Welcome to this special edition of Construction Junction!

ICE CREAM CONES AND CONSTRUCTION ZONES

2014 summer construction roundup
Thursday, April 10, 2014
MSU Union Ballroom

Please sign in and complete a survey!
Twitter hash tag #msuconstruction
With breakfast treats provided by:

spARTAN Signature Catering

Trivia contests with prizes from:

eat at state

Ice cream from the:

MSU Dairy Store

And more fantastic surprises!
And our special guest star
Goals of this special edition:

- Inform you of impending summer construction
  - What, why, when, how it will impact you, who to contact
- Focus on projects that are:
  - High profile (highly visible, new buildings, etc.)
  - High impact (may cause pedestrian, biker and/or motorist detours)
- Commiserate (we know construction brings challenges), have fun, eat ice cream
NEW-AND-IMPROVED SURVEYS!

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.
- What do you think of this special edition of CJ? Tell us!
- Thank you in advance!
Today’s agenda

- **Board of Trustee updates**
- **Project updates**
  - **Roads / parking lots / sidewalks**
    - Harrison Road Pavement Restoration
    - Parking – Lot 97 (Engineering Research) Expansion
    - Pathways – Red Cedar Greenway – Sparty to Farm Lane
    - Parking Ramp Nos. 1 – (Shaw Lane), 3 (Wharton Center), 5 (Communication Arts and Sciences) – Restoration 2014
    - Parking Ramp Nos. 2 (Auditorium) and 6 (Grand River) – Restoration 2014
  - **Athletics**
    - Spartan Marching Band – Artificial Turf Field
    - Munn Ice Arena – HVAC Upgrades and Ice Making System Replacement
    - Spartan Stadium – North End Zone Addition
  - **Buildings**
    - Bio Engineering Facility
    - Butterfield Hall – Renovation
    - Landon Hall – Dining Renovation, Building Life Safety and Accessibility
    - Akers Hall Dining and Life Safety Renovation
    - Clinical Center – C-wing HVAC Replacement
    - Facility For Rare Isotope Beams – Building Structure
    - Chittenden Hall – Renovation
  - **Infrastructure**
    - West Circle Housing Complex – Infrastructure Improvements – 2014 (Phase 2 of 2)
    - North Campus Infrastructure Improvements – West Circle Drive 2014 (Phase 3 of 4)
    - Holden, Hubbard and Owen Halls – Masonry Restoration
Step 1: Authorization to Plan

- Life Sciences – Renovations – A-Wing
- Plant and Soil Science – Horticulture Garden Welcome Center Study

Step 2: Authorization to Proceed

- Facility for Rare Isotope Beams – Building Structure
- Veterinary Teaching Hospital – Nursing Care Unit Renovation
- Parking Lot 97 – (Engineering Research) – Expansion

Step 3: Bid and Contract Award

- Bessey Hall – Renovate Third Floor Classroom Wing
Step 2: Authorization to Proceed
  • Kellogg Center – Replace Absorption Chilled Water System

Step 3: Bid and Contract Award
  • Parking – Lot 97 – (Engineering Research) Expansion
Roads, Parking lots and Sidewalks
Harrison Road Pavement Restoration

Project area
Construction area

Alternative #1
(2) NB and (2) SB Lanes
20155 Sq. Ft.
17800 Sq. Ft.

Alternative #2
(1) Center Turn Lane
7555 Sq. Ft.

Alternative #3
Acceleration and Deceleration Lane
4816 Sq. Ft.
Existing deteriorated pavement
Why?

• Milling and repaving of all lanes of traffic from the Red Cedar River bridge, north to approximately the loading dock of the Kellogg Center, is necessary due to winter damage and traffic wear.

Timeline:

• Start date: May 16
• End date: May 23
Impacts:

- One lane of northbound and one lane of southbound traffic will be maintained at all times throughout construction.
- Only one access point into the Kellogg Center parking area and drives will be maintained at times throughout the project.
- There will be closures to the drives into Brody Complex during this week of construction.
- Pedestrians will still be able to cross at the traffic light between Brody and Kellogg, but minor delays may occur during asphalt paving operation.
- We will make every effort to complete as much work at night to reduce the impact to traffic.
Project representative: Adam Lawver
lawver@ipf.msu.edu
517-884-2321
Why?

