                                    |
|                                 |    | <b>Assignabla Area</b>     |         |  |          | <b>Assignabla Area</b>        |          |                          |  |                                    |
|                                 |    | 2,388                      | +       | 100 Total - Classrooms                   |          | 2,226                         | +        | 0                        | 100 Total - Classrooms                   | 2226                               |
|                                 |    | 0                          | +       | 200 Total - Laboratory                   |          | 0                             | +        | 750                      | 200 Total - Laboratory                   | 750                                |
|                                 |    | 3,708                      | +       | 300 Total - Office/Conference            |          | 4,288                         | +        | 6,129                    | 300 Total - Office/Conference            | 10417                              |
|                                 |    | 59,641                     | +       | 520 Total - Athletic/Physical (Indoor)   |          | 56,066                        | +        | 22,803                   | 520 Total - Athletic/Physical (Indoor)   | 79869                              |
|                                 |    | 2,056                      | +       | 540 Total - Clinic                       |          | 0                             | +        | 2,500                    | 540 Total - Clinic                       | 2500                               |
|                                 |    | 0                          | +       | 600 Total - Assembly                     |          | 2,095                         | +        | 1,450                    | 600 Total - Assembly                     | 3545                               |
|                                 |    | <b>67,793</b>              | =       | <b>TOTAL ASF</b>                         |          | <b>64,675</b>                 | =        | <b>33,632</b>            | <b>TOTAL ASF</b>                         | <b>98307</b>                       |
|                                 |    |                            |         |  |          |                               |          |                          |  |                                    |
|                                 |    | <b>Net Usable Area</b>     |         |  |          |                               |          |                          | <b>Net Usable Area (Addition)</b>        |                                    |
|                                 |    | 67,793                     | +       | Total Assignable                         |          |                               |          | 33,632                   | + Total Assignable                       |                                    |
|                                 |    | 19,100                     | +       | Subtotal Non-Assignabla                  |          |                               |          | 11,313                   | + Subtotal Non-Assignabla                |                                    |
|                                 |    | <b>86,893</b>              | =       | <b>Net Usable Area</b>                   |          |                               |          | <b>44,945</b>            | = <b>Net Usable Area</b>                 |                                    |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

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| Bldg NO | Current Floor Area                              | Room NO | Use Code  | USE                               | FUNCTION | Program Area In Existing Bldg.                               | Room No. | Program Area In Addition | Proposed Program Description            | Exist'g Area Requiring Renovation |  |
|---------|---|---------|---|-----------------------------------|----------|--|----------|--------------------------|---|-----------------------------------|--|
|         | Gross Area                                      |         |   |                                   |          | Gross Area   |          |                          |   |                                   |  |
|         | 19,100  | +       |   | Heiges Total NON-ASF (existing)   |          | 21,759   |          |                          | + Heiges TOTAL NON-ASF (renovated)      |                                   |  |
|         | 67,793  | +       |   | Heiges Total ASF (existing)       |          | 64,675   |          |                          | + Heiges TOTAL ASF (renovated)          |                                   |  |
|         | 4,741   | +       |   | Heiges Structural Area (existing) |          | 5,209  |          |                          | + Heiges Structural Area                |                                   |  |
|         | 91,634  | =       |   | Heiges GROSS AREA, Sq Ft (exist.) |          | 91,634   |          |                          | = Heiges GROSS AREA, Sq Ft (exist.)     |                                   |  |
|         | Gross Area divided by Assignable equals         |         |   |                                   |          |  |          |                          |   |                                   |  |
|         | Gross Square Foot Factor (Existing Heiges)      |         |   |                                   |          | Gross Square Foot Factor (Renovated Area of Existing Heiges) |          |                          |   |                                   |  |
|         | 91,634  | =       | 1.35  | Existing Factor                   |          | 91,634   |          | 1.42                     | Renovated Area Factor                   |                                   |  |
|         | 67,793  |         |   |                                   |          | 64,675   |          |                          |   |                                   |  |
|         | Gross Area of Add. = 1.45 times Assignable Area |         |   |                                   |          |  |          |                          |   |                                   |  |
|         |   |         |   |                                   |          |  |          | 1.45                     | SSHE Standard Area Factor               |                                   |  |
|         |   |         |   |                                   |          |  |          | 33,632                   | x Assignable Area of Addition           |                                   |  |
|         |   |         |   |                                   |          |  |          | 48,766                   | = Gross Area of Add. (See Note 1 Below) |                                   |  |
|         | Structural Area                                 |         |   |                                   |          |  |          |                          |   |                                   |  |
|         |   |         |   |                                   |          |  |          | 48,766                   | + Gross Area                            |                                   |  |
|         |   |         |   |                                   |          |  |          | 44,945                   | - Net Usable Area                       |                                   |  |
|         |   |         |   |                                   |          |  |          | 3,821                    | = Structural Area                       |                                   |  |
|         | <b>Combined Building Areas</b>                  |         |   |                                   |          |  |          |                          |   |                                   |  |
|         |   |         |   |                                   |          |  |          | 33,072                   | + Total Non-Assignable                  |                                   |  |
|         |   |         |   |                                   |          |  |          | 98,307                   | + Total Assignable                      |                                   |  |
|         |   |         |   |                                   |          |  |          | 9,030                    | + Structural Area                       |                                   |  |
|         |   |         |   |                                   |          |  |          | 140,409                  | = Gross Area Combined                   |                                   |  |
|         | NOTES:  | 1       | NEW BUILDING GROSS AREA IS CALCULATED BY TAKING PROGRAMMED ASSIGNABLE AREA AND MULTIPLYING BY THE SSHE STANDARD FACTOR 1.45 |                                   |          |  |          |                          |   |                                   |  |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

DATE: 8/14/00  
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| Bldg<br>NO                      | Current Floor<br>Area    | Room<br>NO | Use Code                               | USE | FUNCTION | Program Area         |                      | Room No. | Program             |  | Proposed Program Description | Existing Area<br>Requiring<br>Renovation |
|---------------------------------|--------------------------|------------|--|-----|----------|----------------------|----------------------|----------|---------------------|--|------------------------------|--|
|                                 |                          |            |  |     |          | In Existing<br>Bldg. | Area In<br>Addition  |          | Area In<br>Addition |  |                              |  |
| <b>SUMMARY OF SPACE PROGRAM</b> |                          |            |  |     |          |                      |                      |          |                     |  |                              |  |
|                                 | <b>Existing Building</b> |            |  |     |          |                      |                      |          |                     |  |                              |  |
|                                 |                          |            | USE CODE                               |     |          |                      |                      |          |                     |  |                              | Combined<br>Use                          |
|                                 | Non- Assignable Area     |            |  |     |          |                      | Non- Assignable Area |          |                     |  |                              |  |
|                                 | 8,483                    | +          | 7W Total - Circulation                 |     |          |                      | 10,242               | +        | 6,909               | 7W Total - Circulation                 |                              | 17151                                    |
|                                 | 3,021                    | +          | 8X Total - Building Services           |     |          |                      | 4,756                | +        | 2,192               | 8X Total - Building Services           |                              | 694B                                     |
|                                 | 7,596                    | +          | 9Y Total - Mechanical Services         |     |          |                      | 7,458                | +        | 3,185               | 9Y Total - Mechanical Services         |                              | 10643                                    |
|                                 | 19,100                   | =          | SUBTOTAL NON-ASF (w/o Structural)      |     |          |                      | 22,456               | =        | 12,286              | SUBTOTAL NON-ASF (w/o Structural)      |                              | 34742                                    |
|                                 | 4,741                    | +          | ZZ Total - Structural                  |     |          |                      | 5,360                | +        | 3,434               | ZZ Total - Structural                  |                              | 8794                                     |
|                                 | 23,841                   | =          | TOTAL NON-ASF                          |     |          |                      | 27,816               | =        | 15,720              | TOTAL NON-ASF                          |                              | 43536                                    |
|                                 | Assignable Area          |            |  |     |          |                      | Assignable Area      |          |                     |  |                              |  |
|                                 | 2,388                    | +          | 100 Total - Classrooms                 |     |          |                      | 2,316                | +        | 0                   | 100 Total - Classrooms                 |                              | 2316                                     |
|                                 | 0                        | +          | 200 Total - Laboratory                 |     |          |                      | 1,120                | +        | 0                   | 200 Total - Laboratory                 |                              | 1120                                     |
|                                 | 3,708                    | +          | 300 Total - Office/Conference          |     |          |                      | 4,350                | +        | 6,087               | 300 Total - Office/Conference          |                              | 10437                                    |
|                                 | 59,641                   | +          | 520 Total - Athletic/Physical (Indoor) |     |          |                      | 53,946               | +        | 24,896              | 520 Total - Athletic/Physical (Indoor) |                              | 78842                                    |
|                                 | 2,056                    | +          | 540 Total - Clinic                     |     |          |                      | 0                    | +        | 2,500               | 540 Total - Clinic                     |                              | 2500                                     |
|                                 | 0                        | +          | 600 Total - Assembly                   |     |          |                      | 2,095                | +        | 1,450               | 600 Total - Assembly                   |                              | 3545                                     |
|                                 | 67,793                   | =          | TOTAL ASF                              |     |          |                      | 63,827               | =        | 34,933              | TOTAL ASF                              |                              | 98760                                    |
|                                 | Net Usable Area          |            |  |     |          |                      |                      |          |                     | Net Usable Area (Addition)             |                              |  |
|                                 | 67,793                   | +          | Total Assignable                       |     |          |                      |                      |          | 34,933              | + Total Assignable                     |                              |  |
|                                 | 19,100                   | +          | Subtotal Non-Assignable                |     |          |                      |                      |          | 12,286              | + Subtotal Non-Assignable              |                              |  |
|                                 | 86,893                   | =          | Net Usable Area                        |     |          |                      |                      |          | 47,219              | = Net Usable Area                      |                              |  |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM**

| Bldg NO | FL | Current Floor Area                              | Room NO | Use Code  | USE                               | FUNCTION | Program Area In Existing Bldg.                               | Room No. | Program Area In Addition            | Proposed Program Description            | Existing Area Requiring Renovation |  |
|---------|----|---|---------|---|-----------------------------------|----------|--|----------|-------------------------------------|---|------------------------------------|--|
|         |    | Gross Area                                      |         |   |                                   |          | Gross Area   |          |                                     |   |                                    |  |
|         |    | 19,100  | +       |   | Heiges Total NON-ASF (existing)   |          | 22,456   |          | + Heiges TOTAL NON-ASF (renovated)  |   |                                    |  |
|         |    | 67,793  | +       |   | Heiges Total ASF (existing)       |          | 63,827   |          | + Heiges Total ASF (renovated)      |   |                                    |  |
|         |    | 4,741   | +       |   | Heiges Structural Area (existing) |          | 5,360  |          | + Heiges Structural Area            |   |                                    |  |
|         |    | 91,634  | =       |   | Heiges GROSS AREA, Sq Ft (exist.) |          | 91,634   |          | = Heiges GROSS AREA, Sq Ft (exist.) |   |                                    |  |
|         |    | Gross Area divided by Assignable equals         |         |   |                                   |          |  |          |                                     |   |                                    |  |
|         |    | Gross Square Foot Factor (Existing Heiges)      |         |   |                                   |          | Gross Square Foot Factor (Renovated Area of Existing Heiges) |          |                                     |   |                                    |  |
|         |    | 91,634  | =       | 1.35  | Existing Factor                   |          | 91,634   |          | = 1.44                              | Renovated Area Factor                   |                                    |  |
|         |    | 67,793  |         |   |                                   |          | 63,827   |          |                                     |   |                                    |  |
|         |    | Gross Area of Add. = 1.45 times Assignable Area |         |   |                                   |          |  |          |                                     |   |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 1.45                                | SSHE Standard Area Factor               |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 34,933                              | x Assignable Area of Addition           |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 50,653                              | = Gross Area of Add. (See Note 1 Below) |                                    |  |
|         |    | Structural Area                                 |         |   |                                   |          |  |          |                                     |   |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 50,653                              | + Gross Area                            |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 47,219                              | - Net Usable Area                       |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 3,434                               | = Structural Area                       |                                    |  |
|         |    | <b>Combined Building Areas</b>                  |         |   |                                   |          |  |          |                                     |   |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 34,742                              | + Total Non-Assignable                  |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 98,760                              | + Total Assignable                      |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 8,794                               | + Structural Area                       |                                    |  |
|         |    |   |         |   |                                   |          |  |          | 142,296                             | = Gross Area Combined                   |                                    |  |
|         |    | NOTES:  | 1       | NEW BUILDING GROSS AREA IS CALCULATED BY TAKING PROGRAMMED ASSIGNABLE AREA AND MULTIPLYING BY THE SSHE STANDARD FACTOR 1.45 |                                   |          |  |          |                                     |   |                                    |  |



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SPACE PROGRAM

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| Bldg NO                         | Current Floor Area          | Room NO | Use Code                                 | USE | FUNCTION | Program Area in Existing Bldg | Room No. | Program Area in Addition               | Proposed Program Description             | Existing Area Requiring Renovation |
|---------------------------------|-----------------------------|---------|--|-----|----------|-------------------------------|----------|--|--|------------------------------------|
| <b>SUMMARY OF SPACE PROGRAM</b> |                             |         |  |     |          |                               |          |  |  |                                    |
| <b>Existing Building</b>        |                             |         |  |     |          |                               |          |  |  |                                    |
|                                 |                             |         | <b>USE CODE</b>                          |     |          |                               |          | <b>Existing Building with Addition</b> | <b>USE CODE</b>                          | <b>Combined Use</b>                |
|                                 | <b>Non- Assignable Area</b> |         |  |     |          | <b>Non- Assignable Area</b>   |          |  |  |                                    |
|                                 | 8,483                       |         | 7W Total - Circulation                   |     |          | 11,179                        |          | 8,793                                  | 7W Total - Circulation                   | 18,972                             |
|                                 | 3,021                       |         | 8X Total - Building Services             |     |          | 4,734                         |          | 3,350                                  | 8X Total - Building Services             | 8,064                              |
|                                 | 7,586                       |         | 9Y Total - Mechanical Services           |     |          | 7,548                         |          | 3,818                                  | 9Y Total - Mechanical Services           | 11,566                             |
|                                 | 19,100                      |         | <b>SUBTOTAL NON-ASF (w/o Structural)</b> |     |          | 23,461                        |          | 15,961                                 | <b>SUBTOTAL NON-ASF (w/o Structural)</b> | 39,422                             |
|                                 | 4,741                       |         | ZZ Total - Structural                    |     |          | 7,519                         |          | 2,075                                  | ZZ Total - Structural                    | 9,684                              |
|                                 | 23,841                      |         | <b>TOTAL NON-ASF</b>                     |     |          | 31,080                        |          | 18,036                                 | <b>TOTAL NON-ASF</b>                     | 49,116                             |
|                                 | <b>Assignable Area</b>      |         |  |     |          | <b>Assignable Area</b>        |          |  |  |                                    |
|                                 | 2,388                       |         | 100 Total - Classrooms                   |     |          | 0                             |          | 0                                      | 100 Total - Classrooms                   | 0                                  |
|                                 | 0                           |         | 200 Total - Laboratory                   |     |          | 0                             |          | 4,000                                  | 200 Total - Laboratory                   | 4,000                              |
|                                 | 3,708                       |         | 300 Total - Office/Conference            |     |          | 7,803                         |          | 2,862                                  | 300 Total - Office/Conference            | 10,665                             |
|                                 | 59,641                      |         | 520 Total - Athletic/Physical (Indoor)   |     |          | 50,898                        |          | 28,788                                 | 520 Total - Athletic/Physical (Indoor)   | 79,686                             |
|                                 | 2,056                       |         | 540 Total - Clinic                       |     |          | 0                             |          | 2,500                                  | 540 Total - Clinic                       | 2,500                              |
|                                 | 0                           |         | 600 Total - Assembly                     |     |          | 1,862                         |          | 1,930                                  | 600 Total - Assembly                     | 3,792                              |
|                                 | 67,793                      |         | <b>TOTAL ASF</b>                         |     |          | 60,563                        |          | 40,080                                 | <b>TOTAL ASF</b>                         | 100,643                            |
|                                 | <b>Net Usable Area</b>      |         |  |     |          |                               |          | <b>Net Usable Area (Addition)</b>      |  |                                    |
|                                 | 67,793                      |         | Total Assignable                         |     |          |                               |          | 40,080                                 | + Total Assignable                       |                                    |
|                                 | 19,100                      |         | Total Non-Assignable                     |     |          |                               |          | 15,961                                 | + Total Non-Assignable                   |                                    |
|                                 | 86,893                      |         | Net Usable Area                          |     |          |                               |          | 56,041                                 | = Net Usable Area                        |                                    |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM**

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| Bldg NO | FL | Current Floor Area                              | Room NO   | USE                               | FUNCTION        | Program Area in Existing Bldg.                               | Room No. | Program Area in Addition           | Proposed Program Description            | Existing Area Requiring Renovation |  |
|---------|----|---|---|-----------------------------------|-----------------|--|----------|------------------------------------|---|------------------------------------|--|
|         |    | Gross Area                                      |   |                                   |                 | Gross Area   |          |                                    |   |                                    |  |
|         |    | 19,100  | +   | Heiges Total NON-ASF (existing)   |                 | 23,461   |          | + Heiges TOTAL NON-ASF (renovated) |   |                                    |  |
|         |    | 67,793  | +   | Heiges Total ASF (existing)       |                 | 60,563   |          | + Heiges Total ASF (renovated)     |   |                                    |  |
|         |    | 4,741   | +   | Heiges Structural Area (existing) |                 | 7,619  |          | + Heiges Structural Area           |   |                                    |  |
|         |    | 91,634  | =   | Heiges GROSS AREA, sq ft (total)  |                 | 91,634   |          | = Heiges GROSS AREA, sq ft (total) |   |                                    |  |
|         |    | Gross Area divided by Assignable equals         |   |                                   |                 |  |          |                                    |   |                                    |  |
|         |    | Gross Square Foot Factor (Existing Heiges)      |   |                                   |                 | Gross Square Foot Factor (Renovated Area of Existing Heiges) |          |                                    |   |                                    |  |
|         |    | 91,634  | =   | 1.35                              | Existing Factor | 91,634   | =        | 1.51                               | Renovated Area Factor                   |                                    |  |
|         |    | 67,793  |   |                                   |                 | 60,563   |          |                                    |   |                                    |  |
|         |    | Gross Area of Add. = 1.45 times Assignable Area |   |                                   |                 |  |          |                                    |   |                                    |  |
|         |    |   |   |                                   |                 |  |          | 1.45                               | SSHE Standard Area Factor               |                                    |  |
|         |    |   |   |                                   |                 |  |          | 40,080                             | X Assignable Area of Addition           |                                    |  |
|         |    |   |   |                                   |                 |  |          | 59,116                             | = Gross Area of Add. (See Note 1 Below) |                                    |  |
|         |    | Structural Area                                 |   |                                   |                 |  |          |                                    |   |                                    |  |
|         |    |   |   |                                   |                 |  |          | 58,116                             | + Gross Area                            |                                    |  |
|         |    |   |   |                                   |                 |  |          | 56,041                             | - Net Usable Area                       |                                    |  |
|         |    |   |   |                                   |                 |  |          | 2,075                              | = Structural Area                       |                                    |  |
|         |    | <b>Combined Building Areas</b>                  |   |                                   |                 |  |          |                                    |   |                                    |  |
|         |    |   |   |                                   |                 |  |          | 39,422                             | + Total Non-Assignnable                 |                                    |  |
|         |    |   |   |                                   |                 |  |          | 100,643                            | + Total Assignnable                     |                                    |  |
|         |    |   |   |                                   |                 |  |          | 9,694                              | + Structural Area                       |                                    |  |
|         |    |   |   |                                   |                 |  |          | 149,759                            | = Gross Area Combined                   |                                    |  |
|         |    | NOTES:  |   |                                   |                 |  |          |                                    |   |                                    |  |
|         |    | 1   | NEW BUILDING GROSS AREA IS CALCULATED BY TAKING PROGRAMMED ASSIGNABLE AREA AND MULTIPLYING BY THE SSHE STANDARD FACTOR 1.45 |                                   |                 |  |          |                                    |   |                                    |  |

**APPENDICES**

**APPENDIX A**

- A.1 REFERENCES**
- A.2 OUTLINE OF ROOM USE CODES**
- A.3 SSHE DEFINITIONS OF SPACE AND FUNTIONAL REQUIREMENTS**

APPENDIX A1: REFERENCES

The following references were consulted to identify standards for specific space and programming requirements of this study:

De Chiara, John, and John Hancock Callender, eds. Time-Saver Standards for Building Types. - 2nd edition. New York: McGraw-Hill, Inc., 1980.

De Chiara, John, and Julius Panero and Martin Zelnik. Time-Saver Standards for Interior Design and Space Planning. New York: McGraw-Hill, Inc., 1991.

Hoke, John Ray, Jr., ed. Ramsey/Sleeper Architectural Graphic Standards. - 9th edition. New York: John Wiley & Sons, Inc., 1994.

Kumlin, Robert R. Architectural Programming : Creative Techniques for Design Professionals. New York: McGraw-Hill, Inc., 1995.

1998 NCAA Swimming and Diving : Men's and Women's Rules.

Sports Recreation & Community Centers: 1996 State of the Art Slice Presentation, The American Institute of Architects.

Ferguson, John H., ed. RS Means Square Foot Costs, 21st edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

Ferguson, John H., ed. RS Means Building Construction Cost Data, 58th edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

Ferguson, John H., ed. RS Means Repair and Remodeling Cost Data, 21st edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

Ferguson, John H., ed. RS Means Interior Cost Data, 17th edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

Ferguson, John H., ed. RS Means Site Work and Landscape Cost Data, 19th edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

Ferguson, John H., ed. RS Means Assemblies Cost Data, 25th edition, 2000. Massachusetts: R. S. Means Company, Inc., 1999.

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENIX A2: OUTLINE OF ROOM USE CODES**

|     |   |     |  |
|-----|---|-----|--|
| 100 | Classroom Facilities                          | 500 | Special Use Facilities                 |
|     | 110 Classroom                                 | 510 | Armory                                 |
|     | 115 Classroom Services                        | 515 | Armory Service                         |
|     |   | 520 | Athletic or Physical Education         |
|     |   | 523 | Athletic Facilities Spectator Seating  |
| 200 | Laboratory Facilities                         | 525 | Athletic or Physical Education Service |
|     | 210 Classroom Laboratory Service              | 530 | Media Production                       |
|     | 220 Open Laboratory                           | 535 | Media Production Service               |
|     | 225 Open Laboratory Service                   | 540 | Clinic                                 |
|     | 250 Research/Non-Class Laboratory             | 545 | Clinic Service                         |
|     | 255 Research/Non-Class Laboratory Service     | 550 | Demonstration                          |
|     |   | 555 | Demonstration Service                  |
|     |   | 575 | 560                                    |
| 300 | Office Facilities                             | 575 | 570                                    |
|     | 305 Faculty Office                            | 575 | Animal Quarters Service                |
|     | 310 Faculty Office Service                    | 580 | Greenhouse                             |
|     | 315 Administrative Office                     | 585 | Greenhouse Service                     |
|     | 320 Administrative Office Service             | 590 | Other (All Purpose)                    |
|     | 325 Clerical Office                           |     |  |
|     | 330 Clerical Office Service                   |     |  |
|     | 335 Graduate Student Assistant Office         | 600 | General Use Facilities                 |
|     | 340 Graduate Student Assistant Office Service | 610 | Assembly                               |
|     | 345 Teaching Assistant Office                 | 615 | Assembly Service                       |
|     | 350 Teaching Assistant Office Service         | 620 | Exhibition                             |
|     | 355 Student Activities Office                 | 625 | Exhibition Service                     |
|     | 360 Student Activities Office Service         | 630 | Food Facility                          |
|     |   | 635 | Food Facility Service                  |
|     | Conference Room Facilities                    | 640 | Day Care                               |
|     | 365 Conference Room                           | 645 | Day Care Service                       |
|     | 370 Conference Room Service                   | 650 | Lounge                                 |
|     |   | 655 | Lounge Service                         |
| 400 | Study Facilities                              | 660 | Merchandising                          |
|     | 410 Study Room                                | 665 | Merchandising Service                  |
|     | 420 Stack                                     | 670 | Recreation                             |
|     | 430 Open-Stack Study Room                     | 675 | Recreation Service                     |
|     | 440 Processing Room                           | 680 | Meeting Room                           |
|     | 450 Study Service                             | 685 | Meeting Room Service                   |
|     |   | 690 | Locker Room                            |

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

APPENDIX A2: OUTLINE OF ROOM USE CODES

|     |  |                                 |  |
|-----|--|---------------------------------|--|
| 700 | Support Facilities                             | 900                             | Residential Facilities (Continued)       |
| 710 | Central Computer or Telecommunications         | 919                             | Toilet or Bath                           |
| 715 | Central Computer or Telecommunications Service | 920                             | Sleep/Study with Toilet or Bath          |
| 720 | Shop   | 935                             | Sleep/Study Service                      |
| 725 | Shop Service                                   | 950                             | Apartment                                |
| 730 | Central Storage                                | 955                             | Apartment Service                        |
| 735 | Central Storage Service                        | 970                             | House                                    |
| 740 | Vehicle Storage                                |                                 |  |
| 745 | Vehicle Storage Service                        | 000                             | Unclassified Facilities                  |
| 750 | Central Service                                | 050                             | Inactive Area                            |
| 755 | Central Service Support                        | 060                             | Alteration or Conversion Area            |
| 760 | Hazardous Materials                            | 070                             | Unfinished Area                          |
| 765 | Hazardous Materials Service                    |                                 |  |
| 770 | Utility Protection                             |                                 |  |
|     |  | <hr/>                           |  |
|     |  | Non-Assignable Area Definitions |  |
| 800 | Health Care Facilities                         | 7W                              | Circulation                              |
| 810 | Patient Bedroom                                | 71                              | Corridor                                 |
| 815 | Patient Bedroom Service                        | 72                              | Stairwell                                |
| 820 | Patient Bath                                   | 73                              | Elevator                                 |
| 830 | Nurse Station                                  | 74                              | Vestibule                                |
| 835 | Nurse Station Service                          |                                 |  |
| 840 | Surgery  | 8X                              | Building Systems                         |
| 845 | Surgery Service                                | 81                              | Restroom, Male                           |
| 850 | Treatment/Examination                          | 82                              | Restroom, Female                         |
| 855 | Treatment/Examination Service                  |                                 |  |
| 860 | Diagnostic Service Laboratory                  | 83                              | Restroom, Unisex                         |
| 860 | Diagnostic Service Laboratory Service          | 84                              | Custodial                                |
| 870 | Central Supplies                               | 85                              | Maintenance Storage (unique to building) |
| 880 | Public Waiting                                 |                                 |  |
| 890 | Staff On-Call Facility                         | 9Y                              | Mechanical                               |
| 895 | Staff On-Call Facility Service                 | 91                              | Electrical                               |
|     |  | 92                              | Machine                                  |
| 900 | Residential Facilities                         | 93                              | Elevator                                 |
| 910 | Sleep/Study Without Toilet or Bath             | 94                              | Telecommunications                       |
|     |  |                                 |  |
|     |  | ZZZ                             | Structural                               |

**APPENDIX A.3: SSHE DEFINITION OF SPACE AND FUNCTIONAL  
REQUIREMENTS**

**520A - Athletic or Physical Education - Interior**

**Definition:** A room or interior area used by students, staff or the public for athletic or physical education activities.

**Description:** Includes gymnasias, basketball courts, handball courts, squash courts, wrestling rooms, weight or exercise rooms, racquetball courts, indoor swimming pools, indoor putting areas, indoor ice rinks, indoor tracks, indoor stadium fields and field houses. This category includes rooms used to teach dancing and bowling only if they are part of the physical education instruction program.

**Limitations:** This room use code does not distinguish instructional from intercollegiate, intramural, or recreational use of these areas. Additional classification through function and academic codes makes this distinction.

Classroom facilities (100 series), Laboratory facilities (200 series), Office Facilities (300 series) and other primary room use categories are coded as such, even though these areas may be located in an athletic or physical education building. Permanent spectator seating areas associated with interior athletic facilities are coded 520B. Outdoor athletic areas, such as outdoor tennis and basketball courts, and other outdoor fields, do not meet with definition of buildings and, therefore, are not assignable area. Recreational or amusement areas such as billiard rooms, game or arcade rooms, bowling alleys, table tennis rooms, ballrooms, chess and card playing rooms, and lobby and music listening areas are classified Recreation (670), if they are not used for instructional purposes.

**520B - Athletic Facilities Spectator Seating - Interior**

**Definition:** The seating area inside an athletic facility used by students staff, or the public to watch athletic events.

**Description:** Includes indoor permanent or fixed seating areas in gymnasias, field house arenas, natatoria or other areas used for intercollegiate competition.

**Limitations:** Does not include temporary or movable seating areas (e.g., transportable bleachers), but does include the footprint of permanently installed indoor telescoping bleachers in the closed position.

**520C - Athletic or Physical Education Service - Interior**



**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**Definition:** A room or interior area that directly serves an athletic or physical education facility as an extension of the activities in that facility.

**Description:** Includes locker rooms; shower rooms; non-office coach's rooms; ticket booths; and rooms for dressing, equipment, supply, storage, first-aid, towels, etc.

**Limitations:** Does not include public rest rooms, which should be classified as non-assignable building service space. Rooms, which directly serve offices, class rooms, laboratories, etc., are classified with the appropriate corresponding service code. Cashiers' desks serving recreation facilities (see 670) are classified Recreation Service (675). Central ticket outlets serving multiple facilities or services are classified as Merchandising (660).

**523 - Stadium Seating**

**Definition:** The seating area used by student staff, or the public to watch athletic events.

**Description:** Includes permanent or fixed seating areas in an outdoor stadium or other outdoor athletic areas.

**Limitations:** Does not include temporary or movable seating areas (e.g., transportable bleachers). Outdoor permanent seating is not assignable space although it may contain assignable areas under it (e.g., locker rooms, offices, etc.).

**525 - Outdoor Athletic**

**Definition:** Assignable space under permanent bleachers in an outdoor stadium that directly serves athletic activity in that facility.

**Description:** Includes locker rooms; shower rooms; non-office coach's rooms; ticket booths; and rooms for dressing, equipment, supply, storage, first-aid, towels, etc.

**Limitations:** Does not include public rest rooms, which should be classified as non-assignable building service space. Rooms, which directly serve offices, classrooms, laboratories, etc., are classified with the appropriate corresponding service code. Cashiers' desks serving recreation facilities (see 670) are classified Recreation Service (675). Central ticket outlets serving multiple facilities or services are classified as Merchandising. (660).

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX B**

**PERSONS CONTACTED**

**APPENDIX B: PERSONS CONTACTED**

**University Faculty & Staff:**

|                            |   |
|----------------------------|---|
| Dr. Robert Bartos          | SU, Dean, College of Education and Human Services |
| Mr. Lance Bryson, PE, AICP | SU, Director of Facilities Mgmt & Planning        |
| Dr. Kent Chrisman          | SU, Director of Rowland School                    |
| Mr. Paul Dempsey           | SU, Registrar & Dean of Graduate Studies          |
| Mr. Terry Durbin, PE, CCE  | SU, Associate Dir. for Planning & Engineering     |
| Dr. Joanne Fenton          | SU, Provost and Acting President                  |
| Ms. Jane Goss              | SU, Associate Director of Athletics               |
| Dr. Jody Harpster          | SU, Vice President for Student Affairs            |
| Mr. Paul Kaiser            | SU, Director of Conferences                       |
| Lt. Col. Rick Kerr         | SU, Army ROTC                                     |
| Mr. Tim McFeely            | SU, Director of Cumberland Union Building         |
| Dr. Sally McGrath          | SU, Chair, Dept. Health and Physical Education    |
| Mr. Galen Piper            | SU, Director of Recreation                        |
| Dr. James G. Pribula       | SU, Director of Athletics                         |
| Dr. Rick E. Ruth           | SU, Associate Provost                             |

**Student Representatives:**

|                         |                                    |
|-------------------------|------------------------------------|
| Ms. Denise A. Hettinger | SU, President, Student Association |
|-------------------------|------------------------------------|

**Facilities Management Staff:**

|                        |  |
|------------------------|--|
| Mr. Rafael Cuesta      | SU, Power Plant - Electronics              |
| Mr. Tommy G. Everett   | SU, Operations Manager, Heiges Field House |
| Mr. Wayne Hershey, Sr. | SU, A.C. Shop                              |
| Mr. Harold Johnson     | SU, Steam Plant                            |
| Mr. Wesley Neghey      | SU, Plumbing Shop                          |
| Mr. Barry Negley       | SU, Maintenance Repair Staff               |
| Mr. Kevin Oakes        | SU, Electrical Shop                        |

**APPENDIX C**  
**MEETING MINUTES**

# ENTECH

Principals:  
Daniel J. Castellani, PE  
Thomas M. McMahon, PE  
William M. McMahon Jr., PE

## MEETING MINUTES NO. 1

*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184.02

*Meeting Date:* Thursday, January 15, 1998, 10 a.m.

*Minutes Issue Date:* January 28, 1998

*Location:* President's Office Conference Room

*Attendees:*

|                        |   |   |
|------------------------|---|---|
| Dr. Joanne Fenton      | - | SU, Provost and Acting President              |
| Dr. Rick E. Ruth       | - | SU, Associate Provost                         |
| Dr. Jody Harpster      | - | SU, Vice President for Student Affairs        |
| Dr. James Pribula      | - | SU, Director of Athletics                     |
| Lance Bryson, PE, AICP | - | SU, Director of Facilities Mgmt & Planning    |
| Terry Durbin, PE, CCE  | - | SU, Associate Dir. for Planning & Engineering |
| Jeffery C. Euclide, PE | - | Entech Engineering, Inc., Vice President      |
| David M. Settle, AIA   | - | Entech Engineering, Inc., Senior Architect    |

*Distribution:* Attendees  
File

Items Discussed:

1.1 Mr. Bryson introduced all parties attending the meeting and provided an overview of the project and the planning tasks which are to take place.

1.2 Dr. Fenton indicated that as Acting President, she is not fully aware of President Ceddia's desires and goals for the expansion and alterations to the Heiges Field House. While Dr. Ceddia is away on sabbatical leave, Dr. Fenton will try to guide the project to be consistent with the University's overall goals for development.



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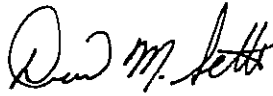
Fax 610.373.7537

- 1.3 Mr. Settle briefly described the planning process which the feasibility study will follow.
- 1.4 Mr. Durbin indicated the project is on an aggressive schedule, stating that the critical decision-making meeting where alternative planning concepts are to be presented should be five weeks from this meeting, approximately February 19. No specific date was established. Finalization of the study would allow the report to be presented to the Board of Trustees at their regularly scheduled meeting on March 20.
- 1.5 Mr. Settle restated the primary goal of the project as "to consolidate campus physical education facilities in a single zone in the vicinity of Heiges Field House and Seth Grove Stadium."
- 1.6 Major objectives of the project were discussed and include the following:
  - a. Improve SU compliance with Title IX Gender Equity requirements.
  - b. Provide space for functions which are being transferred from Henderson Hall, which will become a future Student Services Center.
  - c. Provide adequate office space for athletic coaches.
  - d. Provide adequate space for athletic and special events.
- 1.7 Mr Bryson restated the desire to utilize the existing Faculty Office Building for support of the space needs of the athletic department. As part of the feasibility study, Entech should examine the value of relocation the existing structure and incorporating it into the overall solution to the space needs. The University would benefit by its relocation since new capital dollars would not have to be expended to construct equivalent space. The cost of relocating the structure would be addressed using direct University operating funds.
- 1.8 Any expansion to the Field House must integrate with the University's Master Plan and specifically with the planned adjacent Instructional and Performing Arts Facility now planned for that area of campus.
- 1.9 Dr. Ruth stated that the instructional mission of the facility is its most critical mission. The academics of physical and health education are primary to the facility.
- 1.10 Dr. Harpster stated that a large use of the Field House is for student recreational activities. Any expansion must address the University's desire to provide expanded recreational spaces. Although many of the facilities may be shared, there is currently a scheduling problem between free time recreation, intramural activities and intercollegiate athletics.

- 1.11 Consideration should be given to the possibility that a separate student activity and recreation facility should be constructed. The University's Master Plan conceptualizes a separate and distinct facility for students to be located at the end of the Seth Grove Stadium Complex. If a separate facility were considered, it would have to be separately funded by a student fee. If separate student activities areas were incorporated into the Heiges Field House, they would also have to be separately funded from the rest of the building.
- 1.12 Planning for the facility should include provisions for change and have technical access in mind.
- 1.13 Dr. Pribula requested that the current arena be upgraded to contemporary standards. There is currently a sound problem in the arena. Budgets for alterations should include solutions which address sound problems. The arena is used for many diverse functions which have varied acoustic requirements.
- 1.14 In response to questions as to the level and quality of construction for the facility, Dr. Fenton suggested that the new facility be modest and functional as well as aesthetically blend with the campus with respect to construction materials.
- 1.15 The consolidated athletic and physical education facilities should address the following objectives.
  - a. Provide an appropriately sized laundry facility.
  - b. All types of storage are undersized in the facility.
  - c. The concession area, which was not addressed in the original design, must be better designed with functionality and storage in mind.
  - d. Waterpolo as a sport should be addressed.
  - e. The current swimming pool does not have proper competitive starting blocks. Appropriate solutions or alternatives to this problem should be investigated.
  - f. Consideration should be given to a dedicated recreational pool.
  - g. Facilities for visiting team members are currently extremely limited and often require use of the women's locker room. Therefore, no simultaneous activities can occur.
  - h. Locker room security is a significant concern, especially the current women's locker room because of an exterior exit stair door.
  - i. The arena is used for a multitude of events ranging from the usual sporting events to musical concerts, speakers, fund raising banquets, and many more.
- 1.16 Dr. Pribula pointed out that the original Heiges Field House was built as a men's facility. Therefore, the accommodations for women are below equity standards.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



David M. Settle, AIA  
Project Manager

/nsm

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Principals:  
 Daniel J. Castellani, PE  
 Thomas M. McMahon, PE  
 William M. McMahon Jr., PE

**MEETING MINUTES NO. 2**

---

*Project:* Shippensburg University  
 SU-711 Heiges Field House Addition Study  
 Contract 600216 - Work Order #97-1  
 Entech #2184.02

*Meeting Date:* Thursday, January 15, 1998 at 11 a.m.

*Minutes Issue Date:* January 28, 1998

*Location:* Old Main, Room 203B

*Attendees:*

|                         |  |              |
|-------------------------|--|--------------|
| Mr. Paul Kaiser         | SU, Director of Conferences .....                    | 717-532-1256 |
| Ms. Jane Goss           | SU, Associate Director of Athletics .....            | 717-532-1541 |
| Mr. Tim McFeely         | SU, Director of Cumberland Union Building .....      | 717-532-1560 |
|                         | temcfe@ark.edu                                       |              |
| Mr. Paul Dempsey        | SU, Registrar & Asst. Dean, Graduate School .....    | 717-532-1213 |
|                         | pdfemp@ship.edu                                      |              |
| Dr. Kent Chrisman       | SU, Director of Rowland School .....                 | 717-532-1612 |
|                         | jkchri@ark.ship.edu                                  |              |
| Dr. Sally McGrath       | SU, Chair, Dept. Health and Physical Education ..... | 717-532-1721 |
|                         | smmcgr@ship.edu                                      |              |
| Lt. Col. Rick Kerr      | SU, Army ROTC .....                                  | x3270        |
|                         | referr@ark.ship.edu                                  |              |
| Dr. Robert Bartos       | SU, Dean, College of Ed. and Human Services .....    | 717-532-1373 |
|                         | rbbart@ark.ship.edu                                  |              |
| Dr. Rick E. Ruth        | SU, Associate Provost .....                          | 717-532-1371 |
|                         | rer@ark.ship.edu                                     |              |
| Dr. Jody Harpster       | SU, Vice President for Student Affairs               |              |
| Dr. James Pribula       | SU, Director of Athletics .....                      | 717-532-1711 |
| Mr. Dennis Hettinger    | SU, Student Association President .....              | 717-532-1651 |
|                         | dh8409@ark.ship.edu                                  |              |
| Mr. Lance Bryson, PE    | SU, Director of Facilities Mgmt & Planning .....     | 717-532-1814 |
|                         | jlbrys@wharf.ship.edu                                |              |
| Mr. Terrence Durbin, PE | SU, Associate Dir. for Planning & Eng. ....          | 717-532-1451 |
|                         | tedurb@wharf.ship.edu                                |              |
| Mr. Jeffery Euclide, PE | Entech Engineering, Inc., Vice President .....       | 610-373 6667 |
|                         | jeuclide@entecheng.novell.net                        |              |
| Mr. David Settle, AIA   | Entech Engineering, Inc., Sr. Architect .....        | 610 373 6667 |
|                         | dsettle@entecheng.novell.net                         |              |



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*Distribution:* Attendees  
 Dr. Joanne Fenton, SU Provost and Acting President

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 Meeting Minutes #2

Thursday, January 15

Page 1

Items Discussed:

- 2.1 Mr. Bryson made introductions and addressed the purpose of the meeting
- 2.2 Each SU representative had an opportunity to present their current use and future needs for the Heiges Field House. This general overview provided Entech with an understanding of the current use conditions and the future goals of the facility.
- 2.3 Key areas for improvement which will affect all uses of the facility are as follows:
  - a. Shortage of rest rooms for public use during special events.
  - b. Shortage of locker space, especially for women.
  - c. The Arena area is not available to enough groups at the right time.
  - d. General student access to the facilities is limited for recreational activities.
  - e. Shortage of office space.
  - f. Shortage of storage space.
- 2.4 Due to the size of this group, it was agreed that smaller group interviews would have to be conducted to get the specific needs of each stack holder. Meetings were scheduled for Wednesday, January 21.
- 2.5 After further general discussion, the meeting adjourned. After the meeting Mr. Settle and Mr. Durbin toured the Heiges Field House.

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



David M. Settle, AIA  
Project Manager

/nsm

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Principals:  
Daniel J. Castellani, PE  
Thomas M. McMahon, PE  
William M. McMahon Jr., PE

**MEETING MINUTES NO. 3**

---

*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184.02

*Meeting Date:* January 21, 1998 at 9 a.m.

*Minutes Issue Date:* February 3, 1998

*Location:* Reese Hall

*Attendees:*

|                        |   |
|------------------------|---|
| Rafael Cuesta          | SU, Power Plant - Electronics                       |
| Terrence E. Durbin, PE | SU, Associate Director for Planning and Engineering |
| Tommy G. Everett       | SU, Operations Manager, Heiges Field House          |
| Wayne Hershey, Sr.     | SU, A.C. Shop                                       |
| Harold Johnson         | SU, Steam Plant                                     |
| Wesley Neghey          | SU, Plumbing Shop                                   |
| Barry Negley           | SU, Maintenance Repair Staff                        |
| Kevin Oakes            | SU, Electrical Shop                                 |
| David M. Settle, AIA   | Entech Engineering, Inc.                            |
| Jeanne Hutchinson      | Entech Engineering, Inc.                            |

*Distribution:*

Attendees  
Dr. Joanne Fenton, SU, Provost and Acting President  
Lance Bryson, PE, AICP, SU, Director of Facilities Mgmt & Planning

---

Overview:

This meeting with the Facilities and Maintenance staff focused on the current status of Heiges Field House and related support systems. The intent was to identify, by specific area, major issues the feasibility study should address related to expanding the current usage and functions of Heiges Field House.



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Meeting Minutes #3

January 21, 1998

Heiges Field House was originally built as a men's only facility, with Henderson Hall as the women's equivalent. Title IX - Gender Equity mandates certain changes to Heiges. The current master plan recommends the consolidation of all athletic and Health and Physical Education functions into an area adjacent to the field house and current stadium. This means moving all women's athletic, Health and Physical Education functions from Henderson Hall to Heiges Field House or other facilities that will satisfy the master plan recommendations. Then Henderson Hall can be renovated to meet student service needs. In addition, the Facilities Office Building is to be considered for relocation and re-use in the consolidation of the men's and women's functions per the master plan.

Items Discussed:

- 3.1 The consensus was that Heiges Field House is at, and in some cases over, capacity of its mechanical systems. This is due to increased functional requirements placed on the building over the years plus past renovations and additions that did not add increased mechanical capability to the current support systems.
- 3.2 Current mechanical room space is inadequate for current systems' needs and has no room for system expansion. In addition, many of these rooms are used for equipment storage and this usage impairs staff's ability to maintain adequate access to mechanical systems and proper system operations as well as creating a potential fire hazard.  
  
**ACTION:** Space plan must include increased mechanical room space for current and new equipment needs.
- 3.3 Water and waste systems are already at capacity. Even without additional square footage, this building has inadequate water services, lacking in both quantity and location within the building.
- 3.4 Roof systems have no current problems. The arena's roof was replaced a few years ago with a new rubber roof (on plywood) when leakage problems were resolved. Deterioration in the laminated beams was also addressed at that time. Tie rods diagonally across major beams were also added. Flat roof systems were replaced over office and other areas and no new problems are anticipated. However it is only prudent to include the cost of new roofing systems in any scope of work for this building.

**ACTION:** Include roof replacement for existing structures in the scope of work for any addition to Heiges Field House.

- 3.5 The four main beams for the arena roof are exposed at ground level. These beams have inadequate water run-off and waterproofing systems. This inadequacy needs to be addressed in order to prolong the life of these structural members.
- 3.6 Doors and windows of the enclosure are intact and seem adequate, not requiring any work at this time.
- 3.7 In the last few years, the arena has been updated with new lighting, new bleachers and a new resilient floor.
- 3.8 Swimming Pool Issues:
- It is not currently regulation depth at the shallow end. Since the pool does not meet the 48" minimum depth, starting blocks have been removed. In addition there is a bulkhead at the deep end that is being used for starts and hand holds for competitive events.
  - Due to the relocation of the starting point, the electronic display board must now be relocated to the deep end of the pool.
  - New bleachers are needed.
  - Underwater lighting needs to be repaired/replaced.
  - Ventilation needs to be improved.
- 3.9 Current electrical service provides for emergency lighting in the arena area. The status of switching gear and available capability for increased electrical service is unknown and needs to be verified.
- ACTION:** Review building codes for emergency lighting requirements. Verify capacity of current electrical service and amount of available capacity, if any.
- 3.10 If electrical wiring requires replacement, Kevin Oakes requested electronic ballast lights be used.
- 3.11 The current clock system is expected to be adequate to handle future additions.
- 3.12 The fire alarm system, based on installation date, will most likely need modification to meet current ADA and building code requirements.

- 3.13 Restrooms are currently inadequate for any kind of special or large event. Depending upon the event, location of these restrooms is an issue; however, there are not enough restrooms.
- 3.14 Electronic systems currently are housed in a shared storage area. The needs have grown and will require at least twice the current space in order to store, repair, and deploy the electronics equipment used in this building. This includes sound systems, scoreboards, and more.
- 3.15 Storage space is inadequate and as a result, mechanical rooms and small classrooms are currently used as well. The variety of events scheduled in this building have increased storage needs beyond the basic equipment originally planned.
- 3.16 The main steam plant on campus is currently at capacity of the 3 boiler system, with a poor quality 4th boiler as back-up. Heiges is currently served by the steam plant, but any new construction cannot rely on increased service. The output of the current steam plant for a mild day, January 17, 1998, with a high of 16° F and a low of 4° F, was 60,000 lbs of high steam. Any new addition will need to include new systems for heating needs.

Current steam system goes to a converter for hot water heat generation. Gas is used to heat hot water for domestic usage and to heat the pool.

- 3.17 Current air handlers and dampers will most likely need replacement.

**ACTION:** Verify state of mechanical systems and what will need to be replaced.

- 3.18 Grove Stadium Issues:

- Athletic department has limited laundry facilities in Grove Stadium.
- Maintenance staff would like to see Grove Stadium winterized for use year round. This facility was not built to be used year round; however, two boilers have been added for hot air heat to extend the use of the building into the colder weather. The water lines are drained every year after the Turkey Bowl (a football game held after Thanksgiving each year.)
- A visiting team locker room needs to be added in addition to the medical room that is there now.

- 3.19 Air conditioner/chiller is in poor shape. After the last maintenance shutdown, parts are difficult to get. In addition, this current system supplies only the offices and classrooms, but if switched to the arena, it can only cool the area on a mild day. It is not adequate for commencement activities should it be needed. A new system needs to be addressed and should include the arena due to its increased usage beyond athletic events. It was recommended by university staff that an exterior air cooled chiller, sized to support the arena as well, be considered.
- 3.20 Squash/racquetball Courts:
- Current ventilation is inadequate.
  - Waterproofing is an issue. Some courts are below the water table and current underground ventilation ducts fill with water. Only the sump pump saves them. Floors have been replaced once already but something needs to be done.
- 3.21 Traffic flow around the arena during events is an issue. It needs to be improved.

END OF MINUTES

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



David M. Settle, AIA  
Project Manager

/nsm

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# ENTECH

Principals:  
Daniel J. Castellani, PE  
Thomas M. McMahon, PE  
William M. McMahon Jr., PE

## MEETING MINUTES NO. 4

*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184,02

*Meeting Date:* January 21, 1998 at 10:30 a.m.

*Minutes Issue Date:* February 3, 1998

*Location:* Heiges Field House

*Attendees:*  
Tim McFeely SU, Director of Cumberland Union Building  
Denise A. Hettinger SU, President, Student Association  
David M. Settle, AIA Entech Engineering, Inc.  
Jeanne Hutchinson Entech Engineering, Inc.

*Distribution:*  
Attendees  
Dr. Joanne Fenton, SU, Provost and Acting President  
Lance Bryson, PE, AICP, SU, Director of Facilities Mgmt & Planning  
Terrence E. Durbin, PE, SU, Associate Dir. for Planning & Engineering

### Overview:

Over the years the arena in Heiges Field House has been used for an increasing variety of activities, ranging from the athletic events it was planned to accommodate to concerts, lectures, banquets and commencement. Current seating capacity is 4,000 with the bleachers fully extended. Other events accommodate from 2,500-3,500 spectators. The best acoustics are achieved when seating is placed bleacher-to-bleacher with the stage at one set of closed bleachers. There is a 3.5 second delay in the current acoustical quality of the facility, and the acoustic panels in place are inadequate.

Additional events have placed increased needs on this facility. Any additions or renovations need to include the broader usage of this building, including storage and services.



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Items Discussed:

- 4.1 The acoustics are terrible for any use other than athletic events. Anything would be an improvement.
- 4.2 Currently there is no "holding" space at the end most frequently used during concerts. At least three dressing rooms (with shower and toilet) are needed for concert performers. On occasions an RV is rented to provide adequate dressing space for performers.
- 4.3 Easy access to the building, particularly the arena floor, is needed for stage set up and equipment relocation. Ideally a loading dock for tractor trailers with a dock leveler for step vans is needed.
- 4.4 Storage needs seriously exceed what is available. Stage equipment, folding chairs, sound equipment, catering tables, etc. need to be accessible. A second stage platform, 48 inches high, is desired to better meet concert needs and will also require storage. The new stage should include sound wings at each side.
- 4.5 The electrical service necessary for concerts and many of the additional events held in the arena includes lights and sound systems. Currently only 200 amp 3-phase service is available and that only handles sound requirements. A generator is rented for each concert or event requiring extensive lighting systems. At least a 400 amp 3-phase service is needed for lighting systems while a 600 amp 3-phase service would be even better.
- 4.6 Restrooms cannot handle even the athletic crowds. Current restrooms are too small and not located close enough to the arena to be useful during major events.
- 4.7 Recreational use of a gym facility is an issue with the planned change in use of Henderson Hall. By moving women's sports to Heiges, it is expected that the arena would be over-scheduled. It is critical that a gym be available for student as well as class use. It was suggested that a minimum of a four-court gymnasium floor area be required, with the suggestion that the court sizes be smaller than regulation basketball requires in order to support lower priority use of a second gym. With four courts, two should be dedicated for student use only and two for intramural use.

- 4.8 A weight training facility for students is important to the student body and is currently funded by student fees. The current size is inadequate and the current basement location could be improved. Other necessary improvements include better lighting and ventilation, increased size to allow for separation of free weights from machines, a room with appropriate flooring, and mirrors for use as an aerobics room. It is important that weight training facilities for the student body be kept separate from any similar facilities used by athletics.
- 4.9 A classroom-sized room fitted with flooring, mirrors, and sound proofing is needed for dance activities and cheerleaders. This could be combined with the aerobics room.
- 4.10 Storage facilities for student organizations is needed. Each club/organization needs a mini storage-sized area that can be readily accessed but locked. There are currently about twelve clubs requiring storage space.
- 4.11 Student use of a gym requires changing rooms with toilets and showers. Lockers may be half height style.
- 4.12 Ms. Hettinger and Mr. McFeely believe that student use of a swimming pool is thought to be minimal at this time. Student use as recreational activity does not drive the need for a second pool.
- 4.13 During concert events concession sales are limited to t-shirt and souvenir type sales. No food sales are permitted in the arena area.
- 4.14 During special events a special floor covering is placed over the entire playing surface. Storage space for the floor covering is critical. The condition of the floor covering is poor and aged.
- 4.15 Handball/racquet ball courts were requested in lieu of the current squash courts. No one plays squash any longer.
- 4.16 Consider space and equipment for water polo club.

END OF MINUTES

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "David M. Settle". The signature is written in a cursive style with a large initial "D".

David M. Settle, AIA  
Project Manager

/nsm

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# ENTECH

Principals:  
Daniel J. Castellani, PE  
Thomas M. McMahon, PE  
William M. McMahon Jr., PE

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## MEETING MINUTES NO. 5

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*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184.02

*Meeting Date:* January 21, 1998 at 1 p.m.

*Minutes Issue Date:* February 3, 1998

*Location:* Heiges Field House

*Attendees:*

|                      |                                     |
|----------------------|-------------------------------------|
| Jane Goss            | SU, Associate Director of Athletics |
| Paul Kaiser          | SU, Director of Conferences         |
| Galen Piper          | SU, Director of Recreation          |
| Dr. James G. Pribula | SU, Director of Athletics           |
| David M. Settle, AIA | Entech Engineering, Inc.            |
| Jeanne Hutchinson    | Entech Engineering, Inc.            |

*Distribution:*

Attendees

Dr. Joanne Fenton, SU, Provost and Acting President  
Lance Bryson, PE, AICP, SU, Director of Facilities Mgmt & Planning  
Terrence E. Durbin, PE, SU, Associate Dir. for Planning & Engineering

---

*Overview:*

The consolidation of men's and women's athletics into Heiges Field House to address gender equity issues will exceed the physical and mechanical capabilities of Heiges as it exists today. As Henderson Hall is re-programmed for different academic needs, the Health and Physical Education staff will also have needs for new/additional facilities, as well as student recreation activities. At this time there is no need to have both the Athletic department and the Health and Physical Education departments, side by side. Separate but equal facilities are satisfactory.



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It is expected that the current gym in Henderson Hall will need to be replaced, at a minimum, with a facility of equal size. This is the facility that would be expected to be shared more frequently between non-athletic departments and students. In addition, a new competitive pool is anticipated as academic and recreational functions transfer from the Henderson pool to the existing Heiges pool and conflicts with scheduling occur.

The concerns and issues identified at this meeting were focused on needs of the athletic program. Most issues were covered; however, not all were covered in great detail. The order in which these issues and concerns are presented does not reflect any prioritization of concerns, but merely the flow of the meeting. Of all the concerns discussed, locker room needs are tremendous and because of the variety of needs, there are multiple items addressing locker rooms by specific use in an effort to provide clarity to this complex need. Grove Stadium was not included as part of this review, except where functions and locations needed clarification. Office requirements came directly from a department listing with no supporting discussion due to lack of time.

Items Discussed:

- 5.1 Space is needed for the use of graduate student assistants. These students require a lounge area, not shared by faculty, that has ample space for about eight students with access to computers, refrigerator, personal storage, academic supplies and a place to work, at least part time.
- 5.2 With the current use of Heiges, there are insufficient conference and meeting rooms. While the space was designed to meet these needs, office needs have taken precedent and now occupy old meeting/conference room space. Given more office space, original conference rooms and meeting areas could be returned to their originally planned use, and that may be adequate. One conference room to hold 20 people is a minimum need.
- 5.3 Storage space is critically inadequate even for the activities currently supported by Heiges. With the additional women's sports moving out of Henderson, this inadequacy becomes even worse.
  - Current storage capacity of the building has been exceeded by using all space including mechanical rooms for storage. This is not acceptable as it may create fire hazards and it definitely impacts serviceability of mechanical systems in the building.
  - Equipment is also stored offsite in other buildings, like Grove Stadium, and this creates additional work and lost productivity by moving it in and out when needed. Ample space is needed to accommodate all equipment needs of this building.

- Ten women's sports activities are moving into this building, and all require equipment storage space. The sports are field hockey, softball, lacrosse, basketball, swimming, volleyball, cross-country track, tennis, track & field and soccer.
  - Intramural, recreation and classes will place additional needs on any storage requirements.
- 5.4 Current restrooms are inadequate, both in terms of serving the athletes themselves as well as the public attending any event. Location, size and proximity to the arena are all issues.
- 5.5 Building access/egress is an issue, both for athletes, teams, and the general student body. The needs are:
- Access directly from exterior playing fields into locker rooms.
  - Proximity of locker rooms to playing fields.
  - The ability to provide separate entrances/exits to playing fields/arena.
- 5.6 Laundry service to Heiges is inadequate for current use, and with the increase in activity it becomes a problem. Any laundry facility needs to be sized to meet the needs of both men's and women's athletics plus any other similar use placed in the building.
- 5.7 Grove Stadium is a problem because it was not intended to be used year round, and as a result any services in that building are closed down for the winter season. The current stadium has a laundry facility, sports medicine room, and inadequate locker rooms because the visitors' locker room was converted to sports medicine. Possible solutions include:
- Winterize the stadium for year round use by athletics departments, all services.
  - Add separate locker room for visiting team, maintaining current space for sports medicine.
- 5.8 Training/sports medicine facilities will need to be increased to replace the training facility lost when Henderson is converted. It is important that this space be accessible directly from the playing fields and adjacent to the rehabilitation room. It should be adjacent to or easily accessed from locker rooms without passing through the arena as is currently done.

- 5.9 The rehabilitations room is adequate in size; however, it is not in an appropriate location. An adjacent location is important. The rehabilitation room needs to be next to the training room and in close proximity to locker rooms. Exterior access is not needed if it is adjacent to training/sports medicine and locker rooms.
- 5.10 Permanent arena concession stands are needed with adequate water/waste and electrical services. Current set-up is poorly located for support of athletic events.
- 5.11 Ticket booths and the main entrance for events are a make-shift operation which do not allow for adequate control of spectator traffic. The arena can not be segregated from the rest of the building to ensure access only through specific control points. Controlled entry and circulation need to be addressed.
- 5.12 A corporate sponsor hospitality area is needed to continue to support and encourage funding sources for the college.
- 5.13 Small rooms adjacent to the arena are needed to support college athletic recruiting.
- 5.14 Traffic through the building needs to be addressed for any events held in the arena or outside. Current circulation through the building cannot control access to arena without closing off the rest of the building to students and staff not involved in the arena. This limits access to the current building to one event at a time, causes scheduling problems with athletic events, and actually results in the loss of income to the university during the year. In addition, restrooms require travel upstairs or across the building, thus adding to the problem.
- 5.15 The Department of Camps and Conferences relies heavily on both pool and arena access throughout the year, but particularly during the summer. The ability to host various events increases the opportunity to create income for the university and this is a critical need. Due to lack of control over building access by event attendees, simultaneous events cannot be held. Additionally, athletic and academic events are scheduled first on a priority basis which often leads to lost opportunities for generating income. The following needs provide for total use and are not just confined to this department:
- Circulation through the building needs to be improved so that access to locker rooms is separate from the arena.
  - Access to the arena needs to be segregated from the rest of the building so that other functions can continue when events are held in the arena.

