CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES
Thursday, June 12, 2014

Twitter hashtag #msuconstruction
PLEASE FILL OUT A SURVEY!
They are available on the table at the front of the room

• Please fill out your surveys and return them to the front table before you leave.
• We want your thoughts and suggestions about how you feel Construction Junction went, and what we could do to improve.
• Thank you in advance!
• Board of Trustees updates

• Progress updates
  o West Circle Housing Complex – Infrastructure Improvements – 2014 (Phase 2 of 2)
  o North Campus Infrastructure Improvements – West Circle Drive 2014
  o Chittenden Hall – Renovation
  o Butterfield Hall – Renovation
  o Bio Engineering Facility
  o Spartan Marching Band – Artificial Turf Field
  o Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
  o Kresge Courtyard Renovation

• Update on Parking Lot 97 – Engineering Research

• New interactive campus/detour map demonstration

• Alerts feed on the IPF website
Board of Trustees
June agenda (subject to change without notice)

Step 1: Authorization to Plan

- Breslin Student Events Center – Implement Facility Upgrades
- Duffy Daugherty Football – S.A.A.C. Renovate Team Locker Room and Training Room
- Breslin – Berkowitz – Alterations to Basketball Offices
- T.B. Simon Power Plant – Capacity and Future Needs
- Engineering Research – Hulett Road – Addition No. 2 – Food Processing Innovation Center

Step 2: Authorization to Proceed

- Kellogg Center – Replace Absorption Chilled Water System
- Facility for Rare Isotope Beams – Building Structure
- T. B. Simon Power Plant – MACT Compliance for Boiler 4
Step 2: Authorization to Proceed

- Breslin – Berkowitz – Alterations to Basketball Offices

Step 3: Bid and Contract Award

- Well House 32 – New Campus Well
Project area
Why?

• This is the second phase of a two-phase project.
• New steam tunnels, electric service, communication ducts and water mains will replace 50-year-old services.
• Will improve reliability for all utility services.

Timeline:

• Construction start: April 7
• Substantial completion: December 2014
  o Early work will take place from April 7 to 18.
  o Visible construction will be complete by August 2014.
  o Work will continue behind-the-scenes within buildings and underground through December 2014.
Impacts:

• West Circle Housing Complex will be vacant for summer.
• Delta Court closed east of the Wills House driveway with no access from Delta Court to Williams Hall, Gilchrist Hall, Yakeley Hall, Mary Mayo, Landon Hall and Campbell Hall.
• Maintain construction access to the Landon Hall construction site (via West Circle Drive between Landon Hall and Yakeley Hall).
Construction site work
Utility layout
Construction detour plan (May 5 – Aug. 1)
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Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
517-432-2675

Design representative:
John Lefevre
jlefevre@ipf.msu.edu
517-884-6740
North Campus Infrastructure Improvements – West Circle Drive 2014
June 2014

Project area
Why?

• This project is the third of a four-phase program to replace the deteriorating north campus arch steam tunnels. It involves:
  o removing and replacing existing steam tunnels and building service leads;
  o increasing the steam distribution mains to the region;
  o increasing line capacity for high-pressure steam distribution mains;
  o converting the condensate return from a vacuum system to a pressure return; and
  o upgrading the MSU Museum’s steam service to high-pressure steam and pressure condensate return.

Timeline:
• Construction start: November 2013
• Substantial completion: Fall 2014
Impacts:

• During construction, all the buildings in the zone of influence will be converted to high-pressure steam and pressure-condensate return lines, improving energy efficiency.

• West Circle Drive will be replaced with two traffic lanes and one bike lane (one-way traffic), providing appropriate vehicular, pedestrian and bicyclist safety improvements.

• Pedestrian detours are in effect around the project site.
Aerial view of site looking southwest
Steam tunnel under construction in front of Cook Hall
Aerial view of site looking northwest
Construction detour plan (May 5 – July 15)
Fliers and display boards available
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Chittenden Hall background:

• Built in 1901 at a cost of $15,000

• 13,500-gross-square-foot building

• Located on West Circle Drive and part of historical Laboratory Row

• Initially known as the Dairy Laboratory, designed for the production and study of dairy products

• 1913 - the dairy moved and it became home of the Department of Forestry until 1966

• 1969 - the building was formally named after Alfred K. Chittenden

• College of Agriculture and Natural Resources, Department of Agricultural Economics graduate students occupied until 1999

• 1999 to present - building vacant and awaiting renewal
Why?

