WISCONSIN
UNIVERSITY OF WISCONSIN–MADISON

MEETING MINUTES

Meeting Location:	Rooms 159, 198, 245, 290 School of Education, UW-Madison
Date/Time:	Wednesday, July 30, 2015, 1:00-4:00PM
Notes By:	Gary Brown, FP&M, CPLA Rhonda James, FP&M, CPLA Rob Kennedy, FP&M, Trans Jeff Pollei, FP&M, Utilities Aaron Williams, FP&M
Project/No.:	2015 Campus Master Plan Update
Re:	Campus Visit #3, TCC #4 Landscape Work Group GI/Stormwater Work Group Transportation Work Group Utility Work Group

Attendees:

Faculty/Guests: Jim LaGro (URPL), David Noyce (CEE), Dave Liebl (CEE), John Harrington (DLA), John Krogman (DoIT), Drew Beck, Kate Christopherson (CoM),

FP&M Staff: Bill Elvey, Gary Brown, Rob Lamppa, Dan Okoli, Julie Grove, Jeff Pollei, Jonathan Bronk, Rob Kennedy, Aaron Williams, Rhonda James, Matt Collins, Marcella Otter, Patrick Kass, Kurt Johnson, Ellen Agnew, Rick Werre, Dan Dudley, Pete Heaslett, Marisa Trapp (FP&M), Beth Reid (DOA), Alex Roe, Randy Mattison (System),

Consultants: Jon Hoffman, Mary Jukuri, Neal Kessler, David King, Eric Schuchardt, Bill Patek, Dave Wolmutt, Cassie Goodwin (SGJJR), Mike Skowlund, Stan Szwalek (HS), Kevin Krause, Paul Huettl, Scott Moll (AEI), Brian Smalkoski, Emily Moser, Jeffrey Smith

Excused/Absent: Sam Dennis (DLA), Jeanette Kowalik (UHS), David Marcouiller (URPL), Ken Potter (CEE), Casey Newman, Kris Ackerbauer, Harmony Makovec (FP&M), Anita Thompson (BSE)

LANDSCAPE WORK GROUP-TCC #4

Faculty: John Harrington (DLA)

FP&M/DOA/UWSA: Gary Brown, Dan Okoli, Julie Grove, Jonathan Bronk, Ellen Agnew, Beth Reid (DOA), Alex Roe (UWSA)

Consultants: Eric Schuchardt, Neal Kessler (SGJJR), Mike Skowlund, Stan Szwalek (HS)

Excused/Absent: Sam Dennis (DLA)

This is Technical Coordinating Committee Landscape/Open Space Work Group meeting #4 (TCC#4) of the 2015 Campus Master Plan project.

S. Szwalek provided an overview presentation of the materials from the stakeholder meetings include:

Facilities Planning and Management
9th Floor WARF Building University of Wisconsin – Madison 610 Walnut Street Madison, WI 53705-2397 608/263-3000

What did we hear?

- honor the 12,000 year human history
- provide visual cues
- increase biodiversity on campus
- preserve critical views to and from the lake

Review Landscape Master Plan goals

- S. Szwalek presented the draft goals for the landscape master plan (see presentation).
- Discussion:
    - Need to add "recreation" into the goals somehow; #5 and or #6
    - J. Harrington
        - Sustainability needs to be weaved into the system
        - "Stormwater aware"
        - Landscape needs to be multifunctional
        - A "working landscape"
        - Stronger streetscapes with large trees
        - Mowed turf reduction and areas with a more naturalized landscape
        - Need to have some detailed objectives under each goals
- J. Grove – need to include a discussion of maintenance guidelines; salt damage in street terraces, etc. standards for terrace sizes, etc.
- D. Okoli – need to add aesthetic and beauty into the landscape
    - Need a bigger goal that talks about design and a beautiful landscape
    - The landscape should contribute to the overall aesthetic of the campus.
- J. Grove – landscape and site furnishings standards have already been established on campus; we need to promote their use and then discuss if and when we can deviate from those standards
- J. Bronk – family of design materials; cohesive landscape materials; etc. retaining walls, paving;
- J. Harrington – need something about protecting large trees and spaces for large trees;
- J. Bronk – need to define utility corridors; protecting existing trees and coordinating with utility projects.
- B. Reid – use the tree inventory to help define where our big trees are today and in future
- N. Kessler – maybe we need a rating of trees and level of protection
- E. Schuchardt – need something about maintenance of the entire landscape, maybe under #2
- J. Harrington – should areas of the campus have landscape "themes"
- N. Kessler – there still needs to be a unifier that ties it all together from a landscape perspective or a hierarchy of spaces
- Jonathan B. – select list of plants for neighborhoods for focal points or features
- M. Skowlund – use the streetscape as a unifying feature
- J. Harrington – landscape structure as a unifying features; use a landscape ecosystem as a structure to define options
    - Savannah landscape
    - Mesic woodland
- A. Roe – knitting the landscape together; treat different parts of the campus for a variety of maintenance levels; prioritize neighborhoods; etc.
- E. Agnew – we have that now (that map needs to be shared with CPLA staff and the consultant teams)
- J. Grove - enhancing the brand with more red things in the landscape; can we do this with particular plantings that provide a pop of red color throughout the seasons

