

18 FEBRUARY 2005

FACILITY STUDY – SU 2004/15
Facilities Detailed Project Planning Document
DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY PA

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1.00 PURPOSE AND GOAL

Shippensburg University faces the necessity of making decisions regarding the continued use of Dauphin Humanities Center as a major classroom building on campus. This Study will address the part of the building presently used by the English, History/Philosophy, and Speech/Theatre Arts Departments (MCT/Dauphin Addition is not part of this Study), with respect to requirements to comply with the Americans with Disabilities Act (ADA) and other code compliance, aesthetic upgrading, interior environmental improvements, technology enhancements, and upgrades to building systems/maintenance standards to extend the useful life of the facility for 35 years. Included in the scope of the renovations are the necessary improvements to meet educational requirements for the proposed academic curriculum. The University commissioned **EI Associates** to prepare a study aimed at assembling data in order that it could make some decisions concerning the direction of alteration and addition work required to update Dauphin Humanities Center.

This Study constitutes a representation of the conditions, which were investigated during the field survey and review of related construction documents. The intent of the survey and review was to allow for the analysis and recommendations for a **design solution**, required commitment of improvement funds for **project budget**, and possible time line for **project schedule**. This document serves as the facilities detailed project-planning document, as required by the State System of High Education (SSHE).

The goal of this report is to provide the University with the necessary information so that it can provide a facility, which meets current standards of quality, guarantees access for the physically challenged, and operates as efficiently as possible. The goal is to develop a comprehensive scope for the renovations, to be funded through the Commonwealth budget.

2.00 RECOMMENDATIONS

2.1 DESCRIPTION OF SELECTION OPTIONS

2.1.1 REQUIREMENT FOR PROJECT (Academic program mission support)

This Project addresses the original four-story facility built in 1970, as part of the new academic quad. The building has undergone minor renovations over the years and the Mathematics and Computing Technology Center (MCT/Dauphin Addition) was added in 1996. This addition increased the building to 86,653 gross sq. ft. The building has served as a major classroom facility since its original construction. As mentioned earlier, the Addition is not part of this Study.

The original building currently houses the English, History/Philosophy, and Speech/Theatre/Arts Departments. However, the classrooms are used for campus-wide needs and approximately 8,846 students are taught in this building each semester. The building is used continuously through out the year for both day and night classes for 309 sections for core and degree courses. Instructional productivity will improve with technology enhancements; however, the student/faculty ratio will remain the same.

According to the University Facilities Master Plan, the parking area between Dauphin Humanity Center and Wright Hall is to be removed, as well as the access road from Dauphin Drive to this parking area. This parking area is to be replaced with a new parking area located between MCT/Dauphin Addition and Grove Hall, providing parking for both of these buildings, as well as adjacent residential halls. The Master Plan also proposed an upgraded entrance to the Lehman Academic Quad. These elements are to be included in this project to the extent funds are available. The 47,876 GSF original facility has a first floor entrance on the south end of the building facing Franklin Drive and provides a handicapped accessible entrance to the building. In addition, there are two entrances to the west side of the building facing Wright Hall, which currently are not handicapped accessible. The entrance on the east side of the building serves as the main entrance to the MCT/Dauphin Addition and is shared as another handicapped accessible entrance to Dauphin Humanity Center.

The building has received minor alterations over the years; however, after almost 34 years of continuous use, the majority of the building and equipment are in their original condition. The building roof was replaced in 2003, and the building's chiller plant is connected in loop fashion with Shippen, Luhrs, and Franklin Science Center.

The scope of the proposed work is to modernize and replace in kind the existing building systems for a 35-year life. Most functions and room uses currently located in the original building are anticipated to remain, except for relocation of three faculty offices on the ground floor, so that area can be converted back to an original classroom. A small addition is proposed to accommodate the Dean of Arts and Sciences, three faculty offices, IDF closets, student lounge, and Internet cafe.

2.1.2 NATURE OF THE PROJECT (Describe the basic characteristics and summary of the project.)

Among the various facilities' deficiencies, this project will correct the following:

- Correct ADA deficiencies in lecture room, elevator, and toilet rooms, as well as address handicapped access and egress to the building, and all occupied spaces
- Replace all toilet partitions to up-to-date maintenance free standards
- Paint interior and exterior
- Abate radon
- Remove and replace aging sprayed on asbestos fireproofing
- Renovation of floor and wall finishes
- Replace exterior window system and exterior doors
- Replace all acoustical tile ceiling systems
- Replace entire plumbing system
- Install new automatic sprinkler system
- Install "clean" electrical power to support computers and modern electronic equipment
- Install state-of-the-art data, telecommunication, CATV, and A/V cabling
- Renovate and replace aged two-pipe HVAC system and components with four-pipe system to meet indoor air quality standards to include automatic temperature control system and humidity control; consider systems other than unit ventilators.
- Upgrade chillers, pumps, and controls
- Replace inefficient building lighting to reduce energy cost and improve classroom, offices, and corridor light levels (consider multiple level switching and task lighting)
- Renovation of the electrical distribution system, upgrade electrical panels, emergency generator to include connection of circulating pumps
- Reconfigure lecture rooms and computer classroom to modern standards (heating, ventilation, ceilings, AV, lighting, sound, acoustical treatment, etc.)
- Convert three faculty offices on ground floor on the east side of the building back to classrooms
- Install security system to include doors separating Dauphin Humanity Center from MCT/Dauphin Addition
- Provide an addition to accommodate adequate office space for the Dean of Arts and Sciences Office, currently housed in Old Main, three faculty offices, relocated from ground floor, student lounge, the snack/internet cafe and communication closets
- Repoint and clean exterior masonry and repair/replace concrete sidewalks and stairs
- Provide parking to accommodate visitors, students, faculty and staff using this facility and others in the vicinity in view of the campus plan envisioned in the Facilities Master Plan
- Replace interior doors and hardware

2.1.3 SPECIAL FEATURES (Describe any special engineering and architectural features to be considered during design or construction; include technical support.)

The Professional must have capabilities in the following areas: hazardous materials remediation to include but not limited to asbestos, radon, PCBs and lead-based paint, indoor air quality enhancement, classroom and laboratory design, ADA compliance, roofing, windows, doors, flooring, wall and ceiling finishes including acoustic treatment, toilet compartments, fire protection systems, elevator, air compressors, vacuum pumps, circulating pumps, heating, ventilation, and air conditioning, automatic temperature control, humidity, plumbing piping and fixtures, electrical distribution, emergency generator, lighting, fire alarm, clock correction, sound systems, presentation systems, security systems and access control systems.

The Professional is required to have on staff or a sub-consultant at least one Registered Communications Distribution Designer to work closely with the University representatives in developing network topology alternatives and concepts for data, voice, cable television (CATV), and closed circuit television (CCTV). The Professional will develop the following to achieve an installation that will meet or exceed all appropriate Category 5E compliance issues as well as all applicable EIA/TIA standards including but not limited to 568A/569 and 606 standards as they apply to all telecommunications voice and data installations:

- Construction documents for furnishing and installing all necessary conduit, cable hooks, surface metal raceway, wiring troughs, ladder tray and any other equipment necessary to provide a clear pathway for the installation of the data, CATV, CCTV, and fiber optic cabling.
- Separate construction documents for furnishing, installing and terminating category 5E data/telephone cable, CATV cabling and all other low voltage data/telephone/CATV cabling into the raceways and pathways provided, furnishing and installing the CATV head-end and distribution equipment into the racks provided, furnishing and installing all data, telephone and CATV outlets, and furnishing and installing CCTV equipment. The CCTV is to be used for security purposes in corridors and common spaces.
- Electronic equipment lists, which will include applicable costs as separate line items from the estimated construction cost in applicable submittals. The University will procure and install the data network electronics equipment.

2.1.4 FUTURE OR ADJACENCY CONSIDERATIONS (Describe how adjoining structures will influence project.)

The vehicular and pedestrian traffic circulation on campus is slated to be modified according to the University Facilities Master Plan. To the extent that the area immediately around Dauphin Humanities Center is affected by those proposed modifications, limit of the extent of the work to be part of the Dauphin Humanities Center must be defined so that the transition beyond the limit of scope can be documented.

To provide the most flexibility and consistency with planned improvement (walks, malls, plazas, terraces, plantings, exterior lighting, and parking lot design) it is recommended that the limits of the scope not go beyond the building addition by more than 20 feet, except for the area between the Dauphin Humanities Center and Wright Hall. This area is used by service vehicles to both buildings. There access will be from the proposed new parking lot and the existing service drive from Dauphin Drive will be removed. The sidewalks between Dauphin Humanities Center and Dauphin Drive will also be modified according to the University Facilities Master Plan.

The proposed parking lot between Dauphin Humanities Center and Grove Hall will accommodate approximately 90 vehicles.

2.1.5 SPECIAL SERVICES (Describe any special professional services anticipated, e.g., site selection, environmental study, O&M plan, life cycle plan.)

Shippensburg University seeks an energy and resource efficient approach to designing, constructing, renovating, operating, and maintaining a facility that is crucial to our mission. Our approach includes: reducing the University's energy consumption and costs; minimizing the quantities of waste construction and demolition materials going to landfills; improving indoor air quality; and maximizing the use of sustainable materials and resources.

Services to be provided under the proposed contract for professional services during the design, construction, and start up phases shall include performing a comprehensive facility assessment and energy audit, providing architectural and engineering services for energy efficient operating systems and complete rehabilitation of the facility, and researching and presenting sustainable design elements and life cycle costs for alterations. The firm will also be required to develop and present the results of consumption targets and models, energy efficient design investments, sustainable material specifications, and facility designs. The University requires the Professional to provide the university a life cycle maintenance and costing plan in accordance with requirements of the State System of High Education.

The Professional shall incorporate the requirements of the attached memo, dated 2/24/98, from the Chancellor's Office of the State System of Higher Education, enclosing Guidelines for Energy Efficient Construction. The Professional shall review the suggestions contained in this document and incorporate those that apply to the design requirements, not only for new construction, but also for maintenance and repair. The Professional shall promote within the team assigned to this project integrated design practices keeping in mind energy efficiency, future maintenance requirements, and evaluation of alternatives on a life-cycle cost basis.

The University requires the Construction Contractor, under the supervision of the Professional, to provide operation and maintenance manuals for all equipment components and systems in hard copy and PDF format. The University also requires the Construction Contractors to provide formal training on the operation and maintenance of all mechanical, electrical and fire protection systems provided and provide the university a videotape of the training for future reference.

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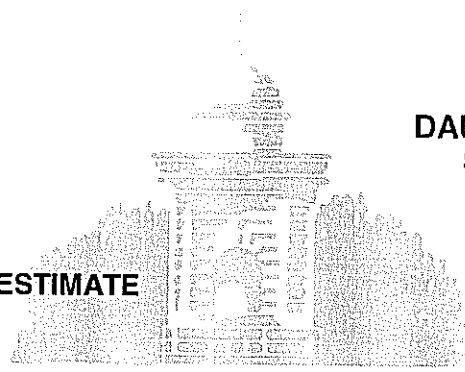
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2.1.6 REQUIRED TESTS (Describe required testing, e.g., structural, subsurface, historical, environmental.)

Testing should be done for hazardous materials fall into five categories (flammable, corrosive, reactive, toxic, and contains VOC's). This would include but not be limited to lead paint, mercury, vinyl chloride, PCB's, etc.

Also required is subsurface investigation for foundation and structural design for the proposed addition and testing for current level of Radon.

It does appear that any testing is required for historical or environmental concerns.



2.2 SUMMARY BUDGET COST ESTIMATE

As a result of the analysis described in the previous section, the following list summarizes the proposed alterations to Dauphin Humanities Center:

ADA STANDARDS

| | | |
|-----|--|---------------------|
| 1. | Provide elevator ADA upgrades including stand-by power. | \$12,000.00 |
| 2. | Upgrade exterior signage. | \$1,000.00 |
| 3. | Upgrade interior signage. | \$3,000.00 |
| 4. | Upgrade toilet facilities. | \$230,000.00 |
| 5. | Upgrade water coolers. | \$32,000.00 |
| 6. | Upgrade door hardware..... | \$43,500.00 |
| 7. | Lower fire extinguishers..... | \$6,500.00 |
| 8. | Create area of refuge. | \$20,000.00 |
| 9. | Upgrade fire alarm system. | \$46,250.00 |
| 10. | Provide ADA access to lecture rooms including sloping floor on Second Floor..... | \$40,000.00 |
| | Total | \$434,250.00 |

LABOR AND INDUSTRY/2003 IBC COMPLIANCE

| | | |
|-----|---|---------------------|
| 11. | Corridor rating (install an automatic fire suppression system)..... | \$215,000.00 |
| 11. | Corridor rating (request variance)..... | \$500.00 |
| 12. | Interior finishes, flame-spread | N/A |
| 13. | Upgrade emergency lighting..... | \$125,000.00 |
| 14. | Upgrade railing system in stair tower..... | \$30,000.00 |
| 15. | Install interior safety glass. | \$5,000.00 |
| 16. | Install backflow preventor valve..... | \$10,000.00 |
| 17. | Replace fire alarm system | see ADA item #9 |
| 18. | Provide additional toilet facilities..... | see item #4 |
| | Total | \$385,000.00 |

AESTHETIC UPGRADES

| | | |
|-----|--|-------------|
| 19. | Install new exterior doors..... | \$47,000.00 |
| 20. | Install new corridor ceilings. | \$50,000.00 |
| 21. | Install new wood flooring. | \$80,000.00 |
| 22. | Install new floor covering in corridor and stairs..... | \$12,150.00 |
| 23. | Install new ceilings in classroom and offices..... | \$21,000.00 |
| 24. | Install new toilet partitions. | \$20,000.00 |
| 25. | Install new markerboards and tackboards. | \$30,000.00 |
| 26. | Replace damaged ceramic tile | see item #4 |
| 27. | Replace damaged toilet fixtures | see item #4 |
| 28. | Repair, repoint exterior brickwork..... | \$55,000.00 |

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| | | |
|-----|--|---------------------|
| 29. | Install new solid core doors..... | \$60,000.00 |
| 30. | Upgrade finishes and lighting in elevator cab..... | \$9,000.00 |
| 31. | Upgrade seating and finishes in lecture rooms..... | \$110,000.00 |
| | Total | \$494,150.00 |

PERFORMANCE UPGRADES

| | | |
|-----|---|-----------------------|
| 32. | Replace window system..... | \$365,000.00 |
| 33. | Replace HVAC system..... | \$891,750.00 |
| 34. | Replace temperature control system and chiller/cooling tower..... | \$325,000.00 |
| 35. | Replace domestic water system..... | \$205,000.00 |
| 36. | Replace electrical service and panels..... | \$468,300.00 |
| 37. | Provide new lighting (miscellaneous areas only)..... | \$10,000.00 |
| | Provide occupancy sensors..... | \$29,600.00 |
| 38. | Provide new intercom/clock system..... | \$27,000.00 |
| 39. | Provide additional electrical outlets..... | \$60,000.00 |
| | Provide additional switching to allow for two levels of lighting..... | \$11,000.00 |
| | Total | \$2,392,650.00 |

HAZARDOUS MATERIALS

| | | |
|-----|---|-----------------------|
| 40. | Asbestos abatement/removal..... | \$1,366,000.00 |
| 41. | Lead paint or other hazardous materials abatement (lump sum allowance)..... | N/A |
| 42. | Install new radon removal exhaust system..... | \$20,000.00 |
| | Total | \$1,386,000.00 |

EDUCATIONAL UPGRADES AND PROGRAM REQUIREMENTS

| | | |
|-----|--|-----------------------|
| 43. | Provide new telecom/data systems..... | \$446,800.00 |
| 44. | Renovate three faculty offices into classroom..... | \$30,000.00 |
| 45. | Provide student lounge in new addition..... | see below |
| 46. | Provide Internet cafe in new addition..... | see below |
| 47. | Provide office area for Dean of Arts and Sciences..... | see below |
| 48. | Provide new telecom/data closets..... | see below |
| | New addition..... | \$675,000.00 |
| 49. | Provide new 90 space parking lot..... | \$90,000.00 |
| | Provide curbing around new parking lot..... | \$15,000.00 |
| | Provide lighting for new parking lot..... | \$30,000.00 |
| 50. | Redesign service area between DHC and Wright Hall..... | \$20,000.00 |
| 51. | Redesign walks and landscape improvements..... | \$20,000.00 |
| 52. | Redesign entrance plaza at south end of DHC..... | \$25,000.00 |
| | Provide pedestrian light..... | \$15,000.00 |
| | Total | \$1,366,800.00 |

SUBTOTAL \$6,458,850.00

Design Contingency \$1,300,000.00

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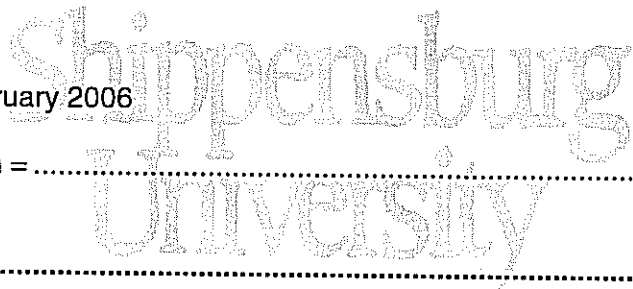
TOTAL CONSTRUCTION ESTIMATE\$7,758,850.00

The construction costs are estimates based upon the current market and adjustments will need to be made to the estimates in order to accommodate any inflation on a yearly basis. These estimates do not include soft costs (i.e., bond and legal fees, architectural/engineering fees, movable equipment, etc.).

Escalation to Bid Date February 2006

12 months x .3% per month =\$279,312.00

TOTAL.....\$8,038,162.00



2.3 PHASING PLAN

If the University wishes to consider renovating the building while it is occupied, the following information should be considered:

- Phasing renovations by floor level.
- Sequence the phasing so that major new mechanical systems are in place so that once a floor level has been renovated, new mechanical equipment would be functional.
- Section activities will create noise and dust, which can be disruptive to the educational program.
- Appropriate egress from building for emergencies must be maintained.
- The complexity of the asbestos abatement, associated with the fireproofing of the structural members, further compounds the phased activities.
- The construction cost will be approximately 10% higher due to phasing the renovations.
- Due to all of the disadvantages of phased construction in an occupied building, the University should consider relocating the faculty and classrooms to other facilities and not use the building during the renovations.

Construction Issues:

Due to the extent of renovations and the size of the addition, the complexity of construction will be compounded by the fact that the building is occupied by students and faculty/staff. This is further compounded by all the activities associated with this function (i.e., delivery and dismissal of students, visitors, deliveries, etc.). Due to the size of the addition and the limited size of the existing site, staging area for construction activities is almost nonexistent. This will require remote staging of certain materials at nearby locations.

The existing site contains a small outdoor play area, drop-off areas, and minimal parking. This area will be eliminated by the size of the proposed addition, with no ability to meet program requirements for these activities on the current site.

There would be no further expansion capabilities at this site.

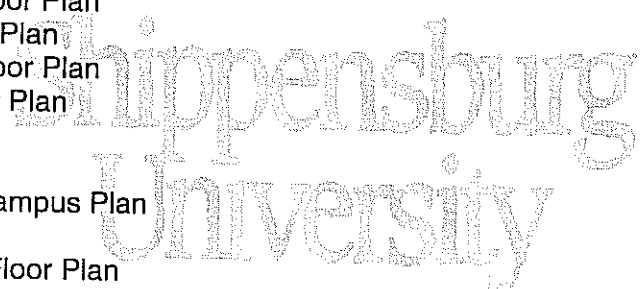
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2.4 DRAWING LIST

Existing Partial Campus Plan
Existing Site Plan
Existing Ground Floor Plan
Existing First Floor Plan
Existing Second Floor Plan
Existing Third Floor Plan

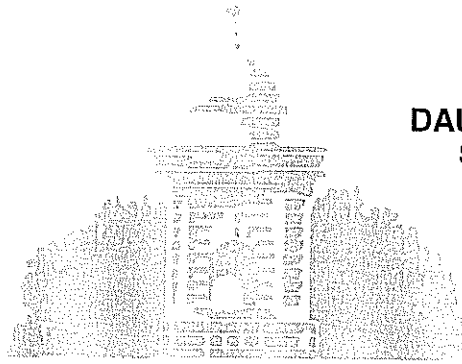
Proposed Partial Campus Plan
Proposed Site Plan
Proposed Ground Floor Plan
Proposed First Floor Plan
Proposed Second Floor Plan
Proposed Third Floor Plan
Proposed Sketch



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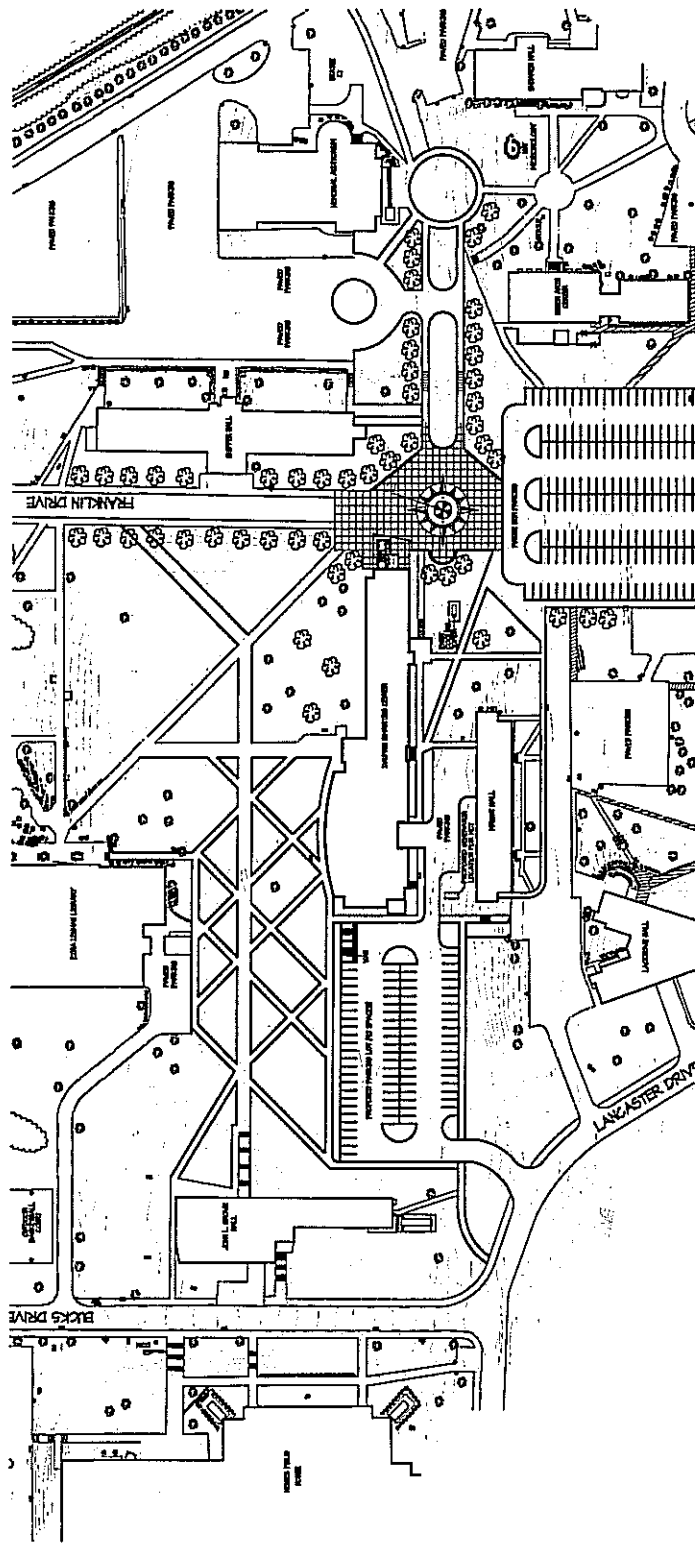
3.00 PROPOSED SCHEME A



