Agenda

Welcome
UMIT – Phone Landline Transition
Campus Planning
Design & Construction Management
Transportation Services
Physical Plant
Operational Services
Director of Transportation Services

- Supports UMass Transit, Fleet, and Parking Services.
- Extensive experience in public and private transit operations.
  - UCLA Fleet & Transit
  - United Airlines
  - MassDOT
  - MBTA Boston
- Advocate for zero emissions fleet operations and infrastructure.

Constance (Connie) Englert
UMIT – PHONE LANDLINE TRANSITION
CAMPUS PLANNING
CAMPUS PLANNING – EV CHARGING INFRASTRUCTURE PLAN
Electric Vehicle (EV) Charging Infrastructure Plan

Project Overview

Prepare an Electric Vehicle (EV) Charging Infrastructure Plan for the University of Massachusetts (UMass) Amherst aligned with increasing adoption rates of privately-owned EVs (i.e., those driven to/from the University by faculty, staff, students, and visitors).

Develop an EV Fleet Transition Plan that will guide the University in future fleet vehicle purchases and supplying associated infrastructure.
Electric Vehicle (EV) Charging Infrastructure Plan

Project Scope/Work Plan

TASK 1: INVENTORY AND ASSESSMENT OF CURRENT FACILITIES

- Inventory all publicly available electric vehicle supply equipment (EVSE) on and near campus
- Collect and assess data on current charging demand patterns
  - Number of monthly sessions, average charging time of sessions, average time of sessions, number of unique users
- Coordinate with the appropriate University Departments to identify locations with available electrical infrastructure and capacity
Electric Vehicle (EV) Charging Infrastructure Plan

Project Scope/Work Plan

**TASK 2: ANALYSIS OF CURRENT TRENDS AND THE REGULATORY ENVIRONMENT**

- Analyze current trends in EV adoption and charging requirements, including expected future demand and quantity and types of EVSE needed
- Survey targeted user groups (i.e., faculty, staff, students) to better understand their current and future needs
- Document the current and emerging policy and regulatory environment

**TASK 3: POLICY ANALYSIS AND DEVELOPMENT**

- Coordinate with internal stakeholders (Client ?) on the development of EVSE implementation policies, covering areas such as:
  - EVSE specifications
  - Financial and pricing structures
  - Purchasing
  - Signage and wayfinding
  - Maintenance
Electric Vehicle (EV) Charging Infrastructure Plan

Preliminary Data Needs

Electric Vehicle Charging Plan
- Existing EVSE inventory (power capacity, ports)
- Existing vendor contracts
- Existing session pricing and payment structures
- Usage of existing EVSE (i.e., monthly sessions, average charging time of sessions, average time of sessions, unique users)
- Parking inventory by allowed user group
- Electrical infrastructure and known capacities
- Electricity supply and percent renewable sourcing
- Average commuting distance by user group
- Number of existing BEVs/PHEVs by user group
- Findings of recent and relevant transportation
CAMPUS PLANNING – MOVE MANAGER
Liz joins the Campus Planning team with almost 20 years on campus at UMass Amherst. She has experience in Event Planning, Volunteer Management, Charitable Campaign Development and most recently as a Customer Service Representative in Facilities and Campus Services. Liz will manage all non-residential furniture warranties, assisting departments with the acquisition of previously owned furniture, budgeting and scheduling all campus moves, and managing enabling projects to prepare temporary space for departments to use while their permanent space is being renovated.

Liz has her Bachelors of Social Work from Western New England.
SUSTAINABLE ENGINEERING LABORATORIES (SEL) – COLLEGE OF ENGINEERING
Sustainable Engineering Laboratories (SEL) – College of Engineering
Option B1 was developed as a variation incorporating selected components of Options A and B, and was deemed the preferred option by the CoE. Key positives include leaving the existing steam line in place and avoiding the replacement cost, forming the building footprint to allow a wider centralized atrium space with visual connections across the floors and spaces for faculty, students, and the public to see engineering activity and research in the building.

The site positions the building for a loading dock at the west end which will also serve a future building addition, and provides a functional location for the cleanroom for loading as well as potential visibility of the cleanroom to the outside.

