2015-2025
USF System
Campus Master Plan Updates

Appendix C
Evaluation and Appraisal Report

Tampa

USF
UNIVERSITY OF SOUTH FLORIDA
SYSTEM

Evaluation and Appraisal Report

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Evaluation and Appraisal Report

2015-2025 USF Campus Master Plan Update

The Evaluation and Appraisal Report was the documentation of the first review of the Goals, Objectives, and Policies of the 2010-2020 USF Campus Master Plan Update. It was a preliminary assessment of whether each item was completed, an on-going effort, not implemented, or should be deleted.

The Report was done in 2014 for the required Elements 4 – 11 with the participation of the Master Plan workgroups which had been assembled for each Element in preparation for the five year 2015-2025 USF Campus Master Plan Update. The workgroups were composed of USF students, faculty and staff with knowledge of each area and who could contribute to the Update documents.

As the Update work progressed over time, most of the initial assessments and recommendations for the updates to the Goals, Objectives, and Policies were included in the proposed revisions, some were reconsidered, and some new edits were made based on feedback and reducing duplication throughout the document.

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Element 4: Future Land Use.

Goal 1: The Future Land Use goal of the Tampa Campus Master Plan is to clarify and strengthen the established campus land use pattern and improve the relationship between land uses on and off the campus. (See Figures 4-1, 10 Year Campus Master Plan Concept, 4-2, Long Range Campus Master Plan Concept, and 4-3, Context Area).

Objectives & Policies		Status: Complete	Status: Ongoing	Status: Not Implemented	Current Condition	Delete?	Comments/Problems/Recommendations
Objective 4.1	Ensure more effective use of land and containment of walking distances in the academic/residential core through higher density development and infill. Concentrate program expansion in existing land use districts. Abide by the recommended minimum, and where indicated maximum, build out and FAR limits for each land use district as described and illustrated in this plan element and the USF Design and Construction Guidelines.						
Policy 4.1.1	**The** University shall abide by the land use districts as described and illustrated in this plan element in locating facilities, to maintain compatibility of uses, to maintain efficient use of the land resource, and to reduce distance and improve quality of connections between functions so as to reduce vehicle use on campus by encouraging non-vehicular circulation – walking and bicycling – and shared shuttle and potential tram access. Further, the adoption of land use/density districts as described herein will guide the concentration of academic and residential expansion within existing use districts. The maximum allowable intensity of development for each respective district shall be the "recommended maximum build out" for the eight land use districts as indicated in this element. The "mix" of allowable land uses for each respective district shall be as specified for the districts in this element. It is expressly clear and understood that district densities are recommendations. Any calculations for determining threshold changes per s. 1013.30(9), F.S., will be based on total campus density or impact. Policy 4.1.2: The University shall abide by land(...)		x				check wording at end

Policy 4.1.2	The University shall abide by land management procedures to ensure careful use of the University's existing land resources. Those procedures shall consist of the application of policy actions as described in Element 4, Future Land Use policies, and will be administered by the Office of Facilities Planning and Construction.		x				
Policy 4.1.3	One-story temporary structures are inefficient in terms of land use, energy consumption, and maintenance funds, and create potential risks in the event of a hurricane or other natural disaster. The University shall remove one-story occupied temporary buildings as soon as practical. Installation of additional units shall be prohibited, except on an emergency basis with removal dates prescribed and monitored.		x				to consider adding "perminent" and "threshold"
Policy 4.1.4	The University shall assess the appropriate location for unforeseen functions or land uses that may arise from grant awards or other unanticipated circumstances by comparing those unforeseen uses with the uses and 10-year density guidelines set forth for land use districts in this plan element. Upon the determination of appropriate location and consistency with adjacent programs, open space and circulation functions, and density guidelines, the University will undertake pre-planning and site planning studies. In the event that the appropriateness is in question, the subject use will be submitted for review under the procedures of Policy 4.9.2 below.		x				
Policy 4.1.5	The University shall concentrate academic and residential program expansion in their respective Land Use districts as shown in Figure 4-4, 10 Year Campus Land Use Districts. Building locations indicated in Figure 4-1, 10-Year Campus Master Plan Concept may be exchanged for other building locations, as depicted in Figure 4-2, Long Range Campus Master Plan Concept, if the alternative location is deemed preferable due to unforeseen or changed conditions related to program, cost, or other justifiable reason, and is within the same Future Land Use District. Any such location changes shall be effected by approval of the USF Board of Trustees without a Campus Master Plan amendment, provided that the project supports the primary land use function and is consistent with Figure 4-2, Table 4.1, Potential Building Development Capacity – 10 Year Plan and Table 4.2, Potential Structured Parking Capacity – 10 Year Plan in this element, as well as with the Campus Development Agreement with the City of Tampa.		x				

Policy 4.1.6	The University shall, through its monitoring and management of future development, ensure that the amount of future development within each land use district will meet or exceed the capacities identified in Table 4.1 in this element.		x				
Objective 4.2	Preserve and protect existing natural resource areas including Lake Behnke, located along Bruce B. Downs Boulevard, the wetland area at the corner of Fletcher and 50th Street and the 735-acre USF Forest Preserve Area north of Fletcher Avenue.						"USF Forest Preserve Area"
Policy 4.2.1	The University shall protect natural resources in three ways:						
	• The USF Forest Preserve Area shall not be developed.		x				"USF Forest Preserve Area"
	• Open spaces within land use districts shall be preserved in accordance with provisions in Element 9, Recreation and Open Space.		x				
	• The University shall adhere to Element 8, Conservation policies regarding environmental management, and shall require adherence to these standards by all parties performing design and construction of facilities on University property.		x				
Objective 4.3	Identify, evaluate, and protect historically significant cultural, architectural, and archaeological resources that are known or may be discovered on the Tampa campus.						
Policy 4.3.1	The University shall maintain an inventory and evaluation of all archaeological and historic properties under University ownership that have been determined by professional architectural historian or preservation planner to qualify for the National Register of Historic Places. Buildings that have not yet been reviewed, but appear to the University Office of Facilities Planning and Construction to qualify for the National Register of Historic Places shall be identified for potential evaluation.		x				

Policy 4.3.2	The University shall identify campus buildings which will reach the 50-year threshold for “historical resource” during the 10 year planning timeframe of the Campus Master Plan. In respect of the possibility that such a building may come under consideration for demolition, renovation, or addition, the University will endeavor to assess such building for its historical and architectural significance prior to a building’s reaching 50 years of age. The assessment will be conducted by a qualified architectural historian. (See Figure 4-7, Potential Demolition.)			x			revisit
Policy 4.3.3	The University shall consult and coordinate with the Department of State's Division of Historical Resources prior to any land clearing, ground disturbing, or rehabilitation activities which may disturb or otherwise affect any property which is included, or eligible for inclusion, in the National Register of Historic Places.		x				
Policy 4.3.4	The University shall consider the effects of such an undertaking identified in Policy 4.3.2 above on any historic property that is included, or eligible for inclusion, on the National Register for Historic Places. The University shall afford the State Division of Historical Resources a reasonable opportunity to comment on such an undertaking.						refer to 4.3.2
Policy 4.3.5	Prior to a historic property or site being demolished or substantially altered in a way that adversely affects its character, form integrity or archaeological or historical value, the University shall consult with the Department of State's Division of Historical Resources to avoid or mitigate any adverse impacts, or to undertake any appropriate archaeological salvage excavation or recovery action.		x				revisit
Policy 4.3.6	In cases where avoidance or mitigation strategies are not feasible, the University shall undertake Phase III recovery prior to disturbing any site identified as significant in the USF archaeological survey.						research
Objective 4.4	Continue to implement, enhance and maintain the Greenway as a natural and cultural resource on the campus.						
Policy 4.4.1	The University shall protect existing natural resources by designating the Greenway area (which contains most of the significant natural resources of the main campus) as a separate and distinct land use district, within which:						

	• No new buildings will be constructed except those which support recreational activities, i.e., restrooms, natural and cultural resource interpretive activities, such as the Botanical Garden and Arboretum facilities, or those which serve sound stormwater management practices.		x				
	• Existing paved parking and vehicular circulation functions, except those that traverse the Greenway as part of the campus loop road system, will be removed as replacement facilities are developed. Emergency and maintenance vehicular access will be provided through pedestrian facilities designed to accommodate vehicular weight and movement.		x				
	• Planting and reclamation of native plant communities will be undertaken		x				
	• The creation of wet and dry retention/detention facilities will be undertaken to provide for the stormwater management needs as generated by the projected land use development.		x				
Policy 4.4.2	The University shall abide by the delineation of the Greenway Corridor as identified in Figure 4-6, Encumbrances, Leases, Subleases, and Easements to:						
	• Establish a primarily permeable landscape corridor		x				
	• Reduce heat island effect		x				
	• Maintain a strong complement to the developed sectors of the campus;		x				
	• Ensure the capacity to provide for and make visible stormwater management treatment. A definitive stormwater management plan will continue to be maintained to accommodate campus stormwater needs within the Greenway area and throughout campus lands.		x				
Policy 4.4.3	The University shall undertake phased implementation of a campus wide Botanical Garden/Arboretum, administered through expanded facilities located near the current site at Lake Behnke. Initial expansion shall focus on Greenway implementation, but shall also include localized quadrangles and courtyards as opportunities arise.			x			discuss with Lori
Policy 4.4.4	The University shall encourage student and community engagement with the Greenway through implementation of educational, research, and informal recreational opportunities within the Greenway and activation of the edges through priority siting of building facilities such as housing, arts, recreation, student life, and dining at its edges.		x				

Policy 4.4.5	The University shall seek to maximize the benefits of “identity” and “wayfinidng” gained through implementation of the Greenway as a visually strong and distinct element in the campus framework.		x				
Objective 4.5	Preserve and amend existing street and major utility corridors to ensure adequate utility access compatible with implementation of planned development, open space framework, and non-vehicular circulation.						
Policy 4.5.1	The face of all future buildings shall be set back at least seventy-five (75) feet from the adjacent roadway center line (as illustrated in Figure4-8, Build to Framework. This policy shall extend to new construction on sub-leased lands shown in Figure 4-6.		x				
Policy 4.5.2	The University shall preserve existing street corridors for circulation and open space use. In support of 2010 planning principles establishing a more pedestrian dominated core, improving campus wayfinding, and increasing pedestrian, bicycle and vehicular safety, roadway modifications are recommended, as follows:						
	• The campus loop road system shall be modified to establish stronger visual and physical connections, with greater pedestrian safety, between housing areas north of Holly and campus areas south of Holly by closing the section of Holly extending east of the Crescent Garage to west of Maple Hall B to regular vehicular traffic and limiting this section of the corridor to pedestrian, bicycle, Bull Runner, emergency, and service access (special allowances lifting restrictions during move-in, move-out periods shall be permitted).						revisit
	• The modified primary internal campus loop road shall divert vehicular traffic from East Holly to a proposed extended Laurel Drive (Maple to Magnolia) and will be composed of made up of Laurel (and secondarily West Holly between Palm and Magnolia), Magnolia, Alumni, and Maple Drives.						revisit
	• Leroy Collins shall be modified to reduce vehicular-pedestrian conflict and become primarily ceremonial drive north of Alumni Drive. Primary modifications include: termination of roadway just south of Sessums Mall to allow free pedestrian flow east to west on Sessums; and reduction in traffic accessing parking areas including surface lots and Collins Garage by redirecting portions of this traffic to an extended Sago Drive and administrative measures regulating parking access.		x				

	• North Palm, Bull Run, Alumni, and Sycamore Drives will be maintained, with selective adjustments to horizontal alignment for improved wayfinding clarity and safety.						revisit
	• Elm Drive will be discontinued as a general vehicular way, but will continue to be used for service and emergency access as it is converted into an extension of Sessums Mall.						reword to make clear
	• Various access driveways to parking and other destinations on the campus may be altered or realigned in conjunction with development projects. (See Element 5, Transportation, for additional policy regarding roadways, vehicular and non-vehicular circulation.)					x	
Objective 4.6	Ensure that future land uses are compatible with and appropriate to topographic and soil conditions on campus.						
Policy 4.6.1	The University shall, through the Office of Facilities Planning and Construction, maintain its regular procedure of assessing the suitability of development sites relative to topography, soil condition (including the presence of sink holes), drainage, utility and infrastructure connections, and vehicular and service access and program affinities as part of the initial pre-planning and siting studies for individual projects as those projects are brought into implementation. USF shall require the integration of natural topographic and other features in project designs in order to develop the campus in harmony with its natural environment.		x				reduce text
Policy 4.6.2	The University, through the Office of Facilities Planning and Construction, shall maintain existing soil data and topographic conditions, which shall be updated as additional data developed for future construction projects becomes available.		x				
Policy 4.6.3	As part of the design process for any programmed improvement (major project) and prior to approval and acceptance of the design by the University, USF shall require that geotechnical testing be conducted to determine relevant soil characteristics of the site and to ensure that the design reflects consideration of these conditions.		x				
Policy 4.6.4	The University shall ensure that appropriate methods of controlling soil erosion and sedimentation intended to minimize the destruction of soil resources and reduce impact on adjacent watersheds and storm management facilities shall be used throughout site development and shall ensure protection in final state following implementation. Such methods shall include, but not be limited to:		x				

	• Phasing and limiting the removal of vegetation		x				
	• Minimizing the amount of land area that is cleared		x				
	• Limiting the amount of time bare soil is exposed to rainfall		x				
	• Use of temporary ground cover on cleared areas if construction is not imminent		x				
	• Protection of drains, watersheds, and stormwater facilities during construction		x				
	• Special consideration given to maintaining vegetative cover on areas of high soil erosion potential (i.e., steep or long slopes, banks of streams, stormwater conveyances, etc.).		x				
	• For any land disturbance considered for Lot 32 or the land immediately north of Lot 32 including certain areas of the Moffitt Sub-lease , see Appendix E, Petroleum Discharge Resolution of Petroleum Discharge at the H. Lee Moffitt Cancer Center for restrictions: http://usfweb2.usf.edu/FacilitiesPlan/Campus%20Planning/Data_Collection_Analysis_Elements.html		x				
Objective 4.7	Ensure that the development of future land uses takes place in a way that is coordinated with the availability of adequate facilities and services to support the uses. This includes establishing appropriate location and adequate area set asides to accommodate utility requirements necessary for serving the estimated 10-year development, and implementing utility extensions in costeffective increments.						
Policy 4.7.1	Each development project representing a change in the amount of impervious surface will be measured to assess the effect it will have on stormwater detention capacity on an east and west basin approach.		x				
Policy 4.7.2	The University shall, preserve the existing physical plant/maintenance area north of Holly Drive for future physical plant operation expansion adequate to serve utility needs of future land use development.		x				
Policy 4.7.3	The University shall, through the Office of Facilities Planning and Construction, coordinate future land uses with the availability of facilities and services to ensure that utilities and infrastructure needed to support future development are available at adopted levels of service, consistent with the concurrency provisions contained in s. 1013.30, F.S. The Office of Facilities Planning and Construction shall review and evaluate all future construction projects to ensure that adequate provisions for infrastructure and utilities have been incorporated into the design by documenting:		x				
	• The provision and maintenance of necessary utility easements, corridors, and points of connection.		x				

	• The provision of adequate supply lines to accommodate future development and facility expansion.		x				
	• The provision of open space, safe convenient pedestrian and bicycle circulation, vehicular traffic flow, and parking at established levels of service consistent with the 10 year Master Plan.		x				
Objective 4.8	Ensure that measures can be undertaken to minimize or avoid off-campus constraints to campus development and to minimize or avoid conflicts of campus development within the context area. Accordingly, the density and scale of development on the campus properties should be compatible with the adjacent off-campus uses.						
Policy 4.8.1	Through inter-local agreements and memoranda of understanding, the University shall work with the host community to minimize both campus conflicts with the host community land uses within the context area and off-campus constraints that may limit future development on the campus.		x				
Policy 4.8.2	The University shall maintain and refine the existing procedural model for review and monitoring of growth and change in land use, and continue to use such model as a monitoring and coordinating measure with the host communities (see also Element 10, Intergovernmental Coordination).		x				
Policy 4.8.3	The University shall, through the Office of Facilities Planning and Construction, include in its project and site suitability assessments an evaluation of the relationship of the project to on-campus and off-campus development constraints, conflicts, or limits vis-à-vis multimodal circulation, infrastructure, open space, and stormwater management.						revisit
Policy 4.8.4	Where the acquisition of additional land is necessary for continued growth and expansion, the University shall coordinate with the appropriate local government on any required amendment to the local government's Comprehensive Plan.		x				
Policy 4.8.5	Proposed amendments to the adopted campus master plan which do not exceed the thresholds established in s.1013.30, F.S., and which have the effect of changing land use designations or classifications, or impacting off-campus facilities, services or resources, shall be submitted to the host local government for a courtesy review.		x				dup.

