Auburn Facilities

Board of Trustee Meetings
November, 2010
And
February, 2011

Dan King
February 15, 2011
Board of Trustees Meeting

November 12, 2010
Board of Trustees Meeting: November 2010
Property and Facilities Committee Agenda Items

Joint Agriculture and Property & Facilities Committees

1. Biological Engineering Research Laboratory

Property & Facilities Committees

2. Band Rehearsal Pavilion
3. Center for Advanced Science, Innovation, and Commerce (CASIC)
4. Alpha Psi Veterinary Fraternity
5. Status Reports
Biological Engineering Research Laboratory
Approval of Project Requirements, Budget, Funding Plan and Schematic Design

• Project Requirements: Renovation of the Agricultural Engineering (Corley) Annex Building to transform the 21,000 square feet facility into contemporary, multidisciplinary biological engineering research laboratories and laboratory support space.

• Budget: $6,400,000

• Funding Plan: $5,000,000 National Science Foundation Grant and $1,400,000 from Alabama Agricultural Experiment Station
Biological Engineering Research Laboratory

Approval of Project Requirements, Budget, Funding Plan and Schematic Design
Band Rehearsal Hall: Phase I-Pavilion Construction
Approval of Site, Project Requirements, Budget, Funding Plan and Schematic Design

• Project Requirements: Executed in two phases:
  1st Phase – Construction of a 6,600 square foot steel frame and brick structure and restrooms. Pavilion to shelter the band members from inclement weather.

• Site: Northwest corner of the Band Practice Field, adjacent to West Campus Parking off of Hemlock Drive.

• Budget: Estimated at $800,000

• Funding Plan: College of Liberal Arts
Band Rehearsal Hall: Phase I-Pavilion Construction

Schematic Design
Center for Advanced Science, Innovation, and Commerce (CASIC)

Approval of Facility Program, Site, Budget, Funding Plan and Schematic Design

- Project Requirements: Construction of a 73,000 gross square foot building to include laboratory units, support space, training room/conference space and a central gathering and display space.

- Site: Auburn University Research Park

- Budget: $28.9 million

- Funding Plan: National Institute for Standards and Technology (NIST) Grant and Auburn University funds
Center for Advanced Science, Innovation, and Commerce (CASIC)

Site

MRI Building

Research Park Building I

CASIC
Center for Advanced Science, Innovation, and Commerce (CASIC)

Architectural Renderings
NOW, THEREFORE, BE IT RESOLVED by the Board of Trustees of Auburn University that Jay Gogue, President, or such other person as may be acting as President, be and the same is hereby authorized and empowered to:

1. Establish a total project budget in the amount of $28.9 million to be funded by the National Institute for Standards and Technology (NIST) and matching funds from Auburn University.

2. Direct the consultants to complete the required plans for the project.

3. Solicit bids for construction conditioned upon the ability of sufficient funding as approved by the President.

4. Award a contract for construction conditioned upon the lowest responsible and responsive bid being consistent with the project budget.
Alpha Psi Veterinary Fraternity:
Request to Approve a Lease

Key
- Proposed Location
- Existing Fraternities
Student Housing Facility and Samford and Donahue Parking & Transportation Facility

Approval of Project Initiation; Designation as Expedited Project; and Selection of Design Consultants and Construction Manager

Proposed Project Scope:

1. In lieu of renovating Sewell Hall, replace it with a 300-400 bed student housing facility on that site; and

2. Construct a parking and transportation facility on the corner of West Samford Avenue and Donahue Drive to increase overall parking capacity on campus and to support the student housing facility;

3. Execute both projects jointly;

4. Goal is to have both facilities ready for the 2012-2013 academic year.
Student Housing Facility and Samford and Donahue Parking & Transportation Facility
Auburn Facilities

Campus Parking Update

Dan King, AVP Facilities
February 15, 2011
Auburn University Parking Analysis
What is Possible—Potential Parking Structure Sites

Existing Parking Structures
Potential Parking Structure Sites
10 Minute Walk

Potential Parking Structure Sites
(1) NE Quadrant of Campus
(2) Biggio Dr (BEMC Site)
(3) Samford and Donahue
(4) Magnolia and Donahue
(5) Hotel & Conf. Center
(6) Samford and Duncan
(7) Sewell Hall
(8) Gay St and Miller Ave
(9) Old KA Lot
(10) Wire Road at CDV
(11) Funchess
(12) Old Hutsell Track
# Auburn University Parking Analysis

