SCHEMATIC AND PROJECT BUDGET APPROVAL
EAST CAMPUS NURSING EDUCATION AND CLASSROOM

In 1994 construction began on the Byrd Science and Technology Center, displacing the original Lurry Hall which was demolished. Lurry Hall had been the home of the Nursing Education Department. It had been intended that Nursing Education would be permanently housed in the “phase-four” renovations of Stutzman-Slonaker Hall, but funding was never secured for that phase of renovations. The Nursing Education Department has been ‘temporarily’ housed in the Butcher Center for eleven years.

The Federal Omnibus Budget Bill of 2005 provided a $10 million earmark for a new Nursing Education building at Shepherd. It is recommended that the project budget be set at $10 million, consistent with that earmark.

The following pages reflect the general nature of the schematic design for the academic building. A further presentation will be made in the Board meeting.

The following resolution is recommended for adoption by the Board:

RESOLVED, That the Shepherd University Board of Governors approves the schematic design for the East Campus nursing education and classroom building and approves a project budget of $10 million.
Existing Conditions

The Shepherd University Academic/Nursing Facility is to be located at the terminus of King Street north of High Street, adjacent to Sara Cree Hall, Kenamond Hall, Dining Hall, Turner Hall, Gardiner Hall, and Ikenberry Hall. This building will be the terminus of a future proposed pedestrian way. In the foreseeable future Sara Cree Hall is slated to be raised and/or renovated into a new Student Union Center. The site is severely sloped. During the master planning process for the Shepherd University Academic/Nursing Facility, the future Student Union Center and associated infrastructure, it was determined that the hilltop should be removed to allow for better transitions between proposed buildings and improved service access. Even with the removal of the hilltop the surrounding finished floor elevations will require an integrated stair and ramp system to enter this building.

Design Intent

The landscape development for the Academic/Nursing Facility will accomplish several goals. First, it will create a pleasing and well defined entrance to the open lobby space, while not blocking views into and out of the lobby area. Second, it will provide an end focal point to the King Street pedestrian way while remaining flexible for future development of the terminus plaza. Third, it will provide much needed organization of green space in an area that has been viewed as parking. Finally the landscape will be consistent with the practices of sustainable design and the character of the area.

Proposed Landscape

The landscape development for the Academic/Nursing Facility will have a distinctly pedestrian friendly and healing garden feel. The entrance lobby terrace will remain flexible in saving a few existing trees while not limiting the future expansion of the plaza at the terminus of the pedestrian way. It will remain sustainable in the choice of local plant materials and building materials. Shepherd University does not have a standard guideline for the development of landscape designs, so ideas will be taken from the campus and surrounding areas to integrate this design into the campus’ fabric, while creating a new standard on campus landscaping. Special attention will be paid to the scale and type of plant material to be complementary to the scale of the building. The primary uses of this area will be for entering the building as well as for special event functions. A secondary use will be as a gateway to the academic part of campus for some students coming from west campus. Buffering will be provided along this link from the loading and unloading areas.

A small side garden area will be developed to provide outdoor gathering space/seating space for breakout sessions during seminars. It will be integrated with the plantings and
paving selected for the rest of the building. This area in particular will also be designed with the guiding principles of healing gardens and holistic design.

All landscaping for the site will be plant material chosen that is appropriate for the site orientations, use, and maintenance requirements. Plants will be grouped in masses, with a few specimens located strategically for interest. Deciduous, evergreen, and flowering species will be chosen for a year round interest.

The site development will allow the new building to blend seamlessly into the existing fabric while creating an anchor to the terminus of the future pedestrian way on King Street.
Existing Conditions

The project site is located at the terminus of King Street, north of High Street on Shepherd University-Shepherdstown, West Virginia. The proposed building is adjacent to Sara Cree Hall, Kenamond Hall, Dining Hall, Turner Hall, Gardiner Hall, and Ikenberry Hall. In the foreseeable future Sara Cree Hall is slated to be raised and/or renovated into a new Student Union Center. The site is severely sloped at this time, ranging from 402’ to 386’, however due to the future planning of the Student Union Center and site infrastructure concerns most of this slope will be removed by the lowering of the hill top to approximately 393’ to 386’. The highest portion of the site will be to the north and the lowest is to the south at the King Street terminus. Except for a few small landscape islands the site is entirely comprised of parking and retaining walls.

