

Mt. San Antonio College Master Plan Update 2005

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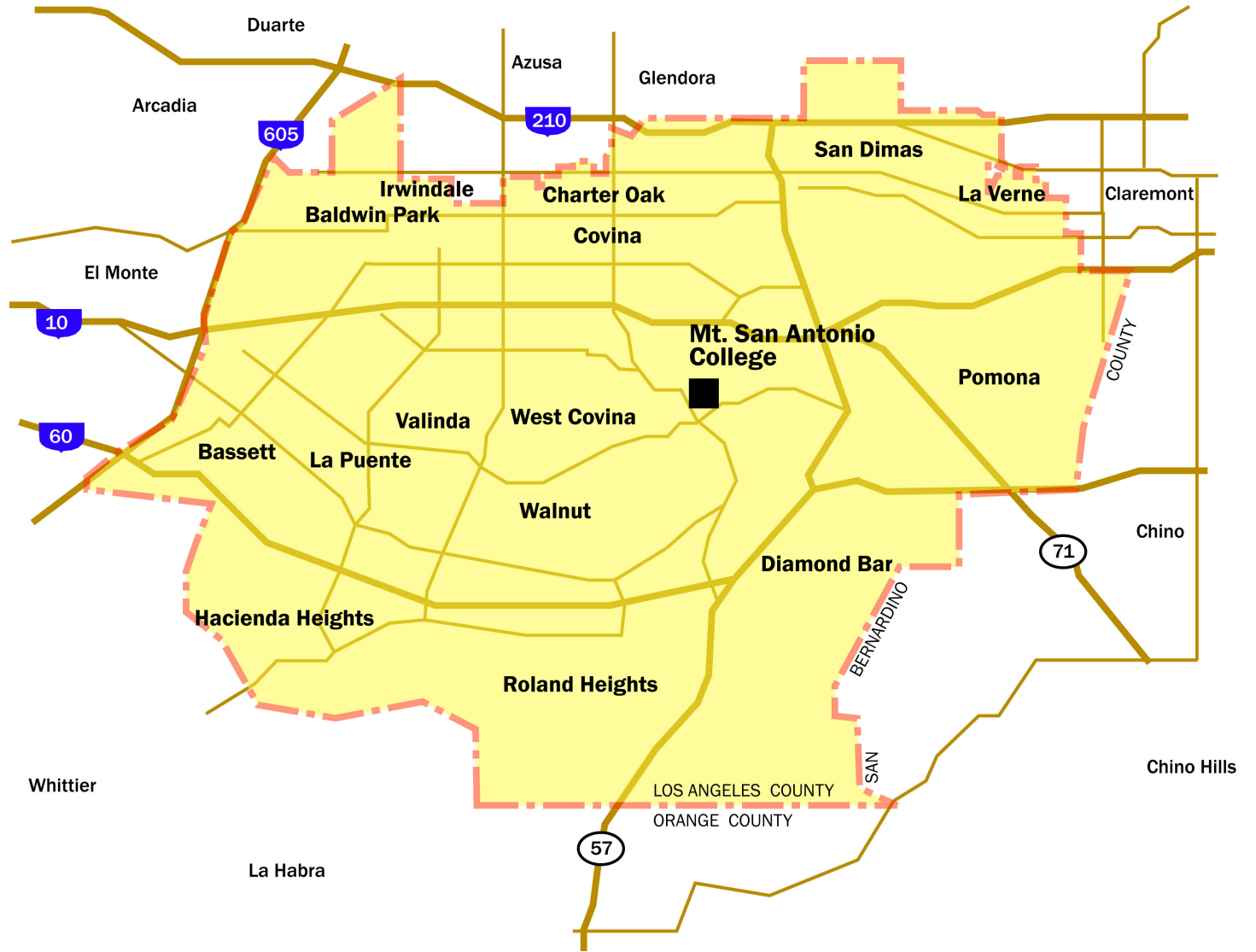
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MT. SAC PRIMARY SERVICE AREAS

 Mt. San Antonio Community College District (MSACCD)



INTRODUCTION MASTER PLAN 2005

“Remember, Restore, Renew” was the campaign theme that led to the passage of the \$221 million Measure R Bond by the voters of the Mt. San Antonio Community College District in November of 2001. The bond funds were needed to address an array of campus physical needs that were increasingly impacting the effective delivery of community college education to the people of the East San Gabriel and Pomona-Walnut Valleys. These campus physical needs centered on the need to develop replacement facilities for the deteriorated and functionally inadequate World War II military hospital facilities that formed a major part of the Mt. SAC campus. Additionally, in its 55-year history, Mt. SAC had grown to be the largest single-campus community college district in the State of California and was turning away students as the district population continued to grow – a local reflection of the bulge of ‘tidal wave II’ students entering colleges countrywide.