Shippensburg
University

PROPOSED PARTIAL CAMPUS PLAN

SCALE ONE INCH EQUALS FIFTY FEET

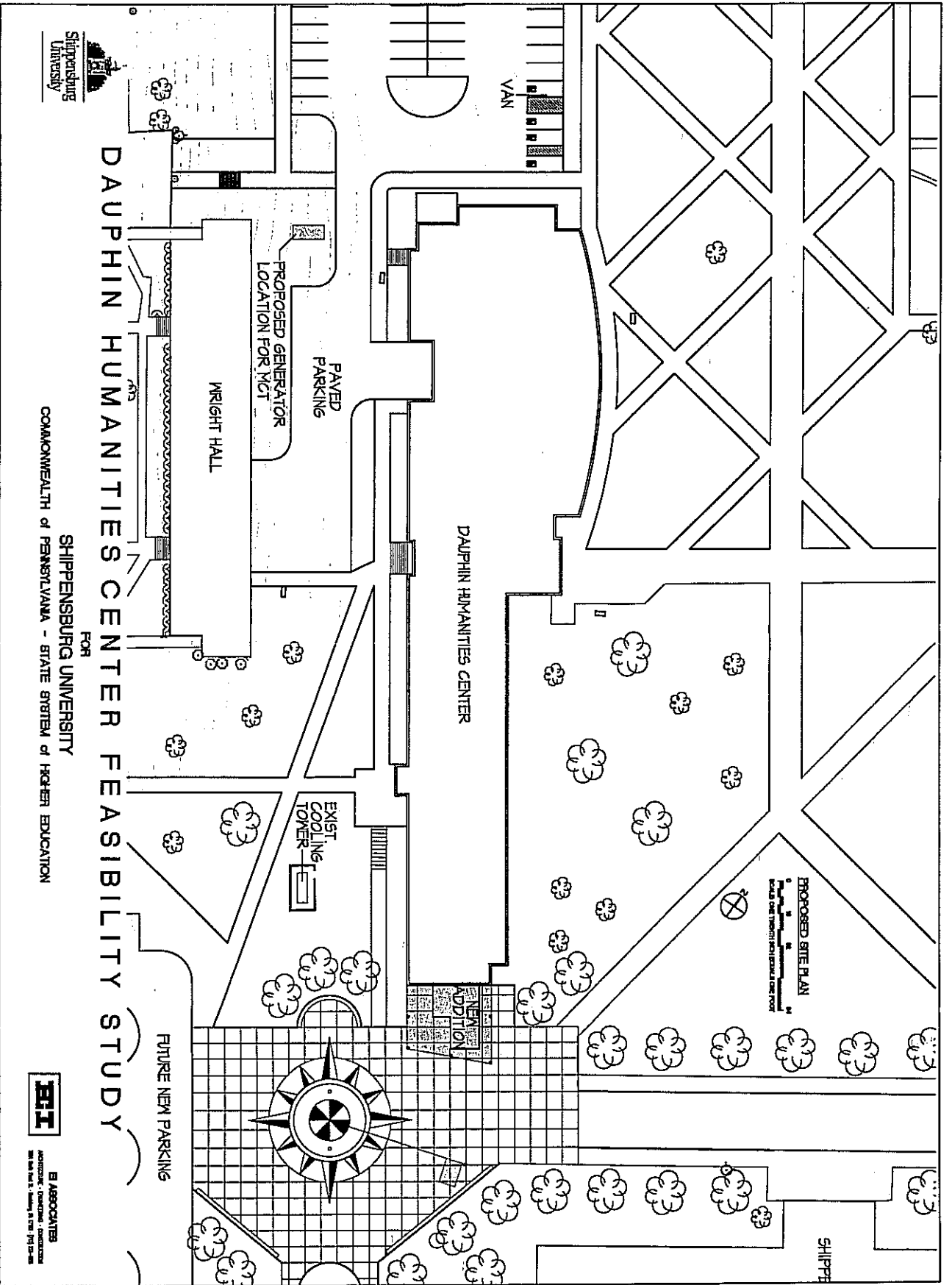


DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
 SHIPPENSBURG UNIVERSITY
 COMMONWEALTH OF PENNSYLVANIA - STATE SYSTEM OF HIGHER EDUCATION

EI ASSOCIATES
 ARCHITECTS - PLANNERS - ENGINEERS
 100 N. 10TH ST., SUITE 100, YORK, PA 17403





Shippensburg University

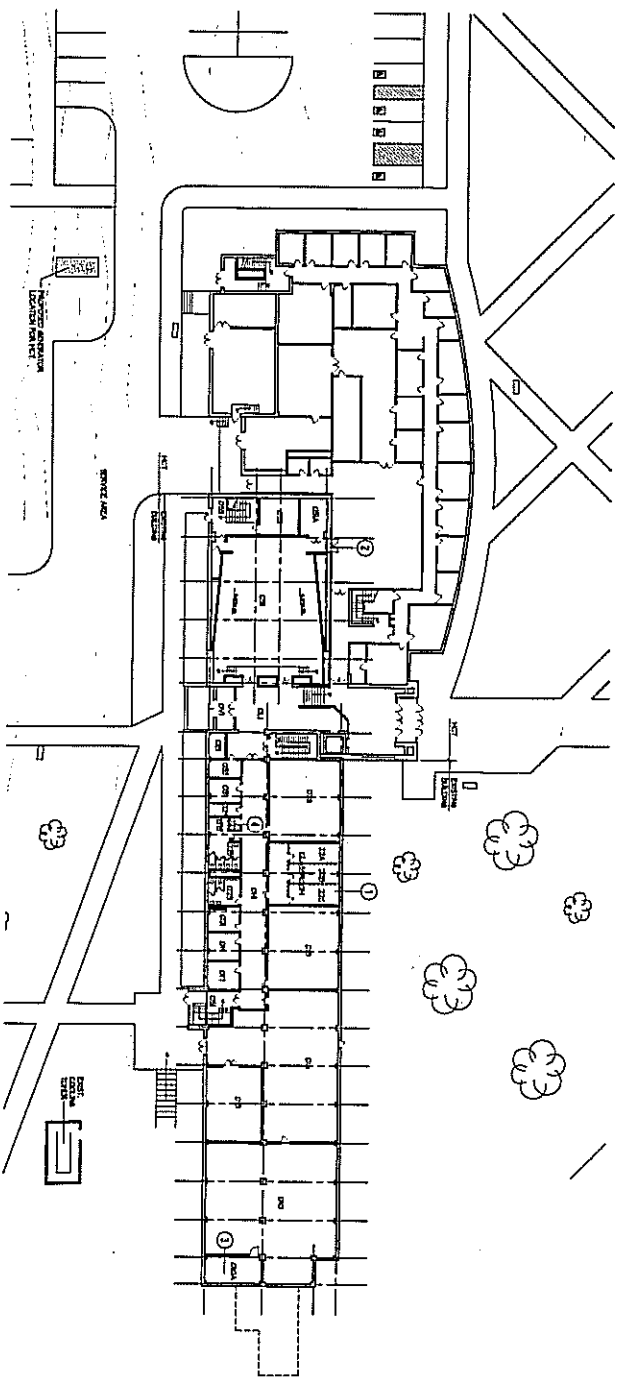
FOR SHIPPENSBURG UNIVERSITY
COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



EJI ASSOCIATES
ARCHITECTURAL, ENGINEERING, INTERIOR DESIGN
1000 N. 10th Street, Suite 100, York, PA 17402

PROPOSED GROUND FLOOR PLAN

SCALE OF ARCHITECTURE: 1/8" EQUALS ONE FOOT



- ROOM LEGEND**
- 012 STORAGE
 - 013 STORAGE
 - 014 MECHANICAL ROOM
 - 015 OFFICE
 - 016 CLASSROOM
 - 017 OFFICE
 - 018 OFFICE
 - 019 OFFICE
 - 020 OFFICE
 - 021 OFFICE
 - 022 WOMEN
 - 023 MEN
 - 024 CLASSROOM
 - 025 CLASSROOM
 - 026 CLASSROOM
 - 027 TOILET
 - 028 JANITORS CLOSET
 - 029 ELEVATOR MACHINE ROOM
 - 030 ELEVATOR HALL
 - 031 LECTURE HALL
 - 032 STORAGE
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PROPOSED GROUND FLOOR PLAN

- GENERAL NOTES**
- 1 REMOVE EXISTING PARTITION WALLS, DOORS AND FINISHES. PATCH AND REPAIR EXISTING WALLS.
 - 2 REPAIR PORTION OF EXISTING WALL. PROVIDE NEW DOOR AND FINISHES. PROVIDE NEW DOOR AND FINISHES FOR ACCESS TO LECTURE ROOM (15' x 31').
 - 3 REMOVE FACULTY TOILET. CREATE REST AREA WITH MEN'S TOILET.

DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
SHIPPENSBURG UNIVERSITY
 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION

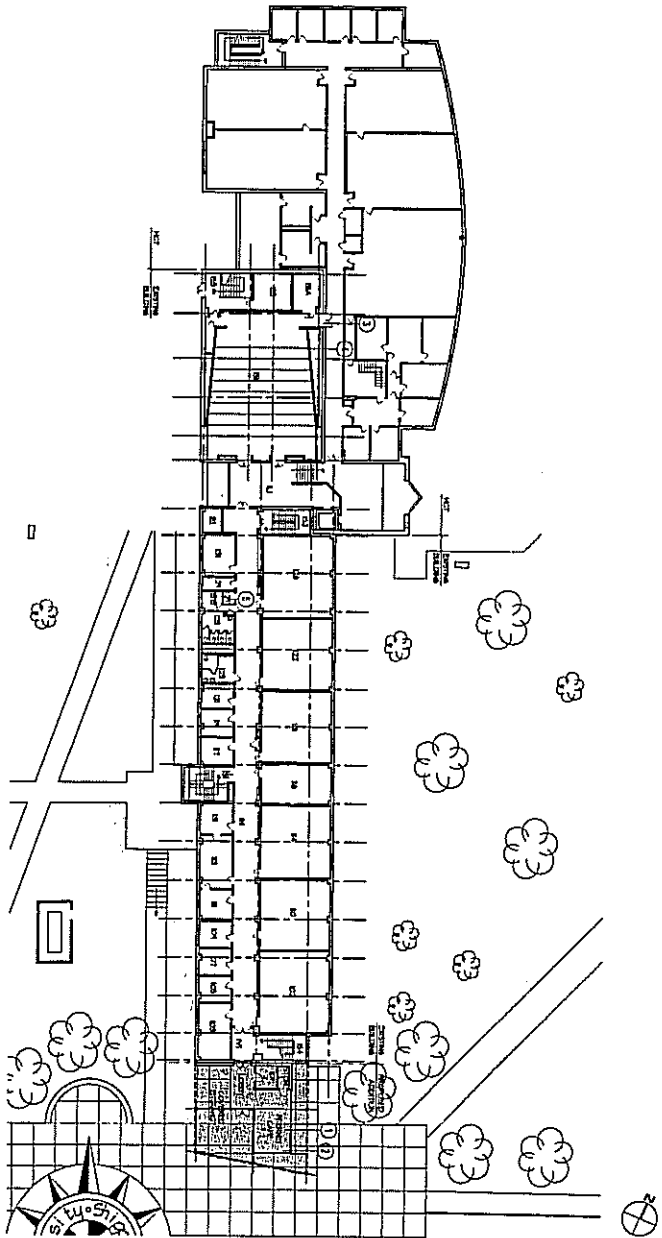


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 ARCHITECTS • ENGINEERS • INTERIORS
 200 West 10th Street, Shippensburg, PA 17252



DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
SHIPPENSBURG UNIVERSITY
 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



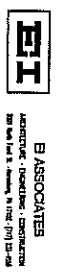
PROPOSED FIRST FLOOR PLAN
 SCALE ONE INCH EQUALS FOUR FEET

- ROOM LEGEND**
- 102 CLASSROOM
 - 103 OFFICE
 - 104 OFFICE
 - 105 OFFICE
 - 106 OFFICE
 - 107 OFFICE
 - 108 OFFICE
 - 109 OFFICE
 - 110 CLASSROOM
 - 111 OFFICE
 - 112 OFFICE
 - 113 CLASSROOM
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 - 116 OFFICE
 - 117 CONFERENCE ROOM
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 - 121 OFFICE
 - 122 CLASSROOM
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 - 124 MEN
 - 125 WOMEN
 - 126 STORAGE
 - 127 TOILET
 - 128 CLASSROOM CLOSET
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 - 154 LOBBY
 - E1 ELEVATOR

- ADDITION**
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 - 154 STOWAGE
 - E1 ELEVATOR

PROPOSED FIRST FLOOR PLAN

- GENERAL NOTES**
1. WALL DASHING INDICATES WITH LIGHT WEIGHT CONCRETE TO FORM A SLOPED FLOOR
 2. NEW HANG AND TRUCK FOR THE PROPOSED ADDITION
 3. REMOVE POSITION OF EXISTING WALL FROM NEW ROOM OFFERING FOR ACCESS TO LEBRARY ROOM
 4. WALL DASHING INDICATES WITH LIGHT WEIGHT CONCRETE TO FORM A SLOPED FLOOR
 5. REMOVE FACULTY TOILET
 6. CREATE REST AREA WITHIN WOMEN'S TOILET

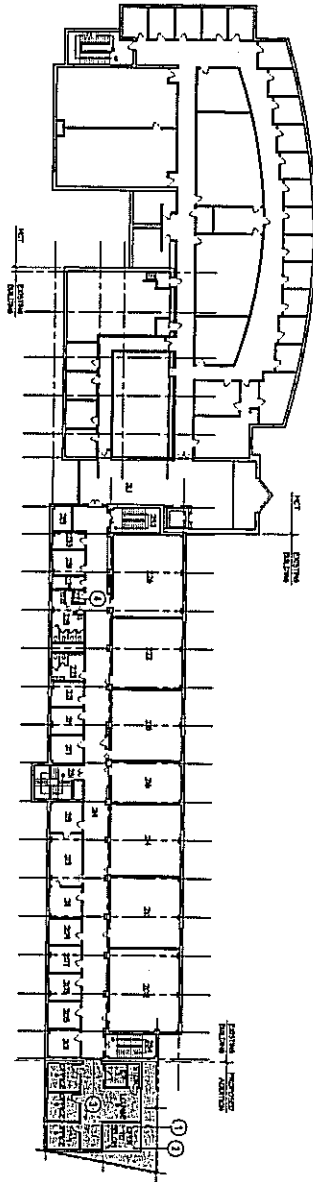


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DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
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 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



PROPOSED SECOND FLOOR PLAN
 SCALE ONE INCH EQUALS SEVEN FEET

ROOM LEGEND

- 201 OFFICE
- 202 CLASSROOM
- 203 OFFICE
- 204 OFFICE
- 205 OFFICE
- 206 OFFICE
- 207 OFFICE
- 208 OFFICE
- 209 OFFICE
- 210 OFFICE
- 211 OFFICE
- 212 CLASSROOM
- 213 OFFICE
- 214 CLASSROOM
- 215 CONFERENCE ROOM
- 216 OFFICE
- 217 CLASSROOM
- 218 OFFICE
- 219 OFFICE
- 220 CLASSROOM
- 221 OFFICE
- 222 CLASSROOM
- 223 WORKSTATION
- 224 CLASSROOM
- 225 TOILET
- 226 JAVAS/CLOSET
- 227 OFFICE
- 228 OFFICE
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- 232 OFFICE
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GENERAL NOTES

- 1 CREATE PROPOSED ADDITION
- 2 NEW HVAC AND TELCOM FROM THIS PROPOSED ADDITION
- 3 REMOVE EXISTING WINDOW AND PORTION OF EXISTING WALL FOR NEW OFFICE
- 4 REMOVE FACULTY TOILET
- 5 CREATE REST AREA WITHIN WOMEN'S TOILET

- ADDITION**
- NA.1 STORAGE
 - NA.2 OFFICE
 - NA.3 HALLWAY
 - NA.4 HALLWAY
 - NA.5 HALLWAY
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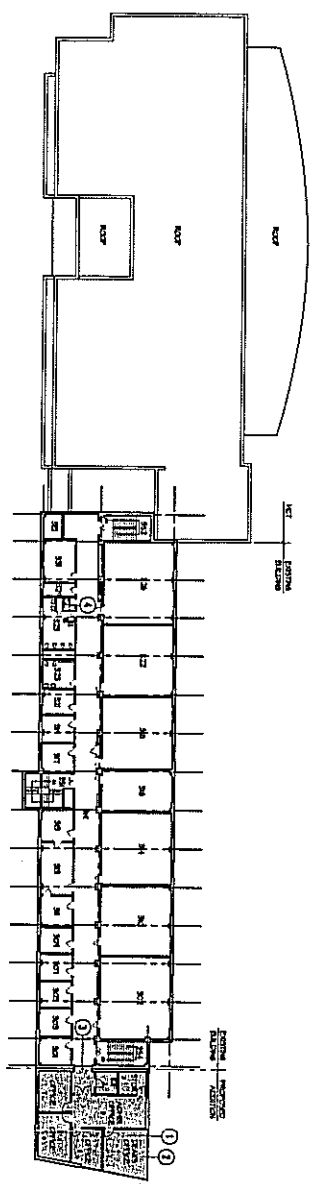


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DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
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 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



PROPOSED THIRD FLOOR PLAN
 SCALE ONE CENTIMETER EQUALS ONE FOOT

ROOM LEGEND

- 301 OFFICE
- 302 CLASSROOM
- 303 OFFICE
- 304 OFFICE
- 305 OFFICE
- 306 OFFICE
- 307 OFFICE
- 308 OFFICE
- 309 OFFICE
- 310 OFFICE
- 311 SEC. OFFICE
- 312 CLASSROOM
- 313 OFFICE
- 314 CLASSROOM
- 315 CONFERENCE ROOM
- 316 OFFICE
- 317 CLASSROOM
- 318 OFFICE
- 319 OFFICE
- 320 CLASSROOM
- 321 OFFICE
- 322 CLASSROOM
- 323 MEN TOILET
- 324 CLASSROOM
- 325 CLASSROOM
- 326 TOILET
- 327 TOILET
- 328 JAVAS/ST. CUBBY
- 329 OFFICE
- 330 STAIR
- 331 STAIR
- 332 STAIR
- 333 STAIR
- 334 STAIR
- 335 ELEVATOR

ADDITION

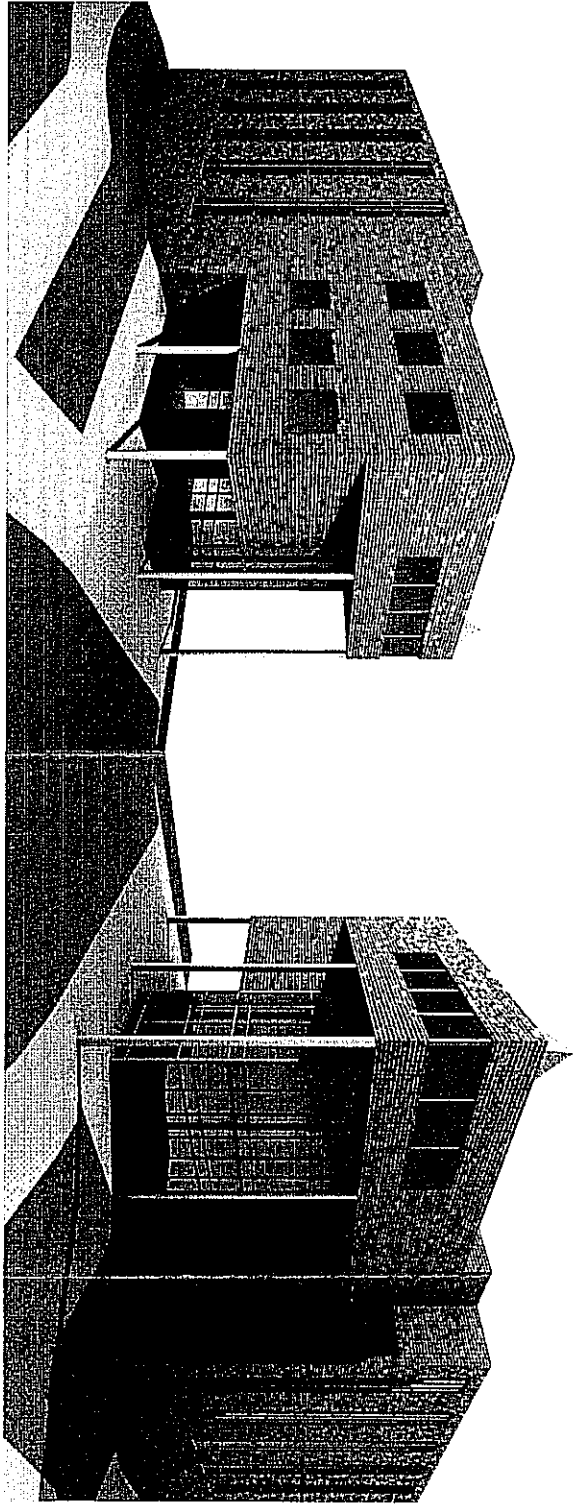
- NO. 1 STORAGE
- NO. 2 STAIR
- NO. 3 ADJUV. OFFICE
- NO. 4 READING OFFICE
- NO. 5 ADJUV. OFFICE
- NO. 6 ADJUV. ASST. OFFICE
- NO. 7 ADJUV. ASST. OFFICE

GENERAL NOTES

- ① CREATE PROPOSED ADDITION
- ② NEW WALL AND TIECLIN FOR THIS PROPOSED ADDITION
- ③ REMOVE EXISTING WINDOW AND PARTITION OF EXISTING WALL FOR NEW OFFICE
- ④ REMOVE FACULTY TOILET DOWNSIDE REAR WENTHURST WING AND TOILET



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DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
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COMMONWEALTH OF PENNSYLVANIA - STATE SYSTEM OF HIGHER EDUCATION



EJL ARCHITECTS
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PITTSBURGH, PA 15222

4.00 EVALUATION OF EXISTING FACILITY

Dauphin Humanities Center is comprised of concrete floors, concrete roof deck, and masonry walls. This meets the construction-type requirements for noncombustible construction, per Pennsylvania Department of Labor and Industry Code and is Type IIA/Noncombustible Construction, per 2003 International Building Code. This construction type requires 1-hour fire rating on structural frame, bearing walls, floor, and roof construction. The allowable height and building areas are 5-stories (65') and 37,500 sq. ft. per floor. These can be increased by the extent of open building perimeter and the installation of an automatic sprinkler system protection. The Use Group classifications are as follows:

| | |
|---|-------------------------|
| <u>2003 International Building Code</u> | <u>Mixed Use Group:</u> |
| | Business (B) |
| | Storage (S-2) |
| | Assembly (A.3) |

The heating system is steam heat from the University central plant. The main steam service enters the lower level of the facility, goes through a pressure reducing station, and is then distributed to the heating equipment. The mechanical system consists of unit ventilators in the classrooms and fan coils in the office areas. Large air handling units serve the lecture areas. Convectors heat the corridors and ancillary areas. Chilled water is generated from the chiller located in the lower level Mechanical Room.