- Two (2) swimming pools are needed: one for support of athletics and one for recreational and Camps & Conferences use.
- Two (2) gyms are needed. One needs to be equipped to support intercollegiate events; the second needs to have scheduling time to provide support of Camps & Conferences usage beyond the needs of intramurals, recreation and Health & Physical Education. No bleachers are needed, but the space needs to be divided with soundproof, movable walls to allow for classroom use next to recreational activities.

5.16 Locker room needs are tremendous. Heiges was built to be the men's athletic building and with the gender equity changes required, it needs to provide for women's athletics as well, thus a major change in planned use. All needs identified here assume that Grove Stadium will eventually have two separate locker rooms. The following requirements need to be duplicated in order to provide equal facilities for both men's and women's athletic departments:

- Five separate team locker rooms (vs. General locker room) are needed to provide distinct and private use for each team. Teams will be a mix of school teams and visiting teams. Five (5) compartments per gender.
- Each compartment is to have full length lockers, with four (4) compartments providing capacity for 36-40 people, and one (1) compartment with a capacity of 55 (to handle the typical track & field team).
- Each compartment must have its own entrance and egress doors. Three (3), one of which must be the 55-capacity compartment, must have direct access to the outside and playing fields.
- Access to them should be limited.

5.17 Two (2) locker rooms for officials are required with 6-8 full length lockers, showers, etc. Convenient access to arena as well as to exterior playing fields is desired.

5.18 Two (2) locker rooms for faculty and staff are needed which are separate from any others. Full length lockers, 20 per room minimum, with showers, etc. are needed. Direct access to exterior is desired. These rooms should be separate from team and student locker rooms and accessible during major events.



- 5.19 Two (2) general student locker rooms are needed. These are expected to have 50 full length lockers plus 100 half size lockers (50 2-tier units) and supporting showers, etc. They should be separate from team locker rooms and accessible during major events.
- 5.20 A competitive length, regulation-size swimming pool is needed to support the swimming teams. The existing pool does not meet appropriate depth minimums for starting block placement as planned and it will require major work for it to meet minimum competitive standards. While inadequate depth is not reason enough to disqualify the existing pool, lane width and length are not ideal, nor is it of uniform depth. In addition, bleachers need replacement. With the planned retirement of the Henderson Hall pool, scheduling difficulties are expected if two pools are not available to cover the needs of the athletic teams' training schedules plus all recreational and teaching activities.
- 5.21 Existing indoor court sports (squash, racquetball, handball) are not fully utilized and the space could probably be reallocated. However, there is a recurrent water problem in some of them due to the location of an underground ventilation duct and a rising water table. So any future use needs to be carefully assessed. Current courts are configured for squash and do not meet requirements for handball and racquetball which are currently more popular.
- 5.22 Classroom requirements are for 3-4 rooms, 60 students per room, similar to what they presently have. Storage rooms need to be adjacent to, or between, pairs of rooms to house equipment and supplies used during classes.
- 5.23 The fitness center is currently too small. History shows it will expand to meet space constraints; however, more space is needed. There should also be a dedicated area for athletic training only, not open to the general student population.
- 5.24 Office requirements were not discussed in detail. The following numbers were derived from the current department listing. Where there appeared to be a vacant position (title listed, but no name), the space was counted. No distinction was made between volunteer positions nor any other, except for the director, associate director and showcase sports of basketball, baseball, and football. A total of 63 (61 staff and 2 open positions) offices are needed:

- 4 Two person suites: Director & secretary; Associate Director & secretary.
- 8 One 8-person suite to showcase football
- 4 One 4-person suite to showcase baseball
- 5 Two 3-person suites (or one 5-6 person suite) to showcase basketball, men's and women's
- 42 Individual offices for coaching staff
- 63 - Total offices needed

5.25 During sports events a food concession stand operates in the corner of the arena. Sale items include hot dogs, popcorn, sodas and soft pretzels. The make-shift arrangement often overloads electrical circuits and has limited water and sanitary facilities.

#### END OF MINUTES

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



David M. Settle, AIA  
Project Manager

/nsm

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# ENTECH

Principals:  
Daniel J. Castellani, PE  
Thomas M. McMahon, PE  
William M. McMahon Jr., PE

## MEETING MINUTES NO. 6

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*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184.02

*Meeting Date:* January 21, 1998 at 2:30 p.m.

*Minutes Issue Date:* February 3, 1998

*Location:* Heiges Field House

*Attendees:*

|                      |   |
|----------------------|---|
| Dr. Robert Bartos    | SU, Dean, College of Education and Human Services |
| Dr. Kent Chrisman    | SU, Director of Rowland School                    |
| Mr. Paul Dempsey     | SU, Registrar & Director of Graduate School       |
| Lt. Col. Rick Kerr   | SU, Professor of Military Science                 |
| Dr. Sally McGrath    | SU, Chair, Health and Physical Education Dept.    |
| David M. Settle, AIA | Entech Engineering, Inc.                          |
| Jeanne Hutchinson    | Entech Engineering, Inc.                          |

*Distribution:*

Attendees

Dr. Joanne Fenton, SU, Provost and Acting President  
Lance Bryson, PE, AICP, SU, Director of Facilities Mgmt & Planning  
Terrence E. Durbin, PE, SU, Associate Dir. for Planning & Engineering

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Overview:

It is planned that current function of Henderson Hall will change and that the departments housed in this facility will be relocated to Heiges Field House or a facility to be determined through the course of this study. When Heiges was built, it was designed to be the men's athletic facility and Henderson Hall became the women's athletic facility. The departments using Henderson have also grown. The Rowland School uses the building extensively as do the Department of Health and Physical Education and students for recreation. All current uses must be provided space in any planned changes to Heiges Field House.



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Concerns with the Heiges facility as it is today include lack of adequate and convenient restrooms and locker rooms and inadequate storage. Shared use of any facility with both student activities and athletics is expected to be reasonable, provided space requirements are properly addressed up front.

Items Discussed:

- 6.1 Classrooms and gym space are more important than fields as more classes are taught in indoors. In addition Rowland School makes use of the current indoor space; however, this may change in the future, pending approval of a new facility for the school.
- A minimum of two (2) classrooms are needed for 25 - 30 people, but more classrooms would be better. They are used extensively during the day and need to be separated acoustically from other rooms so that classes can be conducted easily.
  - There must be extra space in each room for tables, for demonstrations and equipment layout.
  - Good blackboards are desired instead of the newer, white boards. They need to be placed appropriately for lecture style classes.
  - Acoustical separation between classrooms and other activities is a major issue. Currently adjoining room activities experience significant difficulties because of noise levels.
  - Provide all classrooms with a TV monitor with VCR.
- 6.2 An all purpose room for computer equipment is needed.
- 6.3 A room for about 6-8 people with substantial storage capacity for fitness testing equipment is needed. It could double as a conference room for the department.
- 6.4 If a regulation swimming pool is dedicated to competitive events, a second one will be needed. Currently there is significant usage of this pool and scheduling conflicts with athletics for recreational activities are anticipated should only one be available. Rowland School relies on the Henderson pool as part of its fitness curriculum and wants to see access to a pool continue. Rowland School requires only access to adult sized locker rooms, with no special accommodations.

- 6.5 Racquetball court access for teaching is needed. Six (6) regulation size courts are needed, and two of the six should be convertible to squash courts. Current indoor courts are not regulation size for racquetball, but they are for squash courts.
- 6.6 All offices for department need to be adjacent. A suite of offices is preferred.
- 1 office for dept chair
  - 7 offices for staff members (6 current plus 1 future faculty position)
  - 1 secretarial office with space for student assistant
  - General office space for graduate students. It can be a large office with multiple desks but it needs to be adjacent to staff offices.
  - Work room to accommodate archival files plus work room table, copier, fax, etc.
- 6.7 Offices need to be adjacent to classrooms, not across campus or the building.
- 6.8 Staff/faculty lounge area is needed. The lounge space can be shared with other departments in the building, as long as one is provided.
- 6.9 ROTC falls under academics in terms of priorities for scheduling of facilities.
- 6.10 ROTC Office requirements for staff are:
- 8 offices for faculty (8 uniformed personnel)
  - 1 large administrative office for 3 workstations (2 civilian personnel plus student assistant) and room for copier, fax, and other misc. equipment
  - 1 cadet lounge (200 cadets on campus)
  - 1 supply room with special locking capability. This room stores uniforms, reference materials, tactical equipment, etc., and requires very secure access.
- 6.11 One classroom dedicated to ROTC is needed. Location in Heiges is good since it is near other frequently used resources.
- Classroom needs to be near office area.

- Close proximity to Heiges for training activities is desired.
  - Capacity of up to 30 students.
  - Several tables (5-7) to accommodate 4-6 people is the standard set up of room
  - Extra space at back of room is needed to vary room set up and activities conducted in the room.
  - Whiteboards are desired, not black boards.
  - ROTC specific bulletin boards.
  - Classroom must present a unique ROTC identity for recruiting. This identity is the success of the program.
- 6.12 Break-out rooms are needed for use by ROTC Leadership Lab activities. During special leadership workshops, up to 200 cadets gather for multiple activities. A large area, such as a gym, should be available for large group meetings.
- 6.13 ROTC requires access to a gym facility for training exercises and maneuvers.
- 6.14 ROTC needs access to a fitness or weight training center.
- Current fitness center in Heiges is too small.
  - They can share a facility if they can get access at 6:15 am.
  - Need a complete circuit of training machines.
  - Need increased number of aerobic equipment (bikes, rowing machines, stair steps, etc.)
- 6.15 University administration can not lose overall dedicated classroom space.
- 6.16 Both Health & Phys Ed. and ROTC can use whatever locker space is planned for the general student body.
- 6.17 Attached is an outline of desired ROTC accommodations and facilities which was prepared by Lt. Col. Rick Kerr.
- 6.18 Ticket booths are make-shift arrangements which do not control access. Consideration for gates in corridors should be explored.

6.19 Consideration should be given to a "Corporate Sponsor Hospitality Area".  
This space could double as a sports recruiting area for the coaches.

6.20 Provide dedicated floor space for boxing club.

END OF MINUTES

The above minutes reflect the writer's interpretation of the meeting events and discussions. Should there be any corrections which are deemed to be required to these minutes, please send a copy of your suggested corrections to the undersigned within 7 days of receipt. Receiving no corrections, these minutes shall stand as the meeting record.

Respectfully submitted,



David M. Settle, AIA  
Project Manager

/nsm

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## Army ROTC use of athletic facilities

### 1. Academic.

a. Classroom instruction is currently conducted exclusively in HFH 220. We generally have approximately 200 students in 12 sections of 8-30 students each. We use the dedicated classroom as a focal point for cadets with an ROTC specific bulletin board. The classroom has an Army funded computer projection system (requiring security/controlled usage). We need to retain a classroom with a unique identity for recruiting – the success to our program.

b. Each military science class includes a leadership lab. All cadets come together on Thursdays at 1400-1450; we currently use the two big rooms in HG. For lab we have a requirement to be able to put all of the cadets together on a 'drill floor' and, alternately, breaking them up into small group instruction for the lab (depending on the subject). We also hold an 'alternate' lab on two Saturdays during the semester (for 5 hours each day). At least once a year we use the pool to teach water survival.

### 2. Physical Training.

a. We hold physical training each weekday at 0615-0725, currently in HFH; for 20-40 cadets. We conduct a variety of exercises (stretching, pushups, situps, sprints) followed by an aerobic events, usually a 2-3 mile run outside. For winter, we require an indoor track for the run. For variety, we also occasionally use the fitness room, basketball /volleyball courts and the pool.

b. The cadets must meet stringent physical conditioning standards for their Advanced Camp; the cadets would use a fitness center (if we had one) to better attain these standards.

### 3. Adventure Training

As part of leadership lab (and recruiting / retention efforts) we conducted rappelling off the HFH roof. This winter, the President stopped it due to wear & tear on an already leaking roof. This a relatively safe, yet exciting, activity that we would like to reinstitute on the new facility. In combination with the Outing Club, we could also use an indoor climbing wall. We also have a unique requirement to train cadets attending air assault school to climb a 30-foot hanging rope.

### 4. Faculty Conditioning

We have eight active-duty Army faculty who are required to maintain physical fitness standards. We require alternatives (such as racket ball) and a much better fitness center, along with locker rooms.

### 5. Options

Due to our use of the athletic facilities for classroom, lab and PT training, it would make some sense to move the Department of Military Science into this facility.



## Army ROTC use of athletic facilities

### 1. Academic.

a. Classroom instruction is currently conducted exclusively in HFH 220. We generally have approximately 200 students in 12 sections of 8-30 students each. We use the dedicated classroom as a focal point for cadets with an ROTC specific bulletin board. The classroom has an Army funded computer projection system (requiring security/controlled usage). We need to retain a classroom with a unique identity for recruiting – the success to our program.

b. Each military science class includes a leadership lab. All cadets come together on Thursdays at 1400-1450; we currently use the two big rooms in HG. For lab we have a requirement to be able to put all of the cadets together on a 'drill floor' and, alternately, breaking them up into small group instruction for the lab (depending on the subject). We also hold an 'alternate' lab on two Saturdays during the semester (for 5 hours each day). At least once a year we use the pool to teach water survival.

### 2. Physical Training.

a. We hold physical training each weekday at 0615-0725, currently in HFH; for 20-40 cadets. We conduct a variety of exercises (stretching, pushups, situps, sprints) followed by an aerobic event, usually a 2-3 mile run outside. For winter, we require an indoor track for the run. For variety, we also occasionally use the fitness room, basketball /volleyball courts and the pool.

b. The cadets must meet stringent physical conditioning standards for their Advanced Camp; the cadets would use a fitness center (if we had one) to better attain these standards.

### 3. Adventure Training

As part of leadership lab (and recruiting / retention efforts) we conducted rappelling off the HFH roof. This winter, the President stopped it due to wear & tear on an already leaking roof. This a relatively safe, yet exciting, activity that we would like to reinstitute on the new facility. In combination with the Outing Club, we could also use an indoor climbing wall. We also have a unique requirement to train cadets attending air assault school to climb a 30-foot hanging rope.

### 4. Faculty Conditioning

We have eight active-duty Army faculty who are required to maintain physical fitness standards. We require alternatives (such as racket ball) and a much better fitness center, along with locker rooms.

### 5. Options

Due to our use of the athletic facilities for classroom, lab and PT training, it would make some sense to move the Department of Military Science into this facility.

**APPENDIX D**

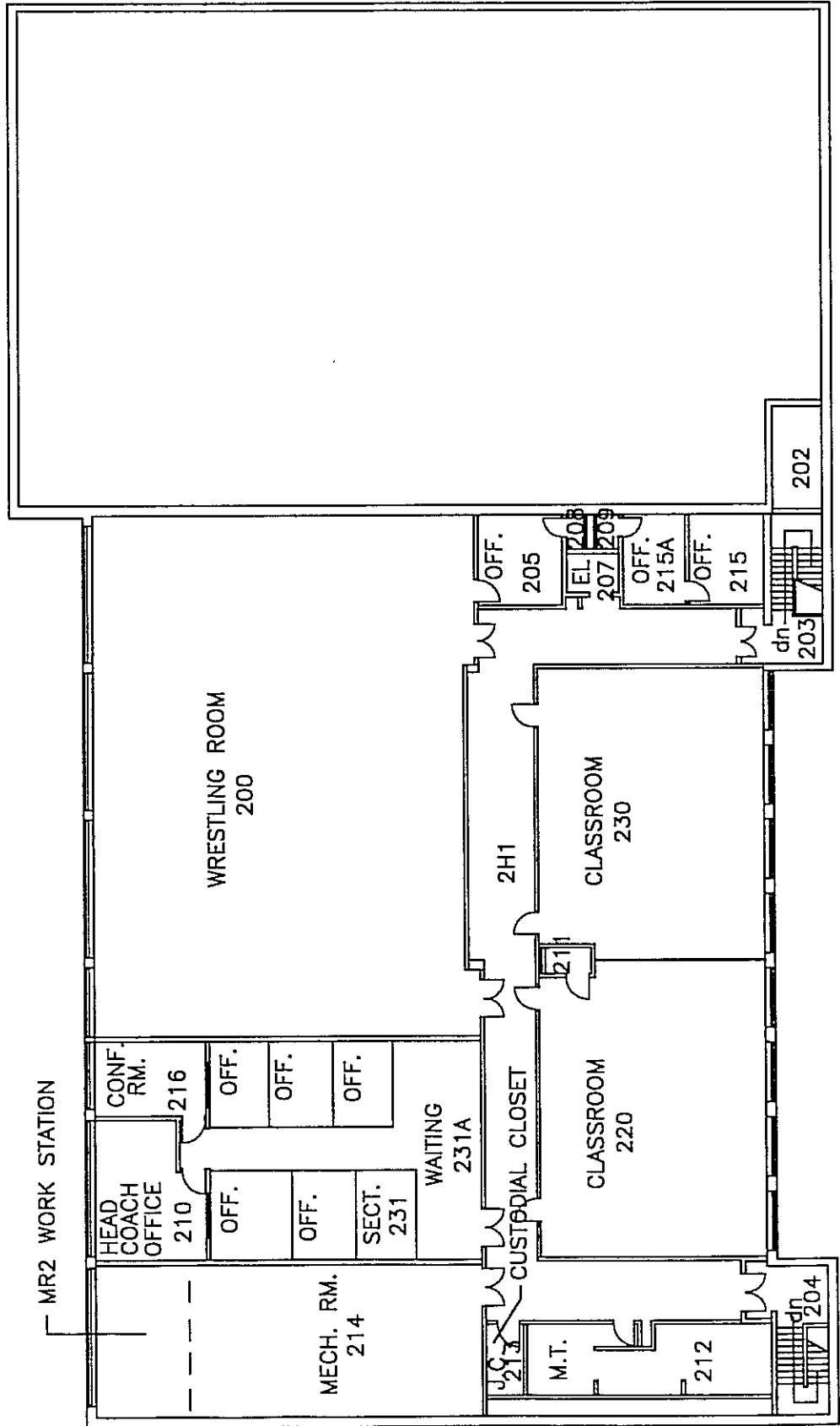
**EXISTING FLOOR PLANS**

*Source:* Drawings of existing buildings were provided by Shippensburg University Planning and Engineering.

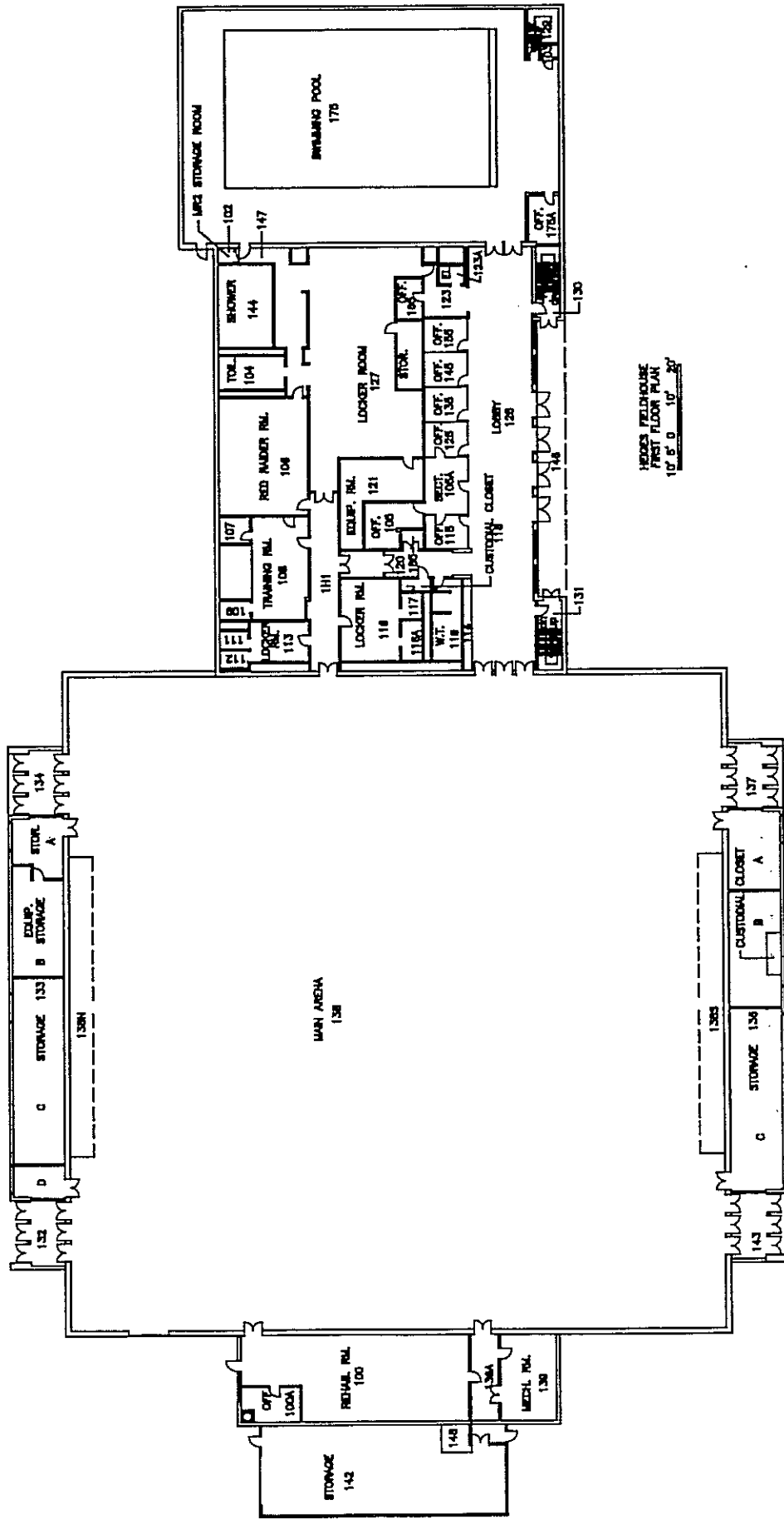
**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**HEIGES FIELD HOUSE**

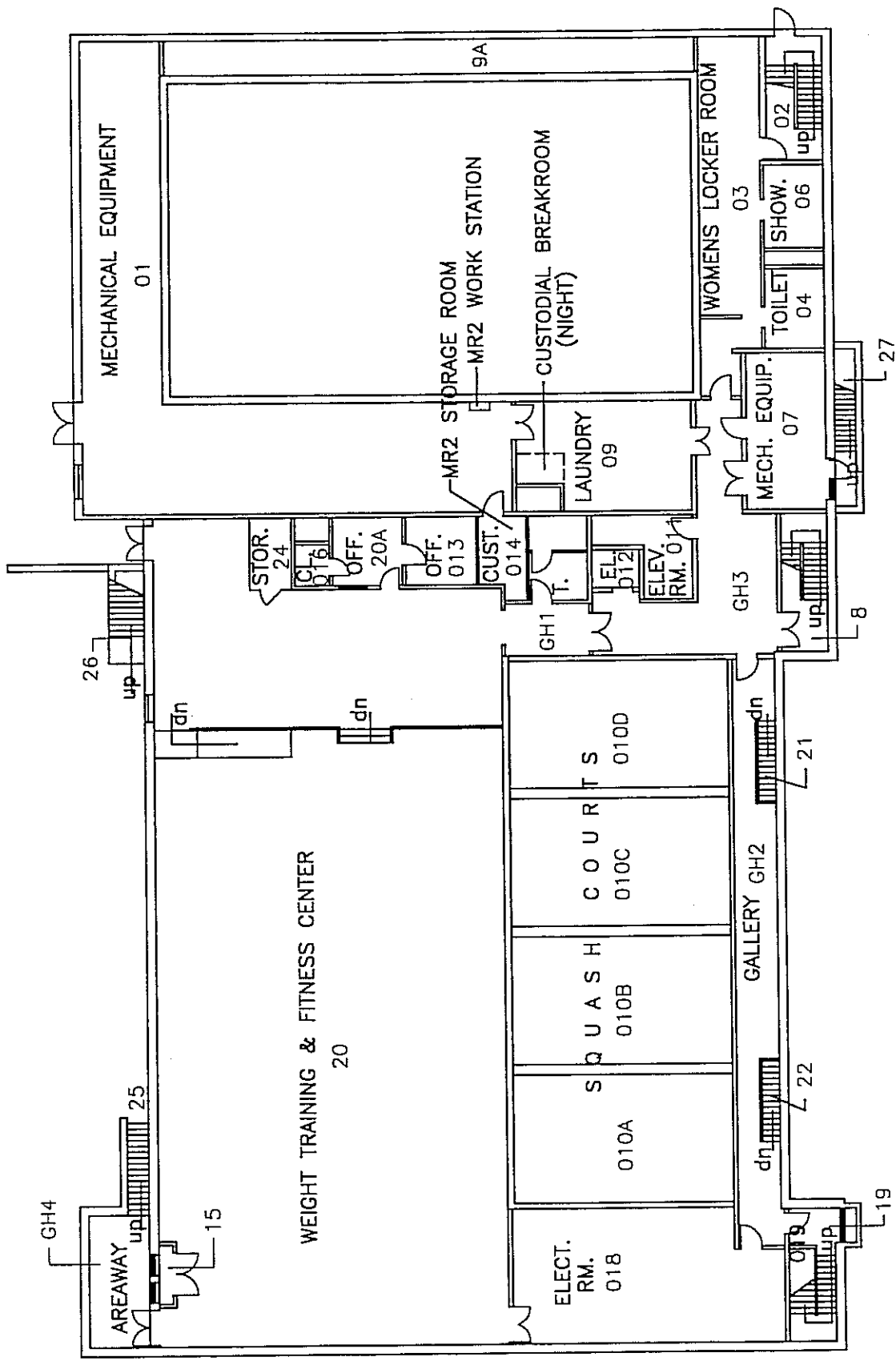
CONSTRUCTED: 1971  
GROSS BUILDING AREA: 91,634 Square Feet  
PRIMARY FUNCTION: ATHLETICS



HEIGES FIELDHOUSE  
SECOND FLOOR PLAN



HEDGES FIELDHOUSE  
FIRST FLOOR PLAN  
10' 0" 10' 20"



HEIGES FIELDHOUSE  
GROUND FLOOR PLAN  
10' 5' 0 10' 20'

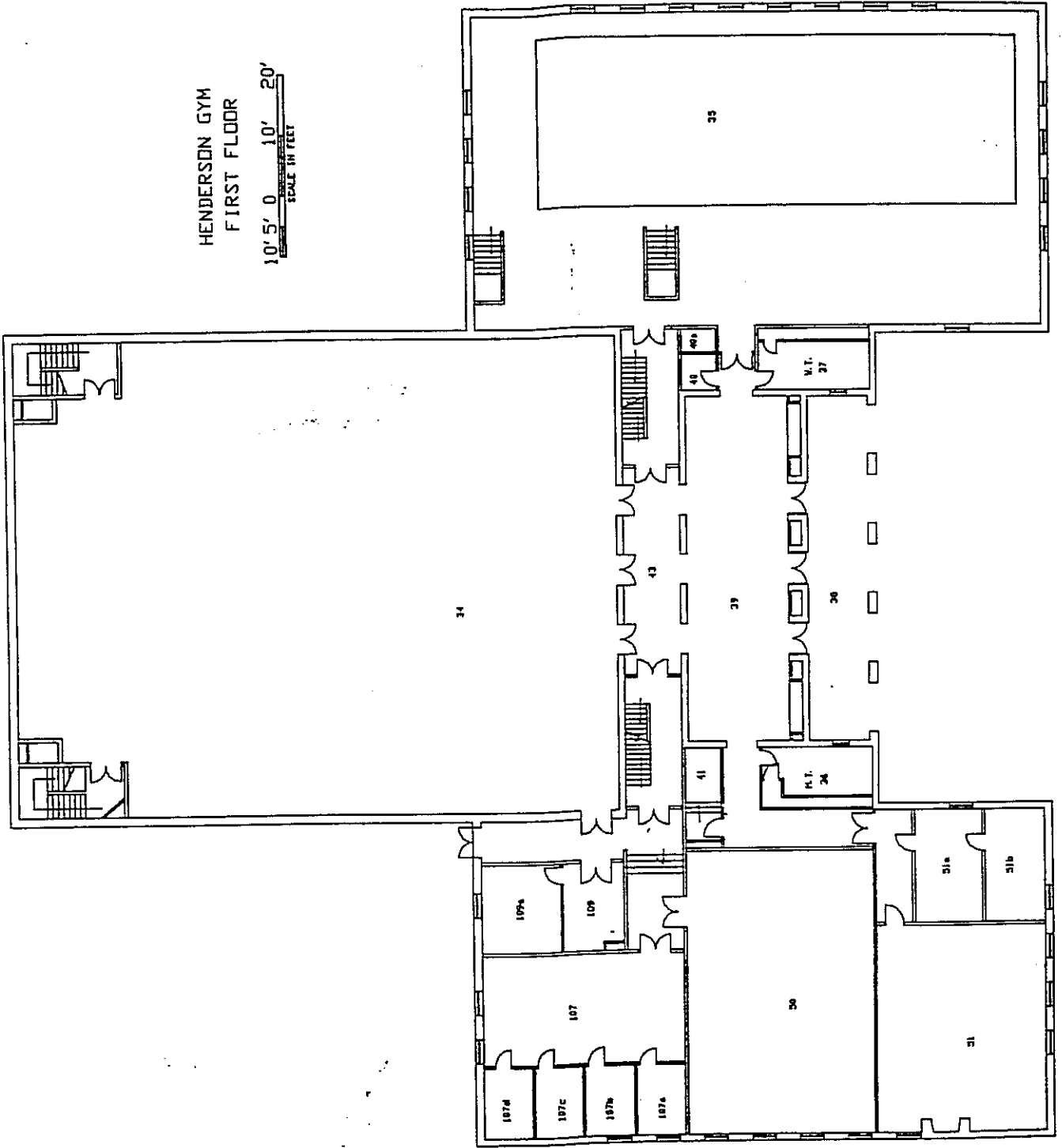
**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**HENDERSON GYM**

CONSTRUCTED: 1937  
GROSS BUILDING AREA: 36,250 Square Feet  
PRIMARY FUNCTION: ATHLETICS

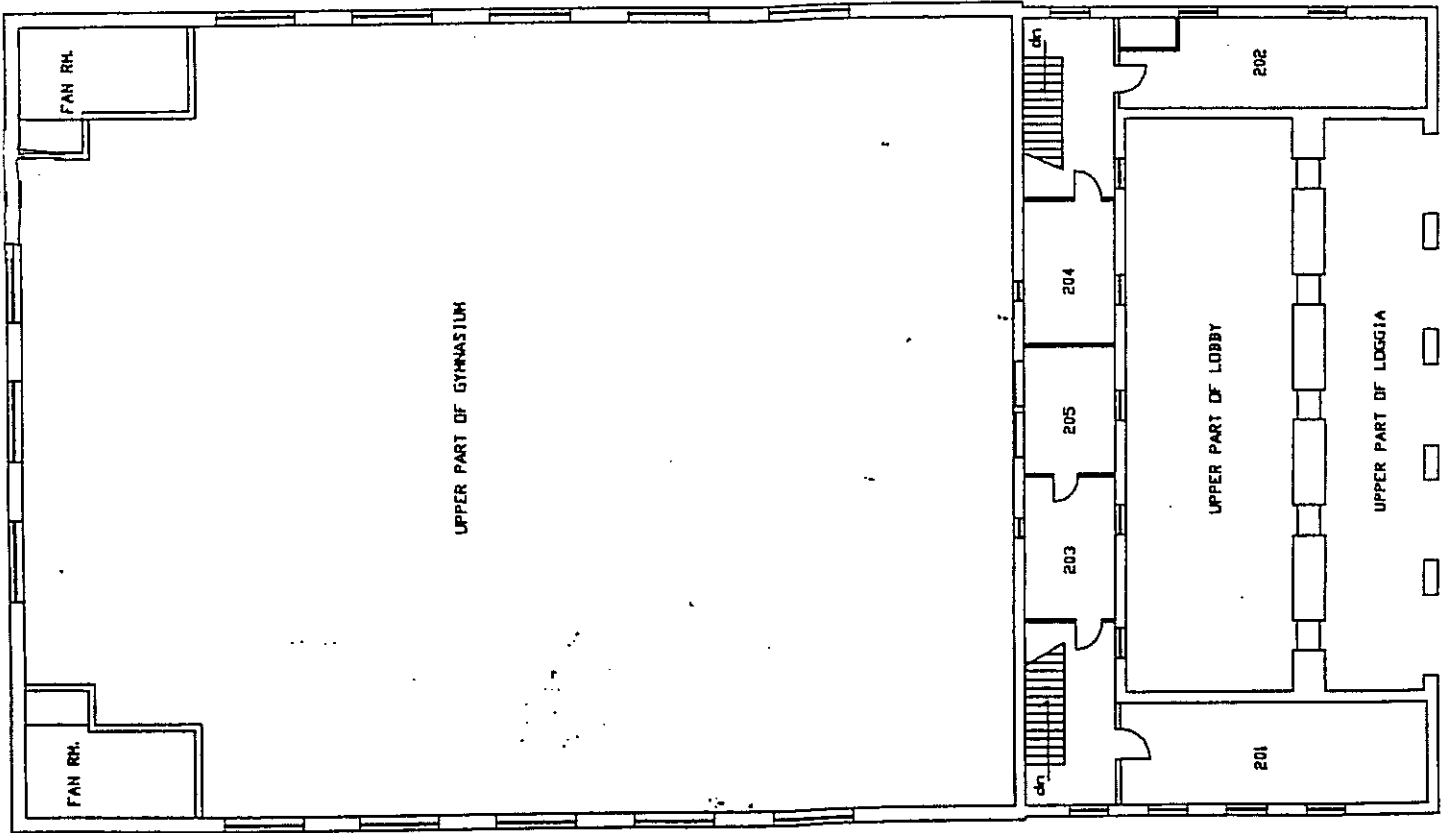
HENDERSON GYM  
FIRST FLOOR

10' 5' 0 10' 20'  
SCALE IN FEET

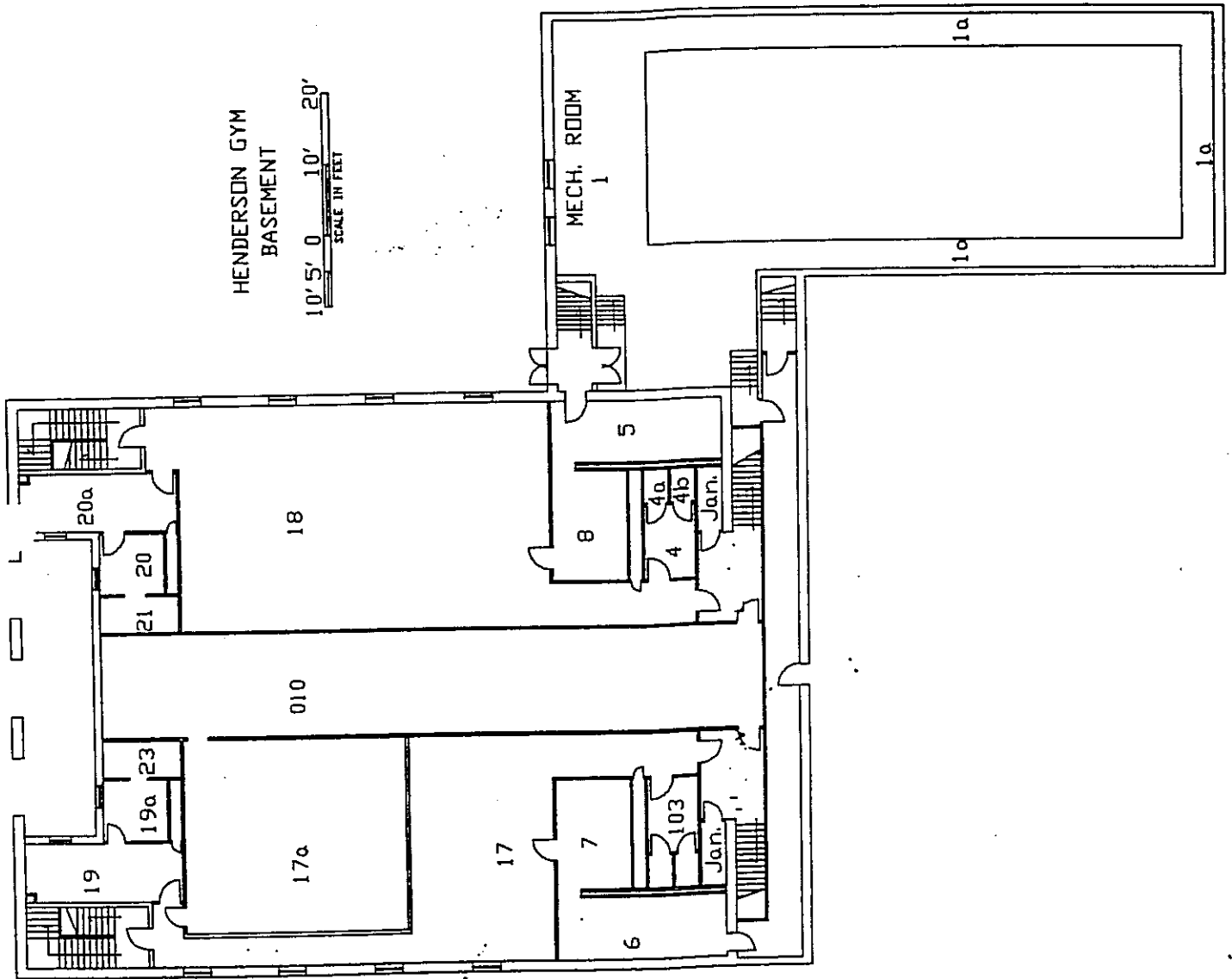


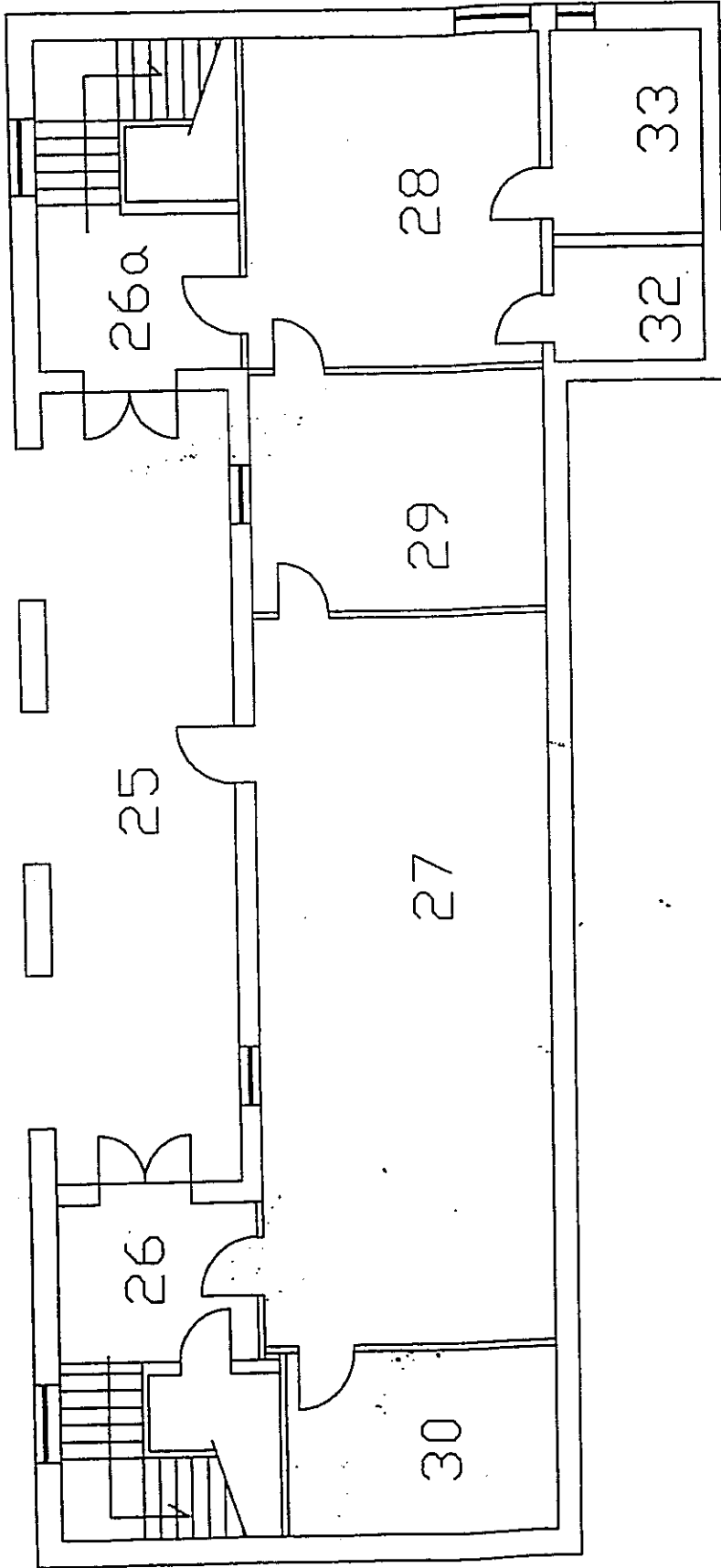


HENDERSON GYM  
SECOND FLOOR

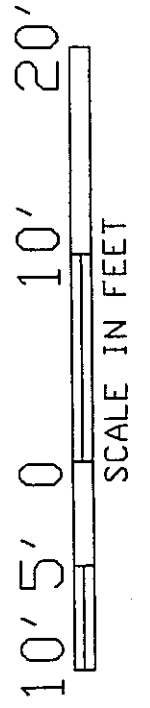


HENDERSON GYM  
BASEMENT





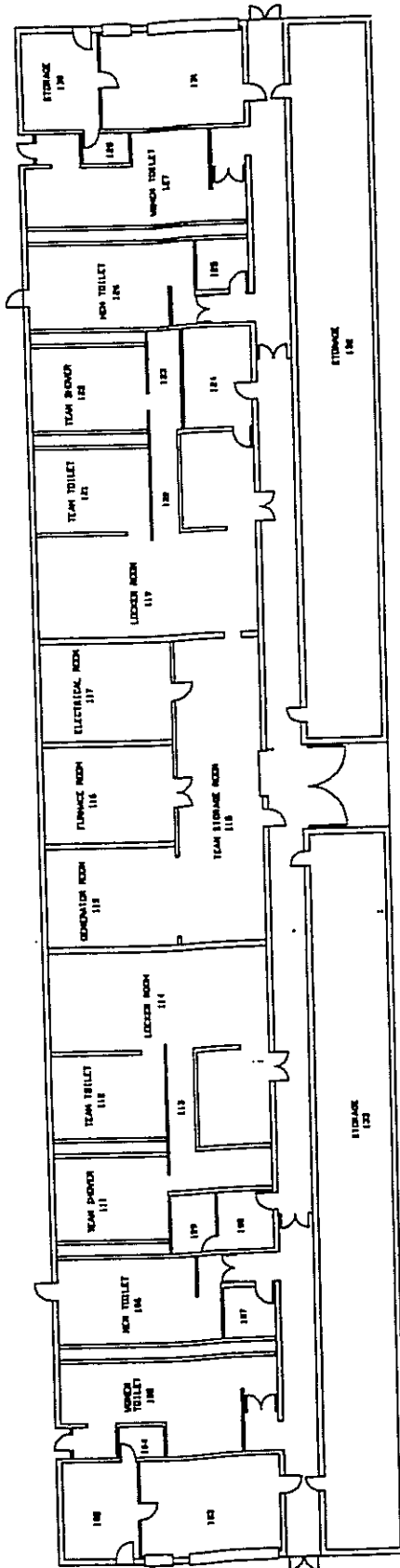
HENDERSON GYM  
SUB - BASEMENT



**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

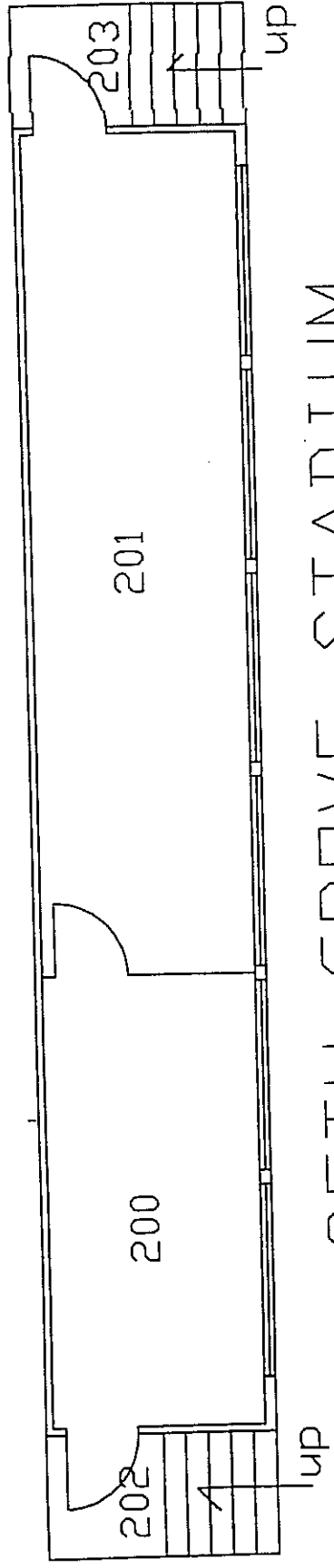
**SETH GROVE GRANDSTAND**

CONSTRUCTED: 1972  
GROSS BUILDING AREA: 19,257 Square Feet  
PRIMARY FUNCTION: ATHLETICS

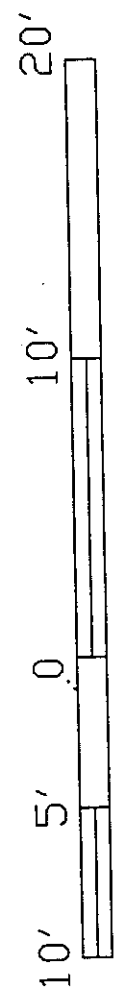


SETH GROVE STADIUM  
FIRST FLOOR





# SETH GROVE STADIUM PRESS BOX

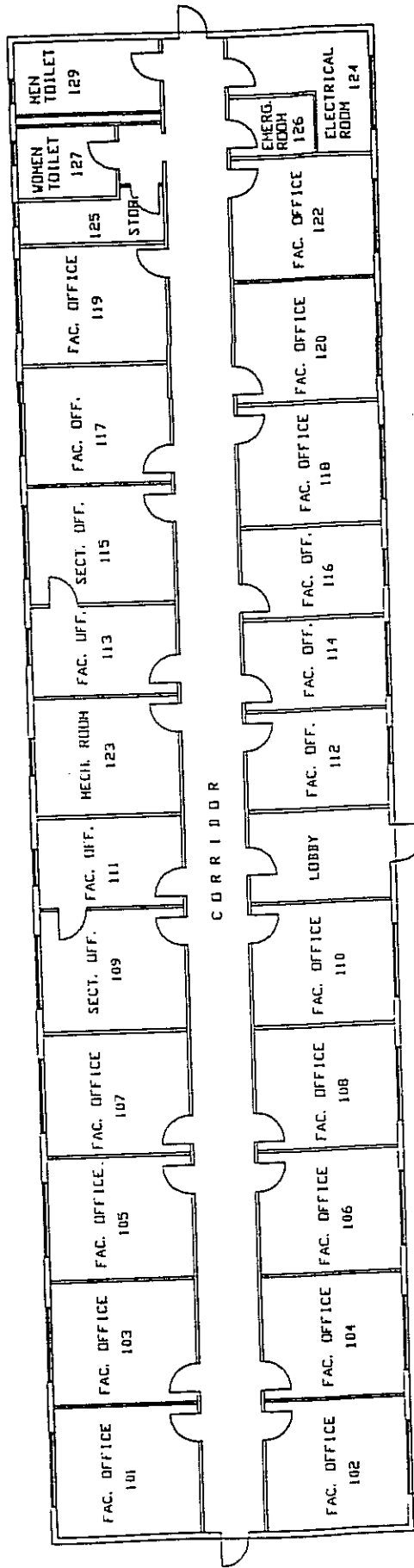


SCALE IN FEET

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**FACULTY OFFICE BUILDING**

CONSTRUCTED: 1970  
GROSS BUILDING AREA: 6,550 Square Feet  
PRIMARY FUNCTION: OFFICES



FACULTY OFFICE BUILDING  
FIRST FLOOR





**APPENDIX E**

**EXISTING FACILITIES MANAGEMENT  
BUILDING DATA**

*Source:* Existing Facilities Management Building Data provided by Shippensburg University Planning and Engineering.

# FACILITIES MANAGEMENT BUILDING DATA

27-May-97

**University:** SHIPPENSBURG  
**Site:** SHIPPENSBURG  
**Name of Building:** HEIGES FIELD HOUSE **Building No.:** 215  
**Address:** BUCKS DRIVE  
  
**Building Type:** E *E: Educational/General A: Auxiliary B: Both*  
**Ownership:** C *U: University C: Commonwealth*  
**Replacement Cost:** 10402579 **Year of Construction:** 1970  
**or Year of Acquisition:** 1970  
  
**Year of Last Renovation:** **Building Function:** ATHLETICS  
**Disabled Access to Building:** YES  
**Building Condition:** 4 *1. Satisfactory 2. Remodeling A - Not major*  
*3. Remodeling B - Major modernization*  
*4. Remodeling C - Major building remodeling*  
*5. Demolition 6. Termination:*  
**Type of Construction:** REIN. CONCR. STEEL, BRICK.  
**Landmark Status:** NO *Y: Yes N: No E: Eligible*  
  
**Original Building Cost:** 2656804 **Cost of Last Major Renovation**  
**or Value at Acquisition:** 2656804

## Data to be Provided by Survey Team

**Gross Area:** ~~91303~~ **Assignable Area:** ~~73874~~ **Number of floors:** 3  
 91634 (3/20/98) 67793 (3/20/98)

| B NO | FLOOR | FLOOR AREA | ROOM NO | USE CODE | USE         | FUNCTION         |
|------|-------|------------|---------|----------|-------------|------------------|
| 215  | G     | 4741       | 000     | 0000     | ZZ          | Structural       |
| 215  | G     | 1567       | 001     | 92       | Machine     | Mech             |
| 215  | G     | 167        | 002     | 72       | Stair       | SE Stair         |
| 215  | G     | 466        | 003     | 520C     | Ath Svc-Int | F Locker         |
| 215  | G     | 103        | 004     | 82       | Toilet F    | F Toilet         |
| 215  | G     | 107        | 006     | 520C     | Ath Svc-Int | F Shower         |
| 215  | G     | 192        | 007     | 92       | Machine     | Mech             |
| 215  | G     | 167        | 008     | 72       | Stair       | S Stair          |
| 215  | G     | 408        | 009     | 520C     | Ath Svc-Int | Laundry          |
| 215  | G     | 413        | 009A    | 92       | Machine     | Behind Pool      |
| 215  | G     | 594        | 010A    | 520A     | Ath-PE-Int  | Squash           |
| 215  | G     | 594        | 010B    | 520A     | Ath-PE-Int  | Squash           |
| 215  | G     | 594        | 010C    | 520A     | Ath-PE-Int  | Squash           |
| 215  | G     | 594        | 010D    | 520A     | Ath-PE-Int  | Squash           |
| 215  | G     | 119        | 011     | 93       | Elevator    | Elev Machine     |
| 215  | G     | 22         | 012     | 73       | Elevator    | Gnd Floor        |
| 215  | G     | 105        | 013     | 335      | Grad Asst   | Fitness Ctr      |
| 215  | G     | 107        | 014     | 85       | Maint sto   | MR2 Sto          |
| 215  | G     | 18         | 015     | 92       | Machine     | space in Fitness |
| 215  | G     | 30         | 016     | 310      | Fac Off Svc | Fitness Closet   |
| 215  | G     | 725        | 018     | 92       | Machine     | Elect            |
| 215  | G     | 167        | 019     | 72       | Stair       | SW Stair         |
| 215  | G     | 5694       | 020     | 520A     | Ath-PE-Int  | Fitness Ctr      |
| 215  | G     | 104        | 020A    | 305      | Fac Off     | Coach            |
| 215  | G     | 34         | 021     | 72       | Stair       | Squash Stair     |
| 215  | G     | 34         | 022     | 72       | Stair       | Squash Stair     |
| 215  | G     | 97         | 023     | 81       | Toilet M    | Fitness Toilet   |
| 215  | G     | 60         | 024     | 520C     | Ath Svc-Int | Fitness Sto      |
| 215  | G     | 45         | 025     | 72       | Stair       | To GH4           |
| 215  | G     | 81         | 026     | 72       | Stair       | NW 175           |
| 215  | G     | 72         | 027     | 72       | Stair       | To 7             |
| 215  | G     | 96         | GH1     | 71       | Corr        | Betw 20&GH3      |
| 215  | G     | 451        | GH2     | 71       | Corr        | Betw 18&GH3      |
| 215  | G     | 489        | GH3     | 71       | Corr        | Betw 3&GH2       |
| 215  | G     | 133        | GH4     | 92       | Mach        | NW 20            |
| 215  | 1     | 1446       | 100     | 540      | Clinic      | Sports Med       |
| 215  | 1     | 150        | 100A    | 315      | Admin       | Sports Med Off   |
| 215  | 1     | 18         | 102     | 85       | Maint Sto   | Sto Pool Vac     |
| 215  | 1     | 18         | 103     | 520C     | Ath Svc-Int | Swm Sto          |
| 215  | 1     | 173        | 104     | 81       | Toilet M    | Locker Toilet    |
| 215  | 1     | 229        | 105     | 315      | Admin       | Dir Ath          |
| 215  | 1     | 214        | 105A    | 325      | Clerical    | Dir Secy         |
| 215  | 1     | 859        | 106     | 520C     | Ath Svc-Int | M Varsity Locker |
| 215  | 1     | 68         | 107     | 315      | Admin       | Sports Med Off   |
| 215  | 1     | 610        | 108     | 540      | Clinic      | Sports Med       |

|     |   |       |      |      |              |                  |
|-----|---|-------|------|------|--------------|------------------|
| 215 | 1 | 50    | 109  | 83   | Toilet Uni   | Spts Med Toilet  |
| 215 | 1 | 44    | 111  | 81   | Toilet M     | Coach Toilet     |
| 215 | 1 | 44    | 112  | 520C | Ath Svc-Int  | Coach Shower     |
| 215 | 1 | 171   | 113  | 520C | Ath Svc-Int  | Coach Locker     |
| 215 | 1 | 66    | 114  | 520C | Ath Svc-Int  | Trophy case      |
| 215 | 1 | 127   | 115  | 365  | Conf rm      | Conf Rm - DoA    |
| 215 | 1 | 398   | 116  | 520C | Ath Svc-Int  | F Varsity Locker |
| 215 | 1 | 63    | 116A | 520C | Ath Svc-Int  | Sto              |
| 215 | 1 | 42    | 117  | 82   | Toilet F     | Locker Toilet    |
| 215 | 1 | 28    | 118  | 84   | Cust         | Cust             |
| 215 | 1 | 200   | 119  | 82   | Toilet F     | Women's          |
| 215 | 1 | 278   | 120  | 71   | Corr         | Betw 128&108     |
| 215 | 1 | 377   | 121  | 520C | Ath Svc-Int  | Equip Rm         |
| 215 | 1 | 124   | 123  | 71   | Corr         | Betw 128&127     |
| 215 | 1 | 22    | 123A | 73   | Elevator     | First floor      |
| 215 | 1 | 126   | 125  | 305  | Fac Off      | Assoc Dir        |
| 215 | 1 | 1881  | 127  | 520C | Ath Svc-Int  | M Locker         |
| 215 | 1 | 2270  | 128  | 71   | Corr         | Main Lobby       |
| 215 | 1 | 122   | 129  | 72   | Stair        | SE Stair         |
| 215 | 1 | 167   | 130  | 72   | Stair        | S Stair          |
| 215 | 1 | 167   | 131  | 72   | Stair        | SW Stair         |
| 215 | 1 | 174   | 132  | 74   | Vestibule    | NW               |
| 215 | 1 | 169   | 133A | 92   | Mach         | North Sto        |
| 215 | 1 | 512   | 133B | 92   | Mach         | North Sto        |
| 215 | 1 | 522   | 133C | 92   | Mach         | North Sto        |
| 215 | 1 | 183   | 133D | 92   | Mach         | North Sto        |
| 215 | 1 | 174   | 134  | 74   | Vestibule    | NE               |
| 215 | 1 | 126   | 135  | 305  | Fac Off      | Coach            |
| 215 | 1 | 272   | 136A | 92   | Mach         | Cust Sto         |
| 215 | 1 | 426   | 136B | 92   | Mach         | S Sto            |
| 215 | 1 | 715   | 136C | 92   | Mach         | S Sto            |
| 215 | 1 | 174   | 137  | 74   | Vestibule    | SE               |
| 215 | 1 | 33832 | 138  | 520A | Ath-PE-Int   | Arena            |
| 215 | 1 | 756   | 138N | 520B | Ath Seat-Int | N Bleach         |
| 215 | 1 | 756   | 138S | 520B | Ath Seat-Int | S Bleach         |
| 215 | 1 | 394   | 139  | 92   | Machine      | W Mech Rm        |
| 215 | 1 | 244   | 139A | 71   | Corr         | Betw 138&142     |
| 215 | 1 | 1738  | 142  | 85   | Maint sto    | Seating Storage  |
| 215 | 1 | 174   | 143  | 74   | Vestibule    | SW               |
| 215 | 1 | 599   | 144  | 520C | Ath Svc-Int  | M Shower         |
| 215 | 1 | 126   | 145  | 305  | Fac Off      | Coach            |
| 215 | 1 | 637   | 146  | 71   | Corr         | Portico          |
| 215 | 1 | 78    | 147  | 71   | Corr         | Betw 144&102     |
| 215 | 1 | 60    | 148  | 85   | Maint sto    | Electronics      |
| 215 | 1 | 126   | 155  | 305  | Fac Off      | Coach            |
| 215 | 1 | 70    | 165  | 305  | Fac Off      | Asst Coach       |

|     |   |       |      |      |             |                |
|-----|---|-------|------|------|-------------|----------------|
| 215 | 1 | 7140  | 175  | 520A | Ath-PE-Int  | Swm Pool       |
| 215 | 1 | 153   | 175A | 305  | Fac Off     | Swim Coach     |
| 215 | 1 | 41    | 185  | 325  | Clerical    | Mail Room      |
| 215 | 1 | 357   | 1H1  | 71   | Corr        | Betw 138&127   |
| 215 | 2 | 3570  | 200  | 520A | Ath-PE-Int  | Wrestling      |
| 215 | 2 | 153   | 202  | 92   | Machine     | Above 175A     |
| 215 | 2 | 167   | 203  | 72   | Stair       | S Stair        |
| 215 | 2 | 167   | 204  | 72   | Stair       | SW Stair       |
| 215 | 2 | 135   | 205  | 305  | Fac Off     | Coach          |
| 215 | 2 | 22    | 207  | 73   | Elevator    | 2d floor       |
| 215 | 2 | 14    | 208  | 310  | Fac Off Svc | Closet in 205  |
| 215 | 2 | 14    | 209  | 310  | Fac Off Svc | Closet in 215A |
| 215 | 2 | 248   | 210  | 305  | Fac Off     | Coach          |
| 215 | 2 | 22    | 211  | 92   | Machine     | Mechanical     |
| 215 | 2 | 315   | 212  | 81   | Toilet M    | Men            |
| 215 | 2 | 46    | 213  | 84   | Cust        | Cust           |
| 215 | 2 | 1061  | 214  | 92   | Machine     | Mech           |
| 215 | 2 | 115   | 215  | 305  | Fac Off     | Coach          |
| 215 | 2 | 115   | 215A | 305  | Fac Off     | Coach          |
| 215 | 2 | 149   | 216  | 365  | Conf Rm     | Conf Rm FB     |
| 215 | 2 | 1194  | 220  | 110  | Classrm     | ROTC           |
| 215 | 2 | 1194  | 230  | 110  | Classrm     | Phys Ed        |
| 215 | 2 | 619   | 231  | 325  | Clerical    | Ft ball Secy   |
| 215 | 2 | 504   | 231A | 305  | Fac Off     | Asst Coaches   |
| 215 | 2 | 1140  | 2H1  | 71   | Corr        | 2d flr hall    |
|     |   | 91634 |      |      |             |                |

| B NO | FLOOR | FLOOR AREA  | ROOM NO | USE CODE        | USE       | FUNCTION       |
|------|-------|-------------|---------|-----------------|-----------|----------------|
| 215  | 1     | 278         | 120     | 71              | Corr      | Betw 128&108   |
| 215  | 1     | 124         | 123     | 71              | Corr      | Betw 128&127   |
| 215  | 1     | 2270        | 128     | 71              | Corr      | Main Lobby     |
| 215  | 1     | 244         | 139A    | 71              | Corr      | Betw 138&142   |
| 215  | 1     | 637         | 146     | 71              | Corr      | Portico        |
| 215  | 1     | 78          | 147     | 71              | Corr      | Betw 144&102   |
| 215  | 1     | 357         | 1H1     | 71              | Corr      | Betw 138&127   |
| 215  | 1     | 1140        | 2H1     | 71              | Corr      | 2d flr hall    |
| 215  | 1     | 96          | GH1     | 71              | Corr      | Betw 20&GH3    |
| 215  | 1     | 451         | GH2     | 71              | Corr      | Betw 18&GH3    |
| 215  | 1     | 489         | GH3     | 71              | Corr      | Betw 3&GH2     |
|      |       | 6164        |         | <b>71 Total</b> |           |                |
| 215  | 1     | 167         | 2       | 72              | Stair     | SE Stair       |
| 215  | 1     | 167         | 8       | 72              | Stair     | S Stair        |
| 215  | 1     | 167         | 19      | 72              | Stair     | SW Stair       |
| 215  | 1     | 122         | 129     | 72              | Stair     | SE Stair       |
| 215  | 1     | 167         | 130     | 72              | Stair     | S Stair        |
| 215  | 1     | 167         | 131     | 72              | Stair     | SW Stair       |
| 215  | 1     | 167         | 203     | 72              | Stair     | S Stair        |
| 215  | 1     | 167         | 204     | 72              | Stair     | SW Stair       |
| 215  | 1     | 34          | 21      | 72              | Stair     | Squash Stair   |
| 215  | 1     | 34          | 22      | 72              | Stair     | Squash Stair   |
| 215  | 1     | 45          | 25      | 72              | Stair     | To GH4         |
| 215  | 1     | 81          | 26      | 72              | Stair     | NW 175         |
| 215  | 1     | 72          | 27      | 72              | Stair     | To 7           |
|      |       | 1557        |         | <b>72 Total</b> |           |                |
| 215  | 1     | 22          | 207     | 73              | Elevator  | 2d floor       |
| 215  | 1     | 22          | 12      | 73              | Elevator  | Gnd Floor      |
| 215  | 1     | 22          | 123A    | 73              | Elevator  | First floor    |
|      |       | 66          |         | <b>73 Total</b> |           |                |
| 215  | 1     | 174         | 132     | 74              | Vestibule | NW             |
| 215  | 1     | 174         | 134     | 74              | Vestibule | NE             |
| 215  | 1     | 174         | 137     | 74              | Vestibule | SE             |
| 215  | 1     | 174         | 143     | 74              | Vestibule | SW             |
|      |       | 696         |         | <b>74 Total</b> |           |                |
|      |       | <b>8483</b> |         | <b>WW TOTAL</b> |           |                |
| 215  | 1     | 173         | 104     | 81              | Toilet M  | Locker Toilet  |
| 215  | 1     | 44          | 111     | 81              | Toilet M  | Coach Toilet   |
| 215  | 1     | 315         | 212     | 81              | Toilet M  | Men            |
| 215  | 1     | 97          | 23      | 81              | Toilet M  | Fitness Toilet |
|      |       | 629         |         | <b>81 Total</b> |           |                |
| 215  | 1     | 42          | 117     | 82              | Toilet F  | Locker Toilet  |
| 215  | 1     | 200         | 119     | 82              | Toilet F  | Women's        |
| 215  | 1     | 103         | 4       | 82              | Toilet F  | F Toilet       |
|      |       | 345         |         | <b>82 Total</b> |           |                |

