

**Master Planning Committee
of
University of Alaska Fairbanks**

MEMORANDUM

DATE: April 17, 2008

TO: Steve Jones, Chancellor

FROM: Rich Boone, MPC Chair *Rich Boone*

RE: MPC Recommendation 08-03 – Campus Master Plan 5-Year Update

BOR P05.12.030 reads in part:

“Campus master plans will be revised as necessary in response to changes in strategic plans, educational objectives, enrollment plans, teaching techniques, space plans, new technologies, regulatory mandates, and expected funding. Campus master plans shall be formally reviewed and updated on a 5- to 7-year cycle.”

One primary task of the UAF Master Planning Committee (MPC) is to continually update the UAF Campus Master Plan (CMP), which was approved in 2002 and has since been used extensively to guide the development of the UAF campus. The MPC has worked diligently over the past year to develop the UAF Campus Master Plan 5-Year Update. This spring the draft Update was made available for public comment. Feedback was reviewed and considered by the MPC, and the draft Update was revised accordingly.

At its April 10, 2008, meeting, by majority vote the MPC approved the following recommendation and the attached UAF Campus Master Plan 5-Year Update (recommendation approved 7-0, 1 abstention):

The Master Planning Committee endorses the Campus Master Plan 5-yr Update, including progress and 5-yr action steps. We submit it to you for your review and approval by Chancellor's Cabinet.

MPC Vice-Chair Deb Horner and I plan to attend the May 12, 2008, chancellor's cabinet meeting to answer any questions cabinet members may have about the Update. We look forward to cabinet's approval of the Update. Thank you.

RB

UAF Campus Master Plan 5-Year Update

In 2002, the current UAF Campus Master Plan (CMP) was approved. It has provided the roadmap for the development of the physical environment of campus since that time. A five-year update was specified in the plan in order to document progress and make adjustments to the plan, if needed, to ensure that it reflects the evolving needs and priorities of the university. Conducted in AY07-08 by the Master Planning Committee (MPC), the update includes recommendations for revisions to the goals and actions, progress on actions, and suggested activities for the next five years. A full review of the CMP will be conducted in 2012.

It should be noted that the CMP was specifically designed to guide the development of the Fairbanks Campus. However, UAF is a multi-campus institution. As part of its College of Rural and Community Development (CRCDD), there are six community campuses, including Bristol Bay, Chukchi, Interior-Aleutians, Kuskokwim, Northwest, and Tanana Valley. By virtue of their unique missions, core services and locations, the CMP was not a document that could, or should, be exported for a one-size-fits-all application at these campuses. It did serve as the template for the campus master plans that were developed at each location and completed in 2006. Furthermore, certain standards contained in the CMP may, in fact, be applicable in the rural locations. But those standards are applied on a case-by-case basis, recognizing the needs and priorities of the communities that are served by the rural campuses. The community campus master plans are available at <http://www.uaf.edu/fs/ruralcampusplans.html>.

Since the 2002 inception of the CMP, the university has embarked on an ambitious planning agenda. In the intervening years, the Strategic Plan 2010, Academic Development Plan, Enrollment Management Plan, Campus Life Master Plan and, most recently, the Vision 2017 Plan have been developed and are in various stages of implementation. In updating the CMP, it was critical that the goals and objectives of these other plans be considered in order to ensure that the physical environment supports their achievement. The MPC has identified the following critical issues that will influence the development of campus during the next five years and well into the future:

- There are critical facility limitations on growth. How will projected growth, particularly in enrollment and research, be accommodated in all areas of the physical environment?
- Creating a sustainable campus environment is essential and will become increasingly important relative to diminishing energy resources and the influences of climate change. How should sustainability be defined at UAF?
- Energy consumption will be a major influence on future campus development. How will UAF address its energy issues?

Goals

The 2002 Campus Master Plan (CMP) developed five major goals for campus development through 2012, which appear in the left-hand column below. In the right-hand column are recommended revisions to the original goals.