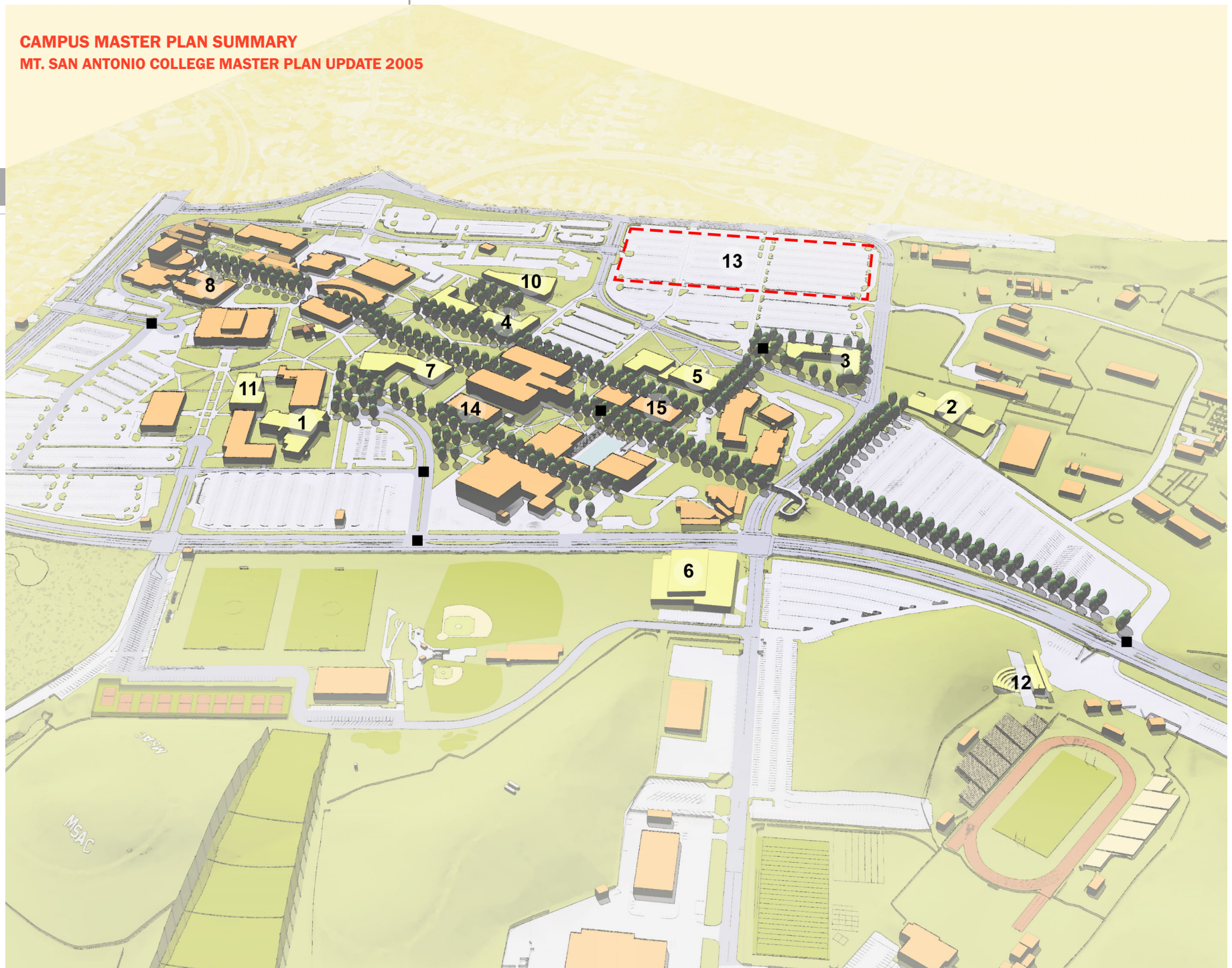
With the passage of Measure R, which defined several facilities to be built with the bond funds, a campus master plan was rap-

idly developed in order to locate the new facilities on the campus and, at the same time, to identify the phased removal of the aging inadequate facilities. In accordance with school construction bond funding mechanisms, an outside construction management company, Bovis Lend Lease, was retained by the District to administer the bond construction program, expected to extend over a nine-year period. In 2002 and 2003, a series of events, including the naming of Christopher O’Hearn as the seventh President of Mt. San Antonio College, the addition of new key administrative staff and State budgetary cutbacks, coalesced to call for a reevaluation of the size and timing of several of the Measure R projects and for a reconfiguration of the campus Master Plan to better accommodate the projects and improvements associated with the Measure R bonds. In 2004, Mt. SAC leadership asked a team of consultants led by AC Martin Partners to work with the campus to reevaluate and reconfigure several of the Measure R projects and the campus Master Plan. The Mt. SAC Master Plan Update 2005, contained in this document, is a result of that work.



CAMPUS MASTER PLAN SUMMARY
MT. SAN ANTONIO COLLEGE MASTER PLAN UPDATE 2005

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PROJECT LIST & DESCRIPTIONS

The Campus Plan is summarized on this and facing pages. The major long-term capital projects that represent the major anticipated improvements to the Mt. SAC campus are identified along with their projected funding sources and, where appropriate, their size in terms of both Assignable Square Feet (ASF) and Gross Square Feet (GSF). Most projects contained in the Master Plan Update 2005 were identified in the 2002 Master Plan that led to the passage of Measure R, making construction bonds available to the Mt. SAC Community College District. Several of the Measure R projects have been modified as a result of the Master Plan 2005 Update process – as well as from ongoing discussions within the College and District – in an attempt to balance the cost effectiveness of bond funds, State funding priorities and campus needs. Several projects are projected to be built through a combination of state and local Mt. San Antonio Community College District funds.

A number of projects such as roadway, pathway, landscape, access and signage improvements are more specifically identified and described in other sections of the Master Plan Update 2005; many falling under the funding category of Campus-Wide Infrastructure. Campus utility plans were being developed by engineering firms under contract to the MSACCD and are to support the buildings and facilities identified in the Master Plan Update. Finally, the Parking

Long Term Campus Projects

	Project	Funding Source (s)	Estimated ASF	Estimated GSF	Projected Occupancy
1	South Science Laboratory [1]	MSACCD/CCC	43,356	66,702	8/2006
2	Agricultural Sciences Complex [5] (Main facility only)	MSACCD/CCC	25,776	39,655	7/2007
3	Child Development Center/Early Childhood Learning Lab [6]	MSACCD	12,000	20,250	7/2007
4	Business and Computer Technology Center [8,9]	MSACCD	27,500	42,308	10/2009
5	Design Technology Center [10] (Includes 400 Person Assembly Space)	MSACCD/CCC	47,571	73,186	8/2009
6	Gymnasium [11] (Net new space approx. 10,000 GSF)	MSACCD	NA	43,000	1/2008
7	Campus Center [12]	MSACCD	33,520	48,227	12/2010
8	Music Expansion [17g]	MSACCD	3,583	5,376	5/2006
9	Off-Campus Learning Centers [4]	MSACCD	NA	2@ 20,000	8/2009
10	Community Education Facility (CEF)	MSACCD	18,000	27,692	2015
11	North Sciences /Math [17i]	MSACCD	33,900	45,200	1/2008
12	Heritage Hall	Private Donors/ MSACCD	3,250	5,000	2010
13	Parking Structure (2,250 Spaces)	MSACCD	NA	910,000	2011-2025
14	Future Class/Lab Building	TBD	16,900	26,000	TBD
15	Future Class/ Lab Building	TBD	16,250	25,000	TBD
■	[17e – Campus Wide Infrastructure] (Grounds, Landscape, Open Space Projects, Circulation System and Transportation Improvements)	MSACCD			2005-2010

Structure project is a new large initiative that will require additional study as the campus grows. It would by nature rely upon MSACCD funding.