Policy 4.8.6	The University shall participate with the City of Tampa in the reciprocal review of plans and development proposals, consistent with provisions established in Element 10, Intergovernmental Coordination.		x				
Policy 4.8.7	The University shall ensure that uses at the edges of the campus are compatible with off-campus uses by:						
	Maintaining the use and density levels for the land use districts described and illustrated in this element to the degree that they define use patterns that are compatible with the offcampus medical, residential and commercial uses on the west side of Bruce B. Downs Boulevard and the north side of Fletcher Avenue.		x				
	Accommodating uses of compatible density and compatible building heights adjacent to the 50th Street residential units.		x				
	Providing park-like open space with views of the campus from Fowler Avenue, and landscaped street edges on all sides of the campus.		x				
Policy 4.8.8	The University shall coordinate through the Office of Facilities Planning and Construction with the City of Tampa, City of Temple Terrace, Hillsborough County and FDOT to construct pedestrian/bicycle linkages between USF and adjacent neighborhoods and edge conditions.		x				
Policy 4.8.9	Storage and non-vehicle trip generating support space shall be allowed at the Golf Course and Riverfront Park.		x				
Objective 4.9	Ensure that incompatible use relationships are eliminated or mitigated in the event that such incompatibilities exist or arise.						
Policy 4.9.1	The University shall, through the Office of Facilities Planning and Construction, undertake an annual review of the schedule of capital improvements to ensure that the capital improvements are consistent with the land use and development factors as described in this plan element and that such improvements are acknowledged in the periodic review set forth in Policy 4.9.2.		x				

Policy 4.9.2	The University's Campus Development Committee (CDC) and Academics and Campus Environment (ACE) Work Group shall periodically review the status of land use and facilities program development on the campus, including projects and grant award opportunities that are currently unforeseen. The Work Group shall identify trends or needs for change in use patterns, density, program affinities and relationships to open space, circulation and utility patterns that might affect the land use plan, and determine whether such circumstances should be corrected to maintain the integrity of the land use plan and constraining factors, or cause the plan to be altered or amended to reflect valid needs. The group will report its periodic findings to the president and recommend circumstances when and by which amendment of the adopted Campus Master Plan may be merited, or where projects should be limited or amended.		x				add ACECA
Policy 4.9.3	In the pursuit of Policy 4.9.2 above, the University shall identify any circumstance whereby future land acquisition may be necessary or appropriate to accommodate currently unforeseen development projects or strategies (such as remote parking, grant opportunities, utility corridors, etc.), and shall determine the appropriate timetable, funding, and development coordination measures associated with the prospective acquisition. Similar measures will be applied in the event of any circumstance calling for the sublease of University land to others.		X				
Policy 4.9.4	Campus Master Plan amendments that, alone or in conjunction with other amendments, exceed thresholds established in s. 1013.30(9), F.S., shall be reviewed and adopted under the provisions of s. 1013.30(6), F.S.		X				

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2015-2025 USF - Tampa Campus Master Plan Update
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Element 5: Transportation.

Goal 1: The Transit, Circulation, and Parking goal of the Tampa Campus Master Plan is to encourage options for sustainable transit and vehicular access to the campus that reduce reliance on single-occupant

Objectives & Policies		Status: Complete	Status: Ongoing	Status: Not Implemented	Current Condition	Delete?	Comments/Problems/Recommendations
Objective 5.1	Vehicular Traffic and Transit Sub-Element						
Policy 5.1.1	Reduce the impacts on-campus of future vehicular traffic generated by the 10-year master plan, especially at peak hours.		x				
Policy 5.1.1.1 (on campus)	The University shall continue to construct additional on-campus housing as marketing and financial opportunities are available. This housing will reduce both internal and external traffic generation, especially at peak hours.		x				
Policy 5.1.1.2 (off campus)	The University may pursue establishing an off-campus park/ride program and an off-campus shared use parking lots to meet future parking needs without constructing new parking facilities. Upon receipt of such funds, needed to support this initiative, the adopted campus master plan shall be amended as needed to reflect the operation of this program.						revisit
Policy 5.1.1.3 (off campus)	The University shall continue to provide, promote, and evaluate the use of distance learning, telecommuting, and compressed work week to reduce the need to travel to the University.		x				
Policy 5.1.1.4 (on campus)	The University shall evaluate and implement, as appropriate, opportunities of incorporating secure, covered bicycle parking and commuter centers within the proposed parking structures to encourage the use of transit, carpooling, and bicycling.						revisit
Policy 5.1.1.5	The University shall construct new parking facilities outside of the campus core and manage the parking permit system to encourage the use of periphery lots in conjunction with Bull Runner shuttle service to peripheral parking facilities, to decrease the volume of traffic on the interior and loop roads of the campus.						revisit

Policy 5.1.1.6	The University shall analyze and implement as appropriate, techniques such as computerized technology to govern parking spaces and better utilize existing and future resources. Such techniques may include revenue access control systems and transportable variable message signs to facilitate traffic flow.		x				
Policy 5.1.1.7	The University shall review and revise class scheduling policies to achieve greater balance in daily and weekly class schedules and reduce peak demands on the campus transportation systems associated with student arrival and dismissal.		x				"maintain"
Objective 5.1.2	Reduce the impacts off-campus of future traffic generated by the 10-year master plan.						
Policy 5.1.2.1 (off-campus)	The University shall continue to jointly plan with the host communities, City of Temple Terrace, Metropolitan Planning Organization (MPO), Hillsborough Area Regional Transit (HART), the Hillsborough County City/County Planning Commission (HCCCPC), Pasco County, Pinellas County, New North Transportation Alliance (NNTA), and the Center for Urban Transportation Research (CUTR) to develop programs and incentives to enhance transit service in the campus context area. A few of the examples are:		x				
	•Continuation of the U-pass system, giving privileges to University users of the local transit system.		x				
	•Additional on-campus housing and proximate off-campus housing to help further reduce the on-campus demands of traffic and parking.		x				
	•The University is coordinating with the MPO and HART to establish a Preliminary Plan for a rail stop to support the Tampa Rail Project.						revisit edit
Policy 5.1.2.2 (off-campus)	The University may explore opportunities and potentials for "partnering" with the private sector to construct residential housing in the context area around campus.			x			consider to housing
Policy 5.1.2.3 (off-campus)	Consistent with provisions contained in F.S. 1013.30, the University shall continue to mitigate impacts on the surrounding transportation network caused by development on-campus according to the current development agreement.						revisit
Policy 5.1.2.4 (on-campus)	The University shall coordinate on-campus traffic signalization and its connectivity to the surrounding transportation network with the City of Tampa.						revisit

Policy 5.1.2.5	The University shall continue to participate in the New North Transportation Alliance (NNTA), a public/private transportation demand management advocacy organization for the North Tampa area, as well as USF's CUTR.		x				
Policy 5.1.2.6	The University shall continue to work with the CUTR to identify and implement specific best practices for transportation planning.		x				
Objective 5.1.3	Provide a safe, efficient transportation system considering vehicle circulation, transit facilities, and the needs of motorized and non-motorized vehicle parking.						
Policy 5.1.3.1 (on-campus)	The University shall implement traffic circulation and transit improvements as described in this element and shown in the Master Plan Update figures as funding allows.		x				
Policy 5.1.3.2 (off campus)	The University shall evaluate opportunities to utilize off-campus or remote parking lots in proximity to the University, supported by convenient access to Bull Runner shuttles and non-vehicular transit options.						revisit
Policy 5.1.3.3 (on-campus)	The University shall continue to evaluate and upgrade, as appropriate, the Bull Runner shuttle service along the internal loop of the campus to supplement the regional and neighborhood circulators.		x				
Policy 5.1.3.4 (on-campus)	The University shall explore various routing and technology alternatives associated with implementing an internal tram, or other circulator conveyance system(s) to improve personal mobility in the campus core, connect the campus core with planned light rail station on Bruce B. Downs Boulevard, and/or connect major parking facilities with the academic core.						revisit
Policy 5.1.3.5 (on-campus)	The University shall continue to evaluate designs/improvements for intersections as idle times and accident reports warrant. If these designs prove to be economically feasible, practical, and promote transportation safety, the University shall amend the adopted campus master plan to incorporate these strategies into the overall transportation plan.		x				revisit diagrams from 2005
Policy 5.1.3.6	Following the Bull Runner system's use of biofuels as an example, the University shall consider providing additional alternative fuel vehicles for its campus fleet with biofuels and electric vehicles as potential options to reduce the University's carbon footprint and reduce reliance on non-renewable energy including fossil fuels.		x				revisit
Objective 5.1.4	Provide for convenient pedestrian and bicycle ways within the transportation program.						

Policy 5.1.5.3 (off-campus)	The University shall adhere to guidelines established for the Bull Runner shuttle stops. The University shall continue to explore opportunities for mass transit rail to the University area in cooperation with HART, TBARTA, MPO, CUTR, and the host communities. Opportunities for creating stations near the campus shall be encouraged with the implementation of mass transit rail.			x			revisit
Policy 5.1.5.4 (on-campus)	The University shall endeavor to provide covered and/or partially enclosed shelters and seating at on-campus transit stops, whenever possible.		x				
Policy 5.1.5.5	At Orientation, the University shall provide to all enrolling students information regarding the availability and scheduling of the HART bus system and Bull Runner transit system as well as other options such as the car-sharing, van-pooling, ride-matching, bike-loan, and Bicycle Club options.						partial implementation and revisit
Policy 5.1.5.6	The University shall continue to work with HART to provide the U-pass or other reduced public transit pass prices and van-pooling (offered by TBARTA) for students, faculty, and staff to promote the use of mass transit.		x				
Policy 5.1.5.7 (off-campus)	The University shall continue to implement transportation demand management (TDM) strategies designed to encourage the use of alternative modes of transportation and reduce the dependence on the single-occupant automobile as the primary mode of travel. The University shall consider:		x				
	• Expanding Bull Runner shuttle service to additional off-campus residential areas		x				
	• Improvement of pedestrian and non-vehicular facilities		x				
	• Increasing the number of students living on campus		x				
	• Location student oriented housing in close proximity to the campus						revisit
	•Academic scheduling modifications, including scheduling more classes during non-peak hours		x				
	•Parking pricing strategies designed to make other modes of travel more economical and to provide revenue for improved TDM services and facilities.		x				
	•Parking permit buyback program			x		x	
	•Provide qualified transportation fringe benefits, including pre-tax or employer-provided transit, vanpool, and/or bicycle benefits		x				
	•Traffic System Management approaches			x			revisit

Policy 5.1.4.1 (on-campus)	The University shall enhance the pedestrian corridors with provision of shade and weather protection, including shade trees, trellises, shade structures and/or arcades, seating, and implementation of design standards as established in USF Design and Construction Guidelines (http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html).		x				
Policy 5.1.4.2 (on-campus)	The University shall incorporate pedestrian safety features, including high-visibility crosswalks, warning signage, countdown pedestrian signals, and generous pedestrian landings, at new or improved mid-block, intersection, and roundabout crossings, as well as countdown pedestrian signals at all new or improved signalized intersections.		x				revisit
Policy 5.1.4.3 (on-campus)	The University shall provide convenient bike racks, or covered bicycle storage if possible, at all new and renovated facilities and endeavor to complete the installation of continuous bike lanes.		x				
Policy 5.1.4.4 (on-campus)	The University shall consider installing bike lanes on all new or improved roadways, assuming that the planned bike lanes will fully extend between intersections, rather than ending abruptly at unanticipated locations.		x				revisit
Objective 5.1.5	Enhance and encourage the utilization of alternative modes of transportation (including mass transit, bicycle and pedestrian modes) that reduce dependence on single-occupant vehicles as the primary mode of travel.						
Policy 5.1.5.1 (off-campus)	The University shall continue to evaluate opportunities to incorporate bus locations at high activity commuter nodes, and provide facilities to assist in attracting riders to the mass transit system.		x				
Policy 5.1.5.2 (on-campus)	The University shall continue to provide convenient routes for the Bull Runner shuttle service and explore opportunities for expanding on-campus transit with the addition of a tram, or similar people-mover system, supplement other alternative modes in the campus core, connect major parking facilities with the campus core, and which could eventually link the campus to future light rail in the University area.		x				revisit

Policy 5.1.5.3 (off-campus)	The University shall adhere to guidelines established for the Bull Runner shuttle stops. The University shall continue to explore opportunities for mass transit rail to the University area in cooperation with HART, TBARTA, MPO, CUTR, and the host communities. Opportunities for creating stations near the campus shall be encouraged with the implementation of mass transit rail.			x			revisit
Policy 5.1.5.4 (on-campus)	The University shall endeavor to provide covered and/or partially enclosed shelters and seating at on-campus transit stops, whenever possible.		x				
Policy 5.1.5.5	At Orientation, the University shall provide to all enrolling students information regarding the availability and scheduling of the HART bus system and Bull Runner transit system as well as other options such as the car-sharing, van-pooling, ride-matching, bike-loan, and Bicycle Club options.						partial implementation and revisit
Policy 5.1.5.6	The University shall continue to work with HART to provide the U-pass or other reduced public transit pass prices and van-pooling (offered by TBARTA) for students, faculty, and staff to promote the use of mass transit.		x				
Policy 5.1.5.7 (off-campus)	The University shall continue to implement transportation demand management (TDM) strategies designed to encourage the use of alternative modes of transportation and reduce the dependence on the single-occupant automobile as the primary mode of travel. The University shall consider:		x				
	• Expanding Bull Runner shuttle service to additional off-campus residential areas		x				
	• Improvement of pedestrian and non-vehicular facilities		x				
	• Increasing the number of students living on campus		x				
	• Location student oriented housing in close proximity to the campus						revisit
	•Academic scheduling modifications, including scheduling more classes during non-peak hours		x				
	•Parking pricing strategies designed to make other modes of travel more economical and to provide revenue for improved TDM services and facilities.		x				
	•Parking permit buyback program			x		x	
	•Provide qualified transportation fringe benefits, including pre-tax or employer-provided transit, vanpool, and/or bicycle benefits		x				
	•Traffic System Management approaches			x			revisit

	• Further promotion of ridematching services (i.e., HART, TBARTA Commuter Services, Zimride, etc.) and designating preferential parking locations for carpoolers		x				
	•Distance learning programs for students and telework or staggered work hours for faculty and staff.		x				
Policy 5.1.5.8 (off-campus)	The University shall coordinate with the Cities of Tampa and Temple Terrace and Hillsborough County to evaluate other options and strategies for reducing the dependence on the personal automobile.		x				
Policy 5.1.5.9 (on-campus)	The University shall continue to evaluate and implement enhanced mass transit opportunities with Hillsborough Area Regional Transit Authority (HART), the Metropolitan Planning Organization (MPO) and the host communities in accordance with procedures described in Element 10, Intergovernmental Coordination.		x				
Policy 5.1.5.10 (on-campus)	The University shall continue to provide, enhance and coordinate the Bull Runner shuttle routes with HART service. In particular, the University shall maintain and consider new providing transit connections to major regional transit facilities, such as the University Area Transit Center and planned light rail stations, and major destinations to reduce the demand		x				
Policy 5.1.5.11 (on-campus)	The University shall encourage increased pedestrian and bicycle mobility through the provision of shaded sidewalk/pathway connections and continuous on-road bike lanes to reduce vehicle trips and inter-modal conflicts. The University shall also provide secure bicycle storage and consider providing changing and shower facilities for bicycle commuters.		x				revisit
Objective 5.1.6	Ensure that transportation system improvements shall be coordinated and phased with the University's future land uses.						
Policy 5.1.6.1	The face of all future buildings shall be set back at least seventy-five (75) feet from the adjacent roadway center line as shown in Figure 4-8, Build to Framework, in Element 4, Future Land Use. This policy shall extend to new construction on sub-leased lands.						move to future landuse

Policy 5.1.6.2	The University shall adopt a transportation funding strategy to ensure adequate revenue to finance parking improvements and other transportation alternatives consistent with the Master Plan. This may include increased parking rates, new parking revenue (i.e. daily or metered parking), and/or a transportation access fee.		x				"increase fee"
Policy 5.1.6.3	The University shall plan on performing identified transportation improvements in conjunction with future projects. The timing and phasing requirements and priorities for these improvements are established in Element 11, Capital Improvements, and as opportunities arise through future development projects that are currently unforeseen.						revisit
Objective 5.1.7	Coordinate required transportation improvements within the context area with the host communities.						
Policy 5.1.7.1 (off-campus)	The University shall continue regular coordination with the host and affected local governments and the FDOT to ensure that transportation facility improvements are available when needed to support the growth of the University. The University shall pursue memoranda of understanding or interlocal agreements necessary to ensure that transportation facilities are available to meet the future needs of the University.		x				
Objective 5.1.8	Coordinate resolution of issues associated with projected impacts in level of service with the host community.						
Policy 5.1.8.1 (on-campus)	The University shall monitor all on-campus intersections along the loop roads and campus access points onto Fletcher Avenue, Bruce B. Downs Boulevard, Fowler Avenue and 50th Street. On-campus intersections and campus access points shall be evaluated concurrent with future projects and be consistent with the recommendations presented in this Element 5, Transportation.						revisit
Policy 5.1.8.2	Level-of-Service (LOS) E conditions will be tolerated on the main campus loop roadways to minimize impacts on pedestrian safety associated with capacity improvements intended to reduce vehicle delays.						revisit
Policy 5.1.8.3 (off-campus)	The University shall continue to coordinate with the City, County, MPO and FDOT to assure planned public roadway projects along the periphery of the campus are scheduled and funded and include lighting, transit, pedestrian, and bicycle improvements.		x				

Objective 5.1.9	Provide emergency travel routes and a building identification system to all new and renovated campus buildings.						
Policy 5.1.9.1	All new and renovated buildings shall be designed in accordance with NFPA1. The University shall remediate access and building justification as soon as practical. Following the street addressing system in place, future lanes and streets shall be named after native trees. The designation “USF” shall be added to all street names. Numbering shall match the City of Tampa’s grid.	x					
Objective 5.2	Parking Sub-Element						
Objective 5.2.1	Provide adequate parking capacity for the University’s needs while reclaiming existing surface parking sites in the campus core for programmatic uses or open space.						
Policy 5.2.1.1	The University shall program new multi-level parking facilities as needed, taking into consideration multi-modal use, for during the planning 10 year planning time frame as shown in Figures 5-6 and 5-7. The recommended locations for new parking structures are south of the Library (Zone 1), adjacent to the Sun Dome (Zone 3), and in the health sciences (Zone 6). Alternative locations - health sciences area south of Holly (Zone 6) and north of Cypress Hall south of Fletcher Avenue (Zone 4) are identified for consideration if specific conditions restrict development of recommended sites or parking demand conditions indicate these as earlier priority development. (All of these sites are included in long term recommendations.) The schedule for parking facility completion will be based on continued review of campus parking demands, development, and funding.		x				revisit
Policy 5.2.1.2	The University shall strongly encourage the use of periphery parking areas for students and staff through permit pricing incentives. On campus shuttle service shall be routed to support this parking strategy.		x				
Policy 5.2.1.3	The University shall evaluate on-street parking and bicycle lanes on some campus roadways, as recommended in Figure 5-8, to affordably maintain or expand parking capacity on the campus as needed.						revisit
Policy 5.2.1.4	The University shall review existing parking facilities for opportunities to expand capacity through lower-cost measures such as re-striping or surface lot expansion.						revisit

Policy 5.2.1.5	The University shall coordinate with host communities regarding opportunities to provide off-campus Park and Ride parking for University use, if such parking facilities are deemed beneficial to overall campus parking operations.						revisit, link to 5.1.3.2
Objective 5.2.2	Provide methods to reduce the impacts and demands of future on-campus parking.						
Policy 5.2.2.1	The University shall continue to monitor parking needs as development progresses and evaluate and implement, as appropriate, mitigation techniques. These programs may include the following:						revisit, link to 5.1.3.2
	•Explore the possibility of establishing remote Park and Ride parking lots off campus and shuttle systems to these lots						revisit, link to 5.1.3.2
	•Encourage the utilization of peripheral parking facilities and mass transit with the establishment of commuter centers, shuttle service, and utilization of bicycles						revisit
	•Consider parking lot and/or permit designation modifications to discourage visitors, faculty, and students from moving vehicles between different parking locations on campus		x				
	•Evaluate academic classroom schedules encouraging more classes to be scheduled in off-peak hours, thus reducing parking demands by increasing utilization throughout the day – "reusing" the same parking space		x				revisit, link to previous 5.1.5.7
	•Provide preferential parking locations for those who carpool and vanpool regularly		x				
	•Evaluate preferred parking for alternative fuel vehicles and consider electric vehicle charging facilities during design of new or improved parking facilities		x				
	•Consider restrictions in the use and parking of personal vehicles on campus by freshmen.						revist
Policy 5.2.2.2	The University shall continue to evaluate and refine the parking permit fee structures to adequately incentivize parking in more remote parking lots, while maximizing revenue.		x				
Objective 5.2.3	Locate program and design on-campus parking facilities to be accessible to the various land uses and circulation systems while minimizing pedestrian vehicle conflicts.						