<i>Original goal:</i>	<i>Recommended revision:</i>
<i>I. Create an efficient and attractive campus environment conducive to learning</i>	Ensure that the campus environment supports the goals of teaching, research, and service, is focused on student success, and is attractive
<i>II. Improve community access to the UAF campus</i>	Consolidate goals II, III, and IV: Improve access to and circulation within campus for students, faculty, staff, and the community-at-large that is both safe and efficient
<i>III. Make vehicle circulation and parking simple and direct</i>	
<i>IV. Promote safe and efficient travel throughout campus for pedestrians and non-motorized uses</i>	
<i>V. Highlight natural assets of campus and the unique northern environment</i>	Maintain active stewardship and continue to highlight the natural assets of the campus' unique northern environment
<i>New goal:</i>	
<i>IV. Create a sustainable campus community</i>	

Significant Progress

The CMP provides the road map for campus development, and the Master Planning Committee (MPC) is charged with overseeing progress on the plan, discussing campus development issues and advising the Chancellor relative to those issues. The actual implementation of the plan is, for the most part, carried out by Facilities Services.

The following are some of the more significant areas of progress during the past five years. Table 1, pages 4-11, details actions and progress over the past five years.

- Three satellite plans were developed and approved to provide goals and actions specific to the North Campus, Campus Landscape, and Circulation and Parking
- Completion of campus master plans for each of the rural campuses
- Completion of the University of Alaska Museum of the North expansion and renovation, construction of the West Ridge Research Building, and the Biosciences Research and Diagnostics Building
- Completion of a Campus Life Master Plan that details expansion of Wood Center, renovation of Constitution Hall, and new student housing options
- The Cold Climate Housing Research Center was built on university land, representing collaboration between the private and public sector on research that directly benefits the residents of Alaska
- Completion of Thompson Drive, the campus gateway entrance, including the first roundabout in the Fairbanks North Star Borough
- Installation of wayfinding signs throughout campus that are consistent in design, including new entrance signs at the north, east and west entrances to campus

- Engineering study of the designated research and development area adjacent to Geist Road that enabled better decision-making relative to that area
- Significant changes to parking on campus, as well as the campus shuttle system
- A process for overseeing use of the North Campus area and insuring that appropriate teaching, research and recreation activities are all accommodated
- Creation of the West Ridge Plaza and landscape plan incorporating learning habitats for use in teaching and research.

The Next Five Years

Table 2, pages 12-16, contains the recommended actions and specific implementation steps for the next five years. As in the original plan, the actions and/or implementation steps are not prioritized, nor are funding vehicles identified. This is beyond the purview of the Master Planning Committee. However, it is the expectation that the plan will guide decision-making by senior administration as it relates to campus development.

Some of the more significant implementation steps include:

- Obtain funding and complete construction of the BIOS Building
- Promote the Campus Life Master Plan, including garnering student support for financing some portion of the construction costs
- Define the parameters of, and develop a plan for, a sustainable campus community at UAF
- Conduct a comprehensive evaluation of the facility limitations on growth in all sectors of the university
- Review the student housing recommendations of the CLMP in concert with the Enrollment Management Plan to determine how best to meet projected enrollment trends.
- Address classroom space needs on West Ridge and continue upgrading efforts in existing classroom space on Lower Campus
- Obtain funding to complete Tanana Loop in order to simplify vehicular circulation and make the center of campus more pedestrian-friendly
- Establish a privately-funded landscape and campus art endowment program
- Construct the campus gateway entrance sign on Thompson Drive
- Identify a new location for a research and development park