Existing Utilities

Currently there is a water line located in the area of the proposed building that will be relocated as part of the early grading package. The exact location of this line is still to be determined. Other utilities that are near by include a sanitary sewer main, electric, communications, and storm drainage. As with all other development at Shepherd University exact utility locations will need to be verified by test pits, due to lack of infrastructure information.

Required Permits

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<th>Agency</th>
<th>Items Covered</th>
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<td>West Virginia Department of the</td>
<td>- Storm water management waiver*</td>
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<tr>
<td>Environment</td>
<td>- Erosion and Sediment Control</td>
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*It will be necessary to maintain more impervious area after development than this site had prior to development, Shepherd University does not have adequate undeveloped land for a storm water management facility on this side of campus. The cost of an underground storm water detention system would be cost prohibitive.
Structural Narrative

General:

The project consists of a 2-story building and a single story lecture hall. The 2-story portion and the lecture hall are connected by a high bay lobby area with floor to roof curtain wall. The lobby consists of two areas with roofs at different elevations. There is also a large roof canopy along side of the entrance lobby. The exterior walls will be brick veneer on a concrete masonry back up with large areas of glass and curtainwall.

Foundations:

The building will be supported on shallow spread footings at columns and continuous wall footings along the perimeter walls. The footings will bear on the stiff clay soils layer which overlays rock. Where rock is encountered at footing elevations, it will be over-excavated by approximately 12 inches and filled with compacted soils materials in order to create a more uniform bearing condition for the entire structure. Some preliminary borings were taken to help define the elevations of rock below the existing ground surface. Auger refusal was encountered between 1.5 feet to 7.0 feet below ground surface. Additional borings and a geotechnical report are planned once the building is located on the site. The first floor will be a 5" thick concrete slab-on-grade reinforced with welded wire fabric placed over a vapor barrier and a 4" thick layer of stone.

Superstructure:

The second floor will consist of a 5-1/4-inch thick lightweight concrete slab reinforced with welded wire fabric placed on a 2-inch deep, 20 gage, galvanized composite deck. The floor slab is supported on structural steel beams and girders which are designed as composite members with headed shear studs welded on the top flanges.

The roof areas will consist of a 1-1/2-inch deep, 22 gage, galvanized metal deck which is supported by steel joists and steel beams. The area of the roof above the second floor Acute Care/Health Ass. Lab, Independent Living Lab Suite and Critical Care Lab will be raised to create a clerestory window on the north, west and south sides. The east side will be a solid wall. There will be a screen wall on the roof to shield the roof-top mechanical equipment. The elevator will extend to the roof to provide access to the mechanical equipment within the limits of the screen wall. This will require a high penthouse to be built above the roof. The 2-story portion of the building will be supported by structural steel columns located along the perimeter walls and on the interior of the building.

The roofs over the entrance lobby will be the same 1-1/2-inch deep, 22 gage, galvanized metal deck supported on steel joists. The joists will span from the masonry wall at the 2-story building to steel beams along the exterior wall. The steel beams will be supported by round or square tube columns placed behind the exterior wall. The exterior wall will be a curtain wall system from the first level slab to the roof.

The roof over the lecture hall will be the same 1-1/2-inch deep, 22 gage, galvanized metal deck supported on steel joists. The joists will span between the exterior masonry walls, providing column-free space.

The exterior walls will be of cavity wall construction with brick veneer on 8-inch thick concrete masonry back-up. The edge of the second floor will be held back to allow the entire exterior wall to bypass the floor. The concrete masonry will be reinforced vertically for wind loading. The piers between the windows
will also be reinforced as necessary. The concrete masonry back-up in the lecture hall will be 12-inches thick and will be vertically reinforced to act as a bearing wall for the roof joists. Steel and/or precast concrete lintels will be required above all openings in the masonry walls.

