Today’s Agenda

• Board of Trustee updates
• New presentations
  • McDonel Hall – River Trail Neighborhood Engagement Center
  • Steam Distribution – West Circle Steam Loop – 2012
• Project updates
  • Eli and Edythe Broad Art Museum
  • Bott Building for Nursing Education and Research
  • Plant Science Expansion
  • Library – Chiller Replacement
  • Wells Hall Addition No. 2
  • Case Hall Renovations
Step 1: Authorization to Plan

- MSU College of Law – North Entrance Site Improvements
- Hannah Administration Building – Waterproof North Entrance Steps and Ramp
- Roads – Reconstruct Bogue Street and Shaw Lane Intersection – 2013
- Roads – Wilson Road Extension – Study

Step 2: Authorization to Proceed

- MSU Union – Renovations to First-Floor Lobby
- Music Building – Renovations to Room 128 Auditorium
- State Police Post – Demolition of Buildings
- Steam Distribution – West Circle Steam Loop – 2012
- McDonel Hall – Riverwalk Neighborhood Engagement Center
- Spartan Stadium – Replace Existing Scoreboards and Sound System
- Cyclotron – Facility for Rare Isotope Beams

Step 3: Bid and Contract Award

- Steam and Road Reconstruction – Chestnut Road and New Tunnel to IM West Building – 2012
- Armstrong and Bryan Halls – Renovations
- Akers Hall – Refurbish Passenger and Freight Elevators
- Brody Complex – Utility Improvements – Phase IV
Step 1: Authorization to Plan
- Hannah Administration Building – Third Floor Renovations

Step 2: Authorization to Proceed
- Hannah Administration Building – Waterproof North Entrance Steps and Ramp
- Auditorium – Alterations to Fairchild Theatre
- Clinical Center – C-Wing HVAC Project

Step 3: Bid and Contract Award
- Music Building – Renovations to Room 128 Auditorium
McDonel Hall – River Trail Neighborhood Engagement Center

McDonel Hall
Engagement Centers

- Intercultural and Career Counseling
- Financial Aid Advising
- Academic Advising
- Health Services
- Sparty’s Store
- Open Computers
- Student Lounge
- Multi-purpose Meeting Rooms
Renovation Scope

- Full fire suppression on first level and basement levels
- Cosmetic upgrades in lobbies and corridors
- Engagement Center displaces classrooms
- Sparty’s Store and Health Services suite located at existing student lounges
- Cosmetic upgrades in basement lounge
- Scale-up Classrooms displace the computer lab and weight room
Scale-up Classrooms

- Seating for 60 Students
- Multiple monitors throughout the room for flexible presentation
- Layout based on Steelcase mediascape with (10) six person tables
Project Budget

$5,500,000

Project Timeline

1. December 12, 2011
   Schematic Design Complete

2. January 20, 2012
   Design Development Complete

3. March 16, 2012
   Bid Documents Complete

4. May 07, 2012
   Commencement of Construction

5. August 2012
   Construction Completed
McDonel Hall – River Trail Neighborhood Engagement Center

More information on construction website

CONSTRUCTION.MSU.EDU

McDonel Hall - River Trail Neighborhood Engagement Center

In-Planning/Design
September 2011 - January 2012

Description: This project aims to transform a cluster of residence halls into a neighborhood, where students in those halls discover and create their own community in a setting that provides innovative and integrated support services located right where they live and learn. Engagement centers are a key component to this concept. This engagement center will provide an environment in which the Four Pillars of the neighborhood come together to enhance the living learning experience. The Four Pillars of a neighborhood are Residential Support, Health and Wellness, Academic Success, and Intercultural Engagement. There is a need for an engagement center on north campus to service the River Trail neighborhood.

The planning of this project is anticipated to include renovation of the first floor and possibly the garden level in McDonel Hall. This work will include various semiprivate and private group meeting/study spaces, neighborhood support offices and program space. McDonel Hall is located on Shaw Lane across from the IM East in the residential district.

Questions, comments, concerns?