Table 1 – Actions and Progress

ACTION	PROGRESS REPORT
A1. Concentrate future building sites within the perimeter of Tanana Loop, increasing the density of existing core areas. See the following link for the “Future Campus Map”: http://www.uaf.edu/mastplan/map.html	• Site 2 – Currently, three modular buildings are located directly east of the AHRB building and are used for graduate students • Site 4 – North of West Ridge greenhouse, this site has been designated for the BIOS building. The new building will encroach upon part of Site 20; the greenhouse will be relocated south of AHRB • Site 6 – The Museum expansion project was completed utilizing this site. • Site 18 – The Biosciences Research and Diagnostics (BiRD) facility was constructed on this site and completed in 2006. The Department of Health and Social Services is constructing a new facility directly adjacent and connected to BiRD to house the State Virology Office, slated to be complete in 2008. The remainder of Site 18 may be used for surface parking associated with BIOS. • Site 20 – North of Site 4: This site was converted to a parking lot. Three modular buildings were located on the south side of the site to house research activities of the USDA Agriculture and Research Service (ARS). • Site 21 – The West Ridge Research Building (WRRB) was constructed on this site. • Site 9 – Copper Lane area: Since 2002, two of the houses along Copper Lane have been razed; the rest of the buildings are slated for eventual demolition. There are no existing plans to build on this site. • Site 10 – West of Wood Center (location of expansion project): In November 2005, a Campus Life Master Plan for UAF was completed. The plan calls for an addition to Wood Center that would house the bookstore and dining service space to be constructed on Site 10. • Site 14 – South of Patty Ice Rink: new locker facilities were constructed on this site.

ACTION	PROGRESS REPORT
A2. Consolidate related programs in designated buildings to improve program identity and access.	• Brooks Building - Alaska Native and rural development programs, including the Alaska Native Language Center, classrooms and gathering area, occupy this building. • Duckering Building – All engineering programs, including the mining engineering programs (previously housed in the Brooks Building as the School of Mineral Engineering) the Water and Environmental Research Center, and the Institute for Northern Engineering are located in this building. • Gruening Building –This building is used primarily for academic departments and classrooms. The long range plan is to relocate the few remaining student services units to the Eielson Building after the completion of the Biosciences Building. • Eielson Building – Facilitated by the move of several units to off-campus locations, the Graduate School was relocated from Signers' Hall to Eielson, Summer Sessions gained more space, and Career Services was able to relocate from Gruening into more and better configured space in Eielson.
A3. Design new and retrofitted buildings to contribute to the campus environment, using energy conservation techniques suited to the subarctic climate.	• Both the WRRB and BIRD buildings were constructed with mechanical heating, ventilation and cooling systems that are controlled by energy-saving programmable systems. The BIRD building has heat recovery units on the air handlers to recover waste heat. 68% of total square footage on campus is controlled by direct digital controls. • The Cold Climate Housing Research Center (CCHRC), which is located in the designated research and development area off Geist/Fairbanks Street, was built specifically to demonstrate energy conservation techniques suited to the subarctic. Ongoing research is conducted at the center on building techniques for the subarctic • Facilities Services has compiled a report on sustainable practices currently in use on campus • A Utilities Development Plan was completed in 2006 that provides recommendations for maintaining and expanding heat and power

	service to the campus for the next 20 years. The plan recommended continuing with a central plant using solid fuels (coal and biomass). The combined heat and power configuration provides the maximum efficiency, although it does require a significant capital investment. Energy efficiency and sustainability are slated as areas for further study to be incorporated into the long term plan.
A4. Develop a landscape plan and site design standards that will provide year-round plant diversity and enhance the overall appearance of campus.	• The Campus Landscape Plan was completed in June 2004. http://www.uaf.edu/nmastplan/landscape/index.html • The Campus Landscape and Outdoor Art Subcommittee (CLOA) was formed in 2004.
A5. Require landscaping and site enhancements as part of all new construction projects.	• Landscaping and site enhancements are still not a requirement for all new construction projects.
A6. Enhance existing and create new, outdoor gathering areas and plazas.	• A new plaza area was created on West Ridge after the utilidor project was completed. All of the parking was removed from the area, a one-way serpentine road was constructed, and open areas created for future landscaping. • Landscape plans for the West Ridge and Cornerstone Plazas were completed. See http://www.uaf.edu/nmastplan/landscape/index.html for more details related to the West Ridge and Cornerstone Plaza plans. • The small parking lot across from the MBS complex was eliminated and an outdoor gathering area created.
A7. Provide lighting throughout campus that maximizes safety, enhances wayfinding and minimizes light pollution.	• New and replacement lighting on campus is emphasizing downlighting features in order to minimize the impact on the night sky during the winter months.

