HUNTINGTON
UNIVERSITY

2015 Facilities Master Plan

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

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INTRODUCTION

A LEGACY OF PLANNING

This document represents the fourth update to the Facilities Master Plan for Huntington University. InterDesign has had the privilege of serving as the University's master planner for over three decades, including the development of the original Facilities Master Plan in 1980 and subsequent updates in 1988, 1996 and 2002.

Through the years, each iteration of the planning process has informed and supported prudent stewardship of campus development. By the grace of God and through the generosity of its supporters, Huntington University has undergone significant physical transformation since the vision was cast in the original master plan.

The concept of a pedestrian-oriented campus was given birth in the original master plan. The Merillat Centre for the Arts, Habecker Dining Commons, Miller and Meadows Halls and the Dowden Science Hall are examples of facilities that were first conceived during the master planning process. These bold projects stand today as a testimony to the value of such planning and God's faithfulness in honoring such efforts.

PURPOSE

The 2015 Huntington University Facilities Master Plan has been prepared to assist the Board of Trustees, administration and faculty in their responsibility to advance the mission of the University. In concert with the *Faith Forward 2022* strategic plan, the Facilities Master Plan seeks to support the people and programs of Huntington University by anticipating future physical campus needs. Specifically, the plan supports the five strategy pillars articulated in the *Faith Forward 2022* plan:

- Strengthening the Huntington University Experience
- Enhancing a Culture of Academic Excellence
- Sustaining Spiritual Significance and Faithful Service
- Promoting Enrollment Growth, Strategic Programs, and Visibility
- Increasing Student Economic Value and Institutional Viability

The plan aims to be rigid enough to give firm direction, but flexible enough to allow for inevitable changes. The plan is not intended to be an absolute directive for future construction and does not dictate the program or final design for any proposed improvement. Instead, the plan should be viewed as a road map to guide the physical development of the campus, recommending a general scope, location, and budget for each suggested improvement. As the Board considers future capital investment, the plan is intended to serve as a tool to aid in the exercise of good stewardship of available resources.

PLANNING GUIDELINES

- The Facilities Master Plan will be designed to serve a projected enrollment of 1,200 FTE undergraduate students and 500 FTE graduate and adult students.
- The plan will be designed to serve a resident student population of up to 80 percent of the projected 1,200 FTE undergraduate students (960 students).
- The plan will emphasize concepts and ideas that repurpose, enhance, and/or better utilize existing physical resources versus adding square footage to the campus.
- The project implementation timeline is projected to be 10 years.

PLANNING PRINCIPLES

InterDesign applied the following principles to the master planning process.

- **Preservation:** "First do no harm." Strengthen the good and carefully consider the impact of new interventions.
- **Pedestrian Campus:** Incursion of the car into the center of the campus should be kept to a minimum.
- **Order:** Proposed improvements should have a strong sense of fit with a discernible relationship of part to part and part to whole.
- **Space over Mass:** Be aware that the proportions of the space between buildings is often more important to establishing a sense of place than the buildings themselves.
- **Integration of Uses:** The most vibrant campuses, like the most vibrant cities, result from an integration of living, working and playing spaces distributed throughout the larger fabric. Different uses do not necessarily need to be sorted into mutually exclusive zones.

METHODOLOGY

The master planning process consisted of three steps: Pre-Planning/Data Gathering, Analysis and Synthesis.

Pre-Planning/Data Gathering

During this step, Master Plan Team members and other stakeholders were identified. An organizational meeting was held with the team to overview the planning process, review the 2002 Master Plan and improvements since that time, review current trends in higher education design, discuss initial planning issues and establish a planning schedule. Information and data was collected including the strategic plan, enrollment projections, building floor plans, a list of instructional rooms with capacities, time periods used for scheduling classes, and a course list of the most recent Fall semester. Input was received from faculty, maintenance and IT staff regarding the condition of facilities. Strengths, weaknesses, opportunities and threats (SWOT) data was collected from the Master Plan Team and documented in the appendix of this report.

Analysis

The objective of this step was to clearly define the issues that the master plan must address. To this end InterDesign conducted an Academic Space Assessment included in the appendix of this report. This comprehensive physical assessment evaluates each instructional space against 19 assessment criteria consisting of physical features and characteristics considered essential for Huntington University to compete in the marketplace for students and faculty.

A General Classroom Utilization Analysis was also performed and is included in the appendix of this report. This analysis determines how efficiently the University is using general classroom space and identifies the need for additional classrooms.

Based on the results of the Academic Space Assessment, General Classroom Utilization Analysis, SWOT input, and all of the other information collected, InterDesign facilitated discussions with the Master Plan Team to identify and refine a list of planning issues and options to be addressed in the master plan. Team members used a dot-polling process to assign priority to each issue. Each person was given a list of the issues and options along with eight green self-adhering dots and two red dots. The green dots were to be placed next to the issues believed to be of significant importance and the red dots next to the issues deemed of highest importance. A copy of the prioritized Planning Priorities is included in the appendix.

Synthesis

With needs identified and priorities tested, the Master Plan Team turned its attention to possible planning solutions. During this step, InterDesign explored numerous concepts and planning options with the Master Plan Team. These concepts, along with their respective budgets and implementation timeline, were evaluated and refined by the team and documented in this report and supporting drawings.

PLANNING PRIORITIES

STUDENT LIFE FACILITIES

The HUB (Huntington Union Building)

This 1960's era building occupies prime real estate, but, due to its age and lack of student-friendly amenities, fails to deliver the vibrant student union experience today's students expect and that competitor schools are providing. The 2002 Facilities Master Plan called for a comprehensive renovation of this facility, but the only improvement implemented since that date is a new elevator. In order for Huntington University to compete in the marketplace, significant additional improvements are urgently needed. The Master Plan Team considered a replacement facility option, but decided renovation was the best course based on realistic fundraising expectations, and the fact that the existing building has good structural bones and is well-located on campus.

Student Lounge Concept

The HUB renovations will be aimed at modernizing, renewing, and transforming the facility into a place where students want to be. Renovations will include replacement of obsolescent HVAC, electrical and lighting systems, new restrooms, exterior door and window replacement, exterior fascia update, and new floor, wall, and ceiling materials. The first floor will be transformed into a large, open, informal student lounge area featuring comfortable furniture, a cozy fireplace area, a coffee shop/café, WIFI, and recreation space for activities such as ping-pong, billiards and similar games. To make this possible, Financial Aid offices will move to Becker Hall and Admissions offices will be relocated to a new addition to the Merillat Centre for the Arts, described elsewhere in this report. The second floor will be remodeled to consolidate the Office of Student Life, Campus Ministries, Student Government and Career Services. Norm's Place, dining areas and student mailboxes will also remain on this level.

The development of student-friendly exterior spaces is an important part of this renovation project. The lakeside terrace development north of the HUB is intended to be the informal, relaxing ("chillaxing") outdoor "hub" of campus. With ample loose, comfortable furniture, multiple levels, a fire-pit on the lower level, an expansive view of Lake Sno-Tip, and opportunities for programming (small concerts, lectures) and small group meetings, this amenity will serve as the quiet campus refuge. Both stairs and an ADA accessible ramp connect the two levels of this space. A connection is provided from the lower terrace level to the expanded trail system surrounding Lake Sno-Tip.

The new "outdoor room" is the welcoming front door providing lots of seating (seatwalls) surrounding the large planters as well as loose furniture, and creating an enclosed space from which to "people-watch" along the corridor that passes through this space. Masonry walls along the east, west, and south sides of the place define the space, block noise, and add texture. Extensive plantings of perennials and ornamental grasses in the raised planters add color, fragrance, texture, and movement to the space. Special permeable paving helps define the space and adds color and texture, while helping to control stormwater run-off. The corridor through the space will accommodate emergency vehicles.

Reconfiguration of the western pedestrian and service access to the HUB is proposed by the master plan. This design would create a pedestrian walk that would curve around the end of Lake Sno-Tip and direct students to the Dining Commons and the Merillat Centre for the Arts. The walk would also create a small gathering space at the southern end of the lake with a possible amenity (lighted sculpture, raised planter, or decorative shelter). A separated service drive would allow deliveries to the HUB and connect directly to the east lower Livingston Residence Hall parking lot. Area for 3 food trucks to park adjacent to the proposed HUB "outdoor room" is also included in this site design.

The implementation of these improvements to create a dynamic, new social center is of great importance as Huntington University seeks to strengthen community on campus and attract students in an increasingly competitive marketplace.

The PLEX

Over the years since this building was constructed, student enrollment has grown, faculty and staff have changed and needs have evolved, but the PLEX has not kept pace. Instead, like other facilities on campus, maintenance has been deferred and improvements have been postponed to the point of having to close the natatorium portion

due to an unsafe roof structure. Student recreation and athletic facilities are important to the success of a campus and some would say, vital, to the ability of a university to attract students. The PLEX falls short in this area and is in urgent need of improvement.

The master plan proposes a modest start to these improvements by recommending an addition on the location of the natatorium designed to accommodate an auxiliary gymnasium, a weight machine/exercise area for student use, a classroom and coaches'' offices. Additional storage space is proposed at the west side of the fieldhouse. If funds permit, the following renovations should also be implemented:

- Renovation and enlargement of the training room for athlete use.
- Replacement of the indoor track synthetic flooring with a more resilient system.
- Remodeling of the second floor as classrooms and a VIP hospitality suite overlooking Platt Arena.
- Addition of an elevator and stairs to serve the second floor.
- Renovation of the women's locker room and public restrooms.
- Updating of floor, wall and ceiling finishes in public areas.
- Renovation of aging HVAC systems.

Student Housing

Huntington University offers an appropriate variety of housing types providing a structured living transition from adolescence to independent adulthood. As illustrated in the chart below, there are 829 undergraduate student housing spaces available on campus. This includes 745 spaces in residence halls and 84 of 144 available spaces in Forester Village. The balance of spaces in Forester Village are assigned to married students, faculty in transition or left unassigned. All types of housing are well received by students with Miller and Meadows Halls being the most popular choice.

Enrollment growth will continue to drive the need for additional student housing. Based on a future enrollment goal of 1,200 undergraduate FTE students with a residency goal of 80 percent, approximately 132 additional beds will be needed as indicated in the chart below. These additional beds should be housed in a combination traditional/suite type facility on the site west of Livingston Hall. It should be noted,

however, that if a new athletic program is added, such as football or lacrosse, the University will need to consider gender demographics by residence hall based on the number of new student athletes and choose the type of new student housing accordingly.

Hardy Hall is the oldest residence facility on campus and is in need of a comprehensive renovation or replacement. The master plan recommends that as funds are available, this facility be renovated. This renovation should include new HVAC, electrical and plumbing systems, roofing, windows, doors, interior finishes and furniture.

UNDERGRADUATE STUDENT HOUSING FACILITIES					
Facility	**Type**	**Class**	**Gender**	**Existing Capacity (Beds)**	**Projected Capacity (Beds)**
Hardy Hall	Traditional, 1 Single, 61 Doubles	All Years	Female	123	123
Wright Hall	Traditional, 71 Doubles	All Years	Male	142	142
Baker Hall	Community Suites, 49 Doubles	All Years	72M, 26F	98	98
Roush Hall	Modified Suites, 66 Doubles	All Years	Female	132	132
Livingston Hall	Traditional, 68 Doubles, 6 Triples	All Years	54M, 100F	154	154
Miller Hall	Cluster Suites, 6 Singles, 21 Doubles	Soph. - Senior	Male	48	48
Meadows Hall	Cluster Suites, 6 Singles, 21 Doubles	Soph. - Senior	Female	48	48
Forester Village	Apartments, 21 Quads	Junior - Senior	Flexible	84	84
Future Residence Hall	Traditional/Suites	All Years	Flexible		132
Total Beds				**829**	**961****
Total UG FTE Students				**917***	**1,200**

* Fall Semester 2014
** Based on 80% resident goal

ACADEMIC FACILITIES

Academic Learning Enhancements

Please refer to the Academic Space Assessment included in the Appendix for a detailed description of academic learning enhancement observations/recommendations including interior finish material upgrades, classroom furniture replacement, technology upgrades, soft space enhancements, and space reconfiguration. One of the biggest hindrances to learning in several campus buildings is the poor condition of the heating and cooling systems. These deficiencies are described in the Academic Space Assessment and include poor indoor air quality, erratic temperature control and disruptive noise from window air conditioners. Loew-Brenn Hall, Merillat Centre for the Arts and Becker Hall are in the most urgent need of HVAC upgrades.

General Classroom Utilization Analysis

The General Classroom Utilization Analysis included in the Appendix states that available classroom hour utilization is well below the prescribed benchmark; however, rooms with capacities between 30 and 50 are in highest demand. One or two additional rooms of 50+ are recommended. The utilization analysis also points out that the three Miller and Meadows classrooms are not utilized as classrooms due to disruptive noise from adjacent mechanical rooms. Even with improvements, it is doubtful that these rooms will be used as classrooms due to their perceived long distance from faculty offices. Consideration should be given to repurposing these classrooms for a function such as Student Publications, Student Senate or other appropriate use.

Future Academic Building Sites

Areas are reserved in the Academic Quad and site of the current Maintenance Facility for academic buildings as enrollment growth and program needs dictate.

ADMINISTRATIVE FACILITIES

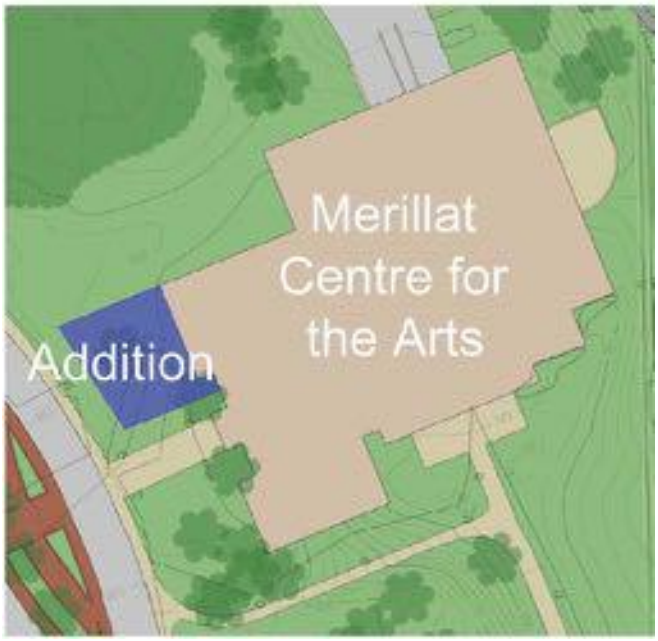
Administration Annex

Due to its age and poor condition, the University is advised to take this facility off-line (as recommended in previous master plans) rather than invest in a costly renovation. By removing this building, the University will reduce its facility operation and maintenance costs while freeing up more green space and opening up the view to and from the Academic Quad.

Richlyn Library has available space on the upper level to house the President and Advancement offices. This renovation will include the addition of new windows and the refreshing of interior finishes in public areas of the first floor. The Academic Center for Excellence will also move to the upper level of the library to allow Ministry and Missions to relocate to Loew-Brenn Hall.

Admissions/Welcome Center

The plan proposes an Admissions/Welcome Center addition to the Merillat Centre for the Arts (MCA). This location features convenient visitor access from the proposed north campus entrance off US 24 and from the west entrance off Guilford Street. In addition to high visibility, the new Admissions/Welcome Center is supported by abundant parking in close proximity. The spacious entrance lobby of the MCA will help to establish a positive first impression, while the convenient restrooms, elevator and dramatic view of campus will provide an ideal location to begin and end campus tours.



Depending on when the HUB renovation begins, the admissions offices might need to be temporarily relocated to the lower level of Livingston Hall.

Maintenance Facility

The Maintenance Facility location has become more prominent as the campus has grown and is now an aesthetic concern. The master plan reserves a more discreet site off of Gragg Street for future relocation of this facility. The current location is earmarked as a future academic facility site.

CAMPUS IMAGE

Campus image is the impression created by the University and received by prospective students, staff, current students, and the community-at-large created by not only buildings, site amenities, landscaping, the undisturbed natural landscape, and topography, but also through interactions with staff and students on campus. Enhancing and creating beautiful, exciting, and relaxing places where these interactions occur is the crucial part of the site portion of the master planning process. Currently the University is blessed with several beautiful natural amenities including the centrally located Lake Sno-Tip, mature canopy trees, and rolling topography. This master plan update seeks to identify multiple opportunities to create new spaces for the entire community to utilize and enjoy, while also enhancing the campus image.