The building is connected to the municipal water and sanitary sewer systems.

The electrical service to the building consists of a 12,470-volt underground primary to an indoor substation consisting of a primary disconnect switch and 12,470 - 208/120-volt transformer. The substation feeds a main disconnect switch and serves a main distribution panel rated at 208 wye/120-volt. The emergency generator is a 15 KW natural gas generator with a 120/208-volt, 3-phase, 4-wire output. The generator is several years old and is of sufficient capacity for the building for emergency lighting but not other desired loads. The building has a fire alarm system and emergency lighting. The correctable clock system is not functional.

There have been minor alterations over the years; however, the majority of the building is in its original condition, which now requires attention, due to deterioration under heavy usage.

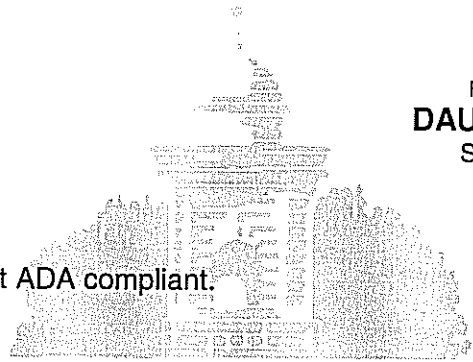
Per the Facilities Manual of the State System of Higher Education, the building condition is in Category **Code #4, Remolding-C**. (Requires major remodeling of the building. Last major remodeling was more than 34 years ago.)

The following information is an item-by-item review of the facility's overall condition, list of deficiencies with respect to current codes and ordinances, typical standards, suggested need for replacement due to unsafe conditions or systems failures, and program updates.

ADA COMPLIANCE

Alterations, like new construction, require full compliance with the code. An alteration is a change, which affects, or could affect, the usability of the building or facility. It also includes "elements" such as door handles and faucet controls. If alterations are made to an area that contains a primary function, a path of travel to that area should be made accessible. The ADA addresses the issue of accessible design for large assembly areas, with the intent of integrating wheelchair seating with regular seating. That is, individuals in wheelchairs should have a line of sight compatible to the general student body. Too often, wheelchair areas are confined to the back or to the front.

1. The building has access for disabled persons at two levels from the exterior. There is access to the other levels, provided by an elevator. In a four-story building the elevator shall be part of an accessible means of egress complying with the emergency operation and signaling device requirements of Section 2.27 of ASME A17.1. Stand by power shall be provided in accordance with Section 2702 and 3003.
2. Provide proper signage to identify handicapped entries including directions to handicapped entries at non-handicapped entries.
3. Current interior signage, which identifies permanent rooms and provides direction to, or information about, a functional space is not in compliance with size, type, finish, and mounting type.
4. The existing toilet rooms do not comply with disabled persons' standards.
 - A. The toilet rooms and related fixtures shall be replaced to be ADA compliant.
 - B. New plumbing fixtures shall be installed. Fixtures shall be of high quality and shall include hands free electronic faucets and flush valves.
5. The existing water coolers do not comply with disabled persons' standards.
 - A. Water coolers need to be replaced with lead free units that comply with all ADA requirements.
6. The interior doorknob sets do not comply with ADA standards for proper hardware.
7. The existing fire extinguishers do not meet ADA standards for mounting height.
8. Areas of Rescue Assistance are not required in alterations or existing conditions by ADA; however, the Pennsylvania Department of Labor and Industry requires them if the building is not equipped with an automatic sprinkler system.
9. Various control devices (telephones, fire alarm pull stations, light switches) are not accessible for physically challenged employees or users, and do not meet ADA standards for mounting height.



10, The Lecture rooms are not ADA compliant.

LABOR AND INDUSTRY/IBC 2003 BUILDING CODE

Deficiencies cited in this report clearly fall into the category of items in conflict with current codes, if you were going to construct the building today. Building codes evolved from what was once acceptable, but now may be in conflict with current status. No condition was identified which would cause State or local regulatory officials to close the facility. Nonconformance with today's standards is not cause for facility closure. Existing building, or portion thereof, which does not comply with requirements of the Pennsylvania Department of Labor and Industry and/or the International Building Code for new construction should not be altered or repaired in such a manner that results in the building being less safe or sanitary than such building is currently.

IBC-SECTION 302 REPAIRS

302.1 **Scope.** Repairs, as defined in Chapter 2, include the patching or restoration of materials, elements, equipment, or fixtures for the purpose of maintaining such materials, elements, equipment, or fixtures in good or sound condition.

302.2 **Application.** Repairs shall comply with the provisions of Chapter 4 (not make building less conforming than before repair was undertaken).

IBC-SECTION 303 ALTERATION-LEVEL 1

303.1 **Scope.** Level 1 alterations include the removal and replacement or the covering of existing materials, elements, equipment, or fixtures using new materials, elements, equipment, or fixtures that serve the same purpose.

303.2 **Application.** Level 1 alterations shall comply with the provisions of Chapter 5.

IBC-SECTION 304 ALTERATION-LEVEL 2

304.1 **Scope.** Level 2 alterations include the reconfiguration of space, the addition or elimination of any door or window, the reconfiguration or extension of any system, or the installation of any additional equipment

304.2 **Application.** Level 2 alterations shall comply with the provisions of Chapter 5 for Level 1 alterations as well as the provisions of Chapter 6.

IBC-SECTION 305 ALTERATION-LEVEL 3

305.1 **Scope.** Level 3 alterations apply where the work area exceeds 50 percent of the aggregate area of the building.

305.2 Application. Level 5 alterations shall comply with the provisions of Chapters 5 and 6 for Level 1 and 2 alterations, respectively, as well as the provisions of Chapter 7.

Other codes used in the evaluation for compliance are the National Plumbing and Electrical Codes.

11. The partition separating the classrooms, offices, etc. from the lobby/exit corridor must be a one-hour noncombustible partition with C-labeled doors. This can be reduced to zero hours if an automatic sprinkler system is provided.
 - A. Upgrade the water service to feed the new sprinkler system. The system shall be sized to handle the entire facility, including all sprinkler coverage, as well as standpipes in the stairways. The 2003 IBC code requires 100 psi at all standpipes; therefore a fire pump will be required. This, however, should be verified by the Professional designing the system.
 - B. File for a variance to 1-hour fire rating since building was approved with non-rated corridor.
12. The interior finish shall be a minimum of Class B or a flame-spread rating of 26-75 per Department of Labor and Industry, and BOCA would allow a Class 3 or a flame-spread rating of 76-200 for places of assembly with capacities of less than 300 persons.
 - A. Without testing the materials used for finishes within the facility, they must be judged to be conformant by today's standards/codes.
13. An emergency lighting system is required to illuminate general exiting and illuminate exit signs at discharge doors throughout the building.
 - A. The existing emergency generator is rated at 15 KW and is located in the mechanical room. The generator needs to be replaced with a new unit capable of carrying the hot water circulating pumps and the existing emergency loads. Replace the existing generator and transfer switch. Determine the power requirements for the mechanical system pumps, elevator equipment, and other equipment, which the University desires to put on the emergency power system and select a new generator size. Provide separate disconnect switches and distribution panelboards for legally required loads and stand by loads.
 - B. The existing generator at the MCT/Dauphin Addition is 30 KW only supports emergency lighting. It needs to be upgraded to carry the UPS system and other computer loads. The existing UPS system, which has a relatively short time limit when power fails. The existing UPS system is scheduled for replacement outside this study. Replace the existing generator in the MCT/Dauphin Addition, with a site-mounted diesel generator of approximately 200 KW capacity. Provide a transfer switch for a new 80 KW UPS system being installed outside of this study. Provide separate transfer switches for legally required emergency systems and for other optional standby loads.

14. The existing railing system in the stair towers does not comply with current Department of Labor and Industry and IBC Codes.
 - A. Guardrails are required to be a minimum of 42" high.
 - B. Handrails are required to be installed between 34" and 38" high and shall be uniform in height.
 - C. The dimension between balusters has to be smaller than 4" (currently approximately 8" wide).
15. The existing interior glazing in doors, partitions, etc. does not comply with current code for safety glass.
16. The existing water service is not equipped with a backflow preventor valve.
17. The fire alarm system consists of an Autocall zoned system with manual pull stations, and audible and visual indicating appliances. The system is monitored by the campus central station; however, it is not addressable nor is it ADA-compliant.
 - A. Replace the existing fire alarm system with a Siemens MXL addressable fire alarm system to match the existing campus fire alarm system upgrades. Provide a manual and automatic fire alarm system in accordance with the codes cited elsewhere in this document and University requirements for protection of critical infrastructure and high value equipment.
18. The 2003 International Plumbing Code indicates the minimum number of plumbing fixtures at one water closet per 50 occupants; one lavatory per 80 occupants; and one drinking fountain per 100 occupants. The ground floor is proposed to have three classrooms (approximately 12 occupants) and four faculty offices (approximately eight occupants). A total of 131 maximum occupants, or 65 females/65 males, requiring two water closets and one lavatory in each toilet room. The first, second, and third floors each have six classrooms and seminar; 11 faculty offices; and department office. A total of 270 maximum occupants, or 135 females/135 males, requiring three water closets and two lavatories per toilet room. The number of drinking fountains required is two for the ground floor and three for each of the other three floors.

AESTHETIC UPGRADES

The facility does require on-going maintenance attention at the current level or better. Preventative maintenance and repair will have a major effect on the appearance, while protecting the physical soundness of the facility. Most of the material and components are original, exceeding 30 years of age.

19. On the exterior of the building, some of the existing doors are original and showing signs of deterioration.
20. The corridor ceilings are lay-in acoustical tile with damage, staining, and warping.

21. The tile floors in classrooms, faculty offices, and office are original and showing signs of deterioration.
22. The floor covering in corridors and stairs have damaged areas.
23. The ceilings in classrooms and offices are lay-in acoustical tile with damage, staining, and warping.
24. The toilet partitions are original to the building and showing signs of deterioration.
25. The chalkboards and tackboards in the classrooms are in fair condition.
26. The ceramic tile floor and wainscot in the toilet rooms have some minor damage.
27. Some of the toilet fixtures and trim are showing damage.
28. There is minor deterioration of the exterior brickwork.
29. Interior doors are showing signs of deterioration. Provide new wood doors.
30. Elevator cab is showing signs of wear. Upgrade floor, wall, and ceiling finishes, as well as lighting.
31. Lecture Rooms are original and showing signs of wear. Upgrade seating, wall, floor, and ceiling finishes. Technology improvements are discussed under the Educational Upgrades found later in this Study.

PERFORMANCE UPGRADES

Beyond Code compliance, the aesthetic quality, and the nature of the environment, is the performance of the facility. Since the installation of many of the building's component systems, there have been advancements in technology. The design requirements for learning and teaching are at a different standard today, and there is a need to improve the efficiency, where possible, and correct any deficiency.

32. The existing windows are aluminum, with single glazing. They are original to the building, in fair condition, and are **not energy-efficient**.
33. Much of the existing HVAC system is original to the building and **in poor condition** (exceeds expected functional life of 30 years). This includes the steam and condensate piping. The Chiller/Tower system has been replaced but should be addressed as noted.
 - A. Pumps are operational but in need of replacement. All new pumps shall be provided for the new HVAC system. Pumps shall be duplex pump systems with Variable Frequency

Drives. Each pump shall have a separate drive. A separate pump system shall be provided for the chiller loop, as required to maintain minimum flow through the chiller.

- B. The steam is supplied to the building at 70 psi from a central plant and reduced to 10 psi before it is used to make heating hot water. Three heat exchangers are utilized to generate the hot water. They are in need of replacement. The existing high-pressure

steam line into the building shall be retained but the reducing valve station shall be replaced. Additionally, all the heat exchangers shall be replaced in accordance with the new system requirements. The existing condensate return pumps shall be replaced.

- C. Based on the age of the pipe system it is recommended that all the HVAC piping in the building be replaced, including the steam, hot/chilled water, and the steam condensate piping.

- D. Much of the pipe insulation on the 2-pipe heating and cooling system was found to be in poor condition and in need of replacement. Also, the valves were noted to be gate type and likely no longer operate properly. The entire HVAC system shall be replaced with a new 4-pipe VAV system.

The VAV system shall include fan powered VAV boxes for the classroom spaces and non-fan-powered boxes for the office areas. All boxes shall include electric reheat coils so that the steam system can be shut down in the summer months. The primary VAV air handlers shall be hot water/chilled water with VFD drives to vary the airflow. Airflow monitoring should be provided to verify and control the amount of outdoor air.

- E. The mechanical room does not comply with current codes for ventilation. Also, with the chiller in this space, additional ventilation controls and safety systems should be employed.

- F. The facility does not have any heating, ventilation, or air conditioning in the corridors. This should be addressed as part of any renovation.

- G. The ventilation systems shall be replaced. This includes exhaust in toilet rooms, as well as ventilation of mechanical spaces.

- H. The classrooms utilize unit ventilators while the offices use fan coils. The office areas do not appear to be getting any direct outdoor air through the HVAC system.

- I. The Lecture rooms are in poor condition and in need of all new HVAC systems. They are ineffective, noisy and do not provide adequate ventilation to the space. Humidity also seems to be a problem in these rooms.

- J. Ventilation rates should be upgraded for all areas in accordance with the current codes and standards.

- K. Ductwork shall be constructed of sheet metal in accordance with the requirements of SMACNA.
34. The existing facility is **air-conditioned**, however, many components need replaced.
- A. A new DDC system shall be installed and interfaced with the existing Automated Logic web based control system serving the campus. The control shall be electronic with pneumatic actuation. All components of the existing ATC system shall be replaced. The chiller in the existing facility is a McQuay chiller Model CEO87JBA35ROU. It was installed around 1994, and utilizes 134a refrigerant. It appears to be in good condition.
 - B. The Cooling Tower is an Evapco Model LSTA-8P-184. It was installed at the same time the chiller was installed in 1994. The tower is in good condition but will not last for another 35 years. Replacement should be considered as part of any renovation project. The tower shall be similar in size as the existing.
 - C. The Chilled Water system is currently connected to a central chilled water loop serving several buildings. This loop shall be maintained and expanded to include the existing MCT building chiller. Additional pumps and piping shall be provided as required.
 - D. Computer labs shall be provided with separate split system air conditioners and not tied to the central systems.
35. The existing domestic water piping distribution system is original. The piping is a mixture of copper and galvanized pipe with no cathodic protection. The piping joints contain lead-based solder. The domestic hot water piping system is not of the circulating type.
- A. The domestic water line appears to be 3" in size. There is a fire line for standpipes in the building stair towers, but both should be upgraded and resized according to any new code requirements. The existing domestic water piping and valves should be replaced with new. The piping system shall feed all new fixtures as well as any existing fixtures to remain.
 - B. A new domestic water heater shall be provided for the facility. The heater shall be electric and shall include all new recirculation system.
 - C. The existing sanitary pipe below grade shall be reused where possible. All other sanitary piping shall be replaced based on the new fixture layouts.
36. The existing electric service and panels are antiquated and need replaced.
- A. The existing switchgear, which is the main electrical service, is located in the electrical room. The switchgear is 40 years old and obsolete. The meters mounted on the switchboard are not functional. Additional branch breakers to serve new loads cannot be added. Replace the incoming electrical service including the primary feeders,

- primary fused switch, transformer, transformer secondary over current protection and secondary distribution switchboard.
- B. Existing electrical panels are 40 years old and obsolete except for a few recently added panels and are past their serviceable life. Existing electrical panelboards do not have space for additional circuits to serve instructional needs and are not isolated from equipment, which produces "dirty power." Replace all secondary feeders and branch panelboards except feeders and panelboards, which were installed in the last ten years.
 - C. The existing motor control center for mechanical equipment is 40 years old and obsolete. Replace the motor control center serving the mechanical systems with a new motor control center, or with locally mounted disconnect switches and starters.
37. The current lighting scheme in the classrooms, faculty offices, etc. consists of lay-in type fluorescent fixtures with electronic ballasts and T8 lamps; however, some lighting in miscellaneous area has not been updated. These fixtures are **insufficient** for current educational standards.
- A. Some lighting throughout the building is obsolete, inefficient, and in need of replacement. New lighting was installed under a 2004 contract and is to be reused in this proposed project.
 - B. Provide a motion sensor in each classroom and office to turn the lighting off when the space is not occupied.
38. The existing intercom and program bell systems for the building are **obsolete** and **non-operational**.
- A. Provide a new master clock system, tied to the existing Simplex system; and secondary clocks in each classroom, laboratory classroom, lecture hall, office, faculty office, and telecommunications closet. Provide secondary clocks in corridors and lobbies.
39. The existing classrooms, offices, etc. have **insufficient** outlets for current educational/technology requirements.
- A. Each classroom has one receptacle on the front wall and one on the back wall. All rooms inspected have additional surface mounted receptacles and plug strips, but there is little consistency from room to room in their locations. Receptacle locations do not serve instructional and student needs. In addition to receptacles provided for computers and smart classroom equipment, provide at least one general purpose receptacle on each wall of each classroom and lab where they do not currently exist.
 - B. Instructional spaces are not currently wired to support instructional technology at current University requirements. Provide dedicated panelboards and receptacles for all computers and electronic equipment in accordance with University standards. Provide an additional switch and wiring as required to allow the existing luminaries in the front

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one-third of each classroom to be switched separately from the luminaries in the rear two-thirds of the classroom. Where feasible provide additional switches to allow two levels of lighting in the front and rear zones of each classroom utilizing the existing luminaries.

Shippensburg
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HAZARDOUS MATERIALS

Volz Environmental Services, Inc. was retained by the Department of General Services (DGS) to provide inspection and management plan services for asbestos-containing building materials in Dauphin Humanities Center (#019). The building inspection was conducted on February 14 and 15, 1996, by Mr. Scott Dyll and Mr. John Sweeney. Each individual is a Pennsylvania Department of Labor and Industry-certified building inspector and management planner.

Material that has a total asbestos content of 1% or less is considered to be a non-asbestos-containing material.

An asbestos Operations & Maintenance (O&M) program can be defined as a formulated plan of training, cleaning, work practices, and surveillance to maintain asbestos-containing materials in good condition. This type of program will have initial start-up costs and continuous implementation costs until all asbestos-containing materials are abated from the facility.

This management plan is a document that identifies commonly occurring asbestos-containing building materials found within this building. It details the location and condition of the material and also gives recommendations for response actions. This plan must be updated during periodic surveys or when the condition of an asbestos-containing material changes due to a response action, damage, or maintenance activity.

40. A number of asbestos-containing materials (ACM) were identified during the course of the survey (thermal, surfacing, and miscellaneous). They are as follows:

| MATERIAL | LOCATION | QUANTITY | ACTION |
|-----------------------------|-------------------------------|------------|---------|
| fiberglass line (2.5" dia.) | joint/valve | 305 ea. | O&M |
| fiberglass line (3" dia.) | joint/valve | 82 ea. | O&M |
| fiberglass line (4" dia.) | joint/valve | 29 ea. | O&M |
| fiberglass line (5" dia.) | joint/valve | 42 ea. | O&M |
| fiberglass line (6" dia.) | joint/valve | 93 ea. | O&M |
| fiberglass line (8" dia.) | joint/valve | 6 ea. | O&M |
| 13" dia. receiving tank | tank insulation | 30 sf. | O&M |
| 12" x 12" beige w/brown | floor application | 28,364 sf. | Removal |
| window sills | wall application | 361 sf. | Removal |
| blue | fire door | 34 ea. | Removal |
| wood pattern | fire door | 2 ea. | Removal |
| fire proofing | spray applied to structure | 62,830 sf. | Removal |
| fiberglass line (4" dia.) | joint/valve | 3 ea. | Removal |
| fiberglass line (6" dia.) | joint/valve | 3 ea. | Removal |
| debris | joint/valve | 3 ea. | Removal |
| fiberglass line (8" dia.) | joint/valve | 3 ea. | Repair |

RESPONSE ACTION REMOVAL

The Spray-Applied (Fireproofing) identified as Homogeneous Area #001 contains approximately 25% chrysotile asbestos. It is located in Functional Space #11. There is approximately 62,824 square feet of spray-applied in a good, friable condition. Approximately 6 square feet of the material is significantly damaged. The spray-applied is located within the return air plenum of the building's ventilation system. Therefore, due to its friability, potential for disturbance, and location, it is being recommended that this material be removed.

The Joint/Valve Insulation (on Fiberglass Line / 4" Diameter) identified as Homogeneous Area #004 contains approximately 18% chrysotile and 3% amosite asbestos, respectively. It is located in Functional Spaces #1, #3, #4, #7, and #8. There are approximately 29 each of joint/valve insulation in a good, nonfriable condition. The recommended response action for this material is operations and maintenance. There are approximately 3 each of joint/valve insulation in a significantly damaged condition. The recommended response action for this material is remove.

The Vinyl Floor Tile (12" x 12" Beige w/Brown) identified as Homogeneous Area #009 contains approximately 8% chrysotile asbestos. It is located in Functional Spaces #2, #3, #4, #5, and #9. There are approximately 28,364 square feet of vinyl floor tile in a good, non-friable condition. The recommended response action for this material is remove.

The Cement Board (Window Sills) identified as Homogeneous Area #015 contains approximately 8% chrysotile asbestos. It is located in Functional Spaces #2, #3, #4, #5, #6, #7, and #9. There are approximately 361 square feet of cement board in a good, non-friable condition. The recommended response action for this material is remove.