ACTION	PROGRESS REPORT
A8. Improve and expand housing opportunities for students and faculty.	As part of the Campus Life Master Plan, which was completed in 2005, a comprehensive analysis of the current housing situation was completed. The plan makes many recommendations for both improvement and expansion to housing opportunities for students and faculty.
A9. Identify and evaluate sites on campus land outside the Tanana Loop perimeter for special function buildings such as a research and development park, public safety, parking, community service and other support functions.	- An engineering study of the parcel identified in the "Future Campus Map" in the CMP was completed in April 2006 by Dowl Engineers of Anchorage. The study provided extensive information on soil conditions and hydrology of the area, both of which are not conducive to intensive development. - The MPC has recommended to the Chancellor that other locations be considered for a research park. - The Cold Climate Housing Research Center (CCHRC) was built on a site in this area. The site was ideally suited for purposes of CCHRC's research on effective building techniques in the subarctic.
A10. Build parking garages on campus at designated sites.	There has been no progress on this action. The primary reason is funding, but it is included in the Capital Plan each year.
A11. Provide a quick and efficient year-round shuttle bus system throughout campus.	- Implemented circular routes servicing all of campus in the Fall of 2005. - In January 2006, five new busses were put into service.
A12. Complete Tanana Loop.	- An engineering study was completed that details soil conditions and topography and presents potential alignments for the road. There are challenging soil conditions in the area, as well as issues with incursions into North Campus and research plots. - The project has been submitted to DOT and is on both the STIP and FMATS, and UA capital request lists for funding.

ACTION	PROGRESS REPORT
A13. Increase parking along the perimeter of campus and subsequently reduce parking in the interior.	• Small parking lots in the interior of campus that have been removed include the Noatak lot (at the junction of Tanana Loop and Alumni Drive); along Kobuk Ave. across from the Chancellor's residence; on the south side of Yukon Drive directly across from the MBS residence complex; and all of the parking areas that were in what is now West Ridge Plaza. • To make up for the loss of parking resulting from the closing of these areas, the following parking areas were created: a new lot in back of the MBS complex; the Nenana lot was expanded to the west, although there are no headbolt heaters in this section of the lot; a new lot was opened along Sheenjek Drive to the west; the parking lot to the west of AHRB was expanded, including the addition of headbolt heaters; and a new lot was added behind the Museum to accommodate visitor and staff parking during the summer but that faculty, staff and students can use during the winter months.
A14. Designate accessible, short-term parking for commuter students, community members and visitors.	• More than 100 designated visitor and short term metered parking spaces were installed throughout campus in summer of 2006. • Spring of 2007, parking permit kiosks were installed allowing commuter students and visitors easy short term access to UAF 3700 regular decal spaces on campus.

ACTION	PROGRESS REPORT
A15. Provide direction and information signs throughout campus that are clear and consistent in theme, location and design.	• A design and color theme was established for the university wayfinding system. The following were installed using the new theme: ▶ All street name signs ▶ Large, permanent roadside directional signs and permanent campus map signs at six different locations, to date. ▶ Permanent monument signs at AHRB, LARS and TVCC ▶ Temporary parking lot identification signs at entrances to nearly all parking lots on campus, and temporary monument signs at off campus locations. • Building identification signs that have been installed include: • Name letters on AHRB, Akasofu and Reichardt buildings, WRRB and the North side of Elvey, O'Neill and Irving, since visitors are directed to the North side now. • Light pole banners have been installed. The banners are mounted on light poles directly in front of the location they are announcing.
A16. Present a unified image in campus roadway and entrance design.	• A new gateway entrance to the university, Thompson Drive, was completed at the intersection of Geist and Loftus Roads. A large entrance sign was designed by Bezek Design (consultant firm for campus wayfinding and signage), in cooperation with a campus committee. The sign is consistent with other signage throughout campus, both in design and colors. However, due to cost, the sign has not been installed. • Interpretive signs at the turnout along the road have been completed and installed. One sign is about UAF, a second on the boreal forest environment, and two on the engineering of the road along with a short biographical statement on the Thompson family. • The sign at the east entrance to campus on Alumni Drive was redesigned and incorporates a time/temp/event reader board. • The sign at the west entrance to campus on West Tanana Loop (aka Farm Road) is similar in design to the Alumni Drive sign. A similar sign has been constructed at the north entrance to campus as well.