Policy 5.2.3.1	The University shall adhere to its design guidelines that ensure proper signage and traffic circulation to the parking structures and lots to avoid potential confusion and conflicts with pedestrians. The University shall, during the design of parking lots and garages, address concerns regarding landscaping, lighting, signage, security and pedestrian circulation issues.		x				
Policy 5.2.3.2	The University shall implement parking improvements as described in this element and on Figures 5-6 and 5-7. The timing and phasing requirements and priorities for these improvements are established in Element 11, Capital Improvements.		x				
Objective 5.3	Pedestrian and Non-Motorized Circulation Sub-Element. Goal: The Pedestrian and Non-Motorized Circulation goal of the Tampa Campus Master Plan is to shift the primary transportation focus within the campus from vehicles to pedestrians, bicycles, and transit modes through improvement and implementation of functional and inviting pedestrian, bicycle, and transit facilities in order to reduce personal vehicular traffic, improve safety, and support sustainable University operations.						
Objective 5.3.1	Provide convenient, safe and direct on-campus pedestrian and bicycle way connections, as shown in Figures 5-8 and-5-9, to off-campus pedestrian and bicycle ways where the campus interfaces with the public roadway network and neighboring communities.						
Policy 5.3.1.1	The University shall coordinate with the City of Tampa, City of Temple Terrace and Hillsborough County in the systematic implementation of on-campus pedestrian and bicycle facilities to ensure continuity of such facilities within the larger regional system of pedestrian/bicycle facilities in accordance with procedures described in Element 10, Intergovernmental Coordination.		x				

Policy 5.3.1.2	The University shall work with the host community through coordinated efforts of University Police and local police departments, community action groups, and planning entities to improve the safety of off-campus routes connecting to the campus in accordance with procedures established in Element 10, Intergovernmental Coordination. Specific coordination shall be performed with Hillsborough County and FDOT regarding the planned pedestrian-oriented roadway safety improvement project on Fletcher Avenue, between Nebraska Avenue and Bruce B. Downs Boulevard.		x				revise
Policy 5.3.1.3	Coordinate with Hillsborough County to provide and maintain appropriate street lighting on roadways, surrounding the campus and along major pedestrian routes to/from campus.		x				
Policy 5.3.1.4	Coordinate with Center for Urban Transportation Research (CUTR), New North Transportation Alliance, Hillsborough County, FDOT and other transportation planners and providers to implement educational programs for students, employees, and surrounding community members regarding transportation and public safety in proximity to USF.		x				
Objective 5.3.2	Coordinate locations for future pedestrian and non-vehicular circulation facilities to be developed on and off the campus with recommendations made by the University Police Department, Facilities Planning and Construction, and Parking and Transportation Services.						
Policy 5.3.2.1	Record may be made of actual observed pedestrian flow. Such campus wide observations should be scheduled biannually to assess any changes in pedestrian and non-vehicular movement patterns which may merit changes in prioritizing implementation of new pedestrian and non-vehicular facilities. Additional observations should be scheduled during periods of new campus development which may affect patterns of pedestrian and non-vehicular movement.		x				
Objective 5.3.3	Coordinate locations for additional lighting and improvements in lighting delivery with recommendations made by the University Police Department and Student Night-Walks.						

Policy 5.3.3.1	The University shall consult the University Police Department in determining locations for additional lighting along pedestrian and non-vehicular circulation routes, recognizing that the most effective lighting safety response may be to light the edges of the open space rather than the actual walk. University Police acting as Crime Prevention Through Environmental Design (CPTED) consultant to Facilities Planning and Construction shall provide input to identify areas in which they feel a risk factor exists. Their input will be based on on-site observation and crime data.		x				
Policy 5.3.3.2	The University shall continue the campus-wide blue light emergency telephone plan to complement existing University Police escort and "Safe Team" services.		x				
Objective 5.3.4	Provide pedestrian and non-motorized circulation facilities to meet both the aesthetic and functional needs of the users and to encourage increased pedestrian and bicycle movement on campus.						
Policy 5.3.4.1	The University shall give priority to mitigation of existing pedestrian/vehicle conflicts on campus through the following actions:		x				
	•Consider time-based vehicular access restrictions from Leroy Collins Boulevard to the Collins Boulevard Garage to reduce vehicle-pedestrian conflicts at the intersection of Leroy Collins and Sessums Mall.						revisit
	•Prohibit vehicular access to Holly Drive, for most of the section between Palm Drive and Maple Drive, to eliminate vehicle-pedestrian conflicts with residents of the Andros/Argos housing area and strengthen the connection between Andros area housing and the campus south of Holly.						revisit
	•Review pedestrian safety treatment options for the relocated Maple Drive/Willow Drive intersection, and other intersections experiencing pedestrian collisions, including crosswalk treatment upgrades (i.e., high-visibility materials, raised crosswalks, etc.), relocating crosswalks to align with pedestrian desire lines, median refuges, curb extensions, pedestrian signal improvements, signal cycle length reductions, warning signage, and speed/safety enforcement.						revisit

	• Largely relocate central campus parking toward the edges of the campus and construct new pedestrian and multi-use pathways providing logical and continuous connections between uses along the campus Greenway.		x				
	•Converge pathway alignments within the Greenway at intersections with campus collector roadways and install high-visibility crossings and traffic-calming treatments at mid-block crossing locations.		x				revisit
	• Consider using Sharrow markings on roadway sections that do not yet have dedicated bikelanes. Sharrows assist bicyclists with lateral positioning in lanes that are too narrow for a motor vehicle and a bicycle to travel side by side within the same traffic lane; alert road users of the lateral location bicyclists are likely to occupy within the traveled way; encourage safe passing of bicyclists by motorists; and reduce the incidence of wrong-way bicycling. Sharrows are typically (but not exclusively) utilized on roads that are popular with bicyclists but lack right of way for conventional bike lanes. http://bike.emory.edu/2010/08/18/sharrows-coming-soonto-clifton-road						revisit
	•Continue to support the development and funding of the “Open Trip Planner” developed by CUTR. This is a web-based tool for creating point to point campus pedestrian route planner which will help students, especially physically challenged, plan the best route to navigate the campus.		x				
Policy 5.3.4.2	The University shall consider implementation of convenient and well-maintained bicycle sharing services at key locations throughout the USF-Tampa campus, such as residential quads and major parking facilities, to facilitate bicycle mode choice and reduce dependence on automobiles within the campus. These facilities may include bicycle and commuter facilities in the programming for all parking garages. Commuter facilities shall include locked covered storage and lockers at minimum, and may include bicycle rental facilities as well.		x				revisit
Policy 5.3.4.3	The University shall continue to work with partners to review bicycle parking quality and availability at all on-campus facilities and install bicycle parking equipment in beneficial locations.		x				modify

Policy 5.3.4.4	The University shall encourage utilization of pedestrian and non-motorized facilities and improve the safety of persons using the facilities through implementation of pathway and roadway improvements, including increasing shade along walks and pathways and converting some four-lane roadways to two-lane roadways with bike lanes and on-street parking, as identified in this element. The timing and phasing requirements and priorities for these improvements are included in Element 11, Capital Improvements under Infrastructure.		x				revisit
Policy 5.3.4.5	The University shall encourage "24 hour" activity on campus by concentrating and reinforcing programmatic activity and by expanding the hours of intense activity. (See Element 6, Housing.)						move to element 6 housing
Objective 5.3.5	Establish a series of strong pedestrian corridors to link campus precincts, as shown in Figure 5-9.						
Policy 5.3.5.1	The University shall continue the maintenance and development of primary east-west and north-south pedestrian corridors as follows:						
	•Sessums Pedestrian Mall between athletics/recreation and business/education/social science precincts on the east and the engineering/natural sciences, housing precincts on the west;		x				
	• Interdisciplinary Pedestrian Mall extending from the north edge of the Central Lawn northwest to the interdisciplinary /proposed arts precinct and west to Moffitt/Health extending to Bruce B. Downs Boulevard		x				
	•Proposed Holly Pedestrian Mall extending between Maple Drive on the east and Palm Drive on the west						revisit
	•Proposed North-South Pedestrian corridor extending from redeveloped Andros housing area south, crossing the Greenway to the business/education/social science precinct.		x				
Policy 5.3.5.2	The University shall establish strong diagonal northwest to southeast and northeast to southwest pedestrian and multi use (pedestrian/bicycle) corridors as follows:						
	•Cross-campus Greenway Corridor extending from the northeast Greek Village and Fletcher Avenue southwest to the Botanical Garden continuing to Pine Drive and Bruce B. Downs, and including a proposed diagonal crossing of the Central Quadrangle.		x				

	•Cross-campus southeast to northwest corridor extending from Alumni/Bull Run Drive and Fowler Avenue, through the academic precinct, to proposed connection to Administration crossing Central Quad and extending northwest along proposed Center for Advanced Study of Visual Arts (CASVA), and continuing to the redeveloped Health Sciences via Holly Drive walks and bicycle lanes.						revise

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Element 6: Housing

Goal 1: The Housing goal of the Tampa Campus Master Plan is to encourage the availability of diverse, safe, affordable housing opportunities for students on and in the vicinity of the campus in support of the educational success, personal development, and social experience of all University students.

Objectives & Policies		Status: Complete	Status: Ongoing	Status: Not Implemented	Current Condition	Delete?	Comments/Problems/Recommendations
Objective 6.1	Provide approximately 2,000 net new undergraduate and graduate student beds in on-campus residence facilities over the next 10 years. In addition, replace 1,036 beds lost to proposed demolition and redevelopment of Andros Complex site. Endeavor to achieve and maintain The Carnegie Foundation for Advancement of Teaching classification as a “L4/R/Large Four Year, Primarily Residential” school as stated in the 2007-2012 USF Tampa Strategic Plan.						revise number of beds
Policy 6.1.1	The University shall locate such new housing as is determined to be financially feasible in Land Use Districts 4 and 5 (Student Housing East and West) as delineated in Figure 4-4, 10-Year Campus Land Use Districts, Element 4, Future Land Use.		x				

Policy 6.1.2	Building locations indicated in Figure 4-1. 10-Year Campus Master Plan Concept may be exchanged for other building locations, depicted in Figure 4-2, Long Range Campus Master Plan Concept, if the alternative location is deemed preferable due to unforeseen or changed conditions related to program, cost, or other justifiable reason, and is within the same Future Land Use District. Any such location changes shall be effected by approval of the USF Board of Trustees without a Campus Master Plan amendment, provided that the project supports the primary land use function and is consistent with Figure 4-4, 10 Year Campus Land Use Districts, and Tables 4.1 and 4-3 included in Element 4, Future Land Use, as well as with the Campus Development Agreement with the City of Tampa.		x				
Policy 6.1.3	The University shall, through this 2010 Master Plan Update and USF Design and Construction Guidelines (http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html), specify that new construction or renovation of housing be designed to reinforce and enhance the spatial order and coherence of the campus, thus lending to a sense of continuity and unity in the development of the campus. Additionally, housing shall be located – and entries, views, public spaces oriented – in a way that engages and activates adjacent spaces such as the Greenway, framed residential quadrangles and courtyards, and circulation routes such as Sessums Mall to encourage more vibrant community engagement in these spaces.		x				
Objective 6.2	Provide the land area and infrastructure to accommodate development of a student organization community facility in support of student organization housing over the next 10 years.						

Policy 6.2.1	During the next 10 years, the University shall seek to enable development of a student organization residential community facility available to student organizations on a lease basis, in the Fletcher/Maple area of the campus (Land Use District #4 as delineated in Figure 4-4, 10-Year Campus Land Use Districts, Element 4, Future Land Use). Such construction will be subject to USF Design and Construction Guidelines (http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html.			x			
Objective. 6.3	Continue to improve the environment and coherence of the existing Andros and Magnolia residential areas by continued infill of new residence facilities forming residential courtyards; by taking advantage of existing and planned open space amenities such as the Greenway edge, by minimizing vehicular circulation and surface parking obstructions in the housing environment, and by improvements to existing housing facilities.						
Policy 6.3.1	The University shall study the feasibility and proforma for providing an additional 2,000 new student beds with the first 1,500 beds proposed for construction in the five year planning time frame. The housing shall be distributed in the area north of Holly and between North Palm and Maple Drive, south of Beta Hall on the north edge of the Greenway and west of Maple, and east of Laurel, north of the existing Juniper-Poplar Hall, adjacent to the south edge of the Greenway as illustrated in Figure 6-1, 10 Year Housing.		x				

Policy 6.3.2	The University shall vacate the section of Holly Drive located between Myrtle Drive (east of Crescent Garage) and the existing small parking area just west of Maple Hall 'B' and reconfigure this roadway cross section as a pedestrian/bicycle corridor to strengthen connection between housing area north of Holly and housing to the south as well as the campus at large, improve safety, and establish greater open space amenity value for existing housing along Holly Drive. (See also Element 5, Transportation.)		x				workgroup supports concept

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Element 7: General Infrastructure and Utilities

Goal 1: The Stormwater Management goal for the Tampa Campus Master Plan is to provide an adequate stormwater management system that accommodates the future University stormwater needs.

Objectives & Policies		Status			Current Condition	Delete?	Comments/Problems/Recommendations
		Complete	Ongoing	Not Implem			
Objective 7.1	Sub Element: Stormwater Management						
Policy 7.1.1	Provide a sufficient stormwater management system in a design that is consistent and enhances the overall Master Plan scheme, and strive to reduce stormwater outfall volumes.		X				
Policy 7.1.1.1	The University shall identify the stormwater detention and greenway systems as a "no build" zone, except for recreation support facilities.		X				
Policy 7.1.1.2	Stormwater facility improvements shall be constructed as identified on Figure 7.1-1.						Revisit Figure 7.1-1
Policy 7.1.1.3	The University shall coordinate through its capital improvement projects and building program to ensure that stormwater storage and conveyance pipes are located and constructed to avoid conflicts with future building programs.		X				
Policy 7.1.1.4	The University, prior to the design and construction of any ponds within the stormwater system, shall thoroughly investigate issues including geotechnical information, regulations, and existing utilities.		X				
Policy 7.1.1.5	The University shall maintain a capacity tracking system to ensure capacity is available for the impacts of new construction.		X				
Policy 7.1.1.6	Facing of building should be setback from roadway center line no less than seventyfive feet. See Figure 4-8. The policy extends to all new construction on sub-leased lands.					X	This item is missed placed.