- N. Kessler – can we use the landscape master plan that provides a statement of value to the landscape to preserve the open space from future development; do we need to program the landscape to give it more emphasis for protection
- D. Okoli – there needs to be some discussion of ties between indoor and outdoor spaces. Buildings need to be in the context of the landscape and vice versa. They need to related to each other.
- J.Harrington – buildings sit on the landscape; not vice versa
- E. Agnew – most of our historic landscapes are not "programmable" or reserve able for programs in order to protect their long term integrity and not damaged by over use.
- N. Kessler – historic landscape is a "program"
- J. Grove – are we missing any programmable space that could be used for campus events?
- J. Bronk – Peter Schaudt mentioned earlier that we need a space that is a natural space that is more interactive; a sort of adult "playground" in a native landscape
- N. Kessler – Lot 34 for discussed as this potential living laboratory
- E. Agnew – subset of#4, defined irrigated spaces and the ability to irrigate in the future
- J. Harrington – need a design build landscape for LA students; hands on learning spaces; makerspace for horticulture and landscape architecture students
- E. Agnew – continue to think about snow removal and snow storage as we design our future campus landscapes

- **<u>Review campus wide landscape analysis</u>**

  S. Szwalek provided an overview of their site analysis presentation, including:
- Site analysis maps reviewed (see PPT slides)
    - Reviewed natural features
    - Reviewed cultural features
- J. Bronk – need to also make sure you look at views within campus to other major buildings; need to include views of greenroofs, etc.; hidden viewsheds
- S. Szwalek – maybe we need a set of maps that show a variety of viewshed studies
- J. Bronk – for major projects, we may need to look at a viewshed analysis
- G. Bronk – need to include a soils analysis to help with ecosystem studies
- M. Skowlund – how does the railroad impact the land use and safety of crossings?
- B. Reid – central campus nomenclature seems a misnomer (this is a historic reference to the main quad around Bascom Hill which has always been called the "central campus"
- B. Reid – living, learning landscape laboratory; "glacial timeline" teaching feature; how can we make the landscape a learning tool
- J. Grove – can we do some interpretation at the overall at Observatory Drive?

- **<u>Landscape Focus Areas Site Analysis Review</u>**

  S. Szwalek provided an overview and site analysis for the five focus areas in the landscape master plan.

- Willow Creek
    - Add a bridge at Linden and remove Easterday Drive to give more room for landscape around the creek
    - Look at enhancing the bridge crossings

- Observatory Drive
    - Add stormwater management features
    - Reduce mowed lawn and change to meadow

    - Remove parking from Observatory Drive in a consolidated ramp to minimize the roadway width;
    - Open the views to the lake better
    - Orchard remnants
    - Creating a living, learning landscape; a working landscape

- Linden Drive Streetscape & adjoining landscapes
    - Dead-ending the street can allow us to narrow the street, expand the sidewalks; creating a larger scale landscape; shared us mall
    - Do we need Linden in this section of campus
    - Can we do a new bridge over Willow Creek to help with access to Vet Med?
    - Can we do something better with the Horse Barn as a new public space and really create a new public gathering space