## Parking Structure Recommendations for Capital Projects Plan 2010-2020

<table>
<thead>
<tr>
<th>Existing Parking Structures</th>
<th>Potential Parking Structure Sites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended Parking Structures</td>
<td>(1) NE Quadrant of Campus</td>
</tr>
<tr>
<td>10 Minute Walk</td>
<td>(2) Biggio Dr (BEMC)</td>
</tr>
<tr>
<td></td>
<td>(3) Samford and Donahue</td>
</tr>
<tr>
<td></td>
<td>(4) Magnolia and Donahue</td>
</tr>
</tbody>
</table>

Note: The NE Quadrant and Biggio Drive parking structures are currently included in the 2010-2020 Capital Projects Program.
## Auburn University Parking Analysis

### Parking Structure Recommendations for Capital Projects Plan 2010-2020

<table>
<thead>
<tr>
<th>Parking Structure</th>
<th>Total Spaces</th>
<th>Net Spaces</th>
<th>Project Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. NE Quadrant of Campus:</td>
<td>600</td>
<td>522</td>
<td>$14.4 M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Biggio (Old BEMC Site):</td>
<td>1300</td>
<td>838</td>
<td>$14.8 M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Samford &amp; Donahue:</td>
<td>1000</td>
<td>916</td>
<td>$14.5 M</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Magnolia &amp; Donahue:</td>
<td>1200</td>
<td>675</td>
<td>$13.7 M</td>
</tr>
</tbody>
</table>

Supports Faculty/Staff & Special Events

Supports Commuting Students, Athletic Sector, and Special Events

Supports Faculty/Staff, Commuting Students, and Special Events

Totals: 4,100 2,951 $57.7 M
Auburn University Parking Analysis

Recommended Actions to Take to Improve Parking

1. Consider operational changes, fee structure, and traffic control measures for short term, night time special events.

2. Initiate a detailed parking study for the AU campus.

3. Consider adding parking structures to the Capital Projects Program.
Auburn Facilities

Recommendations for Pedestrian Safety Improvements on Magnolia Ave and College Street

February 2011
Background

• In response to recent pedestrian accidents, Auburn University took the following actions:
  – Worked with City of Auburn to implement temporary safety improvements on Magnolia Ave.
  – Improved street lighting on Magnolia
  – Initiated traffic study to identify permanent improvements

• Traffic Study is now Complete.

• Need to develop University consensus on actions to take to improve pedestrian safety.

• Need to develop joint plan with City of Auburn

• Target implementation goal: 2011 & 2012
Traffic Study

• Traffic Study consisted of:
  
  – Traffic counts
  – Speed surveys
  – Observation of pedestrian crossing patterns
  – Evaluation of lighting
  – Evaluation of midblock crosswalks against criteria
  – Utilized Federal Highway Safety Standards
  – Reviewed by AU Traffic and Parking Committee
  – Performed by Skipper Consulting in association with Holcombe Norton Partners and Civil Design and Consulting
Traffic Study Recommendations
Version I - Minimal

• Magnolia Avenue:
  – Maintain all (seven) midblock crosswalks
  – Install overhead-mounted electronic signs at both ends announcing entrance to pedestrian area
  – Add pieces of median where possible (3 places) to provide pedestrian “refuges” and effect traffic-calming
  – Replace painted crosswalks with concrete/stamped concrete to improve visibility, encourage usage, and further send message of high pedestrian area
  – Sidewalk adjustments
Traffic Study Recommendations
Version I - Minimal

- College Street:
  - Maintain & improve midblock crosswalk on College Street at Ingram Hall; add pedestrian landing for better visibility; concrete and brick crosswalk; add pedestrian crossing signal
  - Add median between Roosevelt and Thach for traffic calming
  - Extensive sidewalk and fencing/railing to prevent jay-walking
Traffic Study Recommendations
Version II - Optimal

• Magnolia Avenue:
  – Version I PLUS –
  – Remove existing post & chain fencing and bollards, and install ornamental fencing/railing to channelize pedestrian towards the seven midblock crosswalks

• College Street:
  – Version I PLUS –
  – ADD midblock crosswalk at Library, longer median, and pedestrian crossing signal
  – ADD midblock crosswalk at Funchess, long median for refuge and traffic-calming, and pedestrian crossing signal
Staff Recommendations

- Developed in consultation between Facilities staff and Traffic & Parking Committee.