Other summary information is contained in the Phasing Plan and Planned Projects sections below.

Notes:

- [] Original Measure R Project Number Indicated in Brackets
- CCC California Community Colleges
- MSACCD Mt. San Antonio Community College District
- ASF Assignable Square Feet
- GSF Gross Square Feet
- TBD To Be Determined
- NA Not Available

LAND USE PLAN

-  Campus Core
-  Academic Facilities
-  Student & Campus Support
-  Community & Public Oriented
-  Physical Education & Athletics
-  Agriculture Program
-  Non-Campus Programs/Lease
-  Backbone Open Space & Pedestrian Pathways
-  Special Purpose Open Space
-  Asset Management/General Open Space/Long-Term Use To Be Determined
-  Vehicular Circulation System
-  Parking
-  Property Line



LAND USE PLAN

The Mt. SAC Land Use Plan supports a number of functional and aesthetic goals that are reiterated here and elsewhere in the Master Plan Update. Importantly, all non-physical education and non-agriculture campus academic facilities are all located within the campus core area. This core area is separate from the perimeter areas where parking, vehicular circulation and major maintenance facilities are located. This core area is where pedestrian student-oriented activities are concentrated. The aesthetic experience of the core campus is supported by handsome landscaping, human scaled buildings, pathways and other features that enhance the learning experience for students while creating a pleasant working environment for faculty and staff.

As a general conceptualization of the campus, the next 'ring' of land use outside the core area is devoted to parking and primary vehicular circulation (see also page 11) with physical education and agricultural areas lying beyond that. Finally, the areas furthest from the campus core, especially those perimeter areas to the northeast, south and southwest, are open spaces composed of hilly terrain which are essentially held in reserve for potential future more intensive use as the campus develops over time. These areas are categorized as Asset Management and are currently in part used by various










campus groups for such activities as cross country running and livestock grazing. The 2005 Master Plan Update has identified one new area of potential surface parking to the south near the terminus of Bonita Drive that utilizes part of the area considered as Asset Management.

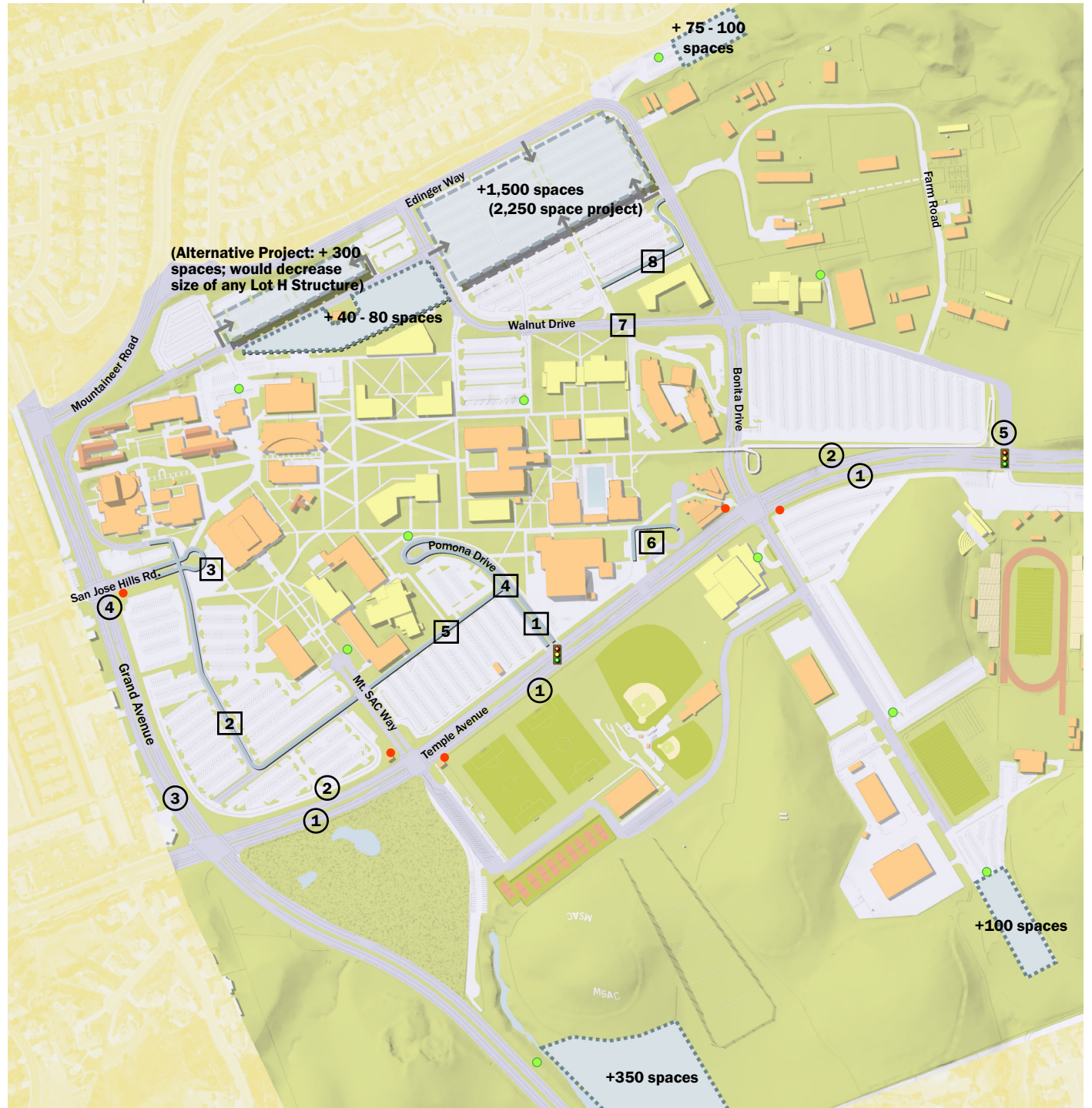
As part of the Master Plan update process, an analysis was made of the 2002 Master Plan, which is documented in the Appendix. The current and planned Physical Education Division programs are located in three to four geographically separate areas: the Gym (Bldg. 3), the Wellness/Pool Complex/Buildings, the south fields area and the Hilmer Lodge Stadium. The 2005 Master Plan Update moves towards a consolidation of these areas by replacing the existing Gym with a new Gym on a site south of Temple Avenue and east of the new soccer and baseball fields—placing it in a central location with respect to the all of the P.E. fields and facilities.

