Master Planning Council
May 19, 2010

Parking and Transportation &
Office of the Architect
Rebecca White, Director, P & T
Julia Monteith, Senior Land Use Planner, OAU
TDM Plan Phase 1, 2007
- Implementation in process

TDM Plan Phase 2, 2010
- Plan completed
- Integrated growth enrollment impacts
- Tailored TDM 5-year implementation plan for UVa
- Integrated impacts of growth without TDM implementation
- Included analysis of carbon reduction impacts
## TDM Measure

<table>
<thead>
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<th>TDM Measure</th>
<th>Very Aggressive</th>
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Program element included. Where appropriate, a level of program implementation is identified.
Strategy Recommendations: Phase 2 Implementation Timeline
Land Availability

Carbon Emissions
-1623 Metric Tons eCO₂

= 5.5 acres of PV Panels
Surplus Buffer allows for Uva’s flexibility to manage parking capacity on Grounds in support of event parking, parking availability, and operations.

North Grounds: 1000 Space Buffer at JPJ/U-Hall, provides buffer for event parking and avoids additional transit costs associated with increased use.

Central Grounds: 5%, typical operational buffer to allow patrons to find available spaces. (276 spaces)

West Grounds: 5%, typical operational buffer to allow patrons to find available spaces. (121 spaces)

Impact of Capital Projects through 2020
North Grounds – Addition of 41 Spaces
Central Grounds – Loss of 120 Spaces
West Grounds – Loss of 467 Spaces

Assumption: Surplus Buffer
**Mode-split Allocation** provides the basis for the various TDM modes to be allocated based on percentages of the overall TDM program.

### No TDM
- 78.1% Drive Alone
- 10.0% Carpool
- 11.9% Other

### 10-Year TDM

<table>
<thead>
<tr>
<th></th>
<th>In 2015</th>
<th>In 2020</th>
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<tbody>
<tr>
<td>Drive Alone</td>
<td>70.4%</td>
<td>64%</td>
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<tr>
<td>Carpool</td>
<td>17.7%</td>
<td>24.1%</td>
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<tr>
<td>Other</td>
<td>11.9%</td>
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-1.3% Drive Alone per Year through 2020
+1.3% Carpool per Year through 2020

**Assumption: Mode-split Allocation**
The **Utilization Ratio**

1) Applied mode split ratios to the new and existing population.

2) Assumption made that 70% of new faculty, staff, and students that drive will occupy parking spaces simultaneously.

3) Steady state enrollment growth rate was used as the baseline for analysis.
Parking Availability Projections
Parking Availability Projection with 10-year TDM
2020 - 10-year TDM vs. No Additional TDM Implementation

Parking Availability Projections
Annual Expenditures – 10-Year TDM vs. No Additional TDM

Financial Projections
Key Points

TDM implementation plan is a 5-year process, results are a 10-year process.

TDM extends the availability of parking and reduces the severity of inventory shortfalls.

Although we’re presenting a 5-year implementation plan, we should be prepared to commit to an additional 5-year plan in 2015.
<table>
<thead>
<tr>
<th>Year</th>
<th>Programs/Initiatives</th>
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<tbody>
<tr>
<td>2008</td>
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<td>2009</td>
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<td>2010</td>
<td>UTS-CTS Fare Reciprocity Program</td>
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<td></td>
<td>Occasional Parking Program</td>
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<td>2011</td>
<td>Guaranteed Ride Home</td>
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<tr>
<td>2012</td>
<td>Carpool Preferred Parking</td>
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<td>2013</td>
<td>ZipCar Carsharing</td>
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<td>2014</td>
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<td>2015</td>
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<td>2016</td>
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How does UVa leverage the funding sources appropriately to deliver the first 5-year implementation and the second 5-year implementation?

Strategy Recommendations: Phase 2 Implementation Timeline
The Envisioned System Structure

- TECfms
- Misc. Data
- BIM Model
- Mapping Data

- Facilities Data
- Preservation Info
- Misc. Data
- Misc file formats
- Preservation Archive
Welcome

Welcome to the University of Virginia Academical Village Preservation Master Plan website.

The project goal is to create a complete record of Jefferson's Academical Village, a World Heritage site, located at the University of Virginia. This project currently includes Pavilon I as a sample building. This master plan website will ultimately capture all current physical information about the buildings and catalog historic information. The website is envisioned as a visual and informational database that will be available to University staff and guest users for instant reference and use.

If you have any questions, please contact TEC Inc.

Registered User Log In

Username:  
Password:  

Log In

Guest Access

I have read and agree to the terms below  

Guest Access

TEC Inc. 2490 Olney Road, Suite 203, Gaithersburg, MD 20877, USA
Phone 240-205-4461  www.tecinc.com
Achievements
Web Viewer Solution

Access Level 4: Limited data, Read only
Access Level 3: Technical data, partial model, input only
Access Level 2: All data and full model, read only
Access Level 1: All data, full model, all rights

Public Information | Tactical Management | Strategic Management | Administrative Control

Role with University
Achievements
Web Viewer Solution
The University of Virginia

Achievements

Web Viewer Solution

Academical Village Preservation Master Plan

Pavilion II

D04-East Elevation
001-West Elevation
002-Ionic Columns
003-Balcony Detail

Download
East elevation, 2005.
Achievements
Revit Architectural Model - West
The University of Virginia

Achievements

Revit Architectural Model - East
Achievements
Revit Architectural Model - South
Achievements
Revit Architectural Model - North
Achievements
Revit Architectural Model
Achievements

Web Viewer Solution

Trim: Benjamin Moore
67-8686

Wall:
2155-60 - Cream Yellow
(Benjamin Moore)

Base: HC-3 - Greenmount Silk
(Benjamin Moore)

Miniwax
Walnut Grove
659 Stain/seal
The University of Virginia

Achievements
Revit MEP Model Started
Achievements
Web Demonstration
Achievements
Web Demonstration
Grounds Improvement Fund
Project Proposal Review Committee:

Rich Hopkins - Facilities Management
Mark Stanis - Facilities Management
Gary Nimax - Business Operations
Kevin Fox - Health System
Dick Minturn - Provost’s Office
David Neuman - Office of the Architect
Helen Wilson - Office of the Architect
Mary Hughes - Office of the Architect

GROUNDs IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Chapel Accessibility & Plaza Improvements

Before:

After:

GROUNDNS IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Rotunda Drive Vehicular Barrier

Before:

After:

During:

GROUND IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Lower Lawn Bike Parking

Before:

After:

GROUND IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
McIntire Amphitheater Improvements

Before:  

After:  

GROUND IMPROVEMENT FUND PROJECTS AT UVA  
Office of the Architect & Facilities Management
McCormick Road Bus Stop Improvements

Before:

After:

GROUND IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Leake Building Exterior Stairs

Before:

After:

GROUNDIMS IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Hospital Drive Turn-around & Varsity Hall Landscape

**Before:**

**After:**

GROUNDGS IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Pedestrian Safety Improvements

Newcomb & University Ave. intersection modifications:

In-ground LED crosswalk lights:

GROUND IMPROVEMENT FUND PROJECTS AT UVA
Office of the Architect & Facilities Management
Pavilion Alley Lighting Improvements

*West and East Alley lighting plans:*

*Alley light fixture molded from historic pole:*

**GROUNDs IMPROVEMENT FUND PROJECTS AT UVA**
Office of the Architect & Facilities Management