1) Implement Version II with a “Medians & Crosswalks First” Approach (also known as “in-road work”)
   - Medians and signals are felt to provide the greatest improvements to pedestrian safety.
   - Cost: $2.1 Million
   - Extensive consultation/negotiation needed with City of Auburn

2) Observe impact of medians and crosswalks after installation is complete to assess the need by way of fencing/railings. “channelization”
   - Limited fence openings will not be pedestrian “friendly”
   - Extensive fencing/railing may look/feel like a “fortress”
   - May be able to avoid $1.8 Million cost.
West Magnolia Avenue Improvements
West Magnolia Avenue Improvements
Donahue to College – Section I
West Magnolia Avenue Improvements
Donahue to College – Section II
West Magnolia Avenue Improvements
Donahue to College – Section III
South College Street Improvements
South College Street Improvements
Magnolia to Thach
South College Street Improvements
Thach to Roosevelt
South College Street Improvements
Roosevelt to Samford
# Pedestrian Safety Improvement Costs
## Recommended Version II

<table>
<thead>
<tr>
<th>Roadway Section</th>
<th>Roadway, Crosswalk, Lighting and Traffic</th>
<th>Hardscape, Fencing, and Landscaping</th>
<th>SubTotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Magnolia Ave—Donahue to Lowder</td>
<td>$127,143</td>
<td>$229,286</td>
<td>$356,429</td>
</tr>
<tr>
<td>B. Magnolia Ave—Shelby to Textiles</td>
<td>$69,000</td>
<td>$120,857</td>
<td>$189,857</td>
</tr>
<tr>
<td>C. Magnolia Ave—Ramsay to Biggin</td>
<td>$148,571</td>
<td>$149,000</td>
<td>$297,571</td>
</tr>
</tbody>
</table>

| Magnolia Ave SubTotal                | $344,714                                 | $499,143                            | $843,857   |

| D. College Street—Biggin to Samford  | $403,000                                 | $94,857                             | $497,857   |
| E. College Street--RBD Library       | $628,286                                 | $600,143                            | $1,228,429 |
| F. College Street--Funchess Hall     | $760,000                                 | $614,143                            | $1,374,143 |

| College Street SubTotal              | $1,791,286                               | $1,309,143                          | $3,100,429 |

| Total Project Budget                 | $2,136,000                               | $1,808,286                          | $3,944,286 |
Donahue Traffic Improvements

Base Bid: Donahue-North Heisman
- 4-way traffic Control Signal System w/Pedestrian Features

Add Alternate One: Former Intersection of Donahue & Thach
- Raised Crosswalk and Speed Table
- Pedestrian Crossing Signal System

Traffic Signals on Donahue (Bragg Avenue to Lem Morrison) will be coordinated for efficient flow of traffic.
COMPREHENSIVE MASTER PLAN
2010 UPDATE

Facilities Advisory Committee Meeting
February 15, 2011
***Program Needs***
- Buildings and Space Needs
- Site Needs
- Infrastructure

***Buildings and Space Needs***
- Program Needs
- Community Issues
- Expectations
- Aspirations

***Site Needs***
- Strategic Plan
- Growth/Demographics
- Community Issues
- Expectations
- Aspirations

***Infrastructure***
- Core Values
- Goals and Objectives
- Planning Framework
- Future Vision for Campus
- Campus Design

***Strategic Plan***
- Graphics
- Maps
- Drawings
- Writings
- Web Site
- Processes

***Growth/Demographics***
- Priorities
- Funding
- Capital Plng.

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**PROJECT TIMELINE**

Comprehensive Master Plan 2012 Update

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**PROCESS SCHEDULE**

**Comprehensive Master Plan 2012 Update**

**PROJECT TIMELINE**

**PHASE 1**
- Develop Process
  - Strategic Plan
  - Growth/Demographics
  - Community Issues
  - Expectations
  - Aspirations

**PHASE 2**
- Strategic Direction
  - Program Needs
  - Buildings and Space Needs
  - Site Needs
  - Infrastructure

**PHASE 3**
- Identify Facilities Needs
  - Core Values
  - Goals and Objectives
  - Planning Framework
  - Future Vision for Campus
  - Campus Design

**PHASE 4**
- Planning Parameters
  - Graphics
  - Maps
  - Drawings
  - Writings
  - Web Site
  - Processes

**PHASE 5**
- Shape Plan
  - Priorities
  - Funding
  - Capital Plng.

**PHASE 6+**
- Implement
  - 4th Planning Session Jan. 25-28
  - 5th Planning Session Feb. 8-11
  - 6th Planning Session Mar. 7-10

