PLEASE FILL OUT A SURVEY!

They are available at each table

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

• MSU Board of Trustees updates

• New presentations
  o Breslin Student Events Center - facility upgrades
  o Strategic development: special housing needs / Spartan Village redevelopment
  o MSU Scene Shop - construct replacement building

• Project updates
  o North campus infrastructure improvements - West Circle Drive 2015
  o Grand Rapids – real estate and research facility development
  o Duffy Daugherty Football Building - renovate locker room and training room
  o Steam distribution - replace direct buried steam service to Kresge Art Center - 2014
  o Life Science - renovations - a wing
Step 1: Authorization to plan

- Engineering Building – alterations to suite 1515
- Electrical distribution – upgrade northwest zone
- Crop Science – storage building two – construct original building

Step 2: Authorization to proceed

- MSU College of Law - north entrance site improvements
- Food Processing and Innovation Center
- MSU Scene Shop – construct replacement building
- Sheep Lambing and Research Facility
- Crop Science – field laboratory – addition two - greenhouse
- MSU Police Special Response Team operation center
- Natural gas distribution – new pipeline from Mt. Hope Road
Step 1: Authorization to plan
- Public Safety – addition three and renovations to telecom

Step 2: Authorization to proceed
- Electrical distribution – upgrade northwest zone
- Crop Science – storage building two – construct original building
- Packaging Building – first floor renovations
- Breslin Student Events Center – facility upgrades
- Food Processing and Innovation Center
- Electrical distribution – campus renewable energy
Why?

- To enhance the student, alumni, fan and public experience by improving the functionality of the Events Center.
- Create a lasting legacy by integrating a sense of Spartan tradition throughout the facility.
- Extend the useful life of the building by improving services to the fans and implementing major maintenance items.
Project scope

• Project will be divided into two phases: facility upgrades and athletics addition
  o Phases will be designed in a way that allows minimal rework
  o Phases will be fully coordinated throughout design and construction

• Phase one:
  o 22,000 square foot addition around building
  o Expand concourse
  o Renovate/upgrade restroom facilities, increase fixture count
  o Renovate concessions stands
  o Improve entry vestibules to main concourse
  o Improve finish levels and experience on concourse
  o Improve site conditions for ingress and egress
  o Improve site security
  o Replace chiller system
  o Connect to East Lansing water system
Project scope

• Phase two:
  o 32,000 square foot addition
  o Create sense of main entry; destination to the building
  o Create Hall of History
  o Club / meeting space / restaurant bar
  o Means of travel from event level to concourse
  o Currently holding athletic addition at schematic design, until funding is available
Timeline (phase one)

- Construction start: Dec. 1, 2015
- Ready for occupancy: Aug. 29, 2017
SITE IMPROVEMENTS

1. Existing tree massing (typical)
2. Alternate ramp location for Kalamazoo Street mid-block crossing
3. Satellite truck and ambulance parking area
4. Regrade existing berm to allow for barrier free access at new south east entry
5. Existing crosswalk location
6. Realigned crosswalk to coordinate with new Special Housing Needs project
7. Site wall
SPECIAL HOUSING NEEDS - BRESLIN ADDITION PROJECT COORDINATION
Phase one - concourse rendering
Phase two – concourse rendering
Floor plan existing concourse
Breslin Student Events Center – facility upgrades

Phases one and two – floor plan concourse scope outline
Phase one – proposed floor plan without athletic addition
Phase one - construction phasing plan
Phase two – proposed floor plan with athletic addition
Phase two – athletics addition

Breslin Student Events Center – facility upgrades
Phase two – athletics addition hall of history
Phase two - construction phasing plan for athletics addition
Design representative:
Jeff Bonk
jbonk@ipf.msu.edu
(517) 884-6746

Breslin Student Events Center – facility upgrades

The Jack Breslin Student Events Center opened in 1989. The building hosts more than 100 events annually, including acting as the home to MSU men’s and women’s basketball. In 2013, Residential and Hospitality Services and Intercollegiate Athletics commissioned studies to examine how to use the facility to its highest functional capacity as a major event center for MSU. Specifically, the studies examined current building conditions, variances with current building codes, energy saving opportunities and enhancing the patron experience at events.

This project is anticipated to include updating building systems, such as:

- Replacement of the chiller
- Toilet room upgrades
- Concourse and concession upgrades
- Building access control
- Loading dock upgrades and freight elevator replacement
- Replacement of damaged arena fixtures and doors
- Incorporation of energy saving opportunities

The Jack Breslin Student Events Center is located on Birch Road in the athletic and recreation district.