Design Representative: Sue Hopper, shopper@pplant.msu.edu, 517-353-3222
Project area
Steam Distribution – West Circle Steam Loop – 2012
January 2012

New configuration for roads and parking
Steam Distribution – West Circle Steam Loop – 2012

January 2012

PHASE 1: FEB - APRIL 20

13 WEEKS

WORK AREA 1

- NO ROADS CLOSED
- SOME ON STREET PARKING CLOSED AND ONE LANE OF WEST CIRCLE CLOSED IN CERTAIN LOCATIONS FOR TRUCK TRAFFIC
- SITE WORK SHUT DOWN DURING EXAM WEEK, APRIL 20 - MAY 7

PEDESTRIAN ROUTES
West Circle Steam Loop 2012 Public Presentations

• 8:30 a.m. Jan. 27, 2012 in Union Parlor A
• 5:30 p.m. Feb. 16, 2012 in 206 Old Horticulture
• 1:30 p.m. March 26, 2012 in Union Parlor A
Steam Distribution – West Circle Steam Loop – 2012
More information on construction website

MSU Construction

Steam Distribution - West Circle Steam Loop

In-Planning/Design
September 2011 - January 2012

Description: The north campus arch-style steam tunnels are 87 to 102 years old and have significantly deteriorated. The structural anchors, pipe supports and steam equipment within these tunnels also require replacement or repair for safe and reliable operation of the steam distribution system.

This project is the first phase of a four-phase program to replace the deteriorating north campus arch steam tunnels, and is anticipated to include installation of a new steam distribution loop around West Circle (from Landon Hall moving clockwise to a point east of Human Ecology). Repair and replacement of steam piping, supports, and equipment within some existing steam tunnels will also be included. This will increase the reliability of the steam system and provide a mechanism to remove arch steam tunnel segments with minimum impact to campus building operations. During this construction, all the buildings in the zone of influence will be converted to high-pressure steam and pressure-condensate return lines, improving energy efficiency. The deteriorated cast-iron water main will be replaced to increase airflow capacity and reliability. Additional communication and electrical duct will be installed according to master plans. West Circle Drive will be replaced with two traffic lanes and one bike lane providing appropriate vehicular, pedestrian, and bicyclist safety improvements.

The project is located on north campus, along West Circle Drive, between Beal Street and East Circle Drive (Fustace-Cole Hall) in the north academic district.

Questions, comments, concerns?
Design Representative: Scott Gardner, mgardner@plant.msu.edu, 517-432-0782

Special Presentations
Closed to eastbound traffic. Traffic shift for one-way westbound traffic.

Eastbound detour begins. East Circle Drive closed to through traffic. Open to Ramp 6, Olin Health, Lot 7 and Lot 8.
View of exterior on the southwest side of the building
Glass wall on northwest side
The roof is undergoing final waterproofing
The steel for the skylight has been installed
First floor of the northwest gallery looking up
View from second floor looking down
Northeast gallery
Southwest gallery
View from inside feature stairway
View of feature stairway from the roof
First floor public restrooms
Framing has been installed in the Benefactors Gallery
Communication room
Mechanical room
CONSTRUCTION.MSU.EDU
North elevation – then and now

November

January
Atrium in November and atrium elevation
Third floor November and now
Southeast side foam board and insulation
Mechanical room
No snow is good for the project
Area closed through 2012. Pedestrian detour is on the Service Road sidewalk to the east side of building.
Bott Building for Nursing Education and Research
More information on construction website

CONSTRUCTION.MSU.EDU
Bike loops have been installed
Exterior view of expansion
View of plaza
New auditorium with barrier-free ramp
Artwork has been installed in the gathering space
Work space
Office spaces are completed
Kitchenette/break room area
Pedestrian bridge
Green roof has been planted and is doing well
Stairwell in expansion
Plant Sciences Expansion

In-Construction
May 2010 - January 2012

Description: This project includes construction of a new 90,000-square-foot plant sciences building, demolition of the single-story lecture hall on the northwest corner of the Plant and Soil Sciences building, and associated renovations required due to the physical connections being made. The expansion will be located in the plant sciences area between Plant Biology and Plant and Soil Sciences buildings, at the corner of Wilson Road and Bogue Street in the Central Academic District. The facilities expansion will enable MSU to meet present and future research needs.