HFH-Categories

3/20/98

|     |   |              |      |                     |            |                 |
|-----|---|--------------|------|---------------------|------------|-----------------|
| 215 | 1 | 50           | 109  | 83                  | Toilet Uni | Spts Med Toilet |
|     |   | 50           |      | <b>83 Total</b>     |            |                 |
| 215 | 1 | 28           | 118  | 84                  | Cust       | Cust            |
| 215 | 1 | 46           | 213  | 84                  | Cust       | Cust            |
|     |   | 74           |      | <b>84 Total</b>     |            |                 |
| 215 | 1 | 1738         | 142  | 85                  | Maint sto  | Seating Storage |
| 215 | 1 | 60           | 148  | 85                  | Maint sto  | Electronics     |
| 215 | 1 | 107          | 14   | 85                  | Maint sto  | MR2 Sto         |
| 215 | 1 | 18           | 102  | 85                  | Maint Sto  | Sto Pool Vac    |
|     |   | 1923         |      | <b>85 Total</b>     |            |                 |
|     |   | <b>3021</b>  |      | <b>XX TOTAL</b>     |            |                 |
| 215 | 1 | 169          | 133A | 92                  | Mach       | North Sto       |
| 215 | 1 | 512          | 133B | 92                  | Mach       | North Sto       |
| 215 | 1 | 522          | 133C | 92                  | Mach       | North Sto       |
| 215 | 1 | 183          | 133D | 92                  | Mach       | North Sto       |
| 215 | 1 | 272          | 136A | 92                  | Mach       | Cust Sto        |
| 215 | 1 | 426          | 136B | 92                  | Mach       | S Sto           |
| 215 | 1 | 715          | 136C | 92                  | Mach       | S Sto           |
| 215 | 1 | 394          | 139  | 92                  | Mach       | W Mech Rm       |
| 215 | 1 | 153          | 202  | 92                  | Mach       | Above 175A      |
| 215 | 1 | 22           | 211  | 92                  | Mach       | Mechanical      |
| 215 | 1 | 1061         | 214  | 92                  | Mach       | Mech            |
| 215 | 1 | 1567         | 1    | 92                  | Mach       | Mech            |
| 215 | 1 | 192          | 7    | 92                  | Mach       | Mech            |
| 215 | 1 | 413          | 09A  | 92                  | Mach       | Behind Pool     |
| 215 | 1 | 725          | 18   | 92                  | Mach       | Elect           |
| 215 | 1 | 18           | 15   | 92                  | Mach       | space in Fitnes |
| 215 | 1 | 133          | GH4  | 92                  | Mach       | NW 20           |
|     |   | 7477         |      | <b>92 Total</b>     |            |                 |
| 215 | 1 | 119          | 11   | 93                  | Elevator   | Elev Machine    |
|     |   | 119          |      | <b>93 Total</b>     |            |                 |
|     |   | <b>7596</b>  |      | <b>YY TOTAL</b>     |            |                 |
| 215 | G | 4741         | 000  | 0000                | ZZ         | Structural      |
|     |   | <b>4741</b>  |      | <b>ZZ TOTAL</b>     |            |                 |
|     |   | <b>23841</b> |      | <b>TOTAL NONASF</b> |            |                 |
| 215 | 1 | 1194         | 220  | 110                 | Classrm    | ROTC            |
| 215 | 1 | 1194         | 230  | 110                 | Classrm    | Phys Ed         |
|     |   | 2388         |      | <b>110 Total</b>    |            |                 |
| 215 | 1 | 126          | 125  | 305                 | Fac Off    | Assoc Dir       |
| 215 | 1 | 70           | 165  | 305                 | Fac Off    | Asst Coach      |
| 215 | 1 | 126          | 135  | 305                 | Fac Off    | Coach           |
| 215 | 1 | 126          | 145  | 305                 | Fac Off    | Coach           |
| 215 | 1 | 126          | 155  | 305                 | Fac Off    | Coach           |
| 215 | 1 | 153          | 175A | 305                 | Fac Off    | Swim Coach      |
| 215 | 1 | 115          | 215  | 305                 | Fac Off    | Coach           |
| 215 | 1 | 115          | 215A | 305                 | Fac Off    | Coach           |

|     |   |             |      |             |              |                  |
|-----|---|-------------|------|-------------|--------------|------------------|
| 215 | 1 | 135         | 205  | 305         | Fac Off      | Coach            |
| 215 | 1 | 248         | 210  | 305         | Fac Off      | Coach            |
| 215 | 1 | 104         | 20A  | 305         | Fac Off      | Coach            |
| 215 | 1 | 504         | 231A | 305         | Fac Off      | Asst Coaches     |
|     |   | 1948        |      | <b>305</b>  | <b>Total</b> |                  |
| 215 | 1 | 14          | 208  | 310         | Fac Off Svc  | Closet in 205    |
| 215 | 1 | 14          | 209  | 310         | Fac Off Svc  | Closet in 215A   |
| 215 | 1 | 30          | 16   | 310         | Fac Off Svc  | Fitness Closet   |
|     |   | 58          |      | <b>310</b>  | <b>Total</b> |                  |
| 215 | 1 | 229         | 105  | 315         | Admin        | Dir Ath          |
| 215 | 1 | 68          | 107  | 315         | Admin        | Sports Med Off   |
| 215 | 1 | 150         | 100A | 315         | Admin        | Sports Med Off   |
|     |   | 447         |      | <b>315</b>  | <b>Total</b> |                  |
| 215 | 1 | 214         | 105A | 325         | Clerical     | Dir Secy         |
| 215 | 1 | 41          | 185  | 325         | Clerical     | Mail Room        |
| 215 | 1 | 619         | 231  | 325         | Clerical     | Ft ball Secy     |
|     |   | 874         |      | <b>325</b>  | <b>Total</b> |                  |
| 215 | 1 | 105         | 13   | 335         | Grad Asst    | Fitness Ctr      |
|     |   | 105         |      | <b>335</b>  | <b>Total</b> |                  |
| 215 | 1 | 127         | 115  | 365         | Conf rm      | Conf Rm - DoA    |
| 215 | 1 | 149         | 216  | 365         | Conf Rm      | Conf Rm FB       |
|     |   | 276         |      | <b>365</b>  | <b>Total</b> |                  |
|     |   | <b>3708</b> |      | <b>300</b>  | <b>TOTAL</b> |                  |
| 215 | 1 | 610         | 108  | 540         | Clinic       | Sports Med       |
| 215 | 1 | 1446        | 100  | 540         | Clinic       | Sports Med       |
|     |   | 2056        |      | <b>540</b>  | <b>Total</b> |                  |
| 215 | 1 | 7140        | 175  | 520A        | Ath-PE-Int   | Swm Pool         |
| 215 | 1 | 33832       | 138  | 520A        | Ath-PE-Int   | Arena            |
| 215 | 1 | 3570        | 200  | 520A        | Ath-PE-Int   | Wrestling        |
| 215 | 1 | 594         | 10A  | 520A        | Ath-PE-Int   | Squash           |
| 215 | 1 | 594         | 10B  | 520A        | Ath-PE-Int   | Squash           |
| 215 | 1 | 594         | 10C  | 520A        | Ath-PE-Int   | Squash           |
| 215 | 1 | 594         | 10D  | 520A        | Ath-PE-Int   | Squash           |
| 215 | 1 | 5694        | 20   | 520A        | Ath-PE-Int   | Fitness Ctr      |
|     |   | 52612       |      | <b>520A</b> | <b>Total</b> |                  |
| 215 | 1 | 756         | 138N | 520B        | Ath Seat-Int | N Bleach         |
| 215 | 1 | 756         | 138S | 520B        | Ath Seat-Int | S Bleach         |
|     |   | 1512        |      | <b>520B</b> | <b>Total</b> |                  |
| 215 | 1 | 18          | 103  | 520C        | Ath Svc-Int  | Swm Sto          |
| 215 | 1 | 859         | 106  | 520C        | Ath Svc-Int  | M Varsity Locker |
| 215 | 1 | 44          | 112  | 520C        | Ath Svc-Int  | Coach Shower     |
| 215 | 1 | 171         | 113  | 520C        | Ath Svc-Int  | Coach Locker     |
| 215 | 1 | 398         | 116  | 520C        | Ath Svc-Int  | F Varsity Locker |
| 215 | 1 | 63          | 116A | 520C        | Ath Svc-Int  | Sto              |
| 215 | 1 | 377         | 121  | 520C        | Ath Svc-Int  | Equip Rm         |
| 215 | 1 | 1881        | 127  | 520C        | Ath Svc-Int  | M Locker         |



HFH-Categories

3/20/98

|     |   |       |     |                    |             |             |
|-----|---|-------|-----|--------------------|-------------|-------------|
| 215 | 1 | 599   | 144 | 520C               | Ath Svc-Int | M Shower    |
| 215 | 1 | 466   | 3   | 520C               | Ath Svc-Int | F Locker    |
| 215 | 1 | 107   | 6   | 520C               | Ath Svc-Int | F Shower    |
| 215 | 1 | 408   | 9   | 520C               | Ath Svc-Int | Laundry     |
| 215 | 1 | 66    | 114 | 520C               | Ath Svc-Int | Trophy case |
| 215 | 1 | 60    | 24  | 520C               | Ath Svc-Int | Fitness Sto |
|     |   | 5517  |     | <b>520C Total</b>  |             |             |
|     |   | 59641 |     | <b>520 Total</b>   |             |             |
|     |   | 67793 |     | <b>TOTAL ASF</b>   |             |             |
|     |   | 91634 |     | <b>GROSS SQ FT</b> |             |             |

# FACILITIES MANAGEMENT BUILDING DATA

27-May-97

|  |  |  |
|--|--|--|
| <b>University:</b>                     | SHIPPENSBURG   |  |
| <b>Site:</b>                           | SHIPPENSBURG   |  |
| <b>Name of Building</b>                | HENDERSON GYM  | <b>Building No.:</b> 210                           |
| <b>Address</b>                         | HENDERSON DRIVE  |  |
| <b>Building Type:</b>                  | E  | <i>E: Educational/General A: Auxiliary B: Both</i> |
| <b>Ownership:</b>                      | C  | <i>U: University C: Commonwealth</i>               |
| <b>Replacement Cost:</b> 4198224       | <b>Year of Construction:</b>   | 1937   |
|  | <b>or Year of Acquisition:</b>   | 1937   |
| <b>Year of Last Renovation:</b>        |  | <b>Building Function:</b> ATHLETICS                |
| <b>Disabled Access to Building</b> YES |  |  |
| <b>Building Condition</b> 4            | <i>1. Satisfactory    2. Remodeling A - Not major</i><br><i>3. Remodeling    B - Major modernization</i><br><i>4. Remodeling    C - Major building remodeling</i><br><i>5. Demolition    6. Termination:</i> |  |
| <b>Type of Construction:</b>           | STEEL, BRICK   |  |
| <b>Landmark Status:</b>                | NO   | <i>Y: Yes N: No E: Eligible</i>                    |
| <b>Original Building Cost:</b> 263000  | <b>Cost of Last Major Renovation</b>   |  |
|  | <b>or Value at Acquisition:</b> 263000   |  |

## Data to be Provided by Survey Team

|                          |  |                            |
|--------------------------|--|----------------------------|
| <b>Gross Area:</b> 36250 | <b>Assignable Area:</b> <del>25348</del> | <b>Number of floors:</b> 2 |
| OK (3/20/93)             | 22089 (3/20/98)                          |                            |

| B NO | FLOOR | FLOOR AREA | ROOM NO | USE CODE | USE         | FUNCTION      |
|------|-------|------------|---------|----------|-------------|---------------|
| 210  | B     | 5581       | 000     | 0000     | ZZ          | Structural    |
| 210  | B     | 891        | 001     | 92       | Machine     | Mech          |
| 210  | B     | 74         | 004     | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 12         | 004A    | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 12         | 004B    | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 205        | 005     | 520C     | Ath Svc-Int | Shower F      |
| 210  | B     | 205        | 006     | 520C     | Ath Svc-Int | Shower M      |
| 210  | B     | 164        | 007     | 81       | Toilet M    | Men           |
| 210  | B     | 164        | 008     | 82       | Toilet F    | Women         |
| 210  | B     | 1407       | 010     | 71       | Corr        | Basement hall |
| 210  | B     | 950        | 017     | 520C     | Ath Svc-Int | Lockers M     |
| 210  | B     | 864        | 017A    | 520A     | Ath-PE-Int  | Boxing rm     |
| 210  | B     | 1814       | 018     | 520C     | Ath Svc-Int | Lockers F     |
| 210  | B     | 214        | 019     | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 79         | 019A    | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 79         | 020     | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 214        | 020A    | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 44         | 021     | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 44         | 023     | 520C     | Ath Svc-Int | Sto           |
| 210  | B     | 74         | 103     | 84       | Cust        | Cust          |
| 210  | B     | 12         | 103A    | 84       | Cust        | Cust          |
| 210  | B     | 12         | 103B    | 84       | Cust        | Cust          |
| 210  | B     | 233        | BF1     | 72       | Stair       | Basement Int  |
| 210  | B     | 233        | BF2     | 72       | Stair       | Basement Int  |
| 210  | B     | 27         | BJ1     | 84       | Cust        | Cust          |
| 210  | B     | 27         | BJ2     | 84       | Cust        | Cust          |
| 210  | SB    | 318        | 025     | 74       | Vestibule   | Basement West |
| 210  | SB    | 323        | 026     | 72       | Stair       | Basement West |
| 210  | SB    | 323        | 026A    | 72       | Stair       | Basement West |
| 210  | SB    | 180        | 027     | 71       | Corr        | Betw 29&30    |
| 210  | SB    | 324        | 027A    | 520C     | Ath Svc-Int | Sto           |
| 210  | SB    | 295        | 028     | 540      | Clinic      | Sport Med     |
| 210  | SB    | 195        | 029     | 540      | Clinic      | Sport Med     |
| 210  | SB    | 134        | 030     | 520C     | Ath Svc-Int | Laundry       |
| 210  | SB    | 48         | 032     | 92       | Machine     | Mech          |
| 210  | SB    | .96        | 033     | 315      | Admin       | Sport Med Off |
| 210  | 1     | 7475       | 034     | 520A     | Ath-PE-Int  | Gymnasium     |
| 210  | 1     | 4836       | 035     | 520A     | Ath-PE-Int  | Pool          |
| 210  | 1     | 142        | 036     | 81       | Toilet M    | Men           |
| 210  | 1     | 15         | 036A    | 84       | Cust        | Cust sto      |
| 210  | 1     | 148        | 037     | 82       | Toilet F    | Women         |
| 210  | 1     | 590        | 038     | 71       | Corr        | Portico       |
| 210  | 1     | 1021       | 039     | 74       | Vestibule   | Main Lobby    |
| 210  | 1     | 33         | 040     | 520C     | Ath Svc-Int | Ticket Booth  |
| 210  | 1     | 89         | 041     | 84       | Cust        | Cust          |

|     |   |       |      |      |             |                |
|-----|---|-------|------|------|-------------|----------------|
| 210 | 1 | 319   | 043  | 74   | Vestibule   | Gymnasium entr |
| 210 | 1 | 1426  | 050  | 520A | Ath-PE-Int  | Small gym      |
| 210 | 1 | 966   | 051  | 110  | Classrm     | Phys ed.       |
| 210 | 1 | 189   | 051A | 325  | Admin       | Dept Secy      |
| 210 | 1 | 189   | 051B | 315  | Admin       | Dept Chair     |
| 210 | 1 | 612   | 107  | 71   | Corr        | Lobby          |
| 210 | 1 | 93    | 107A | 305  | Fac Off     | Prof           |
| 210 | 1 | 93    | 107B | 305  | Fac Off     | Prof           |
| 210 | 1 | 93    | 107C | 305  | Fac Off     | Prof           |
| 210 | 1 | 93    | 107D | 305  | Fac Off     | Prof           |
| 210 | 1 | 140   | 109  | 84   | Cust        | Cust           |
| 210 | 1 | 190   | 109A | 520C | Ath Svc-Int | Sto            |
| 210 | 1 | 383   | 1H1  | 71   | Corr        | 109 to Ext     |
| 210 | 1 | 309   | 1H2  | 71   | Corr        | Betw 39&51     |
| 210 | 2 | 279   | 201  | 305  | Fac off     | Coach          |
| 210 | 2 | 279   | 202  | 305  | Fac off     | Coach          |
| 210 | 2 | 130   | 203  | 81   | Toilet M    | Men            |
| 210 | 2 | 130   | 204  | 82   | Toilet F    | Women          |
| 210 | 2 | 117   | 205  | 92   | Machine     | Mech           |
|     |   | 36250 |      |      |             |                |

| B NO | FLOOR | FLOOR AREA  | ROOM NO | USE CODE            | USE       | FUNCTION       |
|------|-------|-------------|---------|---------------------|-----------|----------------|
| 210  | B     | 1407        | 010     | 71                  | Corr      | Basement hall  |
| 210  | SB    | 180         | 027     | 71                  | Corr      | Betw 29&30     |
| 210  | 1     | 590         | 038     | 71                  | Corr      | Portico        |
| 210  | 1     | 612         | 107     | 71                  | Corr      | Lobby          |
| 210  | 1     | 383         | 1H1     | 71                  | Corr      | 109 to Ext     |
| 210  | 1     | 309         | 1H2     | 71                  | Corr      | Betw 39&51     |
|      |       | 3481        |         | <b>71 Total</b>     |           |                |
| 210  | B     | 233         | BF1     | 72                  | Stair     | Basement Int   |
| 210  | B     | 233         | BF2     | 72                  | Stair     | Basement Int   |
| 210  | SB    | 323         | 026     | 72                  | Stair     | Basement West  |
| 210  | SB    | 323         | 026A    | 72                  | Stair     | Basement West  |
|      |       | 1112        |         | <b>72 Total</b>     |           |                |
| 210  | SB    | 318         | 025     | 74                  | Vestibule | Basement West  |
| 210  | 1     | 1021        | 039     | 74                  | Vestibule | Main Lobby     |
| 210  | 1     | 319         | 043     | 74                  | Vestibule | Gymnasium entr |
|      |       | 1658        |         | <b>74 Total</b>     |           |                |
|      |       | <b>6251</b> |         | <b>WW TOTAL</b>     |           |                |
| 210  | B     | 164         | 007     | 81                  | Toilet M  | Men            |
| 210  | 1     | 142         | 036     | 81                  | Toilet M  | Men            |
| 210  | 2     | 130         | 203     | 81                  | Toilet M  | Men            |
|      |       | 436         |         | <b>81 Total</b>     |           |                |
| 210  | B     | 164         | 008     | 82                  | Toilet F  | Women          |
| 210  | 1     | 148         | 037     | 82                  | Toilet F  | Women          |
| 210  | 2     | 130         | 204     | 82                  | Toilet F  | Women          |
|      |       | 442         |         | <b>82 Total</b>     |           |                |
| 210  | B     | 74          | 103     | 84                  | Cust      | Cust           |
| 210  | B     | 12          | 103A    | 84                  | Cust      | Cust           |
| 210  | B     | 12          | 103B    | 84                  | Cust      | Cust           |
| 210  | B     | 27          | BJ1     | 84                  | Cust      | Cust           |
| 210  | B     | 27          | BJ2     | 84                  | Cust      | Cust           |
| 210  | 1     | 15          | 036A    | 84                  | Cust      | Cust sto       |
| 210  | 1     | 89          | 041     | 84                  | Cust      | Cust           |
| 210  | 1     | 140         | 109     | 84                  | Cust      | Cust           |
|      |       | 396         |         | <b>84 Total</b>     |           |                |
|      |       | 1274        |         | <b>XX TOTAL</b>     |           |                |
| 210  | B     | 891         | 001     | 92                  | Machine   | Mech           |
| 210  | SB    | 48          | 032     | 92                  | Machine   | Mech           |
| 210  | 2     | 117         | 205     | 92                  | Machine   | Mech           |
|      |       | 1056        |         | <b>92 Total</b>     |           |                |
|      |       | 1056        |         | <b>YY TOTAL</b>     |           |                |
| 210  | B     | 5581        | 000     | 0000                | ZZ        | Structural     |
|      |       | 5581        |         | <b>ZZ TOTAL</b>     |           |                |
|      |       | 14162       |         | <b>TOTAL NONASF</b> |           |                |
| 210  | 1     | 966         | 051     | 110                 | Classrm   | Phys ed.       |
|      |       | 966         |         | <b>110 Total</b>    |           |                |

|     |    |              |      |                    |             |               |
|-----|----|--------------|------|--------------------|-------------|---------------|
| 210 | 1  | 93           | 107A | 305                | Fac Off     | Prof          |
| 210 | 1  | 93           | 107B | 305                | Fac Off     | Prof          |
| 210 | 1  | 93           | 107C | 305                | Fac Off     | Prof          |
| 210 | 1  | 93           | 107D | 305                | Fac Off     | Prof          |
| 210 | 2  | 279          | 201  | 305                | Fac off     | Coach         |
| 210 | 2  | 279          | 202  | 305                | Fac off     | Coach         |
|     |    | 930          |      | <b>305 Total</b>   |             |               |
| 210 | SB | 96           | 033  | 315                | Admin       | Sport Med Off |
| 210 | 1  | 189          | 051B | 315                | Admin       | Dept Chair    |
|     |    | 285          |      | <b>315 Total</b>   |             |               |
| 210 | 1  | 189          | 051A | 325                | Admin       | Dept Secy     |
|     |    | 189          |      | <b>325 Total</b>   |             |               |
|     |    | <b>1404</b>  |      | <b>300 TOTAL</b>   |             |               |
| 210 | SB | 295          | 028  | 540                | Clinic      | Sport Med     |
| 210 | SB | 195          | 029  | 540                | Clinic      | Sport Med     |
|     |    | 490          |      | <b>540 Total</b>   |             |               |
| 210 | B  | 864          | 017A | 520A               | Ath-PE-Int  | Boxing rm     |
| 210 | 1  | 7475         | 034  | 520A               | Ath-PE-Int  | Gymnasium     |
| 210 | 1  | 4836         | 035  | 520A               | Ath-PE-Int  | Pool          |
| 210 | 1  | 1426         | 050  | 520A               | Ath-PE-Int  | Small gym     |
|     |    | 14601        |      | <b>520A Total</b>  |             |               |
| 210 | B  | 74           | 004  | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 12           | 004A | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 12           | 004B | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 205          | 005  | 520C               | Ath Svc-Int | Shower F      |
| 210 | B  | 205          | 006  | 520C               | Ath Svc-Int | Shower M      |
| 210 | B  | 950          | 017  | 520C               | Ath Svc-Int | Lockers M     |
| 210 | B  | 1814         | 018  | 520C               | Ath Svc-Int | Lockers F     |
| 210 | B  | 214          | 019  | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 79           | 019A | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 79           | 020  | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 214          | 020A | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 44           | 021  | 520C               | Ath Svc-Int | Sto           |
| 210 | B  | 44           | 023  | 520C               | Ath Svc-Int | Sto           |
| 210 | SB | 324          | 027A | 520C               | Ath Svc-Int | Sto           |
| 210 | SB | 134          | 030  | 520C               | Ath Svc-Int | Laundry       |
| 210 | 1  | 33           | 040  | 520C               | Ath Svc-Int | Ticket Booth  |
| 210 | 1  | 190          | 109A | 520C               | Ath Svc-Int | Sto           |
|     |    | 4627         |      | <b>520C Total</b>  |             |               |
|     |    | <b>19228</b> |      | <b>520 TOTAL</b>   |             |               |
|     |    | <b>22088</b> |      | <b>TOTAL ASF</b>   |             |               |
|     |    | <b>36250</b> |      | <b>GROSS SQ FT</b> |             |               |

# FACILITIES MANAGEMENT BUILDING DATA

27-May-97

University: SHIPPENSBURG  
Site: SHIPPENSBURG  
Name of Building: SETH GROVE GRANDSTAND      Building No.: 216  
Address: STADIUM ACCESS ROAD

Building Type: E      *E: Educational/General A: Auxiliary B: Both*  
Ownership: C      *U: University C: Commonwealth*  
Replacement Cost: 2091183      Year of Construction: 1972  
or Year of Acquisition: 1972

Year of Last Renovation:      Building Function: ATHLETICS  
Disabled Access to Building: YES

Building Condition: 3      *1. Satisfactory 2. Remodeling A - Not major*  
*3. Remodeling B - Major modernization*  
*4. Remodeling C - Major building remodeling*  
*5. Demolition 6. Termination:*

Type of Construction: MASON WALL, STEEL  
Landmark Status: NO      *Y:Yes N:No E:Eligible*

Original Building Cost: 700000      Cost of Last Major Renovation  
or Value at Acquisition: 700000

## Data to be Provided by Survey Team

Gross Area: 19257      Assignable Area: 8538      Number of floors: 2

BUILDING AREA REPORT  
REPORT FOR : SETH GROVE GRANDSTAND

Part A - BUILDING CHARACTERISTICS

BUILDING NAME : SETH GROVE GRANDSTAND  
BUILDING NUMBER : 216  
GROSS SQUARE FEET : 19,257

Part B - ROOM USE

| SERIES                             | SQ. FT               |
|------------------------------------|----------------------|
| <u>300 SERIES</u>                  |                      |
| 315 ADMINISTRATIVE OFFICE          | 428                  |
| <u>500 SERIES</u>                  |                      |
| 530 AUDIO/VISUAL, RADIO TV         | 383                  |
| 525 ATHELETIC/PHYSICAL EDU SERVICE | 3,284 <i>302 126</i> |
| <u>600 SERIES</u>                  |                      |
| 630 FOOD FACILITIES                | 862                  |
| 635 FOOD FACILITIES SERVICE        | 77                   |
| <u>700 SERIES</u>                  |                      |
| 730 STORAGE                        | 3,504                |
| <u>OTHERS</u>                      |                      |
| <u>70 SERIES CIRCULATION</u>       |                      |
| 71 CORRIDOR                        | 1,150                |
| <u>80 SERIES BUILDING SYSTEMS</u>  |                      |
| 83 RESTROOM UNISEX                 | 164                  |
| 82 RESTROOM FEMALE                 | 985                  |
| 81 RESTROOM MALE                   | 1,440                |
| 84 CUSTODIAL                       | 139                  |
| <u>90 SERIES MECHANICAL</u>        |                      |

*2728*



|                        |        |
|------------------------|--------|
| 92 MACHINE             | 1,208  |
| <u>STRUCTURAL</u>      | 5,633  |
| -TOTAL ASSIGNABLE AREA | 8,538  |
| -NON ASSIGNABLE AREA   | 10,719 |

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|                       |        |
|-----------------------|--------|
| TOTAL GROSS FEET AREA | 19,257 |
|-----------------------|--------|

| NO  | FLOOR | FLOOR AREA | ROOM NO | DEPT | USE CODE |
|-----|-------|------------|---------|------|----------|
|     | G     | 408        | 09      |      | 92       |
|     | G     | 413        | 09A     |      | 92       |
| 5   | G     | 594        | 10A     |      | 520      |
|     | G     | 594        | 10B     |      | 520      |
|     | G     | 594        | 10C     |      | 520      |
| 15  | G     | 594        | 10D     |      | 620      |
|     | G     | 119        | 11      |      | 93       |
|     | G     | 105        | 12      |      | 325      |
| 15  | G     | 107        | 14      |      | 81       |
| 15  | G     | 725        | 15      |      | 92       |
|     | G     | 5694       | 17      |      | 520      |
|     | G     | 28         | 18      |      | 730      |
| 15  | G     | 167        | 19      |      | 72       |
|     | G     | 369        | 22      |      | 71       |
|     | G     | 96         | GH1     |      | 71       |
| 15  | G     | 451        | GH2     |      | 71       |
| 15  | G     | 489        | GH3     |      | 71       |
|     | G     | 261        | 7       |      | 92       |
| 16  | 01    | 72         | 100A    |      | 530      |
| 16  | 01    | 59         | 100B    |      | 530      |
| 5   | 01    | 252        | 101     |      | 530      |
| 5   | G     | 222        | 02      |      | 315      |
| 16  | G     | 430        | 03      |      | 630      |
| 5   | G     | 42         | 04      |      | 83       |
| 5   | G     | 530        | 05      |      | 82       |
| 16  | G     | 580        | 06      |      | 81       |
| 16  | G     | 70         | 07      |      | 84       |
| 6   | G     | 112        | 08      |      | 690      |
| 16  | G     | 80         | 09      |      | 83       |
| 16  | G     | 283        | 11      |      | 525      |
| 2   | G     | 315        | 12      |      | 525      |
| 2   | G     | 90         | 13      |      | 730      |
| 216 | G     | 117        | 13A     |      | 71       |
| 6   | G     | 682        | 14A     |      | 525      |
| 6   | G     | 206        | 14B     |      | 315      |
| 216 | G     | 403        | 15      |      | 92       |
| 216 | G     | 414        | 16      |      | 92       |
| 6   | G     | 391        | 17      |      | 92       |
| 16  | G     | 556        | 18A     |      | 730      |
| 216 | G     | 282        | 18B     |      | 690      |
| 6   | G     | 951        | 19      |      | 690      |
| 6   | G     | 75         | 20      |      | 690      |
| 216 | G     | 280        | 21      |      | 81       |
| 16  | G     | 268        | 22      |      | 690      |
| 16  | G     | 116        | 23      |      | 690      |
| 216 | G     | 158        | 24A     |      | 690      |
| 216 | G     | 42         | 24B     |      | 84       |
| 16  | G     | 69         | 25      |      | 81       |
| 16  | G     | 580        | 26      |      | 82       |
| 216 | G     | 455        | 27      |      | 83       |
| 16  | G     | 42         | 28      |      | 730      |
| 16  | G     | 222        | 30      |      | 630      |
| 216 | G     | 432        | 31A     |      | 630      |

⇒ 660 8 3/4/7

525

525

525

⇒ 660 8

| NO  | FLOOR | FLOOR AREA | ROOM NO | DEPT | USE CODE |
|-----|-------|------------|---------|------|----------|
| 16  | G     | 77         | 31B     |      | 635      |
| 16  | G     | 1185       | 32      |      | 730      |
| 216 | G     | 341        | 33A     |      | 730      |
| 16  | G     | 447        | 33B     |      | 730      |
| 16  | G     | 663        | 33C     |      | 730      |
| 216 | G     | 1033       | 40      |      | 71       |
| 20  | 01    | 1688       | 100     |      | 630      |
| 20  | 01    | 7688       | 101     |      | 630      |
| 320 | 01    | 795        | 102A    |      | 635      |
| 320 | 01    | 1634       | 102B    |      | 630      |
| 20  | 01    | 147        | 103     |      | 82       |
| 20  | 01    | 31         | 104     |      | 74       |
| 320 | 01    | 293        | 106     |      | 635      |
| 20  | 01    | 322        | 109     |      | 635      |
| 20  | 01    | 127        | 110     |      | 81       |
| 320 | 01    | 36         | 111     |      | 84       |
| 20  | 01    | 152        | 114     |      | 82       |
| 20  | 01    | 59         | 115     |      | 635      |
| 320 | 01    | 45         | 116     |      | 635      |
| 320 | 01    | 55         | 117     |      | 635      |
| 320 | 01    | 54         | 118     |      | 635      |
| 320 | 01    | 86         | 119     |      | 650      |
| 320 | 01    | 9          | 120     |      | 84       |
| 320 | 01    | 160        | 121     |      | 630      |
| 320 | 01    | 65         | 123     |      | 71       |
| 320 | 01    | 571        | 124     |      | 635      |
| 320 | 01    | 88         | 125     |      | 635      |
| 320 | 01    | 88         | 126     |      | 315      |
| 320 | 01    | 9          | 128     |      | 320      |
| 320 | 01    | 7          | 129     |      | 635      |
| 320 | 01    | 108        | 130     |      | 71       |
| 320 | 01    | 117        | 131     |      | 71       |
| 320 | G     | 488        | 01      |      | 735      |
| 320 | G     | 416        | 02A     |      | 71       |
| 320 | G     | 558        | 02B     |      | 735      |
| 320 | G     | 343        | 02C     |      | 71       |
| 320 | G     | 129        | 03      |      | 81       |
| 320 | G     | 136        | 05      |      | 92       |
| 320 | G     | 76         | 06      |      | 635      |
| 320 | G     | 36         | 07      |      | 730      |
| 320 | G     | 68         | 08      |      | 93       |
| 320 | G     | 65         | 09      |      | 730      |
| 320 | G     | 763        | 10      |      | 730      |
| 320 | G     | 296        | 11      |      | 71       |
| 320 | G     | 84         | 12      |      | 635      |
| 320 | G     | 85         | 13      |      | 635      |
| 320 | G     | 6939       | 14      |      | 730      |
| 320 | G     | 176        | 15      |      | 730      |
| 320 | G     | 176        | 16      |      | 635      |
| 320 | G     | 273        | 17      |      | 635      |
| 320 | G     | 1302       | 18      |      | 730      |
| 320 | G     | 630        | 19      |      | 92       |
| 320 | G     | 150        | 20      |      | 91       |

635 → 655 8/1-97

# FACILITIES MANAGEMENT BUILDING DATA

27-May-97

|                                       |                                      |  |
|---------------------------------------|--------------------------------------|--|
| <b>University:</b>                    | SHIPPENSBURG                         |  |
| <b>Site:</b>                          | SHIPPENSBURG                         |  |
| <b>Name of Building</b>               | FACULTY OFFICE BLD.                  | <b>Building No.:</b> 15  |
| <b>Address</b>                        | DAUPHIN DRIVE                        |  |
| <b>Building Type:</b>                 | E                                    | <i>E: Educational/General A: Auxiliary B: Both</i>   |
| <b>Ownership:</b>                     | C                                    | <i>U: University C: Commonwealth</i>   |
| <b>Replacement Cost:</b> 625670       | <b>Year of Construction:</b>         | 1970   |
|                                       | <b>or Year of Acquisition:</b>       | 1970   |
| <b>Year of Last Renovation:</b>       | <b>Building Function:</b>            | OFFICES  |
| <b>Disabled Access to Building</b>    | YES                                  |  |
| <b>Building Condition</b>             | 4                                    | <i>1. Satisfactory    2. Remodeling A - Not major</i><br><i>3. Remodeling    B - Major modernization</i><br><i>4. Remodeling    C - Major building remodeling</i><br><i>5. Demolition    6. Termination:</i> |
| <b>Type of Construction:</b>          | METAL FRAME                          |  |
| <b>Landmark Status:</b>               | NO                                   | <i>F: Yes N: No E: Eligible</i>  |
| <b>Original Building Cost:</b> 153000 | <b>Cost of Last Major Renovation</b> |  |
|                                       | <b>or Value at Acquisition:</b>      | 153000   |

## Data to be Provided by Survey Team

|                         |                              |                            |
|-------------------------|------------------------------|----------------------------|
| <b>Gross Area:</b> 6550 | <b>Assignable Area:</b> 4500 | <b>Number of floors:</b> 1 |
|-------------------------|------------------------------|----------------------------|

FACILITIES MANAGEMENT DATABASE

DATE : 03/03/97

PAGE\*No\*\*\*\*\*\*\*

BUILDING AREA REPORT  
 REPORT FOR : FACULTY OFFICE BLD.

Part A - BUILDING CHARACTERISTICS

BUILDING NAME : FACULTY OFFICE BLD.  
 BUILDING NUMBER : 15  
 GROSS SQUARE FEET : 6,550

Part B - ROOM USE

| SERIES                            | SQ. FT                  |
|-----------------------------------|-------------------------|
| <u>300 SERIES</u>                 |                         |
| 305 FACULTY OFFICE                | 3,626                   |
| 365 CONFERENCE ROOM               | 208                     |
| 315 ADMINISTRATIVE OFFICE         | 416                     |
| 320 ADMINISTRATIVE OFFICE SERVICE | 90                      |
| <u>700 SERIES</u>                 |                         |
| 730 STORAGE                       | 160                     |
| <u>OTHERS</u>                     |                         |
| <u>70 SERIES</u>                  | <u>CIRCULATION</u>      |
| 74 VESTIBULE                      | 35                      |
| 71 CORRIDOR                       | 1,204                   |
| <u>80 SERIES</u>                  | <u>BUILDING SYSTEMS</u> |
| 84 CUSTODIAL                      | 66                      |
| 82 RESTROOM FEMALE                | 76                      |
| 81 RESTROOM MALE                  | 122                     |
| <u>90 SERIES</u>                  | <u>MECHANICAL</u>       |
| 92 MACHINE                        | 214                     |
|                                   | <u>STRUCTURAL</u>       |
|                                   | 333                     |
| -TOTAL ASSIGNABLE AREA            | 4,500                   |

-NON ASSIGNABLE AREA

2,050

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TOTAL GROSS FEET AREA

6,550

| B NO | FLOOR | FLOOR AREA | ROOM NO | DEPT | USE CODE |
|------|-------|------------|---------|------|----------|
| 13   | G     | 566        | 09      |      | 730      |
| 13   | G     | 256        | 10      |      | 730      |
| 13   | G     | 569        | 11      |      | 730      |
| 13   | G     | 256        | 12      |      | 730      |
| 13   | G     | 665        | 19      |      | 92       |
| 13   | G     | 182        | 20      |      | 71       |
| 13   | G     | 413        | 21      |      | 92       |
| 13   | G     | 153        | 22      |      | 730      |
| 13   | G     | 200        | 23      |      | 730      |
| 13   | G     | 200        | 24      |      | 730      |
| 13   | G     | 396        | 26      |      | 92       |
| 13   | G     | 153        | 38      |      | 93       |
| 13   | G     | 789        | GH1     |      | 71       |
| 14   | 01    | 396        | 100     |      | 325      |
| 14   | 01    | 147        | 101     |      | 365      |
| 14   | 01    | 13         | 101A    |      | 370      |
| 14   | 01    | 13         | 101E    |      | 370      |
| 14   | 01    | 6          | 102     |      | 730      |
| 14   | 01    | 61         | 103     |      | 83       |
| 14   | 01    | 83         | 104     |      | 315      |
| 14   | 01    | 154        | 105     |      | 315      |
| 14   | 01    | 59         | 105A    |      | 320      |
| 14   | 01    | 5          | 106     |      | 84       |
| 14   | 01    | 7          | 107     |      | 730      |
| 14   | 01    | 97         | 109     |      | 315      |
| 14   | 01    | 100        | 110     |      | 315      |
| 14   | 01    | 140        | 111     |      | 315      |
| 14   | 01    | 9          | 111A    |      | 320      |
| 14   | 01    | 9          | 111B    |      | 320      |
| 14   | 01    | 106        | 1C1     |      | 71       |
| 14   | 01    | 66         | 1V1     |      | 74       |
| 15   | 01    | 224        | 101     |      | 315      |
| 15   | 01    | 224        | 102     |      | 315      |
| 15   | 01    | 224        | 103     |      | 315      |
| 15   | 01    | 224        | 104     |      | 315      |
| 15   | 01    | 208        | 105     |      | 315      |
| 15   | 01    | 208        | 106     |      | 315      |
| 15   | 01    | 208        | 107     |      | 315      |
| 15   | 01    | 208        | 108     |      | 315      |
| 15   | 01    | 208        | 109     |      | 315      |
| 15   | 01    | 208        | 110     |      | 315      |
| 15   | 01    | 170        | 111     |      | 315      |
| 15   | 01    | 160        | 112     |      | 315      |
| 15   | 01    | 160        | 113     |      | 315      |
| 15   | 01    | 160        | 114     |      | 315      |
| 15   | 01    | 208        | 115     |      | 315      |
| 15   | 01    | 160        | 116     |      | 315      |
| 15   | 01    | 224        | 117     |      | 315      |
| 15   | 01    | 192        | 118     |      | 315      |
| 15   | 01    | 224        | 119     |      | 315      |
| 15   | 01    | 224        | 120     |      | 315      |
| 15   | 01    | 224        | 122     |      | 315      |
| 15   | 01    | 214        | 123     |      | 92       |

P.O.

| NO | FLOOR | FLOOR AREA | ROOM NO | DEPT | USE CODE |
|----|-------|------------|---------|------|----------|
| 15 | 01    | 160        | 124     |      | 730      |
| 15 | 01    | 90         | 125     |      | 750      |
| 15 | 01    | 66         | 126     |      | 730      |
| 15 | 01    | 76         | 127     |      | 82       |
| 15 | 01    | 122        | 129     |      | 81       |
| 15 | 01    | 35         | 1H1     |      | 650      |
| 15 | 01    | 1307       | 1H2     |      | 71       |
| 16 | 01    | 766        | 01      |      | 50       |
| 16 | 01    | 27         | 02      |      | 50       |
| 17 | 01    | 279        | 101     |      | 92       |
| 17 | 01    | 200        | 102     |      | 850      |
| 17 | 01    | 236        | 103     |      | 890      |
| 17 | 01    | 326        | 104     |      | 880      |
| 17 | 01    | 232        | 105     |      | 890      |
| 17 | 01    | 28         | 107     |      | 82       |
| 17 | 01    | 197        | 108     |      | 890      |
| 17 | 01    | 111        | 109     |      | 850      |
| 17 | 01    | 23         | 110     |      | 730      |
| 17 | 01    | 111        | 111     |      | 850      |
| 17 | 01    | 175        | 112     |      | 91       |
| 17 | 01    | 188        | 113     |      | 850      |
| 17 | 01    | 101        | 114     |      | 895      |
| 17 | 01    | 125        | 115     |      | 895      |
| 17 | 01    | 89         | 117     |      | 835      |
| 17 | 01    | 61         | 118     |      | 830      |
| 17 | 01    | 133        | 119     |      | 850      |
| 17 | 01    | 152        | 120     |      | 860      |
| 17 | 01    | 28         | 121     |      | 81       |
| 17 | 01    | 203        | 122     |      | 890      |
| 17 | 01    | 111        | 123     |      | 850      |
| 17 | 01    | 23         | 124     |      | 919      |
| 17 | 01    | 111        | 125     |      | 850      |
| 17 | 01    | 90         | 126     |      | 855      |
| 17 | 01    | 23         | 126R    |      | 835      |
| 17 | 01    | 41         | 127     |      | 870      |
| 17 | 01    | 204        | 128     |      | 810      |
| 17 | 01    | 25         | 129     |      | 815      |
| 17 | 01    | 35         | 130     |      | 730      |
| 17 | 01    | 204        | 131     |      | 810      |
| 17 | 01    | 204        | 132     |      | 810      |
| 17 | 01    | 25         | 133     |      | 815      |
| 17 | 01    | 35         | 134     |      | 820      |
| 17 | 01    | 204        | 135     |      | 810      |
| 17 | 01    | 272        | 136     |      | 870      |
| 17 | 01    | 85         | 138     |      | 850      |
| 17 | 01    | 45         | 139     |      | 855      |
| 17 | 01    | 204        | 140     |      | 850      |
| 17 | 01    | 35         | 141     |      | 84       |
| 17 | 01    | 25         | 142     |      | 815      |
| 17 | 01    | 204        | 143     |      | 850      |
| 17 | 01    | 204        | 144     |      | 810      |
| 17 | 01    | 35         | 145     |      | 890      |
| 17 | 01    | 25         | 146     |      | 815      |



**APPENDIX F**  
**EXISTING FACILITIES BUILDING**  
**CONDITION ASSESSMENT**

# SHIPPENSBURG UNIVERSITY

## SU-711 HEIGES FIELD HOUSE ADDITION STUDY

### GENERAL

*Physical* The original Heiges Field House was built as a mens athletics center with some ~~Physical~~ <sup>Health</sup> and ~~Health~~ Education facilities. Constructed in 1970, the building is approaching 30 years of useful life. With the exception of limited renovations and selected space reassignments, much of the building remains as originally constructed. Generally the facility has been well maintained. The nature of some of the building's spaces has allowed modifications to accommodate changes in space use, particularly with respect to gender equity and the accommodation of additional office space.

### SITE

The site immediately around Heiges Field House contains two limited parking areas and access sidewalks. The concrete sidewalks, particularly the steps are in need of selective repair. The lawn and landscaping has been nicely maintained, although it could be enhanced by addition of feature trees and landscaping in front of the building. The parking area to the east of the building is heavily used and appears to be commuter student parking. Access to this parking lot is cumbersome. The parking to the north of the Arena is less utilized and appears to be reserved for faculty. Access to the building from the north parking lot is not ideal since all pedestrian traffic enters through the Main Arena activity area. During any special event, parking quantities are far from adequate. Furthermore, access from the available parking areas to the "front" entrances is not direct.

### BUILDING ENCLOSURE & STRUCTURE

The exterior enclosure of building is generally in sound shape. Construction of the Main Arena is a combination of precast concrete panels covered with metal siding which appears to be sound and watertight and a roof structure of arched laminated wood beams and solid wood decking. The remaining portion of the building is brick and block construction with precast panels around the top of the wall. The only observable concern is the sign of efflorescence on the east walls of the Naditorium, which suggest that moisture is migrating through the wall from the high humidity space of the pool. The roof currently is being well maintained and was replaced under normal maintenance approximately <sup>ten</sup> ~~eight~~ years ago. In the past however, the Main Arena area experienced roof leaks, which partially rotted the wood roof deck and structure. Continued proper maintenance should allow the roof to last five to eight more years.

The main structure of the office, locker room and support activities area of the building is a combination of cast in place concrete and precast concrete. The structure was observed to be sound and stable. The unique structure of the Main Arena, long span laminated wood arch and shell, was observed to be sound and stable, but was reported to have experienced some problems in the past, which have been addressed and are being monitored by the University.

### MECHANICAL SYSTEMS

Heiges Field House was reported to be at capacity for all its mechanical support systems. University facilities staff indicated that there is no available capacity on the water, sewer, or HVAC systems. Furthermore, most of the major central mechanical equipment is at

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

the end of its useful life expectancy and is in need of complete replacement just to maintain existing capacity and operations. Mechanical system life expectancies are approximately 25 years. By the time the alteration and addition project are reality the systems will be over 30 years old, therefore, requiring complete replacement.

2

**ELECTRICAL SYSTEMS**

The electrical service to the building is also close to capacity and will not support a significant addition to the facility. Throughout the building the distribution system is certainly not up to contemporary standards for support of computers and related multimedia systems. Specifically, distribution of higher voltages to the Arena area for special event production is non existent, requiring rental of generators when large concert type sound and light systems are desired. Also, support of concession systems requiring electrical connections for refrigeration and cooking are well below acceptable levels and in areas not designed for that use.

Except for the Main Arena, which has had its' lighting system upgraded and modernized, the building still has its original lighting system. The proposed alteration project should include upgrading of lighting systems which will provide better lighting and more efficient operations.

**APPENDIX F**

**EXISTING FACILITIES BUILDING  
CONDITION ASSESSMENT**

# SHIPPENSBURG UNIVERSITY

## SU-711 HEIGES FIELD HOUSE ADDITION STUDY

### GENERAL

The original Heiges Field House was built as a men's athletics center with some Physical and Health Education facilities. Constructed in 1970, the building is approaching 30 years of useful life. With the exception of limited renovations and selected space reassignments, much of the building remains as originally constructed. Generally the facility has been well maintained. The nature of some of the building's spaces has allowed modifications to accommodate changes in space use, particularly with respect to gender equity and the accommodation of additional office space.

### SITE

The site immediately around Heiges Field House contains two limited parking areas and access sidewalks. The concrete sidewalks, particularly the steps are in need of selective repair. The lawn and landscaping has been nicely maintained, although it could be enhanced by addition of feature trees and landscaping in front of the building. The parking area to the east of the building is heavily used and appears to be commuter student parking. Access to this parking lot is cumbersome. The parking to the north of the Arena is less utilized and appears to be reserved for faculty. Access to the building from the north parking lot is not ideal since all pedestrian traffic enters through the Main Arena activity area. During any special event, parking quantities are far from adequate. Furthermore, access from the available parking areas to the "front" entrances is not direct.

### BUILDING ENCLOSURE & STRUCTURE

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**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**MECHANICAL SYSTEMS**

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**ELECTRICAL SYSTEMS**

The electrical service to the building is also close to capacity and will not support a significant addition to the facility. Throughout the building the distribution system is certainly not up to contemporary standards for support of computers and related multimedia systems. Specifically, distribution of higher voltages to the Arena area for special event production is non existent, requiring rental of generators when large concert type sound and light systems are desired. Also, support of concession systems requiring electrical connections for refrigeration and cooking are well below acceptable levels and in areas not designed for that use.

Except for the Main Arena, which has had its' lighting system upgraded and modernized, the building still has its original lighting system. The proposed alteration project should include upgrading of lighting systems which will provide better lighting and more efficient operations.

**APPENDIX G**

**PROPOSED SPACE REQUIREMENTS**

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Laboratory (4 Required)
2. *Room Number:* 171, 173, 175, and 177
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Instructional Space
5. *SSHE Use Code:* #200      *Classification:* Laboratory
6. *Net Assignable Area:* 800 Each
7. *Number and Type of Occupants:* 30 to 40 Students
8. *Functional Relationship to Other Rooms:* Grouped with other laboratories and near faculty offices.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Classroom type seating and flexible table arrangements. Presentation counter on rollers. Podium, TV/VCR capable of frame by frame viewing, marker boards, storage cabinets.
11. *Electric Lighting:* General, dimmable.
12. *Electric Power:* General plus AV equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* Acoustical separation from other rooms.