There are two egress stairs in the 2-story portion as well as a feature stair in the entrance lobby. These stairs will be steel-framed with concrete pans. The walls around the stairs and elevator will be 8" thick concrete masonry.

The lateral force resisting systems will be a combination of braced steel frames and reinforced masonry shear walls.
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**TOTAL PROGRAM** | **Total NASF** | 20,790

**TOTAL BUILDING** | **Total SF (Total NASF x 1.66 = 60% efficiency)** | 34,511 | 34,374

* In addition to Program NASF (actual floor areas for the spaces listed above), Total Building SF includes the following: circulation space within tenant areas and common area toilet rooms, janitorial closets, electrical, and IT rooms, telephone rooms, mechanical rooms, fire control rooms, elevator lobbies and public corridors. These square footages will be updated during the Schematic Design, Design Development and Construction Documents Phases.
Functional Requirements

The following section has been formulated specifically for this project and represents our understanding of the functional requirements and audiovisual technologies that are planned throughout the building. Specifically, the descriptions include key system attributes and hardware components for spaces that are anticipated to employ audiovisual systems within the building.

This information is meant to be used as a decision-making tool for planning and budgeting purposes and is not intended to substitute for complete system designs. A fully engineered specification package will be required at a later stage of the project. This package is typically released as a stand-alone audiovisual bid package separate from the base Construction Documents and done so a few months prior to building completion.

The numbers expressed in the Opinion of Probable Cost are comprised of system components, installation labor, miscellaneous materials, and software development necessary to support the installed systems (all equipment costs are related to the latest Manufacturer's Suggested Retail Price (MSRP)). The document does not identify specific manufacturers, makes or model numbers. It simply shows system pricing for the defined functionality.

Entrance Lobby

The reception/lobby area will incorporate a historical display, which will feature physical artifacts associated with the Nursing School and its history. Information displays (digital signage) will provide visitors and residents with both information pertaining to the display and "way finding" directions within the building. Control of these displays will be facilitated by a network accessible user interface.

- One video display with audio
- Infrastructure for a future display
- IP (network-based) control for displays.

Alternate Use Facilities

60-Seat Classroom

The 60-Seat Classroom is planned to support computer-based and digital media presentations and lectures. An instructor could expect the necessary tools to display digital files, high-resolution medical images, opaque printed materials, and 3-dimensional objects. The instructor will also be able to access the Internet and campus LAN. The AV system is anticipated to include the following technologies:

- Two ceiling mounted electric projection screens
- Two video projectors (including devices to secure projectors)
- Removable Presentation Lectern with the following integrated components
  - A dedicated multimedia computer w/ a flat panel display and wireless keyboard & mouse
  - Digitizing tablet with annotation capability
  - A VGA cable for laptop connectivity
  - Network connected DVD media playback drive
Color Touch Screen Media Control Panel
 García Navek Lectern Microphone
 García Navek Lectern Light
 High Resolution Document Camera connection
 Connectivity for Laptop and Auxiliary AV Devices

- A sound reinforcement system for program audio reproduction
- A speech reinforcement system
- One wireless microphone
- An IR Student Polling System
- An ADA compliant hearing assist system for the hearing impaired
- Control System interfaced to lighting, all room technology resources and the data network
- Wireless network access for the participants

40-Seat Classroom

The 40-Seat Classroom will function in the same way as the 60-seat classroom with adjustments made to screen size and other pertinent equipment. The AV system is anticipated to include the following technologies:
- Two ceiling mounted electric projection screens
- Two video projectors (including devices to secure projectors)
- Removable Presentation Lectern with the following integrated components:
  - A dedicated multimedia computer w/ a flat panel display and wireless keyboard & mouse
  - Digitizing tablet with annotation capability
  - A VGA cable for laptop connectivity
  - Network connected DVD media playback drive
  - Color Touch Screen Media Control Panel
  - Gooseneck Lectern Microphone
  - Gooseneck Lectern Light
  - High Resolution Document Camera connection
  - Connectivity for Laptop and Auxiliary AV Devices

