PLEASE LET US KNOW HOW WE’RE DOING

• We want your thoughts and suggestions about how you feel about this new online version of Construction Junction, and what we might do to improve.

• Please leave any comments or suggestions in the feedback box on the Construction Junction webpage located at: http://ipf.msu.edu/construction/construction-junction/index.html.

• Thank you in advance!
MSU Board of Trustees updates

Informational

• Campus snow plan

Project updates

• Grand Rapids - real estate and research facility development
• Breslin Student Events Center - facility upgrades
• MSU Scene Shop
• Kellogg Center - alterations to rooms 61, 62 and Corniche Room
• Engineering Building - chiller replacement
• Giltner Hall - alterations to rooms 39, 40, 41, 65, 67, 344A and 363
Step 1: Authorization to plan

- Engineering Research Complex – addition 4 and renovations

Step 3: Bid and contract award

- Food Processing and Innovation Center
Step 1: Authorization to plan

- Hannah Administration Building – Third Floor Alterations
- Spartan Stadium – installation of permanent lights

Step 2: Authorization to proceed

- Data Center – construct original building
Campus Snow Plan
• It’s snow season. Be snow safe!
  • Don’t rush – give yourself time to get to work
  • Drive carefully
  • Dress warmly
  • Wear sensible shoes
  • Watch where you are walking
  • Shorten the length of your stride while walking
  • Check the forecast before heading outside
• **Safety**
  
  • Do not dart out in front of or behind snow-removal equipment. It is large, loud and difficult to stop quickly.
  
  • Make eye contact with a snow-removal equipment operator before crossing in front of him/her.
• **Salt and ice-melt compound**
  
  • Dial 353-1760 to report icy spots on campus.
  
  • It takes time for the ice-melt compound to take effect.
Campus Snow Plan

Brine versus no brine

- Brine
- No plow and just brine
- No brine

Inch of snow
And wind
11/18/14
Brine versus no brine
Remember... your help is needed!

WALKWAY ICE MELT

If you see an icy area, please sprinkle it with ice-melt compound.
Please help us keep walking surfaces clear of snow and ice this winter.

The ice-melt compound is an environmentally friendly alternative to salt that is provided by your Infrastructure Planning and Facilities partners in snow removal:
• Building Services–Custodial Services
• Landscape Services

Thank you for your help!

INFRASTRUCTURE PLANNING AND FACILITIES
WE KEEP MSU RUNNING
ipf.msu.edu • Call 353-1760
• **Sidewalks**
  
  • Do not park so close to the sidewalk that your car’s bumper hangs over it.
• Parking lots
  • Avoid parking in the part of a lot that has not yet been cleared.
  • Park where it’s plowed or wait a few minutes for the driver to finish and then park freely in the cleared lot.
• Residence hall parking loops
  • Parking is prohibited in residence hall loops from 2 to 6 a.m.
  • With 65 people plowing, 26,000+ spaces must be cleared before 6 a.m.
• To request services or to report dangerous spots on campus, call 353-1760.

• If you can’t call, tweet IPF (@MSUFacilities) to report snow concerns (and to send photos).

• For more information on MSU’s snow-removal plans, visit ipf.msu.edu.
  o  Snow and ice removal services: http://ipf.msu.edu/services/snow-and-ice-removal.html
  o  Green practices for snow removal: http://ipf.msu.edu/green/practices/snow-removal.html

• E-mail feedback, suggestions and comments to snowplan@ipf.msu.edu.
Grand Rapids – real estate and research facility development
March 2016

Project location
Location

- Off-campus project
- Gateway to North Monroe neighborhood and medical mile
- Prominence of the site
  - Downtown/convention center
  - Medical mile
  - Transportation planning
  - River restoration project
“... this state-of-the-art research center that will house some of the top scientists in the fields of autism, Alzheimer’s and Parkinson’s diseases, pediatric cancer and women’s health research. You can be proud to be part of this great medical research evolution ....”