**PHASE 1**
- 3 Pre-Planning Sessions Complete

**PHASE 2**
- 4th Planning Session Jan. 25-28

**PHASE 3**
- 5th Planning Session Feb. 8-11

**PHASE 4**
- 6th Planning Session Mar. 7-10

**PHASE 5**
- BOT Adoption Dec 2012

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**PROJECT TIMELINE**

Comprehensive Master Plan 2012 Update
PHASE 2: IDENTIFY NEEDS

• Program Needs
• Buildings and Space Needs
• Site Needs
• Infrastructure
 Consultant: JBA Inc.
 Reference Manual/Space Needs Assessment
  • *Typology Workshops*
    → **Space Model**
    (based on FICM space types)
  • *College/School/Unit Workshops*
    → **Program Direction Matrix**
    (based on the Strategic Plan)
SCHEDULE

Master Planning Session #4: Jan. 25-28

- 7 College/School/Unit Workshops
  - College of Science and Math.
  - College of Education
  - College of Liberal Arts
  - College of Human Sciences
  - School of Pharmacy
  - School of Nursing
  - Library

Master Planning Session #5: Feb. 8-11

- 4 College/School/Unit Workshops or Follow Up
  - College of Liberal Arts
  - Graduate School
  - Library
  - VP Research

- 1 Space Typology Workshops
  - Research Labs
PHASE 2: IDENTIFY NEEDS
Comprehensive Master Plan
2012 Update

❖ SCHEDULE

❖ Master Planning Session #6: Mar. 7-10
  ▪ **2 College/School/Unit Workshops**
    College of Agriculture    VP Research
    Graduate School
  ▪ **3 Space Typology Workshops**
    Classrooms    Offices
    Clinics

❖ **Milestone 1: April 2011**
  ▪ *Presentation & Evaluation of Update and Programming Processes*
**Milestone Presentations**
- 04/2011 – Update & Programming Process
- 10/2011 – Programming & Planning Parameters
- 03/2011 – Update & Programming Process
- 08/2011 – Update & Programming Process

**Board of Trustee Presentations**
- 11/2011 – Update & Programming Process
- 04/2012 – Programming & Planning Parameters
- 09/2012 – Update & Programming Process

**Future Continuous Update Process**
QUESTIONS
Auburn Facilities

Summer Construction Projects

Ron Booth
February 15, 2011
Summer 2011 Construction

• May 10 – August 15, 2011
• Varying Size & Type Projects
• Construction Activities Actively Underway
• Most to be Complete by August 15th, 2011; Others to Continue Beyond Summer
• No Known Coordination Issues At This Time
• 61 Campus Projects
• 7 Projects Beyond Map Limits
• 5 Ongoing Campus-Wide Projects
Overall Plan

Auburn University Facilities will work to reduce energy usage, utility consumption, energy costs, and the University’s carbon footprint by utilizing the following strategies:

- Increased efficiency of utility production and distribution systems
- Improved performance and efficiency of University building systems.
- Increased use of energy saving or energy efficient technologies and operational best practices.
- Increased energy awareness and energy conservation efforts by all AU Faculty, Students and Staff.
Auburn Facilities Energy Goals

I. To reduce the overall consumption of purchased electricity (kWh) for the University a minimum of 5% by 2020 when compared to a 2010 baseline. This consumption number will include future growth of the campus.

II. To reduce the overall consumption of purchased gas (MMBtu) for the University a minimum of 5% by 2020 when compared to a 2010 baseline. This consumption number will include future growth of the campus.

III. To reduce the overall consumption of purchased water (kGal) for the University a minimum of 5% by 2020 when compared to a 2010 baseline. This consumption number will include future growth of the campus.
Auburn Facilities Energy Goals

IV. To reduce the overall average electricity energy intensity (kWh use per square foot) of Auburn University facilities 10% by 2015 and 15% by 2020 when compared to a 2004 baseline.

V. To reduce the overall average water use intensity (kGal use per square foot) of Auburn University facilities 20% by 2015 and 30% by 2020 when compared to a 2007 baseline.

VI. To improve utility plant efficiency 5% by 2015 and 10% by 2020 when compared to a 2011 baseline.
VII. To reduce domestic water, natural gas, chilled water, and hot water utility distribution system losses 50% by 2015 and 75% by 2020 when compared to a 2012 baseline.

VIII. To have utility plant and building energy systems operations and maintenance programs managed and conducted using industry best practices.