Policy 7.1.2	Recognizing that natural drainage flows east and west from the central ridge line, appropriate considerations will be given for maintaining and protecting the natural drainage patterns and hydrological conditions.		X				
Policy 7.1.2.1	The University shall enhance the stormwater facilities and greenway system with the following appropriate design features:						
	• Gradual and varied side slopes		X				
	• Natural aquatic plant material						Revised statement to include: as appropriate for the stormwater system utilized.
	• Walkways/boardwalks		X				reconsider boardwalks due to increased maintenance
	• Seasonal hardwoods and native-understory plant materials		X				
	• Properly designed "feature" ponds that include retention liners and sufficient water flows and aeration to maintain a healthy environment and habitat for wildlife.		X				Revise "flows" to " volumes".
Policy 7.1.2.2	Recognizing that increasing the tree canopy reduces the amount of runoff entering stormwater ponds, the University shall continue to implement an active tree planting program, making it a priority to plant areas adjacent to roadways, surface parking lots, and other paved surface areas.		X				You may need to add a statement to say that there is a need to train the grounds people for an arborist qualification or hire an arborist (Ghebremichael, Kebreab)
Objective 7.1.3	Prevent any further degradation and improve the quality of receiving waters.						
Policy 7.1.3.1	The University shall implement an ongoing, regularly scheduled stormwater facility maintenance program to ensure adequate water quality and design capacity of the facilities.		X				
Policy 7.1.3.2	The University shall coordinate, as appropriate, with the host -communities regarding the National Pollutant Discharge Elimination System (NPDES) program.					X	We have our own NPDES - MS4 Program. Delete or readdress as a current condition
Policy 7.1.3.3	USF shall continue to construct on-site stormwater treatment systems that remove suspended solids and nutrients per Southwest Florida Water Management District standards.		X				

Policy 7.1.3.4	The University shall mitigate University-generated stormwater and minimize stormwater-borne pollutants through the implementation of a system of Best Management Practices (BMPs), which includes, but is not limited to:						
	• Incorporating stormwater management retention and detention features into the design of parks, trails, commons, and open spaces, where such features do not detract from the recreational or aesthetic value of a site.		X				
	• Use of slow release fertilizers and/or carefully managed fertilizer applications timed to ensure maximum root uptake and minimal surface water runoff or leaching to groundwater.		X				verify
	• Educating maintenance personnel about the need to maintain motor vehicles to prevent the accumulation of grease, oil and other fluids on impervious surfaces, where they might be conveyed to surface and ground waters by runoff, and the need to regularly collect and dispose of yard debris.		X	X			Ongoing for educating maintenance personel about motor vehicle maintenance but not for collecting and removing yard debris. An upcoming effort to change this is underway. PPD is acquiring a yard vac machine to recycle mulch that is washed out of place by rains.
	• Avoiding the widespread application of broad spectrum pesticides by involving only purposeful and minimal application of pesticides, aimed at identified target species.		X				
	• Coordinating pesticide application with irrigation practices to reduce runoff and leaching into groundwater.		X				
	• Use of turf blocks and other pervious surface treatments to minimize impervious surface area and reduce the flow of runoff pollutants.		X				
	• Incorporating features into the design of fertilizer and pesticide storage, mixing and loading areas that are designed to prevent or minimize spillage.		X				Revisit with PPD.

	• Pursue licensing for grounds superintendents and staff to permit handling and administering restricted pesticides and to ensure that fertilizers will be selected and applied to minimize surface water runoff and leaching to ground water.		X				Revisit with PPD. Revise to reflect liscenced outside contractors
Policy 7.1.3.5	It shall be the policy of the University that no stormwater discharges may cause or contribute to a violation of water quality standards in waters of the State. Post-development rates of discharge shall not exceed pre-development rates.		X				Revisit: Need to compare to the University's MS4 Stormwater Policy. If this stays, should separate the water quality restriction from the post development rate restriction.
Objective 7.1.4	Coordinate and phase the increased stormwater facility capacity to meet the future needs of the University.						Revisit : Needs to be combined with 7.1.1.5
Policy 7.1.4.1	The University shall ensure that the detailed Stormwater Management Sub-Element will comply with the host communities and SWFWMD level of service regulations for quantity and quality. In addition, the University shall adopt a level of service standard for stormwater quality and quantity as established in Chapters 40D-4, 40D-40 and 40D-400 FAC.		X				This is redundant to Policy 7.1.3.3. If stays, the reference to host communities can be deleted as that does not apply any more with the changes made to the Lake Behnke control structure.
Policy 7.1.4.2	Stormwater management facilities shall comply with the design criteria established in the USF Design and Construction Guidelines and shall be in place and operational, at established levels of service, prior to the construction of any new University improvement.		X				Revisit: This overlaps 7.1.4 and 7.1.1.5. Could be combined.

Policy 7.1.4.3	The University shall devise and implement ongoing monitoring and evaluation activities to survey, document and assess the existing and future system needs, as a result of proposed land redevelopment, transportation system improvements, reconfiguration of existing drainage conveyances, and improvements within the drainage basins. These engineering study efforts shall address the data and analysis requirements contained in Rules 6C-21.207(1) and (2) F.A.C., and shall also:						reword
	• Establish priorities for replacement, correcting stormwater management facility deficiencies, and providing for future facility needs		X				
	• Establish the timing and phasing requirements and identify the projected funding sources for stormwater management facility improvements to meet future USF needs.		X				Revisit: Covered in 7.1.4 and 7.1.1.5.
	• Classify existing utility corridors as no build zones. In the event the utility cannot be avoided, the Director of Facilities shall be contacted.					X	Revisit: Covered in 7.1.1.1.
	• Following the completion of the engineering study described in Policy 7.1.3.3, the University shall prioritize and correct identified stormwater system deficiencies. The adopted campus master plan will be amended as needed to reflect the survey results and priorities assigned to them.		X				Revisit: 7.1.3.3 does not describe study.
Policy 7.1.4.4	The University shall ensure proper coordination between the construction of any future retention ponds and underground stormwater system with the removal of existing parking areas and infrastructure.		X			X	
Policy 7.1.4.5	The University shall coordinate planning and design efforts through its capital improvement projects and building program to ensure that existing stormwater pipes that are to be relocated or replaced shall be consistent with the Stormwater Management Sub-Element.		X				verify covered elsewhere

Policy 7.1.4.6	The University shall, by utilizing its capital improvement program, continue to identify appropriate phasing programs for the construction of the stormwater management facilities in a logical and coordinated manner to meet the University's future needs as described in Element 11, Capital Improvements.					X	Context covered elsewhere. If stays, reference to Element 11 is wrong.
Policy 7.1.4.7	The USF Office of Facilities Planning and Construction shall review all proposed construction and development on campus to ensure that any proposed increase in campus impervious surfaces shall be implemented only upon a finding that existing facility capacity is already on-line to accommodate the increased impacts, or that additional capacity will be funded and on-line at the time of planned construction.					X	Is a restatement of 7.1.4.6 but can be deleted as its context is covered elsewhere.
Policy 7.1.4.8	The University shall annually review future construction programs and priorities for deficiency remediation as part of the capital improvements requirements and procedures to ensure capacity and capital improvements required to meet future University needs are provided when required, based on needs identified in other master plan elements.					X	Not needed. Context covered elsewhere.
Sub Element 7.2	Potable Water Sub-Element						
Goal	The Potable Water goal for the Tampa campus plan is to provide an adequate potable water system that accommodates the future University potable water needs.						Add potable water "and fire fighting " needs.
Objective 7.2.1	Provide at a minimum a level of service of 0.12 GPM per 1,000 gross square feet of building area and provide distribution and building plumbing systems to maintain a building operating pressure of 40 psi minimum.		X				verify values
Policy 7.2.1.1	The University shall establish and adopt the following level of service standards for potable water and fire flow:						
	• Provide a minimum a level of service of 0.12 GPM per 1,000 gross square feet of building area for general office / classroom space.		X				verify values

	Provide adequate fire protection with a goal of 3,000 GPM for four hours.		X				verify values
	• Maintain an operating pressure of a minimum of 40 psi throughout the building systems.		X				verify values
	• System identified in Figure 7.2-.1 is designed to achieve and maintain these standards.						Revisit to make sure of correct Figure.
Policy 7.2.1.2	Proposed increases in consumptive uses, whether residential or non-residential, shall be approved only upon a finding that existing potable water treatment and distribution facility capacity is already on-line to accommodate the increased need, or that additional capacity will be funded and on-line when needed.		X				
Objective 7.2.2	Provide adequate fire protection with a goal of 3,000 GPM for four hours.						
Policy 7.2.2.1	The University shall provide sufficient fire protection with strategically placed fire hydrants during the construction of new facilities.		X				
Policy 7.2.2.2	The University, in order to provide sufficient fire protection, shall install fire hydrants only on six-inch or larger water lines.		X				
Policy 7.2.2.3	The University shall provide sufficient fire protection by maintaining sufficient water levels in the water tower for 4 hour fire flow during maximum day demand.		X				
Policy 7.2.2.4	The University shall conduct on-site fire flow tests at least annually to verify adequacy of fire protection or identify deficiencies. The tests shall be conducted in accordance with the methodology described in the American Water Works Association Manual Number 31, entitled "Distribution System Requirements for Fire Protection" and NFPA 25. The results of such tests shall be provided to the City of Tampa Fire Department.		X	X			Revisit: Need to verify with EHS as to whether fire flow data has been shared with Fire dept.
Objective 7.2.3	The University shall continue to implement and expand its water conservation program.						Greywater is mentioned but I would strengthen that by stating it similar as for rainwater harvesting for new buildings. If we want to reuse greywater, we need to plan dual piping in new buildings. (Ghebremichael, Kebreab)

Policy 7.2.3.1	The University shall implement and promote its water conservation program as follows:						
	• The use of xeric landscaping materials, technology, and maintenance practices, including the maintenance or installation of selected native and environmentally fitting vegetative species, low irrigation and compact hydrazone concepts, shall be required for all new and renovated building, ancillary, and site facility construction.						Revisit: Need to verify with PPD if policy is being followed.
	• Maintain and install sub-metering on existing and new facilities to be able to monitor accurately the amount of water being utilized in the various irrigation and building facilities.		X				
	• The University shall create an awareness program of water usage utilizing the information above.			X			
	• Establish computerized, rain-sensitive system controls for all irrigation systems.			X			Athletics was proposing to install such, need to verify. PPD considering whether to use Athletics' system or implement their own.
	• Explore opportunities to coordinate with the host communities in providing a reclaimed water irrigation system, if system is extended to the University area.		X				not currently available from host community
	• Explore use of collected stormwater or other gray water sources for landscape irrigation purposes.		X				
	• Require air conditioning condensate collection for all new buildings. Prioritization shall be established for retrofitting existing facilities to collect condensate, on the basis of availability and proximity to a source requiring reuse water.		X				Not implemented as standard for new construction, prioritization of retrofitting existing buildings not implemented. The Patel building incorporated a cistern for the collection of roof runoff and condensate for the purpose of toilet flushing. Revise to use the term "consider"
	• Require use of efficient low water volume plumbing fixtures in new and renovated University buildings.		X				
	• Conduct annual water audits in addition to other leak detection programs.			X			Not all water uses metered. Need to complete metering and backflow prevention program.
Objective 7.2.4	Cooperate with the City of Tampa Water Department and other appropriate State and Federal agencies to ensure safe and sufficient water supply at a cost effective rate.						

Policy 7.2.4.1	The University shall implement a replacement program of smaller diameter existing potable water pipes or lines with a minimum of eight inch diameter distribution pipes at building service interface provided minimum velocities are maintained.			X			Revisit the basis of this. Not necessarily an absolute for a policy statement.
Policy 7.2.4.2	The University shall, through its capital improvements program, ensure that potable water service capacity is available to meet future potable water facility service needs as prescribed in Element 11, Capital Improvements.		X				Verify Element No.
Policy 7.2.4.3	The University shall maintain, as appropriate, a “technical design standards” manual to ensure the compatibility of future potable lines for ease of on-going maintenance.		X				Design and Construction Guidelines manual satisfies this.
Policy 7.2.4.4	The University shall coordinate the provisions of off-campus potable water facilities required to meet future University needs with the host community or appropriate service provider as described in Element 10, Intergovernmental Coordination. The University shall follow established procedures for coordinating with appropriate City of Tampa officials relative to University water needs. USF shall pursue any interlocal agreements or memoranda of understanding necessary to ensure that potable water will be supplied to the campus to meet the future needs of the University, for those portions of the campus to be served by outside sources.		X				
Objective 7.2.5	Correct any existing potable water facility deficiencies and maximize its level of service where feasible.						You should probably mention somehow that the water quality should meet the latest USEPA water quality standards (Ghebremichael, Kebreab)
Policy 7.2.5.1	The University shall maintain "loops" within the water system and avoid dead-end distribution lines. New water mains shall be designed to be in close proximity to existing utilities, following established utility corridors where possible, thereby minimizing impact to areas of open space.		X				

Policy 7.2.5.2	The University shall establish an on-going maintenance program to replace deteriorated or undersized pipes. Existing utility corridors shall be classified as no build zones.						The first sentence is obvious ("The university shall establish an ongoing maintenance program…). I am not sure why we need to state this as a policy. "Existing utility corridors shall be classified as no build zone" is fine. (Ghebremichael, Kebreab) Revisit to rewrite. The policy has exclusive terms. Replace deteriorated or undersized pipes is Capital Renewal not maintenance. (D. Wagner)
Policy 7.2.5.3	The University shall, through its capital improvements program, ensure that when a project requires the relocation of potable water utilities, that those utilities be apropriately upgraded and replaced as necessary to provide service to the capital improvements programmed in Element 11, Capital Improvements.		X				Verify Element No.
Policy 7.2.5.4	The University shall investigate and ascertain presence of hazardous material when any existing lines (installed prior to 1980) are to be relocated, replaced or removed have the potential to contain asbestos, also known as "transite."		X				
Policy 7.2.5.5	Annually review future construction programs and priorities for deficiency remediation as part of the capital improvements requirements and procedures to ensure that potable water facility improvements required to meet future University needs are in place and operational, at the adopted levels of service, prior to occupancy of any new University building.					X	Context addressed elsewhere.
Policy 7.2.5.6	Implement and maintain a hydraulic model of the potable water system on campus. The model should identify areas of low pressure. Alternatives should be developed to increase pressure to the affected areas. Areas for potential water service expansion should also be considered.			X			Model developed. Needs testing and updating. Needs to be expanded to include NW service area once that area is taken off the City system and placed on the University's water supply system.

Objective 7.2.6	Protect and conserve potable water sources and facilities.						You may need to mention the following with respect to groundwater: Sampling and monitoring should be in accordance with xxxx (Local, State or Federal regulations). You may also add statement like " Assess the potential for artificial recharge and encourage to do it" (Ghebremichael, Kebreab)
Policy 7.2.6.1	Protect and conserve potable water sources and facilities.		X				
Policy 7.2.6.2	The University shall identify the potable water well fields as "no-build" zones, except for recreation facilities.		X				
Policy 7.2.6.3	The University shall seek additional well sources to ensure adequate un-interruptible supply. Additional wells must be permitted through Florida Department of Environmental Protection.		X				Revisit: Need to correct policy. Additional wells are to be permitted through the SWFWMD and the delivery/conveyance facilities permitted through the FDEP.
Sub Element 7.3	Sanitary Sewer Sub-Element						
Goal:	The Sanitary Sewer goal for the Tampa campus plan is to provide an adequate sanitary sewer system that accommodates the future University sanitary sewer needs.						
Objective 7.3.1	Provide for reliable and efficient collection and transmission of all wastewater generated by the University in an environmentally safe manner.		X				
Policy 7.3.1.1	The University shall continue a preventative maintenance program for existing lines as established in this Sanitary Sewer Sub-Element.			X			Revisit with PPD.

Policy 7.3.1.2	The University shall coordinate with the host communities to ensure that off-campus sanitary sewer facilities that may be affected by additional demands are improved as appropriate in accordance with procedures identified in Element 10, Intergovernmental Coordination. The University shall continue to follow established procedures to coordinate with appropriate City officials relative to University sewage requirements. USF shall pursue any interlocal agreements or memoranda of understanding necessary to ensure that sanitary sewer service will be supplied to the campus to meet the future needs of the University.		X				
Policy 7.3.1.3	The University shall recognize that future adjustment may be required in the sanitary sewer improvement program in response to changes in building programs and funding.		X				
Policy 7.3.1.4	Proposed increases in consumptive uses, whether residential or non-residential, shall be approved only upon a finding that existing sanitary sewer treatment and collection system capacity is already on-line to accommodate the increased load, or that additional capacity will be funded and on-line when needed. The system identified in Figure 7.3-1 is designed to achieve and maintain these standards.		X				Verify Figure No.
Objective 7.3.2	Maintain at a minimum the wastewater collection service at its present level of service with the implementation of the 10-year Master Plan						
Policy 7.3.2.1	The University shall ensure that the detailed sanitary sewer master plan maintains a level of service of 0.12 gallons per minute (GPM) minimum per 1,000 square feet of building area on an average daily basis.		X				Need to revisit and verify load value.

Objective 7.3.3	Coordinate any required sanitary sewer relocation and improvement program with the implementation of the capital improvement program and Master Plan.		X				
Policy 7.3.3.1	The University shall identify the main sanitary sewer trunk lines as "no build" zones. In the event the utility cannot be avoided, the Director of Facilities Planning and Construction should be contacted.		X				
Policy 7.3.3.2	The University shall, through its capital improvements program, ensure that the sanitary sewer system will be appropriately upgraded and expanded on-campus, as necessary to meet the future University needs described in Element 11, Capital Improvements.		X				Redundant to 7.3.1.2 and 7.3.1.4. Could be combined.
Policy 7.3.3.3	The University shall annually review future construction programs and priorities for deficiency remediation as part of the capital improvements requirements and procedures to ensure capacity and capital improvements required to meet future University needs are provided when required, based on needs identified in other master plan elements.					X	Covered in above policy. Combine or delete.
Objective 7.3.4	Correct any existing and future sanitary sewer deficiencies needed to maintain a reliable level of service.						
Policy 7.3.4.1	The University shall investigate and ascertain presence of hazardous materials when any of the existing lines (installed prior to 1980) or lift stations that are to be upgraded, removed or relocated and have the potential to contain asbestos, also known as "transite." Appropriate action will be taken by the University to have these lines removed, remediated, or replaced by a certified contractor or be allowed to remain; if associated risks are minimized.					X	No transite used in sanitary system.

Policy 7.3.4.2	The University, through Facilities Planning and Construction and Physical Plant, shall annually review future construction programs and priorities for deficiency remediation as part of the capital improvements requirements and procedures to ensure that sanitary sewer facility improvements required to meet future University needs are in place and operational, at the adopted levels of service, prior to occupancy of any new University building.		X				
Policy 7.3.4.3	The University shall devise and implement ongoing monitoring and evaluation activities to survey, document and assess the existing and future sanitary sewer system needs. This study shall address the data and analysis requirements contained in Rules 6C-21.207(7) and (8), F.A.C., and shall also:						Revisit FAC
	• Establish priorities for replacement, correcting sanitary sewer facility deficiencies found, providing for future facility needs.		X				
	• Establish the timing and phasing requirements and identify the projected funding sources for sanitary sewer facility improvements determined to be needed to meet future USF needs.		X				
Objective 7.3.5	Reduce the impacts of sewage generation.						
Policy 7.3.5.1	The University shall implement, where practical, the following techniques for reducing the impacts of sewage generated on the campus:						
	• Utilizing low volume plumbing fixtures.		X				
	• Implementing a leak detection and repair program.		X				
	• Eliminating stormwater, swimming pool and other illegal connections.		X				Delete swimming pool - not illegal connection.
	• Using pump stations and force mains to by-pass bottlenecked gravity mains.					X	Not a preferred SOP. Would only be used if not feasible to upgrade gravity system.
	• Re-routing air-conditioning condensate drain lines from the sewer system to alternate locations (such as rain barrels, cisterns, infiltration areas).			X			Not actively pursued.