The Debris (Joint/Valve Insulation) identified as Homogeneous Area #017 was assumed to contain asbestos. It is located in Functional Space #7. There are approximately 3 each of debris (joint/valve insulation) in a significantly damaged condition. The recommended response action for this material is remove.

The Fire Doors (Blue) identified as Homogeneous Area #038 were assumed to contain asbestos. It is located in Functional Spaces #3 and #9. There are approximately 34 each of fire doors in a good, non-friable condition. The recommended response action for this material is remove.

The Fire Doors (Wood Pattern) identified as Homogeneous Area #041 were assumed to contain asbestos. It is located in Functional Space #3. There are approximately 3 each of fire doors in a good, non-friable condition. The recommended response action for this material is remove.

RESPONSE ACTION O&M

50% chrysotile asbestos. It is located in Functional Spaces #1, #2, #3, #4, #5, and #7. There are approximately 305 each of The Joint/Valve Insulation (on Fiberglass Line / 2.5" Diameter) identified as Homogeneous Area #002 contains approximately joint/valve insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance.

The Joint/Valve Insulation (on Fiberglass Line / 3" Diameter) identified as Homogeneous Area #003 contains approximately 50% chrysotile asbestos. It is located in Functional Spaces #1, #2, #3, #4, #5, and #7. There are approximately 82 each of joint/valve insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance.

The Joint/Valve Insulation (on Fiberglass Line / 5" Diameter) identified as Homogeneous Area #005 contains approximately 5% amosite asbestos. It is located in Functional Spaces #1, #3, and #4. There are approximately 42 each of joint/valve insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance.

The Joint/Valve Insulation (on Fiberglass Line / 6" Diameter) identified as Homogeneous Area #006 contains approximately 3% chrysotile and 5% amosite asbestos, respectively. It is located in Functional Spaces #1, #3, #4, #5, #7, and #9. There are approximately 93 each of joint/valve insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance. There are approximately 3 each of joint/valve insulation in a significantly damaged condition. The recommended response action for this material is remove.

The Tank Insulation (Cal/Mag / 13" Diameter Receiving Tank) identified as Homogeneous Area #008 contains approximately 20% chrysotile and 8% amosite asbestos, respectively. It is located in Functional Space #1. There is approximately 30 square feet of tank insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance.

The Joint/Valve Insulation (on Fiberglass Line / 8" Diameter) identified as Homogeneous Area #007 contains approximately 3% amosite asbestos. It is located in Functional Space #1. There are approximately 6 each of joint/valve insulation in a good, non-friable condition. The recommended response action for this material is operations and maintenance. There are approximately 6 each of joint/valve insulation in a damaged condition. The recommended response action for this material is repair.

The University will need to work with an asbestos consultant in determining whether to abate selected areas where construction occurs versus total asbestos abatement.

41. Lead paint or other hazardous materials have not been investigated in this facility for this report; however, there is a probability they exist; therefore, the University may wish to have a separate consultant test certain products to determine whether lead paint does exist.
 - A. The University may desire to test areas of the building where modifications during renovation occur versus a total lead paint abatement program.
42. A new radon removal exhaust system shall be installed. This shall include underground-perforated piping in stone, improvement of vapor barriers, vertical piping, and exhaust fans.

EDUCATIONAL UPGRADES AND PROGRAM REQUIREMENTS

Meetings and a tour of the facility were held with staff from the three Departments to discuss the potential for alterations and upgrading, and to explore possible changes in developing the program.

As part of this evaluation, a review of educational trends, future technologies, current learning strategies, and functional activities must be considered as criteria to judge the existing facility and determine its long-range usefulness.

Technology will place the following long-range goals on the facility:

Microcomputers located in every individual classroom and faculty office/staff location.

Networking with state, national, and international databases.

Building design efforts will need to consider improved air conditioning and massive utility system upgrades.

43. Campus communication and security are other areas of concern.

- In each telecommunications closet provide backboards, equipment racks and enclosures, wire management, power conditioning, dedicated panelboards, receptacles and lighting in accordance with University standards.
- Provide a vertical pathway consisting of not less than three 4-inch conduits from each telecommunications closet to the closet on the floor above. Provide a pathway consisting of not less than six 4-inch conduits from the exterior duct bank to the telecommunications closet on the lowest level.
- Provide horizontal pathways on each level of the building consisting of cable trays, conduits, conduit sleeves and cable supports from the telecommunications closet to each space containing telecommunications equipment or jacks.
- Provide fiber optic and copper backbone and work station cabling in accordance with University standards.
- In each corridor provide one or more receptacles and data jacks mounted in the ceiling cavity as necessary to serve wireless hubs for computers in offices and faculty offices.
- In each space designated as an office or faculty office provide data, voice and television distribution jacks in accordance with University standards. Provide a minimum of one duplex receptacle on each of three walls and one quad receptacle on the wall closest the desk.
- In each space designated as a classroom or lab, provide two dedicated duplex receptacles and two data jacks to support charging station/hubs for notebook computers.
- In each space designated as a (smart) classroom provide the receptacles and communications cabling and jacks necessary to support a smart podium, ceiling mounted LCD projector and plasma screen (at designated locations only) in accordance with University standards. At the front of the space provide jacks for data, voice and television distribution. (Note: each smart podium will contain a computer, VCR and CD player.)

- In each space designated as a computer lab, provide one duplex receptacle and two data jacks at each student workstation. Provide three duplex receptacles and six data jacks at designated locations for scanners, printer and other peripheral equipment.
 - In each space designated as a computer classroom, provide one duplex receptacle and two data jacks at each student workstation. Provide three duplex receptacles and six data jacks at designated locations for scanners, printer and other peripheral equipment. Provide communications cabling and jacks necessary to support a smart podium, ceiling mounted LCD projector and plasma screen (at designated locations only) in accordance with University standards. At the front of the space provide jacks for data, voice and television distribution. (Note: each smart podium will contain a computer, VCR and CD player.)
 - At each lecture hall provide the receptacles and communications cabling and jacks necessary to support a smart podium, ceiling mounted LCD projector and plasma screen (at designated locations only) in accordance with University standards. At the front of the space provide jacks for data, voice and television distribution. (Note: each smart podium will contain a computer, VCR and CD player.) Provide a sound system with hearing assistance. Provide receptacles and data jacks in the ceiling cavity for two wireless hub antennas.
 - Extend a cable television trunk line from the MCT/Dauphin Addition to new MDF Room. Provide distribution equipment, as required, and TV jacks in all offices, teaching spaces and lobbies.
 - Provide a communications pathway from the new telecom room (MDF) on the lowest level of Dauphin Humanities Center to the MCT/Dauphin Addition consisting of a minimum of six 4" conduits in a duct bank. Provide manholes outside Dauphin Hall and the MCT as a transition between the duct bank between the buildings and the interior conduits.
 - Provide card access on all doors accessing classrooms, labs, and lecture halls.
44. The existing three faculty offices, located in a renovated classroom on the ground floor, should be converted back to a classroom. The three faculty offices should be relocated to an addition and located on the second floor with the History and Philosophy Department.
45. A student lounge should be provided in the addition to serve the student population in this facility.
46. A small Internet cafe should be provided in the addition to serve the population in the facility. A location at grade would be best and provide an advantage of an adjacent outside area for casual seating.
47. A suite of office space should be provided for the Dean of Arts and Sciences currently located in Old Main.
48. Appropriate telecom/data closets should be provided on each floor.

The following is the summary of the collective thoughts, observations, and concerns of the administrators, supervisors, and key staff for the design requirements for these three Departments to fit into the existing physical plant. This program was written by University staff to be used as a guide in developing the renovation program:

▪ **DEPARTMENT OFFICES**

Office to have a walk-in reception area for students, parents, and visitors separate from the actual office area.

Secretary's Office and Reception Area must have as many windows as possible.

Work Room Area has storage for general supplies.

▪ **CLASSROOM/SEMINAR**

Give teachers educators the ability to go well beyond the standup and lecture method of teaching, including state of the art approaches in their curriculum. Provide full multimedia capabilities for presenting complex modern topics (sound, video, images, and text).

Each classroom will contain the following furnishings: a desk and chair for the instructor, portable lectern, 40 movable table armchairs, multimedia equipment in lockable units, ceiling-mounted projection screen, and 20 ft. of marker board on front wall.

▪ **FACULTY OFFICE**

The office must accommodate the following furnishings: a desk, and comfortable chair, space for computer terminal and printer, 12 lin. ft. of base storage cabinets with shelving above to the ceiling, a marker board and two side chairs, some type of space for files with top tabs, a wastebasket, and recycling bin.

Natural lighting is required in the office and artificial lighting by means of fluorescent lamps fixtures.

Computer outlets are to have surge suppression. The climate control in the office will be maintained for year-around use. Room temperature will be in the comfort zone, as described in ANSI/ASHRAE 55-1992. Outdoor air will be maintained to meet ANSI/ASRAE 62-1989; Table 2.

▪ **STUDENT ACTIVITY AREAS (LOUNGE/CORRIDOR)**

- Areas capable of seating small groups (formal and informal).
- Area to be flexible, with the ability to expand several smaller rooms into one large area.
- Several storage cabinets, lockable.
- Tables and chairs.
- Several bookcases.
- Markerboard and Tackboard.

- **DINING/FOOD SERVICE (INTERNET CAFE)**
 - Areas should be bright, attractive, and flexible.
 - Room will be used for large assembly and should contain a small stage for dramatic programs and other presentations.
 - The acoustics and lighting must be designed to accommodate the varied activities (eating, assembling, etc.).
 - The kitchen and serving areas should be adjacent and provide two ways of entry/exit.
 - Minimum storage for cooking equipment, foodstuff (both refrigerated and dry), dining furniture, and other activity equipment.
 - Access to the outside.
 - Provide an outside area for smoking at a convenient location, but not at or near the entrance, or wherever smoke could enter the building.

- **DEAN OF ARTS AND SCIENCES**

The programming guidelines for the suite of rooms would include the Dean's Office at 200 nsf, Associate Dean's Office at 175 nsf, administrative assistants office at 150 nsf, and the administrative office/waiting area at 600 nsf. The layout of the suite should allow control of movement of visitors to eliminate the opportunity of walking directly into interior offices.

- **MAIN DISTRIBUTION FRAME (MDF) ROOM**

Provide a central location for all electronic equipment to serve the distribution of voice, video and data. The location should allow good vertical distribution and use the following guidelines:

The telecommunication rooms shall house racks, voice termination fields and required cable routing hardware. Racks shall be placed in a manner that will allow a minimum of 3 feet of clearance from the front and rear mounting surfaces. If one mounting rail of the rack is placed against a wall, the mounting rail shall be no closer than 6" to the wall to allow room for vertical management. Where there is more than one rack, the racks shall be ganged with vertical management hardware to provide interbay management. Ganged rack frames will be placed in a manner that will allow a minimum of 3 feet of clearance from the front and rear mounting surfaces and on one side of the ganged assembly.

The number of Communications Rooms will depend on the number of end user locations and the distance from any given location to the Communications Room. The maximum distance between the faceplate and the Communications Room termination is 295 feet.

- Minimum communications room size is 11' x 17'
- Minimum of two 4" sleeves from the communications room to the horizontal infrastructure (more as required by NEC fill requirements).
- Four 20 amp, 110 volt, circuits with isolated grounds. Each circuit will terminate in a quad outlet (location to be determined). One 110 volt circuit terminated with a twist-lock receptacle.
- Environmentally conditioned (air conditioning)

- No ceiling is to be installed
- Non static asphalt tile floor
- Four 2 bulb fluorescent light fixtures (location to be determined by CNS)
- Grounding bus detail rated at 100 amps with a minimum of 5 termination points entrance to be secured with a mortised combination lock.
- Tie into building fire detection/prevention system
- Both vertical and horizontal penetrations are to be fire stopped
- If the building has an emergency generator (2) 20 amp, 110 volt circuits should be connected to it, one with a twist-lock receptacle and one with a 3-prong standard outlet
- Racks shall be securely attached to the concrete floor using 3/8" hardware
- All racks shall be grounded to the telecommunications ground bus bar
- All station cables in the MDF side shall be terminated on the RACK INSTALLED distribution system with the appropriate number of Krone High Band Kit using 8 pair blocks (Part Number 6468 2 060-00). Consisting of 12 8 pair high bank blocks and an equal number of 105 hinged label holders (Part Number 6089 2 015-01) using paper label sheets (Part Number 6631 3 100-03) housed in a DRONE TYPE 105 MOUNTING BRACKET 21 position (6) PER RACK KRONE PART Number 665 2 450-21/2
- Cross connecting all Telephone and Data services (station, MDF, IDF's) shall be the responsibility of the cabling vendor. The University's project coordinator will provide vendor with cross connect information. All cross connects shall be labeled in accordance with the University's labeling sequence and be permanent, non-fading and machine printed
- The facility shall be equipped with a Telecommunications Bonding Backbone (TBB). This backbone shall be used to ground all telecommunications cable shields, equipment, racks, cabinets, raceways, and other associated hardware that has the potential for acting as a current carrying conductor. The TBB shall be installed independent of the buildings electrical and building ground and shall be designed in accordance with the recommendations contained in the ANSII/TIA/EIA-607-A Telecommunications Bonding and Grounding Standards.

▪ **FACULTY TOILET**

The existing small faculty toilet room on each floor does not meet ADA compliance and should be eliminated to increase the size of the women's toilet room. Consider accommodating a small rest area with the women's toilet room.

▪ **BUILDING SERVICES**

- The cleaning and operating of the facility will require many kinds of equipment and large quantities of supplies.
- A point of delivery and pick up by truck.
- Recyclable storage area.
- Custodial storage closets provided throughout the facility.
- Adequate storage.

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PROPOSED ROOM LIST - DAUPHIN HUMANITIES CENTER

| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|----------------------------------|--------------|------|-------|--|------|-------|-------------|-------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| XX5 | Storage 010 | 1 | 2348 | 2348 | | | | Ground | Create MDF in this Area |
| 710 | MDF 010A | 1 | | | 1 | 200 | 200 | Ground | |
| 441 | Electrical Room 013 | 1 | 544 | 544 | | | | Ground | |
| 442 | Mechanical Room 016 | 1 | 1841 | 1841 | | | | Ground | |
| 305 | Faculty Office 017 | 1 | 120 | 120 | | | | Ground | English Department |
| 305 | Faculty Office 019 | 1 | 115 | 115 | | | | Ground | English Department |
| 110 | Classroom 018 | 1 | 767 | 767 | | | | Ground | |
| 305 | Faculty Office 021,031 | 2 | 98 | 196 | | | | Ground | English Department |
| XX1 | Men Toilet 023 | 1 | 116 | 116 | | | | Ground | |
| XX2 | Women Toilet 025 | 1 | 189 | 189 | | | | Ground | |
| WW4 | Foyer 022 | 1 | 153 | 153 | Renovated 4 existing spaces to 1 new space | | | Ground | |
| 305 | Faculty Office 22A, 22C | 2 | 130 | 260 | | | | Ground | English Department |
| 305 | Faculty Office 22B | 1 | 126 | 126 | | | | Ground | Speech Department |
| 110 | Classroom-Comb. 22,22A, 22B, 22C | 1 | | | 1 | 539 | 539 | Ground | |
| 110 | Computer Lab 026 | 1 | 758 | 758 | | | | Ground | |
| XX3 | Faculty Toilet 027 | 1 | 22 | 22 | | | | Ground | |
| XX4 | Janitor Closet 029 | 1 | 53 | 53 | | | | Ground | |
| WW3 | Elevator/Mechanical 033 | 1 | 73 | 73 | | | | Ground | |
| 110 | Lecture Hall 051 | 1 | 1917 | 1917 | | | | Ground | |
| XX5 | Storage 051A | 1 | 137 | 137 | | | | Ground | |
| XX5 | Storage 055 | 1 | 189 | 189 | | | | Ground | |
| WW2 | Stair 0S1 | 1 | 200 | 200 | | | | Ground | |
| WW2 | Stair 0S2 | 1 | 155 | 155 | | | | Ground | |

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| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|-------------------------------|--------------|------|-------|--------------|------|-------|-------------|-------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| WW3 | Elevator OE1 | 1 | 55 | 55 | | | | Ground | |
| WW2 | Stair OS3 | 1 | 235 | 235 | | | | Ground | |
| WW4 | Vestibule OV3 | 1 | 150 | 150 | | | | Ground | |
| WW4 | Lobby OL1 | 1 | 765 | 765 | | | | Ground | Not part of study |
| WW1 | Corridor OH1 | 1 | 838 | 838 | | | | Ground | |
| | | | | | | | | | |
| 110 | Classroom 102,126 | 2 | 757 | 1514 | | | | First | |
| 305 | Faculty Office 103 | 1 | 239 | 239 | | | | First | English Department |
| 305 | Faculty Office 105,107,109 | 3 | 110 | 330 | | | | First | English Department |
| 110 | Classroom 110,122 | 2 | 656 | 1312 | | | | First | |
| 320 | Work Rm. 111 | 1 | 130 | 130 | | | | First | English Department |
| 320 | Department Office 113 | 1 | 221 | 221 | | | | First | English Department |
| 110 | Classroom 114,118 | 2 | 666 | 1332 | | | | First | |
| 365 | Chairperson Office 115 | 1 | 132 | 132 | | | | First | English Department |
| 110 | Seminar Room 116 | 1 | 382 | 382 | | | | First | |
| 305 | Faculty Office 117 | 1 | 119 | 119 | | | | First | English Department |
| 305 | Faculty Office 119 | 1 | 114 | 114 | | | | First | English Department |
| 305 | Faculty Office 121 | 1 | 105 | 105 | | | | First | English Department |
| XX1 | Men Toilet 123 | 1 | 118 | 118 | | | | First | |
| XX2 | Women Toilet 125 | 1 | 202 | 202 | | | | First | |
| XX3 | Faculty Toilet 127 | 1 | 19 | 19 | | | | First | Not a required function |
| XX4 | Janitor Closet 129 | 1 | 53 | 53 | | | | First | |
| 305 | Faculty Office 131 | 1 | 176 | 176 | | | | First | English Department |

| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|----------------------------|--------------|------|-------|--------------|------|-------|-------------|------------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| 110 | Lecture Hall 151 | 1 | 1917 | 1917 | | | | First | |
| XX5 | Storage 151A | 1 | 137 | 137 | | | | First | |
| XX5 | Storage 155 | 1 | 189 | 189 | | | | First | |
| WW4 | Lobby 1L1 | 1 | 765 | 765 | | | | First | Not part of study |
| WW2 | Stair 1S1 | 1 | 206 | 206 | | | | First | |
| WW2 | Stair 1S2 | 1 | 168 | 168 | | | | First | |
| WW2 | Stair 1S3 | 1 | 164 | 164 | | | | First | |
| WW2 | Stair 1S4 | 1 | 235 | 235 | | | | First | |
| WW3 | Elevator 1E1 | 1 | 55 | 55 | | | | First | |
| WW4 | Vestibule 1V1 | 1 | 93 | 93 | | | | First | |
| WW1 | Corridor 1H1 | 1 | 1755 | 1755 | | | | First | |
| 730 | Storage | 1 | | | 1 | 33 | 33 | First | |
| 710 | IDF | 2 | | | 1 | 64 | 64 | First | |
| 060 | Internet Cafe | 3 | | | 1 | 291 | 291 | First | |
| WW4 | Lobby | 4 | | | 1 | 128 | 128 | First | |
| | | | | | | | | | |
| 305 | Faculty Office 201,203,219 | 3 | 116 | 348 | | | | Second | History/ Philosophy Dept. |
| 110 | Classroom 202 | 1 | 761 | 761 | | | | Second | |
| 305 | Faculty Office 205,207,209 | 3 | 111 | 333 | | | | Second | History/ Philosophy Dept. |
| 110 | Classroom 210,222 | 2 | 656 | 1312 | | | | Second | |
| 320 | Work Room 211 | 1 | 130 | 130 | | | | Second | History/ Philosophy Dept. |
| 320 | Department Office 213 | 1 | 222 | 222 | | | | Second | History/ Philosophy Dept. |
| 110 | Classroom 214, 218 | 2 | 666 | 1332 | | | | Second | |

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DAUPHIN HUMANITIES CENTER
 SHIPPENSBURG UNIVERSITY PA

| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|------------------------|--------------|------|-------|--------------|------|-------|-------------|------------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| 315 | Chairperson Office 215 | 1 | 133 | 133 | | | | Second | History/ Philosophy Dept. |
| 305 | Faculty Office 231 | 1 | 103 | 103 | | | | Second | History/ Philosophy Dept. |
| 110 | Seminar Room 216 | 1 | 383 | 383 | | | | Second | |
| 305 | Faculty Office 217 | 1 | 119 | 119 | | | | Second | History/ Philosophy Dept. |
| 305 | Faculty Office 221 | 1 | 104 | 104 | | | | Second | History/ Philosophy Dept. |
| XX1 | Men Toilet 223 | 1 | 118 | 118 | | | | Second | Not a required function |
| XX2 | Women Toilet 225 | 1 | 203 | 203 | | | | Second | Not a required function |
| 110 | Classroom 226 | 1 | 758 | 758 | | | | Second | Not a required function |
| XX3 | Faculty Toilet 227 | 1 | 19 | 19 | | | | Second | |
| XX4 | Janitor Closet 229 | 1 | 53 | 53 | | | | Second | |
| XX5 | AV Storage 233 | 1 | 70 | 70 | | | | Second | Not a required function |
| WW3 | Elevator 2E1 | 1 | 55 | 55 | | | | Second | |
| WW4 | Lobby 2L1 | 1 | 606 | 606 | | | | Second | Not part of study |
| WW2 | Stair 2S1 | 1 | 190 | 190 | | | | Second | |
| WW2 | Stair 2S2 | 1 | 168 | 168 | | | | Second | |
| WW2 | Stair 2S4 | 1 | 165 | 165 | | | | Second | |
| WW1 | Corridor 2H1 | 1 | 1880 | 1880 | | | | Second | |
| 730 | Storage | 1 | | | 1 | 33 | 33 | Second | |
| 710 | IDF | 2 | | | 1 | 64 | 64 | Second | |
| 650 | Lounge | 3 | | | 1 | 418 | 418 | Second | |
| 305 | Faculty Office | 4-6 | | | 1 | 118 | 118 | Second | Speech Department |
| | | | | | | | | | |
| 305 | Faculty Office 301,303 | 2 | 117 | 234 | | | | Third | Speech Department |

