CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES
Thursday, June 13, 2013

Twitter hash tag #msuconstruction
Today’s agenda

• Board of Trustee updates
• Special guests
  • Michigan Department of Transportation – Michigan Avenue/Grand River Avenue construction
• Progress updates
  • Roadway asphalt repairs across campus
  • Morrill Hall Demolition
  • Auditorium – Alterations to Fairchild Theatre
  • MSU Union – North Neighborhood Engagement Center and Multicultural Center
  • West Circle Steam Loop Segment 2 (2013)
  • Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs
  • Parking Lot 67 (Jenison) Reconstruction
  • Brody Neighborhood – Utility Improvements – Phase V
  • Armstrong and Bryan Halls Renovations
Step 1: Authorization to Plan

- Chittenden Hall – Renovation
- Munn Field – Artificial Turf Field

Step 2: Authorization to Proceed

- Spartan Stadium – North End Zone Addition
- Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
- Administration Building – Second Floor Renovations
- Former Michigan State Police Post – Renovations to Buildings G and H
- 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
MDOT update
LANSING
TRANSPORTATION
SERVICE CENTER
GRAND RIVER AVE (M-43) AND MICHIGAN AVE (M-143)

- 4.19 mi of hot mix asphalt cold milling and resurfacing, joint and crack repairs, concrete pavement, sidewalk, ramps, and curb and gutter, non-motorized pathway, drainage, traffic signals, water main, and pavement markings

- Limits - Grand River Ave. from Coolidge Road to Park Lake Road, and Michigan Ave. from the west city limits to Grand River Ave. in the city of East Lansing
GRAND RIVER AVE AND MICHIGAN AVE

- Cost $6.6 million
- Reconstruct and add indirect left turn at Beal St. and Harrison
- Mill & fill and rehabilitation
- Anticipated fix life
  - 5-10 years on Michigan Ave
  - 8-15 years on Grand River/M-43
- Start March 2013
- Complete October 2013
- Multiple interim completion dates to minimize impacts
PROJECT OVERVIEW

Stage I March to July
- A single lane in each direction shall be maintained on M-43 (Grand River) and Michigan Ave at all times.
- Consists of constructing the proposed turn arounds on Michigan Ave between Harrison Rd and Grand River Ave.
- Alignment of the Beal Street intersection.
- Sidewalk ADA updates

Stage II March to August
- Maintain a minimum of one lane in each direction at all times. Majority of the time 2 lanes in each direction will be maintained.
- Driveway upgrades, water main, pedestrian path improvements, joint repairs, milling and resurfacing.

Stage III May to August
- Close single lane in each direction to complete curb, sidewalk and ADA improvements.
- Cross traffic over to mill and resurface. (20 days)

Stage IV Complete by October
- Maintain a minimum of one lane in each direction at all times. Pedestrian path to Brookfield Dr, sidewalk ADA improvements, driveway work, joint repairs, milling and resurfacing.

Median Crossover Reconstruction, Beal Street realignment, intersection improvements at Harrison Road.
Median Crossover Reconstruction, Beol Street realignment, Intersection improvements at Harrison Road.
STAGE I

- Grand River Ave. (M-43) and Michigan Ave. (M-143)

- Traffic:
  - Maintain at least one lane in each direction at all times on both routes.

- Status Update:
  - ADA upgrades and Asphalt resurfacing on Grand River complete from Coolidge Road to Michigan Ave
  - ADA upgrades and Asphalt resurfacing on Michigan Avenue complete from East Lansing City limit to Harrison
  - Beal Street realigned approach constructed and complete.

- Schedule for Remaining Work: Completion date: June 28, 2013
  - Continue constructing the Michigan Ave median between Harrison and Delta
  - Resurface Michigan Avenue from Harrison to Grand River
STAGE I GRAND RIVER
STAGE I - BEAL STREET
BEAL STREET REALIGNMENT
BEAL STREET REALIGNMENT
STAGE II
STAGE II

- Grand River Ave. (M-43) from Michigan Ave. (M-143) to Bogue St.