• This project involves a comprehensive renovation that respects the historical features of the exterior and interior of the building.

• Interior spaces to support the Graduate School program will drive the design and layout of these rooms.

• Renovations will include:
  - Building infrastructure
  - Addressing needs such as plumbing, heating ventilation and air conditioning, electrical, life safety and data
  - Building envelope and foundation
  - Accessibility, including addition of an elevator and restrooms
Impacts:

- Lot 7 (south of Old Horticulture) is partially closed for duration of project
- Building is currently vacant

Timeline:

- Construction start: Nov. 19, 2013
- Substantial completion: Fall 2014
Historic photo – west elevation
Support steel in place in attic
Lifting equipment into second story
Ongoing plaster and paint work
Construction detour plan (Nov. 15, 2013 – Aug. 24, 2014)
Graduate School website features frequent Chittenden updates

Windows on West Circle
Posted on June 3, 2014

If you’ve walked past Chittenden Hall today, you may have noticed that the windows have been removed. This marks a big step forward in the Chittenden Hall renovation project, as these windows were a complicated feature.
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Main entrance to Butterfield Hall
Reception desk
Second-floor center core
Meditation room
Meditation room foot sink
Third-floor kitchen
Second-floor kitchenette (one on each floor)
Fourth-floor fitness center
South elevation – view from main Brody Hall
Construction representative:
Ken Gottschalk
kjgottsc@ipf.msu.edu
517-353-7234
Why?

• This project involves a four-story research lab building that is designed to facilitate interdisciplinary research and interaction among all occupants.

• The building will be physically connected to the existing Clinical Center C-Wing and Life Science B-Wing, with proximity to the Radiology Building to facilitate the sharing of core research resources.

Timeline:

• Construction start: September 2013
• Substantial completion: September 2015
Impacts:

• The two east doors on the southeast side are for emergency egress only (directional fencing in place).
• The north drive off Service Road will be closed to on-street parking and open to construction traffic and deliveries only.
• Increased construction traffic.
Building underground utilities complete
Third floor ready for concrete
View looking north from Bio Engineering building - loading dock asphalt
HVAC and sprinkler piping
Construction detour plan (Sept. 27, 2013 – Aug. 31, 2015)

Road closed to the public. Construction and delivery use only beginning June 23.

Three-way stop
Construction representative:
Ken Gottschalk
kjgottsc@ipf.msu.edu
517-353-7234
Project goals:

- Artificial turf will provide a safer and superior surface for the band. Intramural sports activities and other summer sports camps will also use the space.

Project scope:

- The artificial turf field will incorporate:
  - Improved drainage system
  - Infill system comprised of recycled tires

- Other improvements:
  - Band tower
  - New fencing/gate and drive relocations
  - Relocation of javelin and discus cage
  - Bleacher seating with accessible walk to accommodate 300 spectators
Impacts/timeline:

• Construction began after spring commencement in 2014.
• Summer 2014 construction will impact the southeast portion of Munn Field.
• Completion is required to accommodate marching band practice mid-August.
Spartan Marching Band – Artificial Turf Field
June 2014

Location map
Construction site work – looking north
Construction detour plan (May 12 – Aug. 8)
Spartan Marching Band – Artificial Turf Field
June 2014

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Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355

Rendering of an overhead view of new turf field

**Spartan Marching Band – Artificial Turf Field**

Project phase: Planning/Design

The Spartan Marching Band requires a dependable, safe and available football field surface for band practice in the fall, and a lighted field would provide increased safety. The band currently practices at Demonstration Hall Field, but the location is problematic because of the maintenance requirements and irrigation issues associated with a grass field. An artificial turf field will provide a safer and superior surface for the band. Intramural sports activities and other summer sports camps will also use the space.
Munn Ice Arena

Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
June 2014
**Project scope:**

- This project involves replacement of the ice plant, rink surface, dasher board system and glass, and also improvements to the HVAC system.

- The project will take advantage of energy-saving technology for the HVAC system and addresses deferred maintenance needs for this building.