• Project will add 260 parking spaces (to the existing 201) near the new Bio Engineering Facility.

• Reconstruct lot to meet current standards for:
  o Safety
  o Accessibility
  o Storm water management
  o Lighting efficiency
  o Pavement

Impacts:

• Lot 97 will be closed during the construction period, except for access by Environmental Health and Safety vehicles.
  o Alternative parking may be available in Lot 92 (across Service Road, next to the Chilled Water Plant)

Timeline:

• Construction start: June 25
• Substantial completion: Oct. 3
Poor pavement condition
Overview of construction projects in area
Road closure and detour map

Detour map

- Detours
  - Vehicle
  - Pedestrian
- Roads
  - Closed
  - Lane Restriction
- Closed Areas

Filter By:
- Start/End Date
- Start Date: 07/01/2014
- End Date: 09/30/2014

Apply

Print Map

Parking Lot 97 – (Engineering Research) Expansion
Construction representative:
Nick Wilk
nwilk@ipf.msu.edu
517-353-8619

Parking Lot 97 (Engineering Research) Expansion

Project phase: Planning/Design

Parking Lot 97 was originally constructed with the Engineering Research Complex in 1969. When the Energy and Automotive Research Facility addition was constructed in 2007, a perimeter drive and additional parking were added, bringing the current lot capacity to 216 spaces. The pavement in the original parking lot has outlived its useful life and does not meet current pavement-system design standards. In addition, this zone of campus will need additional parking with the construction of the Bio Engineering Facility.

The planning of this project is anticipated to include more than doubling the lot’s capacity. It includes reconstruction to meet current standards for safety, accessibility, storm water management, and pavement. An evaluation of a photovoltaic (solar) array in the form of a carport structure is underway. Any deferred maintenance needs will also be reviewed as part of the planning process. It is anticipated that the design changes would make a material long-term change to the landscape.

This project is located south of Service Road and east of Bogue Street in the South Academic District. The location of this project is consistent with the Campus Master Plan.

Questions, comments, concerns?
Design representative

Dave Wilber, dwilber@ipf.msu.edu, 517-884-2186
Sprinkle in some trivia!

How many additional parking spaces will be created in Lot 97 (Engineering Research)?
Sprinkle in some trivia!

260
Why?

• Upgrade and improve the Red Cedar River Trail.
• Increase user capacity to include separately dedicated paths for pedestrians and bicyclist.
• Improve safety of the pathway for all users by improving the pavement and lighting.
• Provide an accessible route on the south side of the river, which meets ADA design standards.
• Project to be done in three phases. First phase begins at Sparty intersection and ends at Erickson Hall.

Timeline:
• Construction start: May 2014
• Substantial completion: August 2014
Impacts:

• Small parking lot west of the north wing of Wells Hall will be closed and used as a staging area.
• No road detours.
• Pedestrian detours will be minor and only related to construction at each phase of work.
• Sitting area at the dam south of the river across from the Admin Building will be closed for most of the construction period to make improvements.
Looking east near Wells Hall bridge
Erickson Hall looking east

Red Cedar River

Existing

Proposed
Construction detour plan (May 5 – June 1)

Pathways – Red Cedar Greenway – Sparty to Farm Lane
Construction detour plan (June 2 – July 7)
Construction detour plan (May 5 – Aug. 8)
Construction representative:
Sharon Joy
sljoy@ipf.msu.edu
517-432-0165

Pathways – Red Cedar Greenway – Sparty to Farm Lane

Project phase: Planning/Design

The Red Cedar River is a significant landmark of the Michigan State University campus. The river corridor is the main east-west non-motorized transportation corridor for MSU, serving about 56,000 students, faculty, and staff. The river corridor is being reconstructed according to the Red Cedar Greenway Master Plan, which will create a state-of-the-art non-motorized facility for the safe, efficient, and pleasant movement of people along the Red Cedar River.