- A sound reinforcement system for program audio reproduction
- A speech reinforcement system
- One wireless microphone
- An IR Student Polling System
- An ADA compliant hearing assist system for the hearing impaired
- Control System interfaced to lighting, all room technology resources and the data network.
- Wireless network access for the participants

120-Seat Lecture Hall/Classroom

The 120-Seat Lecture Hall/Classroom is planned to support computer-based and digital media presentations, meetings, lectures and possibly a movie night presentation. A presenter could expect the necessary tools to display digital files, high-resolution medical images, opaque printed materials, and 3-dimensional objects. The presenter will also be able to access the Internet, Internet 2, and campus LAN.
The rear projection area may also serve as a control room for both the lecture hall and other AV systems in the building. The AV system is anticipated to include the following technologies:

- Dual Image Rear Projection Screen
- Two video projectors (or one very high resolution with image processing)
- Optical mirror system to reduce the space requirement of rear projection
- Image processing that will enable projection of a single or simultaneous multiple images
- One 35mm slide projector (or slide to video converters)
- Removable Presentation Lectern with the following integrated components:
  - A dedicated multimedia computer w/ a flat panel display and wireless keyboard & mouse
  - Digitizing tablet with annotation capability
  - A VGA cable for laptop connectivity
  - Network connected DVD media playback drive (movie night to be on DVD—not film)
  - VHS Deck with Integral CATV Tuner
  - Color Touch Screen Media Control Panel
  - Gooseneck Lectern Microphone
  - Gooseneck Lectern Light
  - High Resolution Document Camera connections
  - Connectivity for Laptop and Auxiliary A/V Devices
- A sound reinforcement system for program audio reproduction
- A speech reinforcement system
- Three wireless microphones (one used for audience questions)
- Six wired tabletop microphones for panel discussions
- An ADA compliant hearing assist system for the hearing impaired
- Control System interfaced to lighting, all room technology resources and the data network.
- Small Wireless Color Touch Screen Media Control Panel
- Wireless network access for the participants

**Seminar Room**

The Seminar Room is planned to support computer-based, digital media presentation, and small group collaboration. Faculty members could expect the necessary tools for multiple users to share, work jointly together, and display digital files and high-resolution medical images. The users will also be able to access the Internet and campus LAN. The AV system is anticipated to include the following technologies:

- An appropriately sized motorized, front projection screen
- An appropriately sized standard whiteboard
- A high-resolution video projector (including lift or other device to secure projector)
- A dedicated multimedia computer with wireless keyboard & mouse
- Digitizing tablet with annotation capability
- Connection(s) for high resolution document camera
- A small sound reinforcement system for program audio reproduction
- A wall-mounted volume control panel
- All source devices such as DVD and VCR will be hidden within some type of millwork or a credenza.
Computer Lab

The 30-Seat Computer Lab is planned to support computer-based and digital media presentation, classroom lectures, and computer training. A presenter could expect the necessary tools to display digital files, high-resolution medical images, opaque printed materials, and 3-dimensional objects. The presenter will also be able to access the Internet and campus LAN. It is desirable that each student workstation has adequate table space for secondary devices such as a carry-in laptop. All connections will be tabletop units. The AV system is anticipated to include the following technologies:

- An appropriately sized motorized, front projection screen
- An appropriately sized standard whiteboard
- A high-resolution video projector (including devices to secure projectors)
- A DVD Player
- A High Resolution Document Camera connection
- A dedicated multimedia computer w/ a flat panel display and wireless keyboard & mouse
- A VGA cable for laptop connectivity
- A sound reinforcement system for program audio reproduction
- A centralized control system including an icon-based touch panel interface w/ annotation capabilities
- A standard network outlet at the lectern
- A dedicated workstation at each seat
- A software-based system will provide the instructor with control over each student computer's keyboard, video display, and mouse.
- A screen polarization system for computer monitors during testing.
- A grid of network and power outlets in the floor (for standard room layout)
- A complement of network outlets and power on each wall (for testing room layout)
- Wireless network access for the participants

