



DRAFT
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Campus Master Plan 2005

Summary of Draft Master Plan Concepts

The University of Wisconsin-Madison is in the process of developing a new campus master plan to guide development over the next 20 to 30 years. Below is a summary of the main principles, assumptions and elements of the plan in *DRAFT* form for review and comment. Please send all questions or comments to Gary Brown, Director of Planning & Landscape Architecture via the university's master plan website at: (www.uc.wisc.edu/masterplan).

Planning Principles

- A Spectacular Setting – Three miles of lakeshore on a glacial drumlin with an incredible sense of history.
- Enhancing Experience of Place – Improve our great public spaces and create more spaces people love.
- Protecting Our Environment – Assure all new development is as sustainable and 'green' as possible.
- Developing Connections – Provide easy physical connections across campus & in the community for all.
- Edges and Boundaries – Clearly delineated and well defined, yet open and welcoming to all.
- Our Regional Community – Support life long learning for the entire Madison area community.
- The World Beyond – Continue the "Wisconsin Idea", reaching out to the world in all that we do.

Assumptions

- The campus boundary will remain constant with no anticipated changes in the Regent approved campus development plan boundary; UW will continue to acquire property within the approved campus boundary when funding is identified and the parcels become available
- Campus growth will remain constant; no anticipated growth in enrollment; minimal growth in faculty/staff, mostly related to research; minimal growth in hospital staff and patient visits.
- Parking will remain constant at approximately 13,000 spaces campus wide; move to more efficient structured parking rather than surface parking; surface parking lots will be converted to new open space, potential building sites or structured parking ramps
- The campus will continue to rely on effective Transportation Demand Management (TDM) techniques to reduce traffic in and around campus.

Major Elements of the Plan

1. Provide a plan to guide campus development for the next 20 to 30 years
2. Analyze existing & proposed buildings, open spaces, transportation systems and the utilities infrastructure.
3. "Recreate ourselves in place" (remove & replace buildings who have outlived their useful life; build higher density on surface parking lots; decompress existing overcrowded research facilities)
4. Redevelop lower east campus area related to the Arts & Humanities District
5. Redevelop the area around and related to the Wisconsin Institute for Discovery including Union South.
6. Redevelop area around Linden Drive, east of Henry Mall including all new facilities south of Linden Drive.
7. Redevelop College of Agriculture & Life Sciences campus with new animal and plant sciences facilities.
8. Provide future expansion on the west campus for additional health science academic & research facilities.
9. Provide a set of design guidelines for future development based on neighborhoods of architectural design.
10. Provide sustainable design guidelines for all future development, minimizing our impact on the land.
11. Provide a utilities master plan to assure new facilities can be adequately served with steam heat, chilled water, sanitary and storm sewer, IT services, etc.

12. Provide a comprehensive transportation master plan that assumes no net gain in parking but increased service in alternative forms of transportation to and around campus; increase public transit service to, from and on campus including additional bus capacity, street car/trolleys and commuter rail alternatives.

West Campus (University Bay Drive to Elm Drive)

1. New School of Nursing Building on Lot 85 with underground replacement parking
2. 700 new beds of residential housing in Lakeshore Residence Hall complex
3. Interdisciplinary Research Center, Phase II
4. Walnut Street Greenhouses Expansion
5. West Campus CoGeneration Facility, Chiller Expansion
6. New School of Veterinary Medicine Large & Small Animal Hospital on Lot 62 with underground replacement parking
7. Build replacement parking for Lot 60 in two new parking ramps on west campus
8. Relocate McClimon Track to Lot 60
9. Consolidated ROTC program facility on site of existing Enzyme Institute
10. New Gaylord Nelson Institute for Environmental Studies 'Green Building' on site of old University Health Services & Naval ROTC buildings
11. New Meat & Muscle Biology Lab
12. New Dairy Cattle facility
13. New Poultry Science facility
14. New Plant Sciences facility
15. New Animal Health & Biomedical Sciences building
16. Renovate Camp Randall Memorial Shell for Athletic Department use
17. Natatorium Addition & Remodeling to replace lost recreation space in the Camp Randall Memorial Shell
18. Two additional floors of replacement parking on the Steenbock Library parking ramp site
19. Potential Joint research lab facility with Forest Products Lab (may include joint parking facility)
20. Potential New West Campus Union near Marsh Lane.
21. Future expansion space for School of Pharmacy
22. Future expansion space for Medical School and Health Sciences research (on site of McClimon Track and around existing WARF building)