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| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|----------------------------|--------------|------|-------|--------------|------|-------|-------------|------------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| 305 | Faculty Office 319 | 1 | 116 | 116 | | | | Third | History/ Philosophy Dept. |
| 110 | Classroom 302 | 1 | 761 | 761 | | | | Third | |
| 305 | Faculty Office 305,307,309 | 3 | 110 | 330 | | | | Third | Speech Department |
| 110 | Classroom 310,322 | 2 | 656 | 1312 | | | | Third | |
| 320 | Work Room 311 | 1 | 130 | 130 | | | | Third | Speech Department |
| 320 | Department Office 313 | 1 | 222 | 222 | | | | Third | Speech Department |
| 315 | Chairperson Office 315 | 1 | 131 | 131 | | | | Third | Speech Department |
| 110 | Classroom 314,318 | 2 | 666 | 1332 | | | | Third | |
| 110 | Seminar Room 316 | 1 | 383 | 383 | | | | Third | |
| 305 | Faculty Office 317 | 1 | 119 | 119 | | | | Third | Speech Department |
| 305 | Faculty Office 321 | 1 | 105 | 105 | | | | Third | History/ Philosophy Dept. |
| XX1 | Men Toilet 323 | 1 | 118 | 118 | | | | Third | |
| XX2 | Women Toilet 325 | 1 | 203 | 203 | | | | Third | |
| 110 | Classroom 326 | 1 | 758 | 758 | | | | Third | |
| XX3 | Faculty Toilet 327 | 1 | 19 | 19 | | | | Third | Not a required function |
| XX4 | Janitor Closet 329 | 1 | 53 | 53 | | | | Third | |
| 305 | Faculty Office 331 | 1 | 177 | 177 | | | | Third | History/ Philosophy Dept. |
| WW2 | Stair 3S1 | 1 | 190 | 190 | | | | Third | |
| WW2 | Stair 3S2 | 1 | 168 | 168 | | | | Third | |
| WW2 | Stair 3S4 | 1 | 165 | 165 | | | | Third | |
| WW3 | Elevator 3E1 | 1 | 55 | 55 | | | | Third | |
| WW1 | Corridor 3H1 | 1 | 1848 | 1848 | | | | Third | |
| 730 | Storage | 1 | | | 1 | 81 | 81 | Third | Dean of Arts & Sciences |

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 SHIPPENSBURG UNIVERSITY PA

| Category Code | Category Name | Existing NSF | | | Proposed NSF | | | Floor Level | Remarks |
|---------------|------------------------------|--------------|------|-------|--------------|------|-------|-------------|-------------------------|
| | | No. | Area | Total | No. | Area | Total | | |
| 710 | IDF | 2 | | | 1 | 64 | 64 | Third | Dean of Arts & Sciences |
| 305 | Administrative Office | 3 | | | 1 | 600 | 600 | Third | Dean of Arts & Sciences |
| 305 | Dean's Office | 4 | | | 1 | 200 | 200 | Third | Dean of Arts & Sciences |
| 305 | Associate Dean's Office | 5 | | | 1 | 175 | 175 | Third | Dean of Arts & Sciences |
| 305 | Administrative Ass't. Office | 6 | | | 1 | 150 | 150 | Third | Dean of Arts & Sciences |
| 305 | Administrative Ass't. Office | 7 | | | 1 | 150 | 150 | Third | Dean of Arts & Sciences |

| | | | |
|--------------------------|-----------|----------|-----------|
| Ground Floor GSF | 13,901 sf | --- | 13,901 sf |
| First Floor GSF | 13,933 sf | 587 sf | 14,520 sf |
| Second Floor GSF | 10,038 | 1,178 sf | 11,216 sf |
| Third Floor GSF | 10,004 sf | 1,535 sf | 11,539 sf |
| Total GSF | 47,876 sf | 3,300 sf | 51,176 sf |
| Total Assignable SF | 20,295 sf | 2,201 sf | 22,496 sf |
| Total Non-Assignable SF | 15,474 sf | 192 sf | 15,666 sf |
| Total NSF | 43,000 sf | 2,389 sf | 45,389 sf |
| Total Structural Area | 4,876 sf | 911 sf | 5,787 sf |
| Gross SF Factor | 8.98 | 7.24 | 8.87 |
| Assignable SF Percentage | 42.39% | 66.70% | 43.96% |

18 FEBRUARY 2005

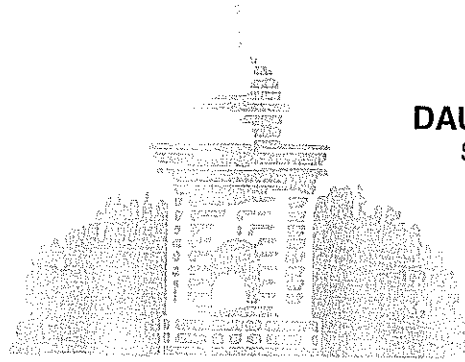
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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY PA

49. Provide parking to accommodate visitors, students, faculty, and staff using this facility and others in the vicinity, per the campus plan envisioned in the Facilities Master Plan.
50. Redesign the service area between Dauphin Humanities Center and Wright Hall to eliminate vehicular access from Dauphin Drive. The proposed new parking lot mentioned above would provide access to the redesigned service area.
51. Redesign pedestrian circulation pathways on west side of Dauphin Humanities Center, per the concepts established in the Facilities Master Plan.
52. Redesign the south end of Dauphin Humanities Center to accommodate new addition, major student plaza, transition into academic quad, per the concepts established in the Facilities Master Plan.

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SHIPPENSBURG UNIVERSITY PA

5.00 EXISTING SITE PLANS

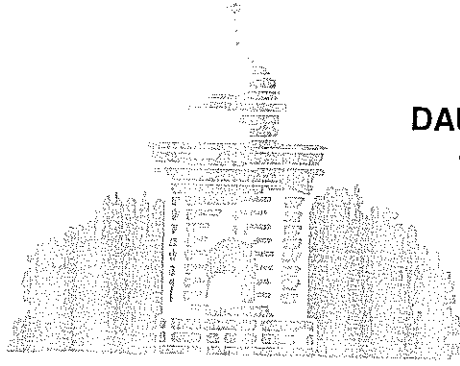


Shippensburg
University

18 FEBRUARY 2005

FACILITY STUDY – SU 2004/15
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SHIPPENSBURG UNIVERSITY PA

6.00 EXISTING FLOOR PLANS



Shippensburg
University

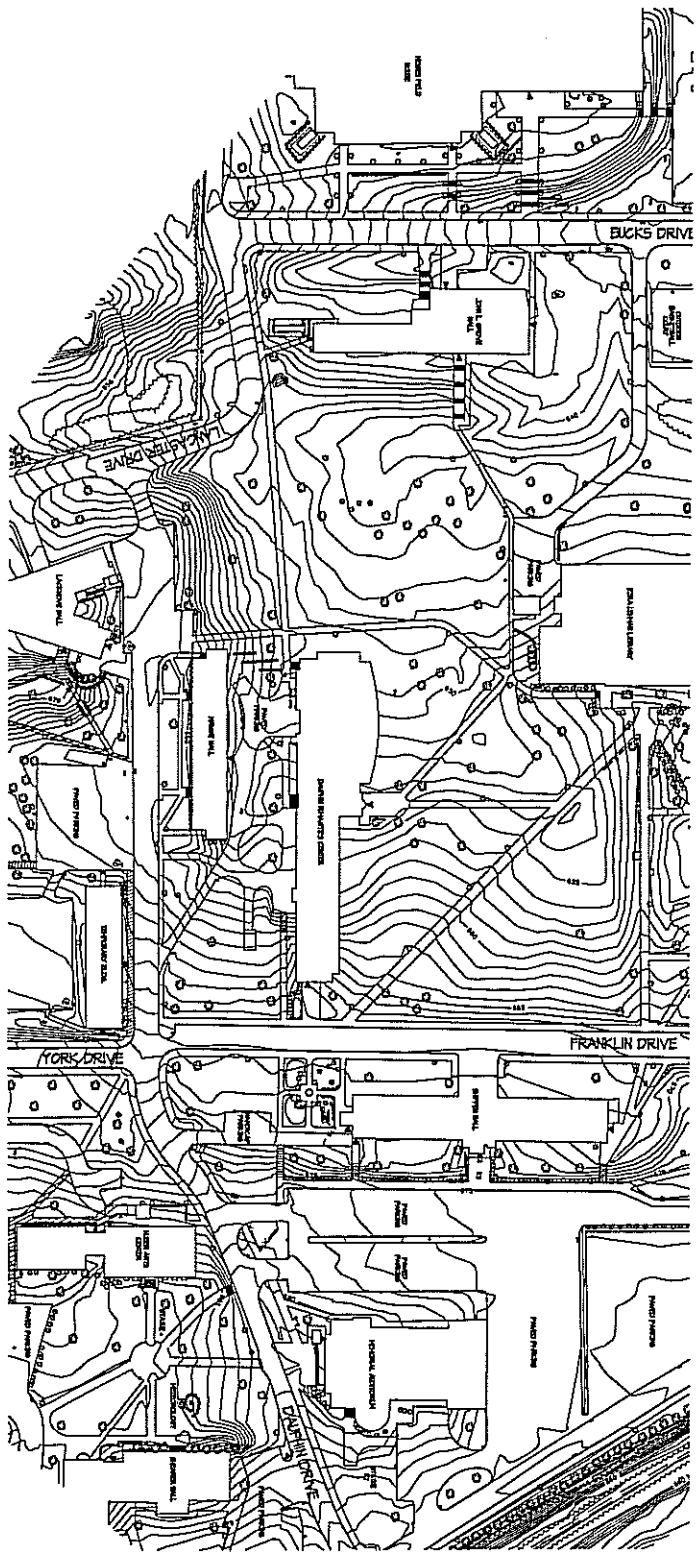


DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
SHIPPENSBURG UNIVERSITY
COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION

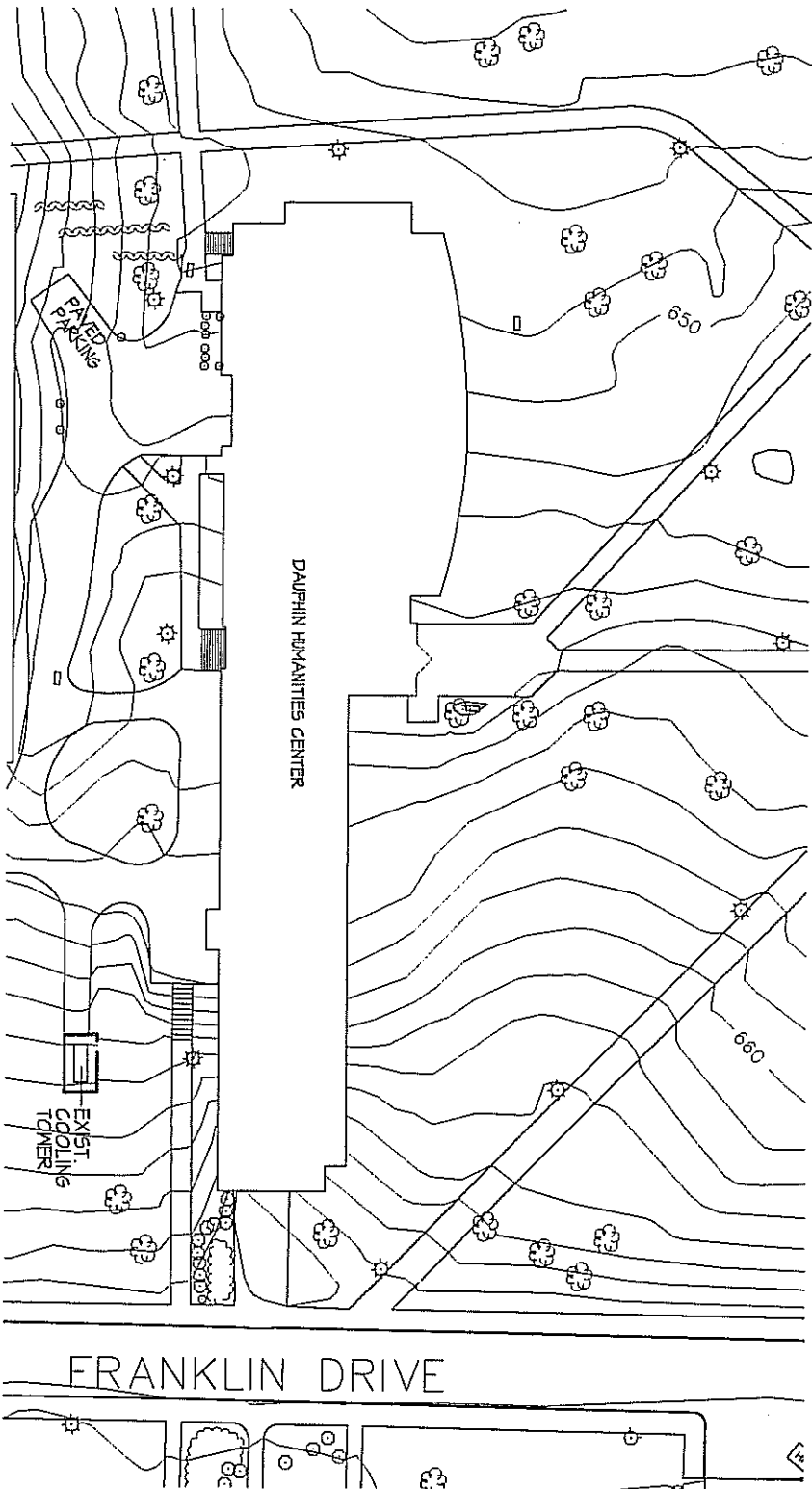


E ASSOCIATES
ARCHITECTS - ENGINEERS - CONSTRUCTORS
200 West Third St., P.O. Box 100
Shippensburg, PA 17257-0100



INDICATE ACCESSIBLE DRIVEWAY

EXISTING PARTIAL CAMPUS PLAN
SCALE: ONE INCH EQUALS FIFTY FEET



EXISTING SITE PLAN
 SCALE OF THE EXISTING PLAN EQUALS ONE FOOT

DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
 SHIPPENSBURG UNIVERSITY
 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



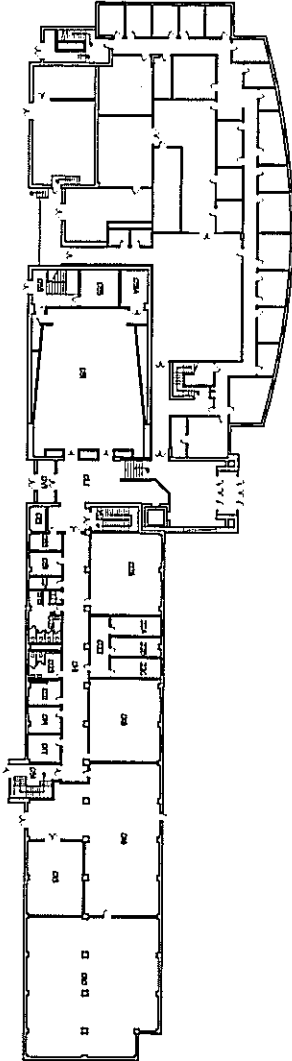
EI ASSOCIATES
 ARCHITECT - ENGINEER - CONTRACTOR
 200 WEST MAIN ST., SUITE 100, HARRISBURG, PA 17104



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 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION

EXISTING GROUND FLOOR PLAN



EXISTING GROUND FLOOR PLAN
 0 10 20 30
 Feet
 0 3 6 9
 Meters

ROOM LEGEND

- 010 STORAGE
- 011 ELECTRICAL ROOM
- 016 MECHANICAL ROOM
- 017 OFFICE
- 018 OFFICE
- 019 OFFICE
- 021 OFFICE
- 022 FOYER
- 023 OFFICE
- 024 OFFICE
- 025 OFFICE
- 026 MEN
- 027 WOMEN
- 028 CLASSROOM
- 029 TOILET
- 030 OFFICE
- 031 OFFICE
- 032 ELEVATOR
- 033 ELEVATOR MACHINE ROOM
- 034 STORAGE
- 035 STORAGE
- 036 STORAGE
- 037 CORRIDOR
- 038 CORRIDOR
- 039 STAIR
- 040 STAIR
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- 100 STAIR

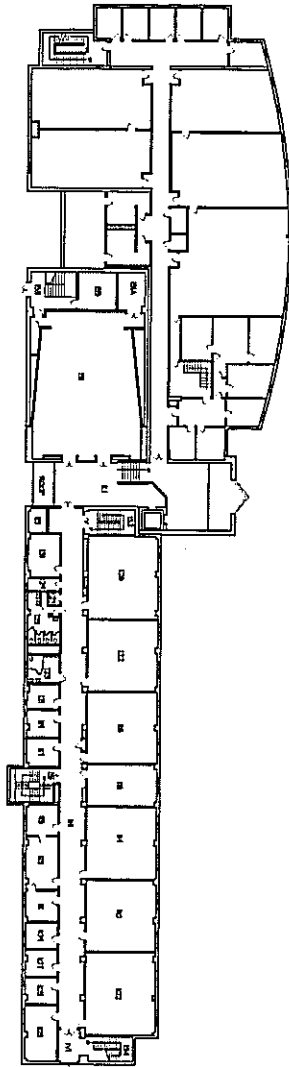


EJ ASSOCIATES
 ARCHITECTS - ENGINEERS - INTERIORS
 200 West 11th St., P.O. Box 1000, York, PA 17403



DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
 SHIPPENSBURG UNIVERSITY
 COMMONWEALTH OF PENNSYLVANIA - STATE SYSTEM OF HIGHER EDUCATION



EXISTING FIRST FLOOR PLAN



EXISTING FIRST FLOOR PLAN
 0 10 20 30 40
 Feet
 Scale: 1/8" = 1'-0"

- ROOM LEGEND**
- 102 CLASSROOM
 - 103 OFFICE
 - 104 OFFICE
 - 105 OFFICE
 - 106 OFFICE
 - 107 OFFICE
 - 108 CLASSROOM
 - 109 CLASSROOM
 - 110 OFFICE
 - 111 BEL. OFFICE
 - 112 CLASSROOM
 - 113 OFFICE
 - 114 OFFICE
 - 115 CONFERENCE ROOM
 - 116 CLASSROOM
 - 117 OFFICE
 - 118 CLASSROOM
 - 119 OFFICE
 - 120 CLASSROOM
 - 121 OFFICE
 - 122 CLASSROOM
 - 123 WOMEN
 - 124 CLASSROOM
 - 125 TOILET
 - 126 CENTRAL CLOSET
 - 127 OFFICE
 - 128 OFFICE
 - 129 OFFICE
 - 130 OFFICE
 - 131 OFFICE
 - 132 STORAGE
 - 133 LOBBY
 - 134 CORRIDOR
 - 135 STAIR
 - 136 STAIR
 - 137 STAIR
 - 138 STAIR
 - 139 VESTIBULE
 - 140 VESTIBULE

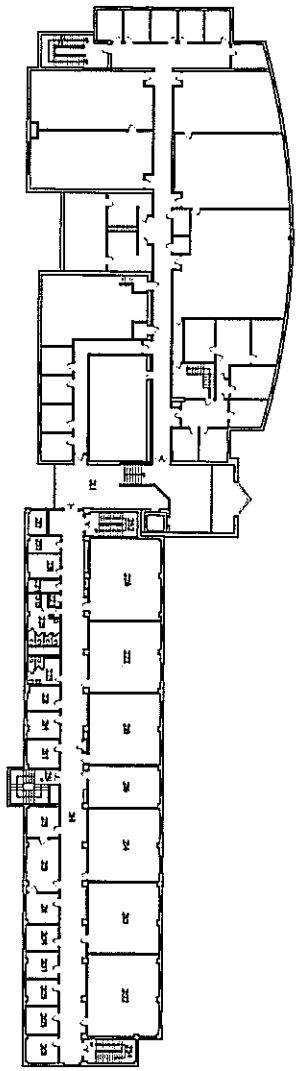


E ASSOCIATES
 ARCHITECTS - ENGINEERS - CONTRACTORS
 220 Park Road, Suite 100, Pottsville, PA 17870-1200

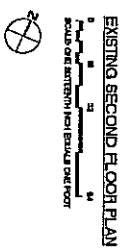


DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
 SHIPPENSBURG UNIVERSITY
 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION



EXISTING SECOND FLOOR PLAN



- ROOM LEGEND**
- 201 OFFICE
 - 202 CLASSROOM
 - 203 OFFICE
 - 204 OFFICE
 - 205 OFFICE
 - 206 OFFICE
 - 207 OFFICE
 - 208 OFFICE
 - 209 OFFICE
 - 210 CLASSROOM
 - 211 OFFICE
 - 212 CLASSROOM
 - 213 CLASSROOM
 - 214 CONFERENCE ROOM
 - 215 OFFICE
 - 216 CLASSROOM
 - 217 OFFICE
 - 218 CLASSROOM
 - 219 OFFICE
 - 220 CLASSROOM
 - 221 CLASSROOM
 - 222 MEN'S TOILET
 - 223 WOMEN'S TOILET
 - 224 CLASSROOM
 - 225 TOILET
 - 226 MEN'S CLOSET
 - 227 OFFICE
 - 228 ATTENDANCE
 - 229 CORRIDOR
 - 230 LOBBY
 - 231 STAIR
 - 232 STAIR
 - 233 STAIR
 - 234 STAIR
 - 235 ELEVATOR



E.I. ASSOCIATES
 ARCHITECTURE - INTERIOR DESIGN - CONSTRUCTION
 200 Park Ave. S. - Newark, N.J. 07102-3248



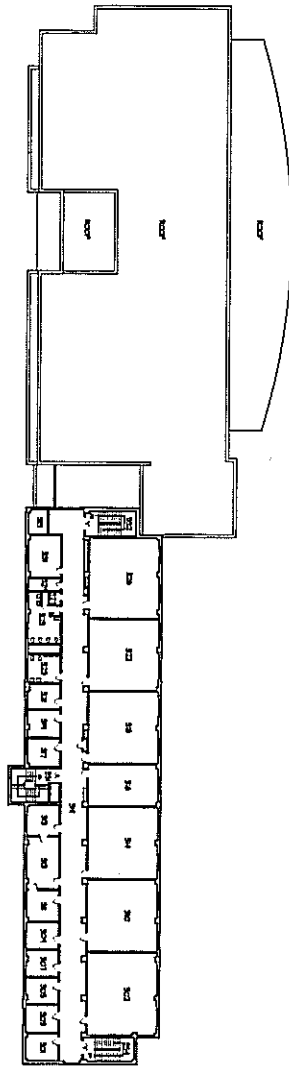
DAUPHIN HUMANITIES CENTER FEASIBILITY STUDY

FOR
SHIPPENSBURG UNIVERSITY
 COMMONWEALTH of PENNSYLVANIA - STATE SYSTEM of HIGHER EDUCATION

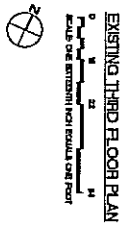


E-I ASSOCIATES
 ARCHITECT, INTERIOR, CONSULTING
 200 Park Lane, 3rd. Floor, PA 17178 (717) 231-2128

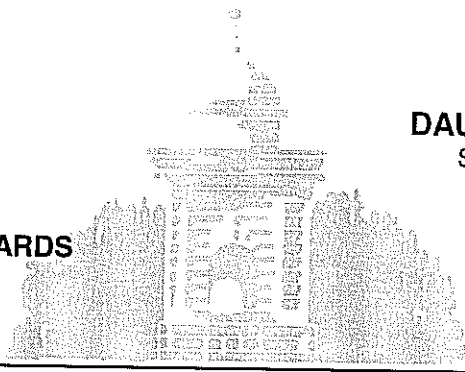
EXISTING THIRD FLOOR PLAN



- ROOM LEGEND**
- 301 OFFICE
 - 302 CLASSROOM
 - 303 OFFICE
 - 304 OFFICE
 - 305 OFFICE
 - 306 OFFICE
 - 307 CLASSROOM
 - 308 CLASSROOM
 - 309 CLASSROOM
 - 310 CLASSROOM
 - 311 OFFICE
 - 312 OFFICE
 - 313 CONFERENCE ROOM
 - 314 OFFICE
 - 315 OFFICE
 - 316 CLASSROOM
 - 317 OFFICE
 - 318 CLASSROOM
 - 319 OFFICE
 - 320 CLASSROOM
 - 321 CLASSROOM
 - 322 WORKING TOILET
 - 323 CLASSROOM
 - 324 CLASSROOM
 - 325 HALL
 - 326 HALL
 - 327 HALL
 - 328 STAIR
 - 329 STAIR
 - 330 STAIR
 - 331 STAIR
 - 332 STAIR
 - 333 STAIR
 - 334 STAIR
 - 335 STAIR
 - 336 STAIR
 - 337 STAIR
 - 338 STAIR
 - 339 STAIR
 - 340 STAIR
 - 341 STAIR



EXISTING THIRD FLOOR PLAN
 Scale: 1/8" = 1'-0"



7.00 DESIGN CRITERIA/STANDARDS

ADA STANDARDS

As part of the upgrading and alteration of Dauphin Humanities Center, the University's requirements for ADA compliance should reflect the overall integration of people who may wish to participate in activities within these facilities, and who may be on staff servicing these facilities. The University may wish to review its policy, procedure, and practice, with regard to staff at this facility. The physically challenged patron should have the ability to gain entry and be routed to seating easily for learning experiences. The required number of seats for the disabled should be located around parameters to allow for a maximum of seating location choices. There should be a minimum of travel time required between the large group lecture room, classrooms, office areas, restrooms, self-service water fountains, and public telephones.