- N. Charter Street Streetscape
    - 6 city blocks
    - Lack of street furnishings
    - Naturalized setting from the north; need better engagement with the lake
    - Increase accessibility
    - Undefined pedestrian space at Social Science and Liz Waters
    - Charter & Linden intersection; conflicts with vehicular; lots of pedestrians
    - Combination of solutions to increase safety
    - Need to organize the bike parking better
    - Transition to more urban area south of University Avenue; character changes
    - Noise issues from heating plant
    - Transition to residential areas to the South
    - John – can we close off some of the branches of the street intersection? Can there be an overhead land bridge

- University Avenue Streetscape
    - 10 city blocks
    - Major transportation arterial
    - 24 street trees
    - 1 bench, 5 bus shelters; few street furnishings
    - No pedestrian lighting except at Fluno
    - Opporutnities for arrival and entry on the east end of campus
        - Chazen, Fluno, U Square as entry buildings for the camps
    - Lack of traffic calming on the street Three vehicle lanes, two bike lanes & a bus lane
    - West end pedestrian crossings; passing through not arriving to campus

GREEN INFRASTRUCTURE (GI)/STORMWATER WORK GROUP-TCC #4**************************

Faculty: Jim LaGro (URPL), Dave Liebl (CEE), Marisa Trapp (EHS)

FP&M Staff: Aaron Williams, Rhonda James, Matt Collins, Marcella Otter,

Consultants: Dave Wolmutt, Cassie Goodwin (SGJJR)

Excused/Absent: Ken Potter (CEE), Anita Thompson (BSE)

This is Technical Coordinating Committee Stormwater Work Group meeting #4 (TCC#4) of the 2015 Campus Master Plan project. Introductions were made around the table.

Status Update:

- Dave and Cassie presented a summary of the stakeholder meetings with the City of Madison, Clean Lakes Alliance and Yahara WINS; the stormwater analysis diagrams; facilitated a discussion of the goals and objectives; and covered a quick discussion of opportunities.

Discussion:

- Meeting with the City of Madison clarified the UW's responsibility for regulations regarding Total Suspended Solids (TSS) applies to the original land grant area.
- James Tye of the Clean Lakes Alliance encourages greater connections to the lake as a feature of campus and to use the UW's shoreline as a place for innovative shoreline stabilization as needed.
- From the Yahara WINS presentation we took away the potential cost savings they presented is likely low compared to our recent projects. Costs for the most recent projects will be pulled and an updated comparison can be made.
- Analysis Diagrams – general comments
    - There is a distinction to be made between the area regulated and the entire campus.
    - South of University Avenue, the roads are the city responsibility and have been left out of the calculations – they need to be left out of the graphic as well.
    - Developed Features diagram – the blue area will be redefined and re named to reflect recent discussions with the City.
    - Maintenance & Operations diagram – everyone in the group will look at this map and add items they are aware of.

- Modeling Update
    - Consultants still need the street sweeping map from UW (Rhonda will get from Grounds)
    - Green roofs do not get credit for TSS removal, **if** they are intensive they are considered impervious.
    - The TSS loading diagrams show the west, near west and central to have the greatest loading.
    - Modeling scenarios were discussed and agreed that the minimum amount to treat on campus is 40% but more than that is desired. To determine the actual best level of TSS removal on campus the team will look at a balance between, initial cost, maintenance cost, additional benefits of GI areas, amount of benefit the dollars spent can accomplish for the overall good of the Rock River water quality.
    - The runoff quantity discussion resulted in adding a future condition to the comparison graph.
- Goals and Objectives
    - Discussion lead to three potential goals in an intentional order.
        - Implement green infrastructure practices to achieve water quality goals and regulations.
        - Choose green infrastructure practices that also provide ecosystem services.
        - Integrate research, teaching and outreach into green infrastructure practices.
    - Cassie and Dave will reorganize the current objectives to realign to the goal suggested and send it around to the team to comment on via email.
- Opportunities
    - Green Street opportunities were described and discussed.
    - Shoreline opportunities were mentioned.

    - Willow Creek is an opportunity.
    - Observatory Hill is an opportunity.