ACTION	PROGRESS REPORT
A17. Ensure that roadway and intersection designs emphasize safety and efficiency.	• The Thompson Drive design included the borough's first roundabout. • The redesign of the intersection of Tanana Loop and Alumni Drive, while somewhat confusing, appears to be safe. Few accidents have occurred here since it was redesigned. • Kuskokwim Drive, west of the MBS complex, was paved although there is still no sidewalk along this heavily traveled (both vehicles and pedestrians) road. • Taku Drive was redesigned as a one-way street with traffic only permitted to go down the hill to the Ballaine and Taku parking lots or to Farmer's Loop. This eliminated hazards to both pedestrians and drivers.
A18. Create safe and attractive corridors close to all campus roadways for non-motorized uses.	• With the construction of Thompson Drive, a broad sidewalk was completed along the south side of the fields in front of the SRC to the roundabout. A sidewalk was also constructed all along the length of Thompson Drive on the east side. • The walkway between the Wood Center and the Chapman Building was upgraded. • Sidewalks along Yukon Drive have been updated. There is continuous sidewalk to the Museum; however, it is not all separated from the roadway with a buffer. • The sidewalk was extended along the north side of Tanana Loop in front of Patty Center and the playing fields to the roundabout on Thompson Drive
A19. Develop Yukon Drive into a safe and appealing environment for pedestrians and non-motorized uses.	• The addition of a sidewalk on the north side of Yukon Drive from Wood Center to the MBS Complex, including landscaping, benches, and a buffer between the roadway and sidewalk, improved pedestrian safety significantly • Continuous sidewalk along the north side of Yukon Drive from the Whitaker Building (Fire and Police Departments) was constructed
A20. Establish direct connections to the UAF trail system from points throughout campus.	• The Circulation and Parking and North Campus Subcommittees are working together to develop a plan for direct connections from campus to the trails system

ACTION	PROGRESS REPORT
A21. Make all walkways on campus safe and direct.	• See Actions 18, 19 and 20.
A22. In selected areas, protect scenic views and/or establish stands of trees.	• The south side of Yukon Drive from opposite the MBS complex west has been designated as a no-build zone in order to protect the viewshed south across the Tanana Valley to the Alaska Range.
A23. Preserve the agricultural function and character of the Agricultural and Forestry Experiment Station (AFES) lands.	• There have been no activities directly associated with the AFES that required MPC action since 2002. • The Agricultural and Forestry Experiment Station is developing a master plan for the farm, to be presented to the MPC for review and comment.
A24. Protect the integrity of the North Campus area for education, research and recreation; including maintaining and promoting the UAF trail system as a significant campus and community asset.	• The North Campus Plan was completed in 2004 (http://www.uaf.edu/mastplan/northcampus/index.html) • The North Campus Subcommittee was established in 2002 • Several critical issues relative to the North Campus have been successfully resolved since the implementation of the plan. See the North Campus update at the website cited above
A25. Use art on campus to highlight special areas and enhance the overall surroundings.	• The landscape plans for West Ridge and Cornerstone Plazas provide specific locations for permanent artworks

