New Capital Projects Update ~
Facilities and Campus Services

Faculty Senate
November 18, 2010
PROJECT UPDATE

- Bowditch Greenhouse
- Marching Band Building
- Commonwealth Honors College Residential Complex
- Southwest Concourse Replacement
- New Police Station
- New Laboratory Science Building
- New Academic Classroom Building
POLICE STATION

$12.5M

27,130 GSF

Construction began October, 2009

Occupy – February, 2011

Targeting LEED Gold.
POLICE STATION

SITE PLAN
POLICE STATION
1st FLOOR PLAN

University of Massachusetts, Amherst Police Department
First Floor Plan
Floor Area: 11,420 gsf
Total Building Area: 27,130 gsf

Program Legend:
- Senior Administration
- Special Units
- Evidence & Property Unit
- Detention Areas
- Circulation, Storage, & Mechanical Areas
- Emergency Operations Center Areas
- Patrol & Operational Units
- Police Information Technology & Security
- Emergency Dispatch
- Administrative Services & Accreditation Unit
- Records & Information Services Unit
- Fitness & Locker Areas
POLICE STATION
2nd FLOOR PLAN

University of Massachusetts, Amherst Police Department
Second Floor Plan
Floor Area: 7,879 gsf
Total Building Area: 27,130 gsf

Program Legend:
- Senior Administration
- Specialty Units
- Evidence & Property Unit
- Detention Areas
- Circul a tions, Storage, & Mechanical Areas
- Police Information Technology & Security
- Emergency Dispatch
- Administrative Services & Accreditation Unit
- Conference & Meeting Rooms
- Patrol & Operational Units
- Investigations Unit
- Records & Information Services Unit
- Fitness & Locker Areas
- Emergency Operations Center Areas
POLICE STATION

LOWER LEVEL FLOOR PLAN

University of Massachusetts, Amherst Police Department
Lower Level Floor Plan
Floor Area: 7,831 gsf
Total Building Area: 27,130 gsf

Program Legend:
- Senior Administration
- Specialty Units
- Evidence & Property Unit
- Detention Areas
- Circulation, Storage, & Mechanical Areas
- Police Information Technology & Security
- Emergency Dispatch
- Administrative Services & Accreditation Unit
- Conference & Meeting Rooms
- Patrol & Operational Units
- Investigations Unit
- Records & Information Services Unit
- Fitness & Locker Areas

UMass Amherst
GEORGE N. PARKS MARCHING BAND BUILDING

$5.7M
15,000 GSF

Construction Phase

Occupy – Spring, 2011

Targeting LEED Silver+
GEORGE N. PARKS MARCHING BAND BUILDING
SITE PLAN
GEORGE N. PARKS MARCHING BAND BUILDING

PROGRAM INCLUDES

- Rehearsal Hall for 400
- Band Offices
- Instrument Storage and Maintenance Spaces
- Uniform Storage
- Sectional Practice Spaces
GEORGE N. PARKS MARCHING BAND BUILDING

BUDGET

• $5.7 Million TPC

• $4.5 Million Committed by UMass

• $1.2 Million of Pledged Donations
BOWDITCH GREENHOUSE

$7.5M

15,000 GSF New
3,500 GSF Renovated

Construction Phase

Occupy – Spring, 2011

• A Teaching & Research Facility
• Replacing French Greenhouse
BOWDITCH GREENHOUSE
BOWDITCH GREENHOUSE
SOUTHWEST CONCOURSE REPLACEMENT

$12M UMBA

Two-Phased Project

Phase 1 Completed: Fall, 2009

Phase 2 Scheduled for Completion: Spring, 2011
SOUTHWEST CONCOURSE REPLACEMENT

EXISTING CONDITIONS
• Create a landscape that embodies the Pioneer Valley.

• Create user-friendly spaces.

• Sustainability as a landscape precedent.

• Landscape as classroom.
SOUTHWEST CONCOURSE REPLACEMENT
SITE PLAN
SOUTHWEST CONCOURSE REPLACEMENT

TUNNEL AND STORM WATER GARDEN
SOUTHWEST CONCOURSE REPLACEMENT
TUNNEL, FOREST LANDSCAPE
NEW LABORATORY SCIENCE BUILDING

$156.5M
308,000 GSF
Completion scheduled for fall, 2012
Targeting LEED Gold
NEW LABORATORY SCIENCE BUILDING

MAXIMIZING EFFICIENCY; MINIMIZING TOTAL PROJECT COST

NLSB 1
- $100M complete
- Occupancy 9/2012

NLSB 2
- $56.5M shell
- Complete 9/2012
- $51M fit-out
- 10/2012 and after

381 Faculty & Staff
34 Principal Investigators

Human Health
Genomics
Proteomics
Cell Engineering

358 Faculty & Staff
40 Principal Investigators

New Integrated Sciences Building
Occupied 6/2009

UMassAmherst
NEW LABORATORY SCIENCE BUILDING
LIFE SCIENCE PRECINCT
NEW LABORATORY SCIENCE BUILDING MODEL
NEW ACADEMIC CLASSROOM BUILDING
NEW ACADEMIC CLASSROOM BUILDING

GOALS

• Create adequate capacity
• Improve physical condition of inventory
• Improve balance of room sizes
• Relieve overcrowding
• Improve pedagogy
• Optimize use of spaces that don’t exist elsewhere on the campus
NEW ACADEMIC CLASSROOM BUILDING