An analysis was made of the Asset Management areas held by the campus to identify a potential location for a Fire Science Training facility where live fire training could be conducted. Four potential sites were identified and evaluated for their suitability based on the following criteria: needed size, workable topography and appropriate distance from

surrounding residential areas. The sites included the southern end of Bonita Drive/hammer throw area, a site at the south campus edge east of Grand, a site at the northeast edge of the campus and a site northeast of the Stadium south of Temple Avenue. The initial evaluation identified multiple challenges associated with the sites suggesting further study is needed before any determination of the feasibility for this type of facility at Mt. SAC can be made.

CIRCULATION / PARKING PLAN

-  **Primary Circulation Improvement**
(see insets A, B & C for Details)
-  **Proposed New Traffic Signals**
-  **Other Proposed Circulation Improvements** (see text)
-  **2002 EIR Circulation Related Improvement** (see text)
-  **Potential Parking Structure Location**
-  **Parking Structure Entrance**
-  **Expanded and/or Improved Surface Parking**
(net gain indicated)
-  **Existing Bus Stops**
-  **Existing and Proposed Van/Shuttle Stops**



CIRCULATION / PARKING PLAN

Circulation

The 2005 Master Plan proposes four significant modifications to the basic vehicular circulation pattern intended to increase the overall functionality of the system while, at the same time, enhancing the visual/aesthetic appeal to focused areas of the campus. Several improvements to the public roadways that surround the campus were identified in the Final Environmental Impact Report (EIR) prepared in conjunction with the 2002 Master Plan, were reevaluated as part of the Master Plan Update effort, and were reconfirmed as appropriate measures needed to mitigate the traffic-related impacts associated with long-term campus growth (See Appendix) . A description of the proposed circulation improvements is summarized here.

Master Plan Recommended Circulation Improvements

- 1. Additional Pomona Drive/Temple Avenue Campus Entry and Roadway** – A new campus entry and roadway is proposed along Temple Avenue east of the Mt. SAC Way entrance midway towards Bonita Drive. As envisioned, this two-way facility with landscaped median would provide a new drop-off point immediately south of the planned Campus Center, and would further link existing and planned parking lots east of Mt. SAC way. A new traffic signal would be required to control/enhance access along Temple.
- 2. Parking Lot B Circulator** – A central vehicular circulator connecting a reconfigured Grand Avenue campus entrance to Mt. SAC Way – and by extension to the new Temple campus entrance – is proposed. This facility

ID	2002 Environmental Impact Report (EIR) Proposed Circulation Improvements and Traffic Mitigation Measures ¹
1	Convert Right-Turn Lanes into Shared Through/Right-Turn Lanes along Eastbound Temple Avenue at Mt. SAC Way, Bonita Drive and at the Lot F/East Campus Access Drive.
2	Convert Right-Turn Lanes into Through/Right-Turn Lanes along Westbound Temple Avenue at Grand Avenue, Mt. SAC Way, Bonita Drive and at the Lot F/East Campus Access Drive; Remove On-Street Parking.
3	Convert Right-Turn Lanes into Shared Through/Right-Turn Lanes along Southbound Grand Avenue; Add Third Through Lane Northbound and Eastbound at Grand Avenue and Temple Avenue.
4	Add Right-Turn Lane to Eastbound San Jose Hills Road.
5	Install Traffic Signal when Warranted; Southbound: Widen Driveway to Provide Shared Through/Left Turn Lane and One Right-Turn Lane.
ID	Master Plan Update 2005 Proposed Circulation Improvements ¹
1	New Campus Pomona Drive/Temple Entrance and Roadway. Divided Entry Street with Median and Traffic Signal when Warranted. (See text.)
2	Improved Parking Lot B Circulator. (See text.)
3	New Turn Around and Simplified Campus Loop Road Connection at Grand Avenue/San Jose Hill Road (See text.)
4	Potential Traffic Circle for Traffic Control at Pomona Drive and Connector Road.
5	Widen Pomona – Mt. SAC Way Connector Road.
6	Pedestrian Drop-Off Area Loop to Serve Wellness-Pool Complex. Limited Staff and Americans with Disabilities (ADA) Parking Facilities.
7	4-Way Stop with Crosswalks and Potentially with Flashers.
8	Child Development Center (CDC) Roadway/Drop-Off and Parking facility. (See text.)

Notes:

- 1 Additional improvements are proposed for areas outside bounds of map. See also Appendix E.

is intended to better link the B and D lots as well as the internal circulation between the Grand and Temple campus entries.

3. Grand Avenue Entry Improvements. An improved connection between the internal circulation road coming south from La Puente Drive along the Performing Arts Center frontage and the proposed Parking Lot B Circulator would permit a smooth flow of internal campus traffic while providing a distinct west campus drop-off point and a more effective location for the visitors information booth.