Project Details
- Demolition of the existing walk and bike paths
- Limited curb and gutter work
- Construction of a combined bike and walking path
- Construction of new steps
- Earthwork
- Miscellaneous other minor construction

Timeline
Start of construction: May 2014
Parking Ramps No. 1 (Shaw), No. 3 (Wharton) and No. 5 (Comm Arts) – Restoration 2014

Project areas
Why?

• To extend the life, maintenance and operation of the parking structures.
• To enhance the safety and operation of the facilities.
• To apply traffic coating to surface.

Impacts:

• There will be some limited parking disruptions.
• Work will be done one floor at time to limit disruption.

Timeline:

• Construction start: May 12
• Completion: July 30
Project representative:
Sharon Joy
sljoy@ipf.msu.edu
517-432-0165

Parking Ramps No. 1, No. 3 and No. 5 - Restoration

Project phase: Planning/Design

There are a number of parking ramps on the MSU campus that serve the parking needs of students, faculty, staff, and visitors. These buildings need periodic maintenance. The following parking ramps are included in this project: Parking Ramp No. 1 (Shaw Lane), Parking Ramps No. 3 (Wharton Center) and Parking Ramp No. 5 (Trowbridge Road).

Project details
- Traffic coating repair.
- Expansion joint repair and replacement.
- Miscellaneous architectural, electrical and mechanical work.

Timeline
Start of Construction: May 2014
Project areas

Parking Ramps No. 2 (Auditorium) and No. 6 (Grand River) – Restoration 2014
Why?

• To perform routine testing and maintenance to validate the continued structural integrity of the parking structure.
• Concrete repairs and expansion joint repairs are needed.

Impacts:

• There will be some limited parking disruptions.
• Work will be done one floor at time to limit disruption.
• Ramp 6 parking bays will be affected, but not the driving lanes.

Timeline:

• Construction start: May 12
• Completion: July 30
Project representative:
Sharon Joy
sljoy@ipf.msu.edu
517-432-0165

Parking Ramps No. 2 (Auditorium) and No. 6 (Grand River) – Restoration 2014

Parking Ramps No. 2 and No. 6 - Restoration

Project phase: Planning/Design

There are a number of parking ramps on the MSU campus that serve the parking needs of students, faculty, staff, and visitors. These buildings need periodic maintenance. The following parking ramps are included in this project: Parking Ramp No. 2 (Auditorium Road) and Parking Ramp No. 6 (Grand River).

Project details

- Partial and full depth floor repair.
- Ceiling repairs.
- Traffic coating repair.
- Expansion joint repair and replacement.
- P/T repairs
- P/T tendon anchor inspection.
- Miscellaneous architectural, electrical and mechanical work.

Timeline

Start of Construction: May 2014
Athletics
Spartan Marching Band – Artificial Turf Field

Project area
Why?

- 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.

- 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 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.
Proposed 32-foot band tower
Construction detour plan (May 12 – Aug. 8)
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355
Sprinkle in some trivia!

The new band tower will stand how tall?
Sprinkle in some trivia!

32 feet
Why?

• 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. 15, 2014
Impacts:

• Periodic road impacts will occur over the duration of the project through August.
• Chestnut Road, depending on how the project progresses, may be closed for approximately 10 days in June.
• 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)

- Pedestrian Detour / Paths / Crosswalk
- Pedestrian Detour Signage
  - Flag persons to allow safe truck access to project site, maintain traffic on Chestnut, maintain access to loading dock for periodic deliveries
- Temporary Fence
- Stone Pad with CM trailer, limited parking, laydown
- Short-term contractor parking, laydown, staging

East exit of Munn Closed
Rendering of northeast corner
Rendering of east elevation
Construction detour plan (April 1 – May 31)
Construction detour plan (June 1 – June 15)
Construction detour plan (June 16 – Aug. 16)
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 includes the replacement of the HVAC system, including the ice plant, to improve energy efficiency and system reliability.
North view – schematic design rendering
Why?