Timeline
Start of construction: TBD
End of construction: TBD
Strategic development: special housing needs / Spartan Village redevelopment

Project location
Why?

• Create a living environment that supports both single students and student families around the resources they need to be academically successful

• Create an institutional asset to further our world class land-grant mission

• Consolidate office spaces from across campus, freeing up space for academic programs while saving resources and improving communication

• Create synergies between Residential and Hospitality Services and Intercollegiate Athletics
Program scope

• 102,000 square foot mixed use office building (LEED Silver)
  o RHS offices
  o Intercollegiate Athletics offices
  o Retail
• 438,000 square foot student apartments
  o Single student apartments (Studio, 2BR, 4BR)
  o Family housing apartments (1BR, 2BR)
• Parking (2,075 spaces)
  o Student (apartments)
  o Event\staff
  o Deck
• Funding Source – auxiliary funds
  o RHS
  o Intercollegiate Athletics
  o Parking
### Timeline

- Construction start: Summer 2015
- Ready for occupancy: Summer 2017

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Site selection and existing conditions

- University Village: To Remain
- Event Parking: To Be Relocated on Site
- Scene Shop Pole Barn: To Be Replaced
- Police Pole Barn: To Be Replaced
- State Police Bldg.: To Be Demolished

Strategic development: special housing needs / Spartan Village redevelopment
Strategic development: special housing needs / Spartan Village redevelopment

Site plan
Strategic development: special housing needs / Spartan Village redevelopment

Preliminary site phasing plan – phase one
Preliminary site phasing plan – phase two

Strategic development: special housing needs / Spartan Village redevelopment
Strategic development: special housing needs / Spartan Village redevelopment

Site plan – aerial view

- Building “E”
- Exist. UV
- Building “D”
- Building “C”
- Building “B”
- Building “A”
- Parking deck
- Office tower
- Retail
- Retail
Aerial view of single student housing
Building D
Building E – family housing
Strategic development: special housing needs / Spartan Village redevelopment

Office \ mixed-use building first floor plan

Harrison Road

Plaza

OFFICE BUILDING - FLOOR 1
Office \ mixed-use building
Office \ mixed-use building and plaza
View of mixed-use building from Harrison and Kalamazoo
Design representative:
Dick Temple
dick.temple@hc.msu.edu
(616) 234-2603

Construction Manager:
Walbridge
Terry Clemens
TClemens@walbridge.com
(313) 304-5199
Proposed Scene Shop
Why?

• The existing Scene Shop is located on the former State Police Post site, at the corner of Harrison Road and Kalamazoo Street. It will be displaced by the proposed Special Housing needs / Spartan Village redevelopment project and will need to relocate.

• The project will provide permanent space for the Scene Shop, in proximity to Department of Theatre venues.
Scope

• Replace Scene Shop and related storage located at former State Police Post site
• 12,000 – 15,000 square feet (pole barn type construction)
• Integral component of Department of Theatre course curriculum
• Scene Shop supports construction of sets for Department of Theatre and Music Opera Program performances
• Facility program includes production areas, offices, restrooms; and storage for props, building materials and choral risers
• Proposed site provides proximity to Auditorium Building, Wharton Center and bus line
Timeline

- Construction start: July 2015
- Ready for occupancy: December 2015
Design representative:  
M. Scott Gardner  
mgardner@ipf.msu.edu  
(517) 432-0782
North campus infrastructure improvements - West Circle Drive 2015

May 2015

Project location
Why?

• Replace existing structurally deteriorating arch steam tunnels from the North Campus Substation to Steam Vault 376 (northeast corner of Library building), some of which are 87 to 102 years old.
• Provide new steam services to Olds Hall and complete the north campus steam loop (which also includes steam distribution work in the NCS).
• Install new electrical duct bank from the NCS to north of Olds Hall and replace deteriorated electrical vault lid by Olds Hall.
• Road reconstruction of West Circle Drive (two 10-foot traffic lanes, one 4-foot bicycle lane) from the east side of the MSU Library to the west side of the Auditorium Road and West Circle Drive intersection. Improve pedestrian, vehicular and bicycle safety.
Why?

• Reconfigure Parking Lots 6 and 11 to meet current parking standards.
• Replace deteriorated cast iron water mains and improve fire flow capacity.
• Decommission NCS electrical transformers.
• Repair/replace deteriorated sanitary and storm sewer mains.
Parking impacts

• Parking Lot 6 (MSU Museum parking lot) has been reconfigured to meet current parking standards and will result in a loss of eight (total count from 45 to 37) parking spaces.