4. East Campus Entry. The 2002 Master Plan had proposed an enhanced east campus entry (East Lot F) in the location of the existing entrance but, in the long-term, augmented with a traffic signal to allow better access off of Temple for both west-bound and east-bound traffic. The new proposed east entrance configuration would include a traffic signal when warranted, dedicated right turn-out and through left turn-out lanes, and an interconnection with the extended campus pedestrian 'Miracle Mile' spine.



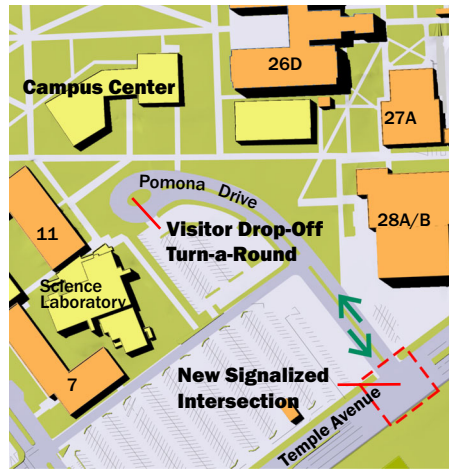
Parking

Based on a revised growth assumption for the campus (See **Basis for the Plan: Projected Mt. SAC Growth** Section below) and, upon new proposed improvements that would affect some existing surface parking lots, a new post-2002 Master Plan analysis was made of projected future parking demand to compare it with the potential for meeting the demand with campus parking supply. (The growth assumptions did assume a 5 percent off-site credit for distance learning and some provision of campus FTES in the proposed Off-Campus Learning Centers Measure R projects). In summary, it was found that, at a projected headcount campus enrollment of 46,000 students potentially occurring around the year 2020, a total parking supply of over 9,300 spaces would be needed. At the same time, assuming the future planned

surface parking configuration with proposed campus improvements – including minor reductions in surface parking in some areas with some expansions of surface parking in other areas – only approximately 7,800 spaces would be available. This potential shortfall of some 1,500 spaces, if provided for on campus, could only be provided for in some type of structured parking scenario. Since any proposed structure would likely be built upon an existing parking lot, a larger structure(s) than the 1,500 net space number would be required. A new three-level parking structure, accommodating a total of 2,250 spaces, is therefore estimated here as the parking structure solution to Mt. SAC's future parking need. Some reductions in the need for such a future structure could be realized through a combination of increased student/faculty/staff use of alternative transportation modes, shifting of main campus demand to decentralized community facilities, class scheduling shifts and/or increased distance learning.

As noted on the exhibit on page 10, a smaller 300-space structure could be built on Lot A as a first phase which would lessen the needed size for a structure on Lot H to about 1,200 net spaces.

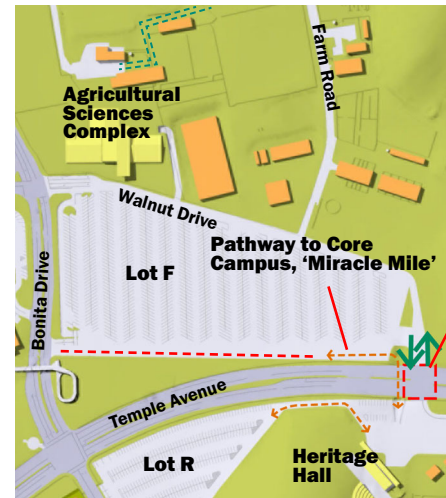
[Numbers correspond to text entries on pages 11 and 12]



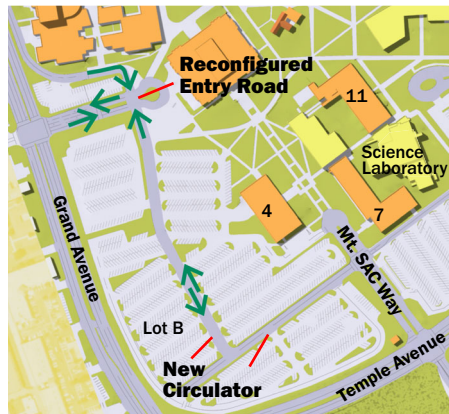
1. Additional Campus Temple Entrance/Roadway



Improvements Associated with the Child Development Center (CDC)







4. East Campus Entrance Area Improvements



2/3. Parking Lot B Circulator/Grand Avenue

CIRCULATION AND OPEN SPACE PLAN

-  **Miracle Mile**
-  **Primary Core Pathways**
-  **Cross Walk**
-  **Major Pedestrian Oriented Open Spaces**



PEDESTRIAN CIRCULATION

An overriding goal of the Mt. SAC Master Plan is to create and support a pedestrian-oriented campus: one that promotes efficient access to campus facilities, human interaction, student learning and appreciation of the aesthetic environment. The conceptual structure of the pedestrian circulation system is illustrated on the diagram below and on the accompanying Pedestrian Circulation and Access Plan. The important factors that lead to the creation of a rational pedestrian circulation system on the Mt. SAC campus include topography, distance of movement within the core campus and ease of access from peripheral parking and public transportation to campus facilities (as indicated by flow arrows in the Pedestrian Plan Concept diagram).