Campus Boundary Markers

As in the 2002 Master Plan, a campus edge treatment is recommended to be established through boundary markers to define the campus at its perimeter in a way that reflects the history, character and longevity of the University. These markers are envisioned to be impressive, large, and permanent in character. Masonry piers with limestone caps regularly spaced along US 24, Guilford Street, and Stults Road will begin the campus "image-making" process for visitors, and prospective students. Repetitious large-scale plantings along this perimeter will further enhance and define the perimeter boundary. Plantings will be low-maintenance, drought tolerant, primarily native plant species selected to provide maximum seasonal interest and biological diversity.

Gateway Entrance

A new Gateway Entrance is proposed off of US 24 to create a major new presence along the highway with direct access into the Huntington University campus property. The possibility of locating the National Vice-Presidential Museum at this entry will increase the prominence of this gateway entrance. It is critical that this new entry be signalized to allow access from both directions and to provide safe egress from the University. The proposed gateway would be defined by a major sign and substantial plantings. A boulevard roadway will further establish the prominence of this entry and will guide visitors to a new roundabout where future roadways will connect westward to Ray Street near the PLEX and southward to Lake Sno-Tip.

Lake Sno-Tip Enhancements

The Lake Sno-Tip Enhancements take a much-loved beautiful campus icon, and increase its value by creating more reasons to be both near and ON the lake. To beautify the lake itself, and increase its health, two new aerating floating fountains have been proposed. The largest, a 50' ht. geyser, is located at the northeast end to provide a large focal point. The second is a more sculptural multi-tiered 30' ht. floating fountain centered on the HUB building to provide a focus off the terraces. Both fountains would be lighted with programmable lighting sequencing.

In order to access the lake itself, a bridge and dock structure with an overlook is provided at the southwest end of the lake between the HUB and Habecker Dining Commons. This bridge provides a link over the water to the trail system, as well as a gathering space on the lake. Paddleboats and/or stand-up paddleboards may be available for student/staff recreational use.

Around the perimeter of the lake, a linking-up of the existing walks to completely encircle the lake is proposed. The walk is envisioned to continue the hard surface pavement throughout all but the wooded area west of the lake, which will be a simple wood mulch path to lessen damage to trees and be more sympathetic to the surroundings.

A large (20' diameter) metal gazebo is shown on the Master Plan between Richlyn Library and the lake on a prominent point of land which will be visible from many vantage points around the lake, and serve as a venue for small gatherings or simply a quiet space for study and relaxation.

An amphitheater north of the Richlyn Library is proposed after the removal of the Roush House. This amphitheater would be tucked into the existing hillside with decorative concrete stone retaining walls creating the risers and large wide grass strips providing treads for this informal series of terraces. As a flexible social gathering amenity, it will have great views of Lake Sno-Tip and would be comfortable for one to read a book or one-hundred to attend a lecture or concert.

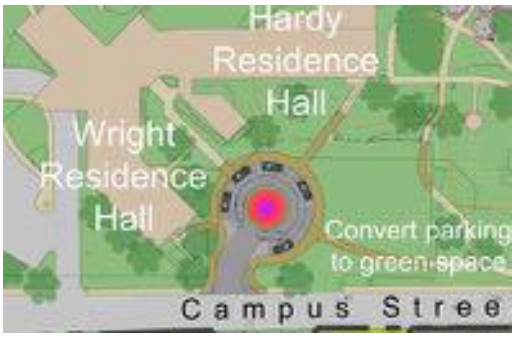
Landscape Improvements

The master plan recommends general landscape improvements to be both environmentally friendly (utilizing native plant species) and economically friendly (using planting design to reduce the need and cost of the current extensive pruning and shearing maintenance). The decline of mature trees on campus will need to be addressed with plantings of new trees to maintain and enhance the character of Huntington University's pedestrian friendly campus. Building entry plantings would also be renovated over time to reduce plant maintenance selections, but also create more aesthetic and environmentally conscious designs.

Removal of the Administration Annex will create additional landscaped space for campus relaxation and activities. This space would add some shade trees around the perimeter while leaving the center more open for student outdoor recreational opportunities. The major pedestrian walkway intersection northeast of the Administration Annex will be transformed into a "Gathering Node" with special paving and seatwalls. This node might also include a central amenity (planter bed, sculpture, or bell tower).

Landscaping improvements north of Baker Residence Hall would include the removal and filling in of the four deteriorating "bench pits". It would add several low brick and limestone seating walls adjacent to walks with landscaped flower beds. Additional landscaping (evergreen hedge and flower beds will also help enclose the existing plaza immediately north of Baker Hall.

Landscaping (including trees, flower bed, and shrubs) are recommended for additional green space for student activities with the creation of a new Hardy Hall vehicular drop-off. The existing Hardy Hall parking would be removed and relocated across the street in new parking lot along Campus Street.



New landscaping would be included with the proposed HUB and Lake Sno-Tip renovations and enhancements. Native plantings and low maintenance designs are proposed to add canopy, enclosure, texture, color, and interest to these improvements.

Parking Improvements

Becker Hall parking expansion is proposed for the area immediately west of the existing northwest Becker Hall parking lot. Approximately 23 new spaces would be added to help with campus parking issues including convenient parking for Forest Glen baseball games. This additional parking lot would include landscaped islands to control traffic circulation while adding aesthetic and environmental elements.

The proposed expansion of parking along the south side of Campus Street and adjacent to the existing residence halls would provide up to 225 new convenient parking spaces for students. These new spaces would be built on existing university property and expanded over time as future land acquisition is acquired. The parking would be designed with generous green islands and landscaping to create an attractive and environmentally sympathetic parking layout.

Land Acquisition/Land Bank

Non-University owned properties currently surrounded or adjacent to the existing Huntington University campus have been identified in the master plan as strategic land parcels advantageous to acquire for future campus development, safety, and continuity. The master plan designates land currently not proposed for development as a place-holder or land bank for future housing (student, married student, and retirement) and ministries presently undefined. Some other interim uses for the land bank area include cross country course and a wetland/bio laboratory.

OPTIONAL ATHLETIC PROGRAM IMPROVEMENTS

The University is considering expanding its athletic programs as a way to increase enrollment and revenue. If sports such as football and lacrosse are added, a number of improvements would need to be considered including the following:

- New Locker Room/Public Restroom/Concession Facility
- Visiting Team Bus Drop-Off/Parking Area
- Improved Field Entrance at Southeast Corner
- Expanded Bleacher Seating and Improved Press Box
- Artificial Turf
- Field Lighting

PROBABLE PROJECT BUDGETS

The probable project budgets for each identified project are based on **2015 estimated construction dollars** plus professional fees, contingencies, furniture and other associated costs. Depending on when a project is actually implemented, its budget will need to be adjusted for inflation. Land acquisition, financing, legal and interest expenses **are not included in these budgets**.

The actual budget for each project will depend on a variety of factors, including local construction market activity at the time of bidding, method of project delivery, and development of specific square footage needs and facility program requirements.

An operating endowment for projects that increase the size of the physical plant has been included to generate income to cover general maintenance and utility expenses.

Project	Basis	Probable Budget	Operating Endowment
STUDENT LIFE FACILITIES			
HUB Renovation/Student Center	21,253 SF x $165/SF	$3,500,000	$700,000
HUB Lakeside Terrace	Allowance	$395,000	$79,000
HUB Outdoor Room	Allowance	$420,000	$84,000
PLEX Addition/Renovation	16,500 SF x $242/SF	$4,000,000	$800,000
Hardy Hall Renovation	27,000 SF x $150/SF	$4,050,000	810,000
ACADEMIC FACILITIES			
Academic Learning Enhancements (Interior Finish Material Upgrades, Classroom Furniture Replacement, Technology Upgrades, Soft Space Enhancements, Improve Physical Deficiencies)	Annual Allowance	$200,000	
MCA HVAC Renovations	Allowance	$950,000	
Loew-Brenn HVAC Renovations	Allowance	$500,000	
Becker Hall HVAC Renovations	Allowance	$500,000	
ADMINISTRATIVE FACILITIES			
Relocate President, Advancement, Academic Center for Excel. to Library	10,000 SF x $95/SF	$950,000	$190,000
Remove Administrative Annex	Allowance	$130,000	
Admissions Addition to MCA	2,200 SF x $228/SF	$500,000	$100,000
Remove Roush House	Allowance	$36,000	
CAMPUS IMAGE IMPROVEMENTS			
Campus Boundary Markers	21 Brick Piers/Landscaping @ $10,000 each	$210,000	
New Gateway Entrance at National VP Museum	Allowance	$400,000	
New Gateway Entrance Drive, Roundabout, Landscaping	Allowance	$750,000	
Lake Sno-Tip Enhancements (Perimeter Path/Lighting, Floating Fountains, Gazebo, Amphitheater, Bridge Overlook/Dock)	Allowance	$483,000	$23,000

Project	Basis	Probable Budget	Operating Endowment
Remove Parking Lots at Hardy and Wright Halls/New Hardy Drop-Off	Allowance	$223,000	
Landscape Renovation at Baker Hall	Allowance	$148,000	
New Parking Lot at College Avenue	Allowance (23 spaces)	$147,000	$15,000
New Parking Lots for Residence Halls	Annual Allowance	$112,000	$10,000
OPTIONAL ATHLETIC PROGRAM IMPROVEMENTS			
Athletic Locker Room, Public Restrooms, Concessions Facility and Site Improvements	12,000 SF x $223/SF	$2,676,000	$535,000
Athletic Field Artificial Turf	Allowance	$1,300,000	$260,000
Athletic Field Lighting	Allowance	$250,000	$50,000
Bleacher/Press Box Improvements	Allowance	$500,000	$100,000
New Athletic Field Entrance and Service Area Improvements	Allowance	$114,000	

PROJECT IMPLEMENTATION TIMELINE

The following timeline suggests a logical order for the development of individual projects. It is not intended as a definitive calendar for development. Project duration includes fundraising, design documentation and construction. Projects are grouped to facilitate multiple fundraising campaigns.

PROJECT	YEAR										
	1	2	3	4	5	6	7	8	9	10	+
HUB Renovation/Student Center											
Student Publications moves to Miller or Meadows Classrms	■										
Admissions moves to Livingston Hall	■										
Admissions Addition to MCA	■	■	■								
HUB Building Renovation		■	■	■							
Lakeside Terrace and Outdoor Room		■	■	■							
Academic Learning Enhancements		■	■	■	■	■	■	■	■	■	■
Remove Roush House		■									
New Parking Lot at College Avenue		■									
Lake Sno-Tip Enhancements			■	■	■	■	■				
PLEX Addition and Renovation				■	■	■					
Campus Gateway, Boundary Markers, Entrance Road				■	■	■	■				
Landscape Renovation at Baker Hall				■	■						
New Parking Lots for Residence Halls					■	■	■	■	■	■	■
Library Renovation for President, Advancement, Academic Center for Excellence (ACE)					■	■	■				
Ministry and Missions moves to former ACE in Loew-Brenn							■				
Remove Administrative Annex							■				
Remove Parking Lots at Hardy and Wright Halls/New Hardy DropOff								■	■	■	
Optional Athletic Program Improvements* (Artificial Turf, Field Lighting, Field Entrance, Bleacher/Press Box, Locker Room/Public Restroom/Concession Facility)				■	■	■					

*Dependent upon approval of new athletic programs

DRAWINGS

Legend

Facility Improvements since 2002

Property Acquired since 2002

0 100' 200' 400'

Existing Campus Plan

October 2015

HUNTINGTON UNIVERSITY

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

Legend

- Huntington University Property
- Property to be Acquired
- Wooded Areas
- Future Roads/Parking

0 100' 200' 400'

Gateway Entrance Sign
Campus Boundary Markers (typ.)
U.S. 24
Proposed National Vice-Presidential Museum
Soccer Field
Soccer Field
Lighted Multi-Use Athletic Field
Locker Room/ Public Restroom/ Concession Facility
Landbank
Wetlands/Eco-lab
Land Bank & Cross Country Course
Future Student Housing or Retirement Housing
Land Bank & Cross Country Course
Stults Road
Gragg Street
Future Trailhead
Proposed Maintenance Facility
Proposed City Trail
Land Bank
Ray Street
Klopfenstein Tennis Courts
PLEX
Addition
Softball
Addition
Merillat Centre for the Arts
Bangs Memorial President's House
Lake Sno-Tip
Forest Glen Baseball Park
College Avenue
Habecker Dining Commons
HUB
Richlyn Library
Becker Hall
Future Academic
Merillat Drive
Hardy Residence Hall
Wright Residence Hall
Livingston Residence Hall
Meadows Residence Hall
Miller Residence Hall
Baker Residence Hall
Roush Residence Hall
Loew
Loew-Brenn Hall
Brenn
Future Housing
Campus Street
144 New Parking Spaces
Dowden Science Hall
Lake Street
Guilford Street
Kid's campus
123 New Parking Spaces
Housing & Land Bank
Guilford Village
Himes Street
North Avenue
College Avenue
Fruit Street
Future Academic
Ruth Street
College Park UB Church
Forester Village Apartments
Forester Village Apartments
Opal Street
Forester Lane
North Street

10-Year Facilities Master Plan

October 2015

HUNTINGTON UNIVERSITY

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

Enlarged Plan at Lake Sno-Tip Enhancements

October 2015

HUNTINGTON UNIVERSITY

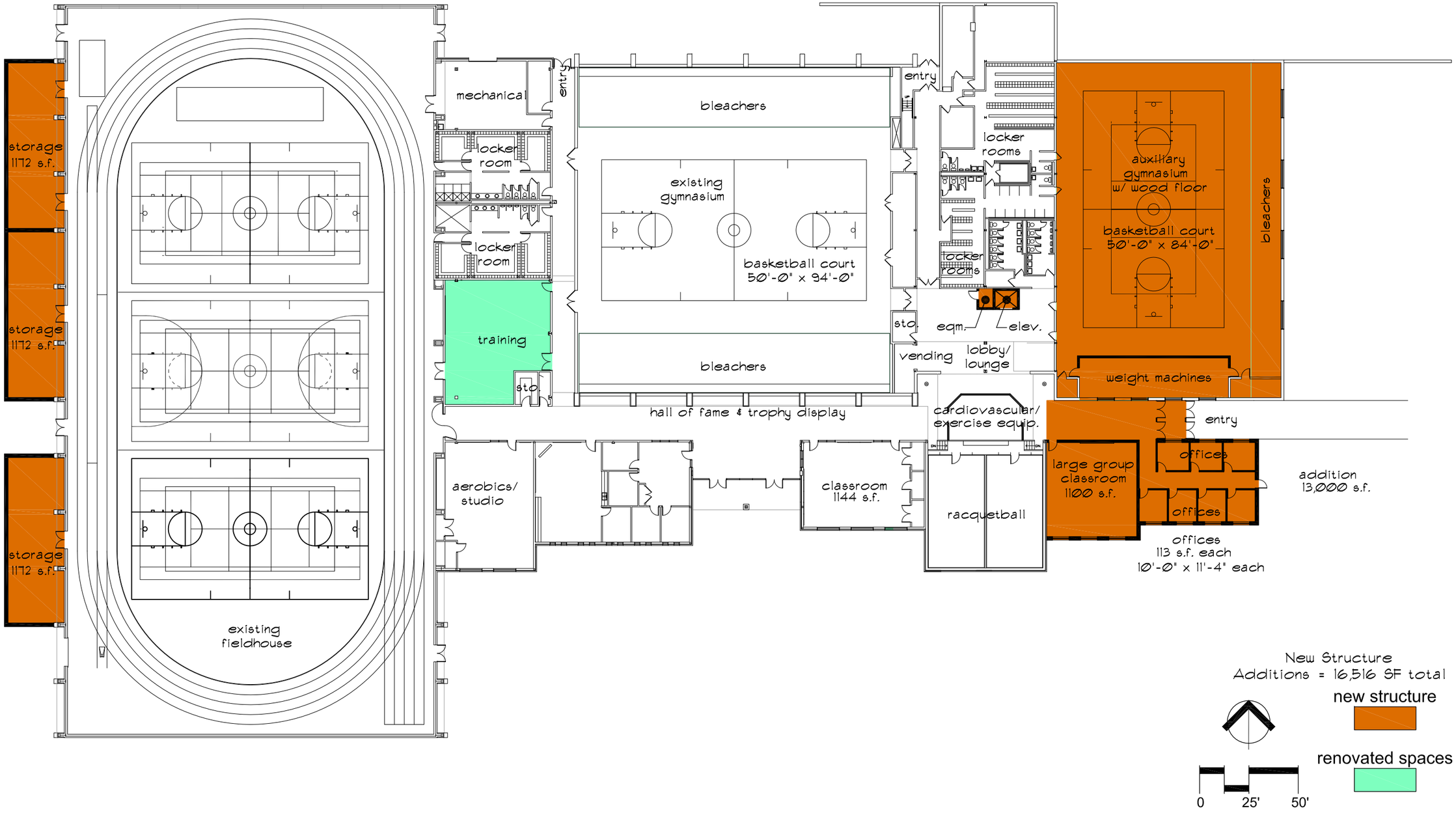
INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