This project focuses on creating laboratory research and research support space. It is designed to foster interdisciplinary research by encouraging and facilitating interaction amongst all occupants/users in the new addition as well as the existing Plant Biology and Plant and Soil Sciences buildings. The expansion will accommodate fixed equipment such as growth chambers in centralized core facility laboratories, and implement an open laboratory design. The space will be used for research laboratories, laboratory support and office space. The addition will also connect both the Plant Biology and Plant and Soil Sciences buildings. The fourth floor will be shelved only to allow future expansion.

In order to accommodate the project, 79 trees will be removed during construction. However, a total of 29 trees will be transplanted, with three staying on site (out of the construction area), nine returning to the site after project completion, and one tree transplanted to another location on campus. Also, three trees will be transplanted to the Clarence E. Lewis Arboretum and 13 moved to the Horticulture Gardens.

To see how this project is progressing from the comfort of your home or office, check out the virtual tour.

Timeline: Construction began in May 2010 and will be substantially complete by the end of 2011, with final completion by spring 2012.

Impacts to pedestrians, bikers, motorists: The lane closure on Wilson Road has been removed, with no further detours planned. However, closures may be scheduled in the future to accommodate delivery needs.

Questions, comments, concerns?

Design Representative: Amr Abdel-Azim, amrabdela@plant.msu.edu, 517-432-6323
Construction Representative: Chris Thronson, cthronson@plant.msu.edu, 517-432-7761
New terrace area from roof – looking west
Inside new electric vault/underside of terrace
Old absorption machine being lifted out
Another view of old absorption machine
New machine waiting for lift
First new machine placed in building
Both machines in final positions with upper sections set
New cooling towers and screenwall support steel in place on east roof
CONSTRUCTION.MSU.EDU

Main Library Chiller Replacement

In-Construction
July 2011 - April 2012

Description: The Main Library, located on West Circle Drive between Wurtele, Sports Circle and Olds Hall, serves as the central hub for Michigan State University’s knowledge base, on-campus research, and quiet study for the campus community.

MSU owns more than 4,500,000 volumes and 33,000 publications, along with maps, recordings and other resources. The Main Library houses many items that, due to their age, require specific temperature and humidity criteria be met to sustain preservation. This is accomplished using steam absorption chillers to create chilled water for the building’s air-conditioning system. It was discovered during a maintenance inspection that the significant components of the chillers had reached the end of their service life and need to be replaced. In addition, a recent study concluded that the cooling load has increased such that there is no longer system redundancy to sustain operations during a maintenance event.

This project will include a complete replacement of the building’s chilled water system, including:

- Excavation of the south and west sides of the east wing of the building;
- Complete demolition and replacement of existing absorption machines, chilled water pumps and piping in basement mechanical room and cooling towers;
- New below-grade enclosure on the west side of the east wing for the new electrical substation;
- Expansion of area along the south side of the east wing for chiller installation;
- New electrical substation transformers and equipment to serve the additional electrical demand in the building;
- New steam absorption chillers, pumps and cooling towers;
- Replacement of sections of steam distribution piping in the steam tunnel leading to the Library;
- Four separate air handling units in the west wing to be replaced with a single, variable-volume air-handling unit;
- Electrical service connections to equipment;
- HVAC control connections;
- System balancing;
- Site restoration upon completion of the project including, but not limited to, sidewalks, plantings, sections of Lot 11 (located south of the building), installation of a pedestrian speed table across the service drive and the creation of a barrier-free, universal plaza leading to the south entrance of the building.

Questions, comments, concerns?

Design Representative: Jacob Sabins, jbsabins@plant.msu.edu, 517-355-6493
Construction Representative: Todd Wilson, tdlwilson@plant.msu.edu, 517-432-4355
Presentation space viewed from Red Cedar Road
View of the first floor
Bamboo is being used on the second floor
Recycling cabinets on the second floor
Second floor mail room
Communications space on third floor
Data room
Wells Hall Addition No. 2
January 2012

View of the third floor
View of the third floor
View of the third floor
View of the fourth floor
Wells Hall Addition No. 2
More information on construction website

CONSTRUCTION.MSU.EDU

Wells Hall Addition/Morrill Hall Replacement

In-Construction
September 2010 - May 2012

Description: In June 2010, the Michigan State University Board of Trustees approved a plan to demolish venerable Morrill Hall on the campus's north side. To provide space for current Morrill Hall occupants, the plan includes an addition to Wells Hall and renovations to the Old Horticulture Building.