1. The building does not have elevator that meets all the requirements for ADA compliance.

Provide elevator upgrades for ADA compliance including connection to stand-by power.
Estimated cost\$12,000.00

2. Provide proper signage to identify handicapped entry.

Provide exterior signage with the use of international symbols to meet the needs of both people with disabilities and patrons from all parts of the country and the world. Graphics and lettering should effectively communicate location and the purpose of the space. Often, existing signs are not visibly useful for mapping one's way throughout a facility with independence.
Estimated cost.....\$1,000.00

3. Interior signage, together with the use of international symbols, must meet the needs of both people with disabilities and patrons from all parts of the country and the world. Graphics and lettering should effectively communicate location and the purpose of the space. Often, existing signs are not visibly useful for mapping one's way throughout a facility with independence.

Upgrade signage to comply with ADA Standards.
Estimated cost.....\$3,000.00

4. The existing toilet facilities do not meet current disabled persons codes.

Upgrade toilet rooms on each floor to meet ADA standards.
Estimated cost.....\$230,000.00

5. The existing water coolers do not meet current disabled persons codes.
Install new water coolers on each floor to meet ADA standards.
Estimated cost.....\$32,000.00
6. All doors, which will be used by the disabled, shall have lever-type hardware. All hardware should be operable with one hand, taking into consideration the grip and grasp-strength of the individual.
Install new hardware.
Estimated cost.....\$43,500.00
7. The existing fire extinguishers do not meet current disabled persons codes.
Lower fire extinguishers to meet ADA standards.
Estimated cost.....\$6,500.00
8. The current disabled persons code requires an area of refuge on the upper floor levels in new construction, which the University wishes to meet in existing structures.
If sprinklers are not installed, upgrade stair towers to meet ADA standards with intercom system and internally illuminated signs.
Estimated cost.....\$20,000.00
9. All controls necessary for events should be positioned to accommodate the disabled. Plan for people's needs, both specially and electronically. Controls on any equipment provided by the facility to increase interaction should have panel buttons arranged in an understandable order. No buttons should be higher than 4 ft. above the floor for a front approach in a wheelchair, or 4 ft. 6 in. for a side approach. All buttons should have a raised tactile surface. Buttons should light up when engaged.
Install new fire alarm system to meet ADA standards and extend conduit to provide new boxes and wiring to lower devices.
Estimated cost.....\$46,250.00
10. The two large lecture rooms are not accessible by handicapped uses, either faculty or students.
Cut doorways into front of each lecture hall from computer center and corridor system in MCT and infill stepped risers in lecture room on second floor to create constant sloped floor.
Estimated cost.....\$40,000.00

L & I/IBC 2003 COMPLIANCE

11. The current Department of Labor and Industry, and IBC Codes, require walls between classrooms, offices, and other rooms to be separated from corridors by a one-hour fire-rated wall. Replace all corridor doors with fire-rated doors, frames, and hardware. Close all openings with one-hour fire-rated construction and provide fire dampers in ductwork passing through these walls. Instead install an automatic fire suppression system or obtain a variance from Industrial Board of the Department of Labor and Industry.
- Install an automatic fire suppression system with fire pump.
Estimated cost.....\$215,000.00
- Apply for variance at Industrial Board. (or install automatic fire suppression system)
Estimated cost..... \$500.00
12. To be assured of optimum safety, interior finishes deemed not to comply with current flame spread standards should be removed.
- Without testing, all finishes judged to comply.
Estimated cost..... N/A
13. The amount of existing emergency lighting and exit devices do not meet code.
- Upgrade system to comply with code, including new generator and emergency power distribution system.
Estimated cost.....\$125,000.00
14. The stair tower railing systems do not meet the current IBC code.
- Upgrade railing system to comply with code.
Estimated cost.....\$30,000.00
15. The interior glazing does not appear to meet safety glass standards.
- Upgrade all glass to meet standards.
Estimated cost.....\$5,000.00
16. The existing water service is not equipped with a backflow preventor valve.
- Install a new backflow preventor valve on the water service.
Estimated cost.....\$10,000.00

- 17. Fire alarm system is not addressable nor is it ADA compliant.

Replace the existing fire alarm system with a Siemens MXL addressable fire alarm system to match the existing campus system upgrades.

Estimated cost.....See Item No. 9

- 18. Upon reviewing 2003 International Plumbing Code, it appears the minimum number water closets and sinks required per floor is three and two respectively.

Estimated cost.....See Item No. 4

AESTHETIC UPGRADES

The facility should be enhanced by finishes and designs that exemplify the "state-of-the-art" in public educational accommodations. Finishes of walls should reduce reverberation and echo in event areas, and should add to the focal points. Carpet should support comfortable mobility, without creating resistance to equipment supports (i.e., crutches, canes, wheelchairs, moving AV equipment). Hard floor surfaces should be slip-resistant (0.6 coefficient wet/dry). Ceilings should maximize reflectance. Color contrasts between different surfaces should be distinct between floors, walls, and ceilings. Color should guide the eye from dark to light, to the focal points of events. The lightest areas in the large lecture hall should be where speakers, presentations, projected images, and events are positioned. Material selection should also consider durability and maintenance.

- 19. In regard to the appearance of the facility, it is showing its age and needs to be addressed. Some of the existing exterior doors are original and are showing signs of deterioration.

Remove existing and replace with new doors, frames, and hardware.

Estimated cost.....\$47,000.00

- 20. Corridor ceilings are in poor condition.

Remove existing system and replace with new.

Estimated cost.....\$50,000.00

- 21. The existing floor in classrooms, faculty offices, and Department offices are original and showing signs of deterioration.

Remove existing and replace with new VCT flooring.

Estimated cost.....\$80,000.00

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SHIPPENSBURG UNIVERSITY PA

22. The floor coverings in corridors and stairs have damaged areas.
Remove existing and install new.
Estimated cost.....\$12,150.00
23. The acoustical tile lay-in ceilings in the classrooms and offices are damaged.
Remove existing and install new.
Estimated cost.....\$21,000.00
24. The toilet partitions are original and are showing signs of deterioration.
Remove existing and install new.
Estimated cost.....\$20,000.00
25. The chalkboards and tackboards in the classrooms are in fair condition.
Remove existing and replace with new marker boards.
Estimated cost.....\$30,000.00
26. Ceramic tile floors and wainscots in the toilet rooms are showing minor damage.
Replace all damaged tile, and cut-out and regrout all damaged joints.
Estimated cost.....See Item No. 4
27. There is minor damage to some toilet fixtures and trim.
Replace all damaged fixtures and trim.
Estimated cost.....See Item No. 4
28. There is minor deterioration of brickwork
Repair, repoint, and clean exterior brickwork.
Estimated cost.....\$55,000.00
29. The interior doors are showing signs of deterioration and wear.
Provide new solid core wood doors meeting code requirements.
Estimated cost.....\$60,000.00
30. The elevator cab is showing signs of wear.
Upgrade floor, wall, and ceiling finishes, as well as lighting.
Estimated cost.....\$9,000.00

31. The Lecture Rooms are original and showing signs of wear.

Upgrade seating, wall, floor, and ceiling finishes.

Estimated cost.....\$110,000.00

PERFORMANCE UPGRADES

An increase in the performance characteristics of several of the buildings' component systems, due to age and condition of existing system or a need to improve efficiency, causes the following upgrades:

32. The windows are the original aluminum windows, with single glazing and not energy-efficient.

Remove existing and install new window system that is energy-efficient, with insulated glass.

Estimated cost.....\$365,000.00

33. The heating and ventilating system is original and is showing signs of deterioration.

Remove existing equipment, piping, ductwork, and install new system to comply with the latest ASHRAE Standard 62 ventilation requirements and PA Building Energy Conservation Act 222.

Estimated cost.....\$891,750.00

34. The existing temperature control system is antiquated.

Remove existing control system and install new DDC system and chiller and cooler tower equipment.

Estimated cost.....\$325,000.00

35. The existing domestic water piping distribution system is original and needs to be replaced.

Remove existing plumbing equipment and piping, and replace with new.

Estimated cost.....\$205,000.00

36. The existing electric service and panels are not sufficient for current or future educational requirements.

Increase the capacity of the electrical service and panels to accommodate projected requirements.

Estimated cost.....\$468,300.00

- 37. The current lighting in the instructional spaces and faculty offices is insufficient for current needs.

University is working with Energy Saving Contractor to provide new lighting throughout the building with energy-efficient fluorescent light fixtures using T8 lamps and electronic ballasts. However, some miscellaneous lighting may not be included.

Estimated cost.....\$10,000.00

Provide motion sensor in each classroom and office to turn the lighting off when the space is not occupied.

Estimated cost.....\$29,600.00

- 38. The existing intercom and program bell systems for the building are obsolete and nonoperational.

Provide new intercom/clock system with telephone handsets.

Estimated cost.....\$27,000.00

- 39. The existing classrooms, faculty offices, and other spaces have insufficient outlets for current educational/technology requirements.

Install additional outlets and related circuits.

Estimated cost.....\$60,000.00

Provide additional switches to allow two levels of lighting in front and rear zones of each classroom.

Estimated cost.....\$11,000.00

HAZARDOUS MATERIALS

- 40. The Design Professional will need to survey the building to determine the extent of asbestos abatement/removal. (Volz Environmental Services, Inc. estimated to remove all ACM was \$981,591.00 in 1996 and included individual cost information per item).

The building has asbestos-containing materials.

Estimated cost.....\$1,366,000.00

- 41. Lead paint and other hazardous materials were not investigated in this study; therefore based upon the University's experience with similarly aged facilities; specific tests should be completed during Design Phase.

Estimated cost..... N/A

- 42. The existing radon removal exhaust system needs upgrading.

Install new radon removal exhaust system.

Estimated cost.....\$20,000.00

EDUCATIONAL UPGRADES AND PROGRAM REQUIREMENTS

Due to the limited expanded educational program for the Dauphin Humanities Center and the demand for building usage, classroom technology, and development of educational goals, the following suggested improvements are identified. (Numbers contained within parentheses are referenced on proposed plans that follow this text.):

Renovations:

Many of the existing spaces are undersized for many of the new classrooms and do not provide the opportunity for observation rooms between classrooms, nor does the existing configuration allow for other expanded or new educational programs.

- 43. Building has been previously wired for technology, however, at this time of renovations these systems need to be reconfigured and expanded.
Estimated cost.....\$446,800.00
- 44. Three faculty offices on ground floor were created from converted classroom.
Convert faculty offices back into original classroom.
Estimated cost.....\$30,000.00
Provide for three faculty offices for the History and Philosophy Department.
Estimated cost..... See Below

Addition:

- 45. Building lacks student lounge space.
Provide student lounge in new addition.
Estimated cost..... See Below
- 46. Building lacks common area for Internet access, as well as light refreshments.
Provide for Internet cafe in new addition
Estimated cost..... See Below
- 47. Dean of Arts and Sciences currently located in Old Main may need to relocate.
Provide for Dean of Arts and Sciences in new addition.
Estimated cost..... See Below

48. Building lacks adequate space for telecom/data closets and Main Distribution Room.

Provide new telecom/data closets in new addition and MDF in Storage Room 010.

Estimated cost..... See Below

Estimated cost.....\$675,000.00

Site:

This renovation project may be the appropriate time to start to incorporate some of the concepts for parking, green space, pedestrian circulation, and other exterior improvements per the University Facilities Master Plan developed in September 1998, and updated in January 2002.

49. Campus lacks adequate parking at key areas.

Per the campus vehicular circulation and parking improvements provide 90 parking spaces adjacent to Dauphin Humanities Center and Grove Hall.

Estimated cost.....\$90,000.00

Provide curbing around new parking lot.

Estimated cost.....\$15,000.00

Provide lighting for new parking lot and driveway with eight poles matching campus standards.

Estimated cost.....\$30,000.00

50. Access to the service area between Dauphin Humanities Center and Write Hall is from Dauphin Drive, which is due to be removed per the University Facilities Master Plan.

Redesign service area and provide access from new parking lot.

Estimated cost.....\$20,000.00

51. Pedestrian movement on the west side of Dauphin Humanities Center is not developed per the University Facilities Master Plan.

Redesign walks and landscaping improvement per the University Facilities Master Plan.

Estimated cost.....\$20,000.00

52. The entrance plaza and present small parking area on the south end of the Dauphin Humanities Center are not developed per the University Facilities Master Plan.

Redesign entrance plaza and pedestrian pathways per the proposed addition and the University Facilities Master Plan.

Estimated cost.....\$25,000.00

Provide pedestrian lighting matching campus standards.

Estimated cost.....\$15,000.00

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8.00 SUMMARY - SCHEDULE

The primary purpose of this document is to define the scope, describe, and fix all important aspects of the Project so all that remains is the formal step of Design Documents for bidding.

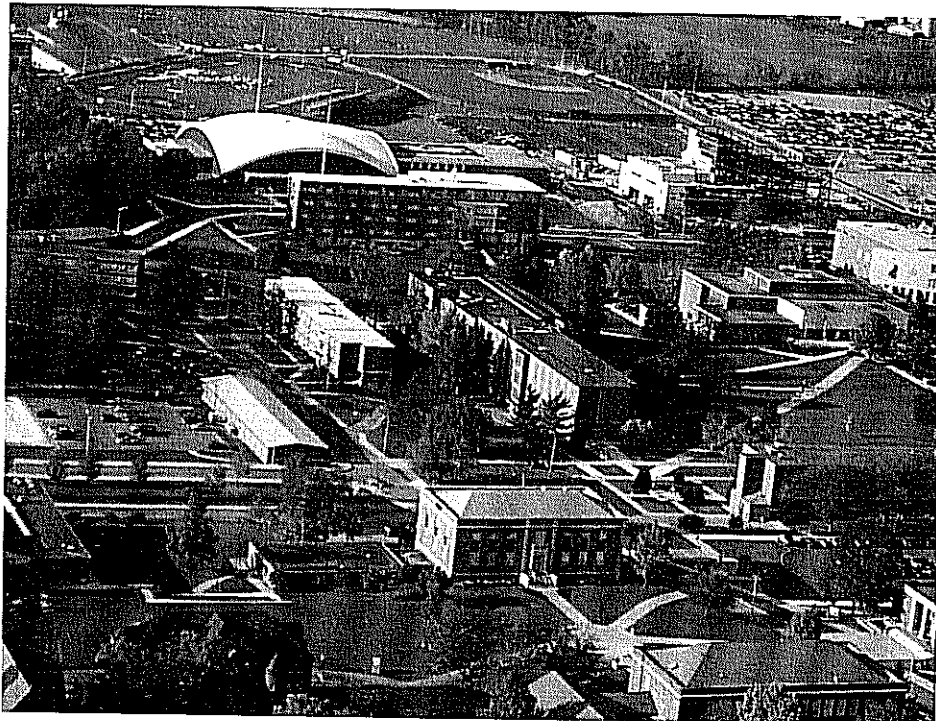
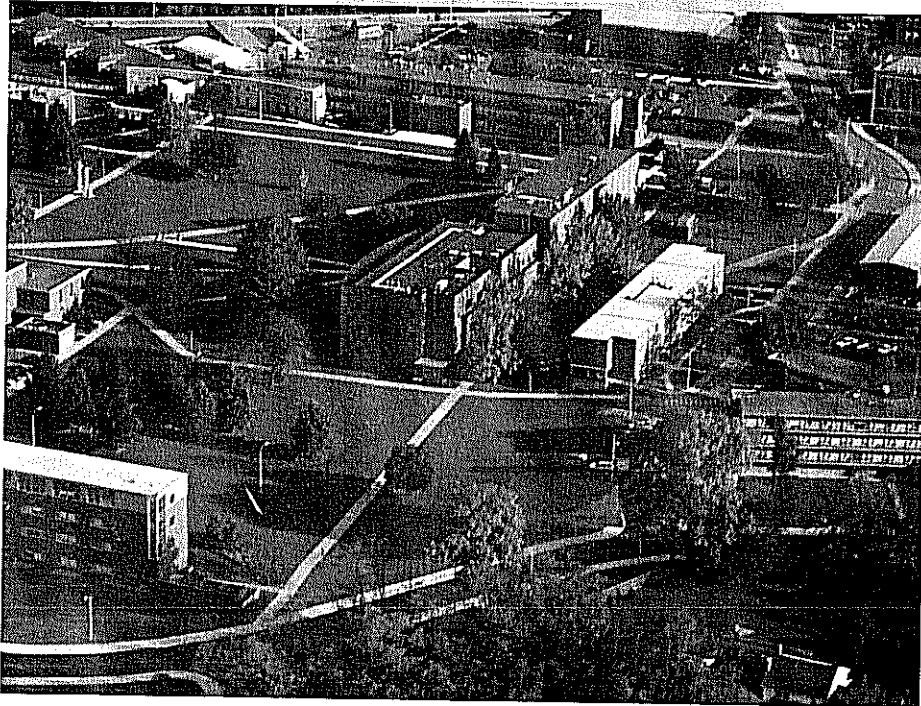
Outline of the following schedule suggests the start and completion dates of the proposed Dauphin Humanities Center:

| | | | |
|---|----|-----|------|
| Submit RFP to State System of Higher Education | 28 | Dec | 2004 |
| University Submit Final Facilities Detailed Project Planning Document | 01 | Feb | 2005 |
| DGS Start Selection Process for A & E Firm | 01 | Feb | 2005 |
| Start Design Phase | 01 | Mar | 2005 |
| Design Development/Contract Documents Completion | 01 | Feb | 2006 |
| Advertise for Bids | 01 | Feb | 2006 |
| Notice to Proceed/Start Construction | 01 | May | 2006 |
| Complete Construction/Occupancy (12 months) | 01 | May | 2007 |