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Laboratory Storage (4 Required)
2. *Room Number:* 170, 172, 174, and 176
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Storage
5. *SSHE Use Code:* #200      *Classification:* Laboratory
6. *Net Assignable Area:* 200 sq. ft. each.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to laboratories.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General
12. *Electric Power:* General
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Coach Office (19 Required)
2. *Room Number:* 24, 38, 175A, 110, 119, 129, 229, 230, 231, 232, 233, 234, 235, 227, 228, 240, 246, 247, and 248
3. *Primary Department User:* Athletics Department
4. *Function:* Office
5. *SSHE Use Code:* #305      *Classification:* Faculty Office
6. *Net Assignable Area:* 150 sq. ft. each.
7. *Number and Type of Occupants:* 1 person
8. *Functional Relationship to Other Rooms:* Near special sports facility or other coaches and administrative support.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, and book shelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Assistant Coach (25 Required)
2. *Room Number:* 4, 39, 100, 101, 130, 131, 163, 164, 165, 169, 215, 217, 218, 219, 220, 222, 223, 236, 237, 238, 241, 244, 245, 249, 250.
3. *Primary Department User:* Athletics Department
4. *Function:* Office
5. *SSHE Use Code:* #305      *Classification:* Faculty Office
6. *Net Assignable Area:* 120 sq. ft. each.
7. *Number and Type of Occupants:* 1 person
8. *Functional Relationship to Other Rooms:* Near special sports facility or other coaches and administrative support.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, and book shelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Head Coach, Football
2. *Room Number:* 210
3. *Primary Department User:* Athletic Department
4. *Function:* Office
5. *SSHE Use Code:* #305      *Classification:* Faculty Office
6. *Net Assignable Area:* 248 sq. ft.
7. *Number and Type of Occupants:* 1 person
8. *Functional Relationship to Other Rooms:* Adjacent to Assistant Football Coaches, Conference Room, and Administrative Support Staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, small conference table, and bookshelf.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* H & PE Faculty Office (7 Required)
2. *Room Number:* 186, 187, 188, 189, 190, 191, and 192.
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Office
5. *SSHE Use Code:* #305      *Classification:* Faculty Office
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 1 person
8. *Functional Relationship to Other Rooms:* Near H & PE classrooms and laboratories, and near other faculty and administrative support.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, and bookshelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Closet
2. *Room Number:* 16
3. *Primary Department User:* Athletic Department
4. *Function:* Storage
5. *SSHE Use Code:* #310      *Classification:* Faculty Office Services
6. *Net Assignable Area:* 30 sq. ft.
7. *Number and Type of Occupants:* None
8. *Functional Relationship to Other Rooms:* Adjacent to Assistant Coach Office
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* None
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**SHIPPENSBURG UNIVERSITY**  
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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Faculty Office Services - Athletics
2. *Room Number:* 115
3. *Primary Department User:* Athletic Department
4. *Function:* Administrative Support
5. *SSHE Use Code:* #310      *Classification:* Faculty Office Services
6. *Net Assignable Area:* 220 sq. ft.
7. *Number and Type of Occupants:* None
8. *Functional Relationship to Other Rooms:* Near department offices and administrative staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Storage shelving, copiers, mail equipment, and fax machine.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Equipment power.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Faculty Office Services - Athletics
2. *Room Number:* 128
3. *Primary Department User:* Athletic Department
4. *Function:* Administrative Support
5. *SSHE Use Code:* #310      *Classification:* Faculty Office Services
6. *Net Assignable Area:* 80 sq. ft.
7. *Number and Type of Occupants:* None
8. *Functional Relationship to Other Rooms:* Near department offices and administrative staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Storage shelving, copiers, mail equipment, and fax machine.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Equipment power.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None



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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Faculty Office Services – H & PE
2. *Room Number:* 180
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Administrative Support
5. *SSHE Use Code:* #310      *Classification:* Faculty Office Services
6. *Net Assignable Area:* 242 sq. ft.
7. *Number and Type of Occupants:* None
8. *Functional Relationship to Other Rooms:* Near department offices and administrative staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Storage shelving, copiers, mail equipment, and fax machine.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Equipment power.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Director of Athletics
2. *Room Number:* 127
3. *Primary Department User:* Athletic Department
4. *Function:* Office
5. *SSHE Use Code:* #315      *Classification:* Administrative
6. *Net Assignable Area:* 200 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Near main building entrance.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, conference table, and bookshelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Associate Director of Athletics
2. *Room Number:* 123
3. *Primary Department User:* Athletic Department
4. *Function:* Office
5. *SSHE Use Code:* #315      *Classification:* Administrative
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Near main building entrance.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, conference table, and bookshelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Director of Sports Medicine
2. *Room Number:* 149
3. *Primary Department User:* Athletic Department
4. *Function:* Office
5. *SSHE Use Code:* #315      *Classification:* Administrative
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Within the sports medicine area.
9. *Visual Relationship to Other Rooms:* Able to visually observe sports medicine areas.
10. *Furniture and Equipment:* Office furniture, guest chairs, and bookshelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Health and Physical Education Department Chairperson
2. *Room Number:* 182
3. *Primary Department User:* Health and Physical Education
4. *Function:* Office
5. *SSHE Use Code:* #315      *Classification:* Administration
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to faculty offices and administrative support.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, guest chairs, and bookshelves.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Secretary Reception for Athletics
2. *Room Number:* 125
3. *Primary Department User:* Athletic Department
4. *Function:* Clerical
5. *SSHE Use Code:* #325      *Classification:* Clerical
6. *Net Assignable Area:* 315 sq. ft.
7. *Number and Type of Occupants:* 1 to 2 persons.
8. *Functional Relationship to Other Rooms:* Adjacent to faculty and support services space.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, reception counter, and waiting chairs.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Secretary Reception for H & PE
2. *Room Number:* 180
3. *Primary Department User:* Health and Physical Education
4. *Function:* Clerical
5. *SSHE Use Code:* #325      *Classification:* Clerical
6. *Net Assignable Area:* 270 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to H & PE chairperson and near faculty offices.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, reception counter, and waiting chairs.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Secretary Reception for Football
2. *Room Number:* 231
3. *Primary Department User:* Athletic Department
4. *Function:* Clerical
5. *SSHE Use Code:* #325      *Classification:* Clerical
6. *Net Assignable Area:* 288 sq. ft.
7. *Number and Type of Occupants:* 1 to 2 persons.
8. *Functional Relationship to Other Rooms:* Adjacent to football coaching and staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, reception counter, and waiting chairs.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Secretary Reception for Softball
2. *Room Number:* 224
3. *Primary Department User:* Athletic Department
4. *Function:* Clerical
5. *SSHE Use Code:* #325      *Classification:* Clerical
6. *Net Assignable Area:* 275 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to coaching staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, reception counter, and waiting chairs.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Secretary Reception for Baseball
2. *Room Number:* 242
3. *Primary Department User:* Athletic Department
4. *Function:* Clerical
5. *SSHE Use Code:* #325      *Classification:* Clerical
6. *Net Assignable Area:* 275 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to baseball coaching staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Office furniture, reception counter, and waiting chairs.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Athletics Conference Room
2. *Room Number:* 117
3. *Primary Department User:* Athletic Department
4. *Function:* Conference Room
5. *SSHE Use Code:* #365      *Classification:* Conference Room
6. *Net Assignable Area:* 255 sq. ft.
7. *Number and Type of Occupants:* 10 to 12 persons.
8. *Functional Relationship to Other Rooms:* Near athletic faculty and director.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Conference table and chairs, display panel, marker board, and projection screen.
11. *Electric Lighting:* Dimmable lighting.
12. *Electric Power:* Typical plus additional outlets for audiovisual equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Health and Physical Education Conference Room
2. *Room Number:* 183
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Conference Room
5. *SSHE Use Code:* #365      *Classification:* Conference Room
6. *Net Assignable Area:* 250 sq. ft.
7. *Number and Type of Occupants:* 10 to 12 persons.
8. *Functional Relationship to Other Rooms:* Near athletic faculty and director.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Conference table and chairs, display panel, marker board, and projection screen.
11. *Electric Lighting:* Dimmable lighting.
12. *Electric Power:* Typical plus additional outlets for audiovisual equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Football Conference Room
2. *Room Number:* 216
3. *Primary Department User:* Athletic Department
4. *Function:* Conference Room
5. *SSHE Use Code:* #365      *Classification:* Conference Room
6. *Net Assignable Area:* 149 sq. ft.
7. *Number and Type of Occupants:* 6 to 8 persons.
8. *Functional Relationship to Other Rooms:* Near coaching staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Conference table and chairs, display panel, marker board, and projection screen.
11. *Electric Lighting:* Dimmable lighting.
12. *Electric Power:* Typical plus additional outlets for audiovisual equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Softball Conference Room
2. *Room Number:* 225
3. *Primary Department User:* Athletic Department
4. *Function:* Conference Room
5. *SSHE Use Code:* #365      *Classification:* Conference Room
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 6 to 8 persons.
8. *Functional Relationship to Other Rooms:* Near coaching staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Conference table and chairs, display panel, marker board, and projection screen.
11. *Electric Lighting:* Dimmable lighting.
12. *Electric Power:* Typical plus additional outlets for audiovisual equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Basketball Conference Room
2. *Room Number:* 239
3. *Primary Department User:* Athletic Department
4. *Function:* Conference Room
5. *SSHE Use Code:* #365      *Classification:* Conference Room
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 6 to 8 persons.
8. *Functional Relationship to Other Rooms:* Near coaching staff.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Conference table and chairs, display panel, marker board, and projection screen.
11. *Electric Lighting:* Dimmable lighting.
12. *Electric Power:* Typical plus additional outlets for audiovisual equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Squash Courts (4)
2. *Room Number:* 10A, 10B, 10C, and 10D.
3. *Primary Department User:* Athletic Department
4. *Function:* Athletic space.
5. *SSHE Use Code:* #520A      *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 594 sq. ft. each.
7. *Number and Type of Occupants:* 2 persons.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* Existing
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Existing
16. *Plumbing:* None
17. *Special Finishes:* Existing
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Fitness Center
2. *Room Number:* 35
3. *Primary Department User:* Athletic Department
4. *Function:* Training
5. *SSHE Use Code:* #520A      *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 5,700 sq. ft.
7. *Number and Type of Occupants:* Variable.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Control desk/counter, training equipment.
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning with additional ventilation.
16. *Plumbing:* Water fountain.
17. *Special Finishes:* Cushioned floor, partially mirrored wall, acoustic absorptive wall and ceiling finishes.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Wrestling Room
2. *Room Number:* 37
3. *Primary Department User:* Athletic Department
4. *Function:* Athletic
5. *SSHE Use Code:* #520A     *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 3,570 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* Typical fluorescent.
12. *Electric Power:* Minimal.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* Cushioned flooring and wall padding.
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Swimming Pool - Existing
2. *Room Number:* 175
3. *Primary Department User:* Athletic Department
4. *Function:* Athletic and competition
5. *SSHE Use Code:* #520A *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 7,140 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Near locker rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* New bleachers with spectator access from 2<sup>nd</sup> floor.
11. *Electric Lighting:* General overhead HID lighting
12. *Electric Power:* Minimal.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* Timing and score keeping.
15. *HVAC:* Heating and dehumidification.
16. *Plumbing:* Pool systems.
17. *Special Finishes:* Tile.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Arena (Existing)
2. *Room Number:* 138
3. *Primary Department User:* Athletic Department
4. *Function:* Athletics, competition and concerts.
5. *SSHE Use Code:* #520A *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 33,832 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Multiple sports equipment.
11. *Electric Lighting:* General overhead HID lighting.
12. *Electric Power:* Requires new increased power capabilities for contemporary concert productions.
13. *Communication Systems:* Telephone, data, and public address systems.
14. *Special Systems:* Score keeping.
15. *HVAC:* Heating – addition of air conditioning desired.
16. *Plumbing:* Drinking fountains.
17. *Special Finishes:* Existing athletic flooring and acoustic wall treatments.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Large Gym
2. *Room Number:* 194
3. *Primary Department User:* Health and Physical Education
4. *Function:* Athletics, intramurals, and physical education.
5. *SSHE Use Code:* #520A *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 9,193 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Multiple sports equipment.
11. *Electric Lighting:* General overhead HID lighting.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone.
14. *Special Systems:* Score keeping, modular/moving walk to divide space.
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* Drinking fountains.
17. *Special Finishes:* Athletic flooring, wall padding, and acoustic wall treatment.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Small Gym
2. *Room Number:* 159
3. *Primary Department User:* Health and Physical Education
4. *Function:* Instructional.
5. *SSHE Use Code:* #520A      *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 1,400 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Near H & PE faculty offices.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Multiple sports equipment, mirrored wall with ballet rail.
11. *Electric Lighting:* General overhead HID lighting.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone, and music amplification.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* Athletic flooring, wall padding, and acoustic wall treatment.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Multi-Purpose Athletic Space
2. *Room Number:* 179
3. *Primary Department User:* Athletic Department
4. *Function:* Practice and training.
5. *SSHE Use Code:* #520A     *Classification:* Athletic or Physical Education
6. *Net Assignable Area:* 850 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Multiple sports equipment, including boxing ring.
11. *Electric Lighting:* General overhead HID lighting.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* Athletic flooring.
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* North Bleacher/Arena (Existing)
2. *Room Number:* 138N
3. *Primary Department User:* Athletic Department
4. *Function:* Spectator seating.
5. *SSHE Use Code:* #520AB/523 *Classification:* Athletic Facilities Spectator Seating
6. *Net Assignable Area:* 756 sq. ft.
7. *Number and Type of Occupants:*
8. *Functional Relationship to Other Rooms:*
9. *Visual Relationship to Other Rooms:*
10. *Furniture and Equipment:*
11. *Electric Lighting:*
12. *Electric Power:*
13. *Communication Systems:*
14. *Special Systems:*
15. *HVAC:*
16. *Plumbing:*
17. *Special Finishes:*
18. *Special Needs:*



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* South Bleacher/Arena (Existing)
2. *Room Number:* 138S
3. *Primary Department User:* Athletic Department
4. *Function:* Spectator seating.
5. *SSHE Use Code:* #520AB/523 *Classification:* Athletic Facilities Spectator Seating
6. *Net Assignable Area:* 756 sq. ft.
7. *Number and Type of Occupants:*
8. *Functional Relationship to Other Rooms:*
9. *Visual Relationship to Other Rooms:*
10. *Furniture and Equipment:*
11. *Electric Lighting:*
12. *Electric Power:*
13. *Communication Systems:*
14. *Special Systems:*
15. *HVAC:*
16. *Plumbing:*
17. *Special Finishes:*
18. *Special Needs:*

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Swimming Storage (Existing)
2. *Room Number:* 147
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C      *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 18 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to swimming pool.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Ventilation.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Trophy Case (Existing)
2. *Room Number:* 114
3. *Primary Department User:* Athletic Department
4. *Function:* Display.
5. *SSHE Use Code:* #520C *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 66 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to Lobby.
9. *Visual Relationship to Other Rooms:* Predominate aspect of Lobby.
10. *Furniture and Equipment:* Display shelving.
11. *Electric Lighting:* Display lighting.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* None
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Laundry
2. *Room Number:* 3
3. *Primary Department User:* Athletic Department
4. *Function:* Laundry.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 1,200 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Laundry equipment, and shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* Special power for equipment.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating and ventilation.
16. *Plumbing:* For washers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Equipment Issue Room, Men
2. *Room Number:* 26
3. *Primary Department User:* Athletic Department
4. *Function:* Storage and issue of sports equipment.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 400 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to locker rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Storage shelving and issue counter.
11. *Electric Lighting:* General.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Equipment Issue Room, Women
2. *Room Number:* 23
3. *Primary Department User:* Athletic Department
4. *Function:* Storage and issue of sports equipment.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 400 sq. ft.
7. *Number and Type of Occupants:* 1 person.
8. *Functional Relationship to Other Rooms:* Adjacent to locker rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Storage shelving and issue counter.
11. *Electric Lighting:* General.
12. *Electric Power:* Typical.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Men's General Locker Room
2. *Room Number:* 36 (partial)
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 1,200 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Grouped with team locker rooms, showers and equipment issue rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 50 full length lockers, 100 half-size lockers, and benches.
11. *Electric Lighting:* General fluorescent.
12. *Electric Power:* General.
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's General Locker Room
2. *Room Number:* 20 (partial)
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 1,200 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Grouped with team locker rooms, showers and equipment issue rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 50 full length lockers, 100 half-size lockers, and benches.
11. *Electric Lighting:* General fluorescent.
12. *Electric Power:* General.
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Men's Shared Shower Room
2. *Room Number:* 36 (partial)
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room shower facility.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 1,400 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Adjacent to general and team locker rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General fluorescent.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating, air conditioning, and ventilation.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Shared Shower Room
2. *Room Number:* 20 (partial)
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room shower facility.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 1,400 sq. ft.
7. *Number and Type of Occupants:* Varies.
8. *Functional Relationship to Other Rooms:* Adjacent to general and team locker rooms.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General fluorescent.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating, air conditioning, and ventilation.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Men's Team Locker Rooms (5 Required)
2. *Room Number:* 36
3. *Primary Department User:* Athletic Department
4. *Function:* Team locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 2,000 sq. ft.
7. *Number and Type of Occupants:* 4 rooms for 36 to 40 people. 1 room for 55 people.
8. *Functional Relationship to Other Rooms:* Adjacent to general locker room and shared showers.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 40 to 55 full length lockers for each room, benches, and bulletin board.
11. *Electric Lighting:* General.
12. *Electric Power:* General
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, air conditioning, and ventilation.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Team Locker Rooms (5 Required)
2. *Room Number:* 20 (partial)
3. *Primary Department User:* Athletic Department
4. *Function:* Team locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 2,000 sq. ft.
7. *Number and Type of Occupants:* 4 rooms for 36 to 40 people. 1 room for 55 people.
8. *Functional Relationship to Other Rooms:* Adjacent to general locker room and shared showers.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 40 to 55 full length lockers for each room, benches, and bulletin board.
11. *Electric Lighting:* General.
12. *Electric Power:* General
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, air conditioning, and ventilation.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

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APPENDIX G – PROPOSED SPACE REQUIREMENTS

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage (Wrestling)
2. *Room Number:* 40
3. *Primary Department User:* Athletic Department
4. *Function:* Equipment storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 100 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to wrestling room.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage
2. *Room Number:* 17
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 40 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Small Gym Storage
2. *Room Number:* 160
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to small gym.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage
2. *Room Number:* 167
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 325 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Near general athletic spaces.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* H & PE Storage
2. *Room Number:* 196
3. *Primary Department User:* Health and Physical Education Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 800 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to large gym.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage
2. *Room Number:* 226
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 93 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Near athletic staff offices
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage
2. *Room Number:* 243
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 45 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Near athletic staff offices
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Miscellaneous Athletic Storage
2. *Room Number:* 209
3. *Primary Department User:* Athletic Department
4. *Function:* Storage.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 31 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Near athletic staff offices
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Shelving.
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Men's Faculty Locker Room Showers
2. *Room Number:* 109
3. *Primary Department User:* Athletic Department
4. *Function:* Shower facilities.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 140 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to faculty locker room.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and ventilation.
16. *Plumbing:* Showers
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Faculty Locker Room Showers
2. *Room Number:* 105
3. *Primary Department User:* Athletic Department
4. *Function:* Shower facilities.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 140 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to faculty locker room.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and ventilation.
16. *Plumbing:* Showers
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Men's Faculty Locker Room
2. *Room Number:* 107
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 250 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 20 full length lockers and benches.
11. *Electric Lighting:* General.
12. *Electric Power:* Typical
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Faculty Locker Room
2. *Room Number:* 104
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 250 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* None
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 20 full length lockers and benches.
11. *Electric Lighting:* General.
12. *Electric Power:* Typical
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Men's Officials Locker Room Showers
2. *Room Number:* 112
3. *Primary Department User:* Athletic Department
4. *Function:* Shower.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 44 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to locker room.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and ventilating.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Officials Locker Room Showers
2. *Room Number:* 107
3. *Primary Department User:* Athletic Department
4. *Function:* Shower.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 40 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to locker room.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and ventilating.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Men's Officials Locker Room
2. *Room Number:* 113
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 171 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* Near arena.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 6-8 full length lockers and benches.
11. *Electric Lighting:* General.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

SHIPPENSBURG UNIVERSITY  
SU-711 HEIGES FIELD HOUSE ADDITION STUDY

APPENDIX G – PROPOSED SPACE REQUIREMENTS  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Women's Officials Locker Room
2. *Room Number:* 108
3. *Primary Department User:* Athletic Department
4. *Function:* Locker room.
5. *SSHE Use Code:* #520C/525 *Classification:* Athletic or Physical Education Service
6. *Net Assignable Area:* 200 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* Near arena.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* 6-8 full length lockers and benches.
11. *Electric Lighting:* General.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* Showers.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Sports Medicine Training Room
2. *Room Number:* 150
3. *Primary Department User:* Athletic Department
4. *Function:* Rehabilitation and training.
5. *SSHE Use Code:* #540      *Classification:* Clinic
6. *Net Assignable Area:* 1,000 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* Adjacent to rehabilitation room and director of sports medicine.
9. *Visual Relationship to Other Rooms:* Visual line to Director's office and rehabilitation room.
10. *Furniture and Equipment:* Various exercise equipment.
11. *Electric Lighting:* General overhead.
12. *Electric Power:* General plus special connections for equipment.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Sports Medicine Rehabilitation Room
2. *Room Number:* 148
3. *Primary Department User:* Athletic Department
4. *Function:* Rehabilitation.
5. *SSHE Use Code:* #540      *Classification:* Clinic
6. *Net Assignable Area:* 1,500 sq. ft.
7. *Number and Type of Occupants:* Varies
8. *Functional Relationship to Other Rooms:* Adjacent to sports medicine training room and Director's office.
9. *Visual Relationship to Other Rooms:* Visual connection to training room and Director's office.
10. *Furniture and Equipment:* Multiple and various size whirlpool baths, massage, tables, equipment storage cabinets, and linen storage.
11. *Electric Lighting:* General.
12. *Electric Power:* General and special equipment.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating, and air conditioning.
16. *Plumbing:* Connection of whirlpool equipment, toilet facilities, and floor drains.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Corporate Hospitality Suite
2. *Room Number:* 158
3. *Primary Department User:* Athletic Department
4. *Function:* Meeting room.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 1,450 sq. ft.
7. *Number and Type of Occupants:* 30 to 50 people.
8. *Functional Relationship to Other Rooms:* Near arena with easy access to stadium.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Reception counter, general lounge type seating, display cases, conference table and chairs, TV/VCR, and refreshment service counter.
11. *Electric Lighting:* General.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* Service sink.
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Dressing Room
2. *Room Number:* 710
3. *Primary Department User:* Conference Services
4. *Function:* Pre- and post-performance preparation space for presenters or performers.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 710 sq. ft.
7. *Number and Type of Occupants:* 6 to 12 people.
8. *Functional Relationship to Other Rooms:* Adjacent to arena with access from outside without going through arena.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Lounge type seating, make-up area, and subdivision for privacy changing.
11. *Electric Lighting:* General and make-up counter lighting.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* Refreshment service sink.
17. *Special Finishes:* None
18. *Special Needs:* None



**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Arena Equipment Storage
2. *Room Number:* 142A
3. *Primary Department User:* Conference Services
4. *Function:* Storage of seating and equipment.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 730 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to arena.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* None
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Arena Electronic Equipment Storage
2. *Room Number:* 145
3. *Primary Department User:* Conference Services
4. *Function:* Special storage of electronic equipment.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 480 sq. ft.
7. *Number and Type of Occupants:* N/A
8. *Functional Relationship to Other Rooms:* Adjacent to arena.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* None
11. *Electric Lighting:* General.
12. *Electric Power:* General plus special for equipment.
13. *Communication Systems:* None
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**  
*Scheme 3*

**Room Data Sheet**

1. *Room Name:* Arena Box Office and Concession
2. *Room Number:* 122
3. *Primary Department User:* Conference Services
4. *Function:* Ticket and souvenir sales.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 150 sq. ft.
7. *Number and Type of Occupants:* 2 people.
8. *Functional Relationship to Other Rooms:* Adjacent to main lobby and near arena entrance.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Cash register, sales counter, merchandise display, and shelving.
11. *Electric Lighting:* General and display lighting.
12. *Electric Power:* General.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating and air conditioning.
16. *Plumbing:* None
17. *Special Finishes:* None
18. *Special Needs:* None

**APPENDIX G – PROPOSED SPACE REQUIREMENTS**

***Scheme 3***

**Room Data Sheet**

1. *Room Name:* Arena Food Concession
2. *Room Number:* 136A
3. *Primary Department User:* Conference Services
4. *Function:* Food service.
5. *SSHE Use Code:* #600      *Classification:* General Use Facilities
6. *Net Assignable Area:* 272 sq. ft.
7. *Number and Type of Occupants:* 4 to 5 people.
8. *Functional Relationship to Other Rooms:* Adjacent to arena with service access to the exterior.
9. *Visual Relationship to Other Rooms:* None
10. *Furniture and Equipment:* Food service equipment and storage facilities, sales counter, and cash register.
11. *Electric Lighting:* General.
12. *Electric Power:* Connection of food service equipment.
13. *Communication Systems:* Telephone and data.
14. *Special Systems:* None
15. *HVAC:* Heating, ventilating and air conditioning.
16. *Plumbing:* Food service equipment connections and service sinks.
17. *Special Finishes:* Easily cleaned and sanitized.
18. *Special Needs:* None

**APPENDIX H**

**PROPOSED ROOM LIST – SCHEME 3**

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
ROOM LIST

DATE: 8/7/00  
Printed on 8/9/00

| Floor               | Area in Existing Bldg. | Area in Addition | Room No. | SSHE Use Code | Classification | Dept.          | Proposed Program Description          |
|---------------------|------------------------|------------------|----------|---------------|----------------|----------------|---------------------------------------|
| <b>Ground Floor</b> |                        |                  |          |               |                |                |                                       |
| G                   | 420                    |                  | GH1      | 71            | Corr           |                | Lengthened N/S coridor (6'-8" wide)   |
| G                   | 451                    |                  | GH2      | 71            | Corr           |                | Corridor @ Gallery                    |
| G                   | 489                    |                  | GH3      | 71            | Corr           |                | Shortened Coridor                     |
| G                   |                        | 1,135            | GH8      | 71            | Corr           |                | N/S Corridor 6'x159'+180 sf           |
| G                   |                        | 510              | GH7      | 71            | Corr           |                | New Elev. Lobby at Ground Floor       |
| G                   |                        | 198              | GH4      | 71            | Corr           |                | Exit @ Electrical Rm.                 |
| G                   |                        | 275              | 18       | 71            | Corr           |                | Electrical Rm. Access                 |
| G                   |                        | 100              | GH8      | 71            | Corr           |                | Ramp @ Women's Locker                 |
| G                   | 167                    |                  | 2        | 72            | Stair          |                | SE Stair                              |
| G                   | 167                    |                  | 8        | 72            | Stair          |                | S Stair                               |
| G                   | 167                    |                  | 19       | 72            | Stair          |                | SW Stair                              |
| G                   | 34                     |                  | 21       | 72            | Stair          |                | Squash Stair                          |
| G                   | 34                     |                  | 22       | 72            | Stair          |                | Squash Stair                          |
| G                   | 45                     |                  | 25       | 72            | Stair          |                | To GH4                                |
| G                   | 0                      |                  | 26       | 72            | Stair          |                | Eliminated                            |
| G                   | 72                     |                  | 27       | 72            | Stair          |                | To 7                                  |
| G                   |                        | 207              | 41       | 72            | Stair          |                | North Stair Ground Floor              |
| G                   |                        | 300              | 30       | 72            | Stair          |                | Central Stair, Ground Floor           |
| G                   | 22                     |                  | 12       | 73            | Elevator       |                | Elevator                              |
| G                   |                        | 70               | 28       | 73            | Elevator       |                | New Elevator Ground Floor             |
| G                   |                        | 80               | 42       | 74            | Vestibule      |                | New Vestibule at Ground Floor         |
| G                   | 97                     |                  | 5        | 81            | Toilet M       |                | Men's Access Toilet Rm. At Fitness    |
| G                   |                        | 700              | 38       | 81            | Toilet M       |                | General Men's Toilet - Locker Rooms   |
| G                   |                        | 275              | 38       | 81            | Toilet M       |                | Men's Toilet Room @ Ground Fl.        |
| G                   |                        | 700              | 20       | 82            | Toilet F       |                | General Women's Toilet-Locker Room    |
| G                   | 80                     |                  | 13       | 82            | Toilet F       |                | Women's Access T. Rm. At Fitness      |
| G                   |                        | 275              | 20       | 82            | Toilet F       |                | Women's Toilet Rm @ Ground Floor      |
| G                   | 107                    |                  | 14       | 85            | Maint sto      |                | MR2 Sto                               |
| G                   |                        | 150              | 33       | 85            | Maint Sto      |                | New Maintenance Storage               |
| G                   | 725                    |                  | 18       | 91            | Mach           |                | Elect                                 |
| G                   |                        | 300              | 32       | 91            | Mach           |                | Electrical Rm in addition, Grd. Fl.   |
| G                   |                        | 120              | 34       | 91            | Mach           |                | Tele/Com Rm. Gnd. Fl.                 |
| G                   | 1,567                  |                  | 1        | 92            | Mach           |                | Mech                                  |
| G                   | 192                    |                  | 7        | 92            | Mach           |                | Mech                                  |
| G                   | 413                    |                  | 9A       | 92            | Mach           |                | Behind Pool                           |
| G                   | 18                     |                  | 15       | 92            | Mach           |                | Elec. Space in Women's Locker Rm.     |
| G                   | 133                    |                  | 17       | 92            | Mach           |                | Mech. Space in Women's Locker Rm.     |
| G                   |                        | 1,675            | 31       | 92            | Mach           |                | Mechanical Rm in addition, Grd. Fl.   |
| G                   | 119                    |                  | 11       | 93            | Elevator       |                | Elevator machine room                 |
| G                   |                        | 48               | 29       | 93            | Elevator       |                | New Elevator Mach. Rm.                |
| G                   | 150                    |                  | 24       | 305           | Fac Off        | Athletic Dept. | (1) Coach Office Gnd. Fl. @ Lockers   |
| G                   | 120                    |                  | 4        | 305           | Fac Off        | Athletic Dept. | (1) Assist. Coaches Offices Gnd Fl    |
| G                   |                        | 150              | 38       | 305           | Fac Off        | Athletic Dept. | Wrestling Coach adj. to Wrestling Rm  |
| G                   |                        | 120              | 39       | 305           | Fac Off        | Athletic Dept. | Assist. Wrestling Coach @ Wrestling R |
| G                   | 30                     |                  | 18       | 310           | Fac Off Svc    | Athletic Dept. | Closet in Assist. Coach's Office      |
| G                   | 594                    |                  | 10A      | 520A          | Ath-PE-Int     | Athletic Dept. | Squash                                |
| G                   | 594                    |                  | 10B      | 520A          | Ath-PE-Int     | Athletic Dept. | Squash                                |
| G                   | 594                    |                  | 10C      | 520A          | Ath-PE-Int     | Athletic Dept. | Squash                                |
| G                   | 594                    |                  | 10D      | 520A          | Ath-PE-Int     | Athletic Dept. | Squash                                |
| G                   |                        | 5,700            | 35       | 520A          | Ath-PE-Int     | Athletic Dept. | Fitness Center                        |
| G                   |                        | 3,570            | 37       | 520A          | Ath-PE-Int     | Athletic Dept. | Wrestling                             |
| G                   | 1,200                  |                  | 3        | 520C          | Ath Svc-Int    | Athletic Dept. | Laundry - enlarged                    |
| G                   |                        | 400              | 28       | 520C          | Ath Svc-Int    | Athletic Dept. | Equipment Issue Rms, Men              |
| G                   |                        | 1,200            | 36       | 520C          | Ath Svc-Int    | Athletic Dept. | Men's General Locker Room             |
| G                   |                        | 1,400            | 36       | 520C          | Ath Svc-Int    | Athletic Dept. | Men's Shared Shower Room              |
| G                   |                        | 2,000            | 36       | 520C          | Ath Svc-Int    | Athletic Dept. | Men's Team Locker Rooms (5)           |
| G                   | 210                    |                  | 23       | 520C          | Ath Svc-Int    | Athletic Dept. | Equipment Issue Rms, Women            |
| G                   | 1,100                  |                  | 100      | 520C          | Ath Svc-Int    | Athletic Dept. | Women's General Locker Room           |
| G                   |                        | 1,400            | 20       | 520C          | Ath Svc-Int    | Athletic Dept. | Women's Shared Shower Room            |
| G                   |                        | 2,000            | 20       | 520C          | Ath Svc-Int    | Athletic Dept. | Women's Team Locker Rooms (5)         |
| G                   |                        | 110              | 40       | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. @ Wrestling Rm.        |
| G                   | 40                     |                  | 17       | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. @ New Elev., Gnd. Fl.  |
| <b>First Floor</b>  |                        |                  |          |               |                |                |                                       |
| 1                   | 278                    |                  | 120      | 71            | Corr           |                | Corridor                              |
| 1                   | 576                    |                  | 123      | 71            | Corr           |                | Lengthened N/S corridor               |
| 1                   | 2,270                  |                  | 128      | 71            | Corr           |                | Lobby                                 |
| 1                   | 244                    |                  | 139A     | 71            | Corr           |                | Corridor                              |
| 1                   | 637                    |                  | 146      | 71            | Corr           |                | Portico                               |
| 1                   | 894                    |                  | 1H1      | 71            | Corr           |                | Lengthened E/W corridor               |
| 1                   |                        | 1,140            | 1H3      | 71            | Corr           |                | N/S Coridor                           |
| 1                   |                        | 826              | 1H4      | 71            | Corr           |                | E/W corridor                          |
| 1                   |                        | 285              | 1H2      | 71            | Corr           |                | New Elev. Lobby at First Floor        |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3

DATE: 8/7/00

Printed on 8/9/00

ROOM LIST

| Floor | Area in Existing Bldg. | Area in Addition | Room No. | SSHE Use Code | Classification | Dept.          | Proposed Program Description                                |
|-------|------------------------|------------------|----------|---------------|----------------|----------------|---|
| 1     |                        | 1,000            | 1H5      | 71            | Corr           |                | N/S Corridor at H&pe  |
| 1     |                        | 400              | 1H6      | 71            | Corr           |                | EW Corridor at Small Gym                                    |
| 1     |                        | 671              | 1H7      | 71            | Corr           |                | N/S Corridor At West Side                                   |
| 1     |                        | 605              | 1H8      | 71            | Corr           |                | H&PE Office Passage   |
| 1     | 122                    |                  | 129      | 72            | Stair          |                | SE Stair  |
| 1     | 167                    |                  | 130      | 72            | Stair          |                | S Stair   |
| 1     | 167                    |                  | 131      | 72            | Stair          |                | SW Stair  |
| 1     |                        | 84               | 146      | 72            | Stair          |                | Stair Exit From Electric Room                               |
| 1     |                        | 207              | 193      | 72            | Stair          |                | South Stair First Floor                                     |
| 1     |                        | 300              | 152      | 72            | Stair          |                | Central Stair, First Floor                                  |
| 1     | 22                     |                  | 123A     | 73            | Elevator       |                | Elevator  |
| 1     |                        | 70               | 151      | 73            | Elevator       |                | New Elevator First Floor                                    |
| 1     | 174                    |                  | 132      | 74            | Vestibule      |                | NW Vestibule  |
| 1     | 174                    |                  | 134      | 74            | Vestibule      |                | NE Vestibule  |
| 1     | 174                    |                  | 137      | 74            | Vestibule      |                | SE Vestibule  |
| 1     | 174                    |                  | 143      | 74            | Vestibule      |                | SW Vestibule  |
| 1     |                        | 330              | 154      | 74            | Vestibule      |                | West Vestibule @ Hospitality Suite                          |
| 1     | 160                    |                  | 108      | 81            | Toilet M       |                | Men's Faculty Locker rm Toilet                              |
| 1     | 690                    |                  | 116      | 81            | Toilet M       |                | Men's Arena Restrooms                                       |
| 1     |                        | 210              | 185      | 81            | Toilet M       |                | Men's Toilet Rm, 1st. @ Large Gym                           |
| 1     |                        | 200              | 158      | 81            | Toilet M       |                | Men's Toilet Rm, 1st. @ Sports Med.                         |
| 1     | 50                     |                  | 111      | 81            | Toilet M       |                | Men's Official Locker rm Toilet                             |
| 1     | 45                     |                  | 139C     | 81            | Toilet M       |                | Men's Toilet Rm, @ Arena Dress Rm.                          |
| 1     | 820                    |                  | 121      | 82            | Toilet F       |                | Women's Arena Restrm  |
| 1     |                        | 210              | 184      | 82            | Toilet F       |                | Women's Toilet Rm, 1st. @ Large Gym                         |
| 1     |                        | 200              | 155      | 82            | Toilet F       |                | Women's Toilet Rm, 1st. @ Sports Med.                       |
| 1     | 50                     |                  | 109      | 82            | Toilet F       |                | Women's Official Locker rm Toilet                           |
| 1     | 160                    |                  | 108      | 82            | Toilet F       |                | Women's Faculty Locker rm Toilet                            |
| 1     | 45                     |                  | 139D     | 82            | Toilet F       |                | Women's T. Rm. @ Arena Dress Rm.                            |
| 1     | 28                     |                  | 118      | 84            | Cust           |                | Custodial Closet  |
| 1     |                        | 63               | 162      | 84            | Cust           |                | New Custodial Closet @ 1st Fl                               |
| 1     |                        | 21               | 198      | 84            | Cust           |                | New Custodial Closet @ New Toilet Rms                       |
| 1     |                        | 21               | 157      | 84            | Cust           |                | New Custodial Closet @ New Toilet Rms                       |
| 1     | 60                     |                  | 148      | 84            | Cust           |                | Custodial Storage   |
| 1     | 1,738                  |                  | 142      | 85            | Maint sto      |                | Seating Storage   |
| 1     | 18                     |                  | 102      | 85            | Maint Sto      |                | Sto Pool Vac  |
| 1     |                        | 325              | 168      | 85            | Maint Sto      |                | Misc. Building Storage                                      |
| 1     |                        | 120              | 166      | 91            | Mach           |                | Tele/Com Rm. First Fl.                                      |
| 1     | 169                    |                  | 133A     | 92            | Mach           |                | North Sto   |
| 1     | 512                    |                  | 133B     | 92            | Mach           |                | North Sto   |
| 1     | 522                    |                  | 133C     | 92            | Mach           |                | North Sto   |
| 1     | 183                    |                  | 133D     | 92            | Mach           |                | North Sto   |
| 1     | 426                    |                  | 136B     | 92            | Mach           |                | S Sto   |
| 1     | 715                    |                  | 136C     | 92            | Mach           |                | S Sto   |
| 1     | 394                    |                  | 139      | 92            | Mach           |                | W Mech Rm   |
| 1     |                        | 600              | 196      | 92            | Mach           |                | Mechanical Rm for Large Gym                                 |
| 1     |                        | 880              | 153      | 92            | Mach           |                | Mech. Rm. 1st Fl. Adj. Pool                                 |
| 1     |                        | 75               | 199      | 92            | Mach           |                | Mech Chase at Small Gym                                     |
| 1     |                        | 800              | 171      | 200           | Laboratory     | H&PE Dept.     | H&PE Lab  |
| 1     |                        | 800              | 173      | 200           | Laboratory     | H&PE Dept.     | H&PE Lab  |
| 1     |                        | 800              | 175      | 200           | Laboratory     | H&PE Dept.     | H&PE Lab  |
| 1     |                        | 800              | 177      | 200           | Laboratory     | H&PE Dept.     | H&PE Lab  |
| 1     |                        | 200              | 170      | 200           | Laboratory     | H&PE Dept.     | Lab Storage H&PE  |
| 1     |                        | 200              | 172      | 200           | Laboratory     | H&PE Dept.     | Lab Storage H&PE  |
| 1     |                        | 200              | 174      | 200           | Laboratory     | H&PE Dept.     | Lab Storage H&PE  |
| 1     |                        | 200              | 176      | 200           | Laboratory     | H&PE Dept.     | Lab Storage H&PE  |
| 1     | 153                    |                  | 175A     | 305           | Fac Off        | Athletic Dept. | Swim Coach  |
| 1     | 450                    |                  | 110      | 305           | Fac Off        | Athletic Dept. | (3) Coaches Offices 1st Fl (Plus Rms. 119 & 129)            |
| 1     | 480                    |                  | 100      | 305           | Fac Off        | Athletic Dept. | (4) Assist. Coaches Off. 1st Fl (Plus Rms. 101, 130, & 131) |
| 1     |                        | 480              | 169      | 305           | Fac Off        | Athletic Dept. | (4) Assist. Coach 1st Fl. (Plus Rms. 163, 164, & 165)       |
| 1     |                        | 1,050            | 186      | 305           | Fac Off        | H&PE Dept.     | (7) H&PE Faculty 1st Fl. New (Plus Rms. 186 Thru 192)       |
| 1     | 80                     |                  | 128      | 310           | Fac Off Svc    | Athletic Dept. | Fac/Off Svc Athletics-1st Fl @ Recep.                       |
| 1     | 220                    |                  | 115      | 310           | Fac Off Svc    | Athletic Dept. | Fac/Off Svc Athletics-1st Fl @ Elev.                        |
| 1     |                        | 242              | 180      | 310           | Fac Off Svc    | H&PE Dept.     | Fac/Off Svc H&PE - New                                      |
| 1     | 200                    |                  | 127      | 315           | Admin          | Athletic Dept. | Dir Ath   |
| 1     | 150                    |                  | 123      | 315           | Admin          | Athletic Dept. | Assoc Dir   |
| 1     |                        | 150              | 149      | 315           | Admin          | Athletic Dept. | Dir Spt Med   |
| 1     |                        | 150              | 182      | 315           | Admin          | H&PE Dept.     | H&PE Chair  |
| 1     | 315                    |                  | 125      | 325           | Clerical       | Athletic Dept. | Sec/Reception Ath   |
| 1     |                        | 270              | 180      | 325           | Clerical       | H&PE Dept.     | Sec/Reception H&PE in New Area                              |
| 1     | 255                    |                  | 117      | 365           | Conf Rm        | Athletic Dept. | Conf Rm Ath   |
| 1     |                        | 250              | 183      | 365           | Conf Rm        | H&PE Dept.     | Conf Rm H&PE, New   |
| 1     | 7,140                  |                  | 175      | 520A          | Ath-PE-Int     | Athletic Dept. | Swim Pool   |
| 1     | 33,832                 |                  | 138      | 520A          | Ath-PE-Int     | Athletic Dept. | Arena   |
| 1     |                        | 9,193            | 194      | 520A          | Ath-PE-Int     | H&PE Dept.     | Large Gym   |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3

DATE: 8/7/00  
Printed on 8/9/00

ROOM LIST

| Floor               | Area in Existing Bldg | Area in Addition | Room No. | SSHE Use Code | Classification | Dept.          | Proposed Program Description           |
|---------------------|-----------------------|------------------|----------|---------------|----------------|----------------|--|
| 1                   |                       | 1,400            | 159      | 520A          | Ath-PE-Int     | H&PE Dept.     | Small Gym                              |
| 1                   |                       | 850              | 179      | 520A          | Ath-PE-Int     | Athletic Dept. | Multi-Purpose Athletic Space           |
| 1                   |                       |                  | 138N     | 520B          | Ath Seat-Int   | Athletic Dept. | North Bleachers                        |
| 1                   | 756                   |                  | 138S     | 520B          | Ath Seat-Int   | Athletic Dept. | South Bleachers                        |
| 1                   | 18                    |                  | 147      | 520C          | Ath Svc-Int    | Athletic Dept. | Swim Sto                               |
| 1                   | 66                    |                  | 114      | 520C          | Ath Svc-Int    | Athletic Dept. | Trophy case                            |
| 1                   | 140                   |                  | 109      | 520C          | Ath Svc-Int    | Athletic Dept. | Men's Faculty Locker Rm Showers        |
| 1                   | 250                   |                  | 107      | 520C          | Ath Svc-Int    | Athletic Dept. | Men's Faculty Locker Room              |
| 1                   | 44                    |                  | 112      | 520C          | Ath Svc-Int    | Athletic Dept. | Men's Officials Locker Rm Showers      |
| 1                   | 171                   |                  | 113      | 520C          | Ath Svc-Int    | Athletic Dept. | Mens' Officials Locker Room            |
| 1                   | 140                   |                  | 105      | 520C          | Ath Svc-Int    | Athletic Dept. | Women's Faculty Locker Rm Showers      |
| 1                   | 250                   |                  | 104      | 520C          | Ath Svc-Int    | Athletic Dept. | Women's Faculty Locker Room            |
| 1                   | 40                    |                  | 107      | 520C          | Ath Svc-Int    | Athletic Dept. | Women's Officials Locker Rm Showers    |
| 1                   | 200                   |                  | 108      | 520C          | Ath Svc-Int    | Athletic Dept. | Womens' Officials Locker Room          |
| 1                   |                       | 150              | 160      | 520C          | Ath Svc-Int    | H&PE Dept.     | Small Gym Storage                      |
| 1                   |                       | 325              | 167      | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. @ Ath. 1st. Fl.         |
| 1                   |                       | 800              | 196      | 520C          | Ath Svc-Int    | H&PE Dept.     | H&PE sto at New Gym                    |
| 1                   |                       | 1,000            | 150      | 540           | Clinic         | Athletic Dept. | Sp Med Tng Rm                          |
| 1                   |                       | 1,500            | 148      | 540           | Clinic         | Athletic Dept. | Sp Med Rehab Rm                        |
| 1                   |                       | 1,450            | 158      | 600           | Assembly       | Athletic Dept. | Corporate Hospitality Suite            |
| 1                   | 710                   |                  | 139B     | 600           | Assembly       |                | Dressing Rooms                         |
| 1                   | 730                   |                  | 142A     | 600           | Assembly       |                | Additional Arena Equip. Stor. (West)   |
| 1                   |                       | 480              | 145      | 600           | Assembly       |                | Arena Electronic Equip. Storage        |
| 1                   | 150                   |                  | 122      | 600           | Assembly       |                | Arena Box Office and Concession        |
| 1                   | 272                   |                  | 138A     | 600           | Assembly       |                | Food Concession at Arena               |
| <b>Second Floor</b> |                       |                  |          |               |                |                |  |
| 2                   | 1,140                 |                  | 2H1      | 71            | Corr           |                | 2nd Floor Corridor                     |
| 2                   | 72                    |                  | 2H4      | 71            | Corr           |                | Entry to Pool Bleachers                |
| 2                   | 287                   |                  | 2H5      | 71            | Corr           |                | 2nd Fl. Fac. Passage at FB             |
| 2                   | 693                   |                  | 2H2      | 71            | Corr           |                | Office Passage at Coaches (N)          |
| 2                   | 490                   |                  | 2H3      | 71            | Corr           |                | Office Passage at Coaches (S)          |
| 2                   | 167                   |                  | 203      | 72            | Stair          |                | S Stair                                |
| 2                   | 167                   |                  | 204      | 72            | Stair          |                | SW Stair                               |
| 2                   | 22                    |                  | 207      | 73            | Elevator       |                | Elevator                               |
| 2                   | 225                   |                  | 251      | 81            | Toilet M       |                | Men's Toilet Rm. @ 2nd Fl.             |
| 2                   | 315                   |                  | 212      | 82            | Toilet F       |                | Women's Toilet Rm @ 2nd Floor          |
| 2                   | 46                    |                  | 213      | 84            | Cust           |                | Existing Custodial Closet 2nd Fl       |
| 2                   | 90                    |                  | 221      | 91            | Mach           |                | Electric Closet @ 2nd Fl.              |
| 2                   | 96                    |                  | 205      | 91            | Mach           |                | Tele/Com Rm. 2nd Fl.                   |
| 2                   | 153                   |                  | 202      | 92            | Mach           |                | Above 175A @ Pool                      |
| 2                   | 60                    |                  | 211      | 92            | Mach           |                | Mech. Access to Roof from Corr.        |
| 2                   | 1,061                 |                  | 214      | 92            | Mach           |                | Mech                                   |
| 2                   | 248                   |                  | 210      | 305           | Fac Off        | Athletic Dept. | Coach, Head Football                   |
| 2                   | 515                   |                  | multi    | 305           | Fac Off        | Athletic Dept. | (5) Assist. Coaches FB                 |
| 2                   | 1,950                 |                  | multi    | 305           | Fac Off        | Athletic Dept. | (13) Coaches Offices 2nd Fl. Exist'g   |
| 2                   | 1,200                 |                  | multi    | 305           | Fac Off        | Athletic Dept. | (10) Assist. Coaches 2nd Fl. Exist'g   |
| 2                   | 288                   |                  | 231      | 325           | Clerical       | Athletic Dept. | Ft ball Secy                           |
| 2                   | 275                   |                  | 224      | 325           | Clerical       | Athletic Dept. | Sec/Reception SB                       |
| 2                   | 275                   |                  | 242      | 325           | Clerical       | Athletic Dept. | Sec/Reception BB                       |
| 2                   | 149                   |                  | 216      | 365           | Conf Rm        | Athletic Dept. | Conf Rm FB                             |
| 2                   | 150                   |                  | 225      | 365           | Conf Rm        | Athletic Dept. | Conf Rm SB                             |
| 2                   | 150                   |                  | 239      | 365           | Conf Rm        | Athletic Dept. | Conf Rm BB                             |
| 2                   | 93                    |                  | 228      | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. @ Ath. Off. 2nd Fl. (N) |
| 2                   | 45                    |                  | 243      | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. @ Ath. Off. 2nd Fl. (S) |
| 2                   | 31                    |                  | 209      | 520C          | Ath Svc-Int    | Athletic Dept. | Storage, Misc. Ath. @ Pool Entry       |



**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX I**

**PRELIMINARY BUDGET COST ESTIMATES**

- I.1 Scheme 1**
- I.2 Scheme 2**
- I.3 Scheme 3**
- I.4 Facility Office Building**

**Shippensburg University**  
**SU-711 Heiges Field House Alterations and Addition**

8/7/00  
 Printed 8/7/00

**Scheme 1**

*Capital Project Cost Estimate & Category Justification Report*

University Priority # \_\_\_\_\_

**PART VI: Cost Estimating Data**

|   |   |                 |           | <b>Total Cost</b>             |
|---|---|-----------------|-----------|-------------------------------|
| <b>A.</b>   | <b>Site Prep/Special:</b>   |                 |           |                               |
|   | 1. Geotechnical Subsurface Investigation  |                 |           | \$30,000                      |
|   | 2. Geotechnical Foundation Design   |                 |           | \$20,000                      |
|   | 3. Subsurface Preparation (Mat Slab)  | 35,000 sqft at  | \$22.00   | \$770,000                     |
|   |   |                 |           | <b>Subtotal: \$820,000</b>    |
| <b>B.</b>   | <b>Cost (see attached)</b>  |                 |           |                               |
|   | 1. Addition   |                 |           | \$6,301,062                   |
|   | 2. Renovation   |                 |           | \$5,804,083                   |
|   |   |                 |           | <b>Subtotal: \$12,105,145</b> |
| <b>C.</b>   | <b>Special Equipment</b> (built-in equipment, Elevators, ADA, vacuum systems)                                       |                 |           |                               |
|   | 1. Div. 11, 12, 13, 14 Alterations  |                 |           | \$429,101                     |
|   | 2. Div. 11, 12, 13, 14 New Construction   |                 |           | \$302,125                     |
|   |   |                 |           | <b>Subtotal: \$731,226</b>    |
| <b>D.</b>   | <b>Supporting Utilities</b> (list with estimated installation of utility lines beyond 5' line)                      |                 |           |                               |
|   | 1. New Electrical Service for Building  | 1,000 lin.ft at | \$50      | \$50,000                      |
|   | Main Connection and Transformer   | 1 allowance     | \$103,000 | \$103,000                     |
|   | 2. New Sanitary Service   | 350 lin.ft at   | \$60      | \$21,000                      |
|   | 3. New Water/Fire Service   | 350 lin.ft at   | \$72      | \$25,200                      |
|   |   |                 |           | <b>Subtotal: \$199,200</b>    |
| <b>E.</b>   | <b>Site Improvements</b> (list with estimates major improvements, e.g. parking, service roads, special landscaping) |                 |           |                               |
|   | 1. Sidewalks  | 4,000 sqft. @   | \$10      | \$40,000                      |
|   | 2. Driveways and Parking  | 60 cars @       | \$1,500   | \$90,000                      |
|   | 3. Landscaping  | 1 allowance     | \$50,000  | \$50,000                      |
|   |   |                 |           | <b>Subtotal: \$180,000</b>    |
| <b>BASE Construction/Renovation Cost</b>                                    |   |                 |           | <b>\$14,035,571</b>           |
| Estimated Design & Construction Contingency (use 20% of base amount)        |   |                 |           | \$2,807,114                   |
| <b>BASE Construction/Renovation + Design &amp; Construction Contingency</b> |   |                 |           | <b>\$16,842,685</b>           |
| Estimated Land Acquisition  |   |                 |           | \$0                           |
| <b>TOTAL PROJECT COST ESTIMATE:</b>   |   |                 |           | <b>\$16,842,685</b>           |

Figure IV-4

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 1  
Capital Project Cost Estimate

August 7, 2000  
Printed on 8/7/00

| Summary                               | SSHE             |                    | Typical Bldg.<br>TOTAL | \$PER GROS SQFT | % of Total     |
|---------------------------------------|------------------|--------------------|------------------------|-----------------|----------------|
|                                       | Special Equip.   | Construction       |                        |                 |                |
| General Construction - Alterations    |                  |                    |                        |                 |                |
| Subtotal Div. 1                       |                  | \$344,087          | \$344,087              | \$3.76          |                |
| Subtotal Div. 2                       |                  | \$415,392          | \$415,392              | \$4.53          |                |
| Subtotal Div. 3                       |                  | \$30,127           | \$30,127               | \$0.33          |                |
| Subtotal Div. 4                       |                  | \$171,633          | \$171,633              | \$1.87          |                |
| Subtotal Div. 5                       |                  | \$41,428           | \$41,428               | \$0.45          |                |
| Subtotal Div. 6                       |                  | \$20,583           | \$20,583               | \$0.22          |                |
| Subtotal Div. 7                       |                  | \$332,221          | \$332,221              | \$3.63          |                |
| Subtotal Div. 8                       |                  | \$271,789          | \$271,789              | \$2.97          |                |
| Subtotal Div. 9                       |                  | \$713,669          | \$713,669              | \$7.79          |                |
| Subtotal Div. 10                      |                  | \$67,442           | \$67,442               | \$0.74          |                |
| Subtotal Div. 11                      | \$144,375        |                    | \$144,375              | \$1.58          |                |
| Subtotal Div. 12                      | \$16,819         |                    | \$16,819               | \$0.18          |                |
| Subtotal Div. 13                      | \$238,222        |                    | \$238,222              | \$2.60          |                |
| Subtotal Div. 14                      | \$29,686         |                    | \$29,686               | \$0.32          |                |
| Subtotal of General Construction      | \$429,101        | \$2,408,370        | \$2,837,472            | \$30.97         | 32.52%         |
| HVAC Construction - Alterations       |                  |                    |                        |                 |                |
| Subtotal Div. 15                      |                  | \$1,807,342        | \$1,807,342            | \$19.72         | 20.71%         |
| Plumbing Construction - Alterations   |                  |                    |                        |                 |                |
| Subtotal Div. 15                      |                  | \$632,127          | \$632,127              | \$6.90          | 7.24%          |
| Electrical Construction - Alterations |                  |                    |                        |                 |                |
| Subtotal Div. 16                      |                  | \$956,244          | \$956,244              | \$10.44         | 10.96%         |
| <b>Total Alterations</b>              | <b>\$429,101</b> | <b>\$5,804,083</b> | <b>\$8,726,570</b>     | <b>\$95.23</b>  | <b>100.00%</b> |
| New Construction "Large Gym"          | \$103,666        | \$1,416,480        | \$1,520,147            | \$146.14        |                |
| New Construction "Addition"           | \$198,459        | \$4,884,581        | \$5,083,040            | \$132.50        |                |
| <b>Total New Construction</b>         | <b>\$302,125</b> | <b>\$6,301,062</b> | <b>\$6,603,187</b>     | <b>\$135.41</b> |                |

**Shippensburg University**  
**SU-711 Heiges Field House Alterations and Addition**

8/7/00  
 Printed 8/7/00

**Scheme 2**

**Capital Project Cost Estimate & Category Justification Report**

University Priority # \_\_\_\_\_

**PART VI: Cost Estimating Data**

|   |   |                 |                  | <b>Total Cost</b>   |
|---|---|-----------------|------------------|---------------------|
| <b>A.</b>   | <b>Site Prep/Special:</b>   |                 |                  |                     |
|   | 1. Geotechnical Subsurface Investigation  |                 |                  | \$30,000            |
|   | 2. Geotechnical Foundation Design   |                 |                  | \$20,000            |
|   | 3. Subsurface Preparation (Mat Slab)  | 35,000 sqft at  | \$22.00          | \$770,000           |
|   |   |                 | <b>Subtotal:</b> | <b>\$820,000</b>    |
| <b>B.</b>   | <b>Cost (see attached)</b>  |                 |                  |                     |
|   | 1. Addition   |                 |                  | \$6,525,731         |
|   | 2. Renovation   |                 |                  | \$5,804,083         |
|   |   |                 | <b>Subtotal:</b> | <b>\$12,329,814</b> |
| <b>C.</b>   | <b>Special Equipment (built-in equipment, Elevators, ADA, vacuum systems)</b>                                       |                 |                  |                     |
|   | 1. Div. 11, 12, 13, 14 Alterations  |                 |                  | \$429,101           |
|   | 2. Div. 11, 12, 13, 14 New Construction   |                 |                  | \$310,059           |
|   |   |                 | <b>Subtotal:</b> | <b>\$739,160</b>    |
| <b>D.</b>   | <b>Supporting Utilities (list with estimated installation of utility lines beyond 5' line)</b>                      |                 |                  |                     |
|   | 1. New Electrical Service for Building  | 1,000 lin.ft at | \$50             | \$50,000            |
|   | Main Connection and Transformer   | 1 allowance     | \$103,000        | \$103,000           |
|   | 2. New Sanitary Service   | 350 lin.ft at   | \$60             | \$21,000            |
|   | 3. New Water/Fire Service   | 350 lin.ft at   | \$72             | \$25,200            |
|   |   |                 | <b>Subtotal:</b> | <b>\$199,200</b>    |
| <b>E.</b>   | <b>Site Improvements (list with estimates major improvements, e.g. parking, service roads, special landscaping)</b> |                 |                  |                     |
|   | 1. Sidewalks  | 4,000 sqft. @   | \$10             | \$40,000            |
|   | 2. Driveways and Parking  | 60 cars @       | \$1,500          | \$90,000            |
|   | 3. Landscaping  | 1 allowance     | \$50,000         | \$50,000            |
|   |   |                 | <b>Subtotal:</b> | <b>\$180,000</b>    |
| <b>BASE Construction/Renovation Cost</b>                                    |   |                 |                  | <b>\$14,268,174</b> |
| Estimated Design & Construction Contingency (use 20% of base amount)        |   |                 |                  | \$2,853,635         |
| <b>BASE Construction/Renovation + Design &amp; Construction Contingency</b> |   |                 |                  | <b>\$17,121,809</b> |
| Estimated Land Acquisition  |   |                 |                  | \$0                 |
| <b>TOTAL PROJECT COST ESTIMATE:</b>   |   |                 |                  | <b>\$17,121,809</b> |

Figure IV-4

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 2  
Capital Project Cost Estimate

| Summary                                 | SSHE             |                    | Typical Bldg.<br>TOTAL | \$PER GROS SQFT | % of Total     |
|---|------------------|--------------------|------------------------|-----------------|----------------|
|   | Special Equip.   | Construction       |                        |                 |                |
| General Construction - Alterations      |                  |                    |                        |                 |                |
| Subtotal Div. 1                         |                  | \$344,087          | \$344,087              | \$3.76          |                |
| Subtotal Div. 2                         |                  | \$415,392          | \$415,392              | \$4.53          |                |
| Subtotal Div. 3                         |                  | \$30,127           | \$30,127               | \$0.33          |                |
| Subtotal Div. 4                         |                  | \$171,633          | \$171,633              | \$1.87          |                |
| Subtotal Div. 5                         |                  | \$41,428           | \$41,428               | \$0.45          |                |
| Subtotal Div. 6                         |                  | \$20,583           | \$20,583               | \$0.22          |                |
| Subtotal Div. 7                         |                  | \$332,221          | \$332,221              | \$3.63          |                |
| Subtotal Div. 8                         |                  | \$271,789          | \$271,789              | \$2.97          |                |
| Subtotal Div. 9                         |                  | \$713,669          | \$713,669              | \$7.79          |                |
| Subtotal Div. 10                        |                  | \$67,442           | \$67,442               | \$0.74          |                |
| Subtotal Div. 11                        | \$144,375        |                    | \$144,375              | \$1.58          |                |
| Subtotal Div. 12                        | \$16,819         |                    | \$16,819               | \$0.18          |                |
| Subtotal Div. 13                        | \$238,222        |                    | \$238,222              | \$2.60          |                |
| Subtotal Div. 14                        | \$29,686         |                    | \$29,686               | \$0.32          |                |
| <b>Subtotal of General Construction</b> | <b>\$429,101</b> | <b>\$2,408,370</b> | <b>\$2,837,472</b>     | <b>\$30.97</b>  | <b>32.52%</b>  |
| HVAC Construction - Alterations         |                  |                    |                        |                 |                |
| Subtotal Div. 15                        |                  | \$1,807,342        | \$1,807,342            | \$19.72         | 20.71%         |
| Plumbing Construction - Alterations     |                  |                    |                        |                 |                |
| Subtotal Div. 15                        |                  | \$632,127          | \$632,127              | \$6.90          | 7.24%          |
| Electrical Construction - Alterations   |                  |                    |                        |                 |                |
| Subtotal Div. 16                        |                  | \$956,244          | \$956,244              | \$10.44         | 10.96%         |
| <b>Total Alterations</b>                | <b>\$429,101</b> | <b>\$5,804,083</b> | <b>\$8,726,570</b>     | <b>\$95.23</b>  | <b>100.00%</b> |
| New Construction "Large Gym"            | \$103,666        | \$1,416,480        | \$1,520,147            | \$146.14        |                |
| New Construction "Addition"             | \$206,393        | \$5,109,250        | \$5,315,643            | \$132.06        |                |
| <b>Total New Construction</b>           | <b>\$310,059</b> | <b>\$6,525,731</b> | <b>\$6,835,790</b>     | <b>\$134.95</b> |                |

**Shippensburg University**  
**SU-711 Heiges Field House Alterations and Addition**

8/4/00  
 Printed 8/7/00

**Scheme 3**

*Capital Project Cost Estimate & Category Justification Report*

University Priority # \_\_\_\_\_

**PART VI: Cost Estimating Data**

|   |   |                  | <b>Total Cost</b>   |
|---|---|------------------|---------------------|
| <b>A.</b>   | <b>Site Prep/Special:</b>   |                  |                     |
|   | 1. Geotechnical Subsurface Investigation  |                  | \$30,000            |
|   | 2. Geotechnical Foundation Design   |                  | \$20,000            |
|   | 3. Subsurface Preparation (Mat Slab)      35,000 sqft at  | \$22.00          | \$770,000           |
|   |   | <b>Subtotal:</b> | <b>\$820,000</b>    |
| <b>B.</b>   | <b>Cost (see attached)</b>  |                  |                     |
|   | 1. Addition   |                  | \$7,417,463         |
|   | 2. Renovation   |                  | \$5,804,083         |
|   |   | <b>Subtotal:</b> | <b>\$13,221,546</b> |
| <b>C.</b>   | <b>Special Equipment</b> (built-in equipment, Elevators, ADA, vacuum systems)                                       |                  |                     |
|   | 1. Div. 11, 12, 13, 14 Alterations  |                  | \$429,101           |
|   | 2. Div. 11, 12, 13, 14 New Construction   |                  | \$339,850           |
|   |   | <b>Subtotal:</b> | <b>\$768,951</b>    |
| <b>D.</b>   | <b>Supporting Utilities</b> (list with estimated installation of utility lines beyond 5' line)                      |                  |                     |
|   | 1. New Electrical Service for Building      1,000 lin.ft at   | \$50             | \$50,000            |
|   | Main Connection and Transformer      1 allowance  | \$103,000        | \$103,000           |
|   | 2. New Sanitary Service      350 lin.ft at  | \$60             | \$21,000            |
|   | 3. New Water/Fire Service      350 lin.ft at  | \$72             | \$25,200            |
|   |   | <b>Subtotal:</b> | <b>\$199,200</b>    |
| <b>E.</b>   | <b>Site Improvements</b> (list with estimates major improvements, e.g. parking, service roads, special landscaping) |                  |                     |
|   | 1. Sidewalks      4,000 sqft. @   | \$10             | \$40,000            |
|   | 2. Driveways and Parking      60 cars @   | \$1,500          | \$90,000            |
|   | 3. Landscaping      1 allowance   | \$50,000         | \$50,000            |
|   |   | <b>Subtotal:</b> | <b>\$180,000</b>    |
| <b>BASE Construction/Renovation Cost</b>                                    |   |                  | <b>\$15,189,697</b> |
| Estimated Design & Construction Contingency (use 20% of base amount)        |   |                  | \$3,037,939         |
| <b>BASE Construction/Renovation + Design &amp; Construction Contingency</b> |   |                  | <b>\$18,227,636</b> |
| Estimated Land Acquisition  |   |                  | \$0                 |
| <b>TOTAL PROJECT COST ESTIMATE:</b>   |   |                  | <b>\$18,227,636</b> |

Figure IV-4

**SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3**  
Capital Project Cost Estimate

| Summary                                 | SSHE             |                    | Typical Bldg.<br>TOTAL | \$PER GROS SQFT | % of Total     |
|---|------------------|--------------------|------------------------|-----------------|----------------|
|   | Special Equip.   | Construction       |                        |                 |                |
| General Construction - Alterations      |                  |                    |                        |                 |                |
| Subtotal Div. 1                         |                  | \$344,087          | \$344,087              | \$3.76          |                |
| Subtotal Div. 2                         |                  | \$415,392          | \$415,392              | \$4.53          |                |
| Subtotal Div. 3                         |                  | \$30,127           | \$30,127               | \$0.33          |                |
| Subtotal Div. 4                         |                  | \$171,633          | \$171,633              | \$1.87          |                |
| Subtotal Div. 5                         |                  | \$41,428           | \$41,428               | \$0.45          |                |
| Subtotal Div. 6                         |                  | \$20,583           | \$20,583               | \$0.22          |                |
| Subtotal Div. 7                         |                  | \$332,221          | \$332,221              | \$3.63          |                |
| Subtotal Div. 8                         |                  | \$271,789          | \$271,789              | \$2.97          |                |
| Subtotal Div. 9                         |                  | \$713,669          | \$713,669              | \$7.79          |                |
| Subtotal Div. 10                        |                  | \$67,442           | \$67,442               | \$0.74          |                |
| Subtotal Div. 11                        | \$144,375        |                    | \$144,375              | \$1.58          |                |
| Subtotal Div. 12                        | \$16,819         |                    | \$16,819               | \$0.18          |                |
| Subtotal Div. 13                        | \$238,222        |                    | \$238,222              | \$2.60          |                |
| Subtotal Div. 14                        | \$29,686         |                    | \$29,686               | \$0.32          |                |
| <b>Subtotal of General Construction</b> | <b>\$429,101</b> | <b>\$2,408,370</b> | <b>\$2,837,472</b>     | <b>\$30.97</b>  | <b>32.52%</b>  |
| HVAC Construction - Alterations         |                  |                    |                        |                 |                |
| Subtotal Div. 15                        |                  | \$1,807,342        | \$1,807,342            | \$19.72         | 20.71%         |
| Plumbing Construction - Alterations     |                  |                    |                        |                 |                |
| Subtotal Div. 15                        |                  | \$632,127          | \$632,127              | \$6.90          | 7.24%          |
| Electrical Construction - Alterations   |                  |                    |                        |                 |                |
| Subtotal Div. 16                        |                  | \$956,244          | \$956,244              | \$10.44         | 10.96%         |
| <b>Total Alterations</b>                | <b>\$429,101</b> | <b>\$5,804,083</b> | <b>\$8,726,570</b>     | <b>\$95.23</b>  | <b>100.00%</b> |
| New Construction "Large Gym"            | \$105,063        | \$1,504,192        | \$1,609,255            | \$144.82        |                |
| New Construction "Addition"             | \$234,787        | \$5,913,271        | \$6,148,058            | \$130.80        |                |
| <b>Total New Construction</b>           | <b>\$339,850</b> | <b>\$7,417,463</b> | <b>\$7,757,313</b>     | <b>\$133.48</b> |                |



## Conceptual Cost Estimate for the Relocation of the Faculty Office Building

*Project:* Shippensburg University  
SU-711 Heiges Field House Addition Study  
Contract 600216 - Work Order #97-1  
Entech #2184.02

*Date:* November 3, 1998

- A. Assumptions:** The conceptual cost estimate has used the following assumptions and basis for the development of the cost. Any consideration of the project must be fully evaluated these issues and make adjustments for any changes which would affect the project cost.
1. Cost are primarily derived from detailed take offs using various volumes of 1998 Means construction cost guides.
  2. A location cost factor of 0.96 has been applied to the Means cost.
  3. Cost have been projected to a construction start in the summer of 1999 using an inflation factor of 2%.
  4. The project will be administered following SSHE procurement procedures and be performed under three separate prime contracts.
  5. General conditions, overhead and profit for the contract has been assumed to be 15%.
  6. A construction cost contingency of 15% has been applied to all cost to address issues unknown and undefined at this time and level of detail.
- B. Scope of Work:** The existing Faculty Office Building, which was originally constructed as a temporary facility is 28 years old. As with most buildings of this age, it is at the end of its original useful life and will require most of its elements and systems to be fully replaced as part of a relocation. The only salvageable items which are considered to be viable for relocation is the main steel frame structural system. All interior and exterior wall systems, roof, doors and windows are to be replaced due to age or the impracticality of relocation.