Sub Element 7.4	Solid Waste Sub-Element						
Goal:	The Solid Waste goal for the Tampa campus plan is to provide for future University solid waste collection and disposal requirements in a safe, cost-effective, environmentally sound and an aesthetically satisfactory manner.						
Objective 7.4.1	Coordinate with the City of Tampa and Hillsborough County in establishing an appropriate level of service for solid waste collection.						
Policy 7.4.1.1	The University shall continue to assist in providing solid waste collection services for the residential and non-residential uses on campus.		x				
Policy 7.4.1.2	The University shall establish a level of service standard for solid waste collection consistent with the Hillsborough County provision of two years of permitted landfill space at the current fill rate, plus 10 years of land under county control for purposes of solid waste.						need further investigation and basis for statement
Policy 7.4.1.3	The University shall coordinate the provision of on and off-campus solid waste collection and disposal facilities required to meet future University needs with the host community or appropriate service provider as outlined in Element 10, Intergovernmental Coordination. USF shall pursue any interlocal agreements or memoranda of understanding necessary to ensure that solid waste collection and disposal services will be supplied to the campus to meet the future needs of the University.		x				revisit with B Donerly (where in Element 10 states solid waste)
Policy 7.4.1.4	Specific training shall be developed and administered to all employees who handle solid waste.		x				"provided" instead of "developed"
Objective 7.4.2	Define procedures to reduce University-generated solid waste and increase scope of recycling and reuse programs.						

Policy 7.4.2.1	The University shall continue to take steps to reduce the quantity of solid waste generated by expanding its recycling program to include additional interior and exterior, easily accessible drop-off locations. These drop-off facilities shall be installed in the individual buildings, residential areas or in other convenient locations. The University will strive to provide, at a minimum, for the recycling of paper, corrugated cardboard, glass, plastics, and metals. Awareness programs directed toward students, faculty and staff shall be included in this recycling program.		x				
Policy 7.4.2.2	The University shall recycle and / or salvage construction, demolition and land clearing waste as practical and possible.		x				
Objective 7.4.3	Establish a program to modify existing solid waste collection locations for convenient service while avoiding potential pedestrian conflicts and visual impacts.						
Policy 7.4.3.1	The University shall establish a unified screening program for solid waste collection locations. Included will be the implementation of aesthetic coordination as well as standardized solid waste containers.		x				
Policy 7.4.3.2	The University shall, during the design of specific building programs, evaluate the relationship of the proposed buildings with the existing buildings, and identify opportunities to reconfigure, enhance or screen solid waste collection facilities from pedestrian corridors.		x				
Objective 7.4.4	Encourage and support proper management in the disposal of hazardous and other special wastes.						
Policy 7.4.4.1	The University shall meet all State and Federal regulations in the collection and transportation of its hazardous wastes and materials.		x				

Policy 7.4.4.2	The University shall monitor the volume and type of hazardous waste collection and temporary storage on site to determine feasibility of constructing and operating the next higher level of storage facility on campus. If such a determination is made to proceed, the University shall amend the adopted campus master plan to reflect the timing, location, and scope of such a facility.		x				
Objective 7.4.5	Establish procedures to correct any existing solid waste facility deficiencies.						
Policy 7.4.5.1	The University shall ensure that solid waste collection and disposal facilities are appropriately provided and phased accordingly to meet the future University needs while correcting any disposal facility deficiencies. USF does not anticipate the need for any solid waste facility improvements at this time. If this condition changes, the University shall amend the adopted campus master plan to identify said improvements, and to establish the timing and phasing requirements and priorities for the improvements.		x				
Policy 7.4.5.2	The University shall establish that the timing and phasing of disposal facility improvements shall be coordinated with Element 11, Capital Improvements.		x				
Policy 7.4.5.3	The University shall annually review future construction programs and priorities for deficiency remediation as part of the capital improvements requirements and procedures of the Florida Board of Trustees to ensure capacity and capital improvements required to meet future University needs are provided when required, based on needs identified in other master plan elements.		x				"shall review as needed" in lieu of "annually"
Sub Element 7.5	Hot Water Sub-Element						
Goal:	The Hot Water Sub-Element goal of the Tampa campus is to provide adequate heating in the most cost effective manner while providing for flexibility in the growth of the campus and limiting the generation of greenhouse gas emissions.						

Objective 7.5.1	Based on Life Cycle Cost Analysis, and if cost effective, phase out the existing Central Plant heating equipment and underground hot water pipe distribution system as existing facilities are renovated.						
Policy 7.5.1.1	The University shall install hot water generation facilities in the Southeast quadrant of campus with 96,000 MBTU/h of capacity.			☑		☑	Requires a new satellite facility and distribution piping to be constructed within the future parking structure if implements. However, since this conflicts with Policy 7.5.1.4 decentralizing concept, this policy should be reevaluated or deleted.
Policy 7.5.1.2	The University shall evaluate methods to use waste heat recovery to reduce consumption of hot water. If any of these methods are demonstrated to be cost effective or otherwise feasible, the adopted campus master plan shall be amended as needed to reflect their implementation.		☑				
Policy 7.5.1.3	The University shall prepare a study that evaluates the possible benefits of decentralizing the hot water system.		☑				
Policy 7.5.1.4	The University shall implement energy conservation measures to reduce the hot water load demand and use of high efficiency heating gas-fired equipment.		☑				
Policy 7.5.1.5	The University shall implement energy conservation measures to reduce the hot water load demand and use of high efficiency heating gas-fired equipment.		☑				
Policy 7.5.1.6	The University shall evaluate use of heat pump chiller technology as a cogeneration option. Heat pump chiller technology is in fact a type of cogeneration as chilled water and hot water are produced simultaneously and eliminates water consumption associated with cooling towers used as part of traditional chilled water generation.		☑				Heat recovery chiller for hot water production has been considered at JPH.
Objective 7.5.2	Provide hot water, steam or electric resistance heating plants and/or components for each new or renovated facility.						

Policy 7.5.2.1	The University's Facilities Planning and Construction and Physical Plant Department will be responsible for reviewing all proposed development projects to ensure that adequate hot water capacity exists.		☑				
Policy 7.5.2.2	Proposed increases in hot water use, whether residential or non-residential, shall be approved only after finding that existing hot water distribution capacity is already on-line to accommodate the increased need, or that additional capacity will be funded and on-line at the forecasted time of need.		☑		The University's Facilities Planning and Construction and Physical Plant Department are responsible for evaluating and assessing the project impact fees for all non-E&G facilities as a basic part of the utilities planning process.		All non-E&G facilities shall bear the cost (via impact fees) of utilizing hot water utilities that are either existing in capacity or are being added in order to serve the needs of the said non-E&G facility from existing campus Boiler plant and/or hot water distribution infrastructure.
Objective 7.5.3	Provide sufficient hot water to correct existing deficiencies and to meet the future needs of the University.						
Policy 7.5.3.1	The University shall implement hot water improvements as identified on Figure 7.5-1. The timing and phasing requirements for these improvements are established in Element 11, Capital Improvements.		☑				

Policy 7.5.3.2	The University shall establish and adopt a level of service standard for hot water which provides and maintains a range of 140-180 degrees (F) hot water supply temperature to meet building heating demands. The guideline has been set to establish a 30°F temperature differential. Plant leaving heating hot water temperatures may be reduced down to 160°F during the off season and reduce temperature differential down to 20°F.	☑			The university has adopted this policy. Currently the hot water supply is controlled and maintained within a range of 140 - 160 degrees F. Adjustments are made between the stated range to optimize efficiency and operational requirements.		
Policy 7.5.3.3	Hot water facility improvements shall be implemented based on the following priorities:						
	• Elimination of existing system deficiencies		☑				
	• Maintaining the existing system		☑				
	• Expanding the system to accommodate new hot water needs		☑				
	• Develop and plan a program to replace aging Rickwell hot water piping with non-corrosive material in the northwest quadrant and the center core of the campus		☑				Campus Master Plan and infrastructure improvements when funding is available work towards meeting this goal.
Policy 7.5.3.4	The University shall refurbish and add isolation shut off valves and service valves in the heating hot water distribution loop to allow a continuous supply of hot water in other areas of the campus when piping leakages occur.		☑				

Policy 7.5.3.5	The University shall evaluate possible ways to preserve the life service of existing heating hot water piping by providing corrosion protection to all underground heating hot water piping distribution systems.		☑		A large percentage of the underground hot water distribution piping system has been in service 50 years or more, Condition unknown. However, where samples have been observed, there appears to be excessive corrosion on the steel carrier pipe exterior. These corrosion dimples result in a compromised wall thickness approximately one-half of the pipes original thickness.		A standard practice includes adding and maintaining corrosion inhibitors to the water circulating through the hot water distribution system in order to preserve the interior surface of the piping system life service.
Policy 7.5.3.6	The University shall develop heating hot water hydraulic piping modeling to simulate the actual hot water flow rate condition of the existing distribution system and identify the present and future pumping deficiencies.		☑				Campus model completed for existing facilities. Future distribution and piping to be developed during planning and forecasted time of need.
Policy 7.5.3.7	The University shall update and maintain complete verified hydraulic models for the modifications and expansions of the piping system throughout the campus.		☑				

Policy 7.5.3.8	The University shall develop and implement non-destructive testing procedures and practices to evaluate the status of existing underground piping systems.		☑		Whenever underground piping is exposed as a result of excavation in support of unrelated projects, the opportunity is used to make observations of the existing underground distribution piping where practical. Whenever possible, samples are collected for further metallurgical evaluation.		
Policy 7.5.3.9	The University, through the Office of Physical Plant, shall meter hot water loads to implement load management and load history for planning and conservation measures.		☑				
Policy 7.5.3.10	The University shall implement energy conservation measures to reduce the hot water load demand and use of high efficiency gas fired heating equipment.		☑				
Policy 7.5.3.11	The University shall continue to evaluate the possibility of implementing a waste heat recovery program by placing an electric utilities co-generation plant in the campus to supplement heating plant load demand.	☑					
Policy 7.5.3.12	The University shall continue to evaluate the possibility of implementing a waste heat recovery program by placing an electric utilities co-generation plant in the campus to supplement heating plant load demand.	☑					

Policy 7.5.3.13	The University shall pursue opportunities in clean fuel options (natural gas, synthetic gas, propane, etc.) and eliminate use of electric heat in existing facilities and new construction.		☑				
Sub Element 7.6	Chilled Water Sub Element						
Goal:	The Chilled Water Sub-Element goal of the Tampa Campus Master Plan is to provide an adequate chilled water service to the campus facilities in the most cost efficient manner that will support future expansion while limiting the generation of greenhouse gas emissions (GHG).						
Objective 7.6.1	Expand the Southeast chilled water plant to a thermal capacity level of 11,000 tons.						
Policy 7.6.1.1:	The Energy Models and Load Calculations shall be used to determine the amount of chilled and hot water. Equipment selection and energy conservation measures will be evaluated based on life cycle cost analysis.		☑				
Policy 7.6.1.2:	Chilled water facility improvements shall be implemented based on the following priorities:						
	• Expand the system to accommodate new chilled water needs.		☑				
	• Consideration given to heat pump chiller technology for simultaneous chilled and hot water generation.			☑			Heat recovery chiller for hot water production has been considered at JPH.
Objective 7.6.2	Campus Utility Plant facilities shall expand to accommodate the future new and renovation of facilities in USF Health and the NW quadrant of campus						
Policy 7.6.2.1	The University shall require that the current Chilled/Hot Water Master Utility Plan be modified based upon the amount of chilled water required for each new and/or renovated facility. The adopted campus master plan shall be amended as needed to incorporate any new chilled water requirements.		☑				
Policy 7.6.2.2	The University shall implement chilled water improvements as identified on Figure 7.6-1. The timing and phasing requirements for these improvements are established in Element 11, Capital Improvements.		☑				

Policy 7.6.2.3	No outside sources from either private or public facilities will be required for chilled water production because all chilled water originates from within the campus.	☑					
Policy 7.6.2.4	The University shall establish and adopt a level of service standard for chilled water which provides and maintains a maximum of 45 degrees chilled water supply temperature at a minimum pressure of 60 psig to meet building cooling demands.	☑					
Policy 7.6.2.5	The University's Facilities Planning and Construction and Physical Plant Department will be responsible for reviewing all proposed development projects to ensure that adequate chilled water capacity exists.		☑				
Policy 7.6.2.6	Proposed increases in chilled water use, whether residential or non-residential, shall be approved only after finding that existing chilled water distribution capacity is already on-line to accommodate the increased need, or that additional capacity will be funded and on-line at the forecasted time of need.		☑		The University's Facilities Planning and Construction and Physical Plant Department are responsible for evaluating and assessing the project impact fees for all non-E&G facilities as a basic part of the utilities planning process.		All non-E&G facilities shall bear the cost (via impact fees) of utilizing chilled water utilities that are either existing in capacity or are being added in order to serve the needs of the said non-E&G facility from existing campus chiller plant and/or chilled water distribution infrastructure.
Policy 7.6.2.7	The University shall continue to adhere to its policy for replacing ozone-depleting refrigerants with environmentally safe refrigerants.		☑				

Policy 7.6.2.8	The University shall continue to grow the Northwest satellite plant to meet the ongoing demands of the entire Northwest quadrant. Projected 10 year planning period future loads will require capacity expansion to 15,000 tons.		☑		The Northwest satellite plant (NWP) current includes 7000 tons of chiller capacity (4 x 1,750 ton high efficiency water cooled chillers).		Current facility is 7000 tons. Space for expansion of the existing chiller facility and cooling tower yard should be considered and included in this Master Plan update. Plan should include consideration of preserving the IT Main Distribution facility located in west side of MHB (room 0151). This MDF serves as a major hub for IT serving the Health Complex. Custodial Services house approximately 250 employees within this building. The Master Plan should consider and include any necessary expansion to handle displacements and Custodial Services growth needs manifested by the NWP expansion.
Policy 7.6.2.9	The University shall develop and implement a campus utility load profile for chilled water peak demand to determine the campus diversified peak load factor and establish firm capacity of the existing chiller plants that will be essential in accommodating future campus growth.		☑				
Policy 7.6.2.10	The University shall set and implement a 75% firm capacity criterion to optimize the chiller plant capacity redundancy to an acceptable level commonly used in educational institutions and still provide satisfactory cooling load demand when chilled water equipment failures occur.	☑			The current policy includes an N+1 strategy for firm capacity redundancy.		This policy should be revised to reflect the current N+1 strategy in lieu of 75% firm capacity.
Policy 7.6.2.11	The University shall evaluate possible ways to preserve the life service of existing chilled water piping by providing corrosion protection to the underground chilled water distribution system.		☑		A large percentage of the underground chilled water distribution piping system has been in service 50 years or more, Condition unknown. However, where samples have		A standard practice includes adding and maintaining corrosion inhibitors to the water circulating through the chilled water distribution system in order to preserve the interior surface of the piping system life service.

Policy 7.6.2.12	The University, through Facilities Planning and Construction, shall develop and maintain a NW satellite plant chilled water hydraulic piping model to simulate the actual chilled water flow rate condition of the existing distribution system and identify the present and future pumping deficiencies.		☑				
Policy 7.6.2.13	The University, through the Offices of Facilities Planning and Construction and Physical Plant, shall maintain complete verified hydraulic models for the modification and expansion of the piping system throughout the campus.		☑				
Policy 7.6.2.14	The University shall develop and implement non-destructive testing procedures and practices to evaluate the status of existing underground piping systems.			☑	Whenever underground piping is exposed as a result of excavation in support of unrelated projects, the opportunity is used to make observations of the existing underground distribution piping where practical. Whenever possible, samples are collected for further metallurgical evaluation.		
Policy 7.6.2.15	The University, through the Office of Physical Plant, shall meter chilled water loads to implement load management and load history for planning and conservation measures.			☑			

Sub Element 7.7	Electrical Power and Other Fuels Sub-Element						You should propose auditing at regular intervals (Every 2, 3, … years) to assess efficiency of energy use. This can be supported by the building monitoring systems that we are planning to implement with Johnson Control for potable water, hot water, chilled water and electricity. (Ghebremichael, Kebreab)
Goal	The Electrical Power and Other Fuels Sub-Element goal for the Tampa Campus Master Plan is to provide adequate, reliable, and cost effective electrical service to support campus operations and expansions through the 10 year planning period.		X		Campus Master Plan and infrastructure improvements when funding is available work towards meeting this goal.		
Objective 7.7.1	Update and implement design and construction standards to establish the levels of service and installation required to ensure that adequate, reliable, and cost effective electrical service is provided to future and rehabilitated facilities.		X		Design and Construction Guidelines updates are available on the		Updating the Design and Construction Guidelines is an ongoing process to ensure the most current Physical Plant standards are followed and constantly improving energy conservation technologies beneficial to the University are incorporated.