• Parking Lot 11 (Hannah Administration, MSU Library and Olds Hall) has been reconfigured to meet current parking standards and pedestrian safety. The above improvements will result in a loss of 10 (total count from 127 to 117) parking spaces.
Timeline

• Construction early preparation: March – May
• Construction begins: May 11
• West Circle Drive and Parking Lot 6 reopened: July 12
• Parking Lot 11 and access drives reopened: August 14
Proposed - West Circle Drive - project area and phases
Proposed hardscape, utilities and vegetation

North campus infrastructure improvements - West Circle Drive 2015
May 2015
North campus infrastructure improvements - West Circle Drive 2015
May 2015

Proposed road, parking and site flatwork
Construction phasing
North campus infrastructure improvements - West Circle Drive 2015
May 2015

Proposed construction sequence – phase 1 (May 11 – July 12)
Affected units

- Major buildings impacted during this phase of construction:
  - Music Building
  - Music Practice
  - Intramural Circle
  - Library
  - MSU Museum
  - Olds Hall
  - Hannah Administration Building
  - Beaumont Tower

- West Circle Drive will be temporarily closed from the Library/Admin. entrance to Auditorium Road and limited access (delivery only for approximately eight weeks) from Beal Street to the Library/Admin. Drive. Temporary detour plans and pamphlets/signs will be developed shortly.
### Temporary Measures

- Permit 13 spaces will be relocated to Admin Loop or another parking lot if requested. All other lease spaces will be relocated to adjacent parking lots and ramps.
- CATA’s Spec-Tran will run during building hours. Construction Manager provides site access Monday – Saturday 6 a.m. – 6 p.m. and MSU Parking Enforcement from 6 p.m. to the close of building hours. Sunday will be CM and/or MSU Parking Enforcement.
Proposed construction sequence – phase 2 (July 12 – August 14)
North campus infrastructure improvements - West Circle Drive 2015
May 2015

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Design representative:
M. 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 2015

Project phase: Planning/Design

The north campus arch-style steam tunnels are 97 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 final segment of a four-segment program.

Project details:
- Project includes 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.
Grand Rapids – real estate and research facility development
May 2015

Project location
BOLDER BY DESIGN

Working Together. Getting It Done.

- **ENHANCE** the student experience
- **ENRICH** community, economic, and family life
- **EXPAND** international reach
- **INCREASE** research opportunities
- **STRENGTHEN** stewardship
- **ADVANCE** our culture of high performance
Location

• Off-campus project
• Gateway to North Monroe neighborhood and medical mile
• Prominence of the site
  o Downtown\convention center
  o Medical mile
  o Transportation planning
  o River restoration project

Former Grand Rapids Press site  MSU Secchia Center
Project scope

- Project designed with open\flexible labs for 33 principal investigators
- Shelled floor for an additional 11 PIs
- Vivarium built to accommodate 44 PIs
- 162,680 gross square feet
Project team

• MSU
  o Auxiliary Enterprises
  o College of Human Medicine
  o Infrastructure Planning and Facilities
  o Land Management office
  o Office of Investment and Financial Management

• Consultants
  o AE: SmithGroupJJR\Ellenzwieg
  o CM: Clark Construction\Rockford Construction JV
  o Owner rep: Kramer Management Group
Grand Rapids – real estate and research facility development
May 2015

Schedule

- Demolition complete: May 2015
- Construction start: June 2015
- Substantial completion: July 2017

<table>
<thead>
<tr>
<th>Construction Documentation</th>
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<tr>
<td>CI-1 Design Assist Subcontractors</td>
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<td>CI-2 Foundations / Site Utilities / Steel (for reference)</td>
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<td>CI-3 Structural Steel</td>
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<td>CI-4 Core &amp; Shell, Fitup and Final Site</td>
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<td>90% CI-4 Scope and Cost Review</td>
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<td>CI-4 Core and Shell, Fit up and Final Site for Bid and Construction</td>
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<td>Lab Install</td>
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<td>Move In</td>
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<td>P-3 Construction</td>
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Site progress

March 23

May 1
Stacking Diagram:

- Six-story building with partial penthouse
  - Ground floor
  - Four research floors
  - One Vivarium floor
- 44 PI teams
  - Initial fit-up for 33 PI teams
  - Shell space for 11 future PI teams
- 162,680 gsfF
Ground Floor Plan

LEGEND
- ANIMAL HOLD
- CIRCULATION
- COMMERCIAL
- CONF. / LOUNGE
- LAB CORE
- LAB SPACE
- LAB SUPPORT
- MECHANICAL
- OFFICE
- PROCEDURE
- VIVARIUM SUPPORT
Typical Research Floor (two through four)
Atrium collaboration space – 3D section
Rendering of atrium
Rendering of exterior
Rendering of exterior view from Monroe Street
Design representative:
Dick Temple
dick.temple@hc.msu.edu
(616) 234-2603

Construction Manager:
ClarkRockford JV
Chad Webster
cwebster@clarkcc.com
(231) 344-2063

Project site web cam:
http://humanmedicine.msu.edu/Buildings_and_Facilities/GRRC.htm
Duffy Daugherty Football Building – Renovate Locker Room and Training Room
May 2015

Duffy Daugherty Football Building
Why?