**C. Cost Estimate**

|   |                   |                  |
|---|-------------------|------------------|
| DIVISION 1 - GENERAL REQUIREMENTS                       | Included<br>Below |                  |
| DIVISION 2 - SITE CONSTRUCTION                          |                   |                  |
| A. New site preparation and finish grading              | \$16,700          |                  |
| B. Existing Site Closure                                | \$10,000          |                  |
| C. Selective Demolition and Dismantling of Structure    | \$13,000          |                  |
| DIVISION 3 - CONCRETE                                   |                   |                  |
| A. Substructure foundations, slab on grade, & sidewalks | \$67,600          |                  |
| DIVISION 4 - MASONRY                                    | \$0               |                  |
| DIVISION 5 - METAL                                      |                   |                  |
| A. Labor to Erect existing Steel Frame                  | \$16,700          |                  |
| DIVISION 6 - WOOD AND PLASTIC                           | \$0               |                  |
| DIVISION 7 - THERMAL & MOISTURE PROTECTION              |                   |                  |
| A. Exterior walls and roof systems                      | \$83,500          |                  |
| DIVISION 8 - DOORS AND WINDOWS                          | \$55,700          |                  |
| DIVISION 9 - FINISHES                                   | \$88,600          |                  |
| DIVISION 10 - SPECIALTIES                               | \$3,300           |                  |
| DIVISION 11 - EQUIPMENT                                 | \$0               |                  |
| DIVISION 12 - FURNISHINGS                               | \$0               |                  |
| DIVISION 13 - SPECIAL CONSTRUCTION                      | \$0               |                  |
| DIVISION 14 - CONVEYING SYSTEMS                         | \$0               |                  |
| <b>GENERAL CONSTRUCTION TOTAL</b>                       |                   | <b>\$355,100</b> |

|  |          |                  |
|--|----------|------------------|
| DIVISION 15 - MECHANICAL                     |          |                  |
| A. Plumbing                                  | \$10,300 |                  |
| B. HVAC                                      | \$81,500 |                  |
| <b>MECHANICAL CONSTRUCTION TOTAL</b>         |          | <b>\$91,800</b>  |
| DIVISION 16 - ELECTRICAL                     | \$42,700 |                  |
| <b>ELECTRICAL CONSTRUCTION TOTAL</b>         |          | <b>\$42,700</b>  |
| <b>WATER AND SEWER SITE CONNECTIONS</b>      |          | <b>\$12,600</b>  |
| <b>ELECTRICAL SERVICE</b>                    |          | <b>\$7,800</b>   |
| <b>TOTAL CONSTRUCTION COST</b>               |          | <b>\$510,000</b> |
| <b>@ 6500 gross sq. ft. Cost per sq. ft.</b> |          | <b>\$78.46</b>   |

**D. Comparison:** The SSHE, in Supplement #7 of the Facilities Manual, calculates the replacement cost of university facilities. Using these cost factors the applicable replacement cost of a faculty office facility would be as follows.

“Assignable Net sq.ft.” X “Gross to Net Ratio” X “Area Cost Factor” X  
“Use Category Cost per Sq. Ft.” *plus* Site Development Cost

|   |                  |
|---|------------------|
| 4500 sq. ft. X 1.455 X 0.96 X \$103 per sq. ft. = | \$647,417.       |
| Plus Site Development cost estimated at           | \$ 20,000        |
| <b>Project Replacement Cost</b>                   | <b>\$667,417</b> |

|  |           |
|--|-----------|
| @ 6500 gross sq. ft. Cost per sq. ft = | \$ 102.68 |
|--|-----------|

**APPENDIX J**

**BUDGET COST ESTIMATE DETAILS**  
**Scheme 3**

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Summary                               | SSHE             |                    | Typical Bldg.<br>TOTAL | \$ PER GROS SQFT | % of Total     |
|---------------------------------------|------------------|--------------------|------------------------|------------------|----------------|
|                                       | Special Equip.   | Construction       |                        |                  |                |
| General Construction - Alterations    |                  |                    |                        |                  |                |
| Subtotal Div. 1                       |                  | \$344,087          | \$344,087              | \$3.76           |                |
| Subtotal Div. 2                       |                  | \$415,392          | \$415,392              | \$4.53           |                |
| Subtotal Div. 3                       |                  | \$30,127           | \$30,127               | \$0.33           |                |
| Subtotal Div. 4                       |                  | \$171,633          | \$171,633              | \$1.87           |                |
| Subtotal Div. 5                       |                  | \$41,428           | \$41,428               | \$0.45           |                |
| Subtotal Div. 6                       |                  | \$20,583           | \$20,583               | \$0.22           |                |
| Subtotal Div. 7                       |                  | \$332,221          | \$332,221              | \$3.63           |                |
| Subtotal Div. 8                       |                  | \$271,789          | \$271,789              | \$2.97           |                |
| Subtotal Div. 9                       |                  | \$713,669          | \$713,669              | \$7.79           |                |
| Subtotal Div. 10                      |                  | \$67,442           | \$67,442               | \$0.74           |                |
| Subtotal Div. 11                      | \$144,375        |                    | \$144,375              | \$1.58           |                |
| Subtotal Div. 12                      | \$16,819         |                    | \$16,819               | \$0.18           |                |
| Subtotal Div. 13                      | \$238,222        |                    | \$238,222              | \$2.60           |                |
| Subtotal Div. 14                      | \$29,686         |                    | \$29,686               | \$0.32           |                |
| Subtotal of General Construction      | \$429,101        | \$2,408,370        | \$2,837,472            | \$30.97          | 32.52%         |
| HVAC Construction - Alterations       |                  |                    |                        |                  |                |
| Subtotal Div. 15                      |                  | \$1,807,342        | \$1,807,342            | \$19.72          | 20.71%         |
| Plumbing Construction - Alterations   |                  |                    |                        |                  |                |
| Subtotal Div. 15                      |                  | \$632,127          | \$632,127              | \$6.90           | 7.24%          |
| Electrical Construction - Alterations |                  |                    |                        |                  |                |
| Subtotal Div. 16                      |                  | \$956,244          | \$956,244              | \$10.44          | 10.96%         |
| <b>Total Alterations</b>              | <b>\$429,101</b> | <b>\$5,804,083</b> | <b>\$8,726,570</b>     | <b>\$95.23</b>   | <b>100.00%</b> |
| New Construction "Large Gym"          | \$105,063        | \$1,504,192        | \$1,609,255            | \$144.82         |                |
| New Construction "Addition"           | \$234,787        | \$5,913,271        | \$6,148,058            | \$130.80         |                |
| <b>Total New Construction</b>         | <b>\$339,850</b> | <b>\$7,417,463</b> | <b>\$7,757,313</b>     | <b>\$133.48</b>  |                |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Alterations General Construction |   |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|----------------------------------|---|-----------------------|-------------------------|----------------------|------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------|-------------------------------------|--|--|--|
| Est. Source<br>Means '00         | ITEM  | QUANTITY<br>No. Units | MATERIAL<br>\$ PER UNIT | LABOR<br>\$ PER UNIT | LABOR PRICES<br>TOTAL x .95<br>28% | MARKUPS<br>Overhead & Profit<br>15% | Public Contract<br>20% | SSHE<br>Special Equip. | SSHE<br>Contract Allow. | Typical Bldg.<br>TOTAL<br>w/ Markup |  |  |  |
|                                  | <b>Division 1</b>   |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | General Requirements (10%)                                    | 10%                   |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | 10% of the subtotal of Div 2 thru 16                          |                       | \$208,428               |                      |                                    |                                     |                        |                        |                         | \$284,871                           |  |  |  |
|                                  | except 11, 12, 13 & 14  |                       | \$429,101               |                      |                                    | \$0                                 | \$47,479               | \$59,216               | \$284,871               | \$59,216                            |  |  |  |
|                                  | 10% of the subtotal of Div 11 thru 14                         |                       |                         |                      |                                    | \$0                                 | \$9,869                | \$59,216               | \$284,871               | \$344,087                           |  |  |  |
|                                  | <b>Subtotal Division 1</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | <b>Division 2 - Site and Demolition</b>                       |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | Interior General Demo. (excludes Arena)                       | 5500                  | \$0.00                  | \$4.00               | \$210,800                          | \$0                                 | \$62,089               | \$372,534              | \$372,534               | \$372,534                           |  |  |  |
|                                  | Remove Conc. Slab @ Locker Room                               | 2000                  | \$0.00                  | \$12.77              | \$24,263                           | \$0                                 | \$7,143                | \$42,958               | \$42,958                | \$42,958                            |  |  |  |
|                                  | <b>Subtotal Division 2</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
| 02225-370-0200                   |   |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | <b>Division 3 - Concrete</b>                                  |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
| A2.1-200-2240                    | Repair Conc. Slab for Plumbing<br>(Difficulty Factor of 3)    | 2000                  | \$3.81                  | \$6.00               | \$11,400                           | \$3,192                             | \$5,021                | \$30,127               | \$30,127                | \$30,127                            |  |  |  |
|                                  | <b>Subtotal Division 3</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | <b>Division 4 - Masonry</b>                                   |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
| 04910-720-0320                   | Exterior Masonry Restoration (50%)                            | 6000                  | \$0.24                  | \$4.15               | \$23,659                           | \$9,623                             | \$7,279                | \$43,672               | \$43,672                | \$43,672                            |  |  |  |
| 04930-220-0820                   | Exterior Power Cleaning                                       | 36000                 | \$0.16                  | \$1.13               | \$38,646                           | \$10,821                            | \$12,639               | \$75,816               | \$75,816                | \$75,816                            |  |  |  |
| 04910-200-1150                   | Cut and Rebulk Precast Panels                                 | 2700                  | \$0.67                  | \$1.80               | \$4,874                            | \$1,365                             | \$1,893                | \$10,980               | \$10,980                | \$10,980                            |  |  |  |
|                                  | Scarfing for All Above  | 1                     | \$25,000                | \$5,000              | \$4,750                            | \$1,330                             | \$8,961                | \$41,165               | \$41,165                | \$41,165                            |  |  |  |
|                                  | <b>Subtotal Division 4</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | <b>Division 5 - Metals</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
| 09910-710-0270                   | Repair Exterior Metal Panel Walls<br>(Difficulty Factor of 2) | 17000                 | \$0.48                  | \$0.50               | \$9,075                            | \$2,261                             | \$4,160                | \$24,961               | \$24,961                | \$24,961                            |  |  |  |
|                                  | Scarfing for Above  | 1                     | \$10,000                | \$2,000              | \$1,900                            | \$632                               | \$2,744                | \$16,466               | \$16,466                | \$16,466                            |  |  |  |
|                                  | <b>Subtotal Division 5</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | <b>Division 6 - Woods and Plastics</b>                        |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |
|                                  | Architectural Casework  | 50                    | \$250                   | \$50.00              | \$2,375                            | \$665                               | \$3,430                | \$20,583               | \$20,583                | \$20,583                            |  |  |  |
|                                  | <b>Subtotal Division 6</b>                                    |                       |                         |                      |                                    |                                     |                        |                        |                         |                                     |  |  |  |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Est. Source<br>Means '00 | ITEM                                       | QUANTITY | UNIT       | MATERIAL    |          | LABOR       |          | MARKUPS                  |                   |                        | SSHE           |              | Typical Bldg.<br>TOTAL |
|--------------------------|--|----------|------------|-------------|----------|-------------|----------|--------------------------|-------------------|------------------------|----------------|--------------|------------------------|
|                          |  |          |            | \$ PER UNIT | TOTAL \$ | \$ PER UNIT | TOTAL \$ | Overhead & Profit<br>15% | Contingency<br>5% | Public Contract<br>20% | Special Equip. | Construction |                        |
|                          | <b>Division 7 - Thermal &amp; Moisture</b> |          |            |             |          |             |          |                          |                   |                        |                |              |                        |
| 02200-890-3000           | Roof and Insulation removal                | 64900    | sq. ft.    | \$0.00      | \$0.00   | \$49,324    | \$0.80   | \$13,811                 | \$9,470           | \$14,521               | \$87,126       | \$87,126     |                        |
| 07220-700-1745           | New Insulation on Flat Roof                | 28800    | sq. ft.    | \$0.59      | \$16,142 | \$5,472     | \$0.20   | \$1,532                  | \$3,472           | \$5,324                | \$31,942       | \$31,942     |                        |
| 07530-800-8890           | Reroofing of Arena (PVC)                   | 36700    | sq. ft.    | \$1.12      | \$39,410 | \$12,003    | \$0.35   | \$1,261                  | \$8,065           | \$12,368               | \$74,209       | \$74,209     |                        |
| 07530-800-4820           | Reroofing of Classrooms and Pool (EPDM)    | 20000    | sq. ft.    | \$0.44      | \$8,800  | \$6,950     | \$0.35   | \$1,261                  | \$2,531           | \$3,881                | \$23,283       | \$23,283     |                        |
| 07530-800-4820           | Reroofing of Arena Storage                 | 8800     | sq. ft.    | \$0.44      | \$3,872  | \$2,826     | \$0.35   | \$1,114                  | \$1,707           | \$2,445                | \$10,245       | \$10,245     |                        |
|                          | Perimeter Flashings and Coping             | 1780     | linear ft. | \$12.00     | \$20,964 | \$8,360     | \$5.00   | \$2,341                  | \$4,815           | \$7,076                | \$42,455       | \$42,455     |                        |
|                          | Miscellaneous Roof Allowance 15%           | 1        | allow.     | \$16,156    | \$16,156 | \$23,022    | \$24,233 | \$6,446                  | \$6,844           | \$10,493               | \$62,960       | \$62,960     |                        |
|                          | <b>Subtotal Division 7</b>                 |          |            |             |          |             |          |                          |                   |                        |                | \$332,221    |                        |
|                          | <b>Division 8 - Doors and Windows</b>      |          |            |             |          |             |          |                          |                   |                        |                |              |                        |
| M.310.6.4                | Int. Doors and Frames (250sf / door)       | 31200    | sq. ft.    | \$1.85      | \$5,775  | \$1,410     | \$0.25   | \$2,075                  | \$9,848           | \$14,793               | \$68,760       | \$68,760     |                        |
| 08411-140-0400           | Main Entry Drs. Frames, and Transoms       | 4        | pair       | \$625.00    | \$2,500  | \$1,748     | \$460.00 | \$489                    | \$692             | \$1,061                | \$6,365        | \$6,365      |                        |
| 08411-140-1600           | Main Entry Door Hardware                   | 8        | doors      | \$1,200.00  | \$9,120  | \$0         | \$0.00   | \$0                      | \$1,368           | \$2,098                | \$12,886       | \$12,886     |                        |
| 08810-460-0700           | Main Entry Door Glazing                    | 320      | sq. ft.    | \$15.40     | \$4,928  | \$1,763     | \$5.80   | \$484                    | \$1,041           | \$1,506                | \$9,575        | \$9,575      |                        |
| 02225-340-3900           | Removal of Entry Doors                     | 8        | sq. ft.    | \$0.00      | \$0      | \$1,140     | \$150.00 | \$319                    | \$219             | \$336                  | \$2,014        | \$2,014      |                        |
| A4.6-100-3700            | Doors and Frames Hollow Metal (Arenas)     | 34       | pair       | \$1,650.00  | \$56,100 | \$11,951    | \$370.00 | \$3,346                  | \$10,289          | \$15,778               | \$94,657       | \$94,657     |                        |
| 02225-340-0220           | Removal of Hollow Metal Drs & Frames       | 34       | sq. ft.    | \$0.00      | \$0      | \$1,489     | \$46.10  | \$417                    | \$286             | \$438                  | \$2,630        | \$2,630      |                        |
| A4.6-100-3850            | Exterior Doors and Frames Hollow Metal     | 6        | each       | \$1,000.00  | \$6,000  | \$1,397     | \$245.00 | \$391                    | \$1,123           | \$1,722                | \$10,333       | \$10,333     |                        |
| 02225-340-0220           | Removal of Hollow Metal Drs & Frames       | 6        | sq. ft.    | \$0.00      | \$0      | \$283       | \$46.10  | \$74                     | \$50              | \$77                   | \$464          | \$464        |                        |
| 08400-650-1100           | Window Replacement                         | 1300     | sq. ft.    | \$16.00     | \$20,800 | \$4,681     | \$3.78   | \$1,311                  | \$3,663           | \$5,923                | \$35,537       | \$35,537     |                        |
| 02225-850-0280           | Removal of Exist. Window Fr. and Glass     | 1300     | sq. ft.    | \$0.00      | \$0      | \$1,976     | \$1.60   | \$553                    | \$379             | \$592                  | \$3,490        | \$3,490      |                        |
| 8300-720-0500            | Replace Overhead Door in Arena             | 1        | each       | \$2,968.00  | \$2,968  | \$699       | \$736.00 | \$196                    | \$57              | \$864                  | \$5,126        | \$5,126      |                        |
| 02225-340-3440           | Remove Overhead Door                       | 1        | each       | \$0.00      | \$0      | \$143       | \$150.00 | \$40                     | \$27              | \$42                   | \$252          | \$252        |                        |
|                          | <b>Subtotal Division 8</b>                 |          |            |             |          |             |          |                          |                   |                        |                | \$271,789    |                        |
|                          | <b>Division 9 - Finishes</b>               |          |            |             |          |             |          |                          |                   |                        |                |              |                        |
| M.120.6.1                | Partitions (10 sf floor per ft pb.)        | 31200    | sq. ft.    | \$2.23      | \$69,696 | \$99,294    | \$3.35   | \$27,802                 | \$28,979          | \$44,436               | \$266,607      | \$266,607    |                        |
| M.120.6.6                | Floor Finishes                             | 31200    | sq. ft.    | \$2.52      | \$78,624 | \$24,898    | \$0.84   | \$6,971                  | \$15,984          | \$24,509               | \$147,055      | \$147,055    |                        |
| 09510-760-0900           | Ceiling Finishes                           | 31200    | sq. ft.    | \$1.61      | \$50,712 | \$19,266    | \$0.65   | \$5,384                  | \$10,867          | \$16,648               | \$99,886       | \$99,886     |                        |
| M.120.6.5                | Wall Finishes                              | 31200    | sq. ft.    | \$0.23      | \$6,816  | \$59,280    | \$2.00   | \$16,598                 | \$12,404          | \$19,020               | \$114,120      | \$114,120    |                        |
|                          | Squash Court Rehabilitation                | 4        | counts     | \$10,000    | \$36,000 | \$19,000    | \$5,000  | \$5,320                  | \$9,348           | \$14,334               | \$86,002       | \$86,002     |                        |
|                          | <b>Subtotal Division 9</b>                 |          |            |             |          |             |          |                          |                   |                        |                | \$713,669    |                        |
|                          | <b>Division 10 - Specialties</b>           |          |            |             |          |             |          |                          |                   |                        |                |              |                        |
| 10600-200-0410           | Metal Lockers and Benches                  | 200      | persons    | \$66.30     | \$13,260 | \$2,155     | \$11.34  | \$603                    | \$2,303           | \$3,532                | \$21,190       | \$21,190     |                        |
| 10150-100-2550           | Signage                                    | 1        | allow.     | \$2,000.00  | \$2,000  | \$475       | \$500.00 | \$133                    | \$376             | \$577                  | \$3,461        | \$3,461      |                        |
|                          | Toilet Partitions                          | 30       | each       | \$760.00    | \$22,800 | \$598       | \$75.00  | \$200                    | \$3,659           | \$5,611                | \$33,668       | \$33,668     |                        |
|                          | Toilet Room Accessories                    | 30       | allow.     | \$200.00    | \$6,000  | \$713       | \$25.00  | \$200                    | \$992             | \$1,521                | \$9,125        | \$9,125      |                        |
|                          | Classroom Fixed Equipment                  | 0        | allow.     | \$0.00      | \$0      | \$0         | \$0.00   | \$0                      | \$0               | \$0                    | \$0            | \$0          |                        |
|                          | <b>Subtotal Division 10</b>                |          |            |             |          |             |          |                          |                   |                        |                | \$67,442     |                        |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Est. Source Means '00                   | ITEM                              | QTY  | UNIT    | MATERIAL    |             | LABOR       |             | MARKUPS               |                | SSHE      | SSHE        | Typical Bldg. |
|---|-----------------------------------|------|---------|-------------|-------------|-------------|-------------|-----------------------|----------------|-----------|-------------|---------------|
|   |                                   |      |         | \$ PER UNIT | TOTAL \$    | \$ PER UNIT | TOTAL \$    | Overhead & Profit 15% | Contingency 5% |           |             |               |
| <b>Division 11 - Equipment</b>          |                                   |      |         |             |             |             |             |                       |                |           |             |               |
| 11486-700-3000                          | Beachers Swimming Pool            | 200  | seat    | \$9,690     | \$1,938,000 | \$14.10     | \$2,820.00  | \$750                 | \$1,968        | \$3,017   | \$18,104    | \$18,104      |
| 11486-700-7500                          | Score Board Pool                  | 1    | each    | \$7,600     | \$7,600.00  | \$1,186     | \$1,186.00  | \$333                 | \$1,366        | \$2,098   | \$12,666    | \$12,666      |
| 11400                                   | Food Service Equipment            | 1    | allow.  | \$23,750    | \$23,750.00 | \$1,425     | \$1,425.00  | \$399                 | \$3,938        | \$5,892   | \$35,292    | \$35,292      |
| 11119                                   | Laundry Equipment                 | 1    | allow.  | \$47,500    | \$47,500.00 | \$5,225     | \$5,225.00  | \$1,463               | \$8,128        | \$12,463  | \$74,779    | \$74,779      |
| 11103                                   | Mercantile Equipment              | 1    | allow.  | \$2,375     | \$2,375.00  | \$190       | \$190.00    | \$53                  | \$393          | \$602     | \$3,613     | \$3,613       |
|   | <b>Subtotal Division 11</b>       |      |         |             |             |             |             |                       |                |           | \$144,375   | \$144,375     |
| <b>Division 12 - Furnishings</b>        |                                   |      |         |             |             |             |             |                       |                |           |             |               |
| 12300-200-3000                          | Display Cases                     | 2    | each    | \$2,801.00  | \$5,602.00  | \$570       | \$1,140.00  | \$160                 | \$908          | \$1,392   | \$8,351     | \$8,351       |
| 12492-100-4500                          | Blinds and Shades (est. quantity) | 900  | sq. ft. | \$6.55      | \$5,895.00  | \$0.49      | \$441.00    | \$117                 | \$920          | \$1,411   | \$8,468     | \$8,468       |
|   | <b>Subtotal Division 12</b>       |      |         |             |             |             |             |                       |                |           | \$16,819    | \$16,819      |
| <b>Division 13 - Special Construct.</b> |                                   |      |         |             |             |             |             |                       |                |           |             |               |
| Vendor                                  | Swimming Pool Rehabilitation      | 3375 | sq. ft. | \$18.00     | \$60,150.00 | \$28.00     | \$94,500.00 | \$25,137              | \$25,894       | \$39,704  | \$238,222   | \$238,222     |
|   | Asbestos Abatement                | 0    | sq. ft. | \$0.00      | \$0.00      | \$0.00      | \$0.00      | \$0                   | \$0            | \$0       | \$0         | \$0           |
|   | Lead Paint Abatement              | 0    | sq. ft. | \$0.00      | \$0.00      | \$0.00      | \$0.00      | \$0                   | \$0            | \$0       | \$0         | \$0           |
|   | <b>Subtotal Division 13</b>       |      |         |             |             |             |             |                       |                |           | \$238,222   | \$238,222     |
| <b>Division 14</b>                      |                                   |      |         |             |             |             |             |                       |                |           |             |               |
| 14210-200-3325                          | Reurbish Elevator Cab             | 1    | each    | \$3,798     | \$3,798.00  | \$2,000.00  | \$2,000.00  | \$532                 | \$935          | \$1,433   | \$8,508     | \$8,508       |
| 14210-200-3625                          | New Shaft Doors and Operators     | 3    | each    | \$2,123     | \$6,369.00  | \$1,425     | \$4,275.00  | \$399                 | \$592          | \$808     | \$5,447     | \$5,447       |
| 14210-200-3700                          | Floor Call Button System          | 3    | each    | \$428       | \$1,284.00  | \$195       | \$585.00    | \$55                  | \$102          | \$155     | \$935       | \$935         |
| 14210-200-2150                          | Machine Room Equip. Replacement   | 1    | each    | \$4,428     | \$4,428.00  | \$475       | \$475.00    | \$133                 | \$725          | \$1,112   | \$6,673     | \$6,673       |
| 14210-200-3150                          | Control System Upgrade            | 1    | each    | \$2,425.00  | \$2,425.00  | \$769       | \$769.00    | \$221                 | \$497          | \$762     | \$4,572     | \$4,572       |
| 14210-200-3675                          | 12 Month Maintenance Contract     | 1    | each    | \$2,840.00  | \$2,840.00  | \$0.00      | \$0.00      | \$0                   | \$376          | \$577     | \$3,461     | \$3,461       |
|   | <b>Subtotal Division 14</b>       |      |         |             |             |             |             |                       |                |           | \$29,686    | \$29,686      |
| <b>Total</b>                            |                                   |      |         |             |             |             |             |                       |                | \$429,101 | \$2,349,154 | \$2,837,472   |





| Est. Source Means '00 | ITEM   | QUANTITY   | MATERIAL    |             | LABOR       |             | MARKUPS           |                       |                | TOTAL            |
|-----------------------|--|------------|-------------|-------------|-------------|-------------|-------------------|-----------------------|----------------|------------------|
|                       |  |            | \$ PER UNIT | TOTAL x .95 | \$ PER UNIT | TOTAL x .95 | Labor Fringes 20% | Overhead & Profit 15% | Contingency 0% |                  |
|                       |  | # of UNITS | UNIT        |             |             |             |                   |                       |                | W/ Markup        |
|                       | <i>Division 1 - Plumbing</i>   |            |             |             |             |             |                   |                       |                |                  |
|                       | General Requirements (10%)   | 10%        | PC \$       | \$6,235     | \$0.00      | \$0         | \$0               | \$935                 | \$1,434        | \$8,605          |
|                       | <i>Division 15 - Plumbing</i>  |            |             |             |             |             |                   |                       |                |                  |
|                       | Ground Floor Demo of Plumbing  | 15640      | sq.ft.      | \$0         | \$0.50      | \$7,429     | \$2,080           | \$1,426               | \$2,187        | \$13,123         |
| M.310-8.1             | Ground Floor Plumbing  | 15640      | sq.ft.      | \$60,026    | \$4.04      | \$39,968    | \$11,191          | \$16,678              | \$25,573       | \$153,436        |
| AB.2-110-0620         | Ground Floor Fire Protection (Renovation Factor of 1.5)                | 15640      | sq.ft.      | \$11,589    | \$0.78      | \$25,566    | \$7,156           | \$6,645               | \$10,189       | \$61,135         |
|                       | First Floor Office Area Demo   | 11530      | sq.ft.      | \$0         | \$1.00      | \$10,954    | \$3,067           | \$2,103               | \$3,225        | \$19,348         |
| M.120-8.1             | First Floor Office Area Plumbing                                       | 11530      | sq.ft.      | \$36,147    | \$3.30      | \$24,207    | \$6,778           | \$10,070              | \$15,440       | \$92,642         |
| AB.2-110-0620         | First Floor Office Area Fire Protection (Renovation Factor of 1.5)     | 11530      | sq.ft.      | \$8,544     | \$0.78      | \$18,840    | \$5,275           | \$4,899               | \$7,512        | \$45,069         |
|                       | First Floor Pool Demo Plumbing   | 7760       | sq.ft.      | \$0         | \$0.25      | \$1,843     | \$516             | \$354                 | \$543          | \$3,255          |
| M.120-8.1             | First Floor Pool Plumbing  | 7760       | sq.ft.      | \$0         | \$0.00      | \$0         | \$0               | \$0                   | \$0            | \$0              |
| AB.2-110-0620         | First Floor Pool Fire Protection (Renovation Factor of 1.5)            | 7760       | sq.ft.      | \$5,750     | \$1.72      | \$12,680    | \$3,550           | \$3,297               | \$5,055        | \$30,333         |
|                       | First Floor Arena Area (no work)                                       | 36100      | sq.ft.      | \$0         | \$0.00      | \$0         | \$0               | \$0                   | \$0            | \$0              |
|                       | 1st Fl. Arena Stor. & Vestibules Demo                                  | 9074       | sq.ft.      | \$0         | \$0.25      | \$2,155     | \$603             | \$414                 | \$634          | \$3,807          |
| M.690-8.1             | 1st Fl. Arena Stor. & Vestibules Plumb.                                | 9074       | sq.ft.      | \$7,241     | \$0.56      | \$4,827     | \$1,352           | \$2,013               | \$3,087        | \$18,520         |
| AB.2-110-0620         | 1st Fl. Arena Stor. & Vestibules Fire Prot. (Renovation Factor of 1.5) | 9074       | sq.ft.      | \$6,724     | \$1.72      | \$14,827    | \$4,152           | \$3,855               | \$5,912        | \$35,469         |
|                       | Second Floor Demo  | 11530      | sq.ft.      | \$0         | \$0.50      | \$5,477     | \$1,533           | \$1,052               | \$1,612        | \$9,674          |
| M.120-8.1             | Second Floor Plumbing  | 11530      | sq.ft.      | \$36,147    | \$3.21      | \$24,207    | \$6,778           | \$10,070              | \$15,440       | \$92,642         |
| AB.2-110-0620         | Second Floor Fire Protection (Renovation Factor of 1.5)                | 11530      | sq.ft.      | \$8,544     | \$1.72      | \$18,840    | \$5,275           | \$4,899               | \$7,512        | \$45,069         |
|                       | <i>Subtotal Division 15</i>  |            |             |             |             |             |                   |                       |                |                  |
|                       | <b>Total</b>   |            |             |             |             |             |                   |                       |                | <b>\$632,127</b> |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Electrical Construction - Alterations |   |          |             |             |             |             |                       |                 |                |       |           |                  |
|---------------------------------------|---|----------|-------------|-------------|-------------|-------------|-----------------------|-----------------|----------------|-------|-----------|------------------|
| Est. Source Means-00                  | ITEM  | QUANTITY | MATERIAL    |             | LABOR       |             | MARKUPS               |                 | Public Contact | TOTAL | W/ Markup | TOTAL            |
|                                       |   |          | \$ PER UNIT | TOTAL x .85 | \$ PER UNIT | TOTAL x .96 | Overhead & Profit 15% | Contingency 10% |                |       |           |                  |
|                                       | Division 7 - Electrical                     |          |             |             |             |             |                       |                 |                |       |           |                  |
|                                       | General Requirements (10%)                  | 10%      |             | \$9,432     | \$0.00      | \$0         | \$0                   | \$1,415         | \$2,169        |       |           | \$13,017         |
|                                       | Division 78 - Electrical                    |          |             |             |             |             |                       |                 |                |       |           |                  |
|                                       | Ground Floor Demo of Electrical             | 15640    | sq.ft.      | \$0         | \$1.00      | \$14,858    | \$4,160               | \$2,853         | \$4,374        |       |           | \$26,245         |
| M.310-9.1                             | Ground Floor Service and Distribution       | 15640    | sq.ft.      | \$5,795     | \$0.26      | \$0         | \$0                   | \$869           | \$1,333        |       |           | \$7,997          |
| M.310-9.2                             | Ground Floor Lighting and Power             | 15640    | sq.ft.      | \$50,220    | \$2.26      | \$33,579    | \$9,402               | \$13,980        | \$128,618      |       |           | \$128,618        |
| M.310-9.4                             | Ground Floor Fire Alarm                     | 15640    | sq.ft.      | \$12,829    | \$0.56      | \$8,320     | \$2,330               | \$3,492         | \$5,354        |       |           | \$32,126         |
|                                       | Ground Floor Data and Communications        | 30       | Drops       | \$4,275     | \$50.00     | \$1,425     | \$399                 | \$915           | \$1,403        |       |           | \$8,417          |
|                                       | First Floor Office Area Demo                | 11530    | sq.ft.      | \$0         | \$1.00      | \$10,954    | \$3,067               | \$2,103         | \$3,225        |       |           | \$19,348         |
| M.120-9.1                             | First Floor Office Area Service & Distrib.  | 11530    | sq.ft.      | \$8,106     | \$0.50      | \$5,477     | \$1,533               | \$2,267         | \$3,477        |       |           | \$20,860         |
| M.120-9.2                             | First Floor Office Area Lighting and Pow.   | 11530    | sq.ft.      | \$52,139    | \$3.18      | \$34,832    | \$9,753               | \$14,509        | \$22,246       |       |           | \$133,479        |
| M.460-9.04                            | First Floor Office Fire Alarm               | 11530    | sq.ft.      | \$1,424     | \$0.07      | \$767       | \$215                 | \$361           | \$553          |       |           | \$3,319          |
| M.210-9.4                             | First Fl. Data and Communications           | 11530    | sq.ft.      | \$13,692    | \$0.84      | \$9,201     | \$2,576               | \$3,820         | \$5,858        |       |           | \$35,147         |
|                                       | First Floor Pool Electrical Demo            | 7760     | sq.ft.      | \$0         | \$1.00      | \$7,372     | \$2,064               | \$1,415         | \$2,170        |       |           | \$13,022         |
| M.310-9.1                             | First Floor Pool Service and Distrib.       | 7760     | sq.ft.      | \$2,875     | \$0.26      | \$1,917     | \$537                 | \$799           | \$1,226        |       |           | \$7,353          |
| M.310-9.2                             | First Floor Pool Lighting and Power         | 7760     | sq.ft.      | \$24,917    | \$2.26      | \$16,661    | \$4,665               | \$6,936         | \$10,638       |       |           | \$63,815         |
| M.310-9.4                             | First Floor Pool Fire Alarm                 | 7760     | sq.ft.      | \$6,266     | \$0.56      | \$4,128     | \$1,156               | \$1,733         | \$2,657        |       |           | \$15,940         |
|                                       | First Floor Pool Data & Communications      | 10       | Drops       | \$1,425     | \$50.00     | \$475       | \$133                 | \$305           | \$468          |       |           | \$2,806          |
|                                       | First Floor Arena Area Power of HVAC        | 36100    | sq.ft.      | \$13,375    | \$0.26      | \$8,917     | \$2,497               | \$3,718         | \$5,701        |       |           | \$34,208         |
| M.310-9.1                             | First Floor Arena Area Power General        | 36100    | sq.ft.      | \$13,375    | \$0.26      | \$8,917     | \$2,497               | \$3,718         | \$5,701        |       |           | \$34,208         |
| M.460-9.04                            | Arena Fire Alarm                            | 36100    | sq.ft.      | \$4,458     | \$0.07      | \$2,401     | \$672                 | \$1,130         | \$1,732        |       |           | \$10,393         |
|                                       | Arena Data and Communications               | 20       | Drops       | \$2,650     | \$50.00     | \$950       | \$266                 | \$610           | \$935          |       |           | \$5,611          |
|                                       | 1st Fl. Arena Stor. & Vestibules Demo       | 9074     | sq.ft.      | \$0         | \$1.00      | \$8,620     | \$2,414               | \$1,655         | \$2,538        |       |           | \$15,227         |
| M.310-9.1                             | 1st Fl. Arena Stor. & Vest. Svc. & Distrib. | 9074     | sq.ft.      | \$3,362     | \$0.26      | \$2,241     | \$628                 | \$935           | \$1,433        |       |           | \$8,598          |
| M.310-9.2                             | Arena Stor. & Vest. Lighting and Power      | 9074     | sq.ft.      | \$29,137    | \$2.26      | \$19,482    | \$5,455               | \$6,111         | \$12,437       |       |           | \$74,621         |
| M.310-9.4                             | Arena Stor. & Vest. Fire Alarm              | 9074     | sq.ft.      | \$7,327     | \$0.56      | \$4,827     | \$1,352               | \$2,026         | \$3,106        |       |           | \$18,639         |
|                                       | Arena Stor. & Vest Data and Comm.           | 5        | drops       | \$713       | \$50.00     | \$238       | \$67                  | \$152           | \$234          |       |           | \$1,403          |
|                                       | Second Floor Demo                           | 11530    | sq.ft.      | \$0         | \$1.50      | \$16,430    | \$4,600               | \$3,155         | \$4,837        |       |           | \$29,022         |
| M.120-9.1                             | Second Floor Service and Distribution       | 11530    | sq.ft.      | \$8,106     | \$0.50      | \$5,477     | \$1,533               | \$2,267         | \$3,477        |       |           | \$20,860         |
| M.120-9.2                             | Second Floor Lighting and Power             | 11530    | sq.ft.      | \$52,139    | \$3.18      | \$34,832    | \$9,753               | \$14,509        | \$22,246       |       |           | \$133,479        |
| M.460-9.04                            | Second Floor Fire Alarm                     | 11530    | sq.ft.      | \$1,424     | \$0.07      | \$767       | \$215                 | \$361           | \$553          |       |           | \$3,319          |
| M.210-9.4                             | Second Fl. Data and Communications          | 11530    | sq.ft.      | \$13,692    | \$0.84      | \$9,201     | \$2,576               | \$3,820         | \$5,858        |       |           | \$35,147         |
|                                       | <b>Total</b>                                |          |             |             |             |             |                       |                 |                |       |           | <b>\$956,244</b> |

Opinion of Probable Construction Cost for New Construction of Scheme Three

Design Assumptions:

Using Means Square Foot Cost guide, the proposed addition can be classified into two building types for the purposes of cost estimating: Gymnasium and College Classroom Building. Modifications for basic building construction and special features are then added to the base building cost. Using the Square Foot Cost guide the base square foot cost of each building is determined without general requirements, overhead and profit, contingencies and design fees. Using this "Sub Total" value each construction division is determined by the percentages which are shown in the Means guide for the respective construction items. Additional specialty items are then added to the divisions. Each item is then totaled with the appropriate markups for a SSHE project.

| Building Type:    | Description:   | Means \$ | % without fees | Subtotal \$       |
|-------------------|--|----------|----------------|-------------------|
| Gymnasium (M.310) | One story building with 25 story height.<br>11,112 square feet of floor area<br>Face brick with concrete backup<br>Rigid Steel Frame construction<br>Linear Foot of Perimeter = 444 feet | \$117.50 |                |                   |
|                   | Total Means Cost per Square Foot   | \$117.50 | 74.76%         | \$87.84 per sqft. |

| "Large Gym" Addition Construction |   |          |         |                           |                                 |                |                       |                |          |                     |                     |                   |                               |
|-----------------------------------|---|----------|---------|---------------------------|---------------------------------|----------------|-----------------------|----------------|----------|---------------------|---------------------|-------------------|-------------------------------|
| Est. Source Means 00              | ITEM  | QUANTITY | LIMIT   | % OF SUBTOTAL \$ PER UNIT | \$ PER SQUARE FOOT \$ PER SQFT. | ITEM BASE COST | MARKUPS               |                |          | Public Contract 20% | SSHE Special Equip. | SSHE Construction | Typical Bldg. TOTAL w/ Markup |
|                                   |   |          |         |                           |                                 |                | Overhead & Profit 15% | Contingency 0% |          |                     |                     |                   |                               |
| M.310                             | Division 1 - General Requirements                           | 11112    | sq. ft. | 10.00%                    |                                 |                |                       |                |          |                     |                     |                   |                               |
|                                   | General Requirements  |          |         |                           |                                 |                |                       |                |          |                     |                     |                   |                               |
|                                   | 10% of the subtotal of Div 2 thru 16 except 11, 12, 13 & 14 |          |         |                           |                                 | \$132,179      | \$19,827              | \$30,401       | \$30,401 | \$12,740            | \$182,406           | \$182,406         | \$17,153                      |
|                                   | 10% of the subtotal of Div 11 thru 14                       |          |         |                           |                                 | \$9,232        | \$1,385               | \$2,123        | \$2,123  | \$12,740            | \$182,406           | \$182,406         | \$56,523                      |
|                                   | Subtotal Division 1   |          |         |                           |                                 |                |                       |                |          |                     |                     |                   | \$73,676                      |
| M.310-1.9                         | Division 2 - Site Work                                      | 11112    | sq. ft. | 1.34%                     |                                 |                |                       |                |          |                     |                     |                   |                               |
| A.1.9-100-4660                    | Excavation & Backfill                                       |          |         |                           |                                 |                |                       |                |          |                     |                     |                   |                               |
|                                   | Additional Backfill for Sloped Site                         | 11112    | sq. ft. |                           |                                 | \$12,430       | \$1,864               | \$2,659        | \$2,659  | \$17,153            | \$17,153            | \$17,153          | \$56,523                      |
|                                   | Subtotal Division 2   |          |         |                           |                                 | \$3,669        | \$6,144               | \$9,421        | \$9,421  | \$73,676            | \$73,676            | \$73,676          | \$196,147                     |
| M.310-1.1                         | Division 3 - Concrete                                       | 11112    | sq. ft. | 3.60%                     |                                 |                |                       |                |          |                     |                     |                   |                               |
| M.310-2.1                         | Footings and Foundations                                    |          |         |                           |                                 |                |                       |                |          |                     |                     |                   |                               |
|                                   | Slab on Grade   | 11112    | sq. ft. | 4.46%                     |                                 | \$53,393       | \$5,009               | \$7,680        | \$7,680  | \$46,083            | \$46,083            | \$46,083          | \$57,091                      |
|                                   | Subtotal Division 3   |          |         |                           |                                 | \$41,371       | \$6,206               | \$9,515        | \$9,515  | \$103,174           | \$103,174           | \$103,174         | \$171,533                     |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Est. Source<br>Means '00 | ITEM                              | QUANTITY | % OF SUBTOTAL | \$ PER SQUARE FOOT | ITEM      | MARKUPS           | SSHE                   | SSHE      | Typical Bldg. |
|--------------------------|-----------------------------------|----------|---------------|--------------------|-----------|-------------------|------------------------|-----------|---------------|
|                          |                                   |          |               |                    |           |                   |                        |           |               |
|                          |                                   | UNIT     | \$ PER UNIT   | \$ PER SQ FT       | BASE COST | Contingency<br>0% | Public Contract<br>20% |           | of Markup     |
| M.310-4.1                | Division 4 - Masonry              | 11112    | 7.59%         | \$6.34             | \$70,404  | \$16,193          | \$97,158               | \$97,158  | \$97,158      |
| M.310-5.1                | Exterior Walls                    | 11112    | 1.87%         | \$1.56             | \$17,346  | \$3,990           | \$23,937               | \$23,937  | \$23,937      |
|                          | Interior CMU Partitions           |          |               |                    |           |                   | \$121,095              | \$121,095 | \$121,095     |
|                          | Subtotal Division 4               |          |               |                    |           |                   |                        |           |               |
| M.310-5.7                | Division 5 - Metals               | 11112    | 18.20%        | \$15.99            | \$168,822 | \$38,829          | \$232,974              | \$232,974 | \$232,974     |
|                          | Structural Frame                  |          |               |                    |           |                   | \$232,974              | \$232,974 | \$232,974     |
|                          | Subtotal Division 5               |          |               |                    |           |                   |                        |           |               |
|                          | Division 6 - Wood and Plastics    | 11112    | 0.00%         | \$0.00             | \$0       | \$0               | \$0                    | \$0       | \$0           |
|                          | No Division 6                     |          |               |                    |           |                   | \$0                    | \$0       | \$0           |
|                          | Subtotal Division 6               |          |               |                    |           |                   |                        |           |               |
| M.310-5.1                | Division 7 - Thermal and Moisture | 11112    | 2.33%         | \$2.05             | \$21,613  | \$4,871           | \$29,826               | \$29,826  | \$29,826      |
| M.310-5.7                | Roof Covering                     | 11112    | 1.55%         | \$1.36             | \$14,378  | \$3,307           | \$19,841               | \$19,841  | \$19,841      |
|                          | Insulation                        |          |               |                    |           |                   | \$49,667               | \$49,667  | \$49,667      |
|                          | Subtotal Division 7               |          |               |                    |           |                   |                        |           |               |
|                          | Division 8 - Doors and Windows    | 11112    | 0.44%         | \$0.39             | \$4,081   | \$839             | \$5,632                | \$5,632   | \$5,632       |
|                          | Exterior Doors                    | 11112    | 3.02%         | \$2.92             | \$29,013  | \$6,443           | \$38,658               | \$38,658  | \$38,658      |
|                          | Windows and Glazed Walls          | 11112    | 1.43%         | \$1.26             | \$13,265  | \$3,051           | \$18,305               | \$18,305  | \$18,305      |
|                          | Interior Doors                    |          |               |                    |           |                   | \$62,896               | \$62,896  | \$62,896      |
|                          | Subtotal Division 8               |          |               |                    |           |                   |                        |           |               |
|                          | Division 9 - Finishes             | 11112    | 1.76%         | \$1.47             | \$16,326  | \$3,759           | \$22,529               | \$22,529  | \$22,529      |
|                          | Wall Finishes                     | 11112    | 13.86%        | \$12.18            | \$128,564 | \$29,570          | \$177,418              | \$177,418 | \$177,418     |
|                          | Floor Finishes                    | 11112    | 0.72%         | \$0.63             | \$6,679   | \$1,536           | \$9,217                | \$9,217   | \$9,217       |
|                          | Ceiling Finishes                  | 11112    | 1.91%         | \$1.68             | \$17,717  | \$4,075           | \$24,449               | \$24,449  | \$24,449      |
|                          | Interior Surface/Exterior Wall    |          |               |                    |           |                   | \$233,614              | \$233,614 | \$233,614     |
|                          | Subtotal Division 9               |          |               |                    |           |                   |                        |           |               |
| 10500-200-1100           | Division 10 - Specialties         | 1800     |               | \$50.83            | \$81,320  | \$18,704          | \$112,222              | \$112,222 | \$112,222     |
|                          | Folding Partition of Large Gym    | 1        |               | \$475              | \$475     | \$109             | \$656                  | \$656     | \$656         |
|                          | Signage                           |          |               |                    |           |                   | \$112,877              | \$112,877 | \$112,877     |
|                          | Subtotal Division 10              |          |               |                    |           |                   |                        |           |               |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Est. Source Means '00 | ITEM   | QTY   | UNIT    | % OF SUBTOTAL |              | \$ PER SQUARE FOOT |                | ITEM BASE COST | MARKUPS     |             | Special Equip | RSHE     | RSHE        | Typical Bldg |
|-----------------------|--|-------|---------|---------------|--------------|--------------------|----------------|----------------|-------------|-------------|---------------|----------|-------------|--------------|
|                       |  |       |         | \$ PER UNIT   | \$ PER SQ FT | Contingency        | Public Defined |                | Contingency | Contingency |               |          |             |              |
| M.310-11.1            | Division 11 - Equipment<br>Specialties (includes some Bleachers)   | 11112 | sq. ft. | 1.50%         | \$1.32       | \$1,25             | \$13,914       | \$2,087        | \$3,200     | \$19,201    | \$7,112       | \$19,201 | \$19,201    |              |
| 11486-700-3900        | Bleachers in Large Gym   | 50    | seat    |               | \$108.50     | \$103              | \$5,154        | \$773          | \$1,185     | \$7,112     |               |          | \$7,112     |              |
| 11486-700-7500        | Score Board Large Gym  | 1     | each    |               | \$9,250.00   | \$8,788            | \$8,788        | \$1,318        | \$2,021     | \$12,127    |               |          | \$12,127    |              |
| 11486-700-1450        | BasketBall Backstop  | 6     | each    |               | \$0,850.00   | \$6,508            | \$39,045       | \$5,857        | \$8,980     | \$53,882    |               |          | \$53,882    |              |
|                       | Subtotal Division 11   |       |         |               |              |                    |                |                |             | \$92,322    |               |          | \$92,322    |              |
|                       | Division 12 - Furnishings<br>No Furnishings in Construction Cost   | 0     | sq. ft. |               | \$0.00       | \$0                | \$0            | \$0            | \$0         | \$0         |               |          | \$0         |              |
|                       | Subtotal Division 12   |       |         |               |              |                    |                |                |             | \$0         |               |          | \$0         |              |
|                       | Division 13 - Special Construct.<br>No Special Constructions   | 11112 | sq. ft. | 0.00%         | \$0.00       | \$0.00             | \$0            | \$0            | \$0         | \$0         |               |          | \$0         |              |
|                       | Subtotal Division 13   |       |         |               |              |                    |                |                |             | \$0         |               |          | \$0         |              |
|                       | Division 14 - Elevator<br>No Elevator in this part of Building   | 11112 | sq. ft. | 0.00%         | \$0.00       | \$0.00             | \$0            | \$0            | \$0         | \$0         |               |          | \$0         |              |
|                       | Subtotal Division 14   |       |         |               |              |                    |                |                |             | \$0         |               |          | \$0         |              |
| M.310-8.4             | Division 15.2 - HVAC<br>Heating and Cooling  | 11112 | sq. ft. | 12.48%        | \$10.97      | \$10.42            | \$115,763      | \$17,365       | \$28,626    | \$159,753   |               |          | \$159,753   |              |
|                       | Subtotal Division 15.2   |       |         |               |              |                    |                |                |             | \$159,753   |               |          | \$159,753   |              |
| M.310-8.1             | Division 15.3 - Plumbing<br>Plumbing   | 11112 | sq. ft. | 9.17%         | \$8.06       | \$7.65             | \$85,060       | \$12,796       | \$19,564    | \$117,393   |               |          | \$117,393   |              |
|                       | Reduce Allowance for plumbing in this area since the locker rooms are in the other portion of the building. (0.5%) |       |         |               |              |                    |                |                |             |             |               |          |             |              |
| M.310-8.2             | Fire Protection  | 11112 | sq. ft. | -8.67%        | -\$7.62      | -\$7.24            | -\$80,422      | -\$12,063      | -\$18,497   | -\$110,983  |               |          | -\$110,983  |              |
|                       | Subtotal Division 15.3   |       |         |               |              |                    |                |                |             | -\$18,497   |               |          | -\$110,983  |              |
| M.310-9.1             | Division 16 - Electrical<br>Service and Distribution   | 11112 | sq. ft. | 0.86%         | \$0.77       | \$0.73             | \$9,163        | \$1,224        | \$1,677     | \$11,265    |               |          | \$11,265    |              |
| M.310-9.2             | Lighting and Power   | 11112 | sq. ft. | 7.69%         | \$6.75       | \$6.41             | \$71,239       | \$10,686       | \$16,385    | \$98,310    |               |          | \$98,310    |              |
| M.310-9.4             | Special Electrical<br>Data and Communications  | 10    | Preps   | 1.92%         | \$1.69       | \$1.60             | \$17,810       | \$2,671        | \$4,096     | \$24,577    |               |          | \$24,577    |              |
|                       | Subtotal Division 16   |       |         |               |              |                    |                |                |             | \$437       |               |          | \$2,622     |              |
|                       | Total  |       |         | 100%          |              |                    |                |                |             | \$105,063   |               |          | \$1,504,192 |              |
|                       |  |       |         |               |              |                    |                |                |             | \$9.45      |               |          | \$135.37    |              |
|                       |  |       |         |               |              |                    |                |                |             |             |               |          | \$144.82    |              |

Total Cost per square foot

Opinion of Probable Construction Cost for New Construction of Scheme Three

Design Assumptions:

Using Means Square Foot Cost guide, the proposed addition can be classified into two building types for the purposes of cost estimating: Gymnasium and College Classroom Building. Modifications for basic building construction and special features are then added to the base building cost. Using the Square Foot Cost guide the base square foot cost of each building is determined without general requirements, overhead and profit, contingencies and design fees. Using this "Sub Total" value each construction division is determined by the percentages which are shown in the Means guide for the respective construction items. Additional specialty items are then added to the divisions. Each item is then totaled with the appropriate markups for a SSHE project.

| Building Type:                | Description:   | Means \$ | % without fees | Subtotal \$       |
|-------------------------------|--|----------|----------------|-------------------|
| College ClassRm Bldg. (M.120) | Two Story building<br>44,929 square feet of floor area<br>Face brick with concrete backup<br>Rigid Steel Frame construction<br>Linear Foot of Perimeter = 444 feet<br>Story Height Adjusted to 14' | \$101.95 |                |                   |
|                               |  | \$1.90   |                |                   |
|                               | Total Means Cost per Square Foot   | \$103.85 | 74.76%         | \$77.64 per sqft. |

| Est. Source<br>Means '00             | ITEM                                  | QTY   | UNIT    | PER UNIT | SUBTOTAL    | PER SQ FT | MARKUPS | ITEM | MARKUPS | SSHE | SSHE | SSHE | Typical Bldg. |
|--------------------------------------|---------------------------------------|-------|---------|----------|-------------|-----------|---------|------|---------|------|------|------|---------------|
|                                      |                                       |       |         |          |             |           |         |      |         |      |      |      |               |
| <b>General Addition Construction</b> |                                       |       |         |          |             |           |         |      |         |      |      |      |               |
| M.120                                | Division 1 - General Requirements     |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | General Requirements                  | 47004 | sq. ft. | 10.00%   |             |           |         |      |         |      |      |      |               |
|                                      | 10% of the subtotal of Div 2 thru 16  |       |         |          | \$5,198,196 |           |         |      |         |      |      |      |               |
|                                      | except 11, 12, 13 & 14                |       |         |          | \$286,316   |           |         |      |         |      |      |      |               |
|                                      | 10% of the subtotal of Div 11 thru 14 |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Subtotal Division 1                   |       |         |          |             |           |         |      |         |      |      |      |               |
| M.120-1.9                            | Division 2 - Site Work                |       |         |          |             |           |         |      |         |      |      |      |               |
| A1.9-100-4660                        | Excavation & Backfill                 | 47004 | sq. ft. | 0.67%    |             |           |         |      |         |      |      |      |               |
|                                      | Excavation & Backfill at Lower Level  | 47004 | sq. ft. |          |             |           |         |      |         |      |      |      |               |
|                                      | Subtotal Division 2                   |       |         |          |             |           |         |      |         |      |      |      |               |
| M.120-1.1                            | Division 3 - Concrete                 |       |         |          |             |           |         |      |         |      |      |      |               |
| M.120-2.1                            | Footings and Foundations              | 47004 | sq. ft. | 1.87%    |             |           |         |      |         |      |      |      |               |
| M.120-3.5                            | Slab on Grade                         | 47004 | sq. ft. | 2.29%    |             |           |         |      |         |      |      |      |               |
|                                      | Conc. Of Elevated Floor               | 47004 | sq. ft. | 2.11%    |             |           |         |      |         |      |      |      |               |
|                                      | Subtotal Division 3                   |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | MARKUPS                               |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Overhead & Profit 15%                 |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Contingency 0%                        |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Public Contract 20%                   |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Special Equip.                        |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | Construction                          |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | TOTAL                                 |       |         |          |             |           |         |      |         |      |      |      |               |
|                                      | WF Markup                             |       |         |          |             |           |         |      |         |      |      |      |               |

SU-711 HEIGES FIELD HOUSE ADDITION - SCHEME 3  
Capital Project Cost Estimate

| Est. Source Means '00 | ITEM                                     | QUANTITY  | % OF SUBTOTAL | \$ PER SQ FT | ITEM BASE COST | Overhead & Profit 15% | MARKUPS         |                   | Special Empls | SSHE Construction | Typical Bldg. |           |
|-----------------------|--|-----------|---------------|--------------|----------------|-----------------------|-----------------|-------------------|---------------|-------------------|---------------|-----------|
|                       |  |           |               |              |                |                       | Contingency 10% | Profit Cont'd 20% |               |                   | W/Markup      | TOTAL     |
|                       |  | Nr. UNITS | \$ PER UNIT   | \$ PER SQ FT | \$ PER SQ FT   |                       |                 |                   |               |                   |               |           |
|                       | <b>Division 4 - Masonry</b>              |           |               |              |                |                       |                 |                   |               |                   |               |           |
| M.120-4-1             | Exterior Walls                           | 47004     | 2.78%         | \$2.16       | \$96,380       | \$14,457              | \$22,167        | \$133,005         |               | \$133,005         |               | \$133,005 |
| M.120-6-1             | Interior CMU Partitions                  | 47004     | 3.62%         | \$3.04       | \$135,903      | \$20,386              | \$31,258        | \$187,547         |               | \$187,547         |               | \$187,547 |
| M.120-3-4             | Structural CMU Walls                     | 47004     | 2.42%         | \$1.88       | \$83,899       | \$12,585              | \$19,297        | \$115,781         |               | \$115,781         |               | \$115,781 |
|                       | <b>Subtotal Division 4</b>               |           |               |              |                |                       |                 | \$436,333         |               | \$436,333         |               | \$436,333 |
|                       | <b>Division 5 - Metals</b>               |           |               |              |                |                       |                 |                   |               |                   |               |           |
| M.120-3-5             | Elevated Floors without Conc.            | 47004     | 5.32%         | \$4.13       | \$184,440      | \$27,666              | \$42,421        | \$254,527         |               | \$254,527         |               | \$254,527 |
| M.120-3-7             | Roof                                     | 47004     | 4.06%         | \$3.15       | \$140,757      | \$21,114              | \$32,374        | \$194,245         |               | \$194,245         |               | \$194,245 |
| M.120-3-9             | Concrete Filled Metal Pan Stairs         | 47004     | 0.90%         | \$0.70       | \$31,202       | \$4,680               | \$7,177         | \$43,059          |               | \$43,059          |               | \$43,059  |
|                       | <b>Subtotal Division 5</b>               |           |               |              |                |                       |                 | \$491,831         |               | \$491,831         |               | \$491,831 |
|                       | <b>Division 6 - Wood and Plastics</b>    |           |               |              |                |                       |                 |                   |               |                   |               |           |
|                       | No Division 6 in Means Bldg.             | 47004     | 0.00%         | \$0.00       | \$0            | \$0                   | \$0             | \$0               |               | \$0               |               | \$0       |
|                       | Architectural Casework                   | 200       |               | \$314.00     | \$58,660.00    | \$8,993.75            | \$13,790.41     | \$82,444          |               | \$82,444          |               | \$82,444  |
|                       | <b>Subtotal Division 6</b>               |           |               |              |                |                       |                 | \$82,444          |               | \$82,444          |               | \$82,444  |
|                       | <b>Division 7 - Thermal and Moisture</b> |           |               |              |                |                       |                 |                   |               |                   |               |           |
| M.120-5-1             | Roof Covering                            | 47004     | 1.48%         | \$1.15       | \$51,310       | \$7,687               | \$11,803        | \$70,808          |               | \$70,808          |               | \$70,808  |
| M.120-4-6             | Insulation                               | 47004     | 0.90%         | \$0.70       | \$31,202       | \$4,680               | \$7,177         | \$43,059          |               | \$43,059          |               | \$43,059  |
| M.120-5-7             | Openings and Specialties                 | 47004     | 0.10%         | \$0.08       | \$3,467        | \$520                 | \$797           | \$4,784           |               | \$4,784           |               | \$4,784   |
|                       | <b>Subtotal Division 7</b>               |           |               |              |                |                       |                 | \$118,652         |               | \$118,652         |               | \$118,652 |
|                       | <b>Division 8 - Doors and Windows</b>    |           |               |              |                |                       |                 |                   |               |                   |               |           |
| M.120-4-6             | Exterior Doors                           | 47004     | 0.26%         | \$0.22       | \$9,707        | \$1,456               | \$2,233         | \$13,396          |               | \$13,396          |               | \$13,396  |
| M.120-4-6             | Windows and Glazed Walls                 | 47004     | 3.96%         | \$3.07       | \$137,290      | \$20,594              | \$31,977        | \$189,460         |               | \$189,460         |               | \$189,460 |
| M.120-6-4             | Interior Doors                           | 47004     | 3.70%         | \$2.87       | \$128,276      | \$19,241              | \$29,503        | \$177,021         |               | \$177,021         |               | \$177,021 |
|                       | <b>Subtotal Division 8</b>               |           |               |              |                |                       |                 | \$379,877         |               | \$379,877         |               | \$379,877 |
|                       | <b>Division 9 - Finishes</b>             |           |               |              |                |                       |                 |                   |               |                   |               |           |
| M.120-6-5             | Wall Finishes                            | 47004     | 3.13%         | \$2.43       | \$108,515      | \$16,277              | \$24,958        | \$149,750         |               | \$149,750         |               | \$149,750 |
| M.120-6-6             | Floor Finishes                           | 47004     | 4.72%         | \$3.66       | \$163,639      | \$24,546              | \$37,637        | \$225,821         |               | \$225,821         |               | \$225,821 |
| M.120-6-7             | Ceiling Finishes                         | 47004     | 4.94%         | \$3.84       | \$171,266      | \$25,690              | \$39,391        | \$236,347         |               | \$236,347         |               | \$236,347 |
| M.120-6-9             | Interior Surface/Exterior Wall           | 47004     | 0.56%         | \$0.43       | \$19,068       | \$2,850               | \$4,386         | \$26,314          |               | \$26,314          |               | \$26,314  |
|                       | <b>Subtotal Division 9</b>               |           |               |              |                |                       |                 | \$638,232         |               | \$638,232         |               | \$638,232 |
|                       | <b>Division 10 - Specialties</b>         |           |               |              |                |                       |                 |                   |               |                   |               |           |
| 10505-500-0130        | Metal Lockers And Benches                | 300       |               | \$201.00     | \$60,285       | \$8,593               | \$13,176        | \$79,053          |               | \$79,053          |               | \$79,053  |
| A6.1-670-0740         | Toilet Partitions                        | 45        |               | \$1,251.00   | \$53,480       | \$8,022               | \$12,300        | \$73,803          |               | \$73,803          |               | \$73,803  |
|                       | Toilet Room Accessories                  | 45        |               | \$232.00     | \$9,918        | \$1,486               | \$2,281         | \$13,687          |               | \$13,687          |               | \$13,687  |
|                       | Signage                                  | 1         |               | \$2,500.00   | \$2,375        | \$356                 | \$548           | \$3,278           |               | \$3,278           |               | \$3,278   |
|                       | <b>Subtotal Division 10</b>              |           |               |              |                |                       |                 | \$169,820         |               | \$169,820         |               | \$169,820 |







**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX K**

**PROPOSED PHASING PLAN**

## **Appendix K**

### **Proposed Phasing Plan**

Phasing of the construction would occur in two basic sequential phases. First, the new addition would be constructed and completed for occupancy. Second, the alterations of the existing three-story portion of the facility would be conducted.