HUNTINGTON UNIVERSITY

Enlarged Plan at HUB Area

October 2015

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT



New Structure
Additions = 16,516 SF total

new structure

renovated spaces

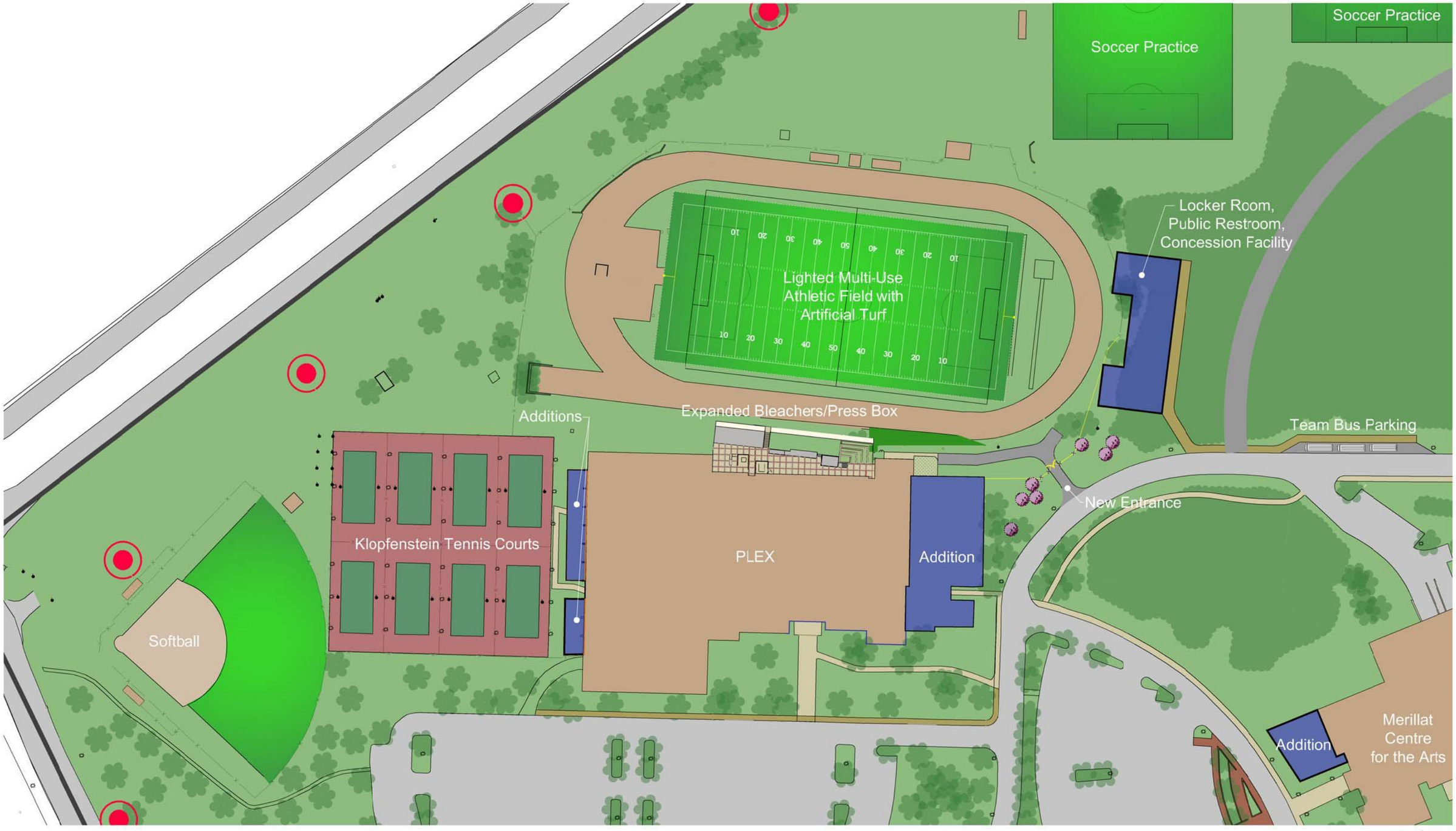
0 25' 50'

Conceptual Main Level Plan: PLEX Addition and Renovation

October 2015

HUNTINGTON UNIVERSITY

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT



HUNTINGTON UNIVERSITY

Enlarged Plan at Optional Athletic Program Improvements

October 2015

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

APPENDIX 1

SWOT Analysis for Physical Facilities

Huntington University Facilities Master Plan Update

Strengths

1. **What is special or unique about the HU campus?**

   A. We have a beautiful park-like campus, with lots of trees and a lake.
   B. Its size and design has a small community feeling which fits the culture and plays a part in the "HU Experience" for residential students and on campus faculty and staff.
   C. We have a very attractive campus setting. We operate with very little debt on our physical plant.
   D. It is a pretty, scenic campus...green space, no through traffic, nice looking buildings (for the most part). Has relatively good visibility from Highway 24. One historical attribute we were known for was our friendliness. Not sure if this is as true today.
   E. Lake Snow-Tip; Forest Glen and general park-like setting; well-spaced beautiful buildings; arboretum; quad; Becker Hall.
   F. The natural landscapes and the consistency of brick throughout all our buildings. Lake Snow-Tip is a great addition to campus. Also, closed campus feel make it a tight knit community without fear of cars.
   G. The sense of community that the campus evokes.
   H. Facility design and exteriors, Forest Glen, Chapel services.

2. **What physical advantages does the HU campus enjoy that other campuses may not?**

   A. We have a lake.
   B. Lake Snow-Tip, wooded setting, perimeter road, proximity/property ownership near high traffic highway - YMCA and hospital. Ft Wayne campus - location on hospital campus, newly renovated building connected to parking garage, shared program space with another university.
   C. We are located in the city limits of Huntington - access to local businesses. Campus buildings zoned according to type of activity. Easy to navigate and walk. Good amount of green space for social aspects not as much for activity. Room for expansion.
   D. See above answers.
   E. Proximity to a major highway, hospital and YMCA; open land and room to expand or for development.
   F. Lake Snow-Tip and the closed-to-car campus. As well as the open nature and great landscapes.
   G. The smaller size of the campus actually plays to the strength. When you live on campus you constantly feel connected to everything and you have a pulse of what is going on.
   H. Campus layout- facilities are within walking distances.

3. **What qualities of the campus are worth preserving or enhancing?**

    A. We should be leveraging our lake for maximum student enjoyment and recruitment appeal. Put a complete walking path around it, with a 20' wide band of grass above the path for students to sit by the lake.
    B. Community feeling, wooded and somewhat pastoral as opposed to busy, urban and impersonal.
    C. Residence areas are worth preserving as they are revenue producing. Places to walk and others designated for recreation.
    D. No through traffic.
    E. Park-like feel; focus on Lake Snow-Tip; mall
    F. The Quad is great as well as the trees on campus. Lake Snow-Tip is also something that needs to be preserved, and with more fountains and opportunities around the lake.
    G. The lake is definitely an area that isn't being utilized very well.
    H. Lake Snow-Tip, Forest Glen, Becker Hall

Weaknesses

1. **What parts of the campus don't work so well? (Consider parking, security, lighting, landscape, signage, sidewalks, outdoor seating, etc. as well as buildings)**

    A. Need to better utilize the "mall" walkway. More benches for seating.
    B. Small and many structures don't work as well as large and fewer with versatile space. Our administrative services are too spread out and fragmented. The Admin Annex is inconvenient and in rough shape. Classrooms aren't versatile for technology, discussion, project based learning. We need more classrooms/spaces for over 40 participants. We have prime space lightly used in Library and Science Hall. The PLEX needs a lot of work - pool, field house, training rooms etc.
    C. We currently do not have a workable Student Center. Campus security needs to evolve into a 24 hour presence. The campus mall sidewalk is deteriorating and sections are badly cracked. The "front door" to campus is not as inviting as it could be. Students would like to see more outdoor recreational space.
    D. Food delivery up the mall to the HUB - big problem. Signage needs to improve...I've heard multiple comments from visitors about no campus map to view. Many sidewalks are chipped or cracked. Landscaping needs addressed. Admissions needs to be more accessible.
    E. Placement of Student Union building; entrance and parking for DC (lower tier); lack of parking for baseball field and administrative buildings; not enough planned outdoor space; limited large capacity classrooms (50 or more); flat roofs; aging sidewalks.
    F. The parking situation is horrible especially around resident halls. The PLEX does not have enough space to accommodate all the sports teams and students who want to work-out. Roush House and Add Annex are both eye sores. The Student Center (HUB) does not function as a student center.
    G. Signage for visitors getting to the HUB is sometimes difficult. The inner campus offices might need better signage.
    H. Lake St. Mall & HUB, Administration Annex, student plaza in front of Baker/Roush Halls, energy efficient exterior lighting, Forest Glen parking/access.

2. What are the areas in which our competitors possess an edge or advantage?

A. Student Center
B. Admissions office, Student Center, up to date classrooms (furnishings, layouts, technology), athletic and fitness centers and spaces. Small auditorium for special events. Faith based icons - Taylor Memorial for example. Tunnels/covered walkways. Casual seating space inside and outside of buildings.
C. Student Center, athletic facilities, dining facilities, admissions location and facility, signage, and technology.
D. Some campuses have new, more attractive buildings. Biggest issue is not having a quality Student Center. Need to update our athletic facilities. Ours pale in comparison to some of our peers.
E. Contemporary Student Center; more access to physical fitness stations; location to retail shopping.
F. Sporting and workout facilities are out of date to other schools. Our Student Center is also not up to par with other schools like IWU. There is not a central space for students to spend quality time together on campus. This is our biggest facilities weakness. We have no "grand entrance".
G. Competitors have newer buildings and more student amenities. It's focused on the perks to the students which HU doesn't do.
H. Student Center, athletic facilities, residence life discipline-furnishings

3. How is the HU campus ill-equipped compared to peer institutions?

A. (No comment)
B. See response to question above. And include learning technology equipment. Coffee shop/casual dining.
C. We lag in terms of space for student-athletes to train for their given sport. Technology is inconsistent and there is currently no 5-10 year comprehensive plan for campus technology. Poor cash-flow keeps us from dealing with various deferred maintenance issues.
D. See above.
E. Same as above; including Visitor Center or Admissions' front door.
F. Parking is not good. We do not have a Student Center that can function as a student center. There is not enough space at the PLEX to account for all who wish to use it. Zurcher is out of date technology wise, and if we continue to grow it will not be big enough.
G. I think going outside of the current campus circle drive has its disadvantages so since it's a smaller campus expanding it might lose some of the qualities. Keeping everything close and connected would be beneficial.
H. J term, Student Center, location of Administration.

4. **What would you change about the campus?**

    A. (No comment)
    B. Do something with the lakefront, center campus to make it a gathering spot. Put a ground level coffee shop in. Consider renovating other space or building a library and use renovated library as Student Center - or plug an academic department into lightly used library space. Move Admin functions which have little residential student interaction to off campus or near campus space. Tear down Roush House. Renovate the softball field. Light the soccer turf field.
    C. Entrances to buildings should be well landscaped and inviting, similar to upper level of HUB. Admissions should be a front door operation. Students need a gather place - remodel HUB or start over. Old swimming pool space needs to be addressed. Southwest entrance to campus off 24 by the hospital needs to be developed.
    D. (1) New Student Center (2) More accessible area with parking for Admissions (3) Improve the mall area on the west end to make it more attractive. Figure out how to not allow delivery trucks up the mall.
    E. New major entrance; better located or serviced student center; improved student recreation facility, more bike paths and a bridge over the lake; retention pond for water feature by softball field; new seating and front appearance for softball field; create a nice fitness training center where the old pool is.
    F. I would like to add a Student Center or renovate the HUB to have a coffee shop and hangout area. Expand workout areas at the PLEX. Improve parking, and create easier and more eye appealing entrances to campus.
    G. I believe it's time for newer buildings and a focus on bringing students together like a larger Student Union where everyone can hang out.
    H. Visibility from US 24, city streets entering campus, NE entrance, complete major construction/renovation projects, ban vehicle traffic on <u>all</u> sidewalks.

Opportunities

1. **What best practices and trends are not yet provided by our competitors?**
    A. (No comment)
    B. Collaborating with community, schools, businesses, enterprises to develop programs, serve students/clients, and make social and economic impact. We have a taste of this in our Parkview FW and Peoria AZ experiences. Collaborations are messy but the payoff is great and it's the way of the future.
    C. (No comment)
    D. (No comment)
    E. On-campus retail space and opportunities for commercial activity; football; agriculture facilities; film studio; live television station.
    F. We have an awesome woodsy area behind the baseball fields and apartments that could be great reflection trails. Closed campus with lots of trees. Lake Snow-Tip can bring lots of water displays and opportunities for fun.
    G. N/A
    H. (No comment)

2. **What external changes present interesting opportunities? What situations can the campus take advantage of?**

    A. (No comment)
    B. HU alumni in economic development, city leadership positions. Frontage on US 24. Parkview partnership and proximity of Parkview Huntington to campus.
    C. (No comment)
    D. (1) How can we benefit from the National Vice-Presidential Museum and History Center if it's located on or adjacent to campus? (2) Can we develop our empty real estate now occupied by cross country course to accommodate real estate development that could benefit HU? Housing? Retail? (3) Better visibility on Hwy 24.
    E. Possibility of National Vice-Presidential Museum; relationship to Indiana AG emphasis.
    F. Creating a grand entrance as well as removing the Add Annex to open up more space to front campus, improve looks of entrances to buildings, nature trails in the back woods.
    G. (No comment)
    H. Thornhill, Arizona, Ft. Wayne OT, Quayle Center, senior living in Huntington, religious/political stances.

3. **How will new or expanded academic or athletic programs impact facility needs?**

    A. We need to take our new Agriculture program into account – especially as we consider the NE quadrant of our property.
    B. If football is pursued there are a variety of significant needs beyond the already existing issues with the PLEX and fields. Training facilities, weight rooms, playing and practice fields, equipment storage, offices, etc. More academic programs need unique spaces or at least program identifiable spaces. Prospective students are increasingly focused on being able to "see" their program on campus. OTA program and other health or science programs need lab space and equipment. Ag test plot space and DMA expansion space.
    C. (No comment)
    D. If we add football, we'll need a stadium and significantly more weight room and locker room space. Student expansion will likely test the limits of our current dining space, as well as residential housing space.
    E. Ability to add more teams and sports.
    F. It seems like classroom space is tight especially in Computer Science since they have one main classroom. The PLEX already does not facilitate what he have, feel and needs more space. Ministry department has one classroom and is one of the larger departments.
    G. These new programs for academic and athletic will put a strain on the current facilities. Remodeling and reinventing existing spaces should be a cost saving opportunity.
    H. Dining facilities, Thornhill and agricultural areas, additional athletic fields.

4. **What student needs are presently not being met by our facilities?**

    A. Gathering spaces for students – inside (Student Center) and outside.
    B. Student Center gathering space. One stop shop - business, registration, financial aid, bookstore, student IDs. Fitness and exercise needs - exercise equipment in the lobby isn't good.
    C. (No comment)

D. Student Center
E. Specialized learning labs (math and writing); no corporate space for large student gathering (student center). Some faculty and teaching space in Loew-Brenn is not adequate; not enough developed play space.
F. Medical center of any kind. Multiple eating options. Parking is not good. Off-campus housing opportunities. Some students don't like resident life. Having more married or apartment style housing can be very helpful.
G. Larger common spaces with amenities focused on student life.
H. Student Center, intramural facilities, chapel, outdoor space.