Interim Dean Aron Sousa, M.D.
November 19 Topping Off Ceremony
Grand Rapids – real estate and research facility development
March 2016

Schedule

• Construction start: June 2015
• Substantial completion: July 2017
• Project on schedule
Michigan Street / Monroe Avenue Plaza – design concept
Michigan Street and Monroe Avenue Plaza
Rendering of exterior view from Monroe Street
Grand Rapids – real estate and research facility development
March 2016

Site progress


February 25, 2016
Weather enclosure
HVAC equipment
Color-coded conduit

Spray-on fireproofing
Concrete - completion

Mechanical systems
Atrium – skylight work
Atrium – second-floor work
Project webcam

http://oxblue.com/pro/?webPath=msu/grrc
CONSTRUCTION.MSU.EDU

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MSU Project representative:
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Construction Manager:
Clark Rockford JV
Chad Webster
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(231) 344-2063
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 30,000 square foot addition
  o Create sense of main entry; destination to the building
  o Create a Basketball Hall of History
Timeline

• Construction start: January 2016
• Ready for occupancy: August 2017
Floor plan – existing concourse
Phases one and two – floor plan concourse scope outline

Breslin Student Events Center – facility upgrades
March 2016
Phase one – northwest gate
Breslin Student Events Center – facility upgrades
March 2016

Phase one – northeast gate
Phase one – concourse
Phase two – athletics addition – Hall of History

Breslin Student Events Center – facility upgrades
March 2016
Breslin Student Events Center – facility upgrades
March 2016

Phase two – athletics addition – Hall of History
Site improvements

Hall of History Site Plan

1. Ramp location for Kalamazoo Street mid-block crossing
2. Satellite truck and ambulance parking area
3. Existing crosswalk location
4. New crosswalk to coordinate with new Special Housing Needs project
5. Concrete site wall, with planting bed
6. Regrade parking lot to meet ADA requirements
7. Drop-off zone
8. Proposed Hall of History Plaza
Exterior entry / concourse additions
Phase two – exterior – Hall of History
Phase two – exterior – Hall of History
Northwest addition footings
Southwest canopy demolition
Construction representative:
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(517) 432-2675

Design representative:
Jeff Bonk
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(517) 884-6746
Project site
Why?

- The previous Scene Shop location is being utilized as part of the 1855 Place project, and thus required relocation of the shop to another site.
Project accomplishments

- Replaced Scene Shop and related storage located at former State Police Post site
- 10,000 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 includes production areas, offices, restrooms and tool room

Timeline

- Construction start: October 2015
- Ready for occupancy: January 2016
Main workspace
MSU Scene Shop – construct replacement building
March 2016

Front entrance – looking northwest
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153

MSU Scene Shop - Construct Replacement Building

Project Details:
- 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.

Project Scope:
- Replace Scene Shop and related storage located at former State Police Post site
- 10,000 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 tool room

Timeline:
- Construction start: October 2015
- Ready for occupancy: December 2015
Why?

• To update both the aesthetics and technology in the rooms
Project scope

- Demolition of all room interiors
- Installation of new flooring and wall coverings
- Installation of new lighting and electrical
- New technology
  - Television
  - Data/wireless
Impacts

• The Corniche Room and rooms 61 and 62 will be offline during construction.

Schedule

• Construction start: December 1, 2015
• Ready for occupancy: March 1, 2016
Room 62
Room 61 – currently in use for cashier training
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153
Why?

• Replace aging cooling equipment at the end of its useful service life.