TRANSPORTATION WORK GROUP-TCC #4

Faculty/City: David Noyce (CEE), Drew Beck, Kate Christopherson (CoM)

FP&M Staff: Patrick Kass, Rob Kennedy,

Consultants: Brian Smalkoski, Emily Moser (KH)

Excused/Absent: David Marcouiller (URPL)

Discussion

- Specify that the "Campus Transportation by the Numbers" is everything within campus boundary (not just University owned).
- Add # of bicycle "spaces" in the 286 racks.
- R. Kennedy: Route 38 does serve the campus and actually ends at the hospital – it goes on Linden, and anecdotally it has heavy loading at the hospital. Many students board to go to hospital or Bassett Street.
- Metro does not actually have Park and Ride lots. They have five routes that serve park and ride lots.
- Is there a way to compare differences between where Hospital staff and UW faculty/staff are coming from? E.g., one is X% more distributed than the other. Can we also compare to what it was like in 2005?
- P. Kass: Suggests combining the heat map for Hospital and UW faculty/staff to help identify areas for Park and Ride, etc.
- We don't have a count for Observatory just east of the roundabout. R. Kennedy surmised that the vast majority of traffic continues for the rest of that length (maybe 6900 of the 7100).
- Aside from the qualitative graphic of bike/ped activity areas, we should have a table showing our numerical data. D. Noyce suggested we should have Observatory and Charter shown as a high activity node as well.
    - B. Smalkoski's observation is that Charter and Linden is much higher priority.
- Walking Network map—Clymer Place was a roadway that was vacated and now functions only as a sidewalk (change to ped only walking path).
    - R. Kennedy has some additional edits; he will review the PDF in detail.
- May want to tweak our "Transportation by the Numbers" slide since it says 7 B-cycle stations, but there are 10 shown on the map (KH to confirm that the 7 are within the campus boundaries).
- Bike parking locations—the challenge for them is getting space dedicated on building sites for the bike racks without negatively impacted function and aesthetics of building.
- Non-Motorized Issues Map—should add Charter and University node and Campus and University Bay node (both of these are also bus issues and Campus/University Bay is emergency vehicle access for hospital)
- Non-Motorized Issues Map, Item A—we should be encouraging bikes/peds to use the East Campus Mall underpass to cross, not this location
- Transit Boardings—map will be helpful in potentially identifying key stops for potential express routes and for identifying locations where additional bus shelters may be needed
- Transit Routes—should show Route 38 and any other route that goes on Linden. Route 27 is very minor, so if we are excluding some, that should be one that is excluded.

- Transit Routes—important to note where the data is from to understand whether Langdon was open, whether other construction was going on, etc.
    - D. Noyce said they just collected new data with Cambridge Systematics.
- Park-and-Ride—change label to say "Park-and-Ride Lots Served by Metro Transit" or "Regional Park-and-Ride Lots".
- "What's Working" slide—should show a University-designed bus shelter rather than one on State Street.
- Transit Improvements—if considering limited stop service, consider the dwell time at that those stops to load/unload.
- Are we going to discuss mopeds?
- B. Elvey would like KH to develop a campus standard for crosswalks. B. Elvey says we have tried many different types over the years. They want the lowest life-cycle cost. Can we document types, pros/cons, and make our recommendation?
- Charter/Linden – do we consider closing to general traffic and just allowing transit? D. Noyce suggests making Charter a bus and pedestrian mall between Linden and Observatory.
- Parking—we need to think about actual demand (how many would like to use the parking, not just how many actually are). Many people attempt to enter a ramp, see a full sign, and then have to go hunt somewhere else.
- Parking: Patrick and Rob think the occupancies described in the table and graph are too low and possibly inaccurate.
    - Trans Services will check and confirm graph data
- Starting in September, Transportation Services will keep the gates down at least 24/5 and will get better parking occupancy data.
- There is an opportunity to manage parking differently when school is not in session.
- Transportation Services feels the occupancy as shown is low—they will review.
- Should keep visitors and staff/faculty separate in UW Hospital area—Hospital Visitor (Lots 63 and 75)
- Transportation Services will review next week and get us some notes.
- Noted that Lot 17 and Lot 80 should be 100%.
- Patrick has some data on where Lot 34 users work—he will provide that to transportation work group.
- Disabled parking may need to be split into the different user groups based on ratios.
- Brian will provide the TCC presentation and plots to Rob.
- Biggest issues is visitor parking in the right places.
- Current waitlist is 200 people who don't have parking.