Threats

1. **What are the obstacles to campus growth and improvement?**

A. (No comment)
B. Funding. Being able to figure out how to balance the pressure of immediate needs vs. long term priorities. Recognizing the possible conflicts between building user friendly, contemporary vs. stately, permanent structures, the tradeoffs between leasing and ownership, etc.
C. (No comment)
D. Money.
E. Financial resources; otherwise we have much opportunity.
F. Money and fundraising. Opening up thoughts to larger campus fee.
G. Enlarging the footprint and developing new gateways that extend the campus might put a strain on the small close knit community and what HU is known for.
H. Dollars, enrollment.

2. **What situations should the campus avoid?**

A. (No comment)
B. Not consulting with people who will be using spaces as we design them. Worrying too much about copying what others have instead of designing for our unique needs and opportunities. Forgetting that we have "campuses" in Fort Wayne, on-line and perhaps in AZ.
C. (No comment)
D. (No comment)
E. Not leaving enough green space or play space for students.
F. Extreme debt and building new outdoor stadiums like the baseball field project... Facelifts to existing buildings that are not the HUB and the Dining Commons.
G. Not anticipating the needs of a future student and wiping out some of the "favorite" parts of the current campus. The central mall where people walk to classes and see everyone is important to maintain that.
H. Quick fixes, high debt

Other Comments

A. (No comment)

B. (No comment)

C. (No comment)

D. (No comment)

E. (No comment)

F. Our campus landscape is beautiful and needs to continue with that, but our buildings are old and could use some help. There are also a lot of spaces that need to be expanded especially if enrollment continues to rise.

G. (No comment)

H. (No comment)

APPENDIX 2

Planning Priorities

Rank	Planning Options/Issues	Most Important	Significant
	Campus Image/Grounds Improvements		
5	Develop the lakefront as a student/staff amenity		4
	Integrate city pedestrian trails with campus		
7	Develop the walkway in front of the HUB into a student amenity		2
5	Develop a new, more inviting campus gateway entrance from US 24		4
	Determine if Farm Property should be retained, and if so, identify best uses		
7	Address insufficient parking		2
7	Improve landscaping, especially at building entrances		2
	Future land acquisition		
8	Improve sidewalks		1
	TOTAL	**0**	**15**
	Academic Facilities		
4	Increase number of large capacity classrooms		5
8	Improve quality and consistency of classroom technology		1
8	Provide more flexible/collaborative type classroom furniture		1
7	Add/improve soft space (gathering/study areas) in academic buildings		2
8	Replace or renovate Art Annex		1
	TOTAL	**0**	**10**
	Student Life Facilities		
	Build a new chapel facility to accommodate entire campus		
2	Renovate the HUB to better serve as a student center	1	
	Repurpose the Library as a Student Center/convert HUB to Library		
2	Build new Student Center	6	
	Provide more dining/retail choices (coffee shop, cyber café, etc.)		
1	Renovate and expand MPERC (include weight, fitness, athletic training)	7	
6	Upgrade Student Housing		3
8	Identfiy future Student Housing		1
	Provide more apartment and married student housing		
8	Provide more outdoor student recreational areas		1
	TOTAL	**14**	**5**
	Administrative Facilities		
	Remodel and expand Becker Hall to consolidate student services and administrative staff		
7	Remove Roush House		2
3	Remove Administrative Annex - Relocate President's Office/Advancement and Christian Ministries		6
	Build new, more accessible Welcome/Admissions Center on site of Roush House		
	Include Welcome/Admissions Center as addition to Becker Hall		
	Relocate Welcome Center to UBHQ		
3	Relocate Welcome/Admissions to MCA		6
8	Relocate Maintenance Facility		1
	TOTAL	**0**	**15**
	Other Planning Options/Issues		
8	Plan for National Vice Presidential Museum		1
8	Add a football program with Huntington County Schools partnership		1
8	Acquire Kmart property for future programming		1
	Randallia Campus		
	Arizona Campus		
7	Thornhill		2
4	Graduate and Professional Studies - Townsend Institute		5
	TOTAL	**0**	**10**

APPENDIX 3

2015 Facilities Master Plan

Huntington University
Huntington, Indiana

Academic Space Assessment

July 22, 2015

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

Introduction

This academic space assessment is intended to serve as a tool for the board, administration and staff to consider how best to make improvements to instructional space campus wide. The report would not have been possible without the helpful assistance and participation of the Huntington University faculty during space assessment interviews held on campus in May of 2015. A special note of thanks to Mike Wanous, Sarah Harvey and Jerry Gressley for assisting the InterDesign team with registrar information and building access. It is our hope that this report will be used to reach consensus and energize Huntington University for the next 10 years.

Administration Annex

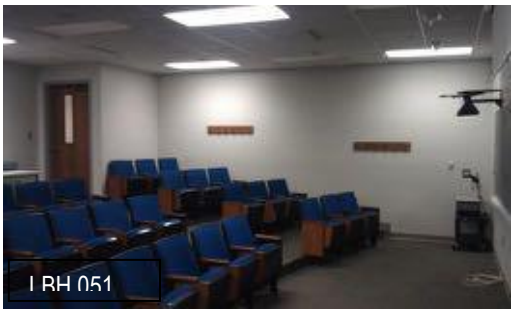
The Administration Annex is home to one classroom that resides on the lower level floor below the President's Offices. While the room is of adequate size and shape it is not handicap accessible from the pedestrian paths of campus. There are noise separation issues due to the activities of the adjacent spaces. There are signs of water infiltration at the windows and the windows themselves do not assist in controlling the temperature of the room due to age and failed gaskets. Overall, the building is in need of either a comprehensive renovation or occupants need to be relocated into other buildings and allow this building to be removed.

Becker Hall

Becker Hall is the most historic and one of the most important buildings on the campus, having undergone a partial renovation of the first and basement floors in 2001. In every classroom, especially the second floor media labs, the mechanical systems are inadequate and the lack of lighting controls causes a hardship on the classes. The window air-conditioning units on the second floor do not adequately control the heat load and are a noisy nuisance to the learning environment. There is no permanent heat or cooling source on the second floor when required to control the heat produced by the computer equipment itself. Glare is controlled but the fit and finish of the blinds is not consistent across the building. While there is an elevator in the building, there is no architecturally appropriate signage at the south entrance and the basement labs are not fully accessible. The third floor studios need further noise separation at the floor from the rooms below. Room 305, the screening room, needs a review of the mechanical system due to noise observed and is likely a nuisance during a screening. All labs/classroom have projectors and sound systems, but there

appears to be a lack of screen sharing technology to facilitate moving student work onto the projector with ease. All studio and lab spaces are in need of additional storage via modular systems that can be moved among the second floor labs as required. The fit and finish on the second floor is in need of replacement to match the completed renovation; future capital budgets should plan for these replacements and updates.

Loew-Brenn Hall (LBH)



Loew-Brenn is an academic workhorse and was last renovated in 2003 with recent finish refreshment to rooms used by the business department in the lower level. The building is ADA accessible with the exception of the Brenn (LBH 016) basement, which does not have an interior/exterior accessible path. The circulation path between the Loew basement and Brenn basement is awkward and circuitous. There are temperature control issues due to pneumatic controls and reheat coils that are reaching the end of their service lives and in need of replacement. Also noted was mechanical system noise from air handlers on each floor that are reaching the end of their service life. See Appendix C for a detailed mechanical report. Noise transfer was noted between classrooms and between classrooms and corridors on the first and second floors. Lighting and lighting controls are adequate, but in room 116 the controls at the door appear to have been installed backward in comparison to similar room configurations on the floor. The glare control is adequate but current vertical blinds are a noise distraction when windows are left open. It is recommended the blinds be replaced with a rolling shade product that can be implemented in all academic buildings. In the Loew portion of the building, the skylight seals and/or flashing are causing deterioration of wall board making 268 and 275 less than perfect instructional rooms. Room 108 is a long, narrow room and should be considered for modification of its proportions and occupancy capacity to provide scheduling flexibility and improve the instructional experience.

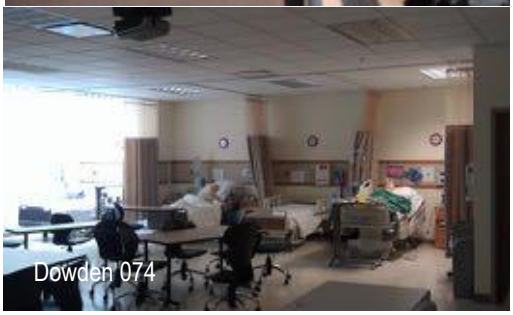
Instructional rooms should be targeted for furniture replacement, including the teaching desk/lectern. While the furniture is in good condition, it does not allow for flexibility and group instruction methodologies for a 21st century student. The faculty indicated a desire to purchase the *Node Chairs* by Steelcase and retrofit room LBH 153 with this furniture line. This retrofitted room should be tracked/charted for an academic year to formulate a campus plan for furniture replacement with an appropriate product line for the classroom setting. There is a lack of large capacity rooms of 50 to 75 seats as well as rooms with capacity of less than 15 students for

student/teacher collaboration in Loew-Brenn. The Learning Center located in LBH 102 could be relocated to provide additional instructional space. With minor renovations, an additional 50 seat classroom would be available from the existing Learning Center space. Further, modifying Room 202 by relocating the east or west wall in conjunction with mechanical modifications will create an addition classroom with 15 to 20 seats. The lounge/collaboration spaces on the first and second floor are in need of soft furniture replacement to encourage collaboration. The fit and finish of the building is wearing well, but future budgets should plan for carpet replacement in all classrooms and floor finishes in the corridors.

Dowden (Science) Hall

Dowden Hall is the campus jewel completed in 2003 and is accommodating the rigors of daily instruction. The building is ADA accessible but the wayfinding from the southeast surface lot is in need of an architecturally appropriate sign at the southeast entrance to designate the accessible path to the disabled. This southeast entry is in need of door openers as it is the nearest door to the accessible parking lot. The mechanical system is performing (on day of assessment the building was transitioning from heating to cooling) but there are unacceptable exhaust air noises within the labs. There are room conditioning issues in 175 and 177 due to the numbers of computers in each of these rooms; additional cooling is recommended. The location of the whiteboards should be relocated to the rear wall as the location of the operable partition, when open, creates sightline issues for those sitting at workstations in the corners of the room. Rooms 150 and 250 are not conducive to instructional learning (i.e. math/science class) due to the furniture and chalkboard placement; this limits where science/math classes are located.


Dowden 177


Dowden 074


Dowden 150

For the Nursing department, the front office is crowded and in need of reconfiguration to accommodate student use and student/teacher interaction. The Sim Lab (Dowden 074) needs to be reconfigured to enhance the teaching experience as the space is crowded. The Sim Lab should be relocated to room 070 to provide additional instructional space in 074. Rooms 080, 081 and 082 are in need of modification to a single room to create a computer lab for use of the nursing degree program; nursing care has changed since the building was completed and these modifications are not uncommon.

Each instructional room has IT infrastructure for a computer but no permanent classroom computer or smartboard. A teaching opportunity is being missed by the observation deck being locked; this is

excellent outdoor teaching space that provides a nice view of campus and an opportunity to share the new agriculture program with the general campus via a roof top garden/research facility. The use of computer lab, science lab and classroom scheduling will need to be considered as the agriculture program grows over the next couple of years. The faculty indicated the desire to secure the labs with student card ID/key fob to avoid distribution/management of keys; room 162 would be an ideal room to begin student implementation. The fit and finish of the building is wearing well, but future budgets should plan for carpet replacement in the instructional areas and replacement of soft furniture in the student lounge areas.


Dowden 266

Merillat Centre for the Arts (MCA)

The MCA was completed in 1990 and has been a versatile addition to campus life. The facility is in need of various improvements to accommodate the needs of multiple degree programs using the space. There is a lack of IT technology in the classroom setting and the WIFI signal needs improvement in the lower level/basement of the building. The mechanical system has noise issues and no humidity control that is most noticeable in the practice/performing art spaces. There are temperature control issues across the building and in particular where the original use has been modified for current curriculum requirements. It is recommended that the heating/cooling plant and air handlers, which are at the end of their service life, be replaced as soon as funding is available to avoid damage to building finishes and musical instruments due to temperature and humidity fluctuations that were evident during the assessment. The ductwork of the building, especially 260, 270 and 280, should be cleaned to improve the performance of the system and air quality. See Appendix C for additional information.


MCA – Scene Shop

Improved acoustical separation, in the form of acoustical sweeps, wall attenuation, etc. is needed in rooms where performing arts are rehearsed and where rooms abut Zurcher Auditorium, Lecture Hall 150 and Recital Hall 160. The Studio Theater serves the 'need' as a small theater but the room construction, circulation and ancillary spaces that connect to it make it a less than adequate space. The Studio Theater was never intended as performance space but as a room to prepare shows that would move up to Zurcher Auditorium. The tech booth that services the Studio Theater is not acoustically isolated from the performing space nor Costume Shop (M128), creating a distraction during performances. While not scheduled for classroom use, the MakeUp/Dressing Room (M123) with adjacent Green Room and Costume Shop (M128) do not adequately support


MCA - Lobby

either performance space and serve more as storage rooms than the original design intent. These rooms have temperature issues that are certainly compounded when a performance occurs in either venue. Conditioned off-site (either campus or community) storage should be considered or high density storage purchased to return some of these spaces to their intended uses. The noise transfer due to the orchestra pit and pit entry location prevents the simultaneous use of the Zurcher and Studio Theater and subsequently hinders sharing the arts with campus.

The scene shop, while efficient, does not have enough storage or staging area when multiple productions are in preparation. Presently surplus scenes/props are stored off site in an unconditioned space leaving them susceptible to damage; additional building square footage for the scene shop is recommended. Additional power drops (from ceiling) and sink/clean up space would offer immediate improvements at minimal cost to the scene shop. The ladder stage left (looking toward stage from scene shop) should be replaced to improve safety and mobility of student staff. The exterior scene shop door should be replaced with an insulated overhead door for greater mobility of scene building material and gear from traveling shows. The exterior loading dock should be a covered exterior space and the aged dock lift replaced to assist the needs of visiting shows where multiple trailers might be required.

The fit and finish of the building is wearing well, but future budgets should plan for flooring, paint, Studio Theater chairs and risers and classroom lighting replacement in the next 4-6 years. In addition, the lighting system within Zurcher, both House and Stage, are nearing the end of their service life and should be replaced in the next 2-3 years. The inspection of rigging in Zurcher Auditorium and Studio Theater should occur annually (and kept on file in the facilities office) and deficiencies corrected in a timely fashion.

The Robert E. Wilson gallery is in need of a complete finish replacement. The faculty advised that the wall construction (wall board and studs) limits the installation of what can be placed on the wall. There appears to have been water damage to the walls. The floor needs to be refinished and the lighting fixtures replaced as resources allow. Lack of humidity control is an issue especially in the storage room.

It is recommended that the theater department review its strategic plan in conjunction with a space planning exercise to maximize MCA. From the space planning exercise a feasibility study should be prepared to formulate modifications and enlargement of the building with associated costs.

Art Annex

The Art Annex is in its second temporary facility located to its present location in 1998 (first in 1994). The Annex contains 3D ceramic/clay, wood and metal studios that are a part of the Fine Arts curriculum. The Annex is located due west, across a court yard from the Studio Art Building. The building, a former house, has been retrofitted to accommodate 3D art needs. The use of both the floors as studio spaces, is a less than ideal learning environment. The unnatural separation of the wood shop and kiln shop from the rest of the annex makes workflow a

challenge especially from November to early March. There is not enough classroom, prep and storage space to educate students. The faculty advised that the breakers trip on a regular basis; the electrical service is not adequate for equipment in the buildings. There is a desire to create a dedicated metal media studio, but it can only be facilitated in the courtyard as the weather allows at present. There are major accessibility deficiencies requiring correction to allow all students access to the arts.


Annex – Wood Shop

The placement of the building leaves it hidden from the main drive and distant from the rest of campus. This facility is in need of a single story replacement building with adequate space for students and faculty. Short term, it is recommended that the Art Department review its course loading and look for ways to stagger the use of the studio space to minimize disruptions between the two floors.

