Today’s agenda

- **Board of Trustee updates**
- **New presentations**
  - North Campus Infrastructure Improvements – West Circle Drive (2014)
- **Progress updates**
  - Transportation Services – New Fuel Station
  - Duffy Daugherty Football Practice Field – Filming Tower
  - Breslin Center – Berkowitz Basketball Complex Alterations
  - Anthony Hall – Energy Conservation Measures
  - West Circle Steam Loop Segment 2 (2013)
  - Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs
  - Parking Lot 67 (Jenison) Reconstruction
  - Butterfield Hall – Renovation
  - MSU Union – North Neighborhood Engagement Center and Multicultural Center
  - Spartan Stadium – North End Zone Addition
  - Landon Hall – Dining Renovation, Building Life Safety and Accessibility
Step 2: Authorization to Proceed
  • Olin Health Center – Chiller Replacement

Step 3: Bid and Contract Award
  • Administration Building – Second Floor Renovations
Step 2: Authorization to Proceed

- Clinical Center – C-Wing HVAC Replacement
- Chittenden Hall – Renovation
- Spartan Marching Band – Artificial Turf Field
- North Campus Infrastructure Improvements – West Circle Drive (2014)

Step 3: Bid and Contract Award

- Well House No. 32 – New Campus Well
Safety season
Safety is our first priority

• For all campus travelers:
  • Please respect construction site fencing; do not traverse sites.
  • Detour routes around construction zones:
    • Established with MSU PD for your safety and convenience
    • Please follow signs for your safety
    • All detour routes posted at www.construction.msu.edu

• Pedestrians and bikers:
  • Avoid darting out in front of or behind equipment, and make eye contact with drivers before crossing the street in front of them.
  • Ride your bike at a safe speed near construction sites.

• Vehicles:
  • Watch out for temporary pedestrian crossings.
  • Drive at posted speed limits.

➢ To report an area of concern call 353-1760
Project need:

• 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 are also severely deteriorated and require replacement or repair for safe and reliable operation of the steam distribution system.
• The project includes road reconstruction (pedestrian, bicyclist, and vehicular safety improvements), communication, water, and electrical distribution improvements to the north campus region.
• This is the third segment of a four-segment project.
Proposed utilities, road and site work

West Circle Drive
Chittenden Hall – proposed steam pressure relief valve (PRV)
Impacts:

- Project requires road reconstruction
- Project being coordinated with Chittenden Hall renovation
- Parking/traffic potential impacts:
  - Requires road closings and detours for part and full duration of the project.
  - Proposed work is being coordinated with MSU Police and outside entities regarding closures/detours.
  - Temporary pedestrian detours will be required during construction.
- Project schedule:
  - Construction schedule: November 2013 through mid-August 2014
  - Site construction schedule: May 2014 through mid-August 2014
North Campus Infrastructure Improvement – West Circle Drive (2014)

Design representative:  
Scott Gardner  
mgardner@ipf.msu.edu  
517-432-0782

Construction representative:  
Andy Linebaugh  
alinebau@ipf.msu.edu  
517-432-7103

North Campus Infrastructure Improvement - West Circle Drive 2014

Project phase: Planning/Design

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 are severely deteriorated and require replacement or repair for safe and reliable operation of the steam distribution system. Communication lines are in the same tunnels as steam and condensate return lines, which is not optimal. The existing electrical duct bank is currently full, requiring additional ducts be installed for future electrical improvements to this region of campus.

This project is the third segment of a four-segment program, and is anticipated to include replacing the deteriorating north campus steam tunnels and building service leads; increasing the steam distribution mains to the region; increasing steam line capacity and converting the condensate return from a vacuum system to a pressure return; upgrading the steam service to all buildings in the project area; removing the vacuum return system from the north campus substation; and reconstruct West Circle Drive from Auditorium Road to East Circle Drive (Linton Hall Service Drive). The project will also install additional communication and electrical ducts, and reconstruct a segment of West Circle Drive in accordance with the campus master plan, providing appropriate vehicular, pedestrian, and bicyclist safety improvements.

This project is centered along West Circle Drive from Auditorium Road north to Linton Hall, near the intersection with East Circle Drive.