Simulation Labs

The Clinical Exam/Simulation Labs are planned to support video and audio capture of students as they diagnose and perform patient care using volunteers and full-body simulators. The rooms are planned to replicate an acute care/health assessment room, independent living suite, maternal child room and a critical care room. The video and audio signals will be fed to a central routing area with the ability to then send the signal to other classrooms within the building. They can also be routed to a storage device for future review and editing. The following technology will be incorporated into each space:

Acute Care/Health Assessment Lab

- An appropriately sized motorized, front projection screen
- A high-resolution video projector (including devices to secure projectors)
- Portable Whiteboard (electronic or camera capture)
- Monitors (Flat panel)
- Two unobtrusive observation cameras (TBD)
- Microphones for audio pickup (TBD)
Ceiling-mounted loudspeakers
An intercom system
Automated video recording
ADA compliant instructors table
Combination nurses station and instructor's table/lectern
Two network ports

**Independent Living Lab Suite**
- Three unobtrusive observation cameras
- Microphones for audio pickup
- Ceiling-mounted loudspeakers
- An intercom system
- Automated video recording

**Maternal Child Lab**
- An appropriately sized motorized, front projection screen
- A high-resolution video projector (including devices to secure projectors)
- Portable Whiteboard (electronic or camera capture)
- Monitors (Flat panel)
- Two (2) Pan/Tilt/Zoom Cameras
- Microphones for audio pickup
- Source equipment (VHS/DVD)
- Speakers

**Critical Care Lab**
- An appropriately sized motorized, front projection screen
- A high-resolution video projector (including devices to secure projectors)
- Whiteboard (electronic or camera capture)
- Monitors (Flat panel)
- Four (4) Pan/Tilt/Zoom Observation Cameras
- Microphones for audio pickup
- Source equipment (VHS/DVD)
- Speakers for audio from classrooms
- Movable ADA compliant Lectern

**Faculty Spaces**

**Offices**

Offices and workstations will be equipped with the appropriate level of network connectivity based on function. Network outlets will be wall, floor, or cubicle-mounted devices. Each outlet will have one data and one voice outlet.
The Meeting Room is planned to support computer-based, digital media presentation, and small group collaboration. Faculty members could expect the necessary tools for multiple users to share, work jointly together, and display digital files and high-resolution medical images. The users will also be able to access the Internet and campus LAN. The AV system is anticipated to include the following technologies:

- An appropriately sized motorized, front projection screen
- An appropriately sized standard whiteboard
- A high-resolution video projector
- A DVD Player
- A high-resolution document camera
- A dedicated multimedia computer w/ a flat panel display and wireless keyboard & mouse
- A small sound reinforcement system for program audio reproduction
- A wall-mounted volume control panel
- A complement of network outlets on each wall

**Seminar Room**

This conference room will serve as a group study area for student and meeting area for faculty. Standard Whiteboard. Basic network connectivity will be provided to all furniture with in the area.

**Library/ Resource Center**

This is an informal space with minimal technology. Basic network connectivity via wired or wireless ports will be provided.

**Faculty/Staff Collaboration Room**

The Faculty/Staff Collaboration Room will have minimal technology. Basic network connectivity via wired or wireless ports will be provided.

**Owner Feedback and Commentary**

This document is the first draft of the Audiovisual Program for the technology systems in the Academic Building. It contains our interpretation of what we heard in our initial meetings and assumptions that we have made in the absence of specific direction. We will rely heavily on feedback and commentary from representatives from Shepherd University to refine this document in the next design phase of the project. As we proceed with our portion of the project, all of our subsequent infrastructure designs, systems designs, budget estimates, and bid specifications will be founded upon the final version of the Technology Program. It is critical that the final program document accurately represents the project requirements.