Studio Art Center (SAC)

The Studio Art Center was completed in 2012 to relieve the burden on classroom space at MCA and the Art Annex. The SAC provides studio space for 2D graphic works. The building is currently not ADA accessible with the unfinished basement and faculty office space being used for class work. There is a lack of acoustic control which makes executing instruction difficult. The photography studio is not of adequate space for documentation nor exploration of the medium. The lighting controls are adequate but the ratio of natural versus artificial light should be improved to enhance the space. There does not appear to be enough cleanup/sink space given the scheduled class sizes. The facility lacks adequate storage for painting canvas, drawing boards, flat files and lockers. The mechanical system should be evaluated; there is a humidifier in the mezzanine offices that is running year round. A student lounge, possibly shared with the Art Annex, would offer collaboration opportunities. There are noticeable cracks in the basement wall and first floor structure that should be evaluated by a structural engineer and monitored moving forward. The faculty indicated the desire to secure the labs in SAC and Art Annex with student ID card/key fob to avoid distribution/management of keys. The placement of the building is distant from the balance of campus; one would not know of its existence without the assistance of a campus map. It is recommended that the art department review its course loading and look for ways to stagger courses facilitated in the studio space to minimize disruptions.


SAC – Main Instruction

Merillat Complex and Fieldhouse (PLEX).

Within PLEX there are a limited number of courses scheduled. The majority occur in the Fieldhouse, 115, 215 and 245. The entire building is accessible with exception of the interior racquetball courts. The

heating/cooling plant and air handlers are at the end of their service life. They should be replaced as soon as funding is available to avoid damage to building finishes. The lighting system of the building, while reliable, is not quiet especially in the fieldhouse. Additional acoustical controls in the fieldhouse, weight and cardio equipment rooms are recommended. The exercise room needs additional storage solutions within or near the room. The pool is no longer in use and is off limits to public due to the condition of the roof structure. In a 2011 structural report (Appendix D), it was noted that the pool sub-structure has repairable corrosion, but that the roof system is in need of a complete replacement back to the sub structure. For the university to reclaim this as functional space, repairs are required before any modifications to the footprint area occur. It is recommended that the University take action on the programming/space use analysis completed by InterDesign and facilitate improvements to the PLEX as resources allow.

United Brethren Headquarters/Graduate and Professional Programs

Within the UBH building there are three classrooms to serving the graduate/professional programs offered by Huntington University. The rooms are shared spaces with UBH staff so flexibility of furniture poses a real challenge to those classes that require it. All rooms lack proper soundproofing against adjacent offices or corridors. Room CLS2 provides adequate lighting control while improvements should be budgeted for CLS1 and CONF6. These rooms cannot be used on a regular basis for the Townsend Institute due to UBH scheduling taking priority. The mechanical systems provide adequate temperature control, but the system noise impedes the learning process during classroom instruction. Long term planning should consider the location of the graduate and professional programs and their relationship to the rest of campus.

Miller and Meadows Residence Hall:

Room 022 in Miller and Rooms 014 and 022 in Meadow Residence Hall are available for classroom instruction but for the 2014/2015 academic semesters were not scheduled for any course work. These rooms are appropriately sized and furnished but the adjacent mechanical room noise would deter any faculty from holding a class on a regular basis. With the implementation of sound attenuation,

these rooms could accommodate some of the course load that occurs in Loew-Brenn Hall due to scheduled occupancy.

GENERAL RECOMMENDATIONS

Instructional Space

The typical undergraduate spends as many as 400 hours a year in classrooms, so it is important that they be carefully designed to support a variety of teaching styles and reduce distractions. Consideration should be given to the use of carpeting to absorb unwanted sounds, bright, even and diffuse lighting to reduce harsh glare and flexible table and chair seating designed to accommodate lap-tops and group work. Lecture space should be designed to facilitate small group activity by providing portable chairs and ample space to circulate. The education process continues to change and so must the classrooms that support the learning experience. A decision on the instruction writing surface, whether chalk or dry-erase board in each classroom should be clarified and updated accordingly as funding allows. A minor investment in upgrading the finishes, furniture and technology in Huntington University's classrooms and faculty offices would go a long way toward improving faculty morale and the quality of instructional space.

Soft Space

A common request among faculty members during our interviews was the desire for informal space for faculty and students to interact before and after classes. Education occurs not only in the formal lab or classroom, but also in study/lounge spaces strategically placed throughout a facility. These "soft spaces" should be designed to promote spontaneous encounters and serve as a venue for casual gatherings and unstructured learning opportunities. Tables to facilitate small group work, accessible electrical outlets, and comfortable, movable furniture should be considered for these spaces.

Classroom Technology

Many of the faculty cited the lack of an in-room computer as a hardship due to the amount of time it takes to connect and boot up their own computers. As resources permit, it is recommend that all classrooms be equipped with fixed computers that accommodate HDMI/USB connections. Interactive whiteboards should also be considered in all classrooms. It is recommended that the University explore a lease agreement for audio/video/computer equipment to provide faculty/staff with the most up-to-date equipment. A technology master plan should be created and implemented over the next 7 to 10 years. This plan should dovetail with improvements to the mechanical and electrical system of each building as funding allows.


LBH –
Equipment Example


LBH –
Equipment Example

The Huntington University IT staff are gradually addressing campus-

wide technology challenges with limited resources.

Maintenance, Repairs and Building Improvements

The faculty acknowledged that they could do a better job in relaying building and IT requests to the appropriate department. The communication process between physical plant and faculty needs to be streamlined. It is recommended that the department chairs walk through all of the instructional spaces with the physical plant director once a semester to make sure that problems big and small are noted and corrected in a timely fashion to minimize deferred maintenance moving forward.

All membrane roofs should be inspected yearly and corrections to the membrane made as quickly as possible; water can be a destructive force.

We would encourage the University to investigate the lighting, mechanical and plumbing technologies and how they can help Huntington University lower operating expenses. The use of LED fixtures and lighting, occupancy sensors, low-flow plumbing fixtures and smart mechanical system, while having increased upfront costs, will result in reduced costs for the life of the product. Further, the use of solar power, potentially upon the roof surfaces at the PLEX, would help reduce energy costs as well as demonstrate a concern for the environment.

Mechanical/Electrical Service Contract

A reoccurring deficiency noted during the assessment process is either an issue with the mechanical and/or electrical system in a room or building. The Huntington University Facility/Maintenance staff could use outside support for large projects. It is advisable to establish a service contract with a reputable mechanical/electrical contractor to help facilitate yearly maintenance on mechanical/electrical equipment to minimize failure at the most inopportune time. Further the University needs to make a concerted effort in the fiscal budget to address deferred maintenance projects across the campus. Currently Huntington University is soliciting energy management proposals and assessing opportunities to lower mechanical/electrical operational cost.

Low Cost/High Impact Improvement Projects

The following is a list of small projects at each building that would offer long term improvement to the learning environment.

Becker Hall:
1.) Complete installation of centralized air conditioning in the second floor labs.

Loew-Brenn Hall:
1.) Replace carpet in all classrooms.
2.) Replace floor finish in corridors.
3.) Add whiteboard/smartboard technology to a first floor classroom.

Dowden Science Hall:
1.) Modify nursing computer lab from three rooms to one combined room.
2.) Install ADA hardware to better serve the southeast parking lot entrance.
3.) Replace soft furniture in student lounge area on all floors.
4.) Begin implementation of fob/card reader system in science labs.

Merillat Centre for the Arts:

1.) Clean all ductwork within building.
2.) Add second clean up sink to scene shop.
3.) Add four flexible power drops in scene shop.
4.) Add/Replace door seals in rooms 110, 120, 140, 150 and 160 to control sound leakage.
5.) Replace corridor carpet on upper and lower levels.

Studio Art Center (SAC)

1.) Replace existing sink with a cleanup sink and add a cleanup sink to accommodate class schedule. Modify counter top as required to accommodate two sinks.
2.) Review mechanical system and balance as required.

Art Annex:

1.) Upgrade electrical service to accommodate building load.
2.) Replace existing basement bathroom with two deep basin sinks to accommodate student load. Improve lighting in this room.
3.) Install concrete slab at entrance for outdoor instruction.

Miller/Meadows Hall

1.) Install noise isolation products on common wall shared with mechanical room
2.) Replace carpet in rooms.

INSTRUCTIONAL SPACE ASSESSMENT

A comprehensive physical assessment of all instructional space is summarized in the assessment charts included in the Appendix A and B. Each space is evaluated against 19 different assessment criteria and scored in relation to each other. The criteria consist of physical features and characteristics that are considered essential for Huntington University to compete in the marketplace for students and faculty.

(Deficiences Noted with shaded Box)	Building/ Room # (Occupancy)	ADMIN ANNEX -CLS1 (36)		LBH - 16 (40)	LBH - 51 (50)	LBH - 53 (16)	LBH - 55 (45)	LBH - 65 (45)	LBH - 108 (48)	LBH - 116 (48)	LBH - 122 (36)	LBH - 132 (30)	LBH - 153 (32)	LBH - 155 (24)	LBH - 159 (18)	LBH - 165 (44)	LBH - 204 (30)	LBH - 208 (24)	LBH - 210 (8)	LBH - 251 (24)	LBH - 275 (17)		MCA - M150 (60)	MCA - M140 (125)			
Assessment Criteria																											
Adequate Room Size for Occupancy				■														■									
Appropriate Room Shape									■			■				■											
ADA Accessible		■				■	■																				
Furniture Facilitates Reconfiguration						■	■		■				■	■		■		■	■	■	■		■				
Appropriate Room Finishes																											
Adequate Acoustics																							■				
Reliable Wireless Access														■		■											
Adequate Power											■		■	■	■									■			
Appropriate Technology																			■								
Appropriate Whiteboard/Chalkboard/Screen																			■								
Projector/TV																			■				■				
Sound System							■							■	■												
Natural Light				■	NA	NA	NA																	NA			
Adequate Sun/Glare Control		■			NA	NA	NA																	NA			
Variable Lighting Control		■			NA	NA	NA						■	■									■	■			
Quiet Lighting System		■					■		■	■			■		■				■		■						
Reliable Temperature Control		■		■	■	■	■	■	■	■	■	■	■	■	■	■					■		■				
Quiet Mechanical System					■	■	■		■	■	■	■	■	■	■	■	■	■	■		■						
Room to Room Noise Separation		■		■	■		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■		■	■			
Score (out of 19 total points)		13		15	13	12	10	17	13	15	15	15	12	11	13	13	17	15	12	17	14		13	14			
Grade		D+		C+	B-	C	D-	B-	D-	C+	C+	C+	D-	F	D+	D+	B+	C+	D-	B-	C-		C+	B+			

Huntington University

General Classroom Assessment -Appendix A

(Deficiences Noted with shaded Box)	Building/ Room # (Occupany)	PLEX - P215 (45)	PLEX - 245 (35)		DOWDEN - 54 (24)	DOWDEN - 121 (30)	DOWDEN - 122 (30)	DOWDEN - 124 (24)	DOWDEN - 125 (56)	DOWDEN - 126 (16)	DOWDEN - 150 (15)	DOWDEN - 224 (40)	DOWDEN - 225 [Hiner] (80)	DOWDEN - 226 (40)	DOWDEN - 250 (15)		UHBQ CLS 1 -24 (25)	UHBQ CLS 2 - 15A (15)	UHBQ CONF 6 - 15B (6)		MILLER RESIDENCE 022	MEADOWS RESIDENCE 022				Score (Out of 39)	Grade
Assessment Criteria																												
Adequate Room Size for Occupancy																	■									36	A-
Appropriate Room Shape																										36	A-
ADA Accessible													■													35	B+
Furniture Facilitates Reconfiguration									■		■				■		■	■	■							22	F
Appropriate Room Finishes																										39	A
Adequate Acoustics																					■	■				36	A-
Reliable Wireless Access																										37	A-
Adequate Power																										34	B+
Appropriate Technology					■												■									36	A-
Appropriate Whiteboard/Chalkboard/Screen																			■							37	B+
Projector/TV																			■							36	B+
Sound System									NA				■					■	■							32	B-
Natural Light		NA	NA						NA								NA	NA	NA							28	A
Adequate Sun/Glare Control		NA	NA						NA								NA	NA	NA							28	A
Variable Lighting Control		■							■								■		■							27	C+
Quiet Lighting System																	■		■							29	C
Reliable Temperature Control																										23	F
Quiet Mechanical System		■			■	■	■	■	■	■	■	■	■	■	■		■	■	■		■	■				6	F
Room to Room Noise Separation			■			■	■	■		■				■			■	■	■		■	■				8	F
Score (out of 19 total points)		15	16		17	17	17	17	15	17	17	18	16	17	17		10	13	9		16	16					
Grade		B+	A		B+	B+	B+	B+	C+	B+	B+	A-	B	B+	B+		F	C	F		B	B					

(Deficiences Noted with shaded Box)	Building/Room Number (Occupancy)	BECK - 4 (10)	BECK - 5 (10)	BECK - 6 (10)	BECK - 302 (17)	BECK - 304 (15)	BECK - 305 (screen room) (28)	BECK - 308 (8)	BECK - 201 (15)	BECK - 204 (15)	BECK - 205 (15)	BECK - 206 (17)	BECK - 301 (15)		MCA - ANNX - UPPER (10)	MCA - ANNX - LOWER (10)	MCA - ANNX - FIRING BUILDING (0)	MCA - ANNX - WOOD SHOP (5)	MCA - M106 (10)	MCA - M110 (50)	MCA - M120 (50)	MCA - M121 (20)	MCA - M128 (12)	MCA-M160 (35)	MCA - M170 (25)
Assessment Criteria																									
Adequate Room Size for Enrollment			■		■			■	■			■			■	■	■	■	■			■	■		
Appropriate Room Size/Shape			■			■				■		■			■	■	■	■	■			■	■		
ADA Accessible		■	■	■											■	■		■							
Accessible without Interrupting Other Classes		■	■		NA	NA						■			■	■							■		
Appropriate Furniture and Equipment		■	■								■	■	■		■	■	■	■	■		■		■		
Adequate Storage/Prep		■	■		■	■				■	■	■	■		■	■	■	■			■	■	■	■	
Appropriate Room Finishes					■				■	■	■	■			■	■	■	■							
Adequate Acoustics		■	■	■	■	■							■		■		NA	NA			■				
Reliable Wireless Access		■	■	■									■		■	■	■	■			■		■	■	
Adequate Power		■	■	■					■	■	■	■			■	■	■		NA		■		■	■	
Adequate Technology		■	■	■	■	■									■	■	■	■	NA		■		■	■	
Sound System													NA		■	■	NA	NA	■				NA		
Natural Light			■			NA		NA					NA		■	■	NA		NA	NA	NA	NA	NA		
Adequate Sun/Glare Control		■	NA			NA		NA					NA		■	■	NA	NA	NA	NA	NA	NA	NA		
Variable Lighting Control		■	■	■	■			NA	■	■	■	■	■		■	■	NA	NA	■	■	■	■	■	■	
Quiet Lighting System						■		NA							■	■									
Reliable Temperature Control		■	■	■					■	■	■	■			■	■	■	■	■			■			
Quiet Mechanical System							■		■	■	■	■			■	■	NA	■		■		■			■
Room to Room Noise Seperation						■	■								■	■	NA	■		■				■	■
Score (out of 19 total points)		8	5	12	12	10	17	14	13	12	12	9	11		0	0	3	3	9	14	10	11	7	13	17
Grade	A	F	F	D	D	F	B+	C	D+	D	D	F	F		F	F	F	F	F	C-	F	F	F	D+	B+