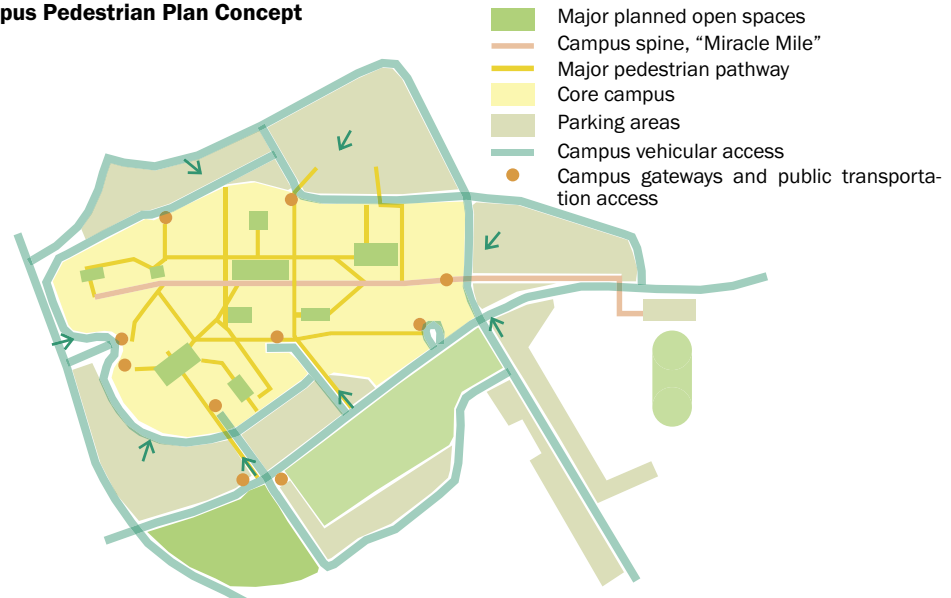


Pedestrian Pathways

A primary concept of the Master Plan Update is to build upon the Miracle Mile concept by creating additional east-west pedestrian pathways that cross the campus along generally level traverses. Lateral north-south pathways connect with the main east west pathways forming a grid-like network that in turn interconnects with all major campus

buildings and open spaces. The landscape and lighting plans further reinforce these pedestrian pathway systems. The concept landscape plan demarcates the paths with trees that provide shade in the summer and sunlight in the winter. The conceptual lighting plan (See pages 22 and 23) provides pedestrian scaled lighting fixtures and accent lights focused on important buildings and landscape features of Mt. SAC.

Campus Pedestrian Plan Concept





Promenades With the development of the Mt. SAC campus, three principal east-west pedestrian walks will link the campus including the central 'Miracle Mile'. The promenades are marked by a wider walking surface flanked by large deciduous trees.

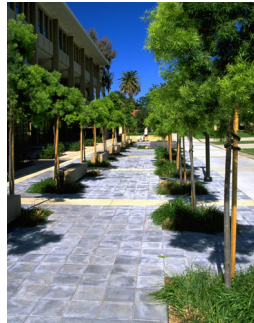


Photo Credit: SWA Group

Cross-Axes The cross-axes linking the campus in the north-south direction typically are 15' wide and flanked by a different species than the Promenades.

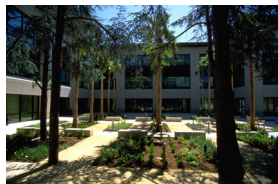


Photo Credit: SWA Group



Courtyards Courtyards created by building edges further defined and reinforced by tree plantings, typified by opportunities for student interaction, study and shade.



Parking Areas (above) Parking areas to be softened and provided with shade through the planting of drifts of London Plane and other trees.



Campus Edges (at left) Current campus edges with primary public exposure to be further strengthened by in-fill of a combination of Fortnight Lily, Carpet Rose and stone cobbles to soften the view of parking areas.

Zones 1-5/Existing Campus Trees Conserve in place and relocate healthy and mature specimens while allowing for transition plantings to achieve planting goals within each Major Landscape Character Zone 1-5.

Framework Tree and Plant Species

Major Landscape Character Zone	Key Species (Botanical Name)	Key Species (Common Name)
Zone 1: Campus Promenades and Miracle Mile		
	Tipuana tipu	Tipu Tree
	Ulmus parviflora	Evergreen Elm
	Podocarpus gracilior	Fern Pine
	Zelkova serrata	Sawleaf Zelkova
Zone 2: Campus Courtyards		
	Eucalyptus nicholii	Willow-Leafed Peppermint
	Pyrus kawakamii	Evergreen Pear
	Agonis flexuosa	Peppermint Tree
	Lagerstroemia indica	Crape Myrtle
	Koelreuteria bipinnata	Chinese Lantern Tree
	Geijera parvifolia	Australian Willow
	Podocarpus gracilior	Fern Pine
	Albizia julibrissin	Silk Tree
	Pistacia chinensis	Pistache Tree
Zone 3: Cross-Axes		
	Pyrus kawakamii	Evergreen Pear
	Liriodendron tulipifera	Tulip Tree
	Tristania conferta	Boxwood
Zone 4: Parking (Upper and Lower Area)		
	Platanus acerifolia	London Plane
	Podocarpus gracilior	Fern Pine
	Ulmus parviflora	Evergreen Elm
Zone 5: Campus Edge		
	Arecastrum romanzoffianum	Queen Palm (existing)
	Dietes bicolor	Fortnight Lily (2' shrub)
	Rosa floribunda 'White Carpet'	Carpet Rose (1' groundcover)
	Cobble	Hardscape cover

LANDSCAPE PLAN

The Landscape Concept

The primary intent of the landscape and open space concept for Mt. San Antonio College is to support the creation of a safe and rewarding learning environment. A major way that this can be achieved is through the development of outdoor spaces that support student learning, student-to-student communication and student-to-faculty communication. The Landscape Concept Illustrative Plan, located on page 18, reinforces these objectives through a simplified framework of walkways, courtyards, trees and ground-plane plantings.

As an overall concept, the plan proposes a landscape that transitions in character from the natural surrounding hillsides to a more formal and lush campus core. Moving from the Walnut and grass-covered hillsides, the perimeter edge and parking areas are envisioned as informal areas where a mix of water-conserving plants and ground covers utilizing river rock stone, predominate. The campus core is envisioned as a more formal man-made environment: consisting of more lush, green groundplanes and trees, as well as selective hardscape areas incorporating the red brick used on most campus buildings.

Goals for the Landscape Plan

The Mt. SAC Landscape Plan seeks to organize, shade, simplify and define the outdoor campus environment into a functional, aesthetically pleasing and sustainable campus, as summarized below.

