CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES
Thursday, July 11, 2013

Twitter hash tag #msuconstruction
Today’s agenda

• Board of Trustee updates
• New presentations
  • Amtrak Station – Redevelopment Study
  • Spartan Marching Band – Artificial Turf Field
  • Olin Health Center – Chiller Replacement
  • Clinical Center – C-Wing HVAC Renovation and Procedure Space Addition No. 1
• Progress updates
  • City of East Lansing (Kalamazoo Street)
  • Parking Ramps 5 and 6 – Bike Storage Enclosures
  • Parking Ramps 2 and 3 – Restoration (2013)
  • Morrill Hall Demolition
  • West Circle Steam Loop Segment 2 (2013)
  • Bogue Street and Shaw Lane Intersection – Reconstruction and Steam System Repairs
  • Parking Lot 67 (Jenison) Reconstruction
Step 2: Authorization to Proceed

• Olin Health Center – Chiller Replacement
• Spartan Marching Band – Artificial Turf Field

Step 3: Bid and Contract Award

• Well House No. 32 – New Campus Well
• Administration Building – Second Floor Renovations
• Michigan State Police Post – Buildings G and H Renovations
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 priorities:

- Visible
- Inviting
- Safe
- Catalyst for redevelopment
- Sustainable
- Durable
- Light/open/well-lit
- Intuitive
Project scope:

- Demolish four buildings including the old printing building and the existing Amtrak station
- Do environmental clean-up on site
- Utility relocation and hookup
- Build new CATA Multi Modal Station
  - 6,000-9,000 square feet
- Build new parking facilities – approximately 150 spaces
- Provide for intercity bus boarding area
- Provide pedestrian and bike access
Impacts/timeline:

• Demolition anticipated to begin in August 2013
• Temporary facility in place in August 2013
• Design is underway
• Anticipated construction beginning January 2014
• Target opening August 2014
Project components:

- Train boarding platform canopy
- Intercity bus boarding area and canopy
- Customer drop-off/pick-up area
- On-site parking
- Public waiting area with restrooms and concessions
- Waiting area seating
- Enclosed waiting shelters
- Amtrak ticketing and baggage processing area
- Intercity bus ticketing and baggage processing area
- Multi-use gathering space
- Employee work areas
- Pedestrian access
- Bike storage and access
- Way-finding signage
- Street signage
MULTI-MODAL STATION

EAST LANSING, MICHIGAN

CONCEPT PLAN D.2

DATE: 5-8-13

NORTH SCALE: 1” = 40’

Prepared for the Capital Area Transportation Authority
Spartan Marching Band – Artificial Turf Field
Project partners:

• Spartan Marching Band

• Recreational Sports and Fitness Services

• MSU Athletics
Project scope:

• Artificial turf field:
  • Drainage system
  • Infill system comprised of recycled tires
  • Surfacing with logo

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

• Construction will begin 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
Location map

Spartan Marching Band – Artificial Turf Field
Field layout
Proposed 32-foot band tower
Design representative:  
Deb Kinney  
kinney@ipf.msu.edu  
517-432-0324

Spartan Marching Band – Artificial Turf Field

Athletic Fields- Munn Field- Artificial Turf Field

Project phase: Planning/Design

The Spartan Marching Band (an MSU class) requires a dependable, safe, and available football field surface for band practice in the fall of each year and a lighted field would provide increased safety. The Band currently practices at Demonstration Hall Field, but the location continues to be problematic because of the maintenance requirements and irrigation issues associated with a grass field. An artificial turf field would provide a safer and superior surface for the Band. Intramural sports activities and other summer sports camps could also utilize the space.

The planning of this project is anticipated to include constructing a lighted regulation-size football artificial turf field. The field would have an anticipated useful life of approximately 15 years. The project would also include an underground drain system, band tower, spectator seating, fencing and gates, underground utility work, equipment relocations, and site restoration. The field would be scheduled by intramural sports and summer sports camps for other activities when not in use by the Spartan Marching Band.
Olin Health Center – Chiller Replacement
Olin Health Center – Chiller Replacement
Objectives:
• Replace aging equipment at the end of its useful service life.
• Re-organize the chiller plant for ease of service and efficient use of resources.
• Provide an energy-efficient system for a mission-critical facility.
• Replace additional high-risk, mission-critical building systems.

