CONSTRUCTION PLANNING AND PROGRESS MEETING
BROUGHT TO YOU BY INFRASTRUCTURE PLANNING AND FACILITIES
Thursday, October 8, 2015

Twitter hashtag #msuconstruction
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**

- **Project updates**
  - 1855 Place
  - Grand Rapids - real estate and research facility development
  - Children's Garden - restroom and sewer line
  - MSU Community Music School - reconstruct parking lot
  - Parking - Lot 97 (Engineering Research) expansion
  - New Intercollegiate Golf Building
  - Munn Ice Arena - seating updates
  - Bio Engineering Facility
  - Berkowitz Basketball Complex - alterations to basketball offices
  - Owen Graduate Hall - renovate Sparty's
Step 1: Authorization to plan

- Parking – Lot 89 – Commuter Lot – repave southeast section
- Music Practice Building – replace windows
- Interdisciplinary Science – STEM Teaching Facility – construct original building

Step 2: Authorization to proceed

- Breslin Student Events Center – facility upgrades
- Food Processing and Innovation Center
- Hubbard Hall – exterior masonry repair 2016
Step 2: Authorization to proceed

- Engineering Building – alterations to suite 1515
- Sheep Barn – addition 2 – Sheep Lambing and Research Facility
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)**
  - RHS offices
  - Intercollegiate Athletics offices
  - Retail
- **438,000 square foot student apartments**
  - Single student apartments (Studio, 2BR, 4BR)
  - Family housing apartments (1BR, 2BR)
- **Parking (2,075 spaces)**
  - Student (apartments)
  - Event staff
  - Deck
- **Funding Source – auxiliary funds**
  - RHS
  - Intercollegiate Athletics
  - Parking
### Timeline

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

#### Gantt Chart

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Site selection and existing conditions
Site plan
Phase one site phasing plan – September 2015

1855 Place
October 2015
Phase one site phasing plan – November 15, 2015
Building E – family housing
Preliminary site phasing plan – phase two
Single student housing – Buildings B and C
Building D
Office\mixed-use building – first-floor plan

1855 Place
October 2015

Harrison Road

Plaza

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

Project representative: 
Andy Linebaugh
alinebau@ipf.msu.edu
(517) 432-7103

Construction Manager: 
Walbridge
T Clemens
TClemens@walbridge.com
(313) 304-5199

1855 Place 
Project phase: Construction

MSU is at a crossroads for creating and implementing an integrated, comprehensive strategy for providing housing to its various constituents and incorporating those housing decisions into the use, development, and redevelopment of its land. Many of the factors responsible for the current situation are identified in the Residential and Hospitality Services (RHS) Strategic Plan 2013-2023.

The RHS Strategic Plan has identified family housing and apartment-style housing as important to the MSU mission. However, various facilities which have met these needs in the past are no longer available. The Cherry Lane and Faculty Bricks apartments were demolished in 2011 after exceeding their life expectancy. The apartments located at Spartan Village have outlived their useful life, and repair, maintenance, and renovation have become cost-prohibitive. The Board previously authorized the Administration to proceed with the demolition of certain parts of Spartan Village. Recent plans call for the expansion of Spartan Village, consistent...
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
  - Downtown convention center
  - Medical mile
  - Transportation planning
  - River restoration project
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
Schedule

- Construction start: June 2015
- Substantial completion: July 2017
Grand Rapids – real estate and research facility development
October 2015

Site progress

October 1

March 23
Atrium collaboration space – 3D section
Rendering of atrium
Rendering of exterior
Rendering of exterior view from Monroe Street
Michigan Street and Monroe Avenue Plaza
Project webcam

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

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(517) 999-9194

Construction Manager:
ClarkRockford JV
Chad Webster
cwebster@clarkcc.com
(231) 344-2063
Children's Garden - restroom and sewer line
October 2015
Why?

• Provide accessible, family restrooms adjacent to children’s garden, replacing the portable units.
Project goals

• Increase safety for children. (The nearest restrooms are in the Plant and Soil Sciences Building and require walking through the parking lot.)
• Encourage efficiency of programs with nearby facilities.
• Accommodate ADA needs for all garden visitors and staff.
• Facility to be easily cleaned and maintained
• Expand Creation Station, restoring existing pergola and installing new demonstration table

Scope

• Building will include two restrooms and a mechanical room; approximately 360 square feet.
• Occupancy sensors, as well as natural light, are planned.
• Building will automatically lock, accommodating seasonal hours.
• Two drinking fountains will be located on entry exterior.
Site plan

- Children's Garden
- Restroom and sewer line
- October 2015

- (2) Drinking fountains
- Restroom
- Restroom
- Mechanical / Storage
- Patio expansion
- Smith schoolyard
- Creation station
- Railroad fence
Children's Garden - restroom and sewer line
October 2015

Front elevation – rendering

Current actual
Creation Station
Milestone completion dates

- Site work – October 7
- Epoxy flooring – October 9
- Concrete flatwork – October 13
- Completion – October 16
Construction representative:
Carol Cool
ccool@ipf.msu.edu
(517) 353-8619
Why?