Organization

1. Unify the campus through a cohesive landscape character that is readable from the ground by the pedestrian.
2. Create a simplified framework of a few key tree species to help reinforce the creation of a well-defined pedestrian circulation system.
3. Maintain and enhance the notable existing specimen trees, which are valuable for their individual beauty and are used as part of the botany identification and education program.
4. Plant the groundplane with drought-tolerant species and large canopy trees to increase shade.
5. Combine service drives and pedestrian walks, where possible, to minimize walkway construction.
6. Organize and simplify walkways to address basic circulatory needs;
7. Visually frame campus courtyards and large lawn areas.

Shade

1. Add and reinforce shading opportunities to create outdoor environments for student interaction and study during warmer months.
2. Plant trees that will eventually grow into a large canopy in maturity.

Simplification

1. Reduce the number of campus plant species and landscape systems as a

way of visually simplifying and creating elegance while contributing to maintenance efficiency.

2. Organize and frame campus courtyards with a simplified walkway system.

Definition

1. Use trees to give scale to buildings, define open spaces and reinforce walkway courses.
2. Remove trees and other campus plant materials that are unhealthy, difficult to maintain, of an inappropriate scale and/or that negatively impact campus views.

Sustainability

1. Develop irrigation systems and campus plant material zones that contribute to maintenance efficiencies.
2. Use relatively easy-to-maintain ground covers and combinations of hardscape and trees to reduce maintenance costs in peripheral areas.
3. Create hydrozones in the campus such as stone mulch in parking areas, and drought-tolerant ground covers on slopes leading to the Campus Center.
4. Reduce maintenance needs in perimeter areas in order to focus maintenance attention on the campus core where needs are greater.
5. Use deciduous trees planted adjacent to building solar exposures to contribute to building energy efficiency.

**LANDSCAPE CONCEPT
ILLUSTRATIVE PLAN**

- 1** Zone 1, Promenade/Miracle Mile
- 2** Zone 2, Cross-Axis
- 3** Zone 3, Courtyards
- 4** Zone 4, Parking Areas
- 5** Zone 5, Campus Edges



The Landscape Characteristics of Campus Functional Areas

The Mt. SAC campus can be divided into a number of distinct functional areas and pathway systems that can be reinforced through the creation of corresponding areas of distinct landscape character. A listing of these major areas and their suggested characteristics follow below. Proposed landscape character areas would be implemented in a variety of ways: Targeted landscape projects for specific areas or campus districts; in conjunction with major academic building projects; or as general upgrade and 'retrofit' projects.

Promenade/Miracle Mile

1. Reflecting existing campus circulation, the Miracle Mile is a broad walk system that runs east-west and connects campus activity nodes both physically and visually (i.e., the quad, library and Campus Center).
2. Accommodates groups of pedestrians as well as light-duty maintenance trucks.
3. Flanked by regularly spaced Tipuana Tipu trees (pre-existing trees in the Music area to remain).

Cross-Axis

1. Circulation paths, secondary to the promenade, yet essential in connecting parking areas to the campus.
2. Enhanced with existing trees as well as flowering accent trees.
3. Informal and contrasting with the formality of the main promenade.
4. Incorporated into all-pedestrian pathways, the Americans with Disabilities

Act (ADA) accessibility is accommodated with pathway grading at five percent (5%) or less.

Courtyards

1. Individual and unique courtyards that differ from each other, depending upon the use of the adjacent building.
2. Utilize smaller, flowering, accent trees such as Flowering Pear.
3. Create gathering spaces and seating areas at perimeter of courtyards.
4. Create shaded environments for gathering opportunities.
5. Defined with grove plantings of trees or large expansive lawns.

Parking Areas

1. Informal masses of trees as inspired by the walnut groves on the adjacent hill-sides.
2. Use of 'diamond' planters in clusters in parking areas between spaces to create a substantial, well-defined tree mass.
3. Utilization of shade and drought tolerant/low maintenance trees.
4. Introduction of landscape planters beneath trees covered by stone cobble/decomposed granite to limit maintenance needs.

Campus Edges

1. Composed primarily of existing Queen Palms, the existing areas at the perimeter should be infilled with decorative low-maintenance low-maintenance shrubs/ground covers to form a definitive edge to the campus – reflecting the grassy character of the adjacent hill-sides.



Groundplane

1. Organize and simplify large lawn areas located at major courtyards, gathering spaces and along major pedestrian corridors.
2. Current extensive plantings of large shrubs require relatively high maintenance; the landscape concept goal is to limit pruning time through replacement with well-defined lower-growing ground-covers (See 'Plant Lists' in Appendix).

CONSERVATION PLAN

-  **Planted Campus Environment
Predominantly Exotic Plants**
-  **Significant Stands of Forest
Predominantly California Black
Walnut (*Juglens californica*)**
-  **Predominantly Native
Scrub Species**
-  **Mt. San Antonio College
Wildlife Sanctuary**
-  **Water Feature**
-  **Woods Memorial Walnut Grove**
-  **Structures with Historical
Significance to the College**



CAMPUS CONSERVATION

There are several ways that the Master Plan Update addresses the issues of sustainability, environmental stewardship and conservation of natural resources. Some Master Plan responses to these issues are highlighted in other sections of the Master Plan, such as the Landscape Plan and the Circulation and Open Space sections. The interest in preserving and working with Mt. SAC natural environment is addressed in this section.

Native Plants

The native walnut tree known as the Southern California Black Walnut (*Juglens californica*) grows in dense stands throughout the San Jose Hills/Walnut Valley and have given the City of Walnut its name. Major stands of these trees upon Mt. SAC controlled property are illustrated on the adjoining exhibit. Further, in 1986, the Mt. SAC Foundation named the stand of Black Walnuts west of the Stadium as the "Woods Memorial Walnut Grove" – the only then known grove of the species to be dedicated as such in California. It is the intent of the Master Plan Update 2005 to preserve the Mt. SAC Black Walnut trees to the extent possible. They are mainly concentrated on hillsides around the stadium area and those located to the extreme northeast part of the campus property. To help accomplish this, the College should develop a land management plan for the open space areas where the Black Walnuts and the animal species that depend on them are located. The plan should address campus practices



such as bovine grazing, related fencing activities and fire suppression measures that may impact survival of the Walnuts.