The construction of the addition will require the over excavation of the entire building area to allow the preparation of the subsurface structure, which if it follows the same construction as the existing facility, will require the construction of a thick concrete mat slab beneath the entire structure to stabilize and equalize the support of the building. After the subsurface is prepared, the conventional construction of the addition can proceed. All the facilities of the addition can be completed and occupied prior to the alteration of the existing building, with the exception of the women's locker room that is partly in the new and part in the existing building. Over half of the new women's locker room could be prepared and utilized at the completion of the addition with the remaining portion completed as the alterations are finished. During the construction of the addition precautions will have to be observed for occupancy of the existing building because two means of exit out the north side of the building will be blocked during the construction of the addition.

Upon completion of the addition, the existing athletic offices, locker facilities and fitness center can be occupied in the addition while the alterations are performed. In order to optimize the efficiency of work, the entire three-story portion of the existing building should be vacated. The Athletic Department staff could temporarily occupy the new addition during the alterations. The Arena can continue in use during the entire construction period. There will be only minor interfaces at the perimeter for alterations of areas that will contain the Dressing Room, storage rooms and food concessions. During the alteration work, the only major athletic facility that will not be available is the swimming pool. At the completion of the alterations the athletic offices can be returned to their final locations and the Health and Physical Education Department can be moved from Henderson Gymnasium to the new facilities.

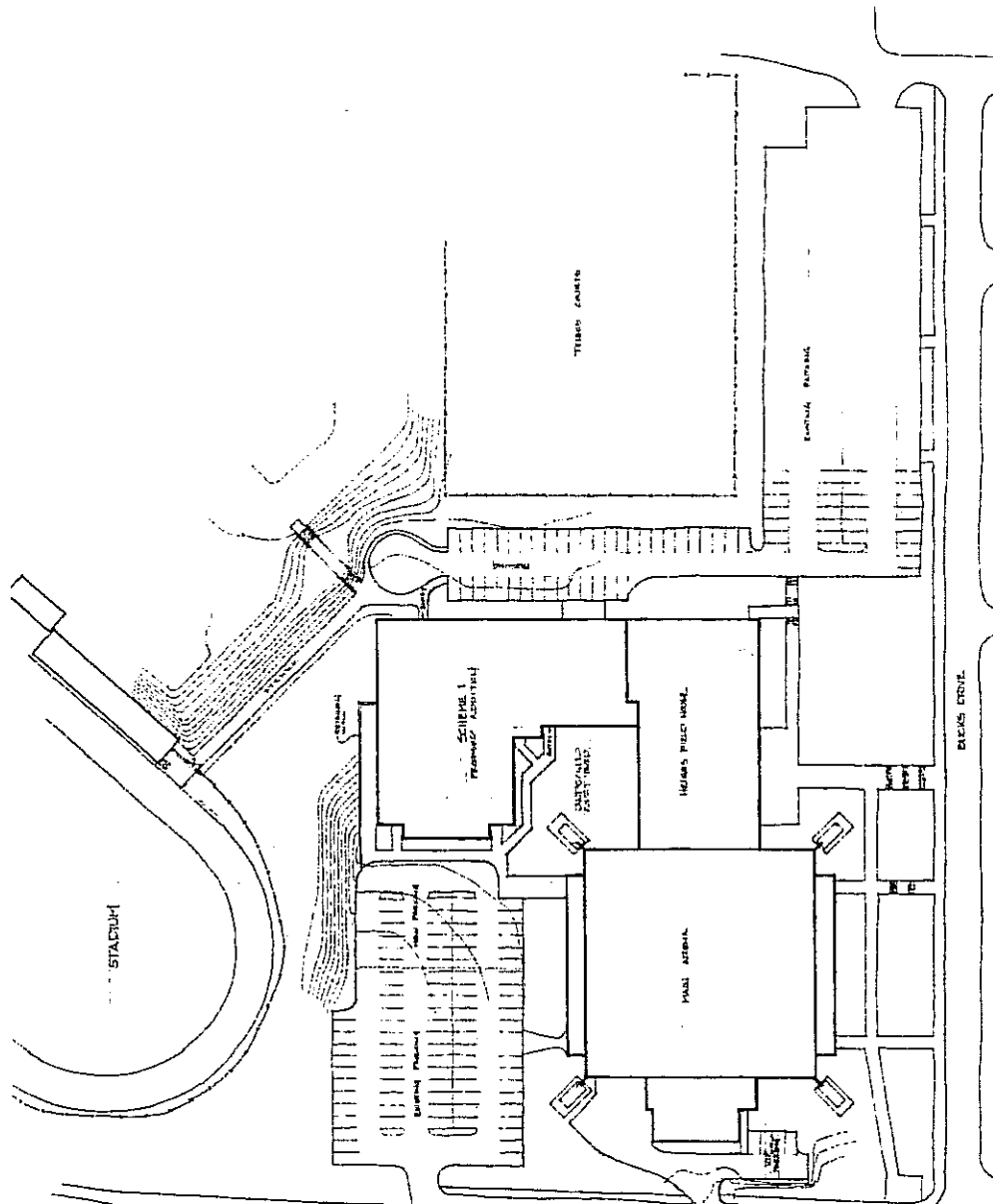
Under normal construction practices we estimated that the construction of the addition will take 12 to 16 months, followed by 8 to 12 months for alterations to the existing building.

**SHIPPENSBURG UNIVERSITY**  
**SU-711 HEIGES FIELD HOUSE ADDITION STUDY**

**APPENDIX L**

**DRAWINGS**

**Scheme 1**  
**Scheme 2**  
**Scheme 3**



**Shippensburg University**

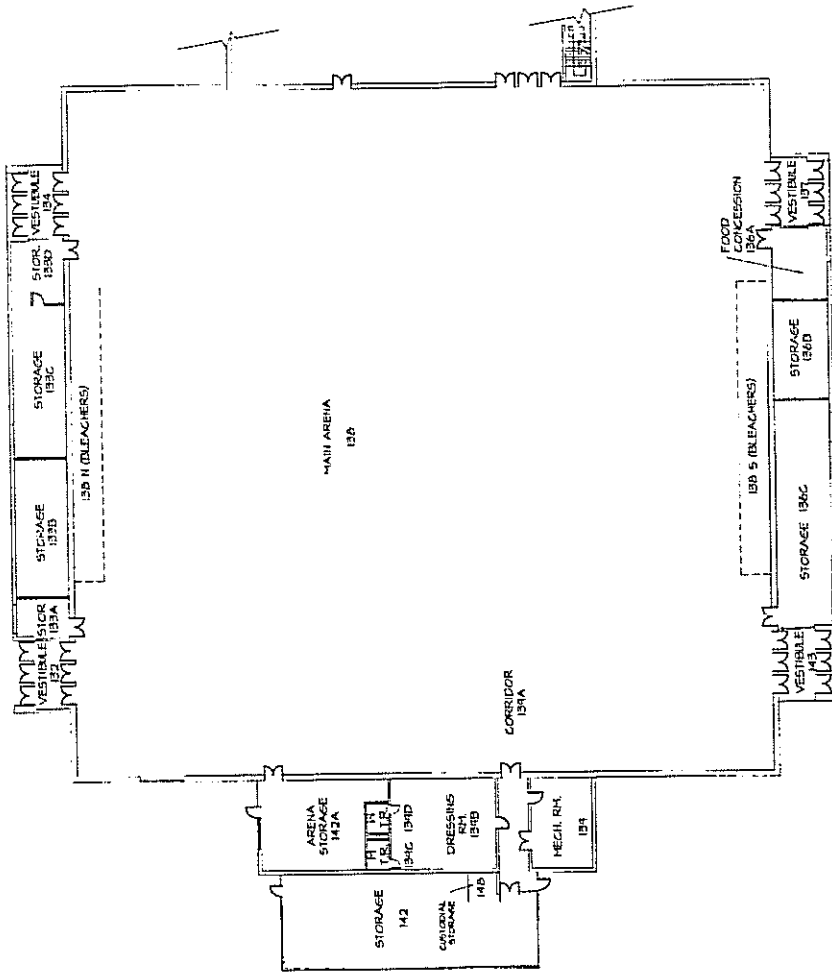
**SCHEME 1  
CONCEPTUAL SITE PLAN**

8/2/11  
**HEIGES FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**

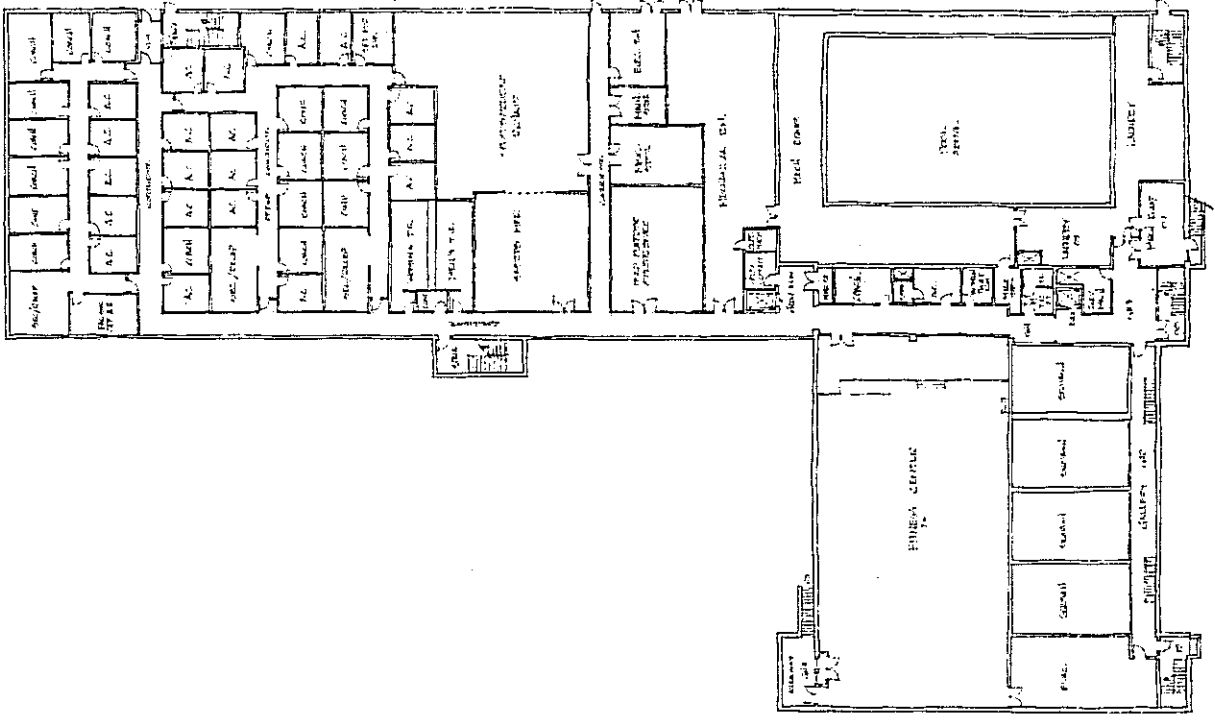
Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
ENTECH PROJECT NO. 2184.02  
DATE: 8/4/00



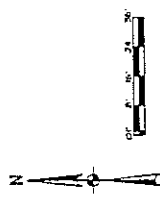
**SCHEME 1**  
**FIRST FLOOR LEVEL ARENA (WEST)**  
 11/2/71  
**HEIGES FIELD HOUSE ADDITION STUDY**  
 SHIPPENSBURG UNIVERSITY  
 CONTRACT 66016 WORK ORDER #7-1  
 Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
 ENTECH PROJECT NO. 2184.02  
 DATE: 8/4/00







**SCHEME 1**  
**GROUND FLOOR LEVEL (EAST)**  
 5/27/71  
**HEIGES FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**  
 CONTRACT 60216 WORK ORDER #771  
 Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
 ENTENCH PROJECT NO. 2184.02  
 DATE: 8/4/00



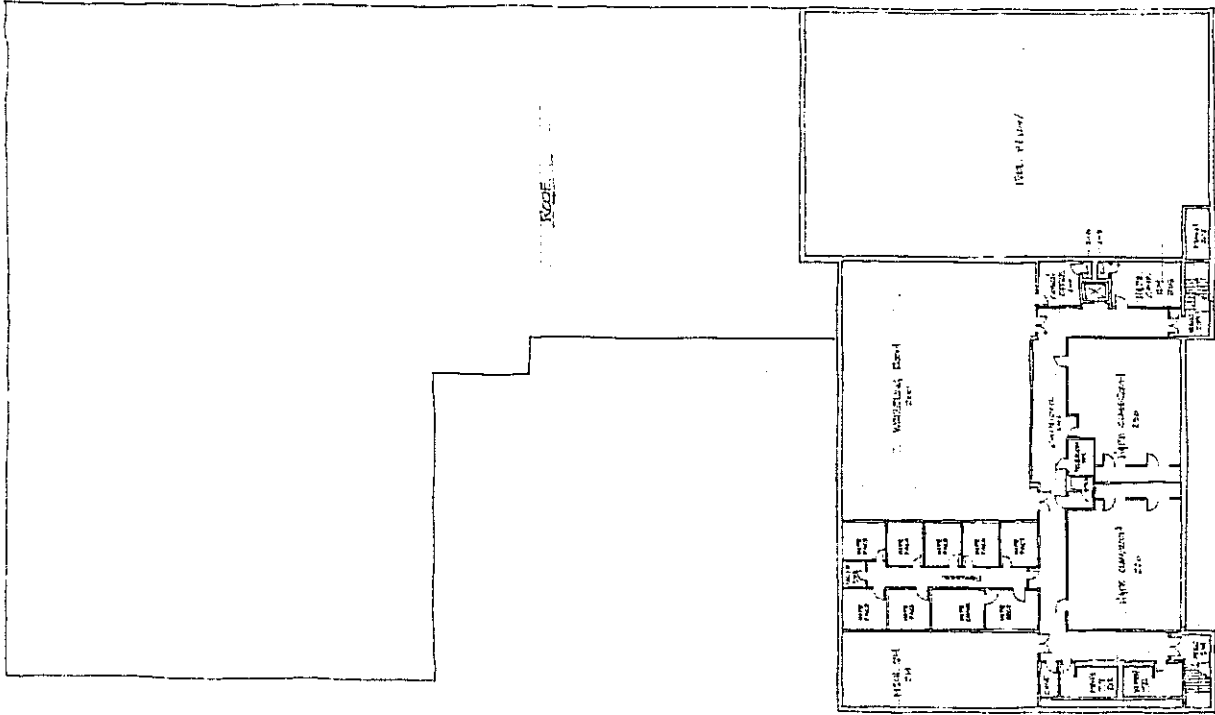


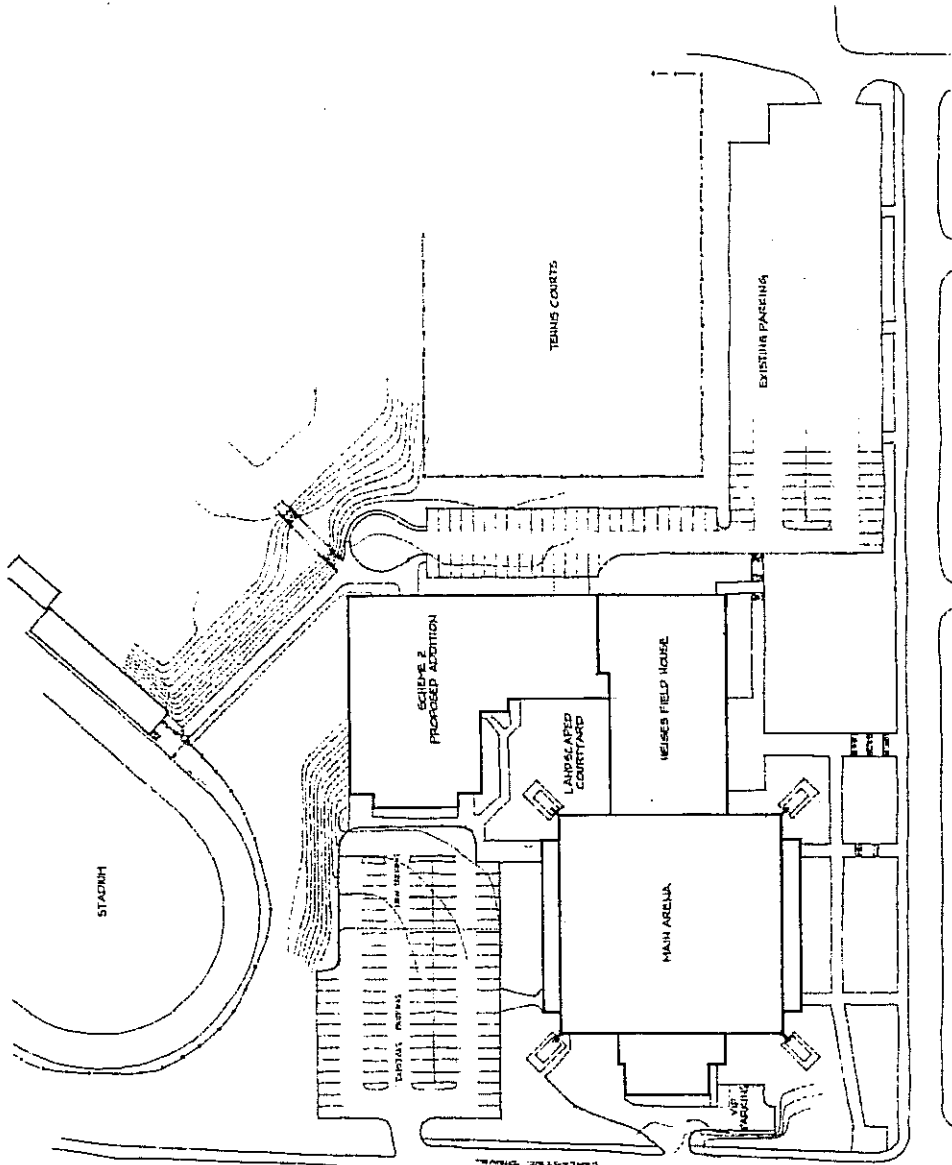


Shippensburg University

**SCHEME 1**  
**SECOND FLOOR LEVEL (EAST)**  
**HEIGES FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**

Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
ENTECH PROJECT NO. 21R4.02  
DATE: 8/4/80

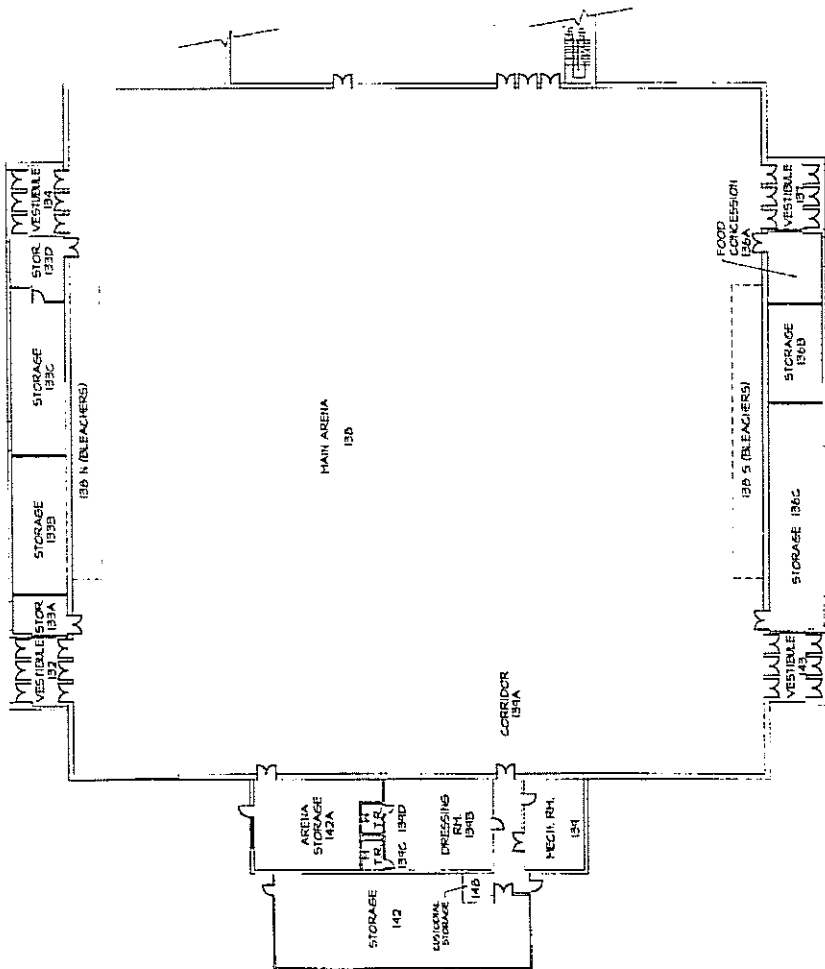




**SCHEME 2**  
**CONCEPTUAL SITE PLAN**  
 SHEET 11  
**HEIGES FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**  
 Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
**ENTECH PROJECT NO. 2184.02**  
**DATE: 8/4/00**



**SCHEME 2**  
**FIRST FLOOR LEVEL ARENA (WEST)**  
 SU.311  
**HEIGES FIELD HOUSE ADDITION STUDY**  
 SHIPPENSBURG UNIVERSITY  
 CONTRACT #46214, WORK ORDER #77-1  
 Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
 ENTECH PROJECT NO. 2184.02  
 DATE: 8/4/00



SCALE: 1/8" = 1'-0"

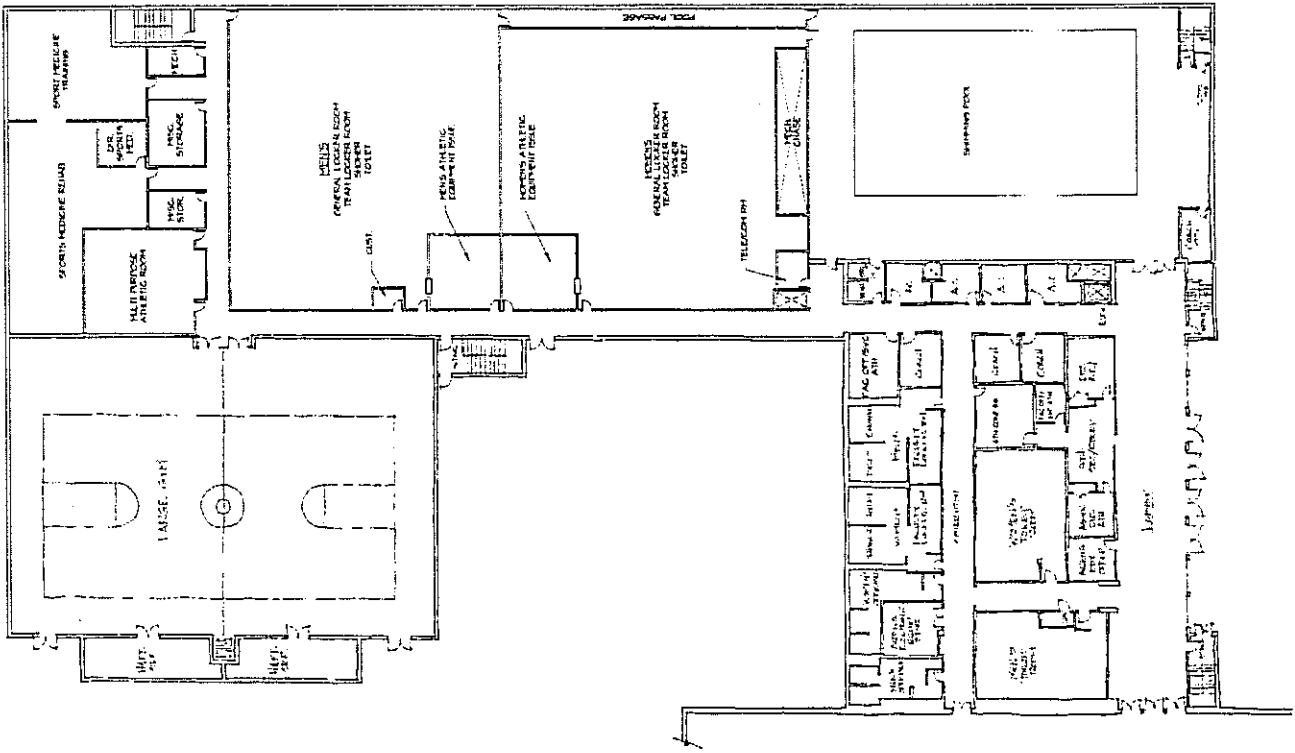


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**SCHEME 2**  
**FIRST FLOOR LEVEL (EAST)**

SU-211  
**HIGGINS FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**

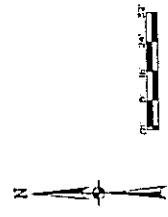
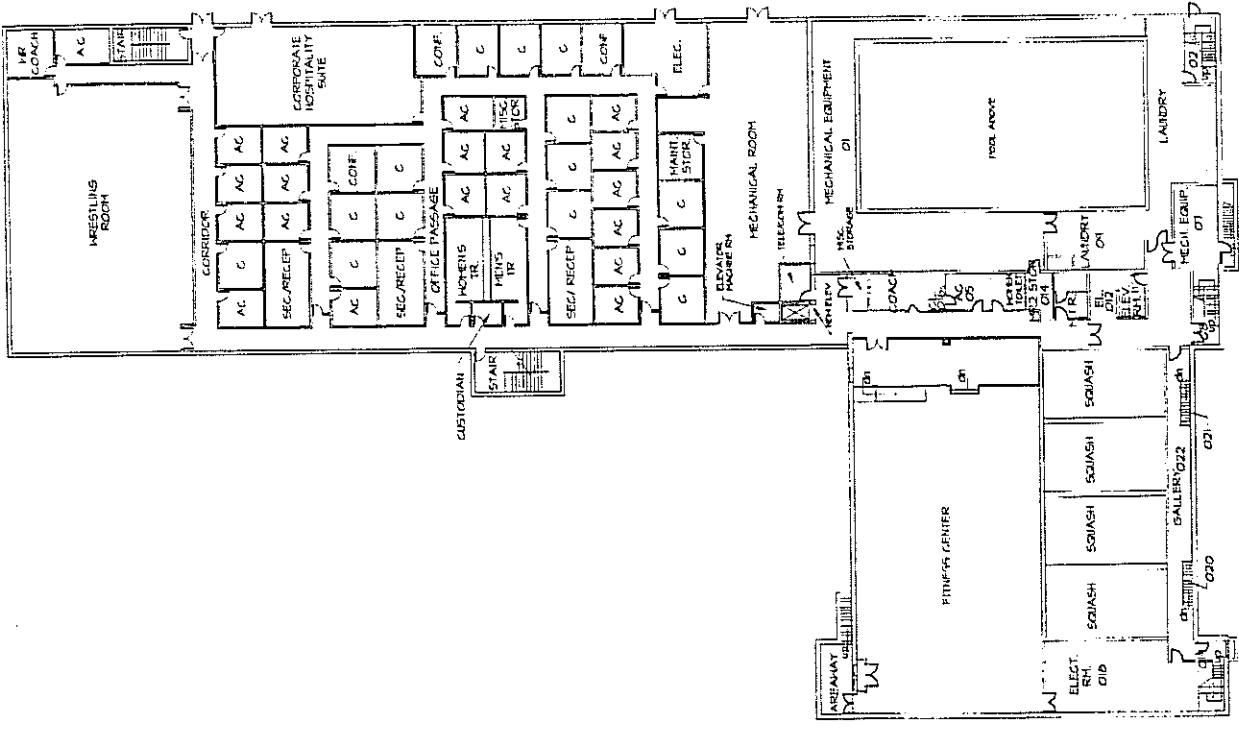
CONTRACT NO. 16 WORK ORDER NO. 1  
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**Entech Architectural Services, Inc.**  
ENTECH PROJECT NO. 2184.02  
DATE: 8/4/00



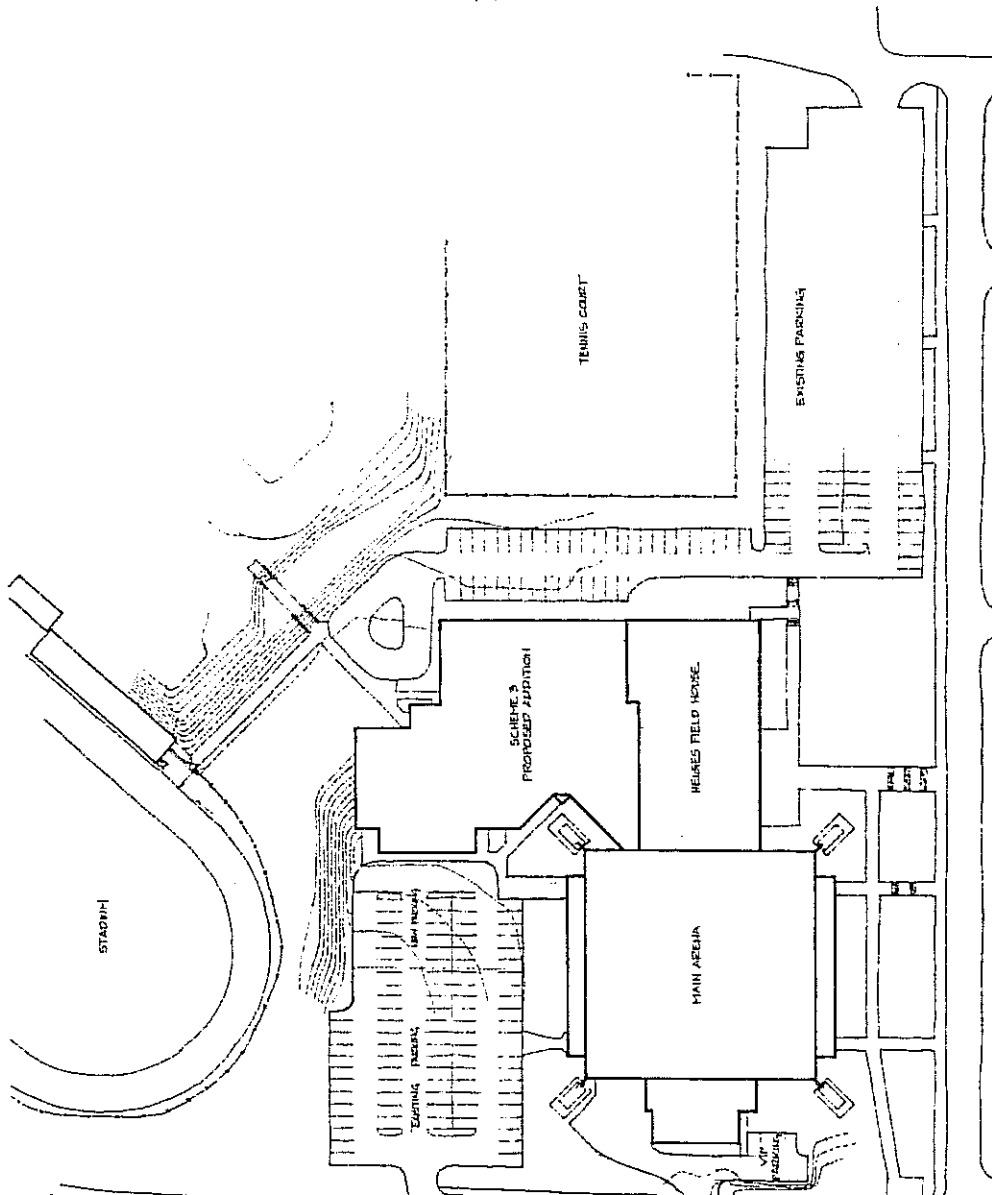


Shippensburg University

SCHEME 2  
GROUND FLOOR LEVEL (EAST)  
502711  
HEIGES FIELD HOUSE ADDITION STUDY  
SHIPPENSBURG UNIVERSITY  
CONTRACT 60216 WORK ORDER #713  
Prepared By:  
Entech Engineering, Inc.  
Entech Architectural Services, Inc.  
ENTECH PROJECT NO. 2184.02  
DATE: 8/4/00







Shippensburg University

**SCHEME 3**

CONCEPTUAL SITE PLAN

5/3/71

**HEIGES FIELD HOUSE ADDITION STUDY**

SHIPPENSBURG UNIVERSITY

UNIVERSITY PARK, PENNSYLVANIA

Prepared By:

**Entech Engineering, Inc.**

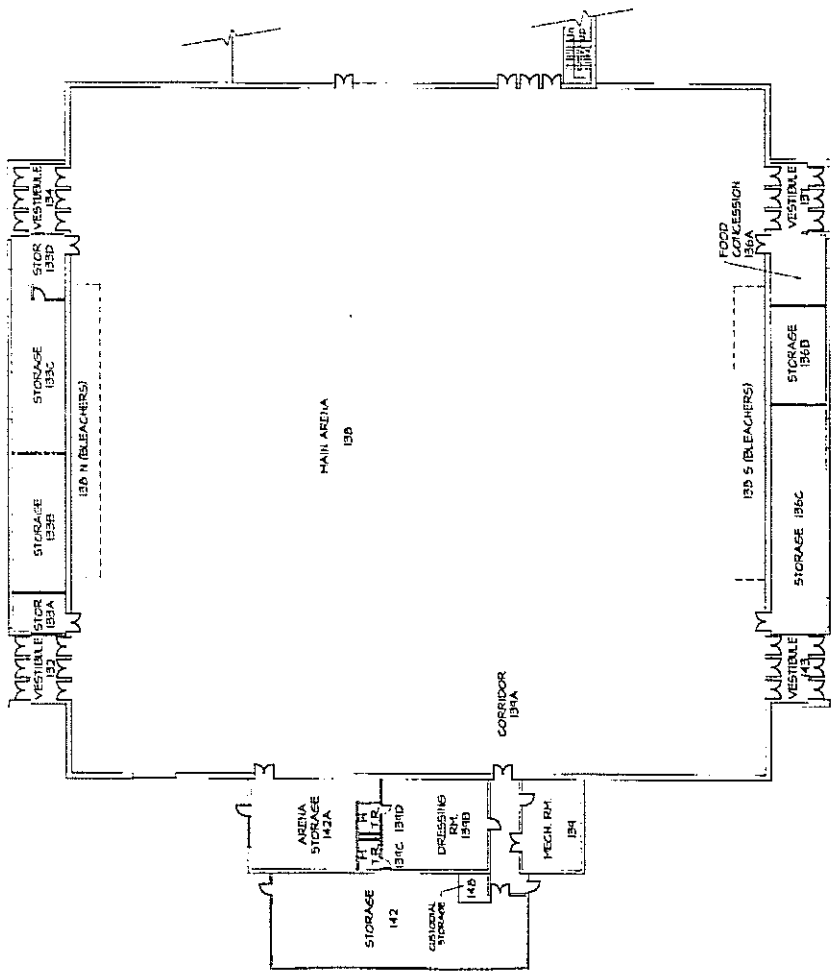
**Entech Architectural Services, Inc.**

ENTECH PROJECT NO. 2184.02

DATE: 8/4/00



**SCHEME 3**  
**FIRST FLOOR LEVEL ARENA (WEST)**  
 50-711  
**HEIGES FIELD HOUSE ADDITION STUDY**  
**SHIPPENSBURG UNIVERSITY**  
 CONTRACT AREA WORK ORDER #7-1  
 Prepared by:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
 ENTECH PROJECT NO. 2164.02  
 DATE: 8/4/00





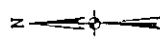
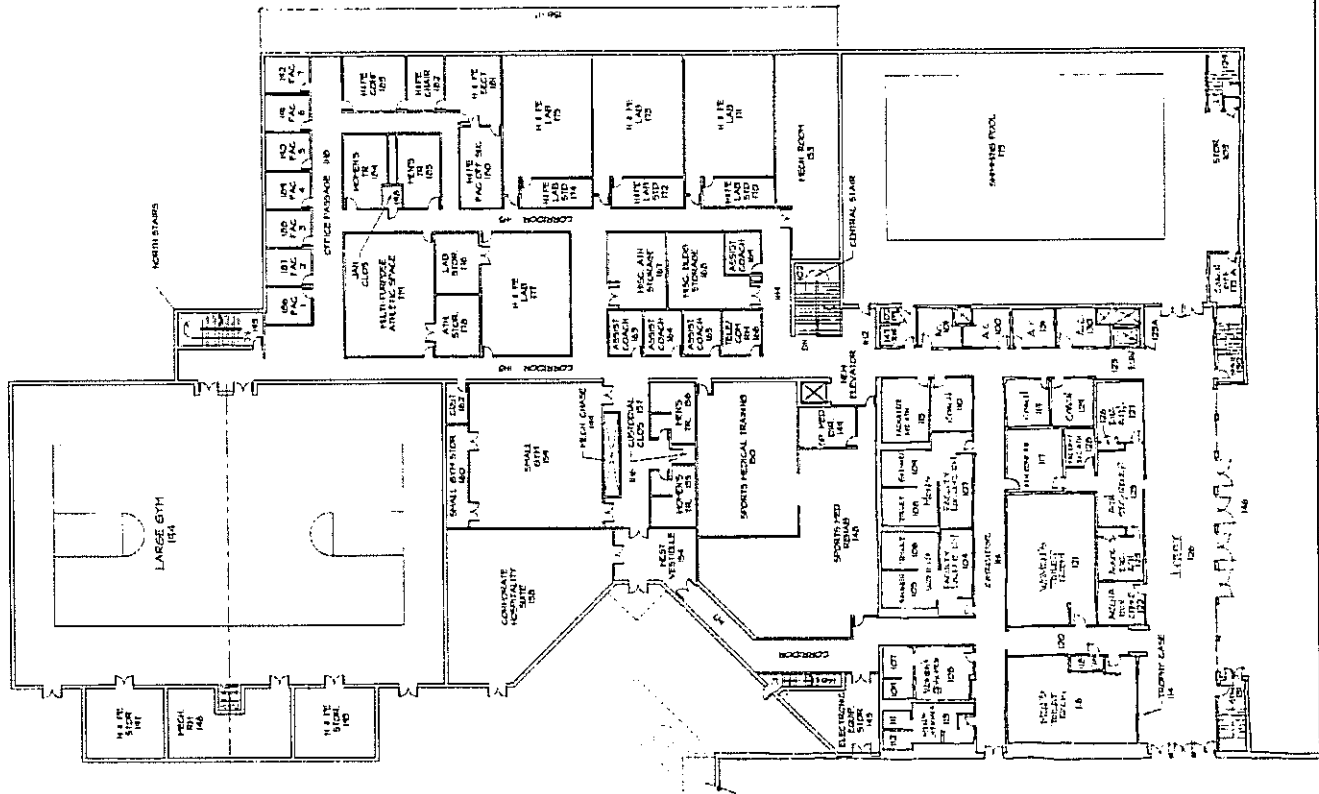


Shippensburg University

SCHEME 3  
FIRST FLOOR LEVEL (EAST)

SHIPPENSBURG UNIVERSITY  
HICKGIS FIELD HOUSE ADDITION STUDY  
CONTRACT 04216 WORK ORDER 07.1

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Entech Engineering, Inc.  
Entech Architectural Services, Inc.  
ENTECH PROJECT NO. 2184.02  
DATE: 8/4/00





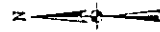
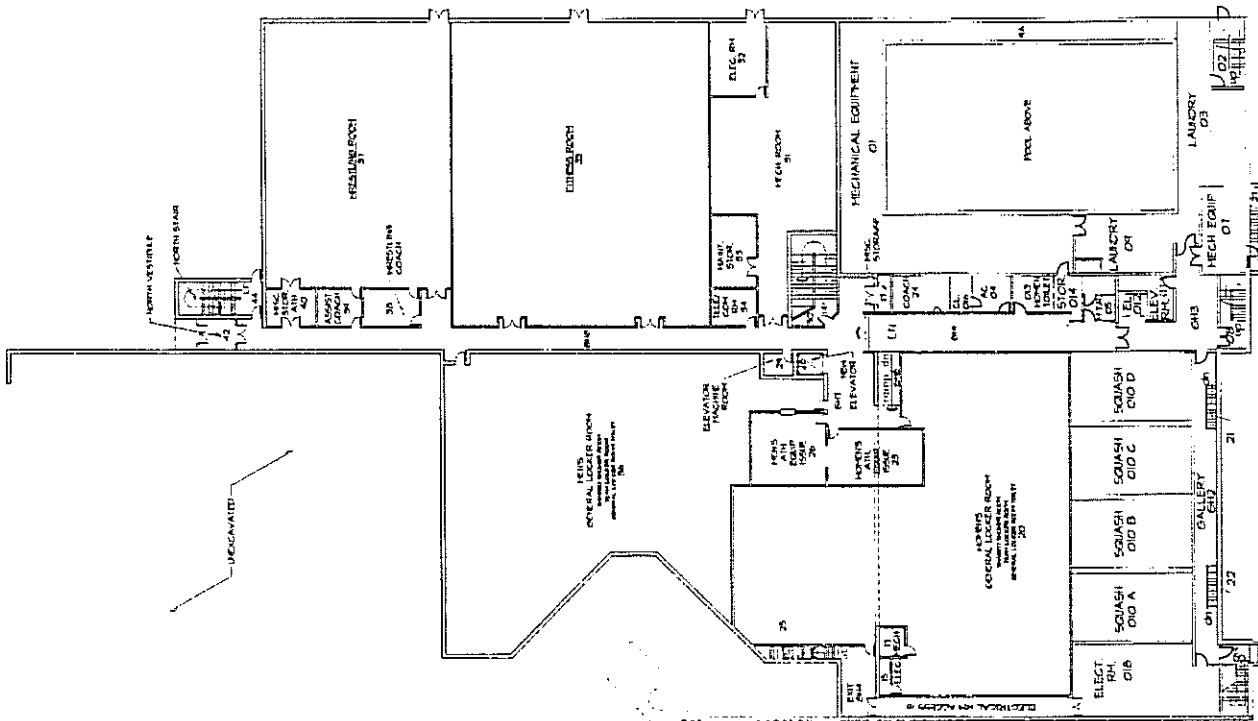
**Shippensburg University**

**SCHEME 3**

**GROUND FLOOR LEVEL (EAST)**  
SU-31  
**HEIGES FIELD HOUSE ADDITION STUDY**

SHIPPENSBURG UNIVERSITY  
CONTRACT #0316 WORK ORDER #01

Prepared By:  
**Entech Engineering, Inc.**  
**Entech Architectural Services, Inc.**  
ENTECH PROJECT NO. 2184.02  
DATE: 8/4/00





**APPENDIX M**

**DETAIL SPACE PROGRAM**

**Scheme 1**

**Scheme 2**

**Scheme 3**

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM**

| Bldg NO                              | FL | Current Floor Area | Room NO | Use Code | USE         | FUNCTION     | Program Area In |          | Program Area In Addition | Proposed Program Description         | Existing Area Requiring Renovation |
|--------------------------------------|----|--------------------|---------|----------|-------------|--------------|-----------------|----------|--------------------------|--------------------------------------|------------------------------------|
|                                      |    |                    |         |          |             |              | Existing Bldg.  | Room No. |                          |                                      |                                    |
| <b>NON ASSIGNABLE SQUARE FOOTAGE</b> |    |                    |         |          |             |              |                 |          |                          |                                      |                                    |
| 215                                  | 1  | 278                | 120     | 71       | Corr        | Betw 128&108 | 278             | 120      |                          | Corridor                             | 278                                |
| 215                                  | 1  | 124                | 123     | 71       | Corr        | Betw 128&127 | 576             | 123      |                          | Lengthened N/S corridor              | 576                                |
| 215                                  | 1  | 2,270              | 128     | 71       | Corr        | Main Lobby   | 2,270           | 128      |                          | Lobby                                | 2,270                              |
| 215                                  | 1  | 244                | 139A    | 71       | Corr        | Betw 138&142 | 244             | 139A     |                          | Corridor                             | 244                                |
| 215                                  | 1  | 637                | 146     | 71       | Corr        | Portico      | 637             | 146      |                          | Portico                              | 637                                |
| 215                                  | 1  | 78                 | 147     | 71       | Corr        | Betw 144&102 | 0               | 147      |                          | Passage Eliminated                   | 0                                  |
| 215                                  | 1  | 357                | 1H1     | 71       | Corr        | Betw 138&127 | 894             | 1H1      |                          | Lengthened E/W corridor              | 894                                |
| 215                                  | 2  | 1,140              | 2H1     | 71       | Corr        | 2d flr hall  | 1,140           | 2H1      |                          | 2nd Floor Corridor                   | 1,140                              |
| 215                                  | G  | 96                 | GH1     | 71       | Corr        | Betw 20&GH3  | 420             | GH1      |                          | Lengthened N/S corridor (6'-8" wide) | 420                                |
| 215                                  | G  | 451                | GH2     | 71       | Corr        | Betw 18&GH3  | 451             | GH2      |                          | Corridor                             | 451                                |
| 215                                  | G  | 489                | GH3     | 71       | Corr        | Betw 3&GH2   | 489             | GH3      |                          | Shortened Corridor                   | 489                                |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 1,089                    | N/S Corridor 6'x181.5'+              |                                    |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 408                      | E/W Corridor 6'x68'                  |                                    |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 465                      | N. Office suite corridor 5'x93'      |                                    |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 1,035                    | Central off. suite corridor 5'x207'  |                                    |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 410                      | Rehab Rm. Corridor E/W 5'x82'        |                                    |
| 215                                  | 1  |                    |         | 71       | Corr        |              |                 | 1H       | 415                      | Pool Passage                         |                                    |
| 215                                  | 1  |                    |         | 71       | Corr        |              |                 | 1H       | 1,089                    | N/S corridor 6'x181.5' +             |                                    |
| 215                                  | 1  |                    |         | 71       | Corr        |              |                 | 1H       | 500                      | E/W corridor 6'x83'-3"               |                                    |
| 215                                  | 2  |                    |         | 71       | Corr        |              | 240             | 2H       |                          | 2nd Fl. Fac. Passage                 | 240                                |
| 215                                  | G  |                    |         | 71       | Corr        |              |                 | GH       | 117                      | New Elev. Lobby at Ground Floor      |                                    |
| 215                                  | 1  |                    |         | 71       | Corr        |              |                 | 1H       | 117                      | New Elev. Lobby at First Floor       |                                    |
|                                      |    | 6,164              |         |          | Subtotal 71 |              | 7,639           |          | 5,528                    | Subtotal 71                          | 7,639                              |
| 215                                  | G  | 167                | 2       | 72       | Stair       | SE Stair     | 167             | 2        |                          | SE Stair                             | 167                                |
| 215                                  | G  | 167                | 8       | 72       | Stair       | S Stair      | 167             | 8        |                          | S Stair                              | 167                                |
| 215                                  | G  | 167                | 19      | 72       | Stair       | SW Stair     | 167             | 19       |                          | SW Stair                             | 167                                |
| 215                                  | 1  | 122                | 129     | 72       | Stair       | SE Stair     | 122             | 129      |                          | SE Stair                             | 122                                |
| 215                                  | 1  | 167                | 130     | 72       | Stair       | S Stair      | 167             | 130      |                          | S Stair                              | 167                                |
| 215                                  | 1  | 167                | 131     | 72       | Stair       | SW Stair     | 167             | 131      |                          | SW Stair                             | 167                                |
| 215                                  | 2  | 167                | 203     | 72       | Stair       | S Stair      | 167             | 203      |                          | S Stair                              | 167                                |
| 215                                  | 2  | 167                | 204     | 72       | Stair       | SW Stair     | 167             | 204      |                          | SW Stair                             | 167                                |
| 215                                  | G  | 34                 | 21      | 72       | Stair       | Squash Stair | 34              | 21       |                          | Squash Stair                         | 34                                 |
| 215                                  | G  | 34                 | 22      | 72       | Stair       | Squash Stair | 34              | 22       |                          | Squash Stair                         | 34                                 |
| 215                                  | G  | 45                 | 25      | 72       | Stair       | To GH4       | 45              | 25       |                          | To GH4                               | 45                                 |
| 215                                  | G  | 81                 | 26      | 72       | Stair       | NW 175       | 0               | 26       |                          | Eliminated                           | 0                                  |
| 215                                  | G  | 72                 | 27      | 72       | Stair       | To 7         | 72              | 27       |                          | To 7                                 | 72                                 |
| 215                                  | G  |                    |         | 72       | Stair       |              |                 | GS1      | 216                      | East Stair Ground Floor              |                                    |
| 215                                  | 1  |                    |         | 72       | Stair       |              |                 | 1S1      | 216                      | East Stair First Floor               |                                    |
| 215                                  | G  |                    |         | 72       | Stair       |              |                 | GS2      | 234                      | West Stair, Ground Floor             |                                    |
| 215                                  | 1  |                    |         | 72       | Stair       |              |                 | 1S2      | 234                      | West Stair, First Floor              |                                    |
|                                      |    | 1,557              |         |          | Subtotal 72 |              | 1,476           |          | 900                      | Subtotal 72                          | 1,476                              |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code                | USE       | FUNCTION    | Program Area in Existing Bldg | Room No. | Program Area in Addition | Proposed Program Description  | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|-------------------------|-----------|-------------|-------------------------------|----------|--------------------------|-------------------------------|------------------------------------|
| 215     | 2  | 22                 | 207     | 73                      | Elevator  | 2d floor    | 22                            |          |                          | Existing 2d Floor             | 22                                 |
| 215     | G  | 22                 | 12      | 73                      | Elevator  | Grnd Floor  | 22                            |          |                          | Existing Grnd Floor           | 22                                 |
| 215     | 1  | 22                 | 123A    | 73                      | Elevator  | First floor | 22                            |          |                          | Existing First Floor          | 22                                 |
| 215     | G  |                    |         | 73                      | Elevator  |             |                               |          | 70                       | New Elevator Ground Floor     |                                    |
| 215     | 1  |                    |         | 73                      | Elevator  |             |                               |          | 70                       | New Elevator First Floor      |                                    |
|         |    | 66                 |         | Subtotal 73             |           |             | 66                            |          | 140                      | Subtotal 73                   | 66                                 |
| 215     | 1  | 174                | 132     | 74                      | Vestibule | NW          | 174                           |          |                          | NW Vestibule                  | 174                                |
| 215     | 1  | 174                | 134     | 74                      | Vestibule | NE          | 174                           |          |                          | NE Vestibule                  | 174                                |
| 215     | 1  | 174                | 137     | 74                      | Vestibule | SE          | 174                           |          |                          | SE Vestibule                  | 174                                |
| 215     | 1  | 174                | 143     | 74                      | Vestibule | SW          | 174                           |          |                          | SW Vestibule                  | 174                                |
| 215     | G  | 696                |         | Subtotal 74             |           |             | 696                           |          | 78                       | New Vestibule at Ground Floor | 696                                |
|         |    | 8,483              |         | Current Heiges 7W TOTAL |           |             | 9,877                         |          | 6,646                    | Renovated / Addition 7W       | 9,877                              |
|         |    |                    |         |                         |           |             |                               | 16,523   |                          | Proposed 7W Combined          |                                    |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code | USE                     | FUNCTION        | Program Area in Existing Bldg | Room No. | Program Area in Addition | Proposed Program Description        | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|----------|-------------------------|-----------------|-------------------------------|----------|--------------------------|-------------------------------------|------------------------------------|
| 215     | 1  | 173                | 104     | 81       | Toilet M                | Locker Toilet   | 0                             |          |                          |                                     |                                    |
| 215     | 1  | 44                 | 111     | 81       | Toilet M                | Coach Toilet    | 0                             |          |                          |                                     |                                    |
| 215     | 2  | 315                | 212     | 81       | Toilet M                | Men             | 128                           |          |                          | Men's Toilet Rm. @ 2nd Fl.          | 128                                |
| 215     | G  | 97                 | 23      | 81       | Toilet M                | Fitness Toilet  | 97                            |          |                          | Men's Access Toilet Rm. At Fitness  | 97                                 |
| 215     |    |                    |         | 81       | Toilet M                |                 |                               |          | 700                      | General Men's Toilet - Locker Rooms | 160                                |
| 215     |    |                    |         | 81       | Toilet M                |                 |                               |          |                          | Men's Faculty Locker rm Toilet      | 690                                |
| 215     |    |                    |         | 81       | Toilet M                |                 |                               |          |                          | Men's Arena Restrooms               | 50                                 |
| 215     |    |                    |         | 81       | Toilet M                |                 |                               |          | 275                      | Men's Toilet Room @ Ground Fl.      | 45                                 |
| 215     |    |                    |         | 81       | Toilet M                |                 |                               |          |                          | Men's Official Locker rm Toilet     | 1,170                              |
|         |    | 629                |         |          | Subtotal 81             |                 | 1,170                         |          | 975                      | Men's Toilet Rm. @ Arena Dress Rm.  | 1,170                              |
| 215     | 1  | 42                 | 117     | 82       | Toilet F                | Locker Toilet   | 0                             |          |                          |                                     |                                    |
| 215     | 1  | 200                | 119     | 82       | Toilet F                | Women's         | 0                             |          |                          |                                     |                                    |
| 215     | G  | 103                | 4       | 82       | Toilet F                | F Toilet        | 0                             |          |                          |                                     |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               |          |                          |                                     |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 820                           |          | 700                      | General Women's Toilet-Locker Room  | 820                                |
| 215     | G  |                    |         | 82       | Toilet F                |                 |                               |          |                          | Women's Arena Restrm                |                                    |
| 215     | 2  |                    |         | 82       | Toilet F                |                 | 128                           |          | 275                      | Women's Toilet Rm @ 2nd Floor       | 128                                |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 50                            |          |                          | Women's Official Locker rm Toilet   | 50                                 |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 160                           |          |                          | Women's Faculty Locker rm Toilet    | 160                                |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 45                            |          |                          | Women's T. Rm. @ Arena Dress Rm.    | 45                                 |
| 215     | G  |                    |         | 82       | Toilet F                |                 | 80                            |          |                          | Women's Access T. Rm. At Fitness    | 80                                 |
|         |    | 345                |         |          | Subtotal 82             |                 | 1,283                         |          | 975                      | Subtotal 82                         | 1,283                              |
| 215     | 1  | 50                 | 109     | 83       | Toilet Unit             | Spts Med Toilet | 0                             |          |                          | 0 (Eliminated)                      | 0                                  |
|         |    | 50                 |         |          | Subtotal 83             |                 | 0                             |          | 0                        | Subtotal 83                         | 0                                  |
| 215     | 1  | 28                 | 118     | 84       | Cust                    | Cust            | 28                            | 118      |                          | Custodial Closet                    | 28                                 |
| 215     | 2  | 46                 | 213     | 84       | Cust                    | Cust            | 46                            | 213      |                          | Existing Custodial Closet 2nd Fl    |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               |          | 48                       | New Custodial Closet @ 1st Fl       |                                    |
| 215     | G  |                    |         | 84       | Cust                    |                 |                               |          | 44                       | New Custodial Closet @ Ground Fl    |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               |          | 92                       | Custodial Storage (West Arena)      | 60                                 |
|         |    | 74                 |         |          | Subtotal 84             |                 | 134                           | 148      |                          | Subtotal 84                         | 88                                 |
| 215     | 1  | 1,738              | 142     | 85       | Maint sto               | Sealing Storage | 1,738                         | 142      |                          | Sealing Storage                     |                                    |
| 215     | 1  | 60                 | 148     | 85       | Maint sto               | Electronics     | 0                             |          |                          | To Become Custodial Storage         |                                    |
| 215     | G  | 107                | 14      | 85       | Maint sto               | MR2 Sto         | 107                           | 14       |                          | MR2 Sto                             |                                    |
| 215     | 1  | 18                 | 102     | 85       | Maint Sto               | Sto Pool Vac    | 18                            | 102      |                          | Sto Pool Vac                        |                                    |
| 215     | G  |                    |         | 85       | Maint Sto               |                 |                               |          | 150                      | New Maintenance Storage             |                                    |
|         |    | 1,923              |         |          | Subtotal 85             |                 | 1,863                         |          | 150                      | Subtotal 85                         | 0                                  |
| 215     |    | 3,021              |         |          | Current Heiges 8X TOTAL |                 | 4,450                         | 6,642    | 2,192                    | Renovated / Addition 8X             | 2,541                              |
|         |    |                    |         |          |                         |                 |                               |          |                          | Proposed 8X Combined                |                                    |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM**

| Bldg NO | FL  | Current Floor Area | Room NO | Use Code | USE                     | FUNCTION         | Program Area in Existing Bldg. | Room No. | Program Area in Addition | Proposed Program Description                               | Existg Area Requiring Renovation |
|---------|-----|--------------------|---------|----------|-------------------------|------------------|--------------------------------|----------|--------------------------|--|----------------------------------|
| 215     | G   | 725                | 18      | 91       | Electrical              | Elect            | 725                            |          |                          | Elect  |                                  |
| 215     | G   |                    |         | 91       | Electrical              |                  |                                |          | 300                      | Electrical Rm in addition                                  |                                  |
| 215     | G   |                    |         | 91       | Electrical              |                  |                                |          | 80                       | Tele/Com Rm. Grd Fl.                                       |                                  |
| 215     | G   |                    |         | 91       | Electrical              |                  |                                |          | 80                       | Tele/Com Rm. 1st Fl.                                       |                                  |
| 215     | G   |                    |         | 91       | Electrical              |                  |                                |          | 70                       | Tele/Com Rm. 2nd Fl.                                       | 70                               |
| 215     | G   | 725                |         |          | Subtotal 91             |                  | 795                            |          | 460                      | Subtotal 91  | 70                               |
| 215     | 1   | 169                | 133A    | 92       | Mach                    | North Sto        | 169                            |          |                          | North Sto  |                                  |
| 215     | 1   | 512                | 133B    | 92       | Mach                    | North Sto        | 512                            |          |                          | North Sto  |                                  |
| 215     | 1   | 522                | 133C    | 92       | Mach                    | North Sto        | 522                            |          |                          | North Sto  |                                  |
| 215     | 1   | 183                | 133D    | 92       | Mach                    | North Sto        | 183                            |          |                          | North Sto  |                                  |
| 215     | 1   | 272                | 136A    | 92       | Mach                    | Cust Sto         | 0                              |          |                          | To Become Food Concession                                  |                                  |
| 215     | 1   | 426                | 136B    | 92       | Mach                    | S Sto            | 426                            |          |                          | S Sto  |                                  |
| 215     | 1   | 715                | 136C    | 92       | Mach                    | S Sto            | 715                            |          |                          | S Sto  |                                  |
| 215     | 1   | 394                | 139     | 92       | Mach                    | W Mech Rm        | 394                            |          |                          | W Mech Rm  |                                  |
| 215     | 2   | 153                | 202     | 92       | Mach                    | Above 175A       | 153                            |          |                          | Above 175A   |                                  |
| 215     | 2   | 22                 | 211     | 92       | Mach                    | Mechanical       | 60                             |          |                          | Mech. Access to Roof from Corr.                            | 60                               |
| 215     | 2   | 1,061              | 214     | 92       | Mach                    | Mech             | 1,061                          |          |                          | Mech   |                                  |
| 215     | G   | 1,567              | 1       | 92       | Mach                    | Mech             | 1,567                          |          |                          | Mech   |                                  |
| 215     | G   | 192                | 7       | 92       | Mach                    | Mech             | 192                            |          |                          | Mech   |                                  |
| 215     | G   | 413                | 09A     | 92       | Mach                    | Behind Pool      | 413                            |          |                          | Behind Pool  |                                  |
| 215     | G   | 18                 | 15      | 92       | Mach                    | space in Fitness | 18                             |          |                          | Space in Fitness   |                                  |
| 215     | G   | 133                | GH4     | 92       | Mach                    | NW 20            | 133                            |          |                          | NW 20  |                                  |
| 215     | G   |                    |         | 92       | Mach                    |                  |                                |          | 1,610                    | Mechanical Rm in addition                                  | 60                               |
| 215     | 1   | 6,752              |         |          | Subtotal 92             |                  | 6,518                          |          | 360                      | Mech. Chase @ Locker Rm                                    | 11                               |
| 215     | G   | 119                | 11      | 93       | Elevator                | Elev Machine     | 119                            | 11       |                          | Elevator machine room                                      |                                  |
| 215     | G   |                    |         | 93       | Elevator                |                  |                                |          | 45                       | New Elevator Mach. Rm.                                     |                                  |
| 215     | G   | 119                |         |          | Subtotal 93             |                  | 119                            |          | 45                       | Subtotal 93  | 11                               |
| 215     | G   | 7,596              |         |          | Current Heiges 9Y TOTAL |                  | 7,432                          |          | 2,475                    | Renovated / Addition 9Y                                    | 141                              |
| 215     | All | 4,741              |         | ZZ       | Heiges Structural       |                  | 5,209                          |          | 3,821                    | Balance of Structure & walls<br>(as Calculated on Page 10) | 0                                |
| 215     | All | 4,741              |         |          |                         |                  | 5,209                          |          | 3,821                    | Proposed Structural Total                                  | 0                                |
| 215     |     | 19,100             |         |          | Current Heiges NON-ASF  |                  | 21,759                         |          | 11,313                   | Renovated / Add. NON-ASF                                   | 12,559                           |
| 215     |     |                    |         |          |                         |                  | 33,072                         |          |                          | Proposed Combined NON-ASF                                  |                                  |
| 215     |     |                    |         |          |                         |                  |                                |          |                          | Area of Existing Being Renovated                           | 12,559                           |



SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

| Bldg NO                          | FL | Current Floor Area | Room NO | USE                      | FUNCTION         | Program Area in Existing Bldg. | Room No. | Program Area in Addition | Proposed Program Description                   | Existing Area Requiring Renovation |
|----------------------------------|----|--------------------|---------|--------------------------|------------------|--------------------------------|----------|--------------------------|--|------------------------------------|
| <b>ASSIGNABLE SQUARE FOOTAGE</b> |    |                    |         |                          |                  |                                |          |                          |  |                                    |
| 215                              | 2  | 1,194              | 220     | Classrm                  | ROTC             | 1,044                          |          |                          | H&PE Classroom                                 | 1044                               |
| 215                              | 2  | 1,194              | 230     | Classrm                  | Phys Ed          | 998                            |          |                          | H&PE Classroom                                 | 998                                |
| 215                              | 2  |                    |         | Classrm                  |                  | 92                             |          |                          | Classroom Storage, Rm. 220                     | 92                                 |
| 215                              | 2  |                    |         | Classrm                  |                  | 92                             |          |                          | Classroom Storage, Rm 230                      | 92                                 |
| 215                              |    | 2,388              |         | Current Heiges 100 Total |                  | 2,226                          | 2,226    | 0                        | Renovated / Addition 100 Proposed Combined 100 | 2,226                              |
| 215                              | 1  |                    |         | Laboratory               |                  |                                |          | 600                      | H&PE Laboratory                                |                                    |
| 215                              | 1  |                    |         | Laboratory               |                  |                                |          | 150                      | Lab Storage                                    |                                    |
| 215                              |    | 0                  |         | Current Heiges 200 Total |                  | 0                              | 750      | 750                      | Renovated / Addition 200 Proposed Combined 200 | 0                                  |
| 215                              | 1  | 126                | 125     | Fac Off                  | Assoc Dir        |                                |          |                          |  |                                    |
| 215                              | 1  | 70                 | 165     | Fac Off                  | Asst Coach       |                                |          |                          |  |                                    |
| 215                              | 1  | 126                | 135     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 1  | 126                | 145     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 1  | 126                | 155     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 1  | 153                | 175A    | Fac Off                  | Swim Coach       | 153                            | 175A     |                          | Swim Coach                                     | 153                                |
| 215                              | 2  | 115                | 215     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 2  | 115                | 215A    | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 2  | 135                | 205     | Fac Off                  | Coach, Wrestling | 135                            | 205      |                          | Wrestling Coach                                | 135                                |
| 215                              | 2  | 248                | 210     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | G  | 104                | 20A     | Fac Off                  | Coach            |                                |          |                          |  |                                    |
| 215                              | 2  | 504                | 231A    | Fac Off                  | Asst Coaches     |                                |          |                          |  |                                    |
| 215                              | 1  |                    |         | Fac Off                  |                  | 450                            |          |                          | (3) Coaches Offices 1st Fl                     | 450                                |
| 215                              | 1  |                    |         | Fac Off                  |                  | 480                            |          |                          | (4) Assist. Coaches Offices 1st Fl             | 480                                |
| 215                              | G  |                    |         | Fac Off                  |                  | 120                            |          |                          | (1) Assist. Coaches Offices Gnd Fl             | 120                                |
| 215                              | G  |                    |         | Fac Off                  |                  |                                |          | 2,112                    | (14) Coaches Offices Ground Fl                 |                                    |
| 215                              | G  |                    |         | Fac Off                  |                  |                                |          | 2,400                    | (20) Assist. Coaches Offices Ground Fl         |                                    |
| 215                              | 2  |                    |         | Fac Off                  |                  | 150                            |          |                          | (1) Coach Office Gnd. Fl. @ Fitness            | 150                                |
| 215                              | 2  |                    |         | Fac Off                  |                  | 840                            |          |                          | (7) H&PE Faculty 2nd Fl                        | 840                                |
| 215                              | G  |                    |         | Fac Off                  |                  | 2,328                          |          | 4,512                    | Subtotal 305                                   | 2,328                              |
| 215                              | 2  | 14                 | 208     | Fac Off Svc              | Closet in 205    | 14                             | 208      |                          | Closet in Wrestling Coach's office             | 14                                 |
| 215                              | 2  | 14                 | 209     | Fac Off Svc              | Closet in 215A   | 14                             | 209      |                          | Closet in H&PE Conf. Rm.                       | 14                                 |
| 215                              | G  | 30                 | 16      | Fac Off Svc              | Fitness Closet   | 30                             | 16       |                          | Closet in Assist. Coach's Office               | 30                                 |
| 215                              | 1  |                    |         | Fac Off Svc              |                  | 158                            |          |                          | Fac/Off Svc Athletics-1st Fl                   | 158                                |
| 215                              | G  |                    |         | Fac Off Svc              |                  |                                |          | 192                      | Fac/Off Svc Athletics-Ground Fl                |                                    |
| 215                              | 1  |                    |         | Fac Off Svc              |                  | 225                            |          |                          | Fac/Off Svc H&PE - 1st Fl                      | 225                                |
| 215                              | 2  |                    |         | Fac Off Svc              |                  | 45                             |          |                          | Fac/Off Svc H&PE - 2nd Fl                      | 45                                 |
| 215                              |    | 58                 |         | 310 Total                |                  | 486                            |          | 192                      | Subtotal 310                                   | 486                                |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code | USE                      | FUNCTION       | Program Area in Existing Bldg. | Room No. | Program Area in Addition | Proposed Program Description   | Exist'g Area Requiring Renovation |
|---------|----|--------------------|---------|----------|--------------------------|----------------|--------------------------------|----------|--------------------------|--------------------------------|-----------------------------------|
| 215     | 1  | 229                | 105     | 315      | Admin                    | Dir Ath        | 0                              |          |                          |                                |                                   |
| 215     | 1  | 68                 | 107     | 315      | Admin                    | Sports Med Off | 0                              |          |                          |                                |                                   |
| 215     | 1  | 150                | 100A    | 315      | Admin                    | Sports Med Off | 0                              |          |                          |                                | 200                               |
| 215     | 1  |                    |         | 315      | Admin                    |                | 200                            |          |                          | Dir Ath                        | 150                               |
| 215     | 1  |                    |         | 315      | Admin                    |                | 150                            |          |                          | Assoc Dir                      |                                   |
| 215     | G  |                    |         | 315      | Admin                    |                | 150                            |          |                          | Dir Spt Med                    | 150                               |
| 215     | 2  |                    |         | 315      | Admin                    |                | 500                            |          |                          | H&PE Chair                     | 500                               |
|         |    | 447                |         | 315      | Total                    |                |                                |          |                          | 150 Subtotal 315               |                                   |
| 215     | 1  | 214                | 105A    | 325      | Clerical                 | Dir Secy       | 0                              |          |                          |                                |                                   |
| 215     | 1  | 41                 | 185     | 325      | Clerical                 | Mail Room      | 0                              |          |                          |                                |                                   |
| 215     | 2  | 619                | 231     | 325      | Clerical                 | Ft ball Secy   | 0                              |          |                          |                                |                                   |
| 215     | 1  |                    |         | 325      | Clerical                 |                | 275                            |          |                          | Sec/Reception Ath              | 275                               |
| 215     | 1  |                    |         | 325      | Clerical                 |                | 233                            |          |                          | Sec/Reception H&PE             | 233                               |
| 215     | G  |                    |         | 325      | Clerical                 |                |                                |          | 275                      | Sec/Reception FB               |                                   |
| 215     | G  |                    |         | 325      | Clerical                 |                |                                |          | 275                      | Sec/Reception SB               |                                   |
| 215     | G  |                    |         | 325      | Clerical                 |                |                                |          | 275                      | Sec/Reception BB               |                                   |
| 215     | G  |                    |         | 325      | Clerical                 |                |                                |          | 825                      | Subtotal 325                   | 508                               |
|         |    | 874                |         | 325      | Total                    |                | 508                            |          |                          |                                |                                   |
| 215     | G  | 105                | 13      | 335      | Grad Asst                | Fitness Ctr    | 0                              |          |                          | 0 Subtotal 335                 | 0                                 |
|         |    | 105                |         | 335      | Total                    |                | 0                              |          |                          |                                |                                   |
| 215     | 1  | 127                | 115     | 365      | Conf Rm                  | Conf Rm - DoA  | 0                              |          |                          |                                |                                   |
| 215     | 2  | 149                | 216     | 365      | Conf Rm                  | Conf Rm FB     | 0                              |          |                          |                                | 233                               |
| 215     | 1  |                    |         | 365      | Conf Rm                  |                | 233                            |          |                          | Conf Rm Ath                    |                                   |
| 215     | G  |                    |         | 365      | Conf Rm                  |                |                                |          | 150                      | Conf Rm FB                     |                                   |
| 215     | G  |                    |         | 365      | Conf Rm                  |                |                                |          | 150                      | Conf Rm SB                     |                                   |
| 215     | G  |                    |         | 365      | Conf Rm                  |                |                                |          | 150                      | Conf Rm BB                     |                                   |
| 215     | 2  |                    |         | 365      | Conf Rm                  |                | 233                            |          |                          | Conf Rm H&PE                   | 233                               |
|         |    | 276                |         | 365      | Total                    |                | 466                            |          |                          |                                | 466                               |
| 215     |    | 3,708              |         |          | Current Heiges 300 TOTAL |                | 4,288                          |          |                          | 6,129 Renovated / Addition 300 | 4,288                             |
|         |    |                    |         |          |                          |                | 10,417                         |          |                          | Proposed Combined 300          |                                   |
| 215     | 1  | 7,140              | 175     | 520A     | Ath-PE-Int               | Swim Pool      | 7,140                          |          |                          | Swim Pool                      | 7,140                             |
| 215     | 1  | 33,832             | 138     | 520A     | Ath-PE-Int               | Arena          | 33,832                         |          |                          | Arena                          | 3570                              |
| 215     | 2  | 3,570              | 200     | 520A     | Ath-PE-Int               | Wrestling      | 3,570                          |          |                          | Wrestling                      | 594                               |
| 215     | G  | 594                | 10A     | 520A     | Ath-PE-Int               | Squash         | 594                            |          |                          | Squash                         | 594                               |
| 215     | G  | 594                | 10B     | 520A     | Ath-PE-Int               | Squash         | 594                            |          |                          | Squash                         | 594                               |
| 215     | G  | 594                | 10C     | 520A     | Ath-PE-Int               | Squash         | 594                            |          |                          | Squash                         | 594                               |
| 215     | G  | 594                | 10D     | 520A     | Ath-PE-Int               | Squash         | 594                            |          |                          | Squash                         | 594                               |
| 215     | G  | 5,694              | 20      | 520A     | Ath-PE-Int               | Fitness Ctr    | 5,097                          |          |                          | Fitness Center                 | 5097                              |
| 215     | 1  |                    |         | 520A     | Ath-PE-Int               |                | 0                              |          | 9,193                    | Large Gym                      |                                   |
| 215     | 1  |                    |         | 520A     | Ath-PE-Int               |                | 0                              |          | 1,400                    | Small Gym                      |                                   |
| 215     | G  |                    |         | 520A     | Ath-PE-Int               |                | 0                              |          | 850                      | Multi-Purpose Athletic Space   |                                   |
|         |    | 52,612             |         | 520A     | Total                    |                | 52,015                         |          | 11,443                   | Subtotal 520A                  | 18,183                            |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code                 | USE          | FUNCTION         | Program Area in Existing Bldg. | Room No. | Program Area in Addition | Proposed Program Description        | Exist'g Area Requiring Renovation |
|---------|----|--------------------|---------|--------------------------|--------------|------------------|--------------------------------|----------|--------------------------|-------------------------------------|-----------------------------------|
| 215     | 1  | 756                | 138N    | 520B                     | Ath Seat-Int | N Bleach         | 756                            |          |                          | North Bleachers                     |                                   |
| 215     | 1  | 756                | 138S    | 520B                     | Ath Seat-Int | S Bleach         | 756                            |          |                          | South Bleachers                     |                                   |
|         |    | 1,512              |         | 520B Total               |              |                  | 1,512                          |          | 0                        | Subtotal 520B                       | 0                                 |
| 215     | 1  | 18                 | 103     | 520C                     | Ath Svc-Int  | Swim Sto         | 18                             |          |                          | Swim Sto                            |                                   |
| 215     | 1  | 859                | 106     | 520C                     | Ath Svc-Int  | M Varsity Locker |                                |          |                          |                                     |                                   |
| 215     | 1  | 44                 | 112     | 520C                     | Ath Svc-Int  | Coach Shower     |                                |          |                          |                                     |                                   |
| 215     | 1  | 171                | 113     | 520C                     | Ath Svc-Int  | Coach Locker     |                                |          |                          |                                     |                                   |
| 215     | 1  | 398                | 116     | 520C                     | Ath Svc-Int  | F Varsity Locker |                                |          |                          |                                     |                                   |
| 215     | 1  | 63                 | 116A    | 520C                     | Ath Svc-Int  | Sto              |                                |          |                          |                                     |                                   |
| 215     | 1  | 377                | 121     | 520C                     | Ath Svc-Int  | Equip Rm         |                                |          |                          |                                     |                                   |
| 215     | 1  | 1,881              | 127     | 520C                     | Ath Svc-Int  | M Locker         |                                |          |                          |                                     |                                   |
| 215     | 1  | 599                | 144     | 520C                     | Ath Svc-Int  | M Shower         |                                |          |                          |                                     |                                   |
| 215     | G  | 466                | 3       | 520C                     | Ath Svc-Int  | F Locker         |                                |          |                          |                                     |                                   |
| 215     | G  | 107                | 6       | 520C                     | Ath Svc-Int  | F Shower         |                                |          |                          |                                     |                                   |
| 215     | G  | 408                | 9       | 520C                     | Ath Svc-Int  | Laundry          | 1,200                          |          |                          | Laundry - enlarged                  | 1,200                             |
| 215     | 1  | 66                 | 114     | 520C                     | Ath Svc-Int  | Trophy case      | 66                             |          |                          | Trophy case                         |                                   |
| 215     | G  | 60                 | 24      | 520C                     | Ath Svc-Int  | Fitness Sto      |                                |          |                          |                                     |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 400                      | Equipment Issue Rms, Men            |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,200                    | Men's General Locker Room           |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,400                    | Men's Shared Shower Room            |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 2,000                    | Men's Team Locker Rooms (5)         |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Faculty Locker Rm Showers     | 140                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Faculty Locker Room           | 250                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Officials Locker Rm Showers   | 44                                |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Mens' Officials Locker Room         | 171                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 400                      | Equipment Issue Rms, Women          |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,200                    | Women's General Locker Room         |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,400                    | Women's Shared Shower Room          |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 2,000                    | Women's Team Locker Rooms (5)       |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Faculty Locker Rm Showers   | 140                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Faculty Locker Room         | 250                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Officials Locker Rm Showers | 40                                |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Womens' Officials Locker Room       | 180                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 100                      | Small Gym Storage                   |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 100                      | Storage, Misc. @ H&PE Lab           |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 360                      | Storage, Misc. @ Ground Fl, Mech    |                                   |
| 215     | G  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Storage, Misc. @ New Elevator       | 40                                |
| 215     | G  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 800                      | H&PE Sto at New Gym                 |                                   |
| 215     | 1  | 5,517              |         | 520C Total               |              |                  | 2,539                          |          | 11,360                   | Subtotal 520C                       | 2,455                             |
| 215     |    | 59,641             |         | Current Heiges 520 Total |              |                  | 56,066                         |          | 22,803                   | Renovated / Addition 520            | 20,638                            |
|         |    |                    |         |                          |              |                  |                                |          | 78,869                   | Proposed Combined 520               |                                   |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
 SPACE PROGRAM

| Bldg NO                                 | FL | Current Floor Area | Room NO | Use Code | USE                             | FUNCTION   | Program Area In Existing Bldg. | Room No.      | Program Area In Addition | Proposed Program Description   | Exist'g Area Requiring Renovation |
|---|----|--------------------|---------|----------|---------------------------------|------------|--------------------------------|---------------|--------------------------|--|-----------------------------------|
| 215                                     | 1  | 610                | 108     | 540      | Clinic                          | Sports Med |                                |               |                          |  |                                   |
| 215                                     | 1  | 1,446              | 100     | 540      | Clinic                          | Sports Med |                                |               | 1,000                    | Sp Med Trng Rm   |                                   |
| 215                                     | G  |                    |         | 540      | Clinic                          |            |                                |               | 1,500                    | Sp Med Rehab Rm  |                                   |
| 215                                     | G  |                    |         | 540      | Clinic                          |            |                                |               | 2,500                    | Renovated / Addition 540   | 0                                 |
| <b>215</b>                              |    | <b>2,056</b>       |         |          | <b>Current Heiges 540 Total</b> |            | <b>0</b>                       | <b>2,500</b>  | <b>←</b>                 | <b>Proposed Combined 540</b>   | <b>0</b>                          |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            |                                |               | 1,450                    | Corporate Hospitality Suite  |                                   |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            | 710                            |               |                          | Dressing Rooms @ Arena   | 710                               |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            | 730                            |               |                          | Additional Arena Equip. Stor. (West)                                   | 730                               |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            | 233                            |               |                          | Arena Electronic Equip. Storage  | 233                               |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            | 150                            |               |                          | pp   | 150                               |
| 215                                     | 1  |                    |         | 600      | Assembly                        |            | 272                            | 136A          |                          | Food Concession at Arena   | 272                               |
| <b>215</b>                              |    | <b>0</b>           |         |          | <b>Current Heiges 600 TOTAL</b> |            | <b>2,095</b>                   | <b>3,545</b>  | <b>←</b>                 | <b>1,450 Renovated / Addition 600</b><br><b>Proposed Combined 600</b>  | <b>2,095</b>                      |
| <b>215</b>                              |    | <b>67,793</b>      |         |          | <b>Current Heiges TOTAL ASF</b> |            | <b>64,675</b>                  | <b>98,307</b> | <b>←</b>                 | <b>33,632 Renovated / Addition ASF</b><br><b>Proposed Combined ASF</b> | <b>29,247</b>                     |
| <b>Area of Existing Being Renovated</b> |    |                    |         |          |                                 |            |                                |               |                          |  | <b>29,247</b>                     |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 1  
 SPACE PROGRAM**

| Bldg NO                         | Current Floor Area          | Room NO | USE Code                               | FUNCTION | Program Area in Existing Bldg.  | Room No. | Program Area in Addition | Proposed Program Description           | Exist'g Area Requiring Renovation |
|---------------------------------|-----------------------------|---------|--|----------|---------------------------------|----------|--------------------------|--|-----------------------------------|
| <b>SUMMARY OF SPACE PROGRAM</b> |                             |         |  |          |                                 |          |                          |  |                                   |
| <b>Existing Building</b>        |                             |         |  |          |                                 |          |                          |  |                                   |
|                                 |                             |         | USE CODE                               |          | Existing Building with Addition |          | USE CODE                 |  | Combined Use                      |
|                                 | <b>Non- Assignable Area</b> |         |  |          |                                 |          |                          |  |                                   |
|                                 | 8,483                       | +       | 7W Total - Circulation                 |          | 9,877                           | +        | 6,646                    | 7W Total - Circulation                 | 16523                             |
|                                 | 3,021                       | +       | 8X Total - Building Services           |          | 4,450                           | +        | 2,192                    | 8X Total - Building Services           | 6642                              |
|                                 | 7,586                       | +       | 9Y Total - Mechanical Services         |          | 7,432                           | +        | 2,475                    | 9Y Total - Mechanical Services         | 9907                              |
|                                 | 19,100                      | =       | SUBTOTAL NON-ASF (w/o Structural)      |          | 21,759                          | =        | 11,313                   | SUBTOTAL NON-ASF (w/o Structural)      | 33072                             |
|                                 | 4,741                       | +       | ZZ Total - Structural                  |          | 5,209                           | +        | 3,821                    | ZZ Total - Structural                  | 9030                              |
|                                 | 23,841                      | =       | TOTAL NON-ASF                          |          | 26,968                          | =        | 15,134                   | TOTAL NON-ASF                          | 42102                             |
|                                 | <b>Assignable Area</b>      |         |  |          |                                 |          |                          |  |                                   |
|                                 | 2,388                       | +       | 100 Total - Classrooms                 |          | 2,226                           | +        | 0                        | 100 Total - Classrooms                 | 2226                              |
|                                 | 0                           | +       | 200 Total - Laboratory                 |          | 0                               | +        | 750                      | 200 Total - Laboratory                 | 750                               |
|                                 | 3,708                       | +       | 300 Total - Office/Conference          |          | 4,288                           | +        | 6,129                    | 300 Total - Office/Conference          | 10417                             |
|                                 | 59,641                      | +       | 520 Total - Athletic/Physical (Indoor) |          | 56,066                          | +        | 22,803                   | 520 Total - Athletic/Physical (Indoor) | 78869                             |
|                                 | 2,056                       | +       | 540 Total - Clinic                     |          | 0                               | +        | 2,500                    | 540 Total - Clinic                     | 2500                              |
|                                 | 0                           | +       | 600 Total - Assembly                   |          | 2,095                           | +        | 1,450                    | 600 Total - Assembly                   | 3545                              |
|                                 | 67,793                      | =       | TOTAL ASF                              |          | 64,675                          | =        | 33,632                   | TOTAL ASF                              | 98307                             |
|                                 | <b>Net Usable Area</b>      |         |  |          |                                 |          |                          |  |                                   |
|                                 | 67,793                      | +       | Total Assignable                       |          |                                 |          | 33,632                   | Net Usable Area (Addition)             |                                   |
|                                 | 19,100                      | +       | Subtotal Non-Assignable                |          |                                 |          | 11,313                   | 33,632 + Total Assignable              |                                   |
|                                 | 86,893                      | =       | Net Usable Area                        |          |                                 |          | 44,945                   | 11,313 + Subtotal Non-Assignable       |                                   |
|                                 |                             |         |  |          |                                 |          |                          | 44,945 = Net Usable Area               |                                   |



SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg. NO                             | FL | Current Floor Area | Room NO | USE | FUNCTION    | Program Area      |                  | Room No. | Program Area Addition | Proposed Program Description          | Exist'g Area Requiring Renovation |
|--------------------------------------|----|--------------------|---------|-----|-------------|-------------------|------------------|----------|-----------------------|---------------------------------------|-----------------------------------|
|                                      |    |                    |         |     |             | In Existing Bldg. | Area In Addition |          |                       |                                       |                                   |
| <b>NON ASSIGNABLE SQUARE FOOTAGE</b> |    |                    |         |     |             |                   |                  |          |                       |                                       |                                   |
| 215                                  | 1  | 278                | 120     | 71  | Corr        | Betw 128&108      | 278              | 120      |                       | Corridor                              | 278                               |
| 215                                  | 1  | 124                | 123     | 71  | Corr        | Betw 128&127      | 576              | 123      |                       | Lengthened N/S corridor               | 576                               |
| 215                                  | 1  | 2,270              | 128     | 71  | Corr        | Main Lobby        | 2,270            | 128      |                       | Lobby                                 |                                   |
| 215                                  | 1  | 244                | 139A    | 71  | Corr        | Betw 138&142      | 244              | 139A     |                       | Corridor                              |                                   |
| 215                                  | 1  | 637                | 146     | 71  | Corr        | Portico           | 637              | 146      |                       | Portico                               |                                   |
| 215                                  | 1  | 78                 | 147     | 71  | Corr        | Betw 144&102      | 0                | 147      |                       | Passage Eliminated                    | 894                               |
| 215                                  | 1  | 357                | 1H1     | 71  | Corr        | Betw 138&127      | 894              | 1H1      |                       | Lengthened E/W corridor               |                                   |
| 215                                  | 2  | 1,140              | 2H1     | 71  | Corr        | 2d flr hall       | 1,140            | 2H1      |                       | 2nd Floor Corridor                    | 420                               |
| 215                                  | G  | 96                 | GH1     | 71  | Corr        | Betw 20&GH3       | 420              | GH1      |                       | Lengthened N/S corridor (6'-8" wide)  |                                   |
| 215                                  | G  | 451                | GH2     | 71  | Corr        | Betw 18&GH3       | 451              | GH2      |                       | Corridor                              |                                   |
| 215                                  | G  | 489                | GH3     | 71  | Corr        | Betw 3&GH2        | 489              | GH3      |                       | Shortened Corridor                    |                                   |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | GH       | 1,098                 | N/S Corridor 6'x169'+80 sf            |                                   |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | GH       | 440                   | E/W Corridor 6'x73'-3"                |                                   |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | GH       | 170                   | N/S Corridor 5'x34' @ Wrestling       |                                   |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | GH       | 1,632                 | Office Suite Corridor 5'x293' + 167sf |                                   |
| 215                                  | 1  |                    |         | 71  | Corr        |                   |                  | 1H       | 415                   | Pool Passage                          |                                   |
| 215                                  | 1  |                    |         | 71  | Corr        |                   |                  | 1H       | 1,100                 | N/S Corridor 6'x176', +               |                                   |
| 215                                  | 1  |                    |         | 71  | Corr        |                   |                  | 1H       | 702                   | E/W corridor 6'x83'-3" + 30 sf + 180  |                                   |
| 215                                  | 2  |                    |         | 71  | Corr        |                   | 360              | 2H2      |                       | 2nd Fl. Fac. Passage @ Office         | 360                               |
| 215                                  | 2  |                    |         | 71  | Corr        |                   | 245              | 2H3      |                       | 2nd Fl. Fac. Passage at H&PE Lab      | 245                               |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | GH       | 117                   | New Elev. Lobby at Ground Floor       |                                   |
| 215                                  | G  |                    |         | 71  | Corr        |                   |                  | 1H       | 117                   | New Elev. Lobby at First Floor        |                                   |
| 215                                  | 1  | 6,164              |         |     | Subtotal 71 |                   | 8,004            | 5,791    |                       | Subtotal 71                           | 2,773                             |
| 215                                  | G  | 167                | 2       | 72  | Stair       | SE Stair          | 167              | 2        |                       | SE Stair                              |                                   |
| 215                                  | G  | 167                | 8       | 72  | Stair       | S Stair           | 167              | 8        |                       | S Stair                               |                                   |
| 215                                  | G  | 167                | 19      | 72  | Stair       | SW Stair          | 167              | 19       |                       | SW Stair                              |                                   |
| 215                                  | 1  | 122                | 129     | 72  | Stair       | SE Stair          | 122              | 129      |                       | SE Stair                              |                                   |
| 215                                  | 1  | 167                | 130     | 72  | Stair       | S Stair           | 167              | 130      |                       | S Stair                               |                                   |
| 215                                  | 1  | 167                | 131     | 72  | Stair       | SW Stair          | 167              | 131      |                       | SW Stair                              |                                   |
| 215                                  | 2  | 167                | 203     | 72  | Stair       | S Stair           | 167              | 203      |                       | S Stair                               |                                   |
| 215                                  | 2  | 167                | 204     | 72  | Stair       | SW Stair          | 167              | 204      |                       | SW Stair                              |                                   |
| 215                                  | G  | 34                 | 21      | 72  | Stair       | Squash Stair      | 34               | 21       |                       | Squash Stair                          |                                   |
| 215                                  | G  | 34                 | 22      | 72  | Stair       | Squash Stair      | 34               | 22       |                       | Squash Stair                          |                                   |
| 215                                  | G  | 45                 | 25      | 72  | Stair       | To GH4            | 45               | 25       |                       | To GH4                                |                                   |
| 215                                  | G  | 81                 | 26      | 72  | Stair       | NW 175            | 0                | 26       |                       | Eliminated                            |                                   |
| 215                                  | G  | 72                 | 27      | 72  | Stair       | To 7              | 72               | 27       |                       | To 7                                  |                                   |
| 215                                  | G  |                    |         | 72  | Stair       |                   |                  | GS1      | 216                   | East Stair Ground Floor               |                                   |
| 215                                  | 1  |                    |         | 72  | Stair       |                   |                  | 1S1      | 216                   | East Stair First Floor                |                                   |
| 215                                  | G  |                    |         | 72  | Stair       |                   |                  | GS2      | 234                   | West Stair, Ground Floor              |                                   |
| 215                                  | 1  |                    |         | 72  | Stair       |                   |                  | 1S2      | 234                   | West Stair, First Floor               |                                   |
| 215                                  | 1  | 1,557              |         |     | Subtotal 72 |                   | 1,476            | 900      |                       | Subtotal 72                           | 0                                 |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code                | USE       | FUNCTION    | Program Area In Existing Bldg | Room No. | Program Area in Addition | Proposed Program Description  | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|-------------------------|-----------|-------------|-------------------------------|----------|--------------------------|-------------------------------|------------------------------------|
| 215     | 2  | 22                 | 207     | 73                      | Elevator  | 2d floor    | 22                            |          |                          |                               |                                    |
| 215     | G  | 22                 | 12      | 73                      | Elevator  | Gnd Floor   | 22                            |          |                          |                               |                                    |
| 215     | 1  | 22                 | 123A    | 73                      | Elevator  | First floor | 22                            |          |                          |                               |                                    |
| 215     | G  |                    |         | 73                      | Elevator  |             |                               |          | 70                       | New Elevator Ground Floor     |                                    |
| 215     | 1  |                    |         | 73                      | Elevator  |             |                               |          | 70                       | New Elevator First Floor      |                                    |
|         |    | 66                 |         | Subtotal 73             |           |             | 66                            |          | 140                      | Subtotal 73                   | 0                                  |
| 215     | 1  | 174                | 132     | 74                      | Vestibule | NW          | 174                           |          |                          | NW Vestibule                  |                                    |
| 215     | 1  | 174                | 134     | 74                      | Vestibule | NE          | 174                           |          |                          | NE Vestibule                  |                                    |
| 215     | 1  | 174                | 137     | 74                      | Vestibule | SE          | 174                           |          |                          | SE Vestibule                  |                                    |
| 215     | 1  | 174                | 143     | 74                      | Vestibule | SW          | 174                           |          |                          | SW Vestibule                  |                                    |
| 215     | G  | 696                |         | Subtotal 74             |           |             | 696                           |          | 78                       | New Vestibule at Ground Floor |                                    |
|         |    | 8,483              |         | Current Heiges 7W TOTAL |           |             | 10,242                        |          | 6,909                    | Renovated / Addition 7W       | 2,773                              |
|         |    |                    |         |                         |           |             |                               |          | 17,151                   | Proposed 7W Combined          |                                    |



**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM**

DATE: 8/4/00  
Printed on 8/4/00

| Bldg NO | FL | Current Floor Area | Room NO | USE Code | USE                     | FUNCTION        | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description  | Existg Area Requiring Renovation |
|---------|----|--------------------|---------|----------|-------------------------|-----------------|--------------------------------|----------|--------------------------|---|----------------------------------|
| 215     | 1  | 173                | 104     | 81       | Toilet M                | Locker Toilet   | 0                              |          |                          |   |                                  |
| 215     | 1  | 44                 | 111     | 81       | Toilet M                | Coach Toilet    | 0                              |          |                          |   |                                  |
| 215     | 2  | 315                | 212     | 81       | Toilet M                | Men             | 247                            | 215/209  |                          | Men's Toilet Rm. @ 2nd Fl.  | 247                              |
| 215     | G  | 97                 | 23      | 81       | Toilet M                | Fitness Toilet  | 97                             |          | 700                      | Men's Access Toilet Rm. At Fitness<br>General Men's Toilet - Locker Rooms | 97                               |
| 215     | 1  |                    |         | 81       | Toilet M                |                 | 160                            |          |                          | Men's Faculty Locker rm Toilet  | 160                              |
| 215     | 1  |                    |         | 81       | Toilet M                |                 | 690                            |          | 275                      | Men's Arena Restrooms<br>Men's Toilet Room @ Ground Fl.                   | 690                              |
| 215     | 1  |                    |         | 81       | Toilet M                |                 | 50                             |          |                          | Men's Official Locker rm Toilet   | 50                               |
| 215     | 1  |                    |         | 81       | Toilet M                |                 | 45                             |          |                          | Men's Toilet Rm. @ Arena Dress Rm.  | 45                               |
| 215     | 1  | 629                |         |          | Subtotal 81             |                 | 1,289                          |          | 975                      | Subtotal 81   | 1,289                            |
| 215     | 1  | 42                 | 117     | 82       | Toilet F                | Locker Toilet   | 0                              |          |                          |   |                                  |
| 215     | 1  | 200                | 119     | 82       | Toilet F                | Women's         | 0                              |          |                          |   |                                  |
| 215     | G  | 103                | 4       | 82       | Toilet F                | F Toilet        | 0                              |          |                          |   |                                  |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 820                            |          | 700                      | General Women's Toilet-Locker Room  | 820                              |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                                |          |                          | Women's Arena Restrm  |                                  |
| 215     | G  |                    |         | 82       | Toilet F                |                 | 315                            | 212      | 275                      | Women's Toilet Rm @ Ground Floor  | 315                              |
| 215     | 2  |                    |         | 82       | Toilet F                |                 | 50                             |          |                          | Women's Toilet Rm @ 2nd Floor   | 50                               |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 160                            |          |                          | Women's Official Locker rm Toilet   | 160                              |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 45                             |          |                          | Women's Faculty Locker rm Toilet  | 45                               |
| 215     | 1  |                    |         | 82       | Toilet F                |                 | 80                             |          |                          | Women's T. Rm. @ Arena Dress Rm.  | 80                               |
| 215     | G  |                    |         | 82       | Toilet F                |                 | 1,470                          |          | 975                      | Women's Access T. Rm. At Fitness<br>Subtotal 82                           | 1,470                            |
| 215     | 1  | 50                 | 109     | 83       | Toilet Unit             | Spts Med Toilet | 0                              |          | 0                        | Eliminated  | 0                                |
| 215     |    | 50                 |         |          | Subtotal 83             |                 | 0                              |          | 0                        | Subtotal 83   | 0                                |
| 215     | 1  | 28                 | 118     | 84       | Cust                    | Cust            | 28                             | 118      |                          | Custodial Closet  | 28                               |
| 215     | 2  | 46                 | 213     | 84       | Cust                    | Cust            | 46                             | 213      |                          | Existing Custodial Closet 2nd Fl  |                                  |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                                |          | 48                       | New Custodial Closet @ 1st Fl   |                                  |
| 215     | G  |                    |         | 84       | Cust                    |                 |                                |          | 44                       | New Custodial Closet @ Ground Fl  |                                  |
| 215     | 1  | 74                 |         | 84       | Cust                    |                 | 60                             | 148      | 92                       | Custodial Storage (West Arena)<br>Subtotal 84                             | 60                               |
| 215     | 1  | 1,738              | 142     | 85       | Maint sto               | Seating Storage | 1,738                          | 142      |                          | Seating Storage   | 88                               |
| 215     | 1  | 60                 | 148     | 85       | Maint sto               | Electronics     | 0                              |          |                          | To Become Custodial Storage   |                                  |
| 215     | G  | 107                | 14      | 85       | Maint sto               | MR2 Sto         | 107                            | 14       |                          | MR2 Sto   |                                  |
| 215     | 1  | 18                 | 102     | 85       | Maint Sto               | Sto Pool Vac    | 18                             | 102      |                          | Sto Pool Vac  |                                  |
| 215     | G  |                    |         | 85       | Maint sto               |                 |                                |          | 150                      | New Maintenance Storage   |                                  |
| 215     |    | 1,923              |         |          | Subtotal 85             |                 | 1,863                          |          | 150                      | Subtotal 85   | 0                                |
| 215     |    | 3,021              |         |          | Current Heiges BX TOTAL |                 | 4,756                          |          | 2,192                    | Renovated / Addition BX   | 2,847                            |
|         |    |                    |         |          |                         |                 |                                | 6,948    |                          | Proposed BX Combined  |                                  |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg NO | FL  | Current Floor Area | Room NO | Use Code | USE                     | FUNCTION         | Program Area in Existing Bldg. | Room No. | Program Area in Addition | Proposed Program Description        | Existing Area Requiring Renovation |
|---------|-----|--------------------|---------|----------|-------------------------|------------------|--------------------------------|----------|--------------------------|-------------------------------------|------------------------------------|
| 215     | G   | 725                | 18      | 91       | Mach                    | Elect            | 725                            |          | 400                      | Electrical Rm in addition, Grd. Fl. |                                    |
| 215     | G   |                    |         | 91       | Mach                    |                  |                                |          | 80                       | Tele/Com Room Gnd. Fl.              |                                    |
| 215     | G   |                    |         | 91       | Mach                    |                  |                                |          | 80                       | Tele/Com Room 1st Fl.               |                                    |
| 215     | 1   |                    |         | 91       | Mach                    |                  | 96                             |          |                          | Tele/Com Room 2nd Fl.               | 96                                 |
| 215     | 2   |                    |         | 91       | Mach                    |                  | 821                            |          | 560                      | Subtotal 91                         | 96                                 |
| 215     | 1   | 169                | 133A    | 92       | Mach                    | North Sto        | 169                            |          |                          | North Sto                           |                                    |
| 215     | 1   | 512                | 133B    | 92       | Mach                    | North Sto        | 512                            |          |                          | North Sto                           |                                    |
| 215     | 1   | 522                | 133C    | 92       | Mach                    | North Sto        | 522                            |          |                          | North Sto                           |                                    |
| 215     | 1   | 183                | 133D    | 92       | Mach                    | North Sto        | 183                            |          |                          | North Sto                           |                                    |
| 215     | 1   | 272                | 136A    | 92       | Mach                    | Cust Sto         | 0                              |          |                          | To Become Food Concession           |                                    |
| 215     | 1   | 426                | 136B    | 92       | Mach                    | S Sto            | 426                            |          |                          | S Sto                               |                                    |
| 215     | 1   | 715                | 136C    | 92       | Mach                    | S Sto            | 715                            |          |                          | S Sto                               |                                    |
| 215     | 1   | 394                | 139     | 92       | Mach                    | W Mech Rm        | 394                            |          |                          | W Mech Rm                           |                                    |
| 215     | 2   | 153                | 202     | 92       | Mach                    | Above 175A       | 153                            |          |                          | Above 175A                          |                                    |
| 215     | 2   | 22                 | 211     | 92       | Mach                    | Mechanical       | 60                             |          |                          | Mech. Access to Roof from Corr.     | 48                                 |
| 215     | 2   | 1,061              | 214     | 92       | Mach                    | Mech             | 1,061                          |          |                          | Mech                                |                                    |
| 215     | G   | 1,567              | 1       | 92       | Mach                    | Mech             | 1,567                          |          |                          | Mech                                |                                    |
| 215     | G   | 192                | 7       | 92       | Mach                    | Mech             | 192                            |          |                          | Mech                                |                                    |
| 215     | G   | 413                | 09A     | 92       | Mach                    | Behind Pool      | 413                            |          |                          | Behind Pool                         |                                    |
| 215     | G   | 18                 | 15      | 92       | Mach                    | space in Fitness | 18                             |          |                          | space in Fitness                    |                                    |
| 215     | G   | 133                | GH4     | 92       | Mach                    | NW 20            | 133                            |          |                          | NW 20                               |                                    |
| 215     | 1   |                    |         | 92       | Mach                    |                  |                                |          |                          |                                     |                                    |
| 215     | 1   |                    |         | 92       | Mach                    |                  |                                |          |                          |                                     |                                    |
| 215     | G   | 6,752              |         |          | Subtotal 92             |                  | 6,518                          |          |                          |                                     | 48                                 |
| 215     | G   | 119                | 11      | 93       | Elevator                | Elev Machine     | 119                            | 11       |                          | Elevator machine room               |                                    |
| 215     | G   |                    |         | 93       | Elevator                |                  |                                |          | 45                       | New Elevator Mach. Rm.              |                                    |
| 215     | G   | 119                |         |          | Subtotal 93             |                  | 119                            |          | 45                       | Subtotal 93                         | 0                                  |
| 215     |     | 7,596              |         |          | Current Heiges 9Y TOTAL |                  | 7,458                          |          | 3,165                    | Renovated / Addition 9Y             | 144                                |
| 215     | All | 4,741              |         | ZZ       | Heiges Structural       |                  | 5,360                          | 10,643   | 3,434                    | Proposed 9Y Combined                |                                    |
|         |     |                    |         |          |                         |                  |                                |          |                          | Balance of Structure & walls        |                                    |
|         |     |                    |         |          |                         |                  | 5,360                          |          |                          | (as Calculated on Page 10)          |                                    |
|         |     | 4,741              |         |          |                         |                  | 5,360                          | 8,794    |                          | Proposed Structural Total           | 0                                  |
| 215     |     | 19,100             |         |          | Current Heiges NON-ASF  |                  | 27,816                         | 43,536   | 15,720                   | Renovated / Add. NON-ASF            | 5,764                              |
|         |     |                    |         |          |                         |                  |                                |          |                          | Proposed Combined NON-ASF           |                                    |
|         |     |                    |         |          |                         |                  |                                |          |                          | Area of Existing Being Renovated    | 5,764                              |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg NO                          | Current Floor Area | Room NO | USE  | FUNCTION | Program Area In Existing Bldg. |         | Room No. | Program Area In Addition | Proposed Program Description          | Exist'g Area Requiring Renovation |
|----------------------------------|--------------------|---------|------|----------|--------------------------------|---------|----------|--------------------------|---------------------------------------|-----------------------------------|
|                                  |                    |         |      |          | Bldg.                          | Area In |          |                          |                                       |                                   |
| <b>ASSIGNABLE SQUARE FOOTAGE</b> |                    |         |      |          |                                |         |          |                          |                                       |                                   |
| 215                              | 2                  | 1,194   | 220  | 110      | Classrm                        | 1,044   |          |                          | H&PE Classroom                        | 1044                              |
| 215                              | 2                  | 1,194   | 230  | 110      | Classrm                        | 1,088   |          |                          | H&PE Classroom                        | 1088                              |
| 215                              | 2                  |         |      | 110      | Classrm                        | 92      |          |                          | Classroom Storage, Rm. 220            | 92                                |
| 215                              | 2                  |         |      | 110      | Classrm                        | 92      |          |                          | Classroom Storage, Rm 230             | 92                                |
| 215                              |                    | 2,388   |      |          | Current Heiges 100 Total       | 2,316   |          | 0                        | Renovated / Addition 100              | 2,316                             |
| 215                              | 2                  |         |      | 200      | Laboratory                     | 910     |          |                          | Proposed Combined 100                 | 910                               |
| 215                              | 2                  |         |      | 200      | Laboratory                     | 210     |          |                          | H&PE Laboratory @ 2nd Fl.             | 210                               |
| 215                              |                    | 0       |      |          | Current Heiges 200 Total       | 1,120   |          | 0                        | Renovated / Addition 200              | 1,120                             |
|                                  |                    |         |      |          |                                |         |          |                          | Proposed Combined 200                 |                                   |
| 215                              | 1                  | 126     | 125  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  | 70      | 165  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  | 126     | 135  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  | 126     | 145  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  | 126     | 155  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  | 153     | 175A | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 2                  | 115     | 215  | 305      | Fac Off                        | 153     | 175A     |                          | Swim Coach                            |                                   |
| 215                              | 2                  | 115     | 215A | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 2                  | 135     | 205  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 2                  | 248     | 210  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | G                  | 104     | 20A  | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 2                  | 504     | 231A | 305      | Fac Off                        |         |          |                          |                                       |                                   |
| 215                              | 1                  |         |      | 305      | Fac Off                        | 450     |          |                          | (3) Coaches Offices 1st Fl            | 450                               |
| 215                              | 1                  |         |      | 305      | Fac Off                        | 480     |          |                          | (4) Asslt. Coaches Offices 1st Fl     | 480                               |
| 215                              | G                  |         |      | 305      | Fac Off                        |         |          | 150                      | Wrestling Coach                       |                                   |
| 215                              | G                  |         |      | 305      | Fac Off                        |         |          | 120                      | (1) Asslt. Wrestling Coaches          |                                   |
| 215                              | G                  |         |      | 305      | Fac Off                        |         |          | 2,112                    | (14) Coaches Offices Ground Fl        |                                   |
| 215                              | G                  |         |      | 305      | Fac Off                        |         |          | 2,280                    | (19) Asslt. Coaches Offices Ground Fl |                                   |
| 215                              | 2                  |         |      | 305      | Fac Off                        | 840     |          |                          | (7) H&PE Faculty 2nd Fl               | 840                               |
| 215                              | 1                  |         |      | 305      | Fac Off                        | 150     |          |                          | (1) Coach Office Gnd. Fl. @ Fitness   | 150                               |
| 215                              | G                  |         |      | 305      | Fac Off                        | 120     |          |                          | (1) Asslt. Coach at Fitness           | 120                               |
|                                  |                    | 1,948   |      |          | 305 Total                      | 2,193   |          | 4,662                    | Subtotal 305                          | 2,040                             |
| 215                              | 2                  | 14      | 208  | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | 2                  | 14      | 209  | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | G                  | 30      | 16   | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | 1                  |         |      | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | 1                  |         |      | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | 2                  |         |      | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
| 215                              | 2                  |         |      | 310      | Fac Off Svc                    |         |          |                          |                                       |                                   |
|                                  |                    | 58      |      |          | 310 Total                      | 617     |          | 0                        | Subtotal 310                          | 617                               |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM**

| Bldg NO | FL | Current Floor Area | Room NO | USE        | USE Code                 | FUNCTION       | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description  | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|------------|--------------------------|----------------|--------------------------------|----------|--------------------------|-------------------------------|------------------------------------|
| 215     | 1  | 229                | 105     | Admin      | 315                      | Dir Ath        | 0                              |          |                          |                               |                                    |
| 215     | 1  | 68                 | 107     | Admin      | 315                      | Sports Med Off | 0                              |          |                          |                               |                                    |
| 215     | 1  | 150                | 100A    | Admin      | 315                      | Sports Med Off | 0                              |          |                          |                               |                                    |
| 215     | 1  |                    |         | Admin      | 315                      |                | 200                            |          |                          | Dir Ath                       | 200                                |
| 215     | 1  |                    |         | Admin      | 315                      |                | 150                            |          |                          | Assoc Dir                     | 150                                |
| 215     | 1  |                    |         | Admin      | 315                      |                | 150                            |          |                          | Dir Spt Med                   | 150                                |
| 215     | 2  |                    |         | Admin      | 315                      |                | 500                            |          |                          | H&PE Chair                    | 500                                |
|         |    | 447                |         |            | 315 Total                |                |                                |          |                          | Subtotal 315                  |                                    |
| 215     | 1  | 214                | 105A    | Clerical   | 325                      | Dir Secy       | 0                              |          |                          |                               |                                    |
| 215     | 1  | 41                 | 185     | Clerical   | 325                      | Mail Room      | 0                              |          |                          |                               |                                    |
| 215     | 2  | 619                | 231     | Clerical   | 325                      | Ft ball Secy   | 0                              |          |                          |                               |                                    |
| 215     | 1  |                    |         | Clerical   | 325                      |                | 315                            |          |                          | Sec/Reception Ath @ First Fl. | 315                                |
| 215     | 2  |                    |         | Clerical   | 325                      |                | 220                            |          |                          | Sec/Reception H&PE            | 220                                |
| 215     | G  |                    |         | Clerical   | 325                      |                |                                |          | 275                      | Sec/Reception FB              |                                    |
| 215     | G  |                    |         | Clerical   | 325                      |                |                                |          | 275                      | Sec/Reception SB              |                                    |
| 215     | G  |                    |         | Clerical   | 325                      |                |                                |          | 275                      | Sec/Reception BB              |                                    |
| 215     | G  |                    |         | Clerical   | 325                      |                | 535                            |          | 825                      | Subtotal 325                  | 535                                |
|         |    | 874                |         |            | 325 Total                |                |                                |          |                          |                               |                                    |
| 215     | G  | 105                | 13      | Grad Asst  | 335                      | Fitness Ctr    | 0                              |          |                          |                               | 0                                  |
|         |    | 105                |         |            | 335 Total                |                |                                |          |                          |                               |                                    |
| 215     | 1  | 127                | 115     | Conf rm    | 365                      | Conf Rm - DoA  | 0                              |          |                          |                               |                                    |
| 215     | 2  | 149                | 216     | Conf Rm    | 365                      | Conf Rm FB     | 0                              |          |                          |                               |                                    |
| 215     | 1  |                    |         | Conf Rm    | 365                      |                | 255                            |          |                          | Conf Rm Ath                   | 255                                |
| 215     | G  |                    |         | Conf Rm    | 365                      |                |                                |          | 150                      | Conf Rm FB                    |                                    |
| 215     | G  |                    |         | Conf Rm    | 365                      |                |                                |          | 150                      | Conf Rm SB                    |                                    |
| 215     | G  |                    |         | Conf Rm    | 365                      |                |                                |          | 150                      | Conf Rm BB                    |                                    |
| 215     | 2  |                    |         | Conf Rm    | 365                      |                | 250                            |          |                          | Conf Rm H&PE, 2nd Floor       | 250                                |
|         |    | 276                |         |            | 365 Total                |                | 505                            |          | 450                      | Subtotal 365                  | 505                                |
|         |    | 3,708              |         |            | Current Heiges 300 TOTAL |                | 4,360                          |          | 6,087                    | Renovated / Addition: 300     | 4,197                              |
|         |    |                    |         |            |                          |                |                                | 10,437   |                          | Proposed Combined 300         |                                    |
| 215     | 1  | 7,140              | 175     | Ath-PE-Int | 520A                     | Swim Pool      | 7,140                          |          |                          | Swim Pool                     |                                    |
| 215     | 1  | 33,832             | 138     | Ath-PE-Int | 520A                     | Arena          | 33,832                         |          |                          | Arena                         |                                    |
| 215     | 2  | 3,570              | 200     | Ath-PE-Int | 520A                     | Wrestling      |                                |          |                          |                               |                                    |
| 215     | G  | 594                | 10A     | Ath-PE-Int | 520A                     | Squash         | 594                            |          |                          | Squash                        |                                    |
| 215     | G  | 594                | 10B     | Ath-PE-Int | 520A                     | Squash         | 594                            |          |                          | Squash                        |                                    |
| 215     | G  | 594                | 10C     | Ath-PE-Int | 520A                     | Squash         | 594                            |          |                          | Squash                        |                                    |
| 215     | G  | 594                | 10D     | Ath-PE-Int | 520A                     | Squash         | 594                            |          |                          | Squash                        |                                    |
| 215     | G  | 5,694              | 20      | Ath-PE-Int | 520A                     | Fitness Ctr    | 5,097                          |          |                          | Fitness Center                | 5097                               |
| 215     | G  |                    |         | Ath-PE-Int | 520A                     |                |                                |          | 3,570                    | Wrestling                     |                                    |
| 215     | 1  |                    |         | Ath-PE-Int | 520A                     |                |                                |          | 9,193                    | Large Gym                     |                                    |
| 215     | 2  |                    |         | Ath-PE-Int | 520A                     |                | 1,300                          |          |                          | Small Gym                     | 1300                               |
| 215     | 1  | 52,612             |         | Ath-PE-Int | 520A Total               |                | 49,745                         |          | 850                      | Multi-Purpose Athletic Space  | 1300                               |
|         |    |                    |         |            |                          |                |                                |          | 13,613                   | Subtotal 520A                 | 6,397                              |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code                 | USE          | FUNCTION         | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description         | Exist'g Area Requiring Renovation |
|---------|----|--------------------|---------|--------------------------|--------------|------------------|--------------------------------|----------|--------------------------|--------------------------------------|-----------------------------------|
| 215     | 1  | 756                | 138N    | 520B                     | Ath Seat-Int | N Bleach         | 756                            |          |                          | North Bleachers                      | 0                                 |
| 215     | 1  | 756                | 138S    | 520B                     | Ath Seat-Int | S Bleach         | 756                            |          |                          | South Bleachers                      | 0                                 |
|         |    | 1,512              |         | 520B Total               |              |                  | 1,512                          |          |                          | 0 Subtotal 520B                      | 0                                 |
| 215     | 1  | 18                 | 103     | 520C                     | Ath Svc-Int  | Swim Sto         | 18                             |          |                          | Swim Sto                             |                                   |
| 215     | 1  | 859                | 106     | 520C                     | Ath Svc-Int  | M Varsity Locker |                                |          |                          |                                      |                                   |
| 215     | 1  | 44                 | 112     | 520C                     | Ath Svc-Int  | Coach Shower     |                                |          |                          |                                      |                                   |
| 215     | 1  | 171                | 113     | 520C                     | Ath Svc-Int  | Coach Locker     |                                |          |                          |                                      |                                   |
| 215     | 1  | 398                | 116     | 520C                     | Ath Svc-Int  | F Varsity Locker |                                |          |                          |                                      |                                   |
| 215     | 1  | 63                 | 116A    | 520C                     | Ath Svc-Int  | Sto              |                                |          |                          |                                      |                                   |
| 215     | 1  | 377                | 121     | 520C                     | Ath Svc-Int  | Equip Rm         |                                |          |                          |                                      |                                   |
| 215     | 1  | 1,881              | 127     | 520C                     | Ath Svc-Int  | M Locker         |                                |          |                          |                                      |                                   |
| 215     | 1  | 599                | 144     | 520C                     | Ath Svc-Int  | M Shower         |                                |          |                          |                                      |                                   |
| 215     | G  | 466                | 3       | 520C                     | Ath Svc-Int  | F Locker         |                                |          |                          |                                      |                                   |
| 215     | G  | 107                | 6       | 520C                     | Ath Svc-Int  | F Shower         |                                |          |                          |                                      |                                   |
| 215     | G  | 408                | 9       | 520C                     | Ath Svc-Int  | Laundry          | 1,200                          |          |                          | Laundry - enlarged                   | 1200                              |
| 215     | 1  | 66                 | 114     | 520C                     | Ath Svc-Int  | Trophy case      | 66                             |          |                          | Trophy case                          |                                   |
| 215     | G  | 60                 | 24      | 520C                     | Ath Svc-Int  | Fitness Sto      |                                |          |                          |                                      |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 400                      | Equipment Issue Rms, Men             |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,200                    | Men's General Locker Room            |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,400                    | Men's Shared Shower Room             |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 2,000                    | Men's Team Locker Rooms (5)          |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Faculty Locker Rm Showers      | 140                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Faculty Locker Room            | 250                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Men's Officials Locker Rm Showers    | 44                                |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Mens' Officials Locker Room          | 171                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 400                      | Equipment Issue Rms, Women           |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,200                    | Women's General Locker Room          |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 1,400                    | Women's Shared Shower Room           |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 2,000                    | Women's Team Locker Rooms (5)        |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Faculty Locker Rm Showers    | 140                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Faculty Locker Room          | 250                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Women's Officials Locker Rm Showers  | 40                                |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Womens' Officials Locker Room        | 180                               |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Small Gym Storage                    | 150                               |
| 215     | 2  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 147                      | Storage, Misc. @ Sports Rehab.       |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 264                      | Storage, Misc. @ Sports Med.         |                                   |
| 215     | 1  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          |                          | Storage, Misc. @ New Elevator        |                                   |
| 215     | G  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 72                       | Storage, Misc. @ Ath. Office Gnd Fl. |                                   |
| 215     | G  |                    |         | 520C                     | Ath Svc-Int  |                  |                                |          | 800                      | H&PE sto at New Gym                  |                                   |
| 215     | 1  | 5,517              |         | 520C Total               |              |                  | 2,689                          |          | 11,283                   | Subtotal 520C                        | 2,565                             |
| 215     |    | 59,641             |         | Current Heiges 520 Total |              |                  | 53,946                         |          | 24,896                   | Renovated / Addition 520             | 8,962                             |
|         |    |                    |         |                          |              |                  |                                |          | 78,842                   | Proposed Combined 520                |                                   |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code | USE                      | FUNCTION   | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description         | Existg Area Requiring Renovation |
|---------|----|--------------------|---------|----------|--------------------------|------------|--------------------------------|----------|--------------------------|--------------------------------------|----------------------------------|
| 215     | 1  | 510                | 108     | 540      | Clinic                   | Sports Med |                                |          |                          |                                      |                                  |
| 215     | 1  | 1,446              | 100     | 540      | Clinic                   | Sports Med |                                |          | 1,000                    | Sp Med Tng Rm                        |                                  |
| 215     | 1  |                    |         | 540      | Clinic                   |            |                                |          | 1,500                    | Sp Med Rehab Rm                      |                                  |
| 215     | 1  |                    |         | 540      | Clinic                   |            |                                |          | 2,500                    | Renovated / Addition 540             | 0                                |
| 215     |    | 2,056              |         |          | Current Heiges 540       | TOTAL      | 0                              | 2,500    | <                        | Proposed Combined 540                |                                  |
| 215     | G  |                    |         | 600      | Assembly                 |            |                                |          | 1,450                    | Corporate Hospitality Suite          |                                  |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 710                            |          |                          | Dressing Rooms @ Arena               | 710                              |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 730                            |          |                          | Additional Arena Equip. Stor. (West) | 730                              |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 233                            |          |                          | Arena Electronic Equip. Storage      | 233                              |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 150                            |          |                          | Arena Box Office and Concession      | 150                              |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 272                            | 136A     |                          | Food Concession at Arena             | 233                              |
| 215     | 1  |                    |         | 600      | Assembly                 |            | 2,095                          |          | 1,450                    | Renovated / Addition 600             | 2,066                            |
| 215     |    | 0                  |         |          | Current Heiges 600       | TOTAL      | 2,095                          | 3,545    | <                        | Proposed Combined 600                |                                  |
| 215     |    | 67,793             |         |          | Current Heiges TOTAL ASF |            | 63,827                         | 98,760   | <                        | 34,933 Renovated / Addition ASF      | 18,651                           |
|         |    |                    |         |          |                          |            |                                |          |                          | Proposed Combined ASF                |                                  |
|         |    |                    |         |          |                          |            |                                |          |                          | Area of Existing Being Renovated     |                                  |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
 SPACE PROGRAM