Concept plans and views are provided on the following pages.
Various strategies related to stormwater retention and treatment were discussed in the workshop meetings for site and sustainability. These include features that would be incorporated in the building, such as green and blue roofs and rainwater harvesting, and on the surrounding site. Further definition and evaluation of specific strategies will be undertaken in the subsequent building design phase.
Sustainable Engineering Laboratories (SEL) – College of Engineering
Sustainable Engineering Laboratories (SEL) – College of Engineering

- **2022**
  - Q1: Feasibility
  - Q2: Feasibility
  - Q3: Feasibility
  - Q4: Site Enabling

- **2023**
  - Q1: Concept
  - Q2: Concept
  - Q3: Design
  - Q4: Design

- **2024**
  - Q1: Construction
  - Q2: Construction
  - Q3: Construction
  - Q4: Construction

- **2025**
  - Q1: SEL Move-In
  - Q2: Classroom
  - Q3: CR Move-In

- **2026**
  - Q4: SEL Move-In
DESIGN & CONSTRUCTION MANAGEMENT
Energy Transition Recommendation

The chart illustrates the historical and forecasted energy transition for GHG emissions, focusing on key technologies such as Heat Trading with LTHW, Heat Pump Technologies, and Ground Source Heat Exchange. The timeline spans from 2010 to 2050.
Heat Trading
Trading heat instead of making it twice

- NETWORK OF BUILDINGS
- LOW-TEMPERATURE HOT WATER
- SIMULTANEOUS HEATING AND COOLING

Heat Recovery Chiller
Geothermal Ground Source Heating and Cooling

Using the ground as a heat source (for heating) & heat sink (for cooling)

2 MAJOR TYPES

VERTICAL
Deep bore holes or wells

HORIZONTAL
Pipes buried 5+ feet under a field or open space
High-impact learning, research, and engagement opportunities

**ENERGY TRANSITION: LIVING LAB EXPERIENCES**

- Applied Research
- Experiential Learning
- Courses
- Workforce Training
- Community Building
- Public Service Activities

**EDUCATION**

**RESEARCH**

**CAMPUS OPERATION**

- High Impact Collaboration & Training
DESIGN & CONSTRUCTION MANAGEMENT – GOODELL RENOVATION
THE GOODELL RENOVATION AT UMASS AMHERST
East Entrance

• Accessible Entrance
• Stack Backfill
## Proposed Space Plan

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<th>Proposed Area (NSF)</th>
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### Floor Plans

**Level 3**
- **AISP**
- **UNEXCAVATED**

**Level 4**
- **AISP**
- **STUDENT SUCCESS**
- **STONEWALL**

**Level 5**
- **AISP**
- **UNEXCAVATED**

**Level 6**
- **BERNIE DALLAS ROOM**
- **SHARED ROOM**
- **STUDENT SUCCESS**

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UMASS AMHERST GOODELL RENOVATION - PROGRAM DISTRIBUTION
Mobility Study and Improvements

- Desire for speed reduction strategies where possible
- Strive for consistent pedestrian crossing treatments
- Desire to convey a sense of arrival to campus
- Distracted driving and walking is prevalent
- Seek consistent signs and removal of older signs and flashers
- Aspire to provide cohesive bicycle accommodations and space for e-bikes and scooters
Summer 2022 Implementation

- Repainted pavement markings on N. Hadley Rd, Mass Ave, Comm Ave and Governors Dr with reflectorized thermoplastic paint
- Replaced 4-inch roadway edge line markings with 6-inch markings
- Added roadway edge lines where they were not previously present
- Provided a buffered bike lane on N. Hadley Road/Mass Ave corridor
- Prepared plan to remove and de-energize the outdated flashing electronic pedestrian crossing signs

- Implemented intersection-specific crosswalk upgrades at:
  - Mass Ave/University Dr
  - Mass Ave/Comm Ave
  - Mass Ave/Sunset Ave
  - Mass Ave/Lincoln Ave
  - Mass Ave/Presidents Dr
  - Mass Ave/SOM/Lot 34
  - Comm Ave/Honors College/Boyden
  - Comm Ave/Hicks Way
  - Comm Ave/Rec Center

- Completed signal review at 4 locations:
  - Mass Ave/Comm Ave
  - Mass Ave/N. Pleasant Street
  - Comm Ave/Campus Center Way
  - Comm Ave/Holdsworth Way
New Pavement Markings

- Narrowed travel lanes with new reflectorized thermoplastic pavement markings and enhanced textured crosswalk inlay
- Updated 4-inch edge line markings with 6-inch reflectorized thermoplastic markings
- Added roadway edge lines where they were not previously present in order to narrow the travel lanes for traffic calming
North Hadley Road / Mass Ave Corridor

**Existing**
- 15 foot travel lane
- 4 foot shoulder

**Proposed**
- 11 foot travel lane
- 3 foot buffer (2 foot minimum)
- 5 foot bike lane (4 foot minimum)
Mass Ave Road @ University Drive Road Diet

- Removed one eastbound through lane and installed a buffered bike lane across intersection for traffic calming
- Removed excess signage and pavement markings
Example of Sign Program

