**CEST Land Use Working Group**

12/8/09 Meeting Notes

**Attendees**

Bill Beardall, Facilities Operations

Brooke Boyle, Transportation

Ellen Buckner, Environmental Health & Safety

Danesha Carley, Crop Science

Rob Farrell, NCSU Libraries

Yu-Fai Leung, Parks, Recreation & Tourism Management

Tom Skolnicki, Office of the University Architect

Jean Spooner, Biological & Agricultural Engineering

Tracy Dixon, Facilities Operation (Sustainability Director)

Lisa Johnson, Office of the University Architect

**Introductions**

**Land Use Status**

To provide a little background on what NC State has been doing regarding *land use*, the following documents were distributed to the members not in attendance at the first meeting:

* Land Use section from the 2006 Campus Environmental Sustainability Assessment
* Land Use section from the ’07-’08 and ’08-’09 Annual Sustainability Reports
* 2007 Physical MP Guiding Principles and Sustainable Design pages

**Discussion**

The group continued the discussion by Land Use sub-section from the 11-30-09 meeting.

Use of Space

* **Space**: Better utilize space – impacts the building size and land area needed. Re-evaluate the UNC-GA space standards. Develop a space management plan to assist with improving space utilization.
* Plan **mixed-use** campus neighborhoods – reduces the distance between necessary services
* **Housing**: Increase the number of students living on campus (about 33% of undergrad population now living on campus).
* **Parking**: Evaluate the parking plans/policies to only provide building parking that is needed. Might involve talking to city. Consideration larger context of parking spaces and surface parking. Do we need to build as much parking? We currently have more parking in certain locations than is needed. Reducing the number of student parking spaces may be a way to decrease parking need.
* **Shared open space**: Evaluate types of open spaces and maximize efficiency for those opportunities.

Restoration & Preservation (added preservation to the title)

* Evaluate preservation opportunities (includes land, vegetation and water features). See natural systems piece of Master Plan.

Conservation

* Strengthen the sustainability portion of the Master Plan
* Evaluate site plans/site assessments for buildings and infrastructure to include site selection, grading, erosion control, utilizing existing topography. See low impact development principles
* Protect environmentally sensitive areas – identify these areas
* Implement master plan wording about siting of buildings – building orientation, minimize building footprints, use existing topography, etc.
* Protect and enhance corridors for native habitats and wildlife (develop a management plan for Lake Raleigh Woods, complete Centennial tree conservation plan).

Grounds Management

* Specify native/indigenous and adaptive plant species. Aligning the use of the plant with the intent of the areas (includes natural areas versus grasses). Formal landscape areas should have adaptive plant species. Natural areas should be native species.
* Continue yard waste mulching, composting and reuse on campus and look for ways to improve.
* Integrated Pest Management – Bill Beardall will craft strategy (further develop existing strategies – reduce volume of chemicals and use less toxic chemicals).
* Is there a strategy needed to address the animal waste? Ask Ken Schieder.

Storm Water Management

* Strengthen the storm water management vision in the master plan.
* Create a storm water master plan for campus (only have regional plans in a couple of areas now).
* Strive for treatment of pollutants close to source.
* Capture storm water and use for irrigation.
* Reuse runoff water (tactic: disconnect existing roof drains from storm water systems and divert water to ponds and other storm water retention devices).
* Provide good construction guidelines for earthwork – need proper soil preparation /good topsoil so new plant material will survive. (Some existing BMP are not successful due to improper soil preparation). Need a good management plan for topsoil.
* Require more progressive BMP’s. Don’t allow dry ponds.
* Increase use pervious pavement.

Campus engagement

* Integrated academic programs with facilities projects. Engaging faculty and students in campus projects.
* Consider grant funding as a source for projects.

If you have additional thoughts send them to Lisa.

**Next Meeting**

The next meeting will be in early January.