Central Campus (Elm Drive to Charter Street)

1. Addition to School of Human Ecology
2. Redevelop Linden Drive from Charter Street to Babcock Drive to reduce daily vehicular traffic but still allow access; commit space to more pedestrian character rather than vehicular character
3. Replacement for Engineering Centers Building at the corner of Engineering Drive and Randall Avenue
4. New Wendt Engineering Library and social study space west of Henry Mall, south of Materials Sciences
5. New Union South with replacement parking in a structured ramp and a hotel/guest room facility; includes new outdoor gathering space / green space on site of the Wendt Library
6. New academic facility on Spring Street between Orchard and Charter Streets (north side; requires land acquisition)
7. New child care facility at site of existing Rust-Schriener residence hall
8. Small museum addition to Weeks Hall

9. Wisconsin Institute for Discovery development between Randall Avenue and Charter Street on the 1200 & 1300 blocks of University Avenue
10. Redevelop new academic facilities south of Linden Drive from Charter Street to Henry Mall
11. New Nutritional Sciences building on the site of the Stovall State Lab of Hygiene (which may move off campus)
12. Replace Van Hise with a new academic facility
13. Redeveloped Primate Center complex

East Campus (Charter Street to Francis Street)

1. Addition to Ingraham Hall to the west
2. Redevelopment of the Nolan & Zoology block with new academic buildings with possible overhead connector to the existing Chemistry building over Johnson Street
3. New Physical Plant facilities on Lot 51, including some replacement parking
4. Historic restoration and addition to Old Education on Bascom Hill
5. Potential capacity expansion to the Charter Street heating plant
6. New coal storage facility east of Charter Street heating plant, east of Mills Street
7. New academic facilities on the 900 block between Johnson Street and Dayton Street (requires land acquisition)
8. New research tower for Educational Research at the corner of Brooks and Dayton Streets
9. Redeveloped University Square (partnership with private developer) for University Health Service, Student Organizations, Bursar/Registrar/Financial Aids offices (project also includes private underground parking, private retail on the first two floors and a private housing component)
10. Redeveloped Humanities building site for two smaller academic/classroom buildings with a potential for underground parking.
11. Redeveloped Arts & Humanities district with an addition the Elvehjem Museum of Art, a new Music performance facility and a new Music faculty, practice and teaching facility
12. Potential addition to Memorial Union for a large dining hall and potential new boat house
13. Vertical addition to southeast campus parking ramp between Lake and Francis Streets on Johnson Street
14. Redevelopment of the block east of the Kohl Center for the Art Department and Art Studios

Long Range Transportation Plan Elements

1. Develop a Transportation Demand Management Plan with the overall goal to provide customer-oriented alternatives to driving alone.
2. Provide east/west express intra-campus service.
3. Provide a central and east intra-campus circulator connecting Union South/Engineering Campus, Memorial Union, Dayton St. area residence halls and perhaps the Lakeshore Residence Halls.
4. Develop a unique identity for campus coaches and improved information and identification of Metro buses through campus.
5. Work with Madison Metro to develop new commuter transit routes and new park-n-ride locations.
6. Study in-the-street trolley service and commuter rail service to and through the campus.
7. Improve and add to existing bicycle routes and facilities including covered bicycle parking, shower facilities, and other bicycle amenities generally where possible, especially in conjunction with new building projects.
8. Improve pedestrian connections across campus with additional sidewalks and street crossing improvements.
9. Provide traffic calming and pedestrian enhancements to University Avenue and Johnson Street.