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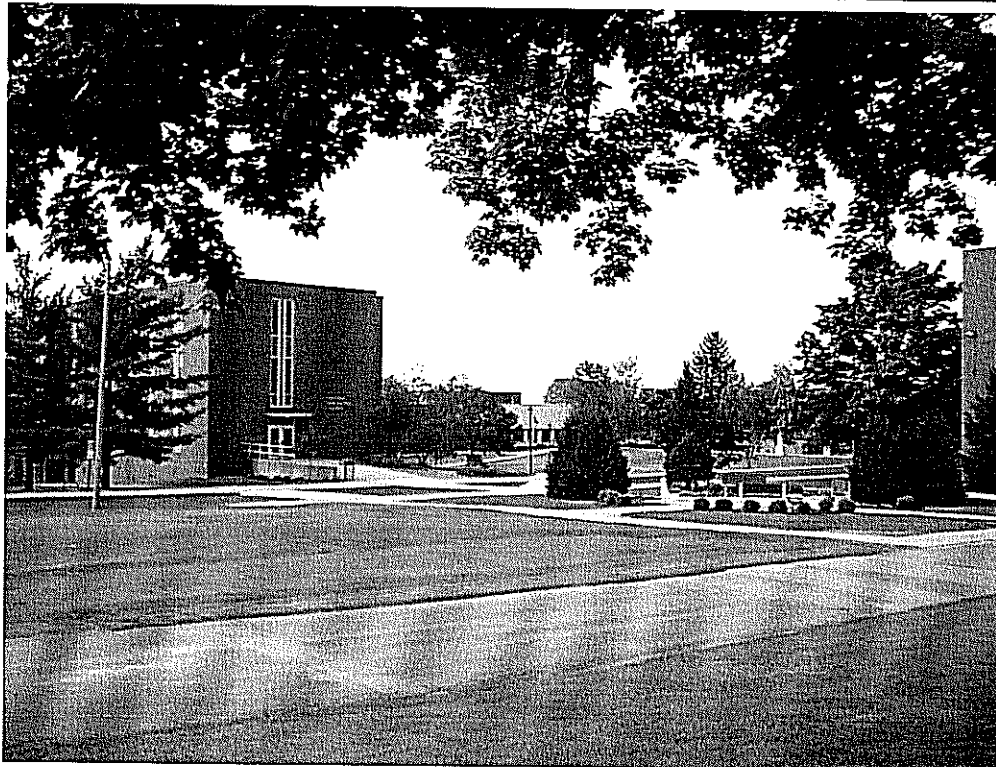
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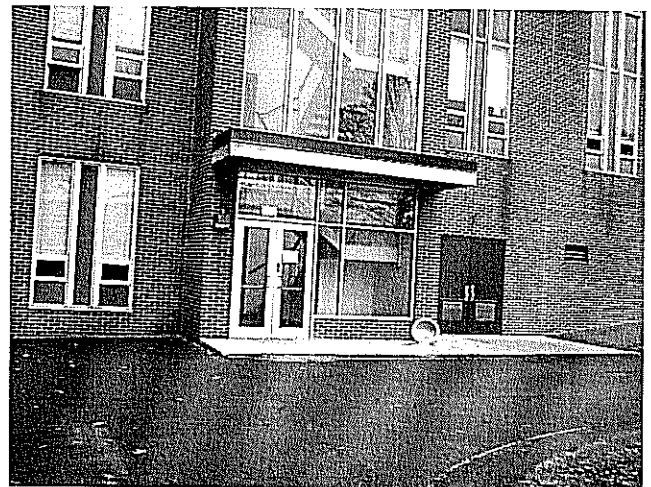
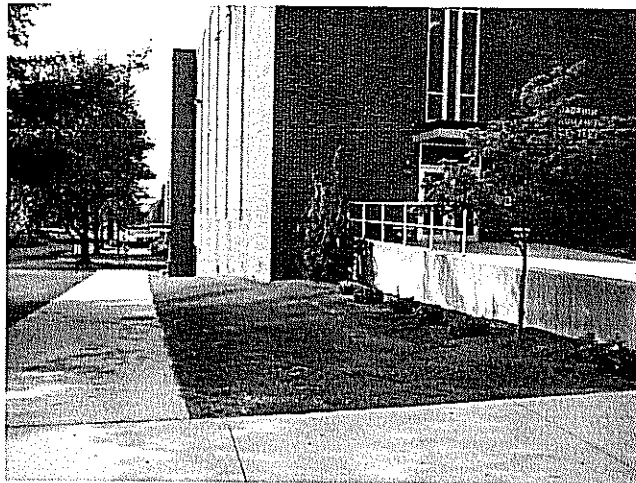
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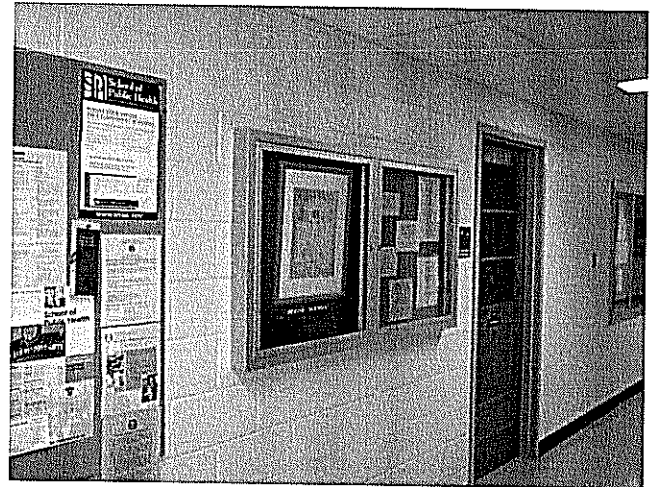
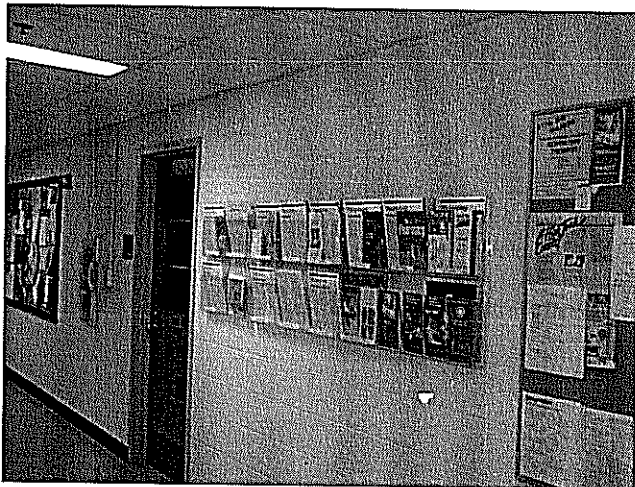
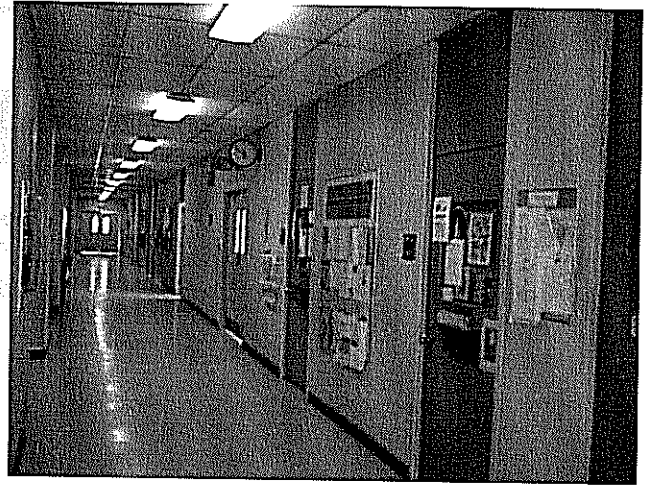
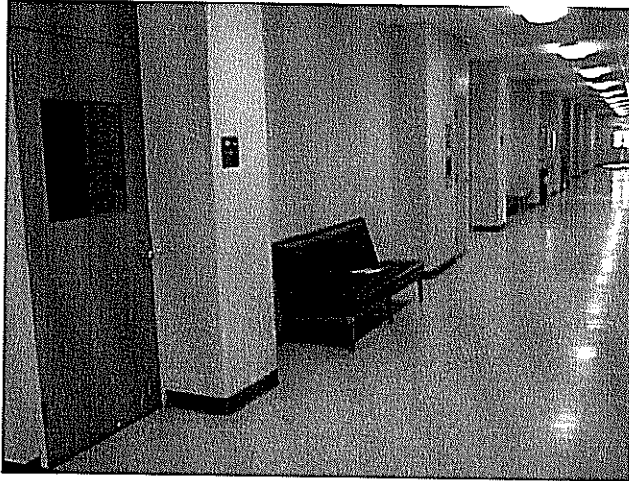
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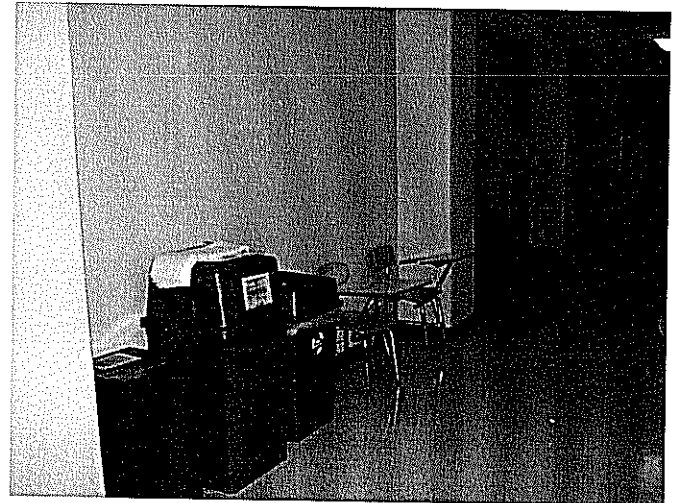
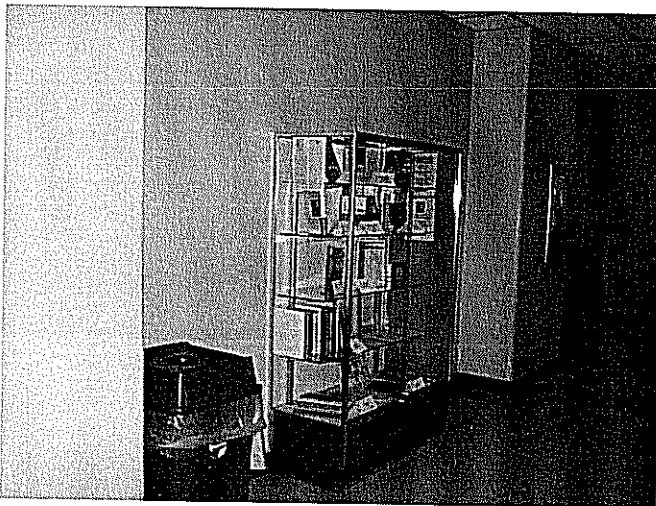
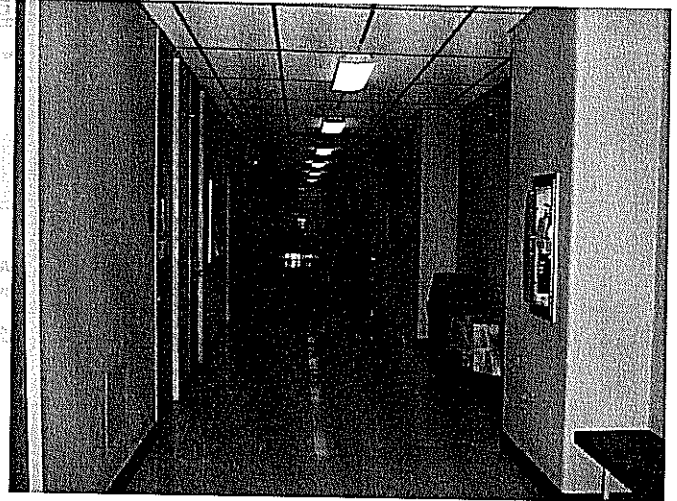
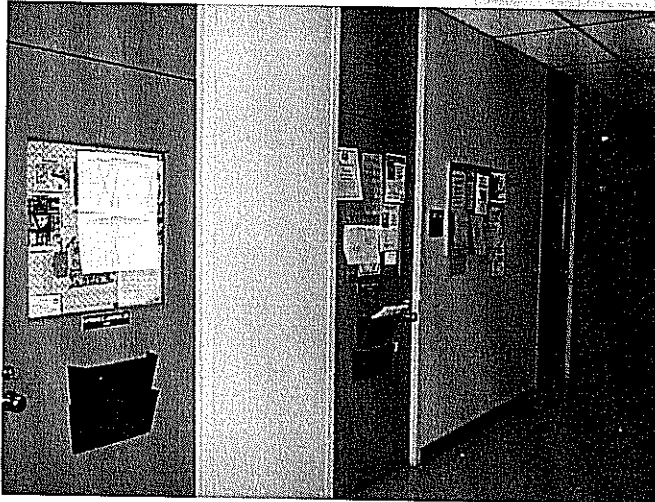
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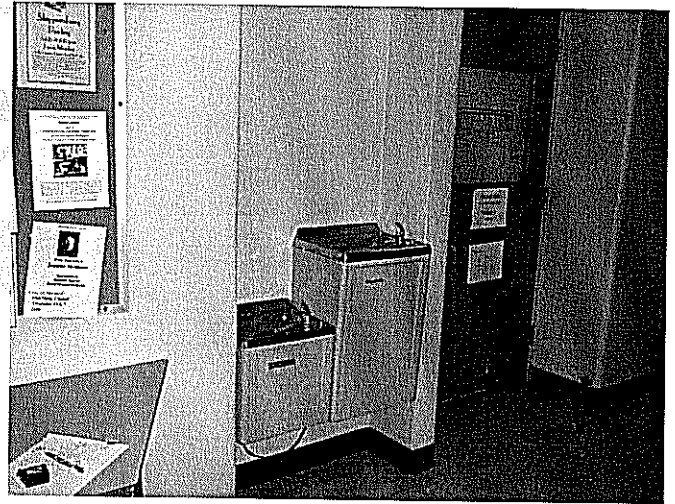
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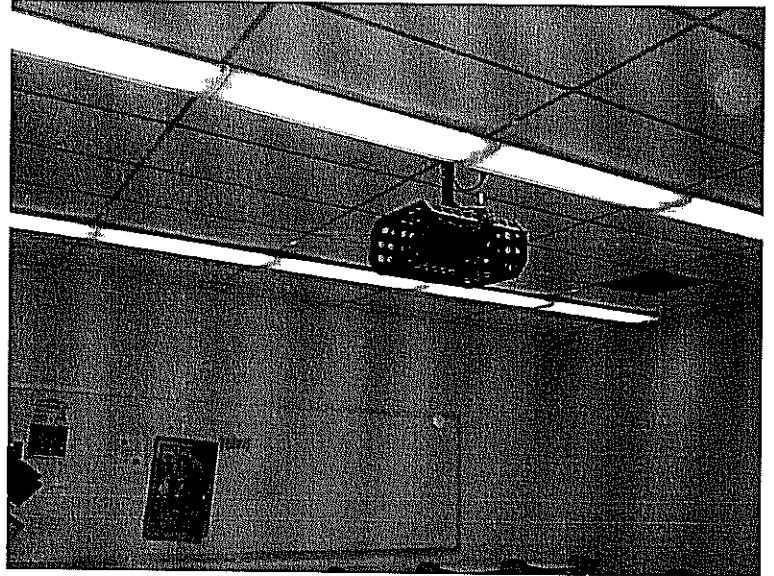
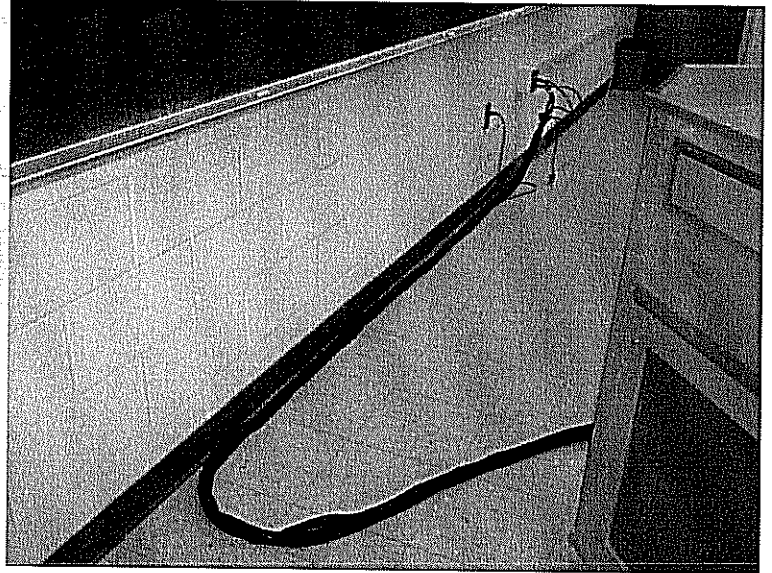
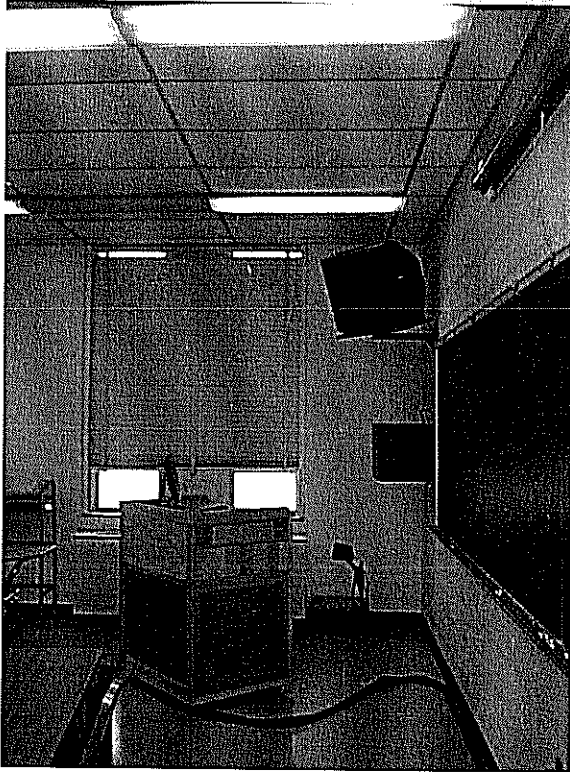
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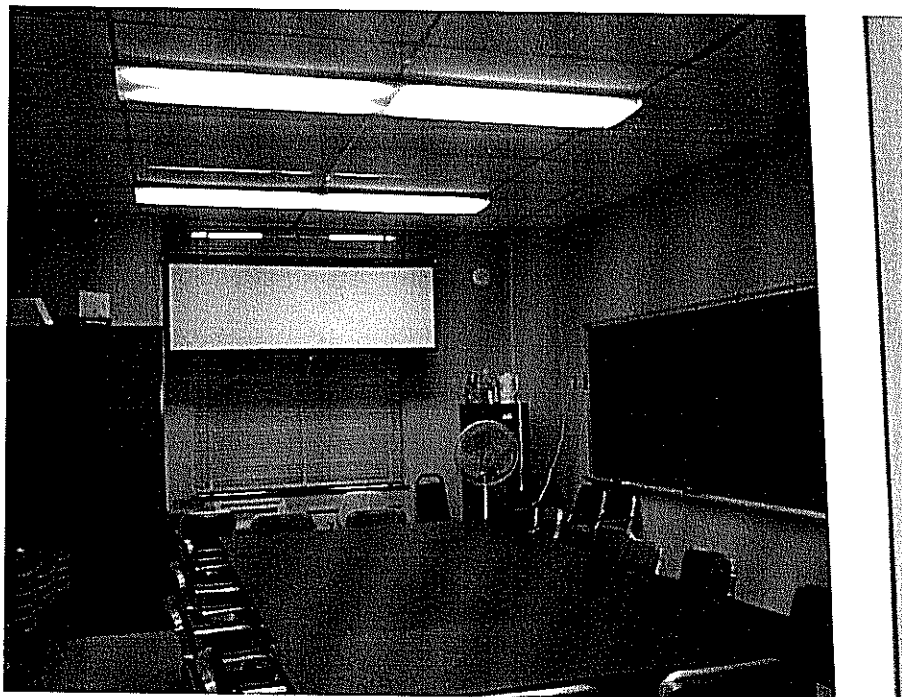
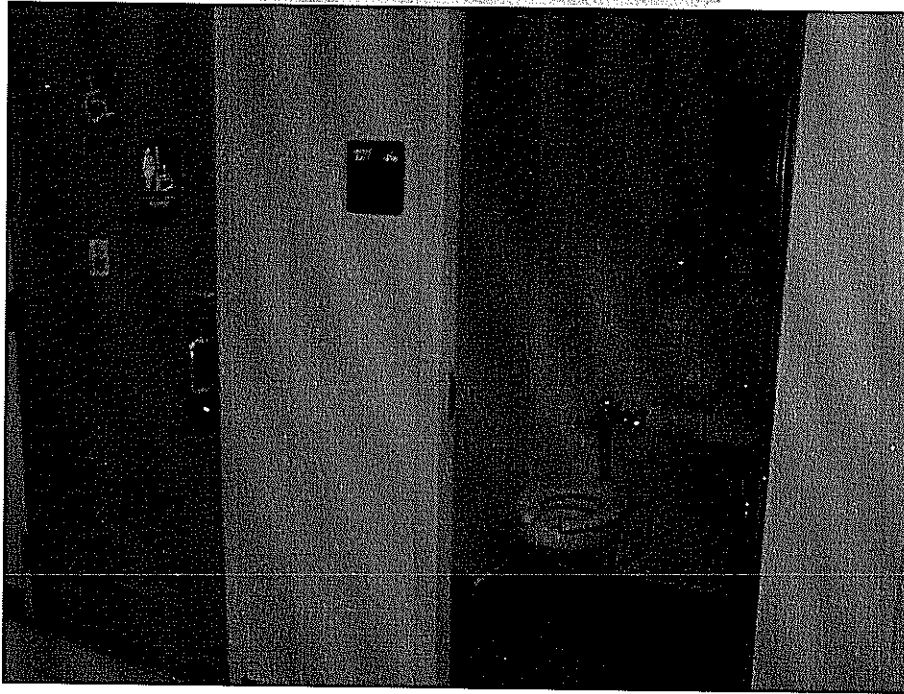
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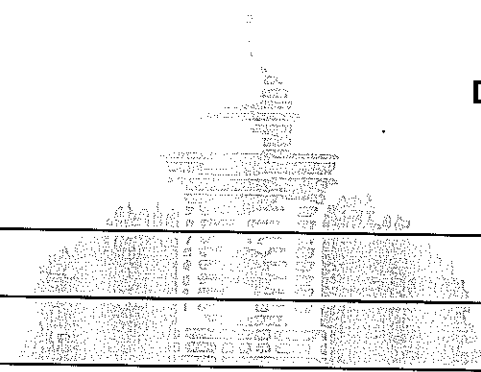


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10.00 NOTES



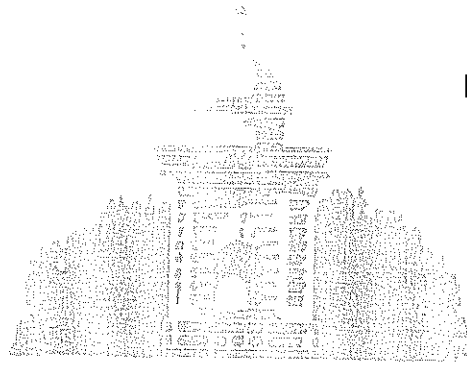
Shippensburg
Shippensburg
University

08 NOVEMBER 2004

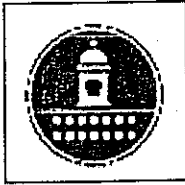
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11.00 APPENDIX



Shippensburg
University



**STATE SYSTEM OF HIGHER EDUCATION
Capital Project Cost Estimate
and Category Justification Report**

Part I: Shippensburg University FY 0405 University Priority _____
~~05-06~~

Part II: Project Data

Project Title: Renovation of Dauphin Humanities Center

Project Type: Renovation Estimated Cost: \$9,043,000
(Utility, Renovation, Addition, New Construction)

Requirement for Project: To enhance continuing education in the arts and sciences through modernization of facilities in compliance with safety and health codes, ADA accessibility standards, and instructional technology.

Part III: Inventory Impact – Use the category as specified in the Facilities Manual, Appendix II, Supplement #3, Categories 100 through 900

Complete the following for New Construction, Addition and Renovation Projects:

| Category | Shortfall, as Reported March, 2002, 4 | #N.S.F. to be Added and/or <u>Renovated</u> | Shortfall or Overage |
|----------|---|--|----------------------|
| 100 | + 4,494 | 13,256 | + 4,494 |
| 200 | -51,144 | 0 | -51,144 |
| 300 | -17,821 | 7,043 | -17,821 |
| 600 | -28,240 | 1,374 | -28,240 |
| 700 | -6,039 | 2,905 | -6,039 |
| Total | | 24,578 | |

For New Construction or Addition Projects, include a copy of the University Master Plan or campus map showing the construction site.

Part IV: For New Construction or Addition Projects, include the program outline information (see attached) or feasibility study.