- Traffic:
  - Utilizing crossovers at each end of this stage, cross traffic over to mill and resurface while maintaining one lane in each direction on the same side of M-43.

- Status Update:
  - ADA upgrades nearly complete. Still working on brick pavers.
  - 5 ½ inch Asphalt resurfacing complete on eastbound Grand River from Michigan Avenue to just west of Bogue.

- Schedule for Remaining Work: Original completion date August 9, 2013 with 26 days for paving.
  - Complete 5 ½ Asphalt mill and resurfacing on westbound Grand River.
  - Complete remaining brick paver placement at ADA ramps.
STAGE II
STAGE III AND IV

8' Path on both sides of M-43.
STAGE III AND IV

- Grand River Ave. (M-43) from Bogue St. to Park Lake Road
- Traffic:
  - Maintain at least one lane in each direction at all times.
- Status Update:
  - 8 ft non-motorized path, ADA upgrades and driveway work nearly complete along eastbound Grand River from Bogue to Hagadorn.
  - Currently working on non-motorized path, ADA upgrades and driveways east of Hagadorn on eastbound Grand River.
  - Currently working on 400ft of new water main along westbound Grand River between Stoddard Ave. and Spartan Avenue.
NON-MOTORIZED PATH
NON-MOTORIZED PATH
NON-MOTORIZED PATH
STAGE III AND IV

Schedule for Remaining Work:

- Stage III, Bogue to Hagadorn: Completion date August 9, 2013
  - Possible $150,000.00 incentive
    - Complete 8 ft non-motorized path, ADA upgrades, and driveways along westbound Grand River.
    - Complete placement of watermain
    - 3 ½” Asphalt milling and resurfacing with joint repairs.

- Stage IV, Hagadorn to Park Lake Road: Completion date October 4, 2013
  - Complete ADA upgrades and minor drainage repairs.
  - 3 ½” Asphalt milling and resurfacing with joint repairs.
In 2013, the Michigan Department of Transportation (MDOT) will invest more than $25 million on four busy corridors in the Greater Lansing and East Lansing areas. Significant improvements are planned along I-496, US-127, M-43 (Grand River Avenue) and M-99 (Martin Luther King Jr. Boulevard). Overall, construction involves work on 39 bridges, repairs to 9 miles of highway, installation of intelligent transportation cameras and message boards, traffic signal modernization, and enhancement projects.

- **I-496** – Bridge Work
- **M-99** (Martin Luther King Jr. Boulevard) – Road Work
- **US-127** – Bridge Work
- **S.B. US-127** – Auxiliary Lanes
- **M-43** (Grand River Avenue) and Michigan Avenue – Road Work
QUESTIONS?

Greg Losch MDOT Construction Engineer 517-335-3770
Loschg@michigan.gov
Roadway Asphalt Repairs
June 22-23 Weather permitting

Location 1: Service Road – westbound north lane
Location 2: Service Road – eastbound and westbound lanes
Location 3: Hubbard Road – exit drive at Hagadorn Road
Location 4: Red Cedar Road – southbound at MSU Police
Location 5: Trowbridge Road – westbound north lane – south of MSU Police
Roadway Asphalt Repairs
June 22-23

Location 6: Westbound Shaw Lane – north lane
Roadway Asphalt Repairs
June 22-23

Location 7: Auditorium Road – northbound west lane and southbound east lane
Location 8: Westbound Shaw Lane – north lane (north of practice field)
Roadway Asphalt Repairs
June 22-23

Location 9: Northbound and southbound Physics Road west of Snyder Hall
Location 10: Northbound and southbound Auditorium Road – north of MSU Auditorium
Why?