- Remove all signs/posts in the median; relocate the "No U-Turn" sign to the back side of the signal pole completed
- Upgrade ladder crosswalk with textured pavement inlay and new ADA accommodations at curb ramps completed
- Upgrade asphalt walkway in median with textured pavement inlay (or concrete) and new ADA accommodations completed
- Update 4-inch edge line markings with 6-inch reflectorized thermoplastic markings completed
Our New Campus Standard Crosswalk
Commonwealth Avenue Speed Humps
Commonwealth Avenue Speed Humps
Massachusetts Avenue Sunset Crossing - Before
Massachusetts Avenue Sunset Crossing - Now

- Constructed geometric changes to Sunset Ave approach to reduce crossing distance and increase pedestrian visibility
- Modified landscaping in the median in increase pedestrian visibility
- Installed raised textured crosswalk inlay; replaced asphalt sidewalk and walkway with concrete
Next Steps – Starting Summer 2023

- N. Hadley Rd/Mullins Way
  - Complete engineering design of roundabout (consistent w/ 2012 Master Plan)

- Mass Ave/University Dr
  - Complete engineering design of roundabout (consistent w/ 2012 Master Plan)

- N. Pleasant Street Corridor
  - Advance corridor plan (with Town of Amherst)

- Mass Ave/N. Pleasant St
  - Complete engineering design of roundabout (consistent w/ 2012 Master Plan)

- Comm Ave/Hicks Way
  - Install fully actuated traffic signal (if deemed necessary)

- Comm Ave/Campus Center Way & Holdsworth Way
  - Complete design of fully actuated traffic signal with audible tones

- Governors Dr Corridor
  - Construct design of roadway improvements synchronized with planned engineering project

- Mass Ave Corridor
  - Assess need for added traffic control/enhancements associated with new Mass Ave development
Transportation Services Update

PVTA/UMTS Transit Service Update

- Ridership increases as campus returns to full operation
- Modified service levels continue
- Driver and staff shortages challenge service delivery
- Talent and training pipeline was severely impacted
- Our extraordinary team has pulled every rabbit out of every hat but we are near wits end.
Transportation Services Update

PVTA/UMTS Transit Service Update

• Rebuilding from a position of strength
• Our culture, commitment and legacy as a student-lead collaborative positions us for eventual success to reestablish most services by FY24
• Road ahead is long, challenging and forever changed
• Working closely with PVTA on how to balance these demands
Transportation Services Update

PVTA/UMTS Transit Service Update

• Service modifications on PVTA Route 30, 31, 34 and 35 to every 20-22 minutes will remain until further notice.
• PVTA Route 33 Saturday operating on Sunday schedule
• PVTA Route 34 Northbound Campus Shuttle operates AM only
• Restoration of services will be dependent on staffing.
Transportation Services Update

**TRANSIT OCTOBER SNAPSHOT**

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## Transportation Services Update

### October Transit Service Snapshot

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Transportation Services Update

PVTA/UMTS Transit Service Update

• TSA/CDC suspended masking requirement in April 2022
• Pandemic isn’t over: we continue to collaborate on all public health updates and directives
• COVID-19 continues to impact driver recruiting
• Our “UCrew” service team continues to do an extraordinary job in fleet and cabin cleaning
Transportation Services Update

Capital Program & Projects

✓ Electric bus and charging infrastructure
✓ Exterior bus wash and water reclamation
✓ Facility apron repaving
✓ Storm water retention and byproduct separator
✓ Driver security barriers
Transportation Services Update

Active Capital Projects – Spring 2023

- 10 new transit buses (8 clean diesel, 2 battery electric bus)
- Expansion of CCS depot electric charging dispensers
Transportation Services Update

Campus Fleet Services

• More rabbits out of hats
• Better support for our exceptional front line people
• Leverage existing tools and systems to enhance our client’s experience and better manage lifecycle asset reliability
• Improve our business transparency, value and service velocity to our clients
• Better support campus sustainability programs
TRANSPORTATION SERVICES - PARKING SERVICES
UMass EV Charging Club

• The UMass EV Charging Club allows members to charge at the Charging stations across campus for just the price of electricity, currently $0.14 per kWh
• Those not in the Club pay $1.50 per hour plus the cost of electricity.
• All those charging on campus are required to move their vehicles out of the charging locations within 45 minutes of completing their charge.
Charging Your EV on Campus