Policy 7.7.1.1	The University shall implement electrical energy system improvements as described in this sub-element or as identified on Figures 7.7-1 and 7.7-2. The timing and phasing requirements for these improvements are established in Element 11, Capital Improvements.	X			A new TECO feeder and southwest campus medium voltage system improvements were completed in 2014 to facilitate the improvements in Figures 7.7-1 and 7.7-2 reducing load on existing main substation feeders, increasing, capacity for growth, and improving redundancy of electrical service to the campus..		Additional infrastructure improvements are planned when funding is available to improve service reliability, capacity, and redundancy.
Policy 7.7.1.2	The University shall develop a phasing schedule for upgrading the existing electric power supply capacity and distribution system to meet future University needs when required. The adopted campus master plan shall be amended as needed to reflect any changes to the timing and phasing requirements.		X		A 5-10 year electrical infrastructure master plan has been developed, and infrastructure		The electrical infrastructure master plan is updated to meet the 5 year CIP and Master Plan updates.
Policy 7.7.1.3	The University shall hold regularly scheduled meetings with TECO to negotiate the terms and conditions under which TECO would continue to provide primary service to future University facilities.		X		Regular meetings, planning discussions, and negotiations are held with TECO.		Rates, service reliability and capacity, metering and service points are items discussed.

Policy 7.7.1.4	The University shall include TECO participation in all modifications to the master plan and in planned expansion programs to ensure adequate electrical service will be available when needed.		X		TECO participates in regular planning meetings discussing modifications to the Master Plan.		Facilities Planning and Construction Electrical Engineer regularly meets with TECO's Central Service Area Engineer, and conducts an annual meeting with TECO's planning personal.
Policy 7.7.1.5	The University shall require that a computerized life cycle cost analysis be submitted for all new and renovated facilities to determine whether natural gas and/or electricity will be the source of fuel.		X		Computerized life cycle cost analysis are submitted for all major projects.		Facilities Planning and Construction Mechanical and Electrical Engineers coordinate with the design team for each project.
Objective 7.7.2	Continue to reduce energy losses in the USF owned distribution system and in USF-owned and operated facilities.		X		Ongoing objective for all renovations and new projects..		Energy efficient lights, motors, and air conditioning equipment are provided in all projects. Campus power factor is monitored to avoid utility penalties.
Policy 7.7.2.1	The University shall continue to study the use of alternative energy sources (e.g., solar power, co-generation, on-site generation for peak demand shaving, etc.).		X		Alternate energy sources are considered when funding is available and has a favorable return on investment.		Continue researching new and improving technologies for alternate and renewable energy sources.
Policy 7.7.2.2	The University shall continue the use of energy efficient lighting fixtures, electronic ballasts, and high lumen efficiency lamps in all new and renovated buildings and shall continue to implement upgrades as technology evolves and funding is available.		X		Energy efficient fluorescent fixtures and LED fixtures are implemented.		Campus Design and Construction Guidelines are continuously updated to include improving LED and other energy efficient technologies in fixtures.
Policy 7.7.2.3	The University shall continue the use of infrared survey equipment to determine the status of the primary electrical distribution for energy reliability.		X		Infrared survey equipment is utilized by campus contractors and Physical Plant Department for preventive maintenance.		Infrared scans are provided periodically and preventive maintenance performed when required to improve distribution system reliability.

Policy 7.7.2.4	The electrical design of all future building construction shall be designed to achieve at minimum a Silver LEED rating.		X		Minimum Silver LEED rating is pursued on all new major projects.		All completed major projects achieve LEED certification.
Policy 7.7.2.5	The University shall continue to improve the reliability of the 13.2 KV underground system by selectively replacing the aged power transformers, high voltage switches, power cables, and refurbishing the manholes.		X		Capital Improvement list includes replacing transformers, medium voltage gear, and cable deemed at the end of their life expectancies as funding comes available.		Improvements are made when funding is available.
Policy 7.7.2.6	The University shall continue to identify energy conservation opportunities to reduce greenhouse gas emissions and reduce the load on existing feeders to allow additional capacity for future buildings.		X		The University constantly researches energy conservation opportunities to reduce greenhouse gas		Energy conserving measures are incorporated into campus guidelines.
Policy 7.7.2.7	The University shall provide consideration for a demand control strategy using the existing metering instrumentation available throughout campus to reduce the overall campus electrical demand. The existing equipment has the capabilities to be combined as an enterprise management system to increase the efficiency of the campus energy usage.		X		Building monitoring and control strategies are considered and implement where feasible and funded.		Automatic energy saving measures such as automatic vacant off lighting control in existing buildings are implemented as funding comes available.
Objective 7.7.3	Continue to update a computerized data based load tabulation of electric power requirements, for existing facilities and for new buildings proposed in the master plan, which can be upgraded for changes on as needed or programmed basis.		X		Load tabulation data for existing buildings and proposed new buildings is maintained and updated for Master Plan updates.		Upgrading Physical Plant Department current metering system to include recording historical demand load profiles will be implemented when funding becomes available.

Policy 7.7.3.1	The University shall continue to require that a report be submitted for each new and/or renovated facility indicating the amount of electricity which will be required for each renovated and/or new facility.		X		Load calculations are requried for all projects.		None
Policy 7.7.3.2	The University shall continue to require that the campus electrical power distribution system be modified to meet the electricity demands created by the renovated and/or new facilities.		X		The University is complying with this policy.		None
Policy 7.7.3.3	The University's Office of Physical Plant and Facilities Planning and Construction will continue to be responsible for reviewing all proposed development projects to ensure that adequate electrical energy capacity exists.		X		All proposed development projects are reviewed to ensure adequate electrical capacity exists.		None
Policy 7.7.3.4	Proposed increases in electrical energy use shall continue to be approved only after finding that existing electrical energy distribution capacity is already on-line to accommodate the increased need, or that additional capacity will be funded and on-line at the forecasted future time of need. New loads shall be evaluated and selectively added to the existing campus electrical distribution.		X		The University is complying with this policy.		None
Objective 7.7.4	Limit the expansion of the University-owned electrical distribution system to within the boundaries established by USF. (See Figures 7.7-1 and 7.7-2.)		X		The University is complying with this policy.		None
Policy 7.7.4.1	Electrical system improvements shall be implemented based on the following priorities:						
	• Maintaining the existing system		X		The University is complying with this policy.		None
	• Expanding the system to accommodate new electrical energy needs.		X		The University is complying with this policy.		None

Objective 7.7.5	Inventory of emergency generators on the campus.	X			Campus generators locations and sizes are included in the campus master utilities plan. Physical Plant Department maintains the inventory list.		None
Policy 7.7.5.1	The University shall keep an updated inventory of emergency generators on campus.		X		The University is complying with this policy.		None
Objective 7.7.6	Develop a means or standard for the assessment of disaster preparedness in existing and future buildings.		X		Disaster preparedness and response plans are developed and updated by Environmental Health and Safety, Physical Plant Department, and Facilities Planning and Construction.		None
Policy 7.7.6.1	The University shall determine the potential risk, liability and economic impact of long term power outages for existing and new buildings.		X		The University is complying with this policy.		None
Policy 7.7.6.2	The University shall assess the environmental exposure of electrical service equipment for worst case weather scenarios.		X		The University is complying with this policy.		None
Sub Element 7.8	Telecommunications Sub-Element						
Goal	The Telecommunications Sub-Element goal for the Tampa Campus Master Plan is to provide each existing building and planned new buildings on the Tampa campus with communications connectivity for telephone, data, and video/media networks.						

Objective 7.8.1	To plan, design and implement communications infrastructure at the Tampa campus, as shown in Figures 7.8-1 and 7.8-2, in order to correct existing deficiencies and meet the voice, data and video communications needs of the 10 year planning period.						
Policy 7.8.1.1	The University shall program funding for design and construction to extend the infrastructure to encompass the student organization housing (SE quadrant) and the physical education, recreation, and athletics areas.	X					
Policy 7.8.1.2	The University shall program funding for design and construction to extend the infrastructure south of the Sun Dome to connect the Patel Center and associated development, and provide redundant/alternative pathways for the campus fiber backbone.	X					
Policy 7.8.1.3	The University shall program funding for design and construction to extend the infrastructure to the southwest to connect the USF Research and Development Park with the main campus.			X			
Policy 7.8.1.4	The University shall program funding for design and construction to extend fiber optic cable to classrooms, offices, and dormitories to provide connectivity for faculty, staff, students, and residents.			X			Lack of funding
Policy 7.8.1.5	The University shall program funding for design and construction to interconnect the medical office buildings at the regional Davis Island campus (USF Health South Tampa Center for Advance Healthcare) and the College of Medicine Infrastructure located on the Tampa campus.		X				
Policy 7.8.1.6	Participation by local exchange carriers (LEC) and the local CATV company and other service companies shall be required in all modifications to the Master Plan and in planned expansion programs to ensure adequate telecommunications will be available when needed.		X				

Policy 7.8.1.7	The University shall program funding for design and construction to upgrade and create additional licensed and unlicensed wireless systems to meet the needs of the University's educational mission.		X				
Policy 7.8.1.8	The University shall implement telecommunications system improvements as identified on Figures 7.8-1 and 7.8-2. The timing and phasing requirements for these improvements are established in Element 11, Capital Improvements.		X				*Replace "telecommunications" with "Data Communications"
Policy 7.8.1.9	Telecommunications system improvements shall be implemented based on the following priorities:						*Replace "telecommunications" with "Data Communications"
	• Elimination of existing system deficiencies		X				
	• Maintaining the existing system		X				
	• Expanding the system to accommodate new telecommunications system needs.		X				
Policy 7.8.1.10	The University's Information Technologies Department shall be responsible for reviewing all proposed development projects to ensure that adequate telecommunications system capacity exists.		X				*Replace "telecommunications" with "Data Communications"
Policy 7.8.1.11	Proposed increases in telecommunications system use, whether residential or non-residential, shall be approved only after a finding that existing telecommunications system capacity is already on-line to accommodate the increased need, or that additional capacity will be funded and on-line at the forecasted future time of need.		X				
Policy 7.8.1.12	The University shall program funding for data and voice infrastructure in support of new buildings and faciltities.		X				
Objective 7.8.2	Standardize on a data local wide area network, for campus-wide use, that will serve USF's network needs through the 10 year planning period and beyond.						

Policy 7.8.2.1	The University shall program funding for design and construction to provide adequate copper connectivity for voice, multi-mode fiber for data, and single mode fiber for video/data to all buildings on the Tampa campus.		X				generic - cabling infrastructure to replace specifics
Policy 7.8.2.2	The University shall identify, inventory, and study any electromagnetic field generators on the campus.		X				
Policy 7.8.2.3	The University shall program funds to perform an inventory and study of electromagnetic fields on campus.		X				
Objective 7.8.3	Identify, inventory, and assess any media or high bandwidth application on the campus.						
Policy 7.8.3.1	The University shall program funds to perform an inventory and study of video systems on campus.		X				
Objective 7.8.4	Maintain a periodically revised USF voice/data/video Construction Standard for use in all new construction and renovation projects requiring these services.						
Policy 7.8.4.1	Information Technologies and other designated entity, shall produce, distribute, and update as necessary a set of construction standards for campus-wide voice/data/video systems, based on technology to support the University through		X				

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Element 8: Conservation

Goal 1: The Conservation goal of the 2010 Campus Master Plan is to be an institutional model for conservation policies, to meet the ACUPCC goals, to minimize negative environmental impacts, and better the environment through improved air, water and open space quality in the vicinity of the campus.

Objectives & Policies		Status: Complete	Status: Ongoing	Status: Not Implemented	Current Condition	Delete?	Comments/Problems/Recommendations
Objective 8.1	Identify mitigation techniques in order to reduce greenhouse gas emissions and improve the air quality.						
Policy 8.1.1	The University shall continue to participate in and consider expanding those programs that contribute to improving existing air quality and reducing greenhouse through the reduction of campus traffic and parking demands. Such programs include, but are not limited to, participation in local transportation management associations such as New North Transportation Alliance (NNTA), transit routing and terminal servicing activities and the promotion of bicycle and pedestrian circulation improvements.		x				
Policy 8.1.2	The University shall reduce mobile sources of air pollution through implementation of Element 5,Transportation policies designed to discourage dependence on single occupancy vehicles (SOV) as the primary transportation mode for commuting to and from and/or moving on campus, reduce emissions caused by idling times at signals, and to encourage alternative modes of transportation.		x				
Policy 8.1.3	The University shall explore and implement, as appropriate, alternative fuel vehicles including automobile and golf cart fleets and campus shuttle systems for on-campus utilization.		x				

Policy 8.1.4	The University shall determine the potential impacts on air quality before construction of parking structures. Parking structures shall be sized and designed to facilitate rapid ingress and egress of vehicles to minimize idling time, and to maximize air flow through them to eliminate pockets of stagnation where pollutant levels can build up.		x				revisit
Policy 8.1.5	The University shall minimize emissions of air pollutants from and within buildings on campus, minimizing the storage and use of volatile and hazardous materials,		x				check with EH&S & revisit (You may also want to add that labs should be equipped with fume hoods (Ghebremichael, Kebreab))
Policy 8.1.6	The University shall continue monitoring both indoor and outdoor air quality.						revisit
Policy 8.1.7	The University shall implement tree planting programs targeting 1,000 trees per year over the initial five-year planning period (See Figure 8-3, 10 Year Tree Cover) as a means to provide the following benefits onto campus:		x				report new tree count
	• Increased carbon absorption for improved air quality						
	• Reduced the heat-island effect on campus						
	• Reduced stormwater runoff						
	• Enhanced outdoor space, providing shade for campus population and encouragement for increased alternative non-vehicular circulation.						
Objective 8.2	Conserve and protect the quantity and quality of water sources including groundwater and surface water.						
Policy 8.2.1	The University shall identify all existing and proposed potable well locations as "no build" zones, except for recreation facilities.		x				
Policy 8.2.2	The University shall not undertake activities on-campus which would contaminate groundwater sources or designated recharge areas unless provisions have been made to prevent such contamination or otherwise provide mitigation for such activities so as to maintain established water quantity and quality standards. (See Sub-Elements 7.1, Stormwater Management and 7.2, Potable Water.)						need further discussion
Policy 8.2.3	The University shall continue to monitor and test treated potable water on a monthly basis. (See Sub-Element 7.2, Potable Water.)		x				DOH req.
Policy 8.2.4	The University shall monitor surface waters for compliance with existing standards for water quality. (See Sub-Element 7.1, Stormwater Management.)						revisit

Policy 8.2.5	The University shall continue to implement its comprehensive Water Conservation Plan, to include, but not be limited to the following measures:						USF should work on awareness raising for conservation (Again the displays from the building monitoring systems would be helpful) (Ghebremichael, Kebreab)
	• Exploration of the potential interdependencies between chilled water make-up/discharge, stormwater, and treated wastewater and irrigation (See Element 9, Infrastructure)		x				
	• The use of automated timers, irrigation flow monitoring mechanisms, rain and ground moisture sensors		x				
	• Application of low maintenance xeriscape, native plant landscape treatments for new and renovated building construction and new and renovated campus open space site and facilities		x				
	• The use of low-flow and low-flush fixtures in new building construction, and water audits and other leak detection programs.		x				
	• Continue to maximize the use of condensate and storm water to offset the consumption of water in irrigation, water features, water closets, and urinals.		x				
Policy 8.2.6	The University shall ensure the status and integrity of all identified underground storage tanks on a periodic basis through its ongoing monitoring program.		x				
Policy 8.2.7	The University shall construct a series of stormwater management facilities located within the Greenway providing reduction of stormwater pollutants prior to their eventual outfall. As part of new construction, additional, visible pilot and permanent low-impact design and stormwater management projects shall be considered for implementation within the public campus realm in support of demonstrating institutional commitment to protecting and conserving water, including reduction of pollutants, on campus and within the water shed. (See Sub-Element 7.1, Stormwater Management.)		x				edit wording
Objective 8.3	Protect identified jurisdictional native vegetative communities whether upland or wetland, as shown in Figure 8-1, 10 Year Natural and Environmental Resources and campus plantings.						revisit "jurisdictional native"

Policy 8.3.1	The University, through a qualified professional, shall conduct a campus wide landscape documentation and assessment including location and identification of existing plant materials, and assessment of health and condition, horticultural, environmental, and spatial significance, for the purpose of establishing a University tree and plant inventory data base. This data base will enable development of long term management and protection of campus horticultural resources and investments, including budgeting for landscape implementation and staff operations.						possible map to hl "no build" zone
Policy 8.3.2	The University, in order to maintain the aesthetic quality, health, and investment in the main campus landscape and the vegetative resources of the USF Forest Preserve Area, shall provide for the development of a Campus Landscape Management Plan by a qualified professional. This plan shall focus on long term sustainability of the landscape and include identification and description of tasks, schedule and frequency, operational requirements including equipment, materials, and identification of personnel by skill appropriate to tasks and budgeted hours.		x				
Policy 8.3.3	Based on the landscape assessment, the University shall identify and protect jurisdictional and other areas of native plant communities from development by designating these areas as "no build" zones. Areas of native plants may include:			x			
	• The USF Forest Preserve north of Fletcher Avenue, shown in Figure 8-2, 10 Year Greenway and USF Forest Preserve, except for research activities as required, and recreation activity within Riverfront Park described in Element 9, Recreation and Open Space, Figure 9-4, Riverfront Park Recreation Area.						revisit
	• The open area east of Leroy Collins Boulevard along Fowler Avenue.		x				
	• The hardwood hammock and wetland area at the southwest corner of Fletcher Avenue and 50th Street.		x				
	• The retention lake, Lake Behnke, at Bruce B. Downs Boulevard and area of the existing Botanical Gardens.		x				
	• Other areas of the Greenway specifically identified in Element 9, Recreation and Open Space, as conservation areas.		x				

	• Other opportunities to protect environmentally sensitive lands based upon State and local criteria shall be evaluated. Should development be necessary to occur within these areas, mitigation techniques as provided by the regulatory agencies shall be coordinated with the host community and permitting agencies by the University.		x				
Policy 8.3.4	The University shall endeavor to use plant species that are indigenous to the natural plant communities of the Tampa Bay area. In cases where non-invasive exotic plants are used to enhance the landscape, plantings shall be limited to those non-invasive species that are able to resist periods of drought and which require little fertilization or the use of pesticides.		x				froz resistance
Policy 8.3.5	As part of ongoing planting efforts, the University shall introduce a greater variety of tree and other plant species and greater numerical balance between various species in order to reduce likelihood of collective loss of a single species or group of species that may occur due to an existing or potential yet unknown blight condition. Additionally, the University shall continue to develop age diversity in the tree stock through a phased introduction of trees within given areas overtime to improve the long-term sustainability of the aesthetic landscape and vegetative communities.		x				reword
Policy 8.3.6	The University shall maintain and improve existing vegetative communities through the removal of ecologically undesirable vegetation. It is the intent of the University to remove all non-native invasive plants (whether grasses, shrubs or trees) which are identified on the most current Exotic Pest Plant Council's "Florida's Most Invasive Species List" from the campus grounds. As these species are identified on the campus. The University shall coordinate with the Florida Department of Environmental Protection and other appropriate governmental entities to ensure the proper removal and disposal of these exotic species.		x				