- Built in 1900, it has outlived its usefulness. The building has structural issues, high heating costs and is too expensive to maintain for the amount of useable space it provides.
- The work scope currently involves:
  - abatement and salvage (complete)
  - demolition (50% complete)
  - site restoration (July)
  - commemorative terrace (August)
    - MSU installation of terrace masonry and landscaping (September)
Impacts/timeline:

- Salvage and abatement completed: May 2013
- Demolition started: June 2013
- Site restoration complete: July 2013
- Completion date for commemorative terrace: September 2013
- Sidewalks surrounding Morrill Hall are closed
  - Pedestrian traffic routed to the south side of East and West Circle Drives
- No motorist detours. West Circle Drive remains open. Minimal temporary lane closures may occur for material removal.
  - Trucking removal of waste begins June 15
- Other notables:
  - Dust-mitigation being practiced
  - Due to the nature of demolition projects, there will be noise
  - Goal: 70% of the demolition materials to be recycled and/or salvaged
Commemorative terrace

PROPOSED LANDSCAPE WALKWAY THROUGH MORRILL PLAZA
Demolition progress: June 3, 2013 (Salvaged all of the special stone used on the building)
Demolition progress: June 5, 2013
Demolition progress: June 7, 2013
Demolition progress: June 10, 2013
Demolition progress: June 12, 2013
Memorabilia sale

- Items from Morrill Hall such as desks, lamps, tables and chairs may be purchased through the MSU Surplus Store
- 1,000 bricks will be sold
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
517-355-1628

Morrill Hall - Demolition

In-Construction
April 2013 - September 2013

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.

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 1900, would not be economically feasible.

The replacement of Morrill Hall offered the university a unique opportunity to significantly upgrade the quality of space for its former occupants, and to achieve a more efficient use of space through effective design and allocation: The award-winning addition to Wells Hall was completed in August 2012 and renovations to Old Horticulture were completed in December 2012.

Originally opened in 1900, 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 110 years, Morrill Hall has served MSU well, originally as a women’s residence hall.

Scope of work:
The demolition of Morrill Hall will occur between May and September 2013. The work scope involves demolition of the structure, site-restoration with lawn, sidewalks, benches and commemorative
Auditorium – Alterations to Fairchild Theatre

Fairchild Theatre
Why?

• The 560-seat Fairchild Theatre, located within the auditorium at the intersection of Farm Lane and Auditorium Road, provides an adequately sized facility, but has limited effectiveness as a music venue due to the lack of an orchestra pit and proper acoustics.

• This project includes:
  • installation of an orchestra pit with a lift system;
  • an orchestra shell with acoustical upgrades;
  • relocation of the scene shop dressing room and prop storage room;
  • renovation of existing, and construction of additional restrooms;
  • barrier-free accessibility will expand access to the lower level of the building; Arena Theatre, upper balcony seating and second-and third-floor offices;
  • installation of an elevator.
Project impacts:

- Some site work will impact accessibility to Summer Circle theatre performances. Signage is in place to direct patrons to events.
- Construction work along the south side of the building will have periodic impact on the kiln area for the Kresge Art Center.
  - These impacts will be short in duration and will be coordinated in advance with the associated departments.
Auditorium – Alterations to Fairchild Theatre
June 2013

For time lapse video: http://webcams.christmanco.com/
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355

Auditorium - Alterations to Fairchild Theatre

In-Construction
September 2012 - October 2013

Description: The College of Music has had a longstanding need for an additional and acoustically appropriate venue to accommodate its numerous rehearsals, performances, classes and musical productions. The 560-seat Fairchild Theatre, located within the Auditorium at the intersection of Farm Lane and Auditorium Road, provides an adequately sized facility, but has limited effectiveness as a music venue due to the lack of an orchestra pit and proper acoustics. Alterations to Fairchild Theatre and related spaces will enable improved and full use of this currently underutilized facility.

This project also includes the relocation of the Department of Theatre’s scene shop, which is necessitated by the renovations to Fairchild Theatre. Programatically, it will allow for the consolidation of the Music and Theatre scene shop needs and provide improvement of the scene shop working environment.