- To 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.
Impacts:
• Red Cedar Road closure: May 12, 2014 – May 23, 2014
• Stadium loading dock closure: April 28, 2014 – May 16, 2014
• Various pedestrian detours

Timeline:
• Construction start: July 2013
• Substantial completion: August 2014
Northeast elevation
Northwest elevation
Spartan Stadium – North End Zone Addition

Construction detour plan (May 5 – May 12)
Spartan Stadium – North End Zone Addition

Construction detour plan (May 12 – May 23)
Spartan Stadium – North End Zone Addition

Construction detour plan (May 23 – Aug. 16)
Construction Representative: Jason Van Zee
jvanzee@ipf.msu.edu
517-432-2675

Spartan Stadium – North End Zone Addition

Project phase: Construction

This project adds a two-level addition to the north end of Spartan Stadium. It includes an all-sports recruitment facility, campuswide media center, new football locker rooms and team spaces, support spaces, media rooms, additional restrooms, concessions, donor plazas at J and K gates, and renovated gates to enhance safety and security.

Spartan Stadium is located between Shaw Lane, Chestnut Road and Red Cedar Road in the Athletic and Recreation District.
Buildings
Why?

- This project involves a four-story research lab building that is designed to facilitate interdisciplinary research and interaction amongst all occupants, and the sharing of specialized research equipment (such as imaging).
- 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:

- Southeast doors on Life Science Building will be closed until Friday, April 18, to construct the pedestrian bridge between Life Science and the Bio Engineering Facility.
View of steel erection looking north
Final phase of steel erection showing where the connector bridge will be installed
Construction detour plan (Sept. 27, 2013 – Aug. 31, 2015)
Construction representative:  
Ken Gottschalk  
kjgottsc@ipf.msu.edu  
517-353-7234
Sprinkle in some trivia!

Which two buildings will be connected by the Bio Engineering Facility?
Sprinkle in some trivia!

Clinical Center C-Wing and
Life Science B-Wing
Why?

- This project includes all major mechanical, electrical, and ventilation upgrades and replacement; as well as:
  - addition of life-safety systems and ADA code-required modifications
  - interior renovations to common spaces and resident bathrooms
  - asbestos abatement
  - lighting upgrades
  - flooring and ceiling replacement
  - roofing and exterior repair, including window replacement and balcony removal
  - reception desk modifications
  - other related improvements

Timeline:

- Construction start: March 2013
- Substantial completion: June 2014
Impacts:

• Butterfield Hall will be completely closed until May 30, 2014.
• The northeast corner of the Brody parking loop is closed for through traffic until May 30, 2014.
• Brody parking loop will be open for resident move-out.
Nine new single-resident rooms
All new glass on the core of the building, north elevation
Newly renovated restrooms
Construction detour plan (May 3 – June 1)
Butterfield Hall – Renovation

Construction representative:
Nick Wilk
nwilk@ipf.msu.edu
517-353-8619

Butterfield Hall Renovation

Project phase: Construction

The Residential and Hospitality Services Strategic Plan calls for the renovation of all Brody Neighborhood residence halls in order to create a desirable place for students to live and learn. Butterfield Hall is the sixth and final Brody Neighborhood residence hall to undergo renovations as part of this plan.

The project includes:
- Major mechanical, electrical and ventilation upgrades and replacements
- Additional features planned
Why?

• To provide a new dining facility for the West Circle Neighborhood.
• To perform major repairs to the infrastructure for electrical, mechanical and plumbing.
• To create new community bathrooms on each floor.
• To replace windows throughout.

Timeline:

• Construction start: May 2013
• Substantial completion: July 2014
Impacts:

• Building is closed duration of project.
• Loading dock/Landon Hall parking lot will remain closed along with the parking loop until July 3, 2014.
Landon Hall – Dining Renovation, Building Life Safety and Accessibility

Construction detour plan (May 7 – July 3)
Construction representative:
Tony Rhodes
arhodes@ipf.msu.edu
517-432-7104
Why?

• Building was constructed in 1964, and is in need of major repairs to the infrastructure for electrical, mechanical, plumbing and life safety.
• Will provide a new dining facility for East Neighborhood.
• Will provide new active/quiet study lounges.