• All of the chargers on campus are level II chargers
• UMass Amherst and Mt Ida campus currently has 53 ports for charging
• 6 more level II chargers just arrived and will be installed in Lot 65 Holdsworth, Lot 28 Mullins Way, University Village and in front of the Regional Transportation Information Center
• Parking Services received grant funding to replace the level III charger at the Visitors Center and to install a new Level III in the Campus Center Parking Garage. These units have been ordered but supply chain issues will delay the delivery. No delivery estimate yet.
Lot 28 – Permeable Pavement

• Contractors lot off of Mullins Way was converted to a residential student parking lot this summer.
• 412 parking spaces and made ready spaces for up to 3 level II EV chargers.
• First time we developed a lot with permeable pavement.
• Benefits:
  • Cost effective – no detention ponds or underground basins
  • More natural hydrologic balance. Slowly releases precipitation into the ground vs. discharge into storm drains, streams, etc.
  • Less de-icing material needed in the winter.
Lot 28
Zone Realignment

• December 2019 Facilities/Residential Life realignment announced with the intent to merge residence hall facilities with campus facilities.
• Realigning zones to create better service to the campus community and foster collaboration in both residential and academic facilities with staff working together to service both. Neighborhood Model.
• Custodial and Maintenance zones will match to create better working relationships and service for our campus stakeholders.
• Allows for redundancy and flexibility in staffing.
Operational Services
Introduced
Construction Advisories List Serve: Sign Up Today

Construction advisories are emailed directly to our Construction Advisory distribution list. If you wish to be included on our Construction Advisory distribution list, please email your net id to fcscommunications@umass.edu with the subject line "subscribe to construction advisory".

We do not rent or share this list with any other company or organization, and you can unsubscribe at any time by emailing with subject line "unsubscribe from construction advisory".
Mail Services

• Though we no longer Print program mail in house, Mail Services is still available for you to use for processing your newly printed material. We are still our campus’ mailing experts and the team to go to verify mail piece compliance and to cleanse your mailing lists.

• When using Supply Logic for print projects, Mail Services will now be added as an option to process the mailing. The Marketing Mail office still offers list cleansing, preparation (stuffing, collating, addressing) at a substantial savings even over the Supply Logic bidders.

• For tight deadlines, Mail Services has USPS gateway access to expedite entry and able to bypass local induction and drop directly in Springfield to avoid delays.

• Mail Services staff are certified in postal design and compliance and assure the best postage savings available.

For more information on how Mail Services can help with your mailing, please email a request to mailings@admin.umass.edu.
Customer Service Update

Sarah Moretti  
Manager

Kelly Nichols

Emily Emond-Campbell

Laura Churchill

Amy Meo
UMass is a JED Campus

JED Campus guides colleges and universities through a collaborative process of program and policy development, with customized support by a dedicated campus advisor to help you build upon your existing student mental health offerings. This four-year strategic partnership allows you to assess and enhance the work already being done, as well as foster positive, systemic change on your campus and in your community. To date JED has worked with nearly 400 institutions representing over 4.5 million students.
Means Restriction

JED’s Comprehensive Approach to Mental Health Promotion and Suicide Prevention
The Purpose of a Facilities Review

Limiting Access Prevents Suicide: Numerous studies document means restriction as a powerful method of suicide prevention. The overwhelming majority of people who attempt suicide survive for decades following an attempt not leading to death.

Means Restriction is Critical: The suicidal process is so frequently both ambivalent and impulsive. Elapsed time from first suicidal thought to the attempt is often ten minutes or less.
Sensitivity and Content Advisory

We recognize that talking about suicide, doing work to prevent suicide and supporting students, staff and faculty impacted by death by suicide are important considerations for this project.

It’s OK to Say Suicide.

If you’re scared to say the word suicide—either because you’re thinking about it, you’re worried someone you know might be considering it, or, you just don’t know how to talk about it—we want you to know it’s OK to say it.

Being able to talk openly about suicide opens the door for people to get help.
How we will accomplish our review?

JED Environmental Scan Software: We have licensed a smart software that will gather and document each building’s specific information.

Working as a Team: Staff from Operational Services will coordinate a team of staff to complete facility tours that will include the Building Coordinator.
Resources for Support & Opt Out Option

This is challenging work and can cause impact, based upon our histories, upon current life situation, etc.

- First, it’s human – we encourage students to talk to each other, we encourage the same for staff
- Tune In: Impact can look different for everyone – tune in to self and others
- Reach Out: ECCO – Employee Counseling and Consultation, your PCP, Clergy, etc.
- Know your limits – Opt out if you need to
Timeline for Completion

We have over 200 facilities on campus.

We will attempt to review 8-10 facilities a week during the academic semesters and increase to 12-14 during winter session in January.

Goal for completion is Spring Break 2023.