This project is anticipated to include:

- Installation of an orchestra pit with a lift system
- An orchestra shell with acoustical upgrades
- Relocation of the scene shop dressing room and prop storage room
- Renovation of existing, and construction of additional restrooms
- Barrier-free accessibility will expand access to the lower level of the building, Arena Theatre, upper balcony seating and second- and third-floor offices
- Installation of elevator

Questions, comments, concerns?
Project scope:

• Upgrades to ground, second, and third floors
• Upgrades include:
  o HVAC, lighting, flooring, fire alarm and fire suppression, barrier-free ramps;
  o new restroom configurations;
  o multicultural center, engagement center, University Activities Board, classroom renovations;
  o new furniture for renovated spaces;
  o new building signage.
Scope of work plans

Second Floor

Legend
- Circulation
- Multicultural
- Engagement

Ground Floor

Legend
- Circulation
- Classroom
- Engagement
- Support
Ground floor: Classroom of the future overhead view
Ground floor: Classroom of the future
Ground floor: Instructional classroom overhead
Ground floor: Instructional classroom
Ground floor: University Activities Board reception
Ground floor: Resource room
Overhead view of ground-level lounge
Green room for creative studio concepts
Ground floor progress
Second floor: Overhead view into multicultural center
Second floor: Engagement room entrance
Second floor: Multi-purpose room
Temporary wall was built to make area presentable for special events
Third floor plan
Third floor: Superior room
Third floor: Huron room
Third floor: Ontario room
Project impacts:

• Ground level of Union will be closed
• Second floor south wing of Union will be closed
• Third floor meeting rooms will be offline
• Demolition and rework of project will cause noise throughout the building
• Loading dock is also closed
Construction representative:
Nick Wilk
nwilk@ipf.msu.edu
517-353-8619
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 the Kalamazoo Street bridge east to MSU Library.
  • Northbound campus traffic will be directed to Farm Lane to access north campus.
  • Beal Street and Kalamazoo Street opened to traffic June 12. Bridge is open by Sparty Statue.
  • West Circle open to Beal Street, Beal Street open to Michigan Avenue for eastbound traffic only.
    • MDOT will close the Beal Street/Michigan Avenue intersection starting Friday, June 14. It will reopen sometime the week of June 17.

• Two-way traffic maintained from Auditorium Road to the MSU Library so that the MSU Museum, MSU Library and Olds Hall are accessible.

• 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

Visit construction.msu.edu for updates
Timeline:

• Construction started: January 2013
  • Multiple phases: check construction.msu.edu for updates
• Substantial completion: Aug. 16
Overhead view of West Circle
West Circle “mud mat”
2013 STEAM SYSTEM REPAIRS

PHASE 1: JANUARY - APRIL
- Lane restrictions on Bogue Street, Shaw Lane and West Circle Drive.
- No roads closed.
- Noisy work will be suspended during exam week and commencements; April 19-May 5.
- All lanes will be open for move-out, May 4.
- Demolition on Beal Street entrance, resulting in road closure. (MDOT project)

PHASE 2: MAY 5 - JUNE
- Closure at Beal Street and Kalamazoo Street intersection.
- Temporary access drive to Music Building.
- Closure at Bogue Street and Shaw Lane intersection.

PHASE 3: LATE JUNE - AUGUST
- Beal Street reopens.
- Beal Street and Kalamazoo Street intersection reopens.
- Closure at Bogue Street and Shaw Lane intersection.
- West Circle Drive closed from E. Grand River Avenue to the Kalamazoo Street intersection.
- Temporary two-way traffic on Auditorium Road to the NE.
- West Circle Drive, Bogue Street and Shaw Lane will reopen for move-out.

For the most updated information and detour maps, visit: construction.msu.edu/westcircle2013 and construction.msu.edu/bo}

PHYSICAL PLANT DIVISION

Summer 2013 construction impact
West Circle and Bogue Street/Shaw Lane
Steam System and Road Reconstruction – West Circle Steam Loop 2013 (Segment 2 of 4)
June 2013

CONSTRUCTION.MSU.EDU

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

MSU Construction

West Circle Steam Loop Segment 2 (2013)

In-Construction
January 2013 - August 2013

Description: 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.