(Deficiences Noted with shaded Box)	Building/Room Number	MCA - M180 (25)	MCA - M190 (10)	MCA - M192/M193 (10)	MCA - M204 (6)	MCA - M210 (9)	MCA - M256 (25)	MCA - M260 (15)	MCA - M270 (15)	MCA - M280 (15)		SAC - 2DST (20)	SAC - 3DST (20)	SAC- PHOT (10)		DOWDEN - 70 (12)	DOWDEN - 74 (24)	DOWDEN - 75 (18)	DOWDEN - 142 (16)	DOWDEN - 146 (12)	DOWDEN - 162 (15)	DOWDEN - 164 (16)	DOWDEN - 175 (30)	DOWDEN - 177 (15)	DOWDEN - 242 (16)	DOWDEN - 246 (24)	
Assessment Criteria																											
Adequate Room Size for Enrollment																											
Appropriate Room Size/Shape																											
ADA Accessible																											
Accessible without Interrupting Other Classes																											
Appropriate Furniture and Equipment															NA												
Adequate Storage/Prep																					NA						
Appropriate Room Finishes																											
Adequate Acoustics																											
Reliable Wireless Access																											
Adequate Power																											
Adequate Technology																									NA	NA	
Sound System						NA						NA	NA	NA					NA	NA	NA	NA			NA	NA	
Natural Light			NA	NA		NA	NA								NA		NA			NA	NA	NA	NA			
Adequate Sun/Glare Control		NA	NA	NA		NA	NA								NA		NA			NA	NA	NA	NA			
Variable Lighting Control			NA	NA			NA																				
Quiet Lighting System																											
Reliable Temperature Control																											
Quiet Mechanical System																											
Room to Room Noise Seperation																											
Score (out of 19 total points)		13	12	11	13	11	7	12	10	10		10	9	11		14	15	8	14	15	12	13	10	10	14	14	
Grade		D+	D	F	D+	F	F	D	F	F		F	F	F		C	C+	F	C	C+	D	D+	C	F	C	C	

(Deficiences Noted with shaded Box)	Building/Room Number	DOWDEN - 251 (6)	DOWDEN - 262 (24)	DOWDEN - 266 (24)	DOWDEN - 275 (12)	DOWDEN - 288 (8)	DOWDEN - 290 (8)	DOWDEN - 340 (8)	DOWDEN - 342 (12)	DOWDEN - 346 (16)	DOWDEN - 362 (24)	DOWDEN - 366 (24)	DOWDEN - 377 (16)	DOWDEN - 388 (8)	DOWDEN - 390 (8)	DOWDEN - 392 (22)		PLEX - EXER 25 (200)	PLEX - FLD1 (200)	PLEX - FLD2 (200)	PLEX - FLD3 (200)	PLEX - INTR (B-BALL COURT) (15)	PLEX - PHYS (CARDIO) (25)	PLEX - WEIGHT RM - RM 150 (25)	PLEX - RACQUET COURT RM 151 (90)		
Assessment Criteria																											
Adequate Room Size for Enrollment					■																						
Appropriate Room Size/Shape																											
ADA Accessible		■	■	■	■	■	■	■	■	■	■	■	■	■								■	■				
Accessible without Interrupting Other Classes																						■	■				
Appropriate Furniture and Equipment					■																	NA	NA				
Adequate Storage/Prep																						NA	NA				
Appropriate Room Finishes																											
Adequate Acoustics																		■	■	■		■					
Reliable Wireless Access																											
Adequate Power																											
Adequate Technology		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
Sound System		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA													
Natural Light		NA			NA													NA	NA	NA							
Adequate Sun/Glare Control		NA			NA													NA	NA	NA			■				
Variable Lighting Control		■																■	■	■							
Quiet Lighting System																		■	■	■			■				
Reliable Temperature Control		■	■	■						■	■	■	■	■									■				
Quiet Mechanical System		■	■	■	■	■	■	■	■	■	■	■	■	■	■												
Room to Room Noise Seperation			■	■	■	■								■	■							■	■				
Score (out of 19 total points)		11	13	13	10	14	15	15	15	14	14	14	14	13	17	19		14	14	14	19	13	11	19	19		
Grade		F	D+	D+	F	C	C+	C+	C+	C	C	C	C	D+	B+	A		C	C	C	A	D+	F	A	A		

(Deficiences Noted with shaded Box)	PLEX - TENNIS (EXTERIOR)	PLEX - EXER AEROBIC RM 115																								Score (Out of 71)	Grade
Assessment Criteria																											
Adequate Room Size for Enrollment																										51	B-
Appropriate Room Size/Shape																										51	B-
ADA Accessible																										43	C-
Accessible without Interrupting Other Classes																										58	A
Appropriate Furniture and Equipment																										55	A-
Adequate Storage/Prep																										40	D
Appropriate Room Finishes																										60	A
Adequate Acoustics																										46	C
Reliable Wireless Access																										52	B
Adequate Power																										52	B
Adequate Technology																										39	D
Sound System																										48	C+
Natural Light	NA																									43	C
Adequate Sun/Glare Control	NA																									30	F
Variable Lighting Control																										35	F
Quiet Lighting System																										60	A
Reliable Temperature Control																										44	C+
Quiet Mechanical System																										32	F
Room to Room Noise Seperation																										40	D
Score (out of 19 total points)	14	17																									
Grade	C	B+																									

Appendix C

Primary Engineering, Inc
2826 Lake Ave.
Fort Wayne, Indiana 46805

(260) 424-0444 phone
info@primary-eng.com

September 25, 2014

Re: Huntington University

Phil Howard
Interdesign
141 E Ohio St.
Indianapolis, IN 46204

Dear Phil,

Pursuant to your request, I was able to review our notes from our visit to Huntington University on September 20, 2014 and offer the following notes with regard to the facilities that we were able to review together;

Loew-Brenn Hall
It is reported that the Loew portion of this building has poor indoor air quality and lack of space temperature control with many staff and students not wanting classes in this building. Review of the building systems reveals that each floor is served by a constant volume air handler that feeds all rooms on the floor. Each room is provided with a reheat coil that allow room to increase the supply temperature in if hot water is available. The controls on each of these coils and air handlers are pneumatic controls that appear to be approximately 30 years old and verily likely have failed leaving the control valves ineffective at controlling the space needs.

Recommendations for this building:

- Improve the space comfort and controllability to the building. By replacing the reheat coils for each space with new variable air volume (VAV) boxes with reheat, adding digital controls, adding a variable speed drive to each air handler, and upgrading controls at the air handler, the existing duct and air handler will be more able to meet the needs of each space.
    - Budgetary cost for this upgrade: $55,000 - $70,000 per floor. This upgrade would provide immediate results in improving space comfort.
    - Recommended timeframe: Within the next 2 years.

- Replace the air handlers on each floor as the existing equipment is approximately 30 years old and has exceeded the median service life for air handlers. ASHRAE tracks equipment life with factors that consider useful service life with respect to physical failure, loss of efficiency, inability to obtain repair parts, and general obsolescence.
    - Budgetary cost for this replacement: $50,000 - $70,000 per air handler.
    - Recommended timeframe: [illegible]

- Replace the pneumatic controls throughout this facility with new digital controls to provide better control of spaces, reduce annual service costs to pneumatic devices, and improvement management and scheduling for energy management.
    - Budgetary cost for this upgrade: $200,000 - $275,000

Recommended timeframe: Within next 10 years.

Merillat Center for the Arts

The existing chilled water plant was installed in approximately 1990 and consists of (2) 120 ton York chillers with remote air cooled condensers. Of the two units, one unit has had both compressors fail and have been repaired. The other unit has had one compressor failure and is not functioning. The age of this unit and the fact that it uses R-22 as the operating refrigerant are key factors that will require their replacement. R-22 is no longer manufactured and the market to purchase it dictates very high prices for small quantities of it due to scarcity of the material. The median useful service life for an air cooled chiller is 25-30 years and these units are at this point. The fact that one chiller is no longer functional is of critical concern as the remaining unit is reported to barely maintain the space under light occupancy, however under heavy event loading is known to fall short.

Recommendations for this building:

- Replace (1) chiller immediately to provide added cooling capacity and prevent complete failure of the cooling plant from serving the building. Failure of the remaining chiller at this point would leave the building with no means to cool the building. As part of this replacement, the chiller equipment room must be brought up to meet current code for refrigeration safety by including a new refrigerant leak detection monitor and controls to ventilate this room in the event of a leak.
    - Budgetary cost for this replacement: $200,000 - $250,000
    - Recommended timeframe: Immediately.

- Replace (1) remaining chiller to provide resiliency to the plant to meet design occupant loads.
    - Budgetary cost for this replacement: $175,000 - $200,000.
    - Recommended timeframe:

- Replace the pneumatic controls throughout this facility with new digital controls to provide better control of spaces, reduce annual service costs to pneumatic devices, and improvement management and scheduling for energy management.
    - Budgetary cost for this upgrade: $225,000 - $300,000
    - Recommended timeframe: Within next 10 years.

Halbecker Dining Commons

The building HVAC system consists of group coupled heat pumps installed in 1991 with a series of pond coils for the heat pump source. The expected life for a water source heat pump is approximately 25 years before the maintenance costs get a point of being most cost effective to replace entire units. The units are nearing this point and likely will need to be replaced, if not already done. The geothermal loops in the pond should remain viable for at least 50 years as long as the coils do not incur physical damage. One issue that may need to be reviewed is if the coils are buried in silt as this will affect the cooling performance by insulating them and inhibiting heat rejection.

Recommendations for this building:

- Replace all original heat pumps in the building with new extended range units with modern options that include ECM supply fan motors and capacitor start compressors to reduce electrical inrush current. The replacements will prevent costly maintenance repairs and provide some efficiency gains as heat pump technology has improved dramatically in the last 25 years.

- Budgetary cost for this replacement: $5,000 - $6,000 per unit, (30 units equates to $150,000 - $180,000).
- Recommended timeframe: Start now.

Huntington Union Building (HUB)

This building was constructed in approximately 1960 and is in need of HVAC renovations. The boiler plant has recently been replaced with new modular boilers however the air handlers in this building are original and appear to be in very poor condition. It is understood that this building has a planned renovation and at that time it makes sense to gut the HVAC systems and provide new air-side equipment. The options for what type of equipment are open to consider that a traditional boiler-chiller plant with air handlers can be used, however proximity to the campus pond allows for other options to consider. Water source heat pumps similar to the dining commons could be used as well as more advanced systems such as a geothermal heat recovery chiller the produces hot water and chilled water but uses a large modular heat pump coupled with the pond loop to do so. (We have recently assisted Indiana Tech with a similar system in their new academic center building.)

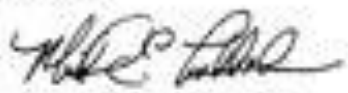
Recommendations for this building:

- Replace the HVAC system for this building with a new system. This should include new piping, ducts, and airside equipment. The boiler plant is new and should be retained if possible. It is assumed that this work
  - Budgetary estimate for this work: $25/sf ($650,000 - $750,000).
  - Recommended timeframe: Next 5 years.

- Replace the cooling plant with a either a new air cooled chiller or consider the use of a heat recovery chiller such as a Multistack VME II that can use a pond loop and run as a large heat pump.
  - Budgetary estimate for this work: $250,000 - $300,000.
  - Recommended timeframe: Next 5 years.

The budget costs listed above are based on current day dollar values and escalation is not included for the sake of simplicity in this preliminary discussion. Once it is determined that a specific improvement is to be implemented, at that time a more detailed cost estimate is warranted to evaluate the possible consequential work that will be required once it is possible to investigate the existing conditions in more detail.

Sincerely,



Michael E. Lubbehusen, PE
Mechanical Engineer

Appendix D

CE Solutions, Inc.
Structural Engineers

January 18, 2011

Mr. Jerry Cripps, R.A.
InterDesign
141 East Ohio Street
Indianapolis, IN 46204

Re: Structural Condition Assessment – Visual
Indoor Pool Structure - Merillat Physical Education & Recreation Complex
Huntington University
Huntington, IN

CES Project No: 10-147

Dear Jerry,

We have completed our structural condition assessment of the captioned indoor pool structure. An inspection of the building's primary structural framing system and accessible roof purlins was performed by the undersigned on December 22, 2010 at the request of Jerry Cripps to determine if the indoor pool structure is salvageable or if the deterioration has progressed to a level that warrants total building replacement.

Jerry Gressley, Director of Physical Plant & Maintenance for Huntington University, was present during the initial stage of our inspection.

The indoor pool structure was unoccupied and the pool was drained at the time of our inspection. Selected ceiling panels were removed by Fetters Construction prior to our arrival to facilitate inspection of hidden structural elements. Our condition assessment was restricted to accessible areas of the building and was based solely on visual observations and selective hammer soundings using a conventional 20 ounce bricklayers grip and a rotary percussion device (steel delamination testing tool). Roof framing access was provided by scaffolding supplied by Fetters Construction. No destructive investigation (invasive excavation), structural analysis, instrumentation, monitoring, testing or evaluation of the building's original structural design was performed.

Construction documents for the original indoor pool structure are available and were provided for our review by InterDesign. The dimensions, member sizes and structural data contained in our report were obtained from the original construction documents and verified by field measurements and observations made during our site visit.

Photographs taken by the undersigned during our inspection are included at the end of this report. The following is a summary of our findings and recommendations:

EXISTING CONDITIONS AND OBSERVATIONS

The indoor pool structure was constructed in 1973 and its occupancy is currently restricted to authorized personnel only. It is a nominal 70'-0" wide by 120'-0" long one-story pre-engineered metal building with a small partial basement (pool equipment room) located in the northwest corner of the building.

The primary structural framing system consists of tapered structural steel columns and girders rigidly connected to form single (clear) span gabled rigid portal frame bents spaced 20'-0" on center providing lateral stability in the east – west direction. The frames at the north and south column lines consist of 5 load bearing structural steel wide flanged wind columns supporting sloping (gabled) roof beams. The gabled roof pitch is 4:12. The lateral load resisting system in the north – south direction consists of diagonal steel round rod cross bracing in two bays along the east column line and a single flat rigid structural steel portal frame along the west column line.

The roof framing consists of light gage metal roof deck spanning between 8-1/2 inch deep cold-formed steel "zee" purlins spaced at 5'-0" on center spanning 20'-0" between the gabled rigid portal frame bents. A light gage metal ceiling panel system is attached to the underside of the roof purlins.

The north, south and east exterior walls consist of 8 inch concrete masonry units with exterior brick veneer to an elevation approximately 10'-2" above the finished floor. The west interior demising wall consists of 6 inch concrete masonry units to an elevation approximately 10'-2" above the finished floor. Above 10'-2" the walls consist of horizontal cold-formed steel "zee" girts spanning between the building columns and clad with light gage metal siding.

The minimum vertical clearance inside the indoor pool structure is approximately 21'-6" where the tapered columns and girders intersect.

The pool deck consists of a 4 inch concrete slab-on-grade that slopes toward the perimeter pool gutters and is surfaced with a rubberized coating.

The existing steel roof purlins were found to be moderately to severely corroded throughout the roof area. In some locations significant section loss was observed.

The top flanges of the tapered steel girders were found to be in generally good condition with only minor surface rust evident. Localized moderate corrosion was observed at several tapered steel columns and at the north wall wind columns. Essentially all of the column bases were found to be moderately to severely corroded.

The flat rigid structural steel portal frame along the west column line was found to be in marginal condition with localized severe corrosion evident at the column to girder connection and at the column bases. Significant section loss was observed at one of the column bases.

Corrosion of the tapered and wide flanged steel columns was observed to be more advanced at the north end of the pool where the diving boards are located.

OPINION AND RECOMMENDATIONS

The process for identifying the proper solution to damaged or deteriorated structures, or for correcting design or construction deficiencies, is to first determine the cause of the damage, deterioration or deficiency. Next, owner requirements such as expected service life, appearance, structure utilization needs during rehabilitation and budget need to be understood. In-service conditions such as superimposed loading, weather factors, chemical environment, etc. also must be assessed to properly identify the physical and mechanical properties needed. Finally, application conditions such as expected weather conditions, access, project time frame and operating conditions which may critically affect repair / strengthening material selection must be known.

Only after the above project objectives have been established, can an effective rehabilitation strategy be fully developed.

It appears there are possibly two different causes for the observed steel corrosion: the relative humidity likely present when the indoor pool was in use producing chlorinated condensation on the steel and the direct exposure to the chlorinated swimming pool water displaced during in-pool activity.

The dew point is essentially a saturation temperature where cooled water vapor condenses into water. It appears when the pool was in use and during certain times of the year, that the dew point may have occurred within the cavity between the insulated outer metal roof deck and the metal ceiling, exposing the steel roof purlins to prolonged condensation that may also have been contaminated with chlorine.

While the rigid structural steel portal frame bents appear to be in generally good condition with only localized areas of moderate to severe corrosion that warrant repair, we feel they are salvageable. Therefore, we recommend all corrosion be carefully and thoroughly removed, all moderately to severely corroded areas be repaired / strengthened with new steel plate and the surface of all structural steel elements then be properly prepared and coated with a high-performance coating appropriate for the intended building occupancy. In addition, after all column bases are treated as described above, we recommend they be encased in reinforced concrete to further strengthen and protect them and their connection to their foundations.