Part V: Renovation Projects (Facility and Utility Projects)

Year Constructed 1970 Date of Last Upgrade N/A

Condition #4 Type of Upgrade: Complete Life Cycle _____
Mid-Life Component Upgrade _____

(Facilities Manual, Vol. VI-A, Supplement #5)

Other _____

| Part VI: Cost Estimating Data | Total Cost |
|--|---------------|
| A. Site Prep/Special | = \$0 |
| B. Cost/SF (based on Facilities Manual, Vol. VI-A, Appendix #11, Supplement #7) | |
| Construction _____ NSF X (net to gross*) X \$ _____ /SF | = \$ |
| Addition _____ NSF X (net to gross*) X \$ _____ /SF | = \$ |
| Renovation <u>47,670</u> GSF X (Use Renovation Costs) = \$ <u>120SF</u> | = \$5,720,400 |
| Demolition | = \$0 |
| *If unknown use a factor of 1.45 | |
| C. Special Equipment: (built-in equipment, elevators, ADA, vacuum systems) | |
| 1. Renovate elevator | = \$ 100,000 |
| 2. Remove asbestos | = \$1,366,000 |
| 3. Technology enhancements | = \$ 250,000 |
| D. Supporting Utilities: (list with estimated installation of utility lines beyond 5' line) | |
| 1. N/A | |
| 2. | |
| 3. | = \$0 |
| E. Site Improvements: (list with estimated major improvements, e.g. parking, service roads, special landscaping) | |
| 1. Parking | = \$ 100,000 |
| 2. | |
| 3. | |
| "Base" Construction/Renovation | = \$7,536,000 |
| Estimated Design and Construction Contingency (use 20% of base amount) | = \$1,507,000 |
| Base Construction/Renovation + Design & Construction Contingency | = \$9,043,000 |
| Estimated Land Acquisition (if applicable, describe below) | = \$ 0 |
| Total Project Cost Estimate | \$9,043,000 |

Other Pertinent Information:
 None.

ROOM DATA SHEET:

Primary user: Various faculty and students

Room number: DHC - 302, 310, 314

Room name: Speech Classrooms

Function: Classroom teaching

Number and type of occupants: One professor and 25-30 students

Functional relationship to other rooms: Across hall from faculty offices

Visual relationship to other rooms: None

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): These are smart classrooms and need to be wired for that function on a continuing basis

Electric lighting (special req'ts such as quality, intensity, and control): Currently florescent and one switch

Electric power (distribution points, outlets, voltage): Only 2 outlets and that's never enough

Communications (computer terminal jacks, video sources, and control systems): Must have smart-technology hook-ups

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): None

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): The system in this building is horrible and is rarely comfortable

Plumbing (sinks, hot and cold water, etc.): None

Special finishes: None

Special needs: These must remain smart classrooms

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Additional: (use lines below)

Name and title of Preparer: C. M. Bishop
Date: 9/15/04

ROOM DATA SHEET:

Primary user: Department Faculty

Room number: DHC - 316

Room name: Seminar Room

Function: This is where we hold meetings and hiring interviews, grade disputes, and so forth. We store our library in there as well as other items such as electronic equipment and old files

Number and type of occupants: Meeting attendees

Functional relationship to other rooms: None

Visual relationship to other rooms: Across the hall from faculty offices

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Large tables, chairs, file cabinets, book shelves, lockable cabinets, etc.

Electric lighting (special req'ts such as quality, intensity, and control): Currently florescent and one switch

Electric power (distribution points, outlets, voltage): Only 2 outlets and that's never enough

Communications (computer terminal jacks, video sources, and control systems): Must have computer work station and telephone with the 311 configured with 2 computer work stations and an extension phone from 313

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): None

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): The system in this building is horrible and is rarely comfortable

Plumbing (sinks, hot and cold water, etc.): None

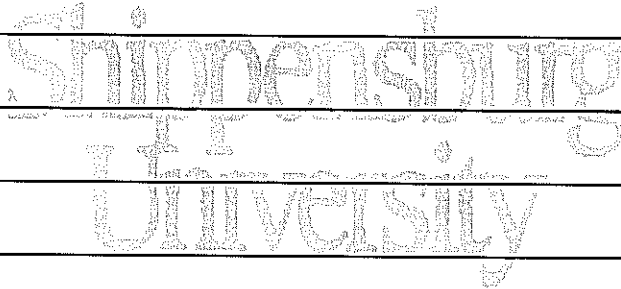
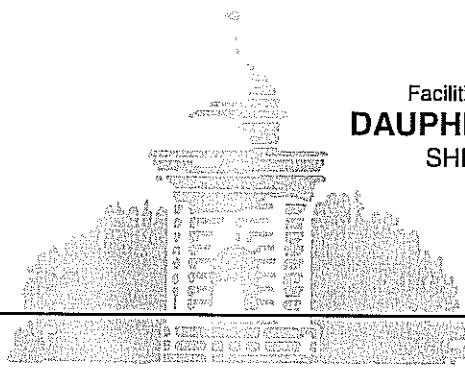
Special finishes: None

Special needs: _____

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Additional: (use lines below)



Name and title of Preparer: C. M. Bishop
Date: 9/15/04

ROOM DATA SHEET:

Primary user: These are part of the department's main office suite

Room number: DHC - 311, 313, 315

Room name: Main office suite for department of speech

Function: 311 is a work room, 313 is the secretarial office, and 315 is the chair's personal office

Number and type of occupants: One professor in 315 and one secretary in 313. 311 is our work room

Functional relationship to other rooms: These 3 rooms comprise the department's main office suite

Visual relationship to other rooms: They have glass in the doors between them

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desks, computer work stations, telephones, file cabinets, book shelves, chairs, etc.

Electric lighting (special req'ts such as quality, intensity, and control): Currently florescent and one switch

Electric power (distribution points, outlets, voltage): Only 2 outlets and that's never enough

Communications (computer terminal jacks, video sources, and control systems): Must have computer work station and telephone with the 311 configured with 2 computer work stations and an extension phone from 313

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): None

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): The system in this building is horrible and is rarely comfortable

Plumbing (sinks, hot and cold water, etc.): None

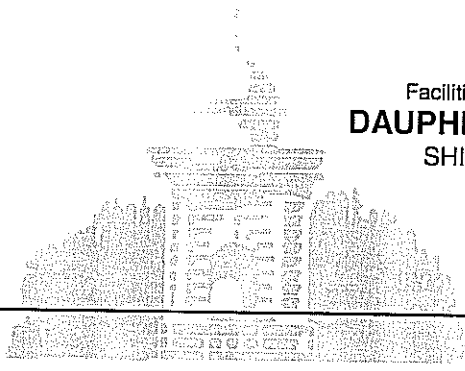
Special finishes: None

Special needs:

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Additional: (use lines below)



Name and title of Preparer: C. M. Bishop
Date: 9/15/04

ROOM DATA SHEET:

Primary user: These are faculty's personal offices

Room number: DHC - 301, 303, 305, 307, 309, 317

Room name: Faculty Offices

Function: Faculty Offices

Number and type of occupants: One professor

Functional relationship to other rooms: Across hall from classrooms

Visual relationship to other rooms: None

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desks, computer work stations, book shelves, chairs, etc.

Electric lighting (special req'ts such as quality, intensity, and control): Currently florescent and one switch

Electric power (distribution points, outlets, voltage): Only 2 outlets and that's never enough

Communications (computer terminal jacks, video sources, and control systems): Must have computer work station and telephone

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): None

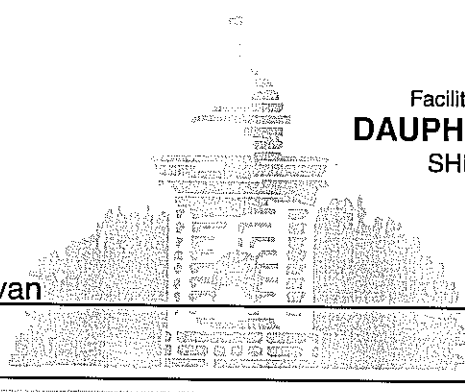
HVAC (in-room controls, air conditioning, temperature and humidity tolerances): The system in this building is horrible and is rarely comfortable

Plumbing (sinks, hot and cold water, etc.): None

Special finishes: None

Special needs: _____

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ROOM DATA SHEET:

Primary user: Patricia Sullivan

Room number: DHC 021

Room name: Faculty Office

Function: Meet with students during office hours, sub-committee meetings, faculty work

Number and type of occupants: 1

Functional relationship to other rooms: Rear classrooms where I teach

Visual relationship to other rooms: Windows on door and in office

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desk computer table (desk), small table (work table), 1 large filing cabinet (5 drawers), 1 wall floor to ceiling bookshelves, 1 office desk chair, 2 student chairs, coat hooks (please), bulletin board

Electric lighting (special req'ts such as quality, intensity, and control): Soft light desk lamp

Electric power (distribution points, outlets, voltage): Several outlets

Communications (computer terminal jacks, video sources, and control systems):
Ethernet, phone

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): Yes, controls by faulty occupant please

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): A/C please

Plumbing (sinks, hot and cold water, etc.): _____

Special finishes: _____

Special needs: _____

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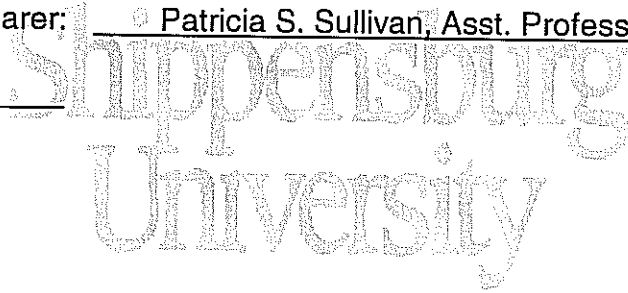
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Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor? No

Name and title of Preparer: Patricia S. Sullivan, Asst. Professor of English

Date: 1/19/05



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ROOM DATA SHEET:

Primary user: Mary Stewart

Room number: DHC 115

Room name: Faculty Office

Function: _____

Number and type of occupants: 1

Functional relationship to other rooms: Door to Eng. office

Visual relationship to other rooms: Door to hall

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Book shelves - as many as possible on side wall - floor to ceiling, room for 2 chairs and desk chair, regular desk, computer desk, filing cabinet and book shelves one wall, hooks for coats somewhere, large bulletin board over desk.

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): Computer outlet and plugs on every wall

Communications (computer terminal jacks, video sources, and control systems): Computer outlet on wall near English door

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes

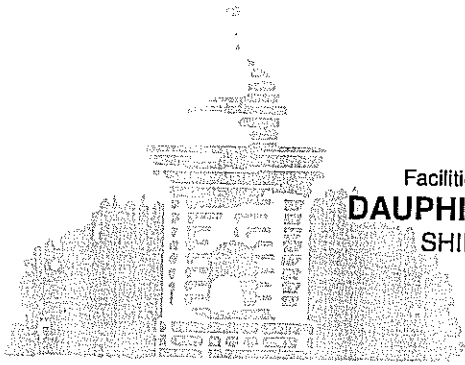
Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

Special needs: _____

14 JANUARY 2005

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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY - PA



Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor? No

Shippensburg University

Name and title of Preparer: Mary Stewart, Chair

Date: Jan 19, 2005

31 JANUARY 2005

FACILITY STUDY – SU 2004/15
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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Cheryl Rotz

Room number: DHC 113

Room name: English Dept. Office

Function: Department Office - Secretary

Number and type of occupants: 1

Functional relationship to other rooms: Doorway to DHC 111 Workroom

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desk, chairs (4), 4 file cabinets, storage, space for printer, fax machine, scanner, information center for students, visitors, coat rack, bulletin board, reception area

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): Outlets for all equipment needs

Communications (computer terminal jacks, video sources, and control systems):
Computer jack, phone jack, phone jack for fax

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances):
Yes - in room control

Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

Special needs: _____

14 JANUARY 2005

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SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?

Name and title of Preparer: Cheryl Rotz/Secretary
Date: 1/20/05

31 JANUARY 2005

FACILITY STUDY - SU 2004/15
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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Mary Libertin

Room number: DHC 121

Room name: Faculty Office

Function: Faculty Office

Number and type of occupants: One

Functional relationship to other rooms: None, spatially near classes on opposite wall

Visual relationship to other rooms: Left of men's restroom, two doors from mid-hall exit

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): One desk, one file cabinet (5 drawers), one fiberboard 2 drawer table, three old chairs, one moveable book case/5 shelves), 7 shelves built into wall, 6 built into opposite wall, over desk

Electric lighting (special req'ts such as quality, intensity, and control): 2 ceiling light panels, each with 2 fluorescent light bulbs

Electric power (distribution points, outlets, voltage): Two power distribution points, regular voltage

Communications (computer terminal jacks, video sources, and control systems): Regular terminal jack for modem/cable

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): No special systems

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): One small heating unit, under window (also cooling unit) A temperature gauge but no control for setting, no humidity gauge

Special finishes: Coat hook, blind on glass window of door and window

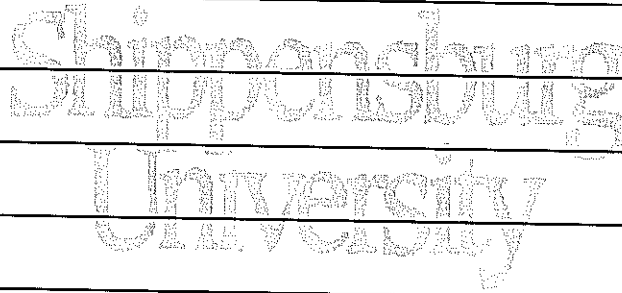
Special needs: None now

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SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor? Absolutely not. I've never used it. It is rarely used.



Name and title of Preparer: Mary Libertin, Professor of English
Date: 1/20/05

31 JANUARY 2005

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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Dev Hathaway

Room number: DHC 107

Room name: Faculty Office

Function: _____

Number and type of occupants: 1

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desk, desk chair, 2 other chairs, file cabinet, shelves

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): 2 each side of room

Communications (computer terminal jacks, video sources, and control systems): Computer terminal jacks

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): _____

Plumbing (sinks, hot and cold water, etc.): _____

Special finishes: _____

Special needs: _____

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FACILITY STUDY – SU 2004/15
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SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?

Name and title of Preparer: Dev Hathaway

Date: 1/20/05

31 JANUARY 2005

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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Cathy Dibello

Room number: DHC 109

Room name: Faculty Office

Function: _____

Number and type of occupants: 1

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desk, desk chair, 2 visitor chairs, computer workcenter, coat rack, bulletin board, file cabinet, bookshelves, floor to ceiling

Electric lighting (special req'ts such as quality, intensity, and control): Desk lamp

Electric power (distribution points, outlets, voltage): Several outlets

Communications (computer terminal jacks, video sources, and control systems): Computer and phone jacks

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes, in-room controls

Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

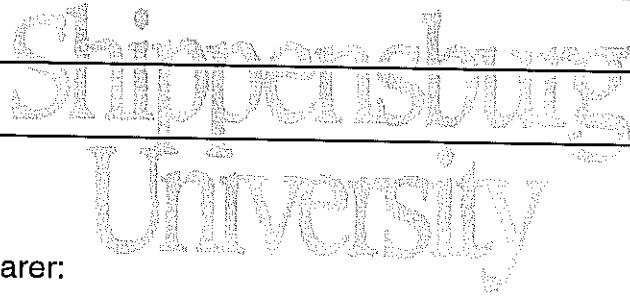
Special needs: _____

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FACILITY STUDY – SU 2004/15
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DAUPHIN HUMANITIES CENTER

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?



Name and title of Preparer:

Date: _____

31 JANUARY 2005

FACILITY STUDY – SU 2004/15
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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Workroom - All Dept. Members

Room number: DHC 111

Room name: Workroom

Function: Workroom

Number and type of occupants: Faculty & Staff

Functional relationship to other rooms: Doorway in from DHC 113 Dept. office and door to hallway

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Copier, risograph, work table space, typewriter & stand, cabinet storage for supplies, mail area, coat rack, book shelf, bulletin board

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): Outlets, for equipment, office equipment, computer power strips.

Communications (computer terminal jacks, video sources, and control systems): Computer terminal jack

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes, in-room controls

Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

Special needs: _____

14 JANUARY 2005

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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?

Shippensburg
University

Name and title of Preparer: Cheryl Rotz, Secretary

Date: 1/20/05

31 JANUARY 2005

FACILITY STUDY – SU 2004/15
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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Kim Van Alkemade

Room number: DHC 022A

Room name: Faculty Office

Function: Faculty work, student visits

Number and type of occupants: 1

Functional relationship to other rooms: Close to classrooms

Visual relationship to other rooms: Window to hallway and outside

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Office chair, desk with drawer for files, computer desk, 2 extra chairs, bookshelves

Electric lighting (special req'ts such as quality, intensity, and control): desk lamp

Electric power (distribution points, outlets, voltage): _____

Communications (computer terminal jacks, video sources, and control systems): Ethernet, phone

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes, control by faculty occupant please

Plumbing (sinks, hot and cold water, etc.): N/A

Special finishes: _____

Special needs: _____

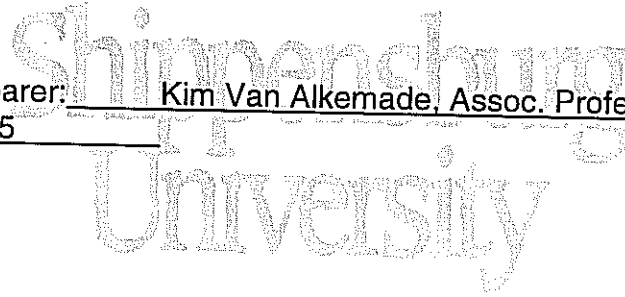
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SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor? No, I don't think so.

Name and title of Preparer: Kim Van Alkemade, Assoc. Professor of English
Date: 1/18/2005



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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Adjunct

Room number: DHC 031

Room name: Faculty Office

Function: _____

Number and type of occupants: 1

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Book shelves - side wall - floor to ceiling, desk, desk chair; 2 visitor chairs, computer desk, file cabinets, bulletin board

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): _____

Communications (computer terminal jacks, video sources, and control systems): Computer and phone jacks

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes, in-room controls

Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

Special needs: _____

14 JANUARY 2005

Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?

Name and title of Preparer:

Date: _____

31 JANUARY 2005

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SHIPPENSBURG UNIVERSITY - PA

ROOM DATA SHEET:

Primary user: Adjunct

Room number: DHC 131

Room name: Faculty Office

Function: _____

Number and type of occupants: 1

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): Desk, office chair, 2 visitor chairs, computer work center, coat rack, file cabinet, bookshelves (floor to ceiling), bulletin board

Electric lighting (special req'ts such as quality, intensity, and control): Desk light

Electric power (distribution points, outlets, voltage): Electric outlets (for equipment)

Communications (computer terminal jacks, video sources, and control systems): Computer, phone jacks

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): Yes, in-room controls

Plumbing (sinks, hot and cold water, etc.): No

Special finishes: _____

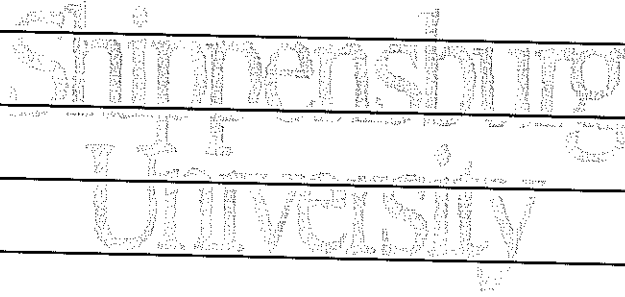
Special needs: _____

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Additional: (use lines below)

Is there a need to keep a faculty toilet room on each floor?



Name and title of Preparer:

Date: _____

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ROOM DATA SHEET:

Primary user: David Godshalk indicated there are no changes or suggestions

Room number: _____

Room name: _____

Function: _____

Number and type of occupants: _____

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): _____

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): _____

Communications (computer terminal jacks, video sources, and control systems): _____

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): _____

Plumbing (sinks, hot and cold water, etc.): _____

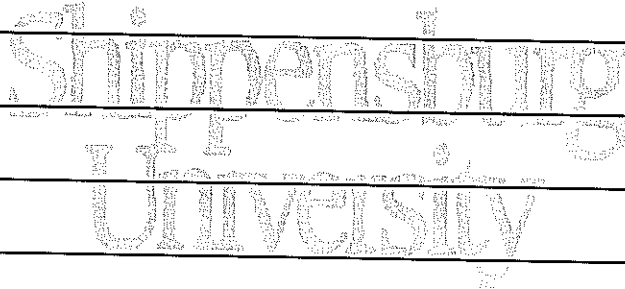
Special finishes: _____

Special needs: _____

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FACILITY STUDY – SU 2004/15
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DAUPHIN HUMANITIES CENTER
SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)



Name and title of Preparer:

Date: _____

ROOM DATA SHEET:

Primary user: Music Department Chairperson, Bob Cart provided no comments on 051

Room number: _____

Room name: _____

Function: _____

Number and type of occupants: _____

Functional relationship to other rooms: _____

Visual relationship to other rooms: _____

Furniture and equipment (to include writing, display, projection, demonstration benches or tables, other fixed equipment; include dimensions to ensure adequacy of room space and any utility connections required): _____

Electric lighting (special req'ts such as quality, intensity, and control): _____

Electric power (distribution points, outlets, voltage): _____

Communications (computer terminal jacks, video sources, and control systems): _____

Special systems (laboratory utilities, ceilings and wall finishes, acoustics, alarm detection, etc.): _____

HVAC (in-room controls, air conditioning, temperature and humidity tolerances): _____

Plumbing (sinks, hot and cold water, etc.): _____

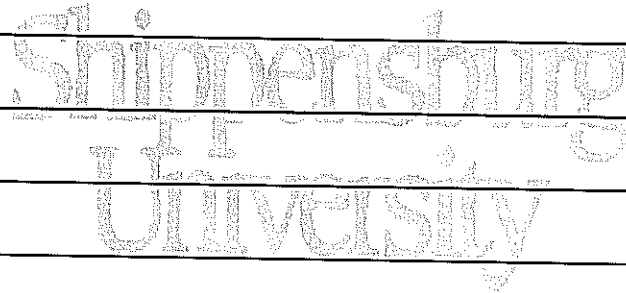
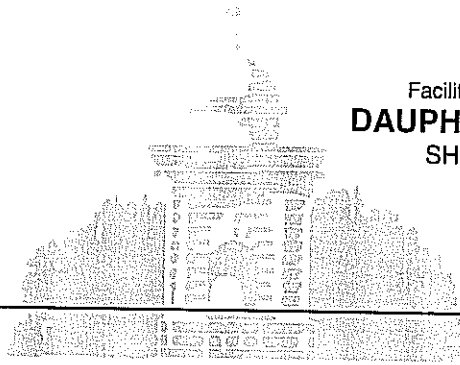
Special finishes: _____

Special needs: _____

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FACILITY STUDY – SU 2004/15
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SHIPPENSBURG UNIVERSITY - PA

Additional: (use lines below)



Name and title of Preparer:

Date: _____