Impacts:

• Akers Road will be closed north of Akers Hall from May 12 through Aug. 12.
• Maintenance/recycling vehicles will have continued access.
• Loading dock/parking lot will be closed May 12 through Jan. 1, 2015.
Timeline:

- Construction start (Phases 1 and 2): December 2013
- Substantial completion of Phase 1 (student towers): Aug. 1, 2014
- Substantial completion of Phase 2 (dining venue): Jan. 1, 2015
Dining hall renovations
Akers Hall – Dining and Life Safety Renovation

Dining-hall floor plan with two interactive serving islands incorporated into seating areas
Construction representative:
Tony Rhodes
arhodes@ipf.msu.edu
517-432-7104
Sprinkle in some trivia!

In what year was Akers Hall built?
Sprinkle in some trivia!

1964
Clinical Center – C-Wing HVAC Replacement
Why?
• To replace existing aged HVAC systems with more energy-efficient systems.
• To provide chilled water to the facility year round.
• To provide procedure space within Clinical Center for researchers.

Impacts:
• Area immediately behind the Clinical Center Animal Quarters Wing (C-Wing) will be fenced.
• Parking spaces adjacent to the C-Wing loading dock will be unavailable.

Timeline:
• Construction start: March 2014
• Substantial completion: December 2014
South exposure Clinical C – loading dock
Addition 1: Enclosing the overhang to provide more procedure space

Proposed infill materials to match existing
Construction detour plan (March 1 – Dec. 31)
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
517-432-4355
Rendered perspective, southwest view
Rendered perspective, southeast view
Rendered perspective, northeast view
Timeline for traffic and pedestrian routing during construction

May 12 – May 23, 2014: Traffic interruption to re-work median
  • Close bike path – follow pedestrian path (sign revisions to be made)

May 23, 2014 – October 2016: Re-stripe and turn over one west-bound and two east-bound lanes
  • Site fence moved south
  • Bike path open

November 2016
  • All four lanes of Wilson Road will be re-opened
Traffic and pedestrian routing during construction
Construction detour plan (May 5, 2014 – March 2, 2015)
Project information

Project representative:
Brad Bull
babull@ipf.msu.edu
517-908-7751
or
Chris Thronson
thronson@frib.msu.edu
517-908-7761

Additional information:
http://www.frib.msu.edu/

FRIB
Facility for Rare Isotope Beams
U.S. Department of Energy Office of Science
Michigan State University
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:
  o Building infrastructure
  o Addressing needs such as plumbing, heating ventilation and air conditioning, electrical, life safety and data
  o Building envelope and foundation
  o 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
Chittenden Hall – Renovation

Rendering of completed plaza
Interior rendering
Construction detour plan (Nov. 15, 2013 – Aug. 24, 2014)
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Infrastructure
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 until April 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.
• Some parking loss to Delta Court during early work (April 7-18)
• Maintain construction access to the Landon Hall construction site (via West Circle Drive)
• Delta Court closed east of the Wills House driveway
Construction detour plan (May 5 – Aug. 1)
Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
517-432-2675
North Campus Infrastructure Improvements – West Circle Drive 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.
Construction detour plan (May 5 – July 15)
Construction detour plan (July 16 – Aug. 16)
Construction detour plan (Aug. 16 – Sept. 26)
Fliers and display boards available
Construction representative:
Andy Linebaugh
alinebau@ipf.msu.edu
517-432-7103
Why?

• To maintain the integrity of the masonry, window curtain walls and building envelopes.

Timeline:

• Construction start: May 5
• Substantial completion: Aug. 1
• Note: Timeline has been coordinated for each of the residence halls with their sports camps and conference schedules

Impacts:

• Noise
• Dust
• Washing outside of building
Construction representative:
Ken Dawson
kdawson@ipf.msu.edu
517-353-9716
New construction detour application

New-and-improved detour information: https://ipf.msu.edu/construction/detours/index.html
New(ish) IPF website

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

www.ipf.msu.edu
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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

• May 8 – College of Law, room 343
• June 12 – College of Law, room 343
• July 10 – College of Law, room 343

Please sign in and take a survey before you go!
Sprinkle in some trivia!

Name one of the three Construction Junction mascots.
Sprinkle in some trivia!

Captain Construction
Barry the Barrel
Coney