• Training facilities were last updated in the mid-1990s.
• Major technological changes have occurred in training therapy delivery methods since then.
• The installation of modern equipment will necessitate reconfiguration of the existing space.
• The locker rooms in the building are in need of functional, spatial and aesthetic refurbishment, as they no longer reflect Big-Ten-level facilities.
Scope

• Training room
  o Install new therapy pools, reconfigure office area, reception/monitoring and treatment spaces.

• Locker room
  o Reconfigure locker arrangement for a more open layout and install new lockers.
  o Redistribute ventilation system.
  o Update furniture, finishes and technology.
Impacts
• Occasional road closures on Shaw Lane during portions of the project due to truck traffic.
• The building will remain open during the project, and alternate routes through the building will be provided for occupants.

Timeline
• Construction start: January 2015
• Ready for occupancy:
  • Locker room – June 1, 2015
  • Training room – July 17, 2015
Proposed new locker room perspective
Duffy Daugherty Football Building – Renovate Locker Room and Training Room
May 2015

Locker room – looking south
Duffy Daugherty Football Building – Renovate Locker Room and Training Room
May 2015

Locker room – southwest corner
Proposed new training room perspective – therapy pools
Training room therapy pools
Training room – looking northeast to new office location
CONSTRUCTION.MSU.EDU

Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153

Duffy Daugherty Football Building – Renovate Locker Room and Training Room

May 2015

Duffy Daugherty’s training facilities were last updated in the mid 90’s. Since then, major technological changes have occurred in the training therapy delivery methods. The installation of modern equipment will necessitate reconfiguration of the existing space. Similarly, the locker rooms in the Duffy building are in need of functional, spatial and aesthetic refurbishment, as they no longer reflect Big Ten level facilities.

Project details:
- Training Room: Install new therapy pools, reconfigure offices area, reception/monitoring and treatment spaces
- Locker Room: Reconfigure Locker arrangement for a more open layout and install new lockers, redistribute ventilation system, update furniture, finishes and technology

The Duffy Daugherty Football Building is located at the corner of Chestnut Road and Shaw Lane.

Detour Information:
The southernmost lane of eastbound Shaw Lane and the adjacent sidewalk will be closed from January 12 to March 1. Pedestrians and bicyclists will be re-routed to the north side of Shaw Lane. Motorists will be able to use the inside lane on the eastbound side of Shaw Lane during this closure. This detailed map outlines detour impacts and project phasing.
Steam distribution - replace direct-buried steam service to Kresge Art Center - 2014
May 2015

Kresge Art Center
Why?

- Steam piping has had three failures in the last five years

Timeline

- Project Start: May 26
- Project End: July 31
Impacts

• Sidewalk closed from east side of Kresge Art Center to west side of Alumni Chapel on south side of Auditorium Road

• Auditorium Road will be closed for a 6-day period from Physics Road to east entrance of the Baker Hall circle (will be open on weekends)

• Parking on south side of Auditorium Road between Kresge Art Center and Alumni Chapel will be unavailable
Design representative: John LeFevre  
jlefevre@ipf.msu.edu  
(517) 884-6740

Project representative: Kevin Durkin  
kdurkin@ipf.msu.edu  
(517) 432-2153
Why?

• Consolidate the College of Nursing program in Life Science
• Relocate the Student Media Lab
• Create a new Teaching Collaboration Lab

Project goals:

• Create efficient and appealing workspace
• Bring daylight into the space
• Create an up-to-date media lab for students
• Create a teaching lab for faculty to enhance collaboration
Timeline:

- Construction start: January 2015
- Ready for occupancy: August 2015
Building layout
East corridor
Office example
Construction representative:
Matthew Postma
mpostma@ipf.msu.edu
(517) 353-9223
IPF website

- Alerts feed
- Construction
  - Detours
  - CJ info
  - Project info
  - Contact info
- Resources
- Listservs

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• Watch IPF videos on YouTube: www.youtube.com/FacilitiesMSU
Construction Junctions continue monthly

Meetings are at 8:30 a.m. the second Thursday of the month

• June 11 (College of Law, room 343)
• July 9 (College of Law, room 343)
• August 13 (TBD)

Please sign in and take a survey before you go!