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

New projects

• Parking lot restriping
• Parking lot reconstruction projects

Project updates

• Abbot Road landscape rejuvenation project
• 1855 Place
• Breslin Student Events Center - facility upgrades
• Engineering Building – alterations to suite 1515
• Hubbard Hall Exterior Masonry Repairs
• Natural Gas Distribution - new pipeline from Mt. Hope
• T.B. Simon Power Plant - upgrade utility substation
No projects at either:

Step 2 – Authorization to proceed
-or-
Step 3 – Bid and contract award
Step 2: Authorization to proceed

- Engineering Research Complex - addition four and renovations
- Data Center

Step 3: Bid and contract award

- Food Processing and Innovation Center
Parking lot restriping
Why?

• The majority of parking areas on campus are striped on a three-year rotation.

Timeline

• Painting is scheduled in two-week time periods to allow for striping to take place in smaller sections and to also allow for weather delays.
• Parking areas that are being painted are generally shut down for two to three hours, but may take longer due to adverse weather conditions which can cause the paint to dry slower.
Impacts

• Painting crews begin work at 5 a.m., and spaces are left available whenever possible.
• Campus visitors and employees are asked to refrain from moving cones or parking in spaces that are being painted or that have been recently painted, so as not to inhibit the painting crew.
Parking lot striping – May 23 through June 10

Lot 56 Reservoir
Lot 71 Wonders Hall
service area/loops
Lot 79 Stadium (west)
Lot 81 Building 88
Lot 40 Faculty
Lot 49 Packaging Lab
Lot 72 Case Hall N and S
Lot 85 Manly Miles (west)
Lot 60 IPF (south)
Lot 38 Erickson (gated)
Lot 50 International
Ramp #5 Comm Arts

Communication Arts and Sciences - June through July
Summer roadway and parking lot asphalt maintenance

Parking lot striping – June 13 through June 24

Lot 39 Commuter/visitor
Lot 58 Speech/Audiology
Lot 73 Wilson Hall service area/loops
Lot 86 Manly Miles (east)
Lot 42 Dairy
Lot 43 North of Food Science/Anthony
Lot 93 Nisbet
Lot 74 Holden Hall service area/loops
Ramp #5 Comm Arts

Communication Arts and Sciences - June through July
Summer roadway and parking lot asphalt maintenance

Parking lot striping – July 11 through July 22

- Lot 79 Stadium (east side)
- Lot 70 Old Faculty
- Lot 55 Central Services
- Lot 68 Breslin Loop
- Lot 82 Purchasing Building
- Lot 95 Power Plant (employee)
- Lot 59 IPF
- Ramp #5 Comm Arts

Lot 59 (IPF) - one Saturday in July (weather dependent)

Communication Arts and Sciences - June through July
Summer roadway and parking lot asphalt maintenance

Project Manager
Adam Lawver
lawver@ipf.msu.edu
(517) 884-2321
Parking lot construction
Parking lot construction

Lots 83 (student) and 88 (Linen Services)

Lot 89 (Commuter)
Lot 89 – Commuter Lot (May 9 – June 30)

Parking lot construction

SOUTHEAST PARKING LOT
FULL DEPTH PAVEMENT RECONSTRUCTION

BUS LOOP
SURFACE PAVEMENT RECONSTRUCTION

CP15195
Construction representative:
Kevin Durkin
kdurkin@ipf.msu.edu
(517) 432-2153
Parking lot construction

Lots 83 (student) and 88 (Linen Services) – sewer separation project

May 9 through June 6

April 18 through June 6

CP15202
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
(517) 355-1628
Why?

• Norway maples along major circulation route present a safety hazard
  • Overall condition is poor – declining health
  • Internal decay, crown dieback, girdling roots and invasive species

• The Norway spruce has a decay column that extends to grade

![Crown dieback](image1)
![Girdling roots](image2)
![Internal decay](image3)
![Decay column](image4)
Project goals

• Utilize funding to improve a signature campus site
• Renovate an aging landscape to strengthen the university’s historical entrance
• Reinforce the Campus Landscape Master Plan – Campus Entrances Overarching Goal
  • “Establish a recognizable and visually attractive design aesthetic that appropriately identifies the campus at its borders, provides for safe circulation and aids visitor wayfinding.”
Project scope

- Remove 21 declining non-native Norway maples and one declining Norway spruce in boulevard; replace with 14 swamp white oaks (a native species)
  - Oaks will provide a stately canopy structure
  - Some of the oldest trees on campus are swamp white oaks, which demonstrates their longevity
- Remove eight low evergreen groupings in boulevard to improve circulation sight lines
- Add five Sugar Tyme crabapples to provide seasonal interest backdrop at the historic limestone marker
- Enhance adjacent parkways along the Union Building and Campbell Hall by infilling with five trees to maintain a “park-like” signature entrance
- Alleviate soil compaction and amend
Schedule