Close monitoring of the internal wooden structure of Morrill Hall has revealed irreparable deterioration, indicating that the more-than-100-year-old building is approaching the end of its useful life. The university has determined that reconstruction and restoration of the building, which was built in 1906, would not be economically feasible.

The replacement of Morrill Hall will offer the university a unique opportunity to significantly upgrade the quality of space for its current occupants, and to achieve a more efficient use of space through effective design and allocation.

The departments of English and History currently occupy the majority of space in Morrill Hall. The project will create a language hub at Wells Hall including English; Linguistics and Germanic, Slavic, Asian, and African Languages; Spanish and Portuguese; English Language Center; and French, Classics and Italian – and place these units in proximity to colleagues in the College of Education and International Studies Programs. Religious Studies and African American African studies also will relocate to Wells Hall. The ultimate goal is to create cohesive and vibrant communities for students, faculty and staff.

History will relocate to Old Horticulture in total and maintain its north campus location. Renovations to Old Horticulture are planned as part of this project to accommodate the relocated History department.

This project will also include a green roof on the one-story addition, a new and visible east–west entrance to Wells Hall, removal of on-street parking, creation of adjacent barrier-free parking and street realignment and widening.

Demolition of Morrill Hall will follow the completion of the Wells Hall Addition. The work scope currently involves demolition of structure, site restoration with lawn, sidewalks, benches and commemorative signage. As the demolition and site plan details are further developed, opportunities for site restoration will be explored, including ways to commemorate the significance of the Morrill Act and potentially using pieces of the Morrill Hall building.

Originally opened in 1906, Morrill Hall is named in honor of Justin Smith Morrill, the Vermont senator for whom the Morrill Act is named and what brought about the establishment of the land-grant university. The Morrill Act was signed into law by President Abraham Lincoln in 1862. For the past
Touring Case Hall’s New South Pointe Dining Experience
Case Hall Renovations
More information on construction website

CONSTRUCTION.MSU.EDU
You are cordially invited to Michigan State University's 2011-2012
CONTRACTORS & CONSULTANTS FORUM

Wharton Center's Pasant Theatre
Wednesday, January 25 — 1:30 to 5 p.m.
The forum begins promptly at 2 p.m., with a half hour of networking time scheduled for the beginning and end of the event.

Parking information:
Visitors should park in the Wharton Center parking ramp.

For driving directions to campus visit: maps.msu.edu

R.S.V.P. requested:
B.S.V.P. by Jan. 15 if you ARE ATTENDING this forum. No response is necessary if you cannot attend.
E-mail communications@ipplant.msu.edu with the subject line “Contractors and Consultants Forum” with your name, company name and number attending from your company.

Questions?
Contact Communications Manager Karen Zelt at kzeit@ipplant.msu.edu or 517-432-3624.

Agenda *
- Michigan State University’s core values
- Health and safety
- Sustainability at MSU
- Contracting with MSU
- Construction delivery methods
- Website walk-throughs
- Construction projects
- Upcoming projects

** Agenda is subject to change. For much more detailed information on the agenda and the scheduled presenters, visit: www.construction.msu.edu/cc-forum-2011-2012

**Submit questions in advance to communications@ipplant.msu.edu with the subject line “Contractors and Consultants Forum.” Questions will be read during the Q&A session.

Physical Plant Division
Stay connected via social media

For updates on all things Physical Plant follow @MSUPhysPlant on twitter and become a fan of our facebook page – MSU Physical Plant Division. Also, check out our YouTube page at youtube.com/physicalplantmsu for virtual tours of major projects on campus.
BEFORE YOU GO, VISIT THE CONSTRUCTION ‘SITE’:

CONSTRUCTION.MSU.EDU

Key features:

• Construction Projects
  – Project info
  – Contact information
• Construction Detours
• Construction Junctions
• Construction Listserv
Construction Junctions continue monthly

Meetings are at 8:30 a.m.
the second Thursday of the month

• February 9
• March 8
• April 12

Please sign in and take a survey before you go!