10. Study landscape improvements and the removal of parking along Observatory Drive between Charter Street and Babcock Drive.
11. Develop Elevated pedestrian/bicycle facilities:
 - a. North/south from the Medical Sciences Center area and Linden Dr. across University Ave. to the Institute for Discovery and across Campus Dr. to Union South.
 - b. North/south from old University Ave. in the vicinity of Birge Terrace and Chamberlain Ave. across Campus Dr. to an area just east of the Vet Med School and Linden Dr.
 - c. East/west across Charter St. from the elevated plaza north of Bascom Hill to Linden Dr. and/or a new building on the south side of Linden Dr.
12. Study the potential for a new pedestrian/bicycle overpass of University Avenue at University Bay Drive and Farley and an overpass crossing Park St. at the Humanities Building and its replacement.
13. Develop a new streetscape for Observatory Drive to enhance pedestrian safety.
14. Convert Linden Drive and Henry Mall to pedestrian, bicycle, and transit mall.
15. Convert Brooks Street between Johnson and Dayton Streets to a pedestrian and bicycle corridor.
16. Investigate closing Johnson St. between Randall and Campus Drive to allow for development associated with a new Union South and the Wisconsin Institute for Discovery.
17. Provide improvements to intersection of Campus Drive, University Avenue and Babcock Drive:
18. Shift and reconfigure the intersection of Highland Avenue and Walnut Street to align the street with the parking driveway of HSLC, improve traffic flow, and enhance pedestrian crossings.
19. Replace the bridge over Willow Creek on Linden Drive to improve the existing off-center pedestrian bridge to one that will accommodate pedestrians, bicycles, transit, and emergency use by regular vehicles.
20. Study the addition of east bound ramps creating a new intersection at Walnut St. on Campus Dr. (on the south side of Campus Dr.).
21. Study the reconfiguration of the intersection of University Ave. and University Bay Dr/Farley to provide more capacity for southbound motorists turning right onto University Ave. and for eastbound motorists turning left onto University Bay Dr. Also enhance pedestrian crossings here, including as appropriate with a pedestrian bridge.
22. Study widening the “switchback” on Observatory Dr. east of Helen C White Library to allow buses to pass each other safely on the hill, especially eastbound buses traveling down the hill.
23. Study the potential of relocating the bus stop and improving the intersection of Park St. and Langdon St./Observatory Drive.
24. Study providing for a new north/south road from Observatory Dr. (extended) to provide access to and through the area set-aside for the expansion of health science programs.
25. Increase awareness, support, and outreach assistance to persons outside Metro transit service districts potentially interested in van or carpool transportation.

Utilities Master Plan Elements

1. Analyze all existing utility infrastructure systems including steam heat, chilled water, domestic water, sanitary sewer, storm sewer, gas, power, signal and telecommunications across campus.
2. Develop planning principles that:
 - Create a high level of reliability and redundancy
 - Implement planned phase out of old equipment
 - Maximize energy efficiency and minimize energy cost
 - Minimize maintenance requirements
 - Maintain flexibility for future technologies

- Coordinate with building/transportation plan
 - Investigate alternative energy resources
 - Plan for future technologies
3. Replace aging utility systems as necessary to guarantee service. Correct deficiencies as needed and provide redundant services in case of emergency.
 4. Add additional heating and chilling capacity on the east campus as additional building needs dictate.
 5. Add energy meters at major campus buildings to monitor energy use and look for ways to increase efficiencies.
 6. Reinforce the electrical system to increase reliability.
 7. Improve system monitoring to mitigate outages.
 8. Add substation capacity for flexibility and cost control.
 9. Relocate telecommunications cabling from steam tunnels to new duct bank locations.
 10. Upgrade network speed and security of telecommunications lines.
 11. Add more wireless access points across on campus.
 12. Develop and expand use of storm water management techniques to improve storm water quality and quantities including installing rain gardens, bio-swales, cisterns, green roofs, pervious pavements, etc.
 13. Continue and expand use of sustainable design practices to manage and minimize utility loads.
 14. Continue to build on the success of prior Wisconsin Energy Initiatives which included:
 - Energy audits performed for 12,000,000 SF
 - Retrofitted lighting with newer lower wattage efficient fixtures
 - Replaced 1000 electric motors with premium efficiency motors
 - Installed variable speed driven electric motors
 - Installed 2000 ultra low water usage plumbing fixtures
 - Replaced/repared 2700 steam traps
 - Upgraded controls (occupancy sensors, HVAC energy monitoring)
 - Adding 8000 storm windows

Planning Schedule

A draft of the campus master plan will be release in April 2005. Design guidelines will be developed over the summer of 2005 with a final plan being presented in September 2005 to the UW Campus Planning Committee and in October 2005 to the Board of Regents.

Questions can be directed to:

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