**Timeline:**

- Construction start: Nov. 11, 2013
- Substantial completion: Aug. 8, 2014
Impacts:

- Periodic road impacts will occur over the duration of the project through August.
- Pedestrian access around the site will be maintained at all times with new crosswalks to the north adjacent to Demonstration Hall and to the south at the northeast corner of Munn Field.
Phase 3 (end of hockey season to Aug. 15, 2014)
Munn floor
Finalizing concrete placement
Rendering of northeast corner
Rendering of east elevation
Construction detour plan (June 1 – June 15)
Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
June 2014

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Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355

Munn Ice Arena – HVAC Upgrades and Ice-Making System Replacement

Project phase: Construction

The ice plant and heating ventilation and air conditioning (HVAC) systems at Munn Ice Arena are original to the building and have reached the end of their useful life.

This project involves the replacement of the obsolete HVAC systems.
Summer Circle Theatre current location at Auditorium Field

Kresge Courtyard Renovation
June 2014
Kresge Courtyard Renovation
June 2014

Location map
Project goal:

• Provide “outfitted” permanent, and accessible home for Summer Circle Theatre and create engaging outdoor environment for temporary art display, classes, music performance and informal gatherings.
Kresge Courtyard Renovation
June 2014

Stakeholders

- College of Arts and Letters (theater and art)
- College of Music, especially related to renovated Fairchild Theatre use
- Resource Center for Persons with Disabilities
- MSU Police
- Curator of Woody Plants, Campus Planning
Project scope:
• Wall and pavement demolition, shrub removals, site lighting relocations
• New brick walls, walkways, stage and refreshed landscaping
• Utility work: Storm adjustments, electrical feed and lighting

Timeline:
• Construction to begin: May 2014
• Substantial completion: Aug. 15, 2014
• Completion: June 2014 (weather dependent)
Project requirements:

• Sustainability:
  o Brick from north wall will be salvaged and reused to rebuild walls
  o Porous rubber pavement will utilize recycled tires
• Safety: pavement upgrades will provide a safer surface in courtyard
• Parking impacts are not anticipated, since large performance events will be scheduled in the evening
Impacts and opportunities:

- Amphitheater design provides wheelchair access on two of the three levels.
Kresge Courtyard Renovation
June 2014

Looking east toward the Chapel
Looking west toward Fairchild Theater
Kresge courtyard renovation – view from the southwest
Kresge courtyard renovation – view from the northeast
Kresge Courtyard Renovation
June 2014

Construction detour plan (June 1 – Aug. 16)
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
517-432-2153
Project postponed until summer 2015:

- Due to cost and funding concerns, Infrastructure Planning and Facilities has reevaluated the Parking Lot 97 expansion project and rescheduled it for summer 2015.
- The delay will also allow for the project to be completed during summer 2015 without extending into the academic year.
IPF website

- Alerts feed
- Construction
- Resources
- Listservs
- Much more!

www.ipf.msu.edu
Construction detours – June 2014

New campus/detour interactive map
Alerts feed on IPF website

Current work alert information available

Alerts

Alerts

Scheduled downtime

Red water

Home > News and alerts > Alerts

Campus road construction and detours
See information about campus road construction and detours.

Scheduled computer downtime
See a list of all scheduled computer downtime for IPF applications and systems.

Alerts

Alarm testing
Erickson Hall
May 23, 2014 6:00:00 AM - May 23, 2014 8:00:00 AM
Infrastructure Planning and Facilities will test the fire alarm system in Erickson Hall

Alarm testing
Bessey Hall
May 23, 2014 6:00:00 AM - May 23, 2014 8:00:00 AM
Infrastructure Planning and Facilities will test the fire alarm system in Bessey Hall

Alarm testing
Engineering Building
May 21, 2014 6:00:00 AM - May 21, 2014 8:00:00 AM
Infrastructure Planning and Facilities will test the fire alarm system in Engineering Building.
Stay connected via social media

For updates on all things IPF follow [MSUfacilities](https://twitter.com/MSUfacilities) on Twitter and become a fan of our [Facebook](https://www.facebook.com/MSUFacilities) page – [MSUFacilities](https://www.facebook.com/MSUFacilities). Also, check out our [YouTube](https://www.youtube.com/FacilitiesMSU) page at [www.youtube.com/FacilitiesMSU](https://www.youtube.com/FacilitiesMSU) 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

- July 10 (College of Law, Room 343)
- August 14 (College of Law, Room 343)
- September 11 (TBD)

Please sign in and take a survey before you go!