• First step in long-term academic facilities plan
  • North Pond site selected in 2009
    • $85 million budget
      • GSF 150,000
  • To be completed January, 2014

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<th>± 50% Program Space</th>
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<tr>
<td>±1600 - 1800 Seats</td>
<td>± 45,000 NSF</td>
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NEW ACADEMIC CLASSROOM BUILDING

SURROUNDING BUILDINGS & LANDSCAPE

1. Sunken sculpture garden
2. Bluewall Cafe
3. Linden trees
4. Metawampe Statue / oak tree
5. Cork Tree (Waugh Arboretum)
6. Rhododendrons
7. Camous Pond
NEW ACADEMIC CLASSROOM BUILDING

GOALS FOR THIS SITE

- Currently – dead open space
- Activate the ground plane
- Connections to Campus Center, Student Union
- Enliven the campus core
- Enhance assets (pond, open space, etc.)

CLASSROOM USAGE
NEW ACADEMIC CLASSROOM BUILDING

PEDESTRIAN CIRCULATION

TOPOGRAPHY
NEW ACADEMIC CLASSROOM BUILDING

MASSING COMPARISON

VIEW 1 | VIEW 2 | VIEW 3

“BAR” SCHEME

“Z” SCHEME

“L” SCHEME
NEW ACADEMIC CLASSROOM BUILDING

LANDSCAPE

“L” SCHEME

LEGEND
Primary Circulation
Secondary Circulation
Tertiary Circulation
Desire Line
Service Access

CAMPUS CENTER
STUDENT UNION
HASBROUCK

SCALE 1”=100’-0"

SCALE 1”=100’-0"

Copley Wolff Design Group
Landscape Architects & Planners
NEW ACADEMIC CLASSROOM BUILDING

NORTH POND – SECTION A-A’

“L” SCHEME
## NEW ACADEMIC CLASSROOM BUILDING

### CLASSROOM MIX – PREFERRED OPTION

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<th>Type</th>
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<td>Table &amp; Chair – 80</td>
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<td>Table &amp; Chair – Stepped</td>
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<td>1</td>
<td>Case Study Room – L</td>
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<td>2</td>
<td>TBL – S</td>
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<td>2</td>
<td>TBL – M</td>
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<td>1</td>
<td>Screening Room – M</td>
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<td>15</td>
<td><strong>Grand Total</strong></td>
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NEW ACADEMIC CLASSROOM BUILDING

SUSTAINABILITY STRATEGY

• Targeting LEED Gold
• University wants to make this building as “green” as possible
• First project to use LEED Certification Guidelines by the UMass Green Building Committee
• Building to be used as a teaching tool for students and visitors
• Highlight the campus’ commitment to the environment
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

CAMPUS MAP – SITE LOCATIONS FOR RESIDENCE HALLS

1512 BEDS

$161M TPC
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

KEY SITE ISSUES

Boyden Courts Site

• Proximity to Campus Core
• Activates Campus Core
• Mitigation of Parking
• Mitigation of Animal Care
• Low Utility Costs
• Low impact on Transit Services
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX
SITE ANALYSIS : Organizing Principles
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

SITE ANALYSIS: Organizing Principles

SITE PATHS

- Existing
- Potential
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX
SITE ANALYSIS: Organizing Principles

OPEN SPACE
Level Changes
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

Total Program Area: 490,477 GSF

Building Footprint: 103,320 GSF
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

PROGRAM INCLUDES

• 600 Freshman Beds
  270 Double Rooms
  60 Single Rooms

• 912 Upper Class Beds
  178 Four-bed Suites
  50 Four-bed Apartments

• 2 Faculty Apartments

• 9 Classrooms

• Student Services
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

SITE ANALYSIS : Organizing Principles
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

REPLACEMENT PARKING

308 Spaces Required
  232 Permit Spaces
  63 Metered spaces
  13 Housing Support Spaces

A. Surface Parking at Dickinson Lot (70 spaces)
B. Expand ROTC Lot (88 spaces)
C. Expand Lot 33 (64 spaces)
D. Existing Parking Structure Campus Center (86 spaces)

(Estimated Lost Revenue to Parking Services of $55K/yr)
COMMONWEALTH HONORS COLLEGE RESIDENTIAL COMPLEX

OVERALL PROJECT SCHEDULE

Key Dates:

**November 1, 2010**
Begin Schematic Design
based on selected site and confirmed program

**February 14, 2011**
Schematic Design Approval

**June, 2011**
Design Development Complete and Budget Check

**October/November, 2011**
Start Construction

**September, 2013**
Occupancy
Master Plan
CAMPUS MASTER PLANNING

SCHEDULE

- Confirm Master Planning Process
- Participate in System Master Plans
- Build on Observation Report/Vision
- Assemble master plan program
- Create alternative plans
- Produce Draft Master Plan
- Produce Final Master Plan
- Planning and Design Guidelines
- District Plans where necessary

+ District Plans where necessary

- Planning and Design Guidelines
- Produce Final Master Plan
- Produce Draft Master Plan
- Create alternative plans
- Assemble master plan program
- Build on Observation Report/Vision
- Participate in System Master Plans
- Confirm Master Planning Process

2011
- Oct
- Nov
- Dec
- Jan
- Feb
- Mar
- Apr
- May

Summer
- Jun
- Jul
- Aug

2012
- Sep
- Oct
- Nov
- Dec
- Jan
- Feb
- Mar
- Apr
- May
- Jun
- Jul
- Aug
- Sep
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Faculty Senate
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