Questions, comments, concerns?

Design representative  
- Scott Gardner, mgardner@ipf.msu.edu, 517-432-0782
Rendering of fuel station and car wash
Why?

• Safety and environmental issues require moving the fueling station from Spartan Stadium.
• There are efficiencies to keeping the car wash, which is at the end of its useful life, located with the fueling station. Relocation of the car wash would also eliminate the need to move vehicles for major events at Spartan Stadium.
• This project includes:
  • Decommissioning the existing fueling station and underground fuel tanks on east side of stadium,
  • Creating new fueling station on Service Road, including:
    • gas pumps,
    • an overhead canopy paved,
    • circulation space for large and small service vehicles (including buses),
    • a new car wash to replace the existing facility.
• This station is for fueling university vehicles only.
Project updates:
• Curbs and sidewalks being installed
• Heated concrete under canopy being installed
• Paving of site next week
• Roof install next week
• Glass block installation next week
• Currently roof drains being installed
• Fuel station open by mid-August

Impacts:
• Fuel station at stadium will be shut down
• Fleet cars will now fill up at the new fuel station
Sidewalk installation
Car wash – inside view
Canopy for fuel pumps; installing snowmelt system
Transportation Services - New Fuel Station

Project phase: Construction

The current Transportation Services Fueling Station is located adjacent to Spartan Stadium. There are safety and environmental issues that require moving the fueling station from this large assembly area. Further, there are efficiencies to keeping the car wash, which is at the end of its useful life; located with the fueling station, and relocation of the car wash would also eliminate the need to move vehicles for major events as Spartan Stadium. The project team has identified Service Road, east of the Laundry Building, as the best location for a new facility.

The project is located at Spartan Stadium (between Shaw Lane, Chestnut Road and Red Cedar in the Athletic and Recreation District) and on Service Road (east of the Laundry Building). The project includes decommissioning the existing fueling station and relocating the function to the Service Road location. The new station will include underground tanks, dispensers, and surround safety sound barriers near to...
LOOKING SOUTH FROM SHAW
Project updates:

- Project is complete and video team is presently utilizing.
- Tower came in seven pieces and took around six hours to assemble.
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
517-432-2153
Breslin Center – Berkowitz Basketball Complex Alterations

Berkowitz Basketball Complex
Project updates:

- Substantially completed Aug. 1
- Programming/commissioning of micro tile wall substantially complete Aug. 1
- Basketball recruits already being chauffeured through new renovations
- Main attractions are the micro tile (giant television screen – biggest one in the Midwest) and the new suspended trophy rack
Construction representative: Kevin Durkin
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517-432-2153

Breslin Center – Berkowitz Basketball Complex Alterations
August 2013

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MICHIGAN STATE UNIVERSITY
Infrastructure Planning and Facilities

Projects

Breslin Center - Berkowitz Basketball Complex Renovations

Project phase: Planning/Design

The Alfred Berkowitz Basketball Complex opened in 2002. After 10 years of heavy use, several areas are in need of refurbishment. This also provides an opportunity to upgrade technology for recruiting, fundraising and fan enjoyment. As technology and aesthetics have developed, there is an opportunity to complete this area in a manner consistent with other Big Ten facilities, which will improve the public experience and enhance recruiting.

The planning of this project is anticipated to include renovations in the lower level corridor, concourse level, and patios. Upgrades will include finishes, lighting, furnishings, and technology.

The Jack Breslin Student Events Center is located corner of Birch Road and Kalamazoo in the athletic and recreation district. The location of this project is consistent with the Campus Master Plan and Planning Principles.

Questions, comments, concerns?

Design Representative:
- Jeff Kasdorf, jkasdorf@ipf.msu.edu, 517-353-5141
Why?

- MSU’s showcase project in the U.S. Department of Energy’s Better Buildings Challenge program.
- To implement energy conservation measures, improve the facility and address maintenance and repair items.
- These efforts will:
  - enhance safety
  - reduce waste
  - increase occupant comfort
  - reduce greenhouse gas emissions
  - improve operations
  - improve energy-efficiency

Project updates:

- Continuing with occupancy sensor installation throughout the building
- New variable frequency drives
- New motors
- Project to be completed by end of November
Construction representative:
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517-432-2153
West Circle Steam Loop Segment 2 (2013)

Project area
Why?