Timeline:
• Construction begins October 2013
• Substantial completion set for April 1st 2014
**Work scope:**

- Chiller plant replacement:
  - Demolition of equipment in the building.
  - Demolition of existing cooling tower and enclosure.
  - New equipment, piping, pumps, and a new aesthetic enclosure.

- Additional “Just-In-Time (JIT)” considerations:
  - Water heater replacement
  - Electric generator and distribution gear
  - Steam equipment replacement (pressure-reducing valves, condensate pump)
Other considerations:

- Trees on north side if piping is to be replaced
- Ambulance access maintained throughout project
- Dust/debris control for clean, medical environment
- North campus aesthetic needs
Aerial view of Olin site – potential impacts

Current chiller location

New, proposed chiller location
Proposed equipment location
Design representative: Jacob Sabins
jsabins@ipf.msu.edu
517-355-6493
Objectives:
- Replace existing aged HVAC systems with more energy efficient systems
- Provide chilled water to facility year round
- Provide procedure space within Clinical Center for researchers.

Timeline:
- Construction will begin February 2014
South exposure Clinical C – loading dock
Clinical Center – C-Wing HVAC Renovation and Procedure Space Addition No. 1
Energy and sustainability:
· Energy-conservation measures (ECMs) include individual room temperature control, air-cuity system for demand-controlled ventilation, variable volume/constant plume roof mounted exhaust, ventilated rack exhaust connections for east half of second floor, steam and water smart meters (electrical smart meters by power plant), energy recovery on exhaust, heat recovery chiller.

Just-in-Time maintenance:
· Provide connection point for portable generator to power ULAR areas
· Replace air-handling units C1, C2 and associated return and exhaust fans
· Replace booster coils that serve animal rooms
· Replace heat exchanger and two water pumps
· Replace eight distribution and power panels in ULAR area

Safety and security:
· Update and replace current fire alarm system for the building under separate project done by IPF Maintenance Services.

Hazardous building materials review:
· The university hazardous materials report for this building has been obtained and will be referenced for design. The primary concerns are floor tiles and some pipe insulation. This material will be abated during construction.
Addition 1: Enclosing the overhang to provide more procedure space

Proposed infill materials to match existing
Floor plan of added procedure space
Clinical Center – C-Wing HVAC Renovation and Procedure Space Addition No. 1

View of rear parking lot at Clinical Center
Design representative:
Sue Hopper
shopper@ipf.msu.edu
517-353-3222

Clinical Center - C-Wing HVAC Renovation and Procedure Space Addition

Project phase: Planning/Design

The Clinical Center C-Wing was built in 1976 and the heating, ventilation, and air conditioning (HVAC) system is nearing the end of its useful life. The HVAC system also lacks redundancy for equipment failure or scheduled maintenance outages and cannot ensure optimal research results. The CCAF has been challenged in maintaining proper temperatures and would benefit from updated central environmental monitoring and alarming of the animal environment to ensure rapid response to problems.

This project is anticipated to include a new HVAC system designed to control and maintain the proper temperature, differential pressure, humidity and outdoor air exchange rate at the room level. The upgrades will add redundancies to ensure continuous operation during equipment failure and scheduled maintenance to ensure optimal research results.

The Clinical Center is located on Service Road in the South Academic District.

Questions, comments, concerns?
City of East Lansing
Kalamazoo Street

Bob Scheuerman
517.319.6934

www.cityofeastlansing.com/construction
Kalamazoo Street – Infrastructure Improvements

- Now scheduled to open Kalamazoo to traffic Aug. 29 – the day before the first football game.
Bike garages
Why?

- To allow the public/students to ride bikes on campus without worrying about weather, theft or vandalism.
- Bike fixit stations installed for bikes that need to be fixed immediately.