The cold-formed steel "zee" purlins, on the contrary, are in generally poor condition with localized areas of severe corrosion that warrants total replacement. Therefore we recommend the existing steel roof purlins, insulation and deck be removed and replaced with a new system (appropriate for the intended building occupancy) that effectively prevents the dew point, in the future, from occurring within the ceiling cavity.

Until these repairs can be made we recommend the indoor pool structure remain unoccupied and locked at all times. We also recommend access to the roof be prohibited as well. The steel roof purlin corrosion is advanced enough that a partial roof collapse could occur suddenly and without warning.

In closing, please note that our structural condition assessment of the indoor pool structure was limited strictly to those items identified in this report and to the extent noted. Should unforeseen deficiencies exist (structural or non-structural); they are beyond the scope of this structural condition assessment. Should you have any questions or wish to discuss this matter further, please do not hesitate to contact the undersigned.

Very truly yours,

Steven P. Osborn, P.E., S.E.
Principal / President

ces report 10-147.spo.docx

Corroded Steel Roof Purlin

Corroded Steel Roof Purlin


Corroded Steel Roof Purlin


Corroded Steel Roof Purlin


Corroded Steel Roof Purlin (beyond)


Top Surface of Gabled Portal Frame Girder


Corroded Flat Portal Frame Girder (west col line)


Corroded Flat Portal Frame Girder (west col line)

Corroded North Load Bearing
Wide Flanged Wind Column

Corroded Gabled Portal Frame Column

Corroded Gabled Portal Frame Column

Corroded Gabled Portal Frame Column

Corroded Gabled Portal Frame Column Base

Corroded Flat Portal Frame Column Base

APPENDIX 4

2015 Facilities Master Plan

Huntington University
Huntington, Indiana

General Classroom Utilization Analysis

July 22, 2015

INTERDESIGN
TOTAL ARCHITECTURAL DEVELOPMENT

Classroom Utilization

The need for classroom space is a function of both enrollment and the master schedule. The *General Classroom Utilization Data* included in the report summarizes the utilization of general purpose classrooms based on the Fall 2014 master schedule. Fall semester data is preferred because it reflects a higher percentage of scheduled classroom hours compared to the Spring semester. This analysis excludes special-use classrooms such as computer, science, art, and music labs.

Classroom utilization is defined as the percent of time a room is scheduled – a comparison of the actual number of class hours that a given room is scheduled with the total number of hours the room is assumed to be available. Our analysis is based on a Monday through Friday, 8:00AM to 4:00PM class schedule. InterDesign recommends a general classroom maximum utilization benchmark of 65 percent for private colleges and universities with an undergraduate FTE under 3,000. In keeping with this benchmark, Huntington's general purpose classrooms would be considered to be at maximum utilization when 65 percent or more of the available class hours are scheduled. The balance of hours above 65 percent provide for flexibility to allow all the necessary classes to be offered and to permit students to schedule classes in the proper sequence.

Based on the utilization data, 16 percent of available daytime class hours are scheduled and 4 percent of available evening class hours are scheduled. Classrooms in Loew-Brenn, Merillat Performing Arts Complex, and Dowden Science Hall experience the most scheduling pressure, while those in Becker, United Brethren HQ, Miller Residence Hall and Meadows Residence Halls experience the least pressure. Monday is the busiest day for classes and, not surprisingly, Friday is the least utilized. Based on its current undergraduate FTE enrollment of 917, the college appears to have plenty of classroom space to support future growth, however, the data clearly indicates that classrooms with occupancies between 30 and 50 are in high demand. Loew-Brenn 51 and 116, and Dowden 121 and 226 have occupancies from 36 to 50 and have 40 percent of their available class hours scheduled. This suggests there is a need for additional classrooms in this capacity range. Increasing the utilization of other similar sized classrooms, such as Dowden 122 and Loew-Brenn 165, and PLEX P125, will help take the pressure off of these over-scheduled classrooms. The utilization of classroom needs improvement to better make efficient use of university capital expenditures.

It should be noted, however, that increased utilization might depend upon improving the appeal and function of these classrooms through improved furniture, finishes, technology, etc. as noted in the

assessment report. It should also be noted that Becker Hall's average weekly utilization is only 2.6 percent, and no classes were scheduled on Tuesdays and Fridays; it is not the best use of campus resources. With minimal improvements noted in the assessment report, the classrooms at Miller and Meadows Hall could be used as a resource for scheduling smaller class sizes. The high capacity lecture halls 051 and 055 in Loew-Brenn, Merillat Arts M150, and Dowden 225 all experience high utilization including evening classes. The university is encouraged to consider adding up to two additional high capacity classrooms of 50+ seats to help manage current and future demand.

To help determine the recommended number of general purpose classrooms based on the FTE on-campus undergraduate day student enrollment, we recommend the following rules-of-thumb: FTE/60 = minimum number of classrooms; FTE/40 = recommended number of classrooms. The Fall 2014 on-campus FTE of 917/60 = 16 minimum classrooms. The Fall 2014 on-campus FTE of 917/40 = 23 recommended classrooms. Based on these calculations, the 39 existing general purpose classrooms appear to provide more than enough space for the current enrollment, but as discussed earlier, the quality, location and capacity of existing classrooms does present challenges. Let's consider enrollment growth to 1,200 FTE; which would be 5% of growth each year for the next 10 years. The projected FTE of 1,200/60 = 20 minimum classrooms. The projected FTE of 1,200/40 = 30 recommended classrooms. According to this calculation, the university has enough space to grow the student population without adding new construction. However, improvements noted in the assessment report should be implemented as resources allow to help facilitate this growth.

Huntington University General Classroom Utilization Analysis Summary

Existing Baseline Information

- Number of General Purpose Classrooms 39
- Total Student Capacity of Classrooms 1211 students
- Hours per Week Available for Classes 35 + 15 Evenings

Class Schedule: Days: 8:00 AM to 4:00 PM MTWThF (excluding the 10:00 AM hour on Tuesday and Thursday along with 11:00 AM Hour Friday reserved for Chapel/Convocation)
Evening: 6:00 PM to 9:00 PM MTWThF

Observations

Room Utilization:

- Room Utilization varies significantly among buildings.

Admin Annex	35%	(1 room)
Becker Hall	0%	(0 rooms)
Loew-Brenn Hall	38.02%	(11 room)
Merillat Centre for the Arts	18.75%	(2 rooms)
Merillat Complex (PLEX)	30.00%	(2 rooms)
Dowden Science Hall	35.93%	(12 rooms)
United Brethern HQ Bldg	5.83%	(3 rooms)
Miller Residence Hall	0%	(1 room)
Meadows Residence Hall	0%	(2 rooms)

- Of the 39 available general purpose classrooms, **0** have a utilization factor above the 65% benchmark.

- Of the 39 available general purpose classrooms, **5** have a utilization factor between 50 and 65%.

- Of the 39 available general purpose classrooms, **11** have a utilization factor between 50 and 35%.

- Some rooms are poorly utilized for classes. Of the 39 available general purpose classrooms, **16** have a utilization factor below 35%.

- Of these 39, **7** have a utilization factor below 10%.

Loew-Brenn Hall	Room 53, 65, 210
Dowden Science Hall	Rooms 126
United Brethern HQ Bldg	Rooms CLS1 and CLS2
Miller/Meadows Residence	Room 022

GENERAL CLASSROOM UTILIZATION SUMMARY (FALL 2014)

DAY CLASSES - M-F - 8 A.M. TO 4:00 PM

BUILDING	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	AVERAGE
ADMIN ANNEX	37.5	68.8	25.0	31.3	12.5	35.00
BECKER HALL	0.0	0.0	0.0	0.0	0.0	0.00
LOEW-BRENN HALL	42.5	23.4	39.1	42.5	42.5	38.02
MERILATT CENTER FOR THE ARTS	31.3	25.0	18.8	12.5	6.3	18.75
MERILLAT COMPLEX	56.3	12.5	37.5	18.8	25.0	30.00
DOWDEN SCIENCE HALL	43.2	31.6	39.8	27.6	37.5	35.93
UNITED BRETHREN HQ BLDG	0.0	0.0	4.2	12.5	12.5	5.83
MILLER RESIDENCE HALL	0.0	0.0	0.0	0.0	0.0	0.0
MEADOWS RESIDENCE HALL	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE	21.07	16.13	16.43	14.51	13.63	16.35

EVENING CLASSES - M-F - 6 P.M. TO 9:00 PM

BUILDING	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	AVERAGE
ADMIN ANNEX	100.0	0.0	0.0	0.0	0.0	20.00
BECKER HALL	0.0	0.0	0.0	0.0	0.0	0.00
LOEW-BRENN HALL	13.9	16.2	3.2	13.9	13.9	12.22
MERILATT CENTER FOR THE ARTS	0.0	0.0	0.0	0.0	0.0	0.00
MERILLAT COMPLEX	0.0	0.0	0.0	0.0	0.0	0.00
DOWDEN SCIENCE HALL	15.9	3.8	8.3	15.9	0.0	8.79
UNITED BRETHREN HQ BLDG	0.0	0.0	0.0	0.0	0.0	0.00
MILLER RESIDENCE HALL	0.0	0.0	0.0	0.0	0.0	0.0
MEADOWS RESIDENCE HALL	0.0	0.0	0.0	0.0	0.0	0.0
AVERAGE	12.98	2.00	1.16	2.98	1.39	4.10

Classroom are considered to be at maxiumum utlization when 65% of the available class hours are scheduled.

WEEKLY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	CLASSROOM 8a to 4 p DAY OF WEEK MON.	TUES.	WED.	THUR.	FRI.	WK AVERAGE
ADMIN. ANNEX							
CLS1	36	37.5	68.8	25.0	31.3	12.5	35.0
BECKER HALL							
Special Use Rooms							
LOEW-BRENN HALL							
16	40	25.0	0.0	25.0	0.0	25.0	15.0
51	50	87.5	65.6	62.5	40.6	62.5	63.8
53	16	0.0	0.0	0.0	0.0	0.0	0.0
55	45	75.0	12.5	62.5	12.5	62.5	45.0
65	15	12.5	0.0	12.5	0.0	12.5	7.5
108	48	40.6	31.3	40.6	31.3	25.0	33.8
116	48	50.0	62.5	50.0	62.5	50.0	55.0
122	36	75.0	0.0	75.0	0.0	75.0	45.0
132	30	50.0	15.6	50.0	15.6	50.0	36.3
153	32	37.5	46.9	37.5	62.5	25.0	41.9
155	24	50.0	31.3	37.5	31.3	37.5	37.5
159	18	25.0	28.1	25.0	28.1	25.0	26.3
165	44	62.5	0.0	62.5	0.0	62.5	37.5
204	30	62.5	12.5	62.5	12.5	62.5	42.5
208	24	50.0	43.8	50.0	43.8	37.5	45.0
210	8	0.0	12.5	0.0	12.5	18.8	8.8
251	24	37.5	28.1	25.0	40.6	25.0	31.3
275	17	25.0	31.3	25.0	31.3	25.0	27.5
MERILLAT CENTER FOR THE ARTS							
M150	60	50.0	37.5	25.0	12.5	0.0	25.0
M140	35	12.5	12.5	12.5	12.5	12.5	12.5
MERILLAT COMPLEX							
P215	45	87.5	25.0	50.0	37.5	25.0	45.0
P245	35	25.0	0.0	25.0	0.0	25.0	15.0
DOWDEN SCIENCE HALL							
54	24	37.5	50.0	37.5	12.5	37.5	35.0
121	30	75.0	50.0	75.0	37.5	62.5	60.0
122	30	75.0	15.6	62.5	15.6	62.5	46.3
124	24	25.0	37.5	37.5	37.5	12.5	30.0
125	56	25.0	40.6	12.5	28.1	25.0	26.3
126	16	12.5	0.0	12.5	0.0	12.5	7.5
150	15	25.0	31.3	12.5	37.5	25.0	26.3
224	40	50.0	59.4	50.0	59.4	37.5	51.3
225	80	50.0	16.3	50.0	16.3	50.0	36.5
226	40	62.5	46.9	62.5	59.4	62.5	58.8

ROOM NO.	CAPACITY	CLASSROOM 6p TO 9:00p DAY OF WEEK MON.	TUES.	WED.	THUR.	FRI.	WK AVERAGE
ADMIN. ANNEX							
CLS1	36	0.0	100.0	0.0	0.0	0.0	20.0
BECKER HALL							
Special Use Rooms							
LOEW-BRENN HALL							
16	40	0.0	0.0	0.0	0.0	0.0	0.0
51	50	0.0	0.0	0.0	0.0	0.0	0.0
53	16	0.0	0.0	0.0	0.0	0.0	0.0
55	45	0.0	0.0	0.0	0.0	0.0	0.0
65	15	0.0	0.0	0.0	0.0	0.0	0.0
108	48	0.0	0.0	0.0	0.0	0.0	0.0
116	48	0.0	0.0	0.0	0.0	0.0	0.0
122	36	0.0	91.7	0.0	0.0	0.0	18.3
132	30	0.0	0.0	0.0	0.0	0.0	0.0
153	32	0.0	50.0	0.0	0.0	0.0	10.0
155	24	58.3	100.0	58.3	50.0	0.0	53.3
159	18	91.7	0.0	0.0	58.3	0.0	30.0
165	44	0.0	0.0	0.0	0.0	0.0	0.0
204	30	100.0	0.0	0.0	100.0	0.0	40.0
208	24	0.0	50.0	0.0	25.0	0.0	15.0
210	8	0.0	0.0	0.0	0.0	0.0	0.0
251	24	0.0	0.0	0.0	0.0	0.0	0.0
275	17	0.0	0.0	0.0	0.0	0.0	0.0
MERILLAT CENTER FOR THE ARTS							
M150	60	0.0	0.0	0.0	0.0	0.0	0.0
M140	35	0.0	0.0	0.0	0.0	0.0	0.0
MERILLAT COMPLEX							
P215	45	0.0	0.0	0.0	0.0	0.0	0.0
P245	35	0.0	0.0	0.0	0.0	0.0	0.0
DOWDEN SCIENCE HALL							
54	24	0.0	0.0	0.0	0.0	0.0	0.0
121	30	33.3	0.0	0.0	0.0	0.0	6.7
122	30	0.0	0.0	0.0	100.0	0.0	20.0
124	24	0.0	41.7	0.0	41.7	0.0	16.7
125	56	0.0	0.0	0.0	0.0	0.0	0.0
126	16	50.0	0.0	50.0	0.0	0.0	20.0
150	15	50.0	0.0	0.0	0.0	0.0	10.0
224	40	0.0	0.0	0.0	0.0	0.0	0.0
225	80	41.7	0.0	41.7	0.0	0.0	16.7
226	40	0.0	0.0	0.0	0.0	0.0	0.0

250	15	37.5	0.0	25.0	0.0	25.0	17.5
UNITED BRETHREN HQ BUILDING							
CLS1	25	0.0	0.0	0.0	37.5	37.5	15.0
CLS2	15	0.0	0.0	0.0	0.0	0.0	0.0
CONF	6	0.0	0.0	12.5	0.0	0.0	2.5
MILLER RESIDENCE HALL							
22	25	0.0	0.0	0.0	0.0	0.0	0.0
MEADOWS RESIDENCE HALL							
14	25	0.0	0.0	0.0	0.0	0.0	0.0
22	25	0.0	0.0	0.0	0.0	0.0	0.0

250	15	0.0	0.0	0.0	33.3	0.0	6.7
UNITED BRETHREN HQ BUILDING							
CLS1	25	0.0	0.0	0.0	0.0	0.0	0.0
CLS2	15	0.0	0.0	25.0	0.0	0.0	5.0
CONF	6	0.0	0.0	0.0	0.0	0.0	0.0
MILLER RESIDENCE HALL							
22	25	0.0	0.0	0.0	0.0	0.0	0.0
MEADOWS RESIDENCE HALL							
14	25	0.0	0.0	0.0	0.0	0.0	0.0
22	25	0.0	0.0	0.0	0.0	0.0	0.0

Classroom are considered to be at maxiumum utlization when 65% of the available class hours are scheduled.