• Project start: May 23
  • Will begin after College of Law commencement May 13 and East Lansing Art Fair May 21-22
• Project completion: June 17
Impacts

• Southbound Abbot Road will be closed daily (May 23 – June 10) from 8 a.m. – 6 p.m.; open on the weekends.
• Meter parking on southbound Abbot Road will not be available for the project duration (May 23 – June 17).
• Minor intermittent pedestrian detours
• Union sidewalks and parking bays will have temporary closures for repairs and exterior accessibility improvements.
• No utility shutdowns are necessary for work scope.

NOTE:
• During the same period we are taking the opportunity to restore Campbell Hall’s historic masonry benches (along Abbot Road).
Removal plan
Proposed plan
Crews removing diseased/decaying trees
Rejuvenation work continues in the project zone
Preparing for new plantings
Abbot Road landscape rejuvenation project
June 2016

Design representative:
Tressa Wahl
twahl@ipf.msu.edu
(517) 884-2185

Abbot Road Landscape Rejuvenation Project

Project phase: Construction

MSU IPF has scheduled a landscape rejuvenation project of the Abbot Road campus entrance. The entrance will be reconstructed to reflect the landscape aesthetic intended by its original designers—a formal boulevard of trees. The deteriorating landscape has become a safety hazard due to the declining tree health over the years.

Project details

• Remove 21 declining Norway maples and one declining Norway spruce in the boulevard, replace with 16 swamp white oaks—a native species throughout campus.
  ◦ Oaks will provide a stately canopy structure.
  ◦ Some of the oldest trees on campus are swamp white oaks—demonstrating their longevity.
• Remove eight low evergreen groupings in the boulevard to improve circulation sight lines.
• Add five Sugar Tyme crabapple trees to provide a seasonal interest backdrop at the historic limestone marker.
• Enhance adjacent parkways along the MSU Union and Campbell Hall with five trees to maintain the "park-like" signature entrance.
• Ameliorate soil compaction and amend nutrients in soil.
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
Project 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 Deck
  o Student (apartments)
  o Event\staff

• Funding Source – auxiliary funds
  o RHS
  o Intercollegiate Athletics
  o Parking
Timeline

- Construction start: Summer 2015
- Ready for occupancy: Summer 2017
Site selection and existing conditions

University Village
To Remain

Event Parking
To Be Relocated on Site

Police Pole Barn
To Be Replaced

Scene Shop Pole Barn
To Be Replaced

State Police Bldg.
To Be Demolished

1855 Place (CP13351)
June 2016
Phase one site phasing plan – September 2015
Preliminary site phasing plan – phase two
Office\mixed-use building – view from southeast
View of mixed-use building from Harrison and Kalamazoo
Construction of the south elevator shaft of mixed-use building “A” in progress
Exterior work on the family housing units nears completion
Framing construction of single-student townhouse-style apartment buildings continues.
Project webcam

http://oxblue.com/open/Walbridge/SpartanVillage
Project representative:
Andy Linebaugh
alinebau@ipf.msu.edu
(517) 432-7103
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

• 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

• 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
Phases one and two – floor plan concourse scope outline
June 3 through June 13 – phasing plan
June 13 through June 24 – phasing plan
June 24 through July 25 – phasing plan
Breslin Student Events Center – facility upgrades (CP14110)
June 2016

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

Legend:
- asphalt pavement
- concrete pavement
- landscape bed
- lawn restoration
- stormwater catchment area
- proposed heated pavement area
- proposed post and chain pedestrian barrier fence
- proposed bollard in paver band
- existing tree
- proposed tree
- proposed art location
Phase one – gate entrance rendering
Phase two – exterior – Hall of History
Work on the exterior of the northeast addition continues
Work on the northwest addition in progress
Preparing the Magic Johnson statue for temporary relocation
Magic Johnson statue relocation in progress
Statue in its temporary location pending completion of the Hall of History
Spartan Basketball All-Access: “Big Plans” (Episode 3)
Construction representative:
Jason Van Zee
jvanzee@ipf.msu.edu
(517) 432-2675
Why?

- In order to support the teaching, learning and research efforts of the newly created Department of Computational Mathematics, Science and Engineering as well as the College of Engineering, creation of new functional offices in the Engineering Building is needed.
Project scope:

- Renovation of suite 1515, including creation of a second floor within the space to facilitate the program
- Creation of an office suite for the department chairperson and staff, including a workroom
- Twenty-five faculty offices, three visiting scholar shared offices, ten post doc workstations, one hundred twenty graduate assistant workstations and one academic specialist office
- Shared space to include conferencing areas, collaboration enclaves and study rooms
Impacts:

- Library will be permanently closed and study space relocated to another part of the building (east wing).
- Pedestrian access to courtyard from the south will be restricted throughout construction.
- Short duration crane lift activity to bring new equipment into the mechanical penthouse.