Table 2 - Actions and the Next Five Years

ACTION	THE NEXT FIVE YEARS:
A1. Concentrate future building sites within the perimeter of Tanana Loop, increasing the density of existing core areas.	• Develop specific site plans for Site 17 (junction of North Tanana and Tanana Loop) that will capitalize on the unique natural features of this area of campus, including landscape enhancements and vegetative buffers.
A2. Consolidate related programs in designated buildings to improve program identity, efficiency and access.	• Obtain funding and complete construction of the BIOS Building • Continue to monitor space for underutilized and/or inappropriately utilized areas. • Determine the feasibility of creating a one-stop enrollment shop by conducting a space analysis of Lola Tilly Commons; • Support the Honors Program sustainable retrofit demonstration project
A3. Design new and retrofitted buildings to contribute to the campus environment, using energy conservation techniques suited to the subarctic climate.	• Seek highest LEED certification possible for BIOS.
A4. Develop a landscape plan and site design standards that will provide year-round plant diversity and enhance the overall appearance of campus. A5. Require landscaping and site enhancements as part of all new construction projects. <i>Consolidate A4/A5: Continue to provide year-round plant diversity and enhance the overall appearance of campus.</i>	• Complete West Ridge Plaza landscaping, including constructed areas. • Explore opportunities for a landscaping (including public art) and maintenance endowment. • Develop specific criteria for landscaping associated with all new construction projects.
A6. Enhance existing and create new, outdoor gathering areas and plazas.	• Develop a final plan for the Troth Yeddha Park; • Continue efforts to complete the West Ridge and Cornerstone Plaza landscape projects, including obtaining private funding.

ACTION	THE NEXT FIVE YEARS:
A7. Provide lighting throughout campus that maximizes safety, enhances wayfinding and minimizes light pollution.	• Ensure that all exterior light fixtures blend with campus, are consistent in color and style, and meet very high efficiency standards.
A8. Improve and expand housing opportunities for students and faculty.	• Review the student housing recommendations of the CLMP in concert with the Enrollment Management Plan to determine how best to meet projected enrollment trends • Revise "The Future Campus" map and eliminate the potential high density residential area located directly to the north of the Cutler Apartment Complex. • Concentrate efforts to establish high density housing in the North Chandalar area. • Determine whether or not to continue providing faculty housing on campus.
A9. Identify and evaluate sites on campus land outside the Tanana Loop perimeter for special function buildings such as a research and development park, public safety, parking, community service and other support functions.	• Finalize a plan for the area off Geist and Fairbanks Street that specifies the extents to which any future building of facilities similar to CCHRC, including CCHRC expansion, may occur. • Identify a new location for a research and development park • Work with Statewide Land Management to finalize a plan for the use of Bunnell Park on Geist Road.
A10. Build parking garages on campus at designated sites <i>Revise to (consolidation of A10 and A13): Provide a variety of parking options, including high density, perimeter, and close-in, where appropriate. Parking should maximize personal safety, as well as circulation, maintenance and utility efficiencies.</i>	• Construct high density parking on campus whenever possible, including incorporating underground parking into building designs where appropriate • Build a parking lot on remainder of Site 18 to accommodate BIOS and other West Ridge parking needs. • Continue to plan for perimeter parking options on West Ridge relative to new construction.
A11. Provide a quick and efficient year-round shuttle bus system throughout campus. <i>Revise to: Provide a quick and efficient year-</i>	• Ensure that the shuttle headway time between West Ridge and Lower Campus does not exceed 10 minutes. • Continue to participate in the implementation of the FNSB Coordinated Transportation Plan.

<i>round shuttle bus system throughout campus, and provide easy access to the FNSB MACS transit system.</i>	• Work with the FNSB Transportation Department to provide safe MACS transit bus stops on West Ridge.
A12. Complete Tanana Loop.	• Charge the NCS with identifying issues relative to the completion of Tanana Loop on North Campus and plans for resolution. • Complete the design of Tanana Loop • Obtain funding to complete Tanana Loop in order to simplify vehicular circulation and make the center of campus more pedestrian-friendly
A13. Increase parking along the perimeter of campus and subsequently reduce parking in the interior. <i>See revised action, A10. above</i>	See A10. above
A14. Designate accessible, short-term parking for commuter students, community members and visitors.	• Continue to increase the availability of bicycle parking stands throughout campus that are close to buildings and accessible.
A15. Provide direction and information signs throughout campus that are clear and consistent in theme, location and design.	• Continue to place directional signage throughout campus according to the sign standards
A16. Present a unified image in campus roadway and entrance design.	• Construct the campus gateway entrance sign to Thompson Drive.
A17. Ensure that roadway and intersection designs emphasize safety and efficiency.	• The intersection of Yukon Drive and Tanana Loop at the west end should be redesigned as part of the Tanana Loop extension completion.