• Reconstruct and reconfigure the existing parking lot to meet MSU standards, including:
  o Safety
  o Accessibility
  o Reuse of existing site lighting
  o Pavement design
  o Storm water management

• Demolish existing house
Phasing

MSU Community Music School – Reconstruct Parking Lot

October 2015

This is Phase One Work Area

This entrance will be used during Phase One.

This area will be open for parking during Phase One of the project.
August 3
August 4
August 12
August 21
August 26
August 28
September 2
Construction representative:
Carol Cool
ccool@ipf.msu.edu
(517) 353-8619

MSU Community Music School – Reconstruct Parking Lot

Project phase: Construction

The MSU Community Music School moved to Hagadorn Road in 2012. The building was renovated at that time, including minor site modifications for accessibility. The parking lot requires a thorough reconstruction to bring materials and design up to MSU's standards. In addition, there is a house on the property that is not in the university's long-range plans.

This project is anticipated to include removal and replacement of entire parking lot. Subject to available funding, the project will also investigate removing the house on the property.

Project details:
Reconstruct the existing parking lot to meet MSU standards including:
- safety
- accessibility
- LED lighting
- pavement design

The MSU Community Music School is located east of Hagadorn Road near the east end of Shaw Lane.

Timeline
Start of construction: June 15, 2015
End of construction: August 31, 2015
Why?

- The existing pavement was in need of replacement whether the lot was expanded or not.
- Provides additional parking capacity near the new Bio Engineering Facility, adding approximately 260 parking spaces to the existing 201.
- Reconstructs lot to meet current standards for safety, accessibility, storm water management, lighting efficiency and pavement.
- Entire lot, excluding perimeter drive, is pervious pavement.
  - Aggregate allows for water to escape more easily, and filter to groundwater more slowly. Also aids with snow melt.
  - Requires more cautious maintenance
Parking Lot 97 – (Engineering Research) Expansion
October 2015

Pre-construction

Post-construction

Porous pavement
Plantings to be removed

Remove (12) existing Ash trees, replacing with transplanted Elms and other more durable species.

Remove and replace or transplant (11) Whitespire Manchurian Birch trees.

Transplant (4) Accolade Elm trees.

Remove (3) Norway Spruce trees.
Finished lot – saved trees
Finished lot
Construction representative:
Carol Cool
ccool@ipf.msu.edu
(517) 353-8619

Parking Lot 97 – (Engineering Research) Expansion
October 2015

Parking Lot 97 (Engineering Research) Expansion
Project phase: Construction

Parking Lot 97 was originally constructed with the Engineering Research Complex in 1986. 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.

Project Details:
- Add approximately 260 parking spaces to the existing 201, totaling 461 spaces.
- Reconstruction to meet current standards for safety, accessibility, storm water management, lighting efficiency and pavement.
- Existing and new parking lot lighting will be LED.
- Demolished concrete curb and walk material will be recycled as pavement base.
- Material long-term change to the landscape.

The project is located adjacent to the Engineering Research Complex, south of Service Road and east of Bogue Street in the south academic district.
New intercollegiate golf facility
October 2015

Intercollegiate Golf Facility
Why?

• The existing intercollegiate golf facility was built in 1958.
• Built with residential-grade construction, the building requires ongoing maintenance.
• The conversion of the outdoor pavilion into an indoor practice area in 2006 served to extend the building’s functionality, but falls far short in comparison to competing Big Ten facilities.
• A new facility is necessary to enable the recruitment, training and development of future athletes and to ensure continued success of the MSU Golf Team.
Project scope:

- **Site work to include:**
  - More prominent entry
  - Parking
  - Utilities
  - Landscaping

- **New building to include:**
  - Coaching offices
  - Locker rooms
  - Indoor practice green
  - Public/player lounge/gathering space
  - Public restrooms
  - Small weight training area
  - Small club repair room
  - Display space
Impacts:

- All areas of the west course to remain open
- Periodic traffic impacts to facilitate material deliveries

Schedule:

- Construction start: May 2015
- Ready for occupancy: January 2016
New intercollegiate golf facility
October 2015