Policy 8.3.7	The University shall endeavor to reduce the extent of turf grass on campus in favor of alternative native and xeriscape groundcovers (shade tolerant where required) and designation of areas of naturalized groundplane, to thereby reduce water consumption, fertilizer application, and overall mowing maintenance requirements.		x				
Objective 8.4	Designate environmentally sensitive lands for protection based on state and locally determined criteria.						
Policy 8.4.1	The University shall maintain the jurisdictional areas based upon the most recent Florida Department of Environmental Protection criteria, standards and guidelines.		x				
Policy 8.4.2	The University shall maintain, in a managed natural state, all of those sites identified for preservation on the 10 Year Natural and Environmental Resources (8-1). No construction is anticipated in these areas except for minimal structures and improvements necessary to ensure safe access and essential recreational support functions.						revisit
Policy 8.4.3	During the initial planning phase of any physical changes to the campus, the University shall perform a census of plants and wildlife in the area to be affected. Existing plants or animals identified in the most current "Official Lists of Endangered and Potentially Endangered Fauna and Flora in Florida", Florida Fish and Wildlife Conservation Commission, or otherwise afforded protection by the host communities and state and federal agencies, shall be noted. Protection plans for those identified species shall be formulated consistent with those of the host communities and appropriate state and federal agencies.						reword to environment
Objective 8.5	Restrict University activities known to threaten the habitat and survival of threatened and endangered species and species of special concern.						
Policy 8.5.1	The University shall continue to require the use of best management construction practices, including the use of soil stabilizers, silt screens, surface moisture applications and other techniques to reduce the impact of development activities as identified in the USF Design and Construction Guidelines http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html		x				

Policy 8.5.2	The University shall minimize site disturbance on previously undeveloped sites, and shall utilize native or adapted non-invasive xeriscape vegetation when restoring disturbed areas.		x				
Policy 8.5.3	Future development, including buildings, parking facilities, utilities, walkways, paths, stormwater facilities, and recreation fields, shall be carefully sited to minimize impacts to existing trees. Prior to initiating construction, trees shall be protected from damage through the use of perimeter barricades placed at the tree drip lines or critical root zones (whichever is greater), and shall remain in place throughout the period of construction. Existing trees that are removed due to construction shall be replaced with new trees; total caliper of all new trees combined shall equal total caliper of trees removed or lost through construction. Replacement trees may be planted at the site of construction or elsewhere on campus depending on the site and overall campus needs as determined by USF Facilities Planning and Construction.		x				edit wording
Policy 8.5.4	Any proposed development adjacent to an environmentally sensitive area shall be carefully sited and integrated into the existing landscape to have minimal visual impact on the area. Landscape treatment shall preserve significant existing vegetation to allow a gracious transition from developed areas to undeveloped areas to preserved areas. The existing vegetation shall serve to essentially buffer proposed development in order to maintain the natural and undeveloped character of the area. (See USF Design and Construction Guidelines http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html)		x				
Policy 8.5.5	The University shall protect and conserve the natural functions of soils, rivers, flood-plains and wetlands. The University shall continue to support the designation of Hillsborough River as an Outstanding Florida Water by protecting and enhancing this important resource.		x				

Policy 8.5.6	The University shall construct new facilities in respect of appropriate flood zone requirements. The University shall, to the maximum practical extent, locate buildings outside of the Federal Emergency Management Agency's (FEMA) recognized 100 year flood zone. In those locations where encroachment into the floodplain is deemed unavoidable, the University shall provide Base Flood protection and abide by all regulatory requirements to provide compensatory flood storage areas.		x				
Policy 8.5.7	The University shall continue to protect and conserve threatened and endangered species of plants and animals, and species of special concern, as required by the Endangered Species Act of 1973, as amended, Chapter 39, F.A.C., and federal and state management policies relating to the protection of threatened and endangered species, and species of special concern. The campus has been largely disturbed but known gopher tortoise habitats occur to the north of the existing Botanical Garden and in the USF Forest Preserve. Both areas are designated as no-build zones.		x				coordinate. with previous policy
Policy 8.5.8	University personnel shall, when encountering listed species, follow procedures and seek consultation with the appropriate agencies as identified in the Florida Fish and Wildlife Conservation Commission's most current "Wildlife Methodology Guidelines."		x				
Policy 8.5.9	The University shall endeavor to reduce and prevent “light pollution” and its impact on nocturnal environment by meeting relevant LEED credit guidelines in new development and through phased replacement of non-compliant lighting campus wide.		x		is this location right?		
Objective 8.6	Reduce the quantity of waste generated on campus and expand the percentage of waste recycled or reused.						
Policy 8.6.1	The University shall continue its ongoing evaluation of monitoring, reducing, and disposing of hazardous chemical and medical wastes. New technologies to assist in transporting and disposing of such wastes shall be evaluated by the University. (See Sub-Element 7.4, Solid Waste Management.)		x				

Policy 8.6.2	The University shall provide on-campus facilities for the collection and storage of hazardous materials used in University operations as required by federal, state and local regulations. (See Sub-Element 7.4, Solid Waste Management.)		x				
Policy 8.6.3	The University shall continue to encourage reduction of generated waste materials and expanded use of its recycling and reuse programs by establishing mechanisms for coordinating efforts of USF Physical Plant and Auxiliary services, creating awareness through varied communication methods, and installing additional convenient recycling centers. (See Sub-Element 7.4, Solid Waste Management.)		x				
Policy 8.6.4	The University shall coordinate on-campus recycling programs with those of local government in regard to materials collected, and disposal/collection procedures. (See Sub-Element 7.4, Solid Waste Management).			x			
Policy 8.6.5	The University shall, through USF Purchasing and Auxiliary Services, endeavor to establish mechanisms for developing and maintaining a "green" products data base and shall encourage use of those environmentally preferable products with lower environmental impact.		x				Make reference to the "purchasing guidelines" that was developed recently (Ghebremichael, Kebreab)
Objective 8.7	Identify measures to conserve and appropriately reduce energy use.						
Policy 8.7.1	The University shall evaluate and implement, as appropriate, solar energy and other clean energy sources as alternative sources of power for irrigation systems and lighting, shuttles, phones, etc. (See Sub-Element 7.7, Electrical Power and Other Fuels.)		x				
Policy 8.7.2	The University shall establish administrative, operational and other procedures to monitor energy use on a building specific basis and provide enhanced feedback to end users on their energy use, and incentives for reduction.		x				You can make reference to the building monitoring systems (Ghebremichael, Kebreab)
Objective 8.8	Expand the use of conservation and energy saving techniques with the planning, design, and construction of new facilities.						
Policy 8.8.1	The design of new buildings shall be consistent with the climatic response and sustainability guidelines contained in the USF Design and Construction Guidelines http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html.		x				

Policy 8.8.2	Energy conservation fixtures, air conditioning and lighting systems and other building specific energy use and management techniques shall continue to be a required element of all new and renovated buildings constructed on the campus.		x				
Policy 8.8.3	The University shall consider, during development of building programs and design, the building orientation, increased daylighting measures, utilization of courtyards, arcades and other shade and ventilation techniques to further reduce energy demands.		x				
Policy 8.8.4	The University shall consider, during development of building programs and design, use of low-maintenance, local (within 500 miles per USGBC LEED), durable, and sustainable materials, with priority placed on durable materials with long term life cycle benefit.		x				
Policy 8.8.5	The University shall require all major new construction and renovation projects to seek USGBC LEED certification with goal of achieving Silver rating or above. Commissioning is required on all projects. The University has a target of energy saving of 15-20% above the ASHRAE 90.1-2004 Baseline.		x				
Policy 8.8.6	Copies of land development criteria and design standards which reflect the policies contained in the adopted Campus Master Plan, USF Design and Construction Guidelines, http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html and Final Climate Action Plan shall be provided to design consultants and appropriate University staff. The University shall standardize the construction review process to assure adherence to appropriate Master Plan and Design and Construction Guideline policies.		x				

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Element 9: Recreation and Open Space Element

Goal 1: The Recreation and Open Space goal of the Tampa Campus Master Plan is to provide enhanced recreational options for the campus community in a diverse open space environment that links the campus and the larger host community.

Objectives & Policies		Status: Complete	Status: Ongoing	Status: Not Implemented	Current Condition	Delete?	Comments/Problems/Recommendations
Objective 9.1	Provide recreational facilities and open space to meet campus community demand through the coordinated use of public and private resources.						revise
Policy 9.1.1	The University shall establish a private donor program for the purpose of contributing to the development and maintenance of on-campus athletics, recreation and open space facilities and shall coordinate the distribution of these funds with other public University funding sources.		x				
Policy 9.1.2	The University shall work with the Campus Recreation and Athletics Departments, campus organizations, Sun Dome management, and public/private off campus organizations to investigate and seek expanded opportunities for generating income through campus facility rentals and programs at the main campus, The Claw, USF Forest Preserve, and Riverfront Park.		x				
Policy 9.1.3	The University shall work with host communities and agencies to explore shared or swapped recreation/open space development, maintenance, and/ or use of facilities to better serve the University and local populations.		x				
Objective 9.2	Provide increased facilities to serve on-campus recreation, physical education, and intercollegiate athletic demands.						

Policy 9.2.1	The University shall increase recreation and athletic facilities to meet on-campus recreation, physical education, and intercollegiate activities within the 10 year planning time frame. The proposed improvements to athletics, recreation and open space facilities are identified in Figures 9-1, 10 Year Recreation and Athletics Facilities and Figure 9-2, 10 Year Campus Open Space. (See also Element 9, Recreation and Open Space, 2010 Data Collection and Analysis Report.) The timing and phasing requirements for these proposed improvements are established in Element 11, Capital Improvements. Priority shall be placed on correcting deficiencies in remaining recreational, physical education, and athletic facilities, especially where these deficiencies prevent the use of the facility for its programmed purposes, or where the correction will allow for an increased ability to accommodate unmet demand.		x				possible hyperlink for graphics
Policy 9.2.2	The University shall establish a basis for level of service (LOS) standard for the provision of recreational space, such as the National Intramural Recreational Sports Association (NIRSA) standards, as a means to ensure that the future recreational needs of the campus community are adequately met.		x				Eric to answer; how far from basic level of service
Policy 9.2.3	The University shall explore the physical, operational, and fiscal feasibility of pursuing development of a new stadium on campus or through land acquisition on expanded campus lands. A new campus stadium would enhance the USF experience for students and the community at large, and serve a variety of uses and activities. It could also become a gathering place for all-campus events.		x				
Objective 9.3	Provide increased opportunities for on-campus access to varied, high quality open spaces.						
Policy 9.3.1	As shown in Figures 9-2, 10 Year Campus Open Space and 9-3, 10 Year Greenway Structure and Edges, the University shall establish a hierarchy of campus open spaces including: the Greenway and Edges, pedestrian corridors, quadrangles, plazas and courtyards within the 10-year planning time frame in partnership with the capital building and infrastructure improvements program as identified in Element 4, Future Land Use and Element 11, Capital Improvements.						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy

Greenway—The University shall commit to the protection of the delineated Greenway comprising 158.7 acres including 22.62 acres of Unobstructed View Easement at Lake Behnke as indicated in Figure 9-3, 10 Year Greenway Structure and Edges, extending from Lake Behnke to the wetlands at Fletcher Avenue and 50th Street (including the Central Quadrangle), as a restricted no-build zone in order to establish an open space Greenway. Continued implementation of the Greenway and its enhancement is a high priority because of its:						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
• Functional importance in addressing stormwater management requirements and providing greater visibility to natural hydrological systems and University sustainability initiatives						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
• Unique form-giving characteristic establishing a sense of clarity and orientation to the campus						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
• Enhancement of recreation and social opportunities						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
• Role in carbon sequestration and reducing the heat island effect						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
The Greenway should continue to be implemented in a strategic, incremental way in advance of individual campus projects so as to maintain the stormwater management capacity necessary to support future building projects and provide the open space amenity that makes engagement with adjacent development and campus constituents more likely.						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy
The Greenway is comprised of the following landscape character sub-districts and programmatic zones (See Figure 9-3, 10 Year Greenway Structure and Edges.):						
• **Urban Parkland**. Within the Greenway, the Central Quadrangle is designated as “urban” parkland at the heart of the campus. It includes a combination of formalistic, “designed” signature plaza and tree lined walkway edges and strong informal designed spaces connecting to the more naturalistic areas to the northeast and southwest.						too lengthy, look at element 8, possible individual objective/policy. All are too general statements not policy

• **Naturalistic Parkland**. These are areas within the Greenway that are pastoral in character and may be used for informal recreation facilities and open play space. Areas designated as naturalistic parkland may not be converted to another use without a formal Master Plan Amendment.		x				
• **Recreation**. In contrast to the naturalistic parkland areas, recreation areas within the Greenway may be used for organized striped play fields. In order to be used for this function. The play fields within the Greenway must be designed with subsurface drainage systems that maintain, at a minimum, the water percolation rate that would be associated with campus lawn areas. It is also required that such fields not be enclosed with fences, so as to maintain the visual continuity of the Greenway and a park-like pastoral character when the fields are not in use. Areas designated as recreation areas may not be converted to another use without a formal Master Plan Amendment.		x				We may need to alter the term "required" as it pertains to fences since there are already some areas in the greenway that have fences and there are other areas that desire fences (EH)
• Conservation and Research. This designation includes areas that provide conservation of land, habitat, water and vegetative resources, soil, and/or endangered species and site for ecological research. These areas include the Lake Behnke/Botanical Garden area (adjacent to Bruce B. Downs Boulevard) and proposed reclaimed site currently occupied by Lot 19, the wetlands located in the northeast corner of the main campus at Fletcher Avenue and 50th Street, and—while not part of the Greenway per se—the USF Forest Preserve north of Fletcher Avenue.						look at element 8, too general statement not policy - revise
In addition, the Greenway is intended to accommodate an array of stormwater management facilities and existing groundwater well fields including:						
• **Stormwater management lakes and ponds.** This designation includes existing and proposed lakes and ponds that will remain filled with water throughout the year. While some relocation of future water areas may be possible, subject to USF engineering review, the overall surface area designated in the Campus Master Plan for this function cannot be reduced without a formal Campus Master Plan Amendment.		x				

• **Stormwater management swales and retention areas**. This designation includes existing and proposed areas that are designed to be detention areas. Normally these areas will be dry, but will detain stormwater runoff for a period of time during a storm event. The amount of land designated for this function cannot be reduced without a formal Campus Master Plan Amendment.		x				
• **Below grade storage.** Subsurface storm water retention/infiltration devices can be utilized on campus to accommodate the additional storm water needs of a growing university campus. Below grade storage chamber systems allow storm water to infiltration into the ground, thereby recharging the immediate groundwater table. This helps to provide the needed water for native wetland environments on campus. Storage chambers allow for storm water collection which can then be diverted for such uses as irrigation or water features. Most importantly, when acreage on campus is limited, below grade storage devices can be installed beneath facilities, preserving the land surface above for other uses such as recreational activity.		x				
• **Protection of future well fields**. In order to ensure a sustainable campus, the University must provide safe drinking water for the campus community. To do so, the campus has protected its current drinking well field from future development. Likewise, the region of campus designated for a future well field must have similar safeguards. The restrictions within the Greenway may also serve to protect the future well field. Because the actual wells require little space, it can easily share use with space designated as greenway recreational area.		x				
• Wetlands. The northeast corner of the campus, south of Fletcher Avenue and west of 50th Street, contains a significant area of wetlands which links the Greenway to the existing USF Forest Preserve (north of Fletcher Avenue), providing for stormwater management and contributing to the preservation of native habitat linkages. These wetlands are located within a designated “conservation” sub-district and are not suitable for informal recreation use.		x				

(See Sub-Element 7.1, Stormwater Management and Figure 7.1,-1 10 Year Stormwater Management Facilities and Sub-Element 7.2, Potable Water, Figure 7.2-1, 10 Year Potable Water.)						
Central Quadrangle—Continue to design and implement Central Quadrangle improvements in order to provide a physical setting that provides a quality collegiate atmosphere and identifiable place-making campus center. Although not identified with a specific building project, improvements to the Quadrangle are considered important as they contribute memorable spaces, thereby improving the sense of campus community, while enhancing the visual impact of this “signature” landscaped space. The spatial character of this central space should reflect and respond to the strong primary diagonal circulation desire lines identified in to the Plan with an asymmetry that complements the existing Martin Luther King plaza and trellis at the east end of the quad. Greater landscape variation and plant material diversity should be employed to establish a cohesive central quadrangle that is both spatially unified and interesting. While tree planting to shade walks is a priority, overall planting design shall include informal massing of diverse plant material to increase the usable area with the shade of tree masses, establish stronger and more interesting spatial definition and provide greater aesthetic interest. The overall resulting character will be of a naturalized, informal landscape within a framework of urban spaces and strong diagonal reflecting the proposed major circulation routes crossing the open quad.						"Continue to design and implement Central Quadrangle improvements in order to provide a physical setting that provides a quality collegiate atmosphere and identifiable place-making campus center." (other is good description but unnecessary for policy)