Impacts/timeline:

- Job is complete. No impacts taking place.
Door to the Trowbridge/Comm Arts Ramp (Ramp 5) parking facility
Inside the Trowbridge Ramp parking facility
Detail of MSU Bike Garage South in the Trowbridge Parking Ramp lobby area
View from a corner of the Trowbridge Parking Ramp bike-parking facility
View from inside the bus waiting area of the lobby next to the Trowbridge Ramp parking facility
Inside the Grand River Ramp (Ramp 6) parking facility looking toward entrance
Parking Ramps 5 and 6 – Bike Storage Enclosures
July 2013

Detail of MSU Bike Garage North in the Grand River Parking Ramp
DIY Dero Fixit Station
Parking Ramps 2 and 3 Restoration (2013)
July 2013

Parking ramps: Bessey (2) and Wharton (3)
Project scope for Bessey:

- Partial floor, wall and ceiling repairs
- Traffic coating repairs
- Metal cables inspection
- Tuck pointing, masonry restoration
- Stairway and tread repairs
- Miscellaneous architectural, electrical, and mechanical work

Wharton:

- All work to be done on the outside of the ramp.
Impacts/timeline:

• **Wharton Ramp work:** Now to July 22
  • This project will only impact the outside of the Wharton Ramp.
  • For two days the helix ramp will not be accessible from Shaw Lane. Access maintained from Wilson Road.

• **Bessey Ramp work:** July 29 to Aug. 5
  • All Bessey Ramp work is internal
  • Isolated parking space closures
  • All work is weather-dependent
  • Final construction must be complete by Aug. 23
Parking Ramps 2 and 3 Restoration (2013)
July 2013

Parking Ramp 3 (Wharton Ramp): Now through July 22
Parking Ramp 2 (Bessey Ramp): July 29 to Aug. 5

Construction representative: Sharon Joy
sljoy@ipf.msu.edu, 517-432-0165
Morrill Hall Demolition

Morrill Hall
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 (complete)
  • site restoration (July)
  • commemorative terrace (August)
    • MSU installation of terrace masonry and landscaping (September)
• **Impacts/timeline:**

  • Salvage and abatement completed: May 2013
  • Demolition completed: June 2013
  • Site restoration started: 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.
    • The majority of off-site trucking is complete.
  • Other notables:
    • Goal: 70% of the demolition materials to be recycled and/or salvaged
Commemorative terrace

PROPOSED LANDSCAPE WALKWAY THROUGH MORMILL PLAZA
Demolition progress: June 3, 2013 (Salvaged all of the special stone used on the building)
Demolition progress: June 10, 2013
Site restoration progress: Sorting recyclables
Site restoration progress: Filling activities
Site restoration progress: New view of Ramp 6
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
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 open to Michigan Avenue for eastbound and westbound traffic, per the new MDOT configuration.
- 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
Timeline:

- Construction started: January 2013
  - Multiple phases: check construction.msu.edu for updates
- Substantial completion: Aug. 16
Building steam vault 373 near music building
Working on steam tunnel slab from vault 373 to 375
Steam System and Road Reconstruction – West Circle Steam Loop 2013 (Segment 2 of 4)  
July 2013

Brochure, display board available

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**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 Stone Street intersection to the North Avenue.
- Temporary two-way traffic on Auditorium Road to the Library.
- West Circle Drive, Bogue Street, Shaw Lane will reopen for move-out.

*Dates and diagrams are subject to change.*
Construction representative:
Andy Linebaugh
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517-432-7103

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.
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
Roadway sub-base at Bogue/Shaw intersection (looking south)
Asphalt pavement (looking north on Bogue)
Steam System and Road Reconstruction – Bogue Street and Shaw Lane Intersection

July 2013

Brochure, display board available

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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 Bogue Street intersection to the North Tower.
- Temporary two-way traffic on Auditorium Road to the North Tower.
- 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/bogue.

Legend:
- BUILDINGS
- ROADS
- PARKING LOTS
- PEDESTRIAN DETOURS

Lot 12 and north Owen Hall entrance closed. Access to loading dock will be maintained.
Construction representative: Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Parking – Lot 67 (Jenison) – Reconstruction

Lot 67 (Jenison)
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.
Parking – Lot 67 (Jenison) – Reconstruction
July 2013

Jenison Field House
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.

• 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 prep (looking east behind Jenison Field House)
Storm water structure (sediment filtering basin)
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103

Parking - Lot 67 (Jenison) - Reconstruction
July 2013
New IPF website

- Alerts feed
- Construction
- Resources
- Much more!

www.ipf.msu.edu
Stay connected via social media

New names to represent new IPF unit!

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

• Aug. 8 (Comm Arts and Sciences, Room 147)
• Sept. 12 (Brody Hall, Room 112)
• Oct. 10 (Brody Hall, Room 112)

Please sign in and take a survey before you go!