| Bldg NO                         | Current Floor Area | Room NO | USE CODE                               | USE | FUNCTION | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description           | Exist'g Area Requiring Renovation |
|---------------------------------|--------------------|---------|--|-----|----------|--------------------------------|----------|--------------------------|--|-----------------------------------|
| <b>SUMMARY OF SPACE PROGRAM</b> |                    |         |  |     |          |                                |          |                          |  |                                   |
| <b>Existing Building</b>        |                    |         |  |     |          |                                |          |                          |  |                                   |
|                                 |                    |         | USE CODE                               |     |          |                                |          |                          |  | Combined Use                      |
|                                 |                    |         |  |     |          | <b>Non- Assignable Area</b>    |          |                          |  |                                   |
|                                 | 8,483              | +       | 7W Total - Circulation                 |     |          | 10,242                         | +        | 6,909                    | 7W Total - Circulation                 | 17151                             |
|                                 | 3,021              | +       | 8X Total - Building Services           |     |          | 4,756                          | +        | 2,192                    | 8X Total - Building Services           | 6948                              |
|                                 | 7,596              | +       | 9Y Total - Mechanical Services         |     |          | 7,458                          | +        | 3,185                    | 9Y Total - Mechanical Services         | 10643                             |
|                                 | 19,100             | =       | SUBTOTAL NON-ASF (w/o Structural)      |     |          | 22,456                         | =        | 12,286                   | SUBTOTAL NON-ASF (w/o Structural)      | 34742                             |
|                                 | 4,741              | +       | ZZ Total - Structural                  |     |          | 5,360                          | +        | 3,434                    | ZZ Total - Structural                  | 8794                              |
|                                 | 23,841             | =       | TOTAL NON-ASF                          |     |          | 27,816                         | =        | 15,720                   | TOTAL NON-ASF                          | 43536                             |
|                                 |                    |         |  |     |          |                                |          |                          |  |                                   |
|                                 |                    |         |  |     |          | <b>Assignable Area</b>         |          |                          |  |                                   |
|                                 | 2,388              | +       | 100 Total - Classrooms                 |     |          | 2,316                          | +        | 0                        | 100 Total - Classrooms                 | 2316                              |
|                                 | 0                  | +       | 200 Total - Laboratory                 |     |          | 1,120                          | +        | 0                        | 200 Total - Laboratory                 | 1120                              |
|                                 | 3,708              | +       | 300 Total - Office/Conference          |     |          | 4,350                          | +        | 6,087                    | 300 Total - Office/Conference          | 10437                             |
|                                 | 59,641             | +       | 520 Total - Athletic/Physical (Indoor) |     |          | 53,946                         | +        | 24,896                   | 520 Total - Athletic/Physical (Indoor) | 78842                             |
|                                 | 2,056              | +       | 540 Total - Clinic                     |     |          | 0                              | +        | 2,500                    | 540 Total - Clinic                     | 2500                              |
|                                 | 0                  | +       | 600 Total - Assembly                   |     |          | 2,095                          | +        | 1,450                    | 600 Total - Assembly                   | 3545                              |
|                                 | 67,793             | =       | TOTAL ASF                              |     |          | 63,827                         | =        | 34,933                   | TOTAL ASF                              | 98760                             |
|                                 |                    |         |  |     |          |                                |          |                          |  |                                   |
|                                 |                    |         |  |     |          | <b>Net Usable Area</b>         |          |                          |  |                                   |
|                                 | 67,793             | +       | Total Assignable                       |     |          |                                |          |                          | Net Usable Area (Addition)             |                                   |
|                                 | 19,100             | +       | Subtotal Non-Assignable                |     |          |                                |          | 34,933                   | + Total Assignable                     |                                   |
|                                 | 86,893             | =       | Net Usable Area                        |     |          |                                |          | 12,286                   | + Subtotal Non-Assignable              |                                   |
|                                 |                    |         |  |     |          |                                |          | 47,219                   | = Net Usable Area                      |                                   |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 2  
 SPACE PROGRAM

| Bldg NO | FL | Current Floor Area                              | Room NO | USE CODE  | USE                               | FUNCTION | Program Area In Existing Bldg | Room No. | Program Area In Addition          | Proposed Program Description | Exist'g Area Requiring Renovation |  |
|---------|----|---|---------|---|-----------------------------------|----------|-------------------------------|----------|-----------------------------------|------------------------------|-----------------------------------|--|
|         |    | <b>Gross Area</b>                               |         |   |                                   |          | <b>Gross Area</b>             |          |                                   |                              |                                   |  |
|         |    | 19,100  | +       |   | Heiges Total NON-ASF (existing)   |          | 22,456                        |          | Heiges TOTAL NON-ASF (renovated)  |                              |                                   |  |
|         |    | 67,793  | +       |   | Heiges Total ASF (existing)       |          | 63,827                        |          | Heiges Total ASF (renovated)      |                              |                                   |  |
|         |    | 4,741   | +       |   | Heiges Structural Area (existing) |          | 5,360                         |          | Heiges Structural Area            |                              |                                   |  |
|         |    | 91,634  | =       |   | Heiges GROSS AREA, Sq Ft (exist.) |          | 91,634                        |          | Heiges GROSS AREA, Sq Ft (exist.) |                              |                                   |  |
|         |    | Gross Area divided by Assignable equals         |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | Gross Square Foot Factor (Existing Heiges)      |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 91,634  | =       | 1.35  | Existing Factor                   |          | 91,634                        |          | Renovated Area Factor             |                              |                                   |  |
|         |    | 67,793  |         |   |                                   |          | 63,827                        |          |                                   |                              |                                   |  |
|         |    | Gross Area of Add. = 1.45 times Assignable Area |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 1.45 SSHE Standard Area Factor                  |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 34,933 x Assignable Area of Addition            |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 50,653 = Gross Area of Add. (See Note 1 Below)  |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | Structural Area                                 |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 50,653 + Gross Area                             |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 47,219 - Net Usable Area                        |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 3,434 = Structural Area                         |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | <b>Combined Building Areas</b>                  |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 34,742 + Total Non-Assignable                   |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 98,760 + Total Assignable                       |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 8,794 + Structural Area                         |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | 142,296 = Gross Area Combined                   |         |   |                                   |          |                               |          |                                   |                              |                                   |  |
|         |    | NOTES:  | 1       | NEW BUILDING GROSS AREA IS CALCULATED BY TAKING PROGRAMMED ASSIGNABLE AREA AND MULTIPLYING BY THE SSHE STANDARD FACTOR 1.45 |                                   |          |                               |          |                                   |                              |                                   |  |



SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

| Bldg<br>NO                           | Current<br>FL | Current<br>Floor Area | Room<br>NO | Use<br>Code | USE         | FUNCTION     | Program<br>Area in |                   | Room No. | Program<br>Area in<br>Addition       | Proposed Program Description | Existing Area<br>Requiring<br>Renovation |
|--------------------------------------|---------------|-----------------------|------------|-------------|-------------|--------------|--------------------|-------------------|----------|--------------------------------------|------------------------------|--|
|                                      |               |                       |            |             |             |              | Existing<br>Bldg.  | Existing<br>Bldg. |          |                                      |                              |  |
| <b>NON ASSIGNABLE SQUARE FOOTAGE</b> |               |                       |            |             |             |              |                    |                   |          |                                      |                              |  |
| 215                                  | 1             | 278                   | 120        | 71          | Corr        | Betw 128&108 | 278                | 120               |          | Corridor                             | 278                          |  |
| 215                                  | 1             | 124                   | 123        | 71          | Corr        | Betw 128&127 | 576                | 123               |          | Lengthened N/S corridor              | 576                          |  |
| 215                                  | 1             | 2,270                 | 128        | 71          | Corr        | Main Lobby   | 2,270              | 128               |          | Lobby                                |                              |  |
| 215                                  | 1             | 244                   | 139A       | 71          | Corr        | Betw 138&142 | 244                | 139A              |          | Corridor                             |                              |  |
| 215                                  | 1             | 637                   | 146        | 71          | Corr        | Portico      | 637                | 146               |          | Portico                              |                              |  |
| 215                                  | 1             | 78                    | 147        | 71          | Corr        | Betw 144&102 | 0                  | 147               |          | Passage Eliminated                   |                              |  |
| 215                                  | 1             | 357                   | 1H1        | 71          | Corr        | Betw 138&127 | 894                | 1H1               |          | Lengthened EW corridor               | 894                          |  |
| 215                                  | 2             | 1,140                 | 2H1        | 71          | Corr        | 2d flr hall  | 1,140              | 2H1               |          | 2nd Floor Corridor                   |                              |  |
| 215                                  | G             | 96                    | GH1        | 71          | Corr        | Betw 20&GH3  | 420                | GH1               |          | Lengthened N/S corridor (6'-8" wide) | 420                          |  |
| 215                                  | G             | 451                   | GH2        | 71          | Corr        | Betw 18&GH3  | 451                | GH2               |          | Corridor                             |                              |  |
| 215                                  | G             | 489                   | GH3        | 71          | Corr        | Betw 3&GH2   | 489                | GH3               |          | Shortened Corridor                   |                              |  |
| 215                                  | G             |                       |            | 71          | Corr        |              |                    |                   |          | 1,135 N/S Corridor 6'X159'+180 sf    |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 1,140 N/S Corridor                   |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 826 EW corridor                      |                              |  |
| 215                                  | 2             |                       |            | 71          | Corr        |              | 72                 | 2H                |          | Entry to Pool Bleachers              | 72                           |  |
| 215                                  | 2             |                       |            | 71          | Corr        |              | 287                | 2H                |          | 2nd Fl. Fac. Passage at FB           | 287                          |  |
| 215                                  | G             |                       |            | 71          | Corr        |              |                    |                   |          | 510 New Elev. Lobby at Ground Floor  |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 285 New Elev. Lobby at First Floor   |                              |  |
| 215                                  | 2             |                       |            | 71          | Corr        |              | 693                | 1H                |          | Office Passage at Coaches (N)        | 693                          |  |
| 215                                  | 2             |                       |            | 71          | Corr        |              | 490                |                   |          | Office Passage at Coaches (S)        | 490                          |  |
| 215                                  | G             |                       |            | 71          | Corr        |              |                    |                   |          | 198 Exit @ Electrical Rm.            |                              |  |
| 215                                  | G             |                       |            | 71          | Corr        |              |                    |                   |          | 275 Electrical Rm. Access            |                              |  |
| 215                                  | G             |                       |            | 71          | Corr        |              |                    |                   |          | 1,000 N/S Corridor at H&P            |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 400 EW Corridor at Small Gym         |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 671 N/S Corridor At West Side        |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 605 H&PE Office Passage              |                              |  |
| 215                                  | 1             |                       |            | 71          | Corr        |              |                    |                   |          | 100 Ramp @ Women's Locker            |                              |  |
| 215                                  | G             | 6,164                 |            |             | Subtotal 71 |              | 8,941              |                   |          | 7,145 Subtotal 71                    | 3,710                        |  |
| 215                                  | G             | 167                   | 2          | 72          | Stair       | SE Stair     | 167                | 2                 |          | SE Stair                             |                              |  |
| 215                                  | G             | 167                   | 8          | 72          | Stair       | S Stair      | 167                | 8                 |          | S Stair                              |                              |  |
| 215                                  | G             | 167                   | 19         | 72          | Stair       | SW Stair     | 167                | 19                |          | SW Stair                             |                              |  |
| 215                                  | 1             | 122                   | 129        | 72          | Stair       | SE Stair     | 122                | 129               |          | SE Stair                             |                              |  |
| 215                                  | 1             | 167                   | 130        | 72          | Stair       | S Stair      | 167                | 130               |          | S Stair                              |                              |  |
| 215                                  | 1             | 167                   | 131        | 72          | Stair       | SW Stair     | 167                | 131               |          | SW Stair                             |                              |  |
| 215                                  | 2             | 167                   | 203        | 72          | Stair       | S Stair      | 167                | 203               |          | S Stair                              |                              |  |
| 215                                  | 2             | 167                   | 204        | 72          | Stair       | SW Stair     | 167                | 204               |          | SW Stair                             |                              |  |
| 215                                  | G             | 34                    | 21         | 72          | Stair       | Squash Stair | 34                 | 21                |          | Squash Stair                         |                              |  |
| 215                                  | G             | 34                    | 22         | 72          | Stair       | Squash Stair | 34                 | 22                |          | Squash Stair                         |                              |  |
| 215                                  | G             | 45                    | 25         | 72          | Stair       | To GH4       | 45                 | 25                |          | To GH4                               |                              |  |
| 215                                  | G             | 81                    | 26         | 72          | Stair       | NW 175       | 0                  | 26                |          | Eliminated                           |                              |  |
| 215                                  | G             | 72                    | 27         | 72          | Stair       | To 7         | 72                 | 27                |          | To 7                                 |                              |  |
| 215                                  | 1             |                       |            | 72          | Stair       |              |                    |                   |          | 84 Stair Exit From Electric Room     |                              |  |
| 215                                  | G             |                       |            | 72          | Stair       |              |                    |                   |          | 207 South Stair Ground Floor         |                              |  |
| 215                                  | 1             |                       |            | 72          | Stair       |              |                    |                   |          | 207 South Stair First Floor          |                              |  |
| 215                                  | G             |                       |            | 72          | Stair       |              |                    |                   |          | 300 Central Stair, Ground Floor      |                              |  |
| 215                                  | 1             |                       |            | 72          | Stair       |              |                    |                   |          | 300 Central Stair, First Floor       |                              |  |
| 215                                  | G             | 1,557                 |            |             | Subtotal 72 |              | 1,476              |                   |          | 1,098 Subtotal 72                    | 0                            |  |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

| Blgd NO | FL | Current Floor Area | Room NO | Use Code | USE                     | FUNCTION    | Program Area In Existing Bldg. | Room No. | Program Area In Addition | Proposed Program Description       | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|----------|-------------------------|-------------|--------------------------------|----------|--------------------------|------------------------------------|------------------------------------|
| 215     | 2  | 22                 | 207     | 73       | Elevator                | 2d floor    | 22                             |          |                          |                                    |                                    |
| 215     | G  | 22                 | 12      | 73       | Elevator                | Grnd Floor  | 22                             |          |                          |                                    |                                    |
| 215     | 1  | 22                 | 123A    | 73       | Elevator                | First floor | 22                             |          |                          |                                    |                                    |
| 215     | G  |                    |         | 73       | Elevator                |             |                                |          | 70                       | New Elevator Ground Floor          |                                    |
| 215     | 1  |                    |         | 73       | Elevator                |             |                                |          | 70                       | New Elevator First Floor           |                                    |
|         |    | 66                 |         |          | Subtotal 73             |             | 66                             |          | 140                      | Subtotal 73                        | 0                                  |
| 215     | 1  | 174                | 132     | 74       | Vestibule               | NW          | 174                            |          |                          | NW Vestibule                       |                                    |
| 215     | 1  | 174                | 134     | 74       | Vestibule               | NE          | 174                            |          |                          | NE Vestibule                       |                                    |
| 215     | 1  | 174                | 137     | 74       | Vestibule               | SE          | 174                            |          |                          | SE Vestibule                       |                                    |
| 215     | 1  | 174                | 143     | 74       | Vestibule               | SW          | 174                            |          |                          | SW Vestibule                       |                                    |
| 215     | G  |                    |         | 74       | Vestibule               |             |                                |          | 80                       | New Vestibule at Ground Floor      |                                    |
| 215     | 1  |                    |         | 74       | Vestibule               |             |                                |          | 330                      | West Vestibule @ Hospitality Suite |                                    |
|         |    | 696                |         |          | Subtotal 74             |             | 696                            |          | 410                      | Subtotal 74                        |                                    |
|         |    | 8,483              |         |          | Current Heiges 7W TOTAL |             | 11,179                         |          | 8,793                    | Renovated / Addition 7W            | 3,710                              |
| 215     |    |                    |         |          |                         |             | 19,972                         |          |                          | Proposed 7W Combined               |                                    |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code | USE                     | FUNCTION        | Program Area in Existing Bldg |       | Room No. | Program Area in Addition                              | Proposed Program Description | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|----------|-------------------------|-----------------|-------------------------------|-------|----------|---|------------------------------|------------------------------------|
|         |    |                    |         |          |                         |                 |                               |       |          |   |                              |                                    |
| 215     | 1  | 173                | 104     | 81       | Toilet M                | Locker Toilet   |                               | 0     |          |   |                              |                                    |
| 215     | 1  | 44                 | 111     | 81       | Toilet M                | Coach Toilet    |                               | 0     |          |   |                              |                                    |
| 215     | 2  | 315                | 212     | 81       | Toilet M                | Men             |                               |       |          |   |                              |                                    |
| 215     | G  | 97                 | 23      | 81       | Toilet M                | Fitness Toilet  |                               | 97    | 700      | Men's Access Toilet Rm. At Fitness                    | 97                           |                                    |
| 215     | G  |                    |         | 81       | Toilet M                |                 |                               | 225   |          | General Men's Toilet - Locker Rooms                   | 225                          |                                    |
| 215     | 2  |                    |         | 81       | Toilet M                |                 |                               | 160   |          | Men's Toilet Rm. @ 2nd Fl.                            | 160                          |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               | 690   |          | Men's Faculty Locker rm Toilet                        | 690                          |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               |       |          | Men's Arena Restrooms                                 |                              |                                    |
| 215     | G  |                    |         | 81       | Toilet M                |                 |                               |       |          | Men's Toilet Room @ Ground Fl.                        |                              |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               |       |          | Men's Toilet Rm, 1st. @ Large Gym                     |                              |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               |       |          | Men's Toilet Rm, 1st. @ Sports Med.                   |                              |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               | 50    |          | Men's Official Locker rm Toilet                       | 50                           |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               | 45    |          | Men's Toilet Rm. @ Arena Dress Rm.                    | 45                           |                                    |
| 215     | 1  |                    |         | 81       | Toilet M                |                 |                               | 1,267 | 1,385    | Subtotal 81   | 1,267                        |                                    |
| 215     | 1  | 629                |         |          | Subtotal 81             |                 |                               |       |          |   |                              |                                    |
| 215     | 1  | 42                 | 117     | 82       | Toilet F                | Locker Toilet   |                               | 0     |          |   |                              |                                    |
| 215     | 1  | 200                | 119     | 82       | Toilet F                | Women's         |                               | 0     |          |   |                              |                                    |
| 215     | G  | 103                | 4       | 82       | Toilet F                | F Toilet        |                               | 0     |          |   |                              |                                    |
| 215     | G  |                    |         | 82       | Toilet F                |                 |                               |       |          |   |                              |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               | 820   | 700      | General Women's Toilet-Locker Room                    | 820                          |                                    |
| 215     | G  |                    |         | 82       | Toilet F                |                 |                               |       |          | Women's Arena Restrm                                  |                              |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               |       |          | Women's Toilet Rm @ Ground Floor                      |                              |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               |       |          | Women's Toilet Rm, 1st. @ Large Gym                   |                              |                                    |
| 215     | 2  |                    |         | 82       | Toilet F                |                 |                               | 315   | 212      | Women's Toilet Rm @ 2nd Floor                         | 315                          |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               | 50    |          | Women's Official Locker rm Toilet                     | 50                           |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               | 160   |          | Women's Faculty Locker rm Toilet                      | 160                          |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               | 45    |          | Women's T. Rm. @ Arena Dress Rm.                      | 45                           |                                    |
| 215     | 1  |                    |         | 82       | Toilet F                |                 |                               | 80    |          | Women's Access T. Rm. At Fitness                      | 80                           |                                    |
| 215     | 1  | 345                |         |          | Subtotal 82             |                 |                               | 1,470 | 1,385    | Subtotal 82   | 1,470                        |                                    |
| 215     | 1  | 50                 | 109     | 83       | Toilet Unit             | Spts Med Toilet |                               | 0     |          | 0 Eliminated  |                              |                                    |
| 215     |    |                    |         |          | Subtotal 83             |                 |                               | 0     |          | 0   | 0                            |                                    |
| 215     | 1  | 28                 | 118     | 84       | Cust                    | Cust            |                               | 28    | 118      | Custodial Closet                                      | 28                           |                                    |
| 215     | 2  | 46                 | 213     | 84       | Cust                    | Cust            |                               | 46    | 213      | Existing Custodial Closet 2nd Fl                      |                              |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               |       |          | New Custodial Closet @ 1st Fl                         |                              |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               |       |          | New Custodial Closet @ New Toilet Rms                 |                              |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               |       |          | New Custodial Closet @ New Toilet Rms                 |                              |                                    |
| 215     | 1  |                    |         | 84       | Cust                    |                 |                               | 60    |          | Custodial Storage                                     | 60                           |                                    |
| 215     | 1  | 74                 |         |          | Subtotal 84             |                 |                               | 134   | 148      | Subtotal 84   | 88                           |                                    |
| 215     | 1  | 1,738              | 142     | 85       | Maint sto               | Sealing Storage |                               | 1,738 | 142      | Sealing Storage                                       |                              |                                    |
| 215     | 1  | 60                 | 148     | 85       | Maint sto               | Electronics     |                               | 0     |          | To Become Custodial Storage                           |                              |                                    |
| 215     | G  | 107                | 14      | 85       | Maint sto               | MR2 Sto         |                               | 107   | 14       | MR2 Sto   |                              |                                    |
| 215     | 1  | 18                 | 102     | 85       | Maint Sto               | Sto Pool Vac    |                               | 18    | 102      | Sto Pool Vac  |                              |                                    |
| 215     | G  |                    |         | 85       | Maint Sto               |                 |                               |       |          | New Maintenance Storage                               |                              |                                    |
| 215     | 1  |                    |         | 85       | Maint Sto               |                 |                               |       |          | Misc. Building Storage                                |                              |                                    |
| 215     | 1  | 1,923              |         |          | Subtotal 85             |                 |                               | 1,863 | 475      | Subtotal 85   | 0                            |                                    |
| 216     |    | 3,021              |         |          | Current Heiges 8X TOTAL |                 |                               | 4,734 | 8,084    | 3,350 Renovated / Addition 8X<br>Proposed 8X Combined | 2,825                        |                                    |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

DATE: 8/4/00  
Printed on 8/4/00

| Bldg NO | FL  | Current Floor Area | Room NO | Use Code                | USE               | FUNCTION                     | Program Area in Existing Bldg | Room No. | Program Area in Addition | Proposed Program Description   | Exist'g Area Requiring Renovation |
|---------|-----|--------------------|---------|-------------------------|-------------------|------------------------------|-------------------------------|----------|--------------------------|--|-----------------------------------|
| 215     | G   | 725                | 18      | 91                      | Mach              | Elect                        | 725                           |          | 300                      | Electrical Rm in addition, Grd. Fl.  |                                   |
| 215     | G   |                    |         | 91                      | Mach              |                              |                               |          |                          | Electric Closet @ 2nd Fl.  | 90                                |
| 215     | G   |                    |         | 91                      | Mach              |                              | 90                            |          | 120                      | Tele/Com Rm. Gnd. Fl.  |                                   |
| 215     | G   |                    |         | 91                      | Mach              |                              |                               |          | 120                      | Tele/Com Rm. 1st Fl.   |                                   |
| 215     | G   |                    |         | 91                      | Mach              |                              | 96                            |          | 540                      | Tele/Com Rm. 2nd Fl.   | 96                                |
| 215     | G   |                    |         | 91                      | Mach              |                              | 911                           |          |                          | Subtotal 91  | 188                               |
| 215     | G   | 725                |         | Subtotal 91             |                   |                              |                               |          |                          |  |                                   |
| 215     | 1   | 169                | 133A    | 92                      | Mach              | North Slo                    | 169                           |          |                          | North Slo  |                                   |
| 215     | 1   | 512                | 133B    | 92                      | Mach              | North Slo                    | 512                           |          |                          | North Slo  |                                   |
| 215     | 1   | 522                | 133C    | 92                      | Mach              | North Slo                    | 522                           |          |                          | North Slo  |                                   |
| 215     | 1   | 183                | 133D    | 92                      | Mach              | North Slo                    | 183                           |          |                          | North Slo  |                                   |
| 215     | 1   | 272                | 136A    | 92                      | Mach              | Cust Slo                     | 0                             |          |                          | To Become Food Concession  |                                   |
| 215     | 1   | 426                | 136B    | 92                      | Mach              | S Slo                        | 426                           |          |                          | S Slo  |                                   |
| 215     | 1   | 715                | 136C    | 92                      | Mach              | S Slo                        | 715                           |          |                          | S Slo  |                                   |
| 215     | 1   | 394                | 139     | 92                      | Mach              | W Mech Rm                    | 394                           |          |                          | W Mech Rm  |                                   |
| 215     | 2   | 153                | 202     | 92                      | Mach              | Above 175A                   | 153                           |          |                          | Above 175A   |                                   |
| 215     | 2   | 22                 | 211     | 92                      | Mach              | Mechanical                   | 60                            |          |                          | Mech. Access to Roof from Corr.  | 48                                |
| 215     | G   | 1,061              | 214     | 92                      | Mach              | Mech                         | 1,061                         |          |                          | Mech   |                                   |
| 215     | G   | 1,567              | 1       | 92                      | Mach              | Mech                         | 1,567                         |          |                          | Mech   |                                   |
| 215     | G   | 192                | 7       | 92                      | Mach              | Mech                         | 192                           |          |                          | Mech   |                                   |
| 215     | G   | 413                | 09A     | 92                      | Mach              | Behind Pool space in Fitness | 413                           |          |                          | Behind Pool space in Fitness   |                                   |
| 215     | G   | 18                 | 15      | 92                      | Mach              | space in Fitness             | 18                            |          |                          | space in Fitness   |                                   |
| 215     | G   | 133                | GH4     | 92                      | Mach              | NW 20                        | 133                           |          |                          | NW 20  |                                   |
| 215     | G   |                    |         | 92                      | Mach              |                              |                               |          |                          | Mechanical Rm in addition, Grd. Fl.  |                                   |
| 215     | G   |                    |         | 92                      | Mach              |                              |                               |          |                          | Mechanical Rm for Large Gym  |                                   |
| 215     | 1   |                    |         | 92                      | Mach              |                              |                               |          |                          | 880 Mech. Rm. 1st Fl. Adj. Pool  |                                   |
| 215     | 1   |                    |         | 92                      | Mach              |                              |                               |          |                          | 75 Mech Chase at Small Gym   |                                   |
| 215     | 1   |                    |         | 92                      | Mach              |                              |                               |          |                          | 3,230 Subtotal 92  | 48                                |
| 215     | G   | 6,752              |         | Subtotal 92             |                   |                              | 6,516                         |          |                          |  |                                   |
| 215     | G   | 119                | 11      | 93                      | Elevator          | Elev Machine                 | 119                           | 11       | 48                       | Elevator machine room  |                                   |
| 215     | G   |                    |         | 93                      | Elevator          |                              |                               |          | 48                       | New Elevator Mach. Rm.   |                                   |
| 215     | G   |                    |         | 93                      | Elevator          |                              |                               |          | 48                       | Subtotal 93  | 0                                 |
| 215     | G   | 119                |         | Subtotal 93             |                   |                              | 119                           |          |                          |  |                                   |
| 215     | G   | 7,596              |         | Current Heiges 9Y TOTAL |                   |                              | 7,548                         |          | 3,618                    | Renovated // Addition 9Y   | 234                               |
| 215     | All | 4,741              |         | ZZ                      | Heiges Structural |                              | 7,619                         | 11,366   | 2,075                    | Proposed 9Y Combined Balance of Structure & walls (as Calculated on Page 10) |                                   |
| 215     | All | 4,741              |         |                         |                   |                              | 7,619                         | 9,694    | 2,075                    | Proposed Structural Total  | 0                                 |
| 215     | All | 19,100             |         | Current Heiges NON-ASF  |                   |                              | 23,461                        | 39,422   | 15,961                   | Renovated // Add. NON-ASF Proposed Combined NON-ASF                          | 6,769                             |
| 215     | All |                    |         |                         |                   |                              |                               |          |                          | Area of Existing Being Renovated   |                                   |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

| Bldg NO                          | FL | Current Floor Area | Room NO | Use Code | USE                | FUNCTION             | Program               |                  | Room No. | Program Area In Addition              | Proposed Program Description | Existing Area Requiring Renovation |
|----------------------------------|----|--------------------|---------|----------|--------------------|----------------------|-----------------------|------------------|----------|---------------------------------------|------------------------------|------------------------------------|
|                                  |    |                    |         |          |                    |                      | Area In Existing Bldg | Area In Addition |          |                                       |                              |                                    |
| <b>ASSIGNABLE SQUARE FOOTAGE</b> |    |                    |         |          |                    |                      |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 1,194              | 220     | 110      | Classrm            | ROTC                 |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 1,194              | 230     | 110      | Classrm            | Phys Ed              |                       |                  |          |                                       |                              |                                    |
| 215                              |    | 2,388              |         |          | Current Helges 100 | Total                | 0                     | 0                | 0        | Renovated / Addition 100              | 0                            | 0                                  |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | Proposed Combined 100                 |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 800 H&PE Lab                          |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 800 H&PE Lab                          |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 800 H&PE Lab                          |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 200 Lab Storage H&PE                  |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 200 Lab Storage H&PE                  |                              |                                    |
| 215                              | 1  |                    |         | 200      | Laboratory         |                      |                       |                  |          | 200 Lab Storage H&PE                  |                              |                                    |
| 215                              |    | 0                  |         |          | Current Helges 200 | Total                | 0                     | 4,000            | 4,000    | Renovated / Addition 200              | 0                            | 0                                  |
| 215                              |    |                    |         |          | Assoc Dir          |                      |                       |                  |          | Proposed Combined 200                 |                              |                                    |
| 215                              | 1  | 126                | 125     | 305      | Fac Off            |                      |                       |                  |          |                                       |                              |                                    |
| 215                              | 1  | 70                 | 165     | 305      | Fac Off            | Asst Coach           |                       |                  |          |                                       |                              |                                    |
| 215                              | 1  | 126                | 135     | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 1  | 126                | 145     | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 1  | 126                | 155     | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 1  | 153                | 175A    | 305      | Fac Off            | Swim Coach           | 153                   | 175A             |          | Swim Coach                            |                              |                                    |
| 215                              | 2  | 115                | 215     | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 115                | 215A    | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 135                | 205     | 305      | Fac Off            | Coach, Wrestling     |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 248                | 210     | 305      | Fac Off            | Coach, Head Football | 248                   | 210              |          | Coach, Head Football                  |                              |                                    |
| 215                              | G  | 104                | 20A     | 305      | Fac Off            | Coach                |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 504                | 231A    | 305      | Fac Off            | (5) Asst Coaches FB  | 515                   | 231A             |          | (5) Asst. Coaches FB                  | 450                          | 450                                |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      | 450                   |                  |          | (3) Coaches Offices 1st Fl            | 480                          | 480                                |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      | 480                   |                  |          | (4) Asst. Coaches Offices 1st Fl      | 150                          | 150                                |
| 215                              | G  |                    |         | 305      | Fac Off            |                      | 150                   |                  |          | (1) Coach Office Gnd. Fl. @ Lockers   | 120                          | 120                                |
| 215                              | G  |                    |         | 305      | Fac Off            |                      | 120                   |                  |          | (1) Asst. Coaches Offices Gnd Fl      | 1950                         | 1950                               |
| 215                              | 2  |                    |         | 305      | Fac Off            |                      | 1,950                 |                  |          | (13) Coaches Offices 2nd Fl. Exist'g  | 1200                         | 1200                               |
| 215                              | 2  |                    |         | 305      | Fac Off            |                      | 1,200                 |                  |          | (10) Asst. Coaches 2nd Fl. Exist'g    |                              |                                    |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      |                       |                  | 480      | (4) Asst. Coaches 1st Fl. New         |                              |                                    |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      |                       |                  | 150      | Wrestling Coach adj. to Wrestling Rm  |                              |                                    |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      |                       |                  | 120      | Asst. Wrestling Coach @ Wrestling R   |                              |                                    |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      |                       |                  | 1,050    | (7) H&PE Faculty 1st. Fl. New         |                              |                                    |
| 215                              | 1  |                    |         | 305      | Fac Off            |                      |                       |                  | 1,800    | Subtotal 305                          |                              | 4,350                              |
| 215                              |    | 1,948              |         |          | 305 Total          |                      | 5,266                 |                  |          |                                       |                              |                                    |
| 215                              | 2  | 14                 | 208     | 310      | Fac Off Svc        | Closet in 205        |                       |                  |          |                                       |                              |                                    |
| 215                              | 2  | 14                 | 209     | 310      | Fac Off Svc        | Closet in 215A       |                       |                  |          |                                       |                              |                                    |
| 215                              | G  | 30                 | 16      | 310      | Fac Off Svc        | Fitness Closet       | 30                    | 16               |          | Closet in Assist. Coach's Office      |                              |                                    |
| 215                              | 1  |                    |         | 310      | Fac Off Svc        |                      |                       |                  |          | Fac/Off Svc Athletics-1st Fl @ Recep. | 80                           | 80                                 |
| 215                              | 1  |                    |         | 310      | Fac Off Svc        |                      |                       |                  |          | Fac/Off Svc Athletics-1st Fl @ Elev.  | 220                          | 220                                |
| 215                              | 1  |                    |         | 310      | Fac Off Svc        |                      |                       |                  | 242      | Fac/Off Svc H&PE - New                |                              |                                    |
| 215                              |    | 68                 |         |          | 310 Total          |                      | 330                   |                  | 242      | Subtotal 310                          |                              | 300                                |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
 SPACE PROGRAM

| Bldg NO | FL | Current Floor Area | Room NO | Use Code                 | USE        | FUNCTION       | Program Area in Existing Bldg |                  | Room No.              | Program Area in Addition       | Proposed Program Description | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|--------------------------|------------|----------------|-------------------------------|------------------|-----------------------|--------------------------------|------------------------------|------------------------------------|
|         |    |                    |         |                          |            |                | Area in Existing Bldg         | Area in Addition |                       |                                |                              |                                    |
| 215     | 1  | 229                | 105     | 315                      | Admin      | Dir Ath        | 0                             |                  |                       |                                |                              |                                    |
| 215     | 1  | 68                 | 107     | 315                      | Admin      | Sports Med Off | 0                             |                  |                       |                                |                              |                                    |
| 215     | 1  | 150                | 100A    | 315                      | Admin      | Sports Med Off | 0                             |                  |                       |                                |                              |                                    |
| 215     | 1  |                    |         | 315                      | Admin      |                | 200                           |                  |                       | Dir Ath                        | 200                          |                                    |
| 215     | 1  |                    |         | 315                      | Admin      |                | 150                           |                  |                       | Assoc Dir                      | 150                          |                                    |
| 215     | 1  |                    |         | 315                      | Admin      |                |                               |                  | 150                   | Dir SpL Med                    |                              |                                    |
| 215     | 1  |                    |         | 315                      | Admin      |                |                               |                  | 150                   | H&PE Chair                     |                              |                                    |
| 215     | 1  | 447                |         | 315 Total                |            |                | 350                           |                  | 300                   | Subtotal 315                   | 350                          |                                    |
| 215     | 1  | 214                | 105A    | 325                      | Clerical   | Dir Secy       | 0                             |                  |                       |                                |                              |                                    |
| 215     | 1  | 41                 | 185     | 325                      | Clerical   | Mail Room      | 0                             |                  |                       |                                |                              |                                    |
| 215     | 2  | 619                | 231     | 325                      | Clerical   | Ft ball Secy   | 288                           | 231              |                       | Ft ball Secy                   |                              |                                    |
| 215     | 1  |                    |         | 325                      | Clerical   |                | 315                           |                  |                       | Sec/Reception Ath              | 315                          |                                    |
| 215     | 1  |                    |         | 325                      | Clerical   |                |                               |                  | 270                   | Sec/Reception H&PE in New Area |                              |                                    |
| 215     | 2  |                    |         | 325                      | Clerical   |                | 275                           |                  |                       | Sec/Reception SB               | 275                          |                                    |
| 215     | 2  |                    |         | 325                      | Clerical   |                | 275                           |                  |                       | Sec/Reception BB               | 275                          |                                    |
| 215     | 2  | 874                |         | 325 Total                |            |                | 1,153                         |                  | 270                   | Subtotal 325                   | 865                          |                                    |
| 215     | G  | 105                | 13      | 335                      | Grad Asst  | Fitness Ctr    | 0                             |                  | 0                     | Subtotal 335                   | 0                            |                                    |
| 215     | 1  | 127                | 115     | 365                      | Conf Rm    | Conf Rm - DoA  | 0                             |                  |                       | Conf Rm FB                     |                              |                                    |
| 215     | 2  | 149                | 216     | 365                      | Conf Rm    | Conf Rm FB     | 149                           | 216              |                       | Conf Rm Ath                    | 255                          |                                    |
| 215     | 1  |                    |         | 365                      | Conf Rm    |                | 255                           |                  |                       | Conf Rm SB                     | 150                          |                                    |
| 215     | 2  |                    |         | 365                      | Conf Rm    |                | 150                           |                  |                       | Conf Rm BB                     | 150                          |                                    |
| 215     | 2  |                    |         | 365                      | Conf Rm    |                | 150                           |                  |                       | Conf Rm H&PE, New              | 150                          |                                    |
| 215     | 1  | 276                |         | 365 Total                |            |                | 704                           |                  | 250                   | Subtotal 365                   | 555                          |                                    |
| 215     |    | 3,768              |         | Current Heiges 300 TOTAL |            |                | 7,403                         |                  | 2,862                 | Renovated / Addition: 300      | 6,420                        |                                    |
| 215     |    |                    |         |                          |            |                | 40,665                        |                  | Proposed Combined 300 |                                |                              |                                    |
| 215     | 1  | 7,140              | 175     | 520A                     | Ath-PE-Int | Swim Pool      | 7,140                         |                  |                       | Swim Pool                      |                              |                                    |
| 215     | 1  | 33,832             | 138     | 520A                     | Ath-PE-Int | Arena          | 33,832                        |                  |                       | Arena                          |                              |                                    |
| 215     | 2  | 3,570              | 200     | 520A                     | Ath-PE-Int | Wrestling      |                               |                  |                       | Squash                         |                              |                                    |
| 215     | G  | 594                | 10A     | 520A                     | Ath-PE-Int | Squash         | 594                           |                  |                       | Squash                         |                              |                                    |
| 215     | G  | 594                | 10B     | 520A                     | Ath-PE-Int | Squash         | 594                           |                  |                       | Squash                         |                              |                                    |
| 215     | G  | 594                | 10C     | 520A                     | Ath-PE-Int | Squash         | 594                           |                  |                       | Squash                         |                              |                                    |
| 215     | G  | 594                | 10D     | 520A                     | Ath-PE-Int | Squash         | 594                           |                  |                       | Squash                         |                              |                                    |
| 215     | G  | 5,694              | 20      | 520A                     | Ath-PE-Int | Fitness Ctr    |                               |                  | 5,700                 | Fitness Center                 |                              |                                    |
| 215     | G  |                    |         | 520A                     | Ath-PE-Int |                |                               |                  | 3,570                 | Wrestling                      |                              |                                    |
| 215     | 1  |                    |         | 520A                     | Ath-PE-Int |                |                               |                  | 9,193                 | Large Gym                      |                              |                                    |
| 215     | 1  |                    |         | 520A                     | Ath-PE-Int |                |                               |                  | 1,400                 | Small Gym                      |                              |                                    |
| 215     | 1  |                    |         | 520A                     | Ath-PE-Int |                |                               |                  | 850                   | Multi-Purpose Athletic Space   |                              |                                    |
| 215     | 1  | 52,612             |         | 520A Total               |            |                | 43,348                        |                  | 20,713                | Subtotal 520A                  | 0                            |                                    |

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| Bldg NO | FL | Current Floor Area | Room ND | Use Code                  | USE          | FUNCTION         | Program Area In Existing Bldg | Room No. | Program Area In Addition | Proposed Program Description           | Existing Area Requiring Renovation |
|---------|----|--------------------|---------|---------------------------|--------------|------------------|-------------------------------|----------|--------------------------|--|------------------------------------|
| 215     | 1  | 756                | 138N    | 520B                      | Ath Seat-Int | N Bleach         | 756                           |          |                          | North Bleachers                        |                                    |
| 215     | 1  | 756                | 138S    | 520B                      | Ath Seat-Int | S Bleach         | 756                           |          |                          | South Bleachers                        |                                    |
|         |    | 1,512              |         | 520B Total                |              |                  | 1,512                         |          | 0                        | Subtotal 520B                          | 0                                  |
| 215     | 1  | 18                 | 103     | 520C                      | Ath Svc-Int  | Swim Slo         | 18                            |          |                          | Swim Slo                               |                                    |
| 215     | 1  | 859                | 108     | 520C                      | Ath Svc-Int  | M Varsity Locker |                               |          |                          |  |                                    |
| 215     | 1  | 44                 | 112     | 520C                      | Ath Svc-Int  | Coach Shower     |                               |          |                          |  |                                    |
| 215     | 1  | 171                | 113     | 520C                      | Ath Svc-Int  | Coach Locker     |                               |          |                          |  |                                    |
| 215     | 1  | 398                | 116     | 520C                      | Ath Svc-Int  | F Varsity Locker |                               |          |                          |  |                                    |
| 215     | 1  | 63                 | 116A    | 520C                      | Ath Svc-Int  | Slo              |                               |          |                          |  |                                    |
| 215     | 1  | 377                | 121     | 520C                      | Ath Svc-Int  | Equip Rm         |                               |          |                          |  |                                    |
| 215     | 1  | 1,881              | 127     | 520C                      | Ath Svc-Int  | M Locker         |                               |          |                          |  |                                    |
| 215     | 1  | 599                | 144     | 520C                      | Ath Svc-Int  | M Shower         |                               |          |                          |  |                                    |
| 215     | G  | 466                | 3       | 520C                      | Ath Svc-Int  | F Locker         |                               |          |                          |  |                                    |
| 215     | G  | 107                | 6       | 520C                      | Ath Svc-Int  | F Shower         |                               |          |                          |  |                                    |
| 215     | G  | 408                | 9       | 520C                      | Ath Svc-Int  | Laundry          | 1,200                         |          |                          | Laundry - enlarged                     | 1,200                              |
| 215     | 1  | 66                 | 114     | 520C                      | Ath Svc-Int  | Trophy case      | 66                            |          |                          | Trophy case                            |                                    |
| 215     | G  | 60                 | 24      | 520C                      | Ath Svc-Int  | Fitness Slo      |                               |          |                          |  |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 400                      | Equipment Issue Rms, Men               |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 1,200                    | Men's General Locker Room              |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 1,400                    | Men's Shared Shower Room               |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 2,000                    | Men's Team Locker Rooms (5)            |                                    |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 140                           |          |                          | Men's Faculty Locker Rm Showers        | 140                                |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 250                           |          |                          | Men's Faculty Locker Room              | 250                                |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 44                            |          |                          | Men's Officials Locker Rm Showers      | 44                                 |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 171                           |          |                          | Men's Officials Locker Room            | 171                                |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  | 210                           |          | 190                      | Equipment Issue Rms, Women             |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  | 1,100                         |          | 100                      | Women's General Locker Room            |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 1,400                    | Women's Shared Shower Room             |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  | 2,000                         |          |                          | Women's Team Locker Rooms (5)          |                                    |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 140                           |          |                          | Women's Faculty Locker Rm Showers      | 140                                |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 250                           |          |                          | Women's Faculty Locker Room            | 250                                |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 40                            |          |                          | Women's Officials Locker Rm Showers    | 40                                 |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  | 200                           |          |                          | Women's Officials Locker Room          | 200                                |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 150                      | Small Gym Storage                      |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 110                      | Storage, Misc. @ Wrestling Rm.         |                                    |
| 215     | 2  |                    |         | 520C                      | Ath Svc-Int  |                  | 93                            |          |                          | Storage, Misc. @ Ath. Off. 2nd Fl. (N) | 93                                 |
| 215     | 2  |                    |         | 520C                      | Ath Svc-Int  |                  | 45                            |          |                          | Storage, Misc. @ Ath. Off. 2nd Fl. (S) | 45                                 |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 325                      | Storage, Misc. @ Ath. 1st Fl.          |                                    |
| 215     | G  |                    |         | 520C                      | Ath Svc-Int  |                  | 40                            |          |                          | Storage, Misc. @ New Elev., Gnd. Fl.   |                                    |
| 215     | 1  |                    |         | 520C                      | Ath Svc-Int  |                  |                               |          | 800                      | H&PE slo at New Gym                    |                                    |
| 215     | 2  |                    |         | 520C                      | Ath Svc-Int  |                  | 31                            |          |                          | Storage, Misc. Ath. @ Pool Entry       | 31                                 |
|         |    | 5,517              |         | 520C Total                |              |                  | 6,038                         |          | 8,075                    | Subtotal 520C                          | 2,573                              |
| 215     |    | 59,641             |         | Current Heigoes 520 Total |              |                  | 60,898                        |          | 28,788                   | Renovated / Addition 520               | 2,573                              |
|         |    |                    |         |                           |              |                  |                               |          | 79,686                   | Proposed Combined 520                  |                                    |

**SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3**  
**SPACE PROGRAM**

| Bldg NO    | FL | Current Floor Area | Room NO | Use Code | USE                             | FUNCTION     | Program Area In |   | Room No.       | Program Area In Addition     | Proposed Program Description            | Existing Area Requiring Renovation |
|------------|----|--------------------|---------|----------|---------------------------------|--------------|-----------------|---|----------------|------------------------------|---|------------------------------------|
|            |    |                    |         |          |                                 |              | Existing Bldg   | 0 |                |                              |   |                                    |
| 215        | 1  | 610                | 108     | 540      | Clinic                          | Sports Med   |                 |   |                |                              |   |                                    |
| 215        | 1  | 1,446              | 100     | 540      | Clinic                          | Sports Med   |                 |   |                | 1,000                        | Sp Med Trng Rm                          |                                    |
| 215        | 1  |                    |         | 540      | Clinic                          |              |                 |   |                | 1,500                        | Sp Med Rehab Rm                         |                                    |
| 215        | 1  |                    |         | 540      | Clinic                          |              |                 |   |                | 2,500                        | Renovated / Addition 540                | 0                                  |
| <b>215</b> |    | <b>2,056</b>       |         |          | <b>Current Heiges 540</b>       | <b>TOTAL</b> | <b>0</b>        |   | <b>2,500</b>   | <b>Proposed Combined 540</b> |   | <b>0</b>                           |
| 215        | 1  |                    |         | 600      | Assembly                        |              |                 |   |                | 1,450                        | Corporate Hospitality Suite             | 710                                |
| 215        | 1  |                    |         | 600      | Assembly                        |              | 710             |   |                |                              | Dressing Rooms                          | 730                                |
| 215        | 1  |                    |         | 600      | Assembly                        |              | 730             |   |                |                              | Additional Arena Equip. Stor. (West)    |                                    |
| 215        | 1  |                    |         | 600      | Assembly                        |              |                 |   |                | 480                          | Arena Electronic Equip. Storage         |                                    |
| 215        | 1  |                    |         | 600      | Assembly                        |              | 150             |   |                |                              | Arena Box Office and Concession         | 150                                |
| 215        | 1  |                    |         | 600      | Assembly                        |              | 272             |   | 136A           |                              | Food Concession at Arena                | 233                                |
| <b>215</b> |    | <b>0</b>           |         |          | <b>Current Heiges 600</b>       | <b>TOTAL</b> | <b>1,862</b>    |   | <b>3,792</b>   | <b>1,930</b>                 | <b>Renovated / Addition 600</b>         | <b>1,923</b>                       |
|            |    |                    |         |          |                                 |              |                 |   |                |                              | <b>Proposed Combined 600</b>            |                                    |
| <b>215</b> |    | <b>67,793</b>      |         |          | <b>Current Heiges TOTAL ASF</b> |              | <b>60,563</b>   |   | <b>100,643</b> | <b>40,080</b>                | <b>Renovated / Addition ASF</b>         | <b>10,816</b>                      |
|            |    |                    |         |          |                                 |              |                 |   |                |                              | <b>Proposed Combined ASF</b>            |                                    |
|            |    |                    |         |          |                                 |              |                 |   |                |                              | <b>Area of Existing Being Renovated</b> |                                    |



SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

| Bldg NO                         | Current Floor Area | Room NO | Use Code                               | USE | FUNCTION | Program Area in Existing Bldg | Room No. | Program Area in Addition | Proposed Program Description           | Existing Area Requiring Renovation |
|---------------------------------|--------------------|---------|--|-----|----------|-------------------------------|----------|--------------------------|--|------------------------------------|
| <b>SUMMARY OF SPACE PROGRAM</b> |                    |         |  |     |          |                               |          |                          |  |                                    |
| <b>Existing Building</b>        |                    |         |  |     |          |                               |          |                          |  |                                    |
|                                 |                    |         |  |     |          |                               |          |                          | <b>USE CODE</b>                        | <b>Combined Use</b>                |
|                                 |                    |         |  |     |          | <b>Non- Assignable Area</b>   |          |                          |  |                                    |
|                                 | 8,483              | +       | 7W Total - Circulation                 |     |          | 11,179                        | +        | 8,793                    | 7W Total - Circulation                 | 19972                              |
|                                 | 3,021              | +       | 8X Total - Building Services           |     |          | 4,734                         | +        | 3,350                    | 8X Total - Building Services           | 8084                               |
|                                 | 7,596              | +       | 9Y Total - Mechanical Services         |     |          | 7,548                         | +        | 3,818                    | 9Y Total - Mechanical Services         | 11366                              |
|                                 | 19,100             | =       | SUBTOTAL NON-ASF (w/o Structural)      |     |          | 23,461                        | =        | 15,961                   | SUBTOTAL NON-ASF (w/o Structural)      | 39422                              |
|                                 | 4,741              | +       | ZZ Total - Structural                  |     |          | 7,619                         | +        | 2,075                    | ZZ Total - Structural                  | 8694                               |
|                                 | 23,841             | =       | TOTAL NON-ASF                          |     |          | 31,080                        | =        | 18,036                   | TOTAL NON-ASF                          | 49116                              |
|                                 |                    |         |  |     |          | <b>Assignable Area</b>        |          |                          |  |                                    |
|                                 | 2,388              | +       | 100 Total - Classrooms                 |     |          | 0                             | +        | 0                        | 100 Total - Classrooms                 | 0                                  |
|                                 | 0                  | +       | 200 Total - Laboratory                 |     |          | 0                             | +        | 4,000                    | 200 Total - Laboratory                 | 4000                               |
|                                 | 3,708              | +       | 300 Total - Office/Conference          |     |          | 7,803                         | +        | 2,862                    | 300 Total - Office/Conference          | 10665                              |
|                                 | 59,641             | +       | 520 Total - Athletic/Physical (Indoor) |     |          | 50,898                        | +        | 28,788                   | 520 Total - Athletic/Physical (Indoor) | 79686                              |
|                                 | 2,056              | +       | 540 Total - Clinic                     |     |          | 0                             | +        | 2,500                    | 540 Total - Clinic                     | 2500                               |
|                                 | 0                  | +       | 600 Total - Assembly                   |     |          | 1,862                         | +        | 1,930                    | 600 Total - Assembly                   | 3792                               |
|                                 | 67,793             | =       | TOTAL ASF                              |     |          | 60,563                        | =        | 40,080                   | TOTAL ASF                              | 100643                             |
|                                 |                    |         |  |     |          | <b>Net Usable Area</b>        |          |                          |  |                                    |
|                                 | 67,793             | +       | Total Assignable                       |     |          |                               |          |                          | Net Usable Area (Addition)             |                                    |
|                                 | 19,100             | +       | Total Non-Assignable                   |     |          |                               |          |                          | 40,080 + Total Assignable              |                                    |
|                                 | 86,893             | =       | Net Usable Area                        |     |          |                               |          |                          | 15,961 + Total Non-Assignable          |                                    |
|                                 |                    |         |  |     |          |                               |          |                          | 56,041 = Net Usable Area               |                                    |

SU - 711 HEIGES FIELD HOUSE ADDITION - Scheme 3  
SPACE PROGRAM

DATE: 8/4/00  
Printed on 8/4/00

| Bldg NO | Current Floor Area                              | Room NO | Use Code | USE   | FUNCTION        | Program Area In |                                     | Proposed Program Description            | Existing Area Requiring Renovation |  |
|---------|---|---------|----------|---|-----------------|-----------------|-------------------------------------|---|------------------------------------|--|
|         |   |         |          |   |                 | Existing Bldg   | Room No. Addition                   |   |                                    |  |
|         | Gross Area                                      |         |          |   |                 | 23,481          |                                     |   |                                    |  |
|         | 19,100  | +       |          | Heiges Total NON-ASF (existing)   |                 |                 | + Heiges TOTAL NON-ASF (renovated)  |   |                                    |  |
|         | 67,793  | +       |          | Heiges Total ASF (existing)   |                 | 60,563          | + Heiges Total ASF (renovated)      |   |                                    |  |
|         | 4,741   | +       |          | Heiges Structural Area (existing)   |                 | 7,619           | + Heiges Structural Area            |   |                                    |  |
|         | 91,634  | =       |          | Heiges GROSS AREA, Sq Ft (exist.)   |                 | 91,634          | = Heiges GROSS AREA, Sq Ft (exist.) |   |                                    |  |
|         | Gross Area divided by Assignable equals         |         |          |   |                 |                 |                                     |   |                                    |  |
|         | Gross Square Foot Factor (Existing Heiges)      |         |          |   |                 | 91,634          | = 1.51                              | Renovated Area Factor                   |                                    |  |
|         | 67,793  |         |          | 1.35  | Existing Factor | 60,563          |                                     |   |                                    |  |
|         | Gross Area of Add. = 1.45 times Assignable Area |         |          |   |                 |                 |                                     |   |                                    |  |
|         |   |         |          |   |                 |                 | 1.45                                | SSHE Standard Area Factor               |                                    |  |
|         |   |         |          |   |                 |                 | 40,080                              | X Assignable Area of Addition           |                                    |  |
|         |   |         |          |   |                 |                 | 58,116                              | = Gross Area of Add. (See Note 1 Below) |                                    |  |
|         |   |         |          |   |                 |                 |                                     | Structural Area                         |                                    |  |
|         |   |         |          |   |                 |                 | 58,116                              | + Gross Area                            |                                    |  |
|         |   |         |          |   |                 |                 | 56,041                              | = Net Usable Area                       |                                    |  |
|         |   |         |          |   |                 |                 | 2,075                               | = Structural Area                       |                                    |  |
|         | <b>Combined Building Areas</b>                  |         |          |   |                 |                 |                                     |   |                                    |  |
|         |   |         |          |   |                 |                 | 39,422                              | + Total Non-Assignable                  |                                    |  |
|         |   |         |          |   |                 |                 | 100,643                             | + Total Assignable                      |                                    |  |
|         |   |         |          |   |                 |                 | 9,694                               | + Structural Area                       |                                    |  |
|         |   |         |          |   |                 |                 | 149,759                             | = Gross Area Combined                   |                                    |  |
|         | NOTES:  | 1       |          | NEW BUILDING GROSS AREA IS CALCULATED BY TAKING PROGRAMMED ASSIGNABLE AREA AND MULTIPLYING BY THE SSHE STANDARD FACTOR 1.45 |                 |                 |                                     |   |                                    |  |