ACTION	THE NEXT FIVE YEARS:
A18. Create safe and attractive corridors throughout campus for non-motorized uses.	• Determine an appropriate design standard for sidewalk buffers along campus roadways. • Construct new sidewalks along Yukon Drive from the west end of the Reichardt Building to the intersection with Tanana Loop, as well as in front of the MBS complex. Sidewalk should comply with design standards. • Install a pedestrian crossing light on Tanana Loop at the Nenana parking lot. • Address pedestrian and bike issues along Tanana Loop from the roundabout to the top of the hill in front of the Butrovich Building. • Install a continuous sidewalk on the east side of Tanana Loop from the intersection at the south end of Yukon Drive, past faculty housing and Harwood Hall, to the north end of Tanana Loop. • Install a sidewalk along Kuskokwim Drive from Cutler Apartments to Yukon Drive. • Address pedestrian issues on the west side of Tanana Loop from the overlook parking area to IARC and West Ridge Plaza. • Make the entrance to Fairbanks St, (now a pedestrian way) ADA compliant and provide a bicycle cut. • Support the construction of the bike path along Miller Hill.
A19. Develop Yukon Drive into a safe and appealing environment for pedestrians and non-motorized uses.	• Extend sidewalk from the Museum to Tanana Loop on north side of Yukon Drive • Redesign the sidewalk from the Natural Sciences Facility to the Museum with a separation between the roadway and the sidewalk.
A20. Establish direct connections to the UAF trail system from points throughout campus.	• Finalize the plan for trail connections from campus to North Campus
A21. Make all walkways on campus safe and direct. <i>Eliminate this action; A18 covers both</i>	• Road crossings need to be improved, particularly from the Nenana Lot to the Patty Center and at the junction of Yukon Drive and Tanana Loop on the west end; • Continue to construct pedestrian walkways along roadways on campus;

	Support efforts to improve the walkway from Yukon Drive south of the MBS complex to the Lower Dorms and Lola Tilly Commons
ACTION	THE NEXT FIVE YEARS:
A22. In selected areas, protect scenic views and/or establish stands of trees.	- Conduct an inventory of tree stands on campus; - Develop silviculture prescriptions for all designated tree stands
A23. Preserve the agricultural function and character of the Agricultural and Forestry Experiment Station (AFES) lands.	Review and comment on the master plan for AFES
A24. Protect the integrity of the North Campus area for education, research and recreation; including maintaining and promoting the UAF trail system as a significant campus and community asset.	Determine the issues on NC that are critical to the completion of Tanana Loop.
A25. Use art on campus to highlight special areas and enhance the overall surroundings.	- Re-establish a university-wide program for art in public places, including funding, selection and maintenance; - Establish a landscape and campus art endowment fund; - Obtain permanent outdoor sculptures that are representative of the circumpolar regions featured in the West Ridge Learning Habitats; - Engage in an active fundraising program for public art at UAF.
A26. Promote energy-conservation, alternative energy, and waste reduction on campus (<i>new action</i>)	- Determine what recycling efforts can be carried out on campus that do not require external support; - Collaborate with the FNSB to design and implement a borough-wide recycling program; involve students in the process; - Encourage Facilities Services to re-examine the Utilities Plan to include energy produced from non-fossil fuels - Implement a rewards program for drivers of energy-efficient vehicles (ex. reduced parking fees); - Reduce phantom electric (turning off computers, printers, etc.) usage
A27. Define the sustainable campus goals for UAF. (<i>new action</i>)	- Create a sustainable campus subcommittee of the MPC - Identify the focus of UAF's efforts in sustainable campus practices - Identify responsibility and authority for sustainable campus policies and practices

	• Conduct a sustainable campus audit • Create a clearinghouse for sustainable campus activities
ACTION	THE NEXT FIVE YEARS:
A28. Identify the effects of projected growth on the physical infrastructure of the university (<i>new action</i>)	• Conduct a comprehensive evaluation of current facility limitations on growth in enrollment and research • Determine housing requirements in order to meet projected enrollment goals • Address classroom space needs on West Ridge and continue upgrading efforts in existing classroom space on Lower Campus