Interdisciplinary Takeaways

- Shift in building density and activity intensity to South, Near West, and West.
- Increased need for Open Space in South.
- Increased pedestrians on limited urban sidewalk network.
- Changing demands for parking.
- Stronger streetscapes with larger trees.
- Opportunities in five focus areas: Willow Creek, Charter, University, Observatory, etc.
- Can we add a bridge at Linden and remove Easterday?
- Do we need Linden west of Elm?
- Opportunity to reduce road widths?

- Note turning radii requirements and gutter pan water quantity handling (12" vs. 24")

- Location of parking demand needs to be taken into account with parking relocations/eliminations.
- Pedestrian and vehicle interactions at key spots.
- Service and parking entrance locations need to be taken into account as we look at repurposing roads.
- Bike parking needs to be more of a component of the design of new buildings—convenience is very important to reduce bike locking to non-rack items.
- More visitor parking is needed.
- Site small utilities plant on campus.
- Impervious reduction.
- Open space increase.
- Green streets.

UTILITIES WORK GROUP-TCC #4

Faculty/System: John Krogman (DoIT), Randy Mattison (System)

FP&M Staff: Bill Elvey, Jeff Pollei, Marcella Otter, Kurt Johnson, Rick Werre, Dan Dudley, Pete Heaslett, Rob Lamppa,

Consultants: Kevin Krause, Paul Huettl, Scott Moll, Brian Stiklestad (AEI),

Excused/Absent: Neil Mack (DoIT)

1. AEI (Paul and Brian) provided an update on the current status of the utility work, including:
   a. Vintage maps for chilled water and steam are nearly complete
   b. Calibration of building loads, diversity to the current peak plant loads is ongoing
   c. One-line electric diagram has been updated
   d. Project lists from 2005 Master Plan are being updated for chilled water and steam. A future meeting will be scheduled to discuss the electric projects.
   e. Flow modeling of chilled water and steam is just beginning and will be discussed further at the next TCC meeting.
2. UW noted there are a number of "data centers" on campus that use city water for cooling. These are not included in the chilled water modeling. It would be beneficial to convert to campus chilled water. That currently is not part of the scope of the Master Plan. UW suggested that a study, potentially as a change order, should be funded to identify once through cooling installations on campus. (UW)
3. Rob Lamppa indicated that there are opportunities to include renewable energy systems on existing and future buildings through performance contracting. UW's performance contractor on the Madison campus is Johnson Controls. The proposed intent should be shared with AEI. (UW - Rob L.)
4. Current renewable systems on and off campus include:
   a. Solar hot water — WID, Dejope, Leopold
   b. PV — WEI
   c. Geo-exchange — WID
   d. Off campus — Wind purchase
5. UW FPM to flag deficiency list items to be completed in next 3 biennia. (UW)
6. UW to look at economics of switching out a steam absorber in Charter to electric to give them the option to use steam during the day/electric at night. (Absorber was installed in 2000, and

hasn't operated in a couple of years due to energy costs.) UW to provide data for inclusion in Master Plan, as this is not part of AEI's scope of work. (UW)

7. UW to look at feasibility of providing steam pressure reduction turbine generators at major lab buildings. UW to provide data for inclusion in Master Plan. (UW)
8. City water rate increase. City can read water meters every 15 minutes and are going to demand-based pricing model.
9. Add MGE electrical meters to one-line diagram. [19 meters: 3 off campus (1 at WARF, 1 at Fluno, 1 at East Campus Mall)] (AEI - Brian)
10. Add legend to electrical one-line diagram. (What do colors mean?) (AEI – Brian)
11. Dayton Street Substation on electrical one-line diagram needs to be expanded. Rick W. to provide information. (UW - Rick)
12. Steam Map: Update to show new steam piping by Union South. (AEI – Paul)

End of Minutes

If this report does not agree with your records or understanding of this meeting, or if there are any questions, please advise the writer immediately in writing; otherwise comments are assumed to be correct.

Presentation:

See weblink on www.masterplan.wisc.edu under the tab 'Current Information'