	Corridors—Extend the development of the Sessums Mall through phased implementation of the full length of the cross-campus east-west mall as a high priority. Additional corridors are indicated on Figure 9-2 and in Element 5, Transportation Figure 5-9. Existing corridors shall be enhanced with shade through tree planting, or other means such as trellises, shade structure, or building arcades. Implementation of new corridors shall be phased in coordination with adjacent building development or redevelopment or as independent projects ahead of development.		x				
	Quadrangles—Continue to implement a hierarchy of "local" quadrangles distributed throughout the campus as shown in Figure 9-2, 10 Year Campus Open Space, by means of judicious building placement which provides inviting, humane outdoor living spaces appropriate to the climate of west central Florida. Quadrangles should include programmatic opportunities for food, seating, wireless access, and shade.		x				
	Courtyards—Encourage inclusion of interior courtyard spaces in all new buildings or closely clustered groups of buildings when and where appropriate.						"Require to include…or other green space according to best practice"
	See USF Design and Construction Guidelines, http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html for additional information						
Policy 9.3.2	The University shall affirm a belief that naturalistic parklands are necessary to the quality of urban life and that the institution seeks continuity with the natural communities and processes that support human life. The University will ensure that the Greenway reflects design for the future by connecting to the USF Forest Preserve north of Fletcher Avenue and that adjacent spaces are developed appropriately.		x				

Policy 9.3.3	The stormwater areas reserved in the Greenway as shown on Figure 4-2, Long Range Campus Master Plan Concept will be retained for future ultimate growth needs. Until that time, the areas may be used for geologic and hydrologic academic studies and recreational use, as well as for their visual amenity value, which enhances the overall quality of the campus setting.		x				review element 8, retained for stormwater, academic studies and rec. use
Policy 9.3.4	The University shall maintain densities and intensities for the development of its campus (as established in Element 4, Future Land Use), including sites for infrastructure, academic, housing, and support space, which maximize permeable campus land and the retention and creation of meaningful open space.		x				
Objective 9.4	The University endorses a campus open space planning approach that envisions the entire campus as an ecologically appropriate “Campus as Arboretum/Botanical Garden.”						
Policy 9.4.1	The University shall expand the domain of the USF Botanical Garden to include all campus open space, with administrative functions centered at an expanded facility in the current location and priority expansion emphasis on documentation and enhancement of the Greenway as Campus Arboretum.		x				
Policy 9.4.2	In recognition of the value of trees to the campus the University shall initiate measures to protect, manage, and increase the number of trees and quality of the campus tree stock. (See Element 8, Conservation.)		x				
Objective9.5	Preserve and protect the USF Forest Preserve as a unique and irreplaceable reserve of undeveloped native woodland contiguous with the Hillsborough River wetland corridor.						
Policy 9.5.1	The University shall preserve and protect the USF Forest Preserve as a unique and irreplaceable natural resource for teaching and research. (See Figure 9-4, 10 Year Campus Greenway and USF Forest Preserve and 2010 Data Collection and Analysis Report, Appendix H, USF Forest Preserve.)		x				
Policy 9.5.2	Storage and non-vehicle trip generating support space related to the USF Forest Preserve shall be allowed at The Claw golf course and Riverfront Park only.		x				

Objective 9.6	Coordinate with the host communities to promote provision of adequate recreation and open space off-campus to serve the community living in the context area and to ensure continuity of campus open space resources within the larger regional open space system.						
Policy 9.6.1	The University shall establish a procedure and assign responsibility for regularly scheduled coordination meetings with the City of Tampa, City of Temple Terrace, and Hillsborough County Parks and Recreation Departments relative to the provision of recreational facilities. The University shall pursue inter-local agreements or memoranda of understanding that may be necessary to ensure that parks and recreational facilities will be available to meet the future needs of the University.						this is still an established procedure and is correct as written - EH

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Element 10: Intergovernmental Coordination

Goal 1: The Intergovernmental Coordination goal of the Tampa Campus Master Plan is to achieve the goals, objectives and policies of the campus master plan through the use of joint processes for collaborative planning, decision making, and coordinating growth and development with local agencies and governmental entities.

Objectives & Policies		Status			Current Condition	Delete?	Comments/Problems/Recommendations
		Complete	Ongoing	Not Implemented			
Objective 10.1	Establish a process for the reciprocal review by University and local government officials of growth management plans, campus master plans, and plan amendments.						revise terminology "maintain"
Policy 10.1.1	The University shall continue to work with the Cities of Tampa and Temple Terrace, and Hillsborough County to implement procedures allowing the University—through the Office and Facilities Planning and Construction—to review and comment on proposed amendments to local government comprehensive plans which:						
	• Have the effect of changing land uses or policies that guide the development of land within the designated context area surrounding the University		x				no change recommended
	• Affect the provision of local service		x				no change recommended
	• Otherwise impact University facilities and resources.		x				no change recommended
Policy 10.1.2	Proposed amendments to the adopted campus master plan which exceed the thresholds established in s. 1013.30(9), F.S., shall be transmitted to the appropriate local, regional and state agencies for review in accordance with the procedures established in Chapter 21.108-21.110, Florida Administrative Code.		x				threshold has not been exceeded
Policy 10.1.3	Proposed amendments to the adopted campus master plan which do not exceed the thresholds established in s. 1013.30(9), F.S., and which have the effect changing land use designations or classifications, or impacting public facilities, services or natural resources, shall be transmitted to the host and affected local governments for a courtesy review.		x				no change recommended

Policy 10.1.4	University planning officials shall meet with officials from the City of Tampa, City of Temple Terrace, and Hillsborough County on a regular (at least annual) basis, or as required for the purpose of coordinating planning activities. Other local, regional, state and federal agencies shall be invited to participate in these meetings as appropriate.		x				no change recommended
Policy 10.1.5	Disputes between the University and a local government shall be resolved by the process established in s. 1013.30(8), F.S.		x				review 1013.30(8)
	new policy fpc receive from city - notices						review wording for internal
Objective 10.2	Continue reciprocal development review processes that assess the impacts of proposed campus development on significant local, regional and state resources and facilities, and assess the impacts of off-campus development of University resources and facilities.						
Policy 10.2.1	Continue to work with the Cities of Tampa and Temple Terrace, Hillsborough County, and other pertinent agencies, to ensure that Comprehensive Plan amendments and rezoning requests within the designated context area, which have the potential to impact or affect University facilities and resources, shall be transmitted to the University's Director of Facilities Planning and Construction for review and input to the City Council.						no change recommended
Policy 10.2.2	The University's Director of Facilities Planning and Construction shall periodically meet with City and County officials to review and refine the criteria and thresholds for development proposals which would be subject to review by the University. The University shall adhere to development thresholds, developed in cooperation with City and County officials, which allow for both to review significant development proposals within the context area. Established thresholds for review will allow for exceptions to the review process for development proposals which are mutually agreed to be not significant.						no change recommended
Policy 10.2.3	Upon receipt of an application for a development order proposed for the context area, the University's Director of Facilities Planning and Construction shall assess the potential impacts of the proposed development on University facilities and resources. Findings shall be remitted in writing to the appropriate local government.						no change recommended

Policy 10.2.4	When it has been determined that proposed development on campus would have an adverse impact on local services, facilities or natural resources, University officials will participate and cooperate with respective City and County officials in the identification of appropriate strategies to mitigate the impacts.						no change recommended
Policy 10.2.5	and cooperate with respective City and County officials in the identification of appropriate strategies to mitigate the impacts.						finish typing
Policy 10.2.6	Any dispute between the University and any host or affected local government regarding the assessment or mitigation of impacts shall be resolved in accordance with the process established in s. 1013.30(8), F.S.						no change recommended, review 1013.30 (8)
Policy 10.2.7	All campus development may proceed without further review by the host local government if it is consistent with the Campus Development Agreement and the adopted campus master plan.						reword into policy statement
Policy 10.2.8	Once the University pays its "fair share" and annually reports construction of capital improvements, as identified in the Campus Development Agreement, all concurrency management responsibilities of the University are deemed to be fulfilled.						reword into policy statement
Objective 10.3	Increase ongoing coordination between the University and public agencies to create a better community and environment.						
Policy 10.3.1	The University shall work with host community agencies and organizations as described in Element 6, Housing, Policy 6.4.1, to coordinate, improve, and increase the availability of safe, diverse, affordable housing in the USF area to serve the needs of its students, faculty, and employees.						review
Policy 10.3.2	USF is within the City of Tampa service area and has experienced effective and efficient provision of fire, rescue, and emergency medical services. Existing systems shall remain in effect.						reword into policy statement - varify chapter 21
Policy 10.3.3	The University shall continue to coordinate with the City of Tampa, City of Temple Terrace, and Hillsborough County in support of the use of CMAQ and Tea3 (formerly ISTEA and TEA-21) funds for USF area projects that coordinate and facilitate the safe use of bicycles and reduce automobile impacts on the area.						no change recommended

Policy 10.3.4	The University shall continue to cooperate with the appropriate entities in the evaluation of traffic impact on adjacent roadways and endeavor to mitigate impact through increased on-campus housing, improved transit service, and other mitigation techniques described in Element 5, Transportation. The University shall participate in the planning of improvements to Fletcher Boulevard, Bruce B. Downs Boulevard and 50th Street, to ensure that adequate pedestrian and bicycle facilities are incorporated.						no change recommended
Policy 10.3.5	The University shall continue to work with the Hillsborough Area Regional Transit (HART) to promote bus transit and possible future alternative transit mode ridership by disseminating information at the time of registration, through target mailings, and at appropriate locations and events on and off-campus. Strategically placed bus stop shelters will continue to be installed to increase convenience of service.						refer to element 5 and chapter 21
Policy 10.3.6	The University shall continue to work with the Tampa Bay Area Regional Transportation Authority (TBARTA) to establish a Preliminary Plan for a light rail stop(s) serving the University campus, medical facilities, and the Research and Development Park.						refer to element 5 and chapter 21
Policy 10.3.7	The University shall continue to develop and implement the Master Stormwater Management System and associated permits, and produce a technical design standards manual for new systems to ensure adequate level of service and ease of maintenance.						refer to element 7 and chapter 21
Policy 10.3.8	The University shall continue operating its own water system for the Academic core while working closely with the City of Tampa to ensure that adequate supply is available to the University's perimeter users. Close involvement with regulatory agencies must also continue to ensure that health, safety and quantity issues are addressed.						refer to element 7 and chapter 21
Policy 10.3.9	The University shall continue with the regulatory process of Hillsborough County Environmental Protection Commission (HCEPC) to ensure that State sanitary codes are met. Also, the University shall meter its utility upgrade so accurate flow data can be generated and used for service needs and future projections.						refer to element 7 and chapter 21

Policy 10.3.10	As long as it remains economically feasible, the University shall continue to self transport its dry wastes to the Hillsborough County incinerator and use franchise services for all other organic and recyclable wastes.						refer to element 7 and chapter 21
Policy 10.3.11	The University shall maintain and periodically update its Emergency Operations Plan in coordination with Hillsborough County Emergency Management Operations (EMO), the American Red Cross, and the host communities. The plan shall identify the extent to which University buildings can, and will, be used to provide shelter for students, faculty, staff, and the general public, and will designate suitable campus open spaces for use as staging areas for emergency supplies, equipment, and resources.						no change recommended
Policy 10.3.12	The information prepared through the implementation of Policy10.3.11 shall be made available each year to the Hillsborough County EMO for inclusion in local emergency management plans.						no change recommended
Policy 10.3.13	The University shall continue to coordinate with the City of Tampa, Hillsborough County, and the City of Temple Terrace, to achieve an appropriate integration of the campus recreation and open space resources into the larger regional open space system, and to ensure that an adequate provision of recreation of open space is available through the 10-year planning horizon to serve the campus and off-campus communities.						refer to element 9 and chapter 21

Policy 10.3.14	The University shall coordinate with the Department of State, Division of Historical Resources, prior to any land clearing or ground-disturbing activities that may impact sites identified as significant in the University archaeological survey, and prior to any alteration or demolition affecting historic structures on campus. While it has been determined that no significant archaeological resource remain within the boundaries of the main Tampa campus, there is a significant prehistoric mound site located north of Fletcher Avenue, in the Ecological Research Area. In addition, many standing structures on the campus will reach 50 years of age during the timeframe of the 2010 Campus Master Plan. In respect of the possibility that such a building may come under consideration for demolition, renovation, or addition, the University will endeavor to assess such building for its historical and architectural significance prior to a building's reaching 50 years of age. The assessment will be conducted by a qualified architectural historian (Secretary of the Interior's Professional Qualification Standards (36 CFR 61)).						revise wording, change from Ecological research area to "USF Forest Preserve"

2015-2025 USF - Tampa Campus Master Plan Update
Evaluation and Appraisal Report

Element 11: Capital Improvements

Goal 1: Provide educational, research and support facilities to all enrolled students, faculty staff and community partnerships, in a manner that protects the investment and maximizes the use of existing facilities and promotes orderly, planned sustainable campus development.

Objectives & Policies		Status			Current Condition	Delete?	Comments/Problems/Recommendations
		Complete	Ongoing	Not Implemented			
Objective 11.1	The University shall, through the coordination of land use decisions and available projected fiscal resources, provide a schedule of capital improvements to maintain the levels of service established in the master plan and to address the existing and projected facilities needs.						
Policy 11.1.1	The University, in cooperation with the Florida Board of Governors and in conformance with criteria established in Policy 14.1.3, shall schedule and fund capital improvements identified in Table 11-1, 10 Year Capital Improvements Schedule and Table 11-2 2011-2012 Five Year Capital Improvement Program (CIP2).		x				revise - refer to current - website
Policy 11.1.2	The University shall evaluate, rank and revise the order of priority as required for facilities and projects identified in Table 11-2, 2011-2012 Five Year Capital Improvement Plan (CIP2) and Legislative Budget Request (2011-2012 through 2015-2016), approved by USF Board of Trustees January 6, 2011. (See Element 4, Future Land Use, Policy 4.1.5.)						revise - refer to current - website
Policy 11.1.3	The University shall adopt the following criteria to evaluate and prioritize capital improvement projects related to the individual elements of the master plan:						
	strategic mission and strategic plan						new
	• University budget impact and financial feasibility						
	• The elimination of existing capacity deficits						
	• Locational and programmatic needs based on projected student enrollment increases						
	• The accommodation of expansion and improvement demands						
	• Related benefits/detriments to adjacent campus development of site areas						
	• Life cycle costs of the project						
	• Plans and priorities based on funding availability.						

Objective 11.2	To provide the needed improvements identified in the other elements and manage the expansion or improvement process so that facility needs do not exceed the ability of the University to fund and provide the needed capital improvements, including initial construction costs, ongoing operation and maintenance costs and impact costs.						revise wording
Policy 11.2.1	The University shall base the coordination of land use decisions associated with the implementation of capital improvements upon the development requirements of this Master Plan, the development agreements called for by this Plan and the availability of resources necessary for implementing required supporting facilities at the time needed of proposed capital improvement/development.						revise wording
Policy 11.2.2	The University shall make provisions for programming the budget for future facility development to consider the cost of the site improvements, utility extensions and associated easements, parking, traffic, pedestrian and bicycle circulation improvements, and operation and maintenance, necessary for the proper function of the individual facility and, to the extent funding levels allow, to include the cost of facilities necessary to support future capacity requirements.						revise wording
Policy 11.2.3	The University shall make provisions for the adoption of the capital budget as part of the annual budgeting process and will include provisions which are consistent with the campus development agreement resulting from the adopted Master Plan.						no change recommended
Policy 11.2.4	The University shall apply the level of service standards adopted as part of the Design and Construction Guidelines, http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html, in implementing the capital improvements identified in this Campus Master Plan.						no change recommended
Policy 11.2.5	The University shall ensure that future facility costs and programming efforts include consideration of the following:						remove "future", review chapter 21; nsolidate with 2.6 and
	• Site improvements						
	• Utility extension and easements						
	• Parking needs and traffic, pedestrian, and bicycle circulation improvements						
	• Life cycle cost/benefits related to these site elements						
	• Compliance with applicable policies and standards.						

Policy 11.2.6	The University shall adhere to sound fiscal policies, including life cycle cost/benefit assessment, in providing the capital improvements of this campus master plan and shall proceed with new capital improvements, expansions or replacements based upon the identification and commitment of adequate funding and resources for design, implementation, operation, and maintenance.						consolidate with 2.2 and 2.5
Policy 11.2.7	The University shall increase sustainable construction practices by incorporating the USGBC LEED certification process in the USF Design and Construction Guideline requirements.						revise to make "action" or delete
Objective 11.3	To use the Capital Improvements Element as a means to meet the needs of the University for the construction of capital facilities to correct existing deficiencies, accommodate desired future growth, and replace exhausted or obsolete facilities.						
Policy 11.3.1	The University shall make provisions for the replacement and renewal of capital facilities when it is determined that the building facility, site element or infrastructure, including transportation facility (road, walk, bikeway) or utility line, is nearing the end of its useful life.				create new first policy regarding condition assestment and renuml		
Policy 11.3.2	The University shall prohibit construction of academic and research buildings less than the minimum heights established in Element 4, Future Land Use, and in separate documentation found in USF Design and Construction Guidelines, except by special approval from the President. (For more detailed architectural requirements and guidelines see the USF Design and Construction Guidelines, http://usfweb2.usf.edu/FacilitiesPlan/process/guidelines.html).						consider reference note in lieu of policy
Policy 11.3.3	The University shall discourage and limit the renovation of existing buildings that are two stories or less in height, except for reasons of preservation of buildings designated as historic resources or by special approval from the President for health and safety reasons. Building two stories or less in height are less efficient and not in keeping with the Master Plan objective of increasing F.A.R. campus density in order to reduce impermeable surface, concentrate activity, and gain efficiencies in land and energy use. For these reasons, with the exception of buildings of historic significance, the 2010 Campus Master Plan recommends buildings two stories or less be phased out.						revise wording, insure repeats in element 4

Policy 11.3.4	The University shall continue to adhere to existing capital improvement programming procedures and shall update this master plan, as needed, to revise the Capital Improvement Program priorities established in the Five-Year Capital Improvements Schedule.						the most current CIP is the one that stands