- Michigan State University uses steam to heat campus buildings.
- Some steam tunnels are old and in need of repair.
- Project also includes core infrastructure improvements:
  - water main upgrades
  - telecommunication upgrades
  - electrical upgrades
- West Circle Drive will be reconstructed to:
  - have two traffic lanes and a bike lane,
  - be consistent with current MSU transportation standards.
Impacts:

- Road closures:
  - West Circle Drive closed from IM Circle east to MSU Library.
- Northbound campus traffic is directed to Farm Lane to access north campus.
- Beal Street and Kalamazoo Street was opened to traffic June 12. Bridge is open by Sparty Statue.
- Beal Street is completely open.
  - Beal Street will be paved next week.
- **Starting on Friday, Aug. 16, the temporary two-way traffic on West Circle Drive between East Circle Drive and Parking Lot 11 will be removed, and one-way traffic will be restored.** Please continue to use caution and be aware of the restored traffic flow.
- Some utilities may be interrupted (electrical, computer, phone) as upgrades are made to those systems, but they should be very minimal, short in duration, and will be scheduled in advance.
Impacts: Multiple phases

Temporary access drive to Music Building.
Timeline:

- Construction started: January 2013
  - Multiple phases: check construction.msu.edu for updates
- Substantial completion: Aug. 16
West Circle Steam Loop Segment 2 (2013)
August 2013

Looking east from I.M. Circle
Steam tunnel waterproofing installation
Construction representative:
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West Circle Steam Loop 2013

Project phase: Construction

Michigan State University uses steam to heat campus buildings. The steam is generated at the T.B. Simon Power Plant on south campus and distributed to most campus buildings via an intricate network of steam tunnels. Some of the steam tunnels are in need of repair to avoid failures of steam delivery to campus buildings.

The 2013 work on West Circle Drive is the second segment in a four-segment program to replace the deteriorating steam tunnels.

Additional core infrastructure improvements will be made in conjunction with the steam upgrades, including water main, telecommunication and electrical upgrades.

West Circle Drive also will be reconstructed with two traffic lanes and a bike lane to be consistent with current MSU transportation standards.
Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs

Project area
Why?

- The existing Bogue Street and Shaw Lane traffic circle does not meet current federal design guidelines for public rights-of-way to provide equal accessibility for all users.
- Steam system repairs are part of this project as Michigan State uses an intricate network of steam tunnels and lines to heat campus buildings, and some of the lines are in need of repair to avoid failures in steam delivery.
- Additional core infrastructure improvements will be made in conjunction with the steam upgrades, including:
  - water main upgrades,
  - telecommunication upgrades,
  - electrical upgrades.
Impacts:

Lot 23 and north Owen Hall entrance closed. Access to loading dock will be maintained.

Deliveries to Owen, Van Hoosen and Business Complex via South bound Bogue Street.
Timeline:

- Construction started: January 2013
- Complete closure of the Bogue Street/Shaw Lane intersection: Started May 5. Will reopen in time for student move-in, Aug. 16.
Aerial rendering of future intersection
Looking east from Shaw
Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs
August 2013

Looking west from Shaw
Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs
August 2013

Construction representative:
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Bogue Street/Shaw Lane Intersection
Reconstruction and Steam Repairs

Project phase: Construction

The existing Bogue Street and Shaw Lane traffic circle does not meet current federal design guidelines for public rights-of-way to provide equal accessibility for all users. These new standards require design modifications and traffic signals for pedestrian safety, particularly pedestrians with mobility disabilities.