Schedule:

- Construction start: January 2016
- Ready for occupancy: August 2016
First floor glass-walled faculty offices
Second-floor graduate assistant space and faculty offices
Second-floor graduate assistant space and faculty offices
First-floor departmental conference room
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Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
(517) 432-4355

Engineering Building – Alterations to Suite 1515

Project details:
The project will require relocation of the engineering library collection to the main library. This will allow for creation of:

- Office suite for the department chairperson and staff, including a workroom
- Twenty-five faculty offices, three visiting scholar shared offices, ten post doc workstations, one hundred twenty graduate assistant workstations and one academic specialist office
- Shared space to include conferencing areas, collaboration enclaves and study rooms

The Engineering Building is located at the northeast corner of Red Cedar and Wilson Roads in the Central Academic District.

Timeline
- Start of construction: January 2016
- Ready for occupancy: July 2017

Questions, comments, concerns?
Construction representative
- Todd Wilson, tdwilson@ipf.msu.edu, (517) 432-4355
Why?

• Restore the structural integrity of the masonry building envelope that has serious structural problems identified in a 2013 masonry investigation.

• Building windows will be replaced since the existing windows need to be removed to perform the masonry repairs.

• This project will be completed in four phases:
  o Southeast façade – 2016
  o Southwest façade – 2017
  o Northeast façade – 2018
  o Northwest façade - 2019
Impacts

• Summer programs using residence halls—project limits use of Hubbard Hall to one living wing each summer 2016-2019.

Timeline

• Construction start: May 2016
• Phase one completion: July 31, 2016
• Phase four completion: August 2019
Photos from 2014 interim masonry restoration and exploratory work
Removing two windows to build the mock for the masonry work.
Mock-up corner with new brick and aluminum brick ledge supported by new steel tabs.
Masons cutting out the window caulk so the windows can be removed.
Windows removed and temped in
Crawling up the stair tower taking windows out
Hubbard Hall – exterior masonry repair and window replacement  (CP14275)
June 2016

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Construction representative:
Carol Cool
ccool@ipf.msu.edu
(517) 353-8619
Natural gas distribution – new pipeline from Mt. Hope (CP15104)
June 2016

Project location
Why?

• To increase the reliability of the natural gas delivery system to the T.B. Simon Power Plant.

Project Scope

• Installation of a new 12” natural gas pipeline from Mt Hope Road to a new meter stand at the TB Simon Power Plant.
• The existing gas service to the Power Plant will remain connected for redundancy.
• Augmentation to several miles of high pressure main in Lansing area.
Impact

- Project site is isolated to the service district of south campus at the T.B. Simon Power Plant and adjacent areas.
- Pipeline installation was performed by Consumers Energy.
- Site restoration was performed by the Infrastructure Planning and Facilities, Landscape Services department.
- Final asphalt and restoration work will occur May 2016, along Mt Hope.

Schedule

- Construction start: October 2015
- Gas service complete: December 2015
- Project complete: June 2016
Staged pipe sections
Restoration of bore pits
Completed meter enclosure
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
(517) 355-1628
Why?

• To provide increased electrical power capacity and delivery reliability to FRIB, the T.B. Simon Power Plant and the MSU campus.

Project Scope

• The project consists of the three elements:
  o An underground 138 kV transmission line from the existing Michigan Electric Transmission Company transmission line to the TB Simon Power Plant.
  o Installation of a larger capacity substation, consisting of two 50 MVA transformers, at the TB Simon Power Plant with space for a future third transformer and connection to the new switch house installed by FRIB.
  o Installation of a substation along the Michigan Electric Transmission line.
Impact

- Installation is being performed by Consumers Energy.
- Limited duration road closures of Bennet and Forest roads, and Pavilion drive, April thru June 2016.
- Site restoration will be performed by the Infrastructure Planning and Facilities, Landscape Services department.
- Critical coordination of energizing the system with TB Simon Power Plant and FRIB.

Schedule:

- Construction start: January 2016
- Power available: March 2017
Consumers Energy substation

138 kV underground transmission line

METC Electric Transmission line
Final restoration efforts – Forest Akers holes five and six
Bore sleeve and conduits beneath CSX railroad
Conduit risers within the Spartan Substation
Cable splicing manhole
Construction representative:
Chris Barnes
cbarnes@ipf.msu.edu
(517) 355-1628
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Construction Junctions continue monthly

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

- July 7
- August 7
- September 7

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