Rendering of front exterior
New intercollegiate golf facility
October 2015

Front exterior view
Indoor practice facility
Exterior of indoor practice facility

New intercollegiate golf facility
October 2015
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
(517) 432-4355

New intercollegiate golf facility
October 2015

New Intercollegiate Golf Facility

Project phase: Construction
The existing intercollegiate golf facility was originally built in 1956 as a pro shop for the Forest Akers Golf Course, and renovated into the Paul Reaick Golf Center in 2003. Built with residential grade construction, the building currently requires ongoing maintenance. The conversion of the outdoor pavilion into an indoor practice area in 2006 served to extend the buildings functionality but falls far short in comparison to competing Big Ten facilities. A new facility is necessary to facilitate the recruitment, training, and development of future athletes and ensure continued success of the MSU Golf Team.

Project details
The project is anticipated to include:
- a more prominent entry;
- parking;
- utilities;
- landscaping;
- coaches’ offices;
- locker rooms;
- indoor practice green;
- public and player lounges and gathering spaces;
- public restrooms;
- small weight training area;
- club repair;
- display space.

The project is located within the Forest Akers Golf Course, with an entrance on Harrison Road, in the athletic and recreation district.
Why?

- To update old bench seating with new benches on the east and west ends and seat backs on the north and south ends
- Provide new barrier-free seating
- Install new drink-top bars

Timeline

- Construction Start: May 2015
- Ready for occupancy: June 2015
Impacts

• Seating will be unavailable until new seats are installed

• Small areas around the concourse will be periodically blocked off throughout the duration of the project
Newly installed bench and self-rising seating
One of several, new barrier-free seating areas
Ramped barrier-free seating on the north end of the concourse
One of the several drink top bars located along the concourse
Construction representative:
Todd Wilson
tdwilson@ipf.msu.edu
(517) 432-4355
Bio Engineering Facility
Why?

- This project involves a four-story research lab building that is designed to facilitate interdisciplinary research and interaction among all occupants.

- 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
- Ready for occupancy: December 2015
Impacts

• The north drive off of Service Road, east of the Life Science building has been removed.

• Life Science loading dock access is now from the South off Woodlot Dr.

• There will be increased construction traffic.
View of the north building façade
View of the connector bridge, looking south
View of the site – looking north from the fourth floor of the building
View of the first floor, looking west – standing in the north write-up space
View from the fourth floor, looking north – standing in the atrium
View from the first floor, looking north - standing in the atrium
Terrazzo flooring being installed in the atrium
Construction Representative:
Ken Gottschalk
kjgottsc@ipf.msu.edu
(517) 353–7234

Bio Engineering Facility
Project phase: Construction

The construction of the Bio Engineering Facility will provide a unique opportunity to bring together research teams from engineering and biomedical research to promote the development of bio-engineering and engineering health sciences at Michigan State University. These emerging research areas have significant opportunities for increased federal research funding, as well as for technology transfer to the private sector, which can promote the development of a transformational bio-based economy in Michigan.
Why?

• The Men’s intercollegiate basketball program has had extraordinary success, including multiple NCAA tournament appearances, Final Four appearances and the 1979 and 2000 Men’s National Championships.

• The coaches’ offices and meeting rooms no longer met expectations for programs of this caliber and needed functional, technological and cosmetic upgrades.
Scope

• Renovations included:
  o Furniture replacement
  o Finish upgrades
  o Increased storage space
  o Display improvements

• Focus was on reception area, circulation corridors, film viewing room, coaches conference room and copy room.
Schedule

- Construction start: May 2015
- Ready for occupancy: August 2015
Berkowitz Basketball Complex – alterations to basketball offices
October 2015

Area of work – men’s basketball offices
Reception area, looking south
Reception area
Coaches’ offices corridor
Video viewing room
South patio
Construction representative:
Kevin Durkin
Kdurkin@ipf.msu.edu
(517) 432-2153
Why?

• To provide faculty/staff/students the option of purchasing pre-packaged and convenience food items in addition to the existing meal venue options

Timeline

• Construction start: May 14
• Ready for occupancy: August 20
Riverwalk view
Renovated west entrance
Four refrigerators added
Additional shelving provided for merchandise
New salad bar
Construction representative:
Tony Rhodes
arhodes@ipf.msu.edu
(517) 432-7104
IPF website

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  - Detours
  - CJ info
  - Project info
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Construction Junctions continue monthly

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

• November 12 (College of Law, room 343)
• December 10 (TBD)
• January 14 (TBD)

Please sign in and take a survey before you go!