Construction details:
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
View of steam tunnel excavation
Steam System and Road Reconstruction – Bogue Street and Shaw Lane Intersection
June 2013

Newly poured steam tunnel floor onto “mud mat”
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Why?

• To meet:
  • safety requirements
  • storm water management standards
  • pavement standards

• The project will:
  • address 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.
Impacts/timeline:

• Closures:
  • Parking lot: Complete closure of Lot 67 from May 6 until mid-August.
  • Driveway to ramp: Temporary closure of south driveway to Kellogg Center parking ramp expected.
  • Loading dock: Jenison Field House dock closed duration of project.

• Temporary pedestrian sidewalk detour:
  • Pedestrians will use south side of Kalamazoo Street.

• Access maintained to:
  • Jenison Field House for pedestrians
  • Parking loop on the east side of Jenison Field House
  • Red Cedar Greenway for pedestrians and bikers
Pavement preparation
New sidewalk being installed
Parking - Lot 67 (Jenison) - Reconstruction

Description: 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 service drive. The service drive provides access to the adjacent athletic fields and will involve installation of a short section of the Red Cedar Greenway bicycle path.
Why?

- Need to update: Utility infrastructure was installed in the 1950s when the complex was originally built.
- Project involves:
  - replacing the steam and condensate distribution system
  - creating a loop from the Harrison Road bridge to Brody Hall
- This is the fifth and final phase of major infrastructure projects in the Brody Neighborhood.
Impacts: Brody utilities and Butterfield Hall

Closed to all traffic until June 2014. Access will be maintained during student move-in and move-out.

Barrier-free access to IM Sports Circle at southeast entrance.

Lot 67 closed until mid-August.
Impacts:

- Driveway closure on the east and south side of Emmons Hall
  - East side slated to reopen week of June 17, weather permitting
- Pedestrian detours in place
- Only access to Brody Neighborhood is from Michigan Avenue
- Steam and condensate shutdowns to Bailey Hall and Emmons Hall
  - End of July: Date TBD. Will affect Bailey Hall
    - Building heat will be affected
    - Domestic hot water will be available for a limited occupant load during this shutdown
Timeline:

- Construction started: February 2013
- Substantial completion: August 2013
  - building will be ready for occupancy
  - roads will be re-opened
  - steam and condensate will be operating
- Work after substantial completion:
  - finishing touches to landscape
Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
517-432-2675
Armstrong/Bryan Halls Renovations

Armstrong/Bryan Halls
Project details:
• Project status: Substantially completed May 2013
• LEED status: 78% of demolition material was recycled
• All parking and sidewalks around these two halls are now open
• Volleyball court completed
• Residential and Hospitality Services are currently moving in furniture
• Site restoration is ongoing (wet spring)
• Both buildings are now ADA accessible
• New bike loops are currently being installed
Bryan Hall: Artwork featuring painted wood pieces.
Bryan Hall: Color-coded floors
Bryan Hall: Finished fourth-floor restroom
Bryan Hall: Fourth-floor gaming station
Armstrong Hall: Artwork and new atrium
Armstrong Hall: Full kitchen
Armstrong Hall: Fourth-floor gaming station
Construction representative:
Ken Gottschalk
kjgottsc@ipf.msu.edu
517-353-7234
Summer 2013 Red Water Alert

- Construction, maintenance activity may cause water discoloration throughout the summer
- Check for times of heightened alert due to specific activities at:

  ipf.msu.edu/redwater
Stay connected via social media

New names to represent new IPF unit!

For updates on all things IPF follow MSUfacilities on twitter and become a fan of our facebook page – MSUFacilities. Also, check out our YouTube page at youtube.com/physicalplantmsu (name change coming soon) 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

Summer meetings (June-August) will be held in 147 Communication Arts and Sciences Building

- July 11
- August 8

Please sign in and take a survey before you go!