MONDAY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL.	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
ADMIN ANNEX					(ANNX)												
% UTIL		**37.5**		0	100	100	0	0	0	100	0	100	25	**100.0**	100	100	100
CLS1	36	37.5			100	100				100		100	25	100.0	100	100	100
BECKER HALL					(BECK)												
% UTIL		**0.0**												**0.0**			
Special Use Rooms																	
LOEW-BRENN HALL							(LBH)										
% UTIL		**42.5**		31	60	50	28	11	61	61	39	1	0	**13.9**	17	15	10
16	40	25.0			100					100				0.0			
51	50	87.5			100	100	100	100	100	100	100			0.0			
53	16	0.0												0.0			
55	45	75.0			100	100	100		100	100	100			0.0			
65	15	12.5				100								0.0			
108	48	40.6		50	75	100			100					0.0			
116	48	50.0		100	100	100			100					0.0			
122	36	75.0		100	100	100			100	100	100			0.0			
132	30	50.0			100				100	100	100			0.0			
153	32	37.5							100	100	100	25		0.0			
155	24	50.0		100	100	100	100							58.3	100	75	
159	18	25.0		100		100								91.7	100	100	75
165	44	62.5			100	100			100	100	100			0.0			
204	30	62.5			100			100	100	100	100			100.0	100	100	100
208	24	50.0			100		100		100	100				0.0			
210	8	0.0												0.0			
251	24	37.5					100		100	100				0.0			
275	17	25.0		100						100				0.0			
MERILLAT CENTER FOR THE ARTS											(MCA)						
% UTIL		**31.3**		0	50	50	50	50	0	0	50	50	0	**0.0**	0.0	0.0	0.0
M150	60	50.0				100	100	100			100	100		0.0			
M140	125	12.5			100									0.0			

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
MERILLAT COMPLEX							(PLEX)										
% UTIL		**56.3**		50	50	100	50	0	100	50	50	50	50	**0.0**	0	0	0
P215	45	87.5		100	100	100	100		100	100	100	100	100	0.0			
P245	35	25.0				100			100					0.0			
DOWDEN SCIENCE HALL								(SCIE)									
% UTIL		**43.2**		36	73	55	36	18	55	45	27	0	25	**15.9**	27	16	5
54	24	37.5			100	100	100							0.0			
121	30	75.0		100	100	100		100	100	100			75	33.3	100		
122	30	75.0		100	100	100	100		100	100				0.0			
124	24	25.0					100		100					0.0			
125	56	25.0			100					100				0.0			
126	16	12.5			100								100	50.0	100	50	
150	15	25.0			100		100						100	50.0	100	50	
224	40	50.0		100		100			100	100				0.0			
225	80	50.0		100	100				100		100			41.7		75	50
226	40	62.5			100	100			100	100	100			0.0			
250	15	37.5				100		100			100			0.0			
UNITED BRETHERN HQ BUILDIN														(UBHQ)			
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
CLS1	25	0.0												0.0			
CLS2	15	0.0												0.0			
CONF	6	0.0												0.0			
MILLER RESIDENCE HALL												(MILLER)					
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
22	25	0.0												0.0			
MEADOWS RESIDENCE HALL												(MEADOWS)					
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
14	25	0.0												0.0			
22	25	0.0												0.0			

Classrooms are considered to be at maximum utilization when 65% of the available class hours are scheduled. Shaded columns indicate scheduled chapel or faculty meeting time.

TUESDAY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL.	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
ADMIN ANNEX		(ANNX)															
% UTIL		**68.8**	50	75	0	100	25	100	100	100	0	0	**0.0**	0	0	0	
CLS1	36	68.8	50	75		100	25	100	100	100			0.0				
BECKER HALL		(BECK)															
% UTIL		**0.0**											**0.0**				
Special Use Rooms																	
LOEW-BRENN HALL		(LBH)															
% UTIL		**23.4**	14	21	0	61	22	14	39	17	19	14	**16.2**	22	17	10	
16	40	0.0											0.0				
51	50	65.6	50	75		100	100		100	100	75		0.0				
53	16	0.0											0.0				
55	45	12.5				100							0.0				
65	15	0.0											0.0				
108	48	31.3				100	25		100	25	100	50	0.0				
116	48	62.5	50	75		100	75	75	100	25			0.0				
122	36	0.0											91.7	100	100	75	
132	30	15.6							100	25			0.0				
153	32	46.9	50	75		100	25		100	25	100	100	50.0	100	50		
155	24	31.3				100		100		50	75		100.0	100	100	100	50
159	18	28.1				100			100	25			0.0				
165	44	0.0											0.0				
204	30	12.5					100						0.0				
208	24	43.8	50	75		100			100	25		100	50.0	100	50		
210	8	12.5				100							0.0				
251	24	28.1	50	75		100							0.0				
275	17	31.3				100	75	75					0.0				
MERILAAT CENTER FOR THE ARTS										(MCA)							
% UTIL		**25.0**	0	0	0	50	50	50	50	0	0	0	**0.0**	0	0	0	
M150	60	37.5				100	100	100					0.0				
M140	125	12.5							100				0.0				

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
MERILLAT COMPLEX		(PLEX)															
% UTIL		**12.5**		50	0	0	50	0	0	0	0	0	0	**0.0**	0	0	0
P215	45	25.0		100			100							0.0			
P245	35	0.0												0.0			
DOWDEN SCIENCE HALL		(SCIE)															
% UTIL		**31.6**		100	100	50	50	0	50	50	0	0	0	**3.8**	0	0	0
54	24	50.0		100	100	100	100							0.0			
121	30	50.0		100	100				100	100				0.0			
122	30	15.6		50	75									0.0			
124	24	37.5			100		100				100			41.7	50	75	
125	56	40.6			100		100	25		100				0.0			
126	16	0.0												0.0			
150	15	31.3					100			50	100	100		0.0			
224	40	59.4		100			100	75	75	100	25			0.0			
225	80	16.3					100	30						0.0			
226	40	46.9		50	75		100	75	75					0.0			
250	15	0.0												0.0			
UNITED BRETHERN HQ BUILDING											(UBHQ)						
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
CLS1	25	0.0												0.0			
CLS2	15	0.0												0.0			
CONF	6	0.0												0.0			
MILLER RESIDENCE HALL											(MILLER)						
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
22	25	0.0												0.0			
MEADOWS RESIDENCE HALL											(MEADOWS)						
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
14	25	0.0												0.0			
22	25	0.0												0.0			

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WEDNESDAY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL.	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
ADMIN ANNEX			(ANNX)														
% UTIL		**25.0**		0	100	0	0	0	0	100	0	100	25	**0.0**	0	0	0
CLS1	36	25.0			100					100		100	25	0.0			
BECKER HALL			(BECK)														
% UTIL		**0.0**												**0.0**			
Special Use Rooms																	
LOEW-BRENN HALL			(LBH)														
% UTIL		**39.1**		31	60	50	0	11	61	61	39	1	0	**3.2**	6	4	0
16	40	25.0			100					100				0.0			
51	50	62.5			100	100			100	100	100			0.0			
53	16	0.0												0.0			
55	45	62.5			100	100			100	100	100			0.0			
65	15	12.5				100								0.0			
108	48	40.6		50	75	100			100					0.0			
116	48	50.0		100	100	100			100					0.0			
122	36	75.0		100	100	100			100	100	100			0.0			
132	30	50.0			100				100	100	100			0.0			
153	32	37.5							100	100	100	25		0.0			
155	24	37.5		100	100	100								58.3	100	75	
159	18	25.0		100		100								0.0			
165	44	62.5			100	100			100	100	100			0.0			
204	30	62.5			100			100	100	100	100			0.0			
208	24	50.0			100			100	100	100				0.0			
210	8	0.0												0.0			
251	24	25.0							100	100				0.0			
275	17	25.0		100						100				0.0			
MERILAAT CENTER FOR THE ARTS			(MCA)														
% UTIL		**18.8**		0	50	50	0	0	0	0	50	50	50	**0.0**	0	0	0
M150	60	25.0				100					100	100	100	0.0			
M140	125	12.5			100									0.0			

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
MERILLAT COMPLEX			(PLEX)														
% UTIL		**37.5**		0	50	100	0	0	100	50	0	0	0	**0.0**	0	0	0
P215	45	50.0			100	100			100	100				0.0			
P245	35	25.0				100			100					0.0			
DOWDEN SCIENCE HALL			(SCIE)														
% UTIL		**39.8**		45	73	45	0	27	45	45	36	0	0	**8.3**	9	11	5
54	24	37.5		100	100	100								0.0			
121	30	75.0		100	100	100		100	100	100				0.0			
122	30	62.5		100	100	100		100		100				0.0			
124	30	37.5			100				100		100			0.0			
125	56	12.5								100				0.0			
126	16	12.5			100									50.0	100	50	
150	15	12.5			100									0.0			
224	40	50.0		100		100			100	100				0.0			
225	80	50.0		100	100				100		100			41.7		75	50
226	40	62.5			100	100			100	100	100			0.0			
250	15	25.0						100			100			0.0			
UNITED BRETHERN HQ BUILDING											(UBHQ)						
% UTIL		**4.2**		0	0	0	0	0	17	17	0	0	0	**8.3**	17	8	0
CLS1	25	0.0												0.0			
CLS2	15	0.0												25.0	50	25	
CONF	6	12.5							50	50				0.0			
MILLER RESIDENCE HALL											(MILLER)						
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
22	25	0.0												0.0			
MEADOWS RESIDENCE HALL											(MEADOWS)						
% UTIL		**0.0**		0	0	0	0	0	0	0	0	0	0	**0.0**	0	0	0
14	25	0.0												0.0			
22	25	0.0												0.0			

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THURSDAY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL.	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
ADMIN ANNEX		(ANNX)															
% UTIL		31.3		50	75	0	100	25	0	0	0	0	0	0.0	0	0	0
CLS1	36	31.3		50	75		100	25						0.0			
BECKER HALL		(BECK)															
% UTIL		0.0												0.0			
Special Use Rooms																	
LOEW-BRENN HALL		((LBH)															
% UTIL		23.6		14	21	0	61	25	18	39	11	21	3	12.0	17	14	6
16	40	0.0												0.0			
51	50	40.6		50	75		100	100						0.0			
53	16	0.0												0.0			
55	45	12.5					100							0.0			
65	15	0.0												0.0			
108	48	31.3					100	25		100	25	100	25	0.0			
116	48	62.5		50	75		100	75	75	100	25			0.0			
122	36	0.0												0.0			
132	30	15.6								100	25			0.0			
153	32	62.5		50	75		100	75	75	100	25	100	25	0.0			
155	24	31.3					100		100		50	75		58.3	100	75	
159	18	28.1					100			100	25			58.3	100	75	
165	44	0.0												0.0			
204	30	12.5						100						100.0	100	100	100
208	24	43.8		50	75		100			100	25			0.0			
210	8	12.5					100							0.0			
251	24	40.6		50	75		100			100				0.0			
275	17	31.3					100	75	75			100		0.0			
MERILAAT CENTER FOR THE ARTS		(MCA)															
% UTIL		12.5		0	0	0	50	0	0	50	0	0	0	0.0	0	0	0
M150	60	12.5					100							0.0			
M140	125	12.5								100				0.0			

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
MERILLAT COMPLEX		(PLEX)															
% UTIL		18.8		50	0	0	50	0	50	0	0	0	0	0.0	0	0	0
P215	45	37.5		100			100		100					0.0			
P245	35	0.0												0.0			
DOWDEN SCIENCE HALL		(SCIE)															
% UTIL		27.6		27	41	0	55	28	32	18	20	0	0	15.9	18	20	9
54	24	12.5		100										0.0			
121	30	37.5		100					100	100				0.0			
122	30	15.6		50	75									100.0	100	100	100
124	30	37.5			100		100				100			41.7	50	75	
125	56	28.1			100		100	25						0.0			
126	16	0.0												0.0			
150	15	37.5					100	100	100					0.0			
224	40	59.4			100		100	75	75	100	25			0.0			
225	80	16.3					100	30						0.0			
226	40	59.4		50	75		100	75	75		100			0.0			
250	15	0.0												33.3	50	50	
UNITED BRETHERN HQ BUILDING		(UBHQ)															
% UTIL		12.5		0	33	33	33	0	0	0	0	0	0	0.0	0	0	0
CLS1	25	37.5			100	100	100							0.0			
CLS2	15	0.0												0.0			
CONF	6	0.0												0.0			
MILLER RESIDENCE HALL		(MILLER)															
% UTIL		0.0		0	0	0	0	0	0	0	0	0	0	0.0	0	0	0
22	25	0.0												0.0			
MEADOWS RESIDENCE HALL		(MEADOWS)															
% UTIL		0.0		0	0	0	0	0	0	0	0	0	0	0.0	0	0	0
14	25	0.0												0.0			
22	25	0.0												0.0			

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FRIDAY GENERAL CLASSROOM UTILIZATION (FALL 2014)

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL.	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	6	% UTIL.	EVENING 6 p to 9p 7	8	9
ADMIN ANNEX			(ANNX)														
% UTIL		12.5	0	0	0	0	0	0	100	0	0	0		0.0	0	0	0
CLS1	36	12.5							100					0.0			
BECKER HALL			(BECK)														
% UTIL		0.0												0.0			
Special Use Rooms																	
LOEW-BRENN HALL			(LBH)														
% UTIL		37.8	28	56	50	0	8	67	61	33	0	0		0.0	0	0	0
16	40	25.0		100					100					0.0			
51	50	62.5		100	100			100	100	100				0.0			
53	16	0.0												0.0			
55	45	62.5		100	100			100	100	100				0.0			
65	15	12.5			100									0.0			
108	48	25.0			100			100						0.0			
116	48	50.0	100	100	100			100						0.0			
122	36	75.0	100	100	100			100	100	100				0.0			
132	30	50.0		100				100	100	100				0.0			
153	32	25.0						100	100					0.0			
155	24	37.5	100	100	100									0.0			
159	18	25.0	100		100									0.0			
165	44	62.5		100	100			100	100	100				0.0			
204	30	62.5		100			100	100	100	100				0.0			
208	24	37.5		100				100	100					0.0			
210	8	18.8					50	100						0.0			
251	24	25.0						100	100					0.0			
275	17	25.0	100						100					0.0			
MERILAAT CENTER FOR THE ARTS			(MCA)														
% UTIL		6.3	0	50	0	0	0	0	0	0	0	0		0.0	0	0	0
M150	60	0.0												0.0			
M140	125	12.5		100										0.0			

ROOM NO.	CAPACITY	SCHEDULED CLASSROOM % UTIL	DAY 8 a.m. to 4 p.m. TIME PERIODS 8	9	10	11	12	1	2	3	4	5	% UTIL.	EVENING 6 p to 9p 7	8	9
MERILLAT COMPLEX			(PLEX)													
% UTIL		25.0	0	50	50	0	0	100	0	0	0	0	0.0	0	0	0
P215	45	25.0		100				100					0.0			
P245	35	25.0			100			100					0.0			
DOWDEN SCIENCE HALL			(SCIE)													
% UTIL		37.5	27	82	45	0	18	55	45	27	0	0	0.0	0	0	0
54	24	37.5	100	100	100								0.0			
121	30	62.5		100	100		100	100	100				0.0			
122	30	62.5	100	100	100			100	100				0.0			
124	30	12.5		100									0.0			
125	56	25.0		100					100				0.0			
126	16	12.5		100									0.0			
150	15	25.0		100				100					0.0			
224	40	37.5			100			100	100				0.0			
225	80	50.0	100	100				100		100			0.0			
226	40	62.5		100	100			100	100	100			0.0			
250	15	25.0					100			100			0.0			
UNITED BRETHERN HQ BUILDING											(UBHQ)					
% UTIL		12.5	0	33	33	33	0	0	0	0	0	0	0.0	0	0	0
CLS1	25	37.5		100	100	100							0.0			
CLS2	15	0.0											0.0			
CONF	6	0.0											0.0			
MILLER RESIDENCE HALL									(MILLER)							
% UTIL		0.0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0
22	25	0.0											0.0			
MEADOWS RESIDENCE HALL									(MEADOWS)							
% UTIL		0.0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0
14	25	0.0											0.0			
22	25	0.0											0.0			

Classrooms are considered to be at maximum utilization when 65% of the available class hours are scheduled. Shaded columns indicate scheduled chapel or faculty meeting time.

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