Additionally, steam system repairs are part of this project as Michigan State uses an intricate network of steam tunnels and lines to heat campus buildings, and some of the lines are in need of repair to avoid failures in steam delivery. The steam system lines serving Owen Graduate Hall will be replaced with a steam tunnel to ensure reliable heating.
Jenison Field House
Looking southeast at Kalamazoo Street
Looking toward Jenison, before striping
Construction representative:
Andy Linebaugh
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517-432-7103

Parking - Lot 67 (Jenison) - Reconstruction
August 2013

Parking- Lot 67 (Jenison) - Reconstruction

Project phase: Construction

Parking Lot 67 was originally constructed with Jenison Field House in 1940. Other than minor redesign to address barrier-free issues and access to the Kellogg Center parking ramp, it has remained substantially unchanged. The pavement has outlived its useful life and does not meet current pavement system design standards. In addition, irrigation lines located underneath the parking lot have deteriorated and are failing, and the water supply line for fire suppression to Jenison no longer meets fire code.

Parking Lot 67 is adjacent to the west and north sides of the Jenison Field House in the Athletic and Recreation District. This project involves redesign and reconstruction of the parking lot to meet current standards for safety, storm water management and pavement. The project will address the failed irrigation lines, extend the water supply to a new fire hydrant to meet current fire code, install LED lighting and address accessibility requirements related to Jenison Field House entrances. The project also includes restoration of the parking lot's service drive. The service drive provides access to the adjacent athletic fields and will

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Project updates:
- Project currently 85 percent complete with demolition
- Starting mechanic rough-ins in restrooms
- Roof and site work ongoing
- Project is on schedule
- Butterfield loop open to one-way traffic for student move-in Aug. 21 to Aug. 26
Rendering of completed Butterfield Hall
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Construction representative:
Nick Wilk
nwilk@ipf.msu.edu
517-353-8619
Project updates:
- Currently finish carpentry along with painting, and flooring
- 90 percent complete
- Will be substantially complete at the end of the month
- Project is on schedule
Construction representative:
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Project area
North view – schematic design rendering
Why?

• Provide an all-sports recruitment facility, campus-wide media center and new football locker rooms and support spaces.
• This project includes:
  • A 55,000 square feet two-level addition,
  • adding recruiting rooms to the concourse level,
  • building new locker rooms and team spaces,
  • creating media center on the lower level of the addition,
  • adding future restrooms on the concourse level,
  • adding donor plazas at J and K gates,
  • renovating gates to comply with Homeland Security requirements.
Project updates:

- Construction began July 9
- Working on under pinning of existing stadium footings
- Working on underground site utilities
- Temporary access to tunnel restricted to public. Public will have an alternate entrance
- Construction will continue through the football season
Construction representative:
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517-432-2675
Harrison Road crosswalk work:

• On Monday, Aug. 12, construction project to upgrade Harrison Road crosswalk between Kellogg Center and Brody Complex will begin.

• **Project includes:**
  - ADA upgrades to existing crosswalk system
  - Replacement of traffic signals and equipment
  - Sidewalk improvements
  - Installation of new reflective bollards
  - Painting of existing signal support poles

• Project will require temporary crosswalk with a pedestrian detour and lane closures on both sides of Harrison Road.

• Scheduled to be completed Aug. 16
Harrison Road crosswalk between Kellogg Center and Brody Complex
August 2013

Pedestrian and vehicular detour plan
Rendering of main dining looking west
Project updates:

• Currently in major demolition and abatement phase.
• Dining area has been completed.
• All other demolition to be completed week of Aug. 12.
• Demolition for new community restroom/shower facility currently taking place.
• Structural steel for bracing in existing dining hall starting this week.
• Phase 1 of site flat work underway (walks and snowmelt) to be completed by Aug. 16.
• Construction fence to be moved back on Aug. 16 to allow access to Campbell Hall. Loading dock access will be maintained.
• Chimneys currently being reworked.
• Landon’s dining hall fireplace is a part of the historic preservation project.
Reworking chimney

Site flatwork
Landon Hall – Dining Renovation, Building Life Safety and Accessibility
August 2013

Construction representative:
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Public input sought

- MDOT invites the public to review and comment on the 2014-2017 draft for the State Transportation Improvement Program (STIP).
- STIP is a federally required planning document that lists road, bridge and transit projects.
- The draft of the document is available through Sept. 4 at www.michigan.gov/stip
New IPF website

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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

- Sept. 12 (Brody Hall, Room 112)
- Oct. 10 (Brody Hall, Room 112)
- Nov. 14 (Brody Hall, Room 112)

Please sign in and take a survey before you go!