• Implement a comprehensive, long-range plan to create a regional chilled water loop among six buildings:
  o Engineering Building
  o Anthony Hall
  o Food Science
  o Natural Resources
  o Packaging
  o Communication Arts and Sciences

• Create a chilled-water network serving the affected buildings as efficiently as possible.
Scope

• Chilled-water loop
  o Site excavation near Engineering Building south wing
  o Site excavation between Engineering’s Dow wing and Anthony Hall
  o New chilled-water main piping

• Equipment upgrades in satellite buildings (phase II)
  o Addition of pumps and controls in Natural Resources, Packaging and Communication Arts and Sciences
  o De-commission aging electric chiller at Communication Arts

• Chiller replacement at Engineering Building (phase II)
  o Replace steam absorption chillers with new electric chillers
  o Expand building electrical substation
  o New roof-mounted cooling towers
Energy and sustainability

• New chillers at the Engineering Building produce chilled water using 60% less energy than the absorption machines currently installed.
• New chillers will fit in the existing mechanical room, avoiding excessive site disturbance for a building addition.
• Engineering chillers will be large enough to be “base loaded” vs. Anthony and Food Science chillers.
  o Most efficient machines in the loop will meet cooling demand at all six buildings for majority of the year.
• Project will avoid investing in a chiller plant at both the Engineering Building and Communication Arts and Sciences.
Impacts

• Pedestrian detours will be clearly marked during site construction.
• Construction zones will be properly separated to prevent unauthorized access.
• Building crane lifts will be coordinated in advance.
• No adverse parking impacts.
• Site access will require contractor coordination and just-in-time deliveries.
• Pedestrian circulation on-site will be impacted in Summer 2015, with minimal impacts lasting until April 2016.
Timeline

- Construction start: May 2015
- Pedestrian circulation restored: August 2015
- Substantial completion of chiller system: April 2016
Map of site showing tentative detours and entrance closures – phase two
Newly placed cooling towers on the roof of Engineering
One of two new chillers in the basement of Engineering
The second chiller in the basement of Engineering
New pumps in the basement of Engineering
Construction representative:
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(517) 432-4355
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
What is FRP?

• The Faculty Readiness Project (FRP) is a dedicated team from
  o Infrastructure Planning and Facilities (IPF)
  o Facilities Planning and Space Management (FPSM)

• Working together with colleges to
  o Pro-actively plan for potential new hires
  o Use various delivery methods to shorten bid periods
  o Construction timelines to create
    ▪ Positive experience for colleges
    ▪ Welcoming environment for new faculty

• Delivering an outstanding project
  o High quality
  o Time and cost efficient
  o Supports the advancement of the university’s research agenda
Why?

- The FRP team is designing and constructing a new zebrafish facility and various supporting lab/office spaces for two new Integrative Biology research recruits.
Project scope

- Rooms 39, 40 and 41
  - Security access (various areas)
  - Lighting controls
  - Cosmetic upgrades to room 39 office
  - Shoring of floor from subbasement
  - Connect to Aquaneering Fish Lab equipment including three large fish tank rows in the main fish room
  - New flooring, ceiling and furniture in the Developmental Lab
  - Quarantine Room
  - Changing Room for new fish facility
  - Infill of existing lab door
  - Add mechanical room with equipment for the labs own HVAC system to provide required air changes and temperature requirements for fish rooms
  - Exterior door/masonry work for entryway to new mechanical room
Project scope

• Rooms 65 and 67
  o Add wall in room 67 to separate imaging and injection areas

• Rooms 344A and 363
  o Cosmetic upgrades to labs/office on third floor
Impacts

- Construction noise
- Steam shutdowns

Schedule

- Construction start: March
- Ready for occupancy: July
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363

Condition of existing labs prior to demolition

Main Fish Lab – room 40

Imaging/Injection Lab – room 67
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363

Plans for main lab space (90% design complete)
Plans for Injection/Imaging lab (room 67) and office (room 39) - 90% design complete

- Black out this window, but AC required
- Connections to building air (with filter) or pressure bottles (PB)

Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363
Giltner Hall – alterations to rooms 39, 40, 41, 65, 67, 344A and 363

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IPF website

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Construction Junctions continue monthly

Presentations will be available on the Construction Junction website by the seventh of each month.

• April 14 – Construction Awareness Day
  (8:30 a.m., College of Law, room 474)
• May 7 (back to online YouTube version)
• June 7 (back to online YouTube version)

Thank you for your interest, and we hope you’ll visit us again soon!