Wildlife Sanctuary

In 1964 Mt. San Antonio College created a 10-acre wildlife sanctuary and refuge on land south of Temple Avenue and east of Grand Avenue to serve as a place to preserve the natural habitat of the Walnut Valley area. The sanctuary includes stream, lake meadow and woodland environments and is used as a migratory and breeding area by several animals. A recent grant from the Ludwick Family Foundation is being used to upgrade both the natural aspects of the site and the opportunities for viewing and interpretation. This effort will include habitat restoration activities, the construction of an amphitheater, improved trails and new signs.

Botanical Specimens

The Mt. SAC core campus contains a large collection of mostly non-native trees, shrubs

and other plants that make up the campus environment. As an overall visual impression, this assemblage of plant materials can be characterized as heterogeneous. The campus trees have been catalogued in a campus Existing Tree Inventory. Many of these trees and other plants are also listed and integrated into a self-guided tour referred to as the Mountie Tree Walk which was prepared by the Mt. SAC Agriculture Department in 1991. Planned building and grounds construction, removal of trees in poor condition and the implementation of a more coherent and native friendly Landscape Master Plan, as outlined in the Landscape and Open Space Plan section of this Master Plan Update will result in the reduction of the current tree and plant inventory. Efforts will remain to maintain and where possible relocate botanical specimen trees that contribute to the learning potential of biology students, that provide shade and that are aesthetically significant.

Historic Resources

The Master Plan proposes the conservation and adaptive reuse of the former President's house (Bldg. 10) and the Oden House (Bldg. 12A), as these structures are historically important to the College.

The Heritage Hall project to take place near the Stadium will store and display historic memorabilia related to the many regional, statewide and international athletic records set at Mt. SAC.

LIGHTING PLAN

The lighting Plan as illustrated here represents an ideal campus in which all areas to be used at night by students, faculty and staff would be illuminated by pedestrian pathway lighting fixtures. Existing lighting and future building project lighting plans should be compared with this idealized plan in an attempt to help locate those current and future areas where additional, new and/or relocated lighting will be needed to create a safe campus environment. Pathway lighting, building exterior fixtures, parking lot and fields lighting all figure into the campus lighting plan with pathway lighting being the primary focus of the Lighting Plan Illustration here.



LIGHTING PLAN

A concept Lighting Plan is provided here to indicate the general direction anticipated for campus outdoor lighting. The following goals should shape the conceptual layout of lighting and direct specific lighting projects.

1. To ensure safety, provide adequate lighting in all pedestrian accessible areas of the campus open for nighttime use and activity.
2. Provide for higher lighting levels in areas of heavy pedestrian use and where potential exists for pedestrian-vehicular and or vehicular-vehicular conflict.
3. Support campus wayfinding by reinforcing major pedestrian routes and campus signs with adequate and appropriate lighting.
4. Celebrate aesthetic aspects of the campus such as building facades, trees, open spaces, landscaping and public art with accent lighting designed to highlight and direct the eye.

5. Avoid unwanted lighting impacts upon adjacent academic facilities and/or neighborhoods.

6. Coordinate the placement of lighting with landscape improvements to minimize conflicts between lighting fixtures, trees and shrubs.

7. Lighting systems should meet the following criteria:

- a. Light standards, poles, fixtures and elements should be standardized to conserve maintenance resources;
- b. Light fixtures should be easily accessible for lamp replacement;
- c. All lighting systems shall meet or exceed current California Title 24 Energy Standards.
- d. Area and pedestrian walkway lighting shall be designed per IESNA Illumination Level Guidelines.

Pedestrian pathway lighting fixtures should be mounted on low poles spaced and scaled to concentrate light around human activity areas. Low pathway bollard lights are also appropriate. Taller standards are appropriate for parking areas and vehicular drives. The fixture shown here is the campus standard. Pole mounts may vary.



Seasonal and thematic banners can be placed upon taller and intermediate sized standards, and used to demarcate both vehicular drives and pedestrian paths. Pole-mounted signs such as the one above will be eliminated under the provisions of the 2005 Master Plan Update.

CAMPUS SIGN PLAN

- **Roadway Directional Signs**
- **Campus Maps**
- **Exterior Building Signs**



WAYFINDING AND SIGN PLAN

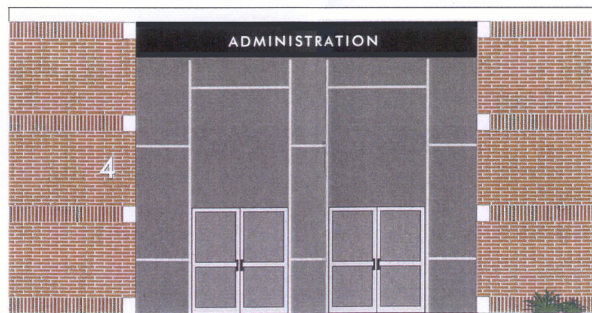
The Wayfinding and Sign Plan illustrated on these pages represents the basic sign improvement plan proposed to improve campus visitor and user wayfinding on today's Mt. SAC campus and to best serve the proposed future campus as described in this 2005 Master Plan Update. The Wayfinding and Sign Plan identifies the type and placement of major categories of external signs that will assist persons in their arriving and navigating through the campus environment. The signs identified here correspond to the primary sign types identified in the Mt. San Antonio College Sign Standards prepared by Biesek Design in 2002:

1. **“R” Series Signs:** Roadway Sign Types/Parking/Vehicular;
2. **“P” Series Signs:** Pedestrian Sign Types/Maps/Directories;
3. **“X” Series Signs:** Exterior Building Sign Types.

The signs described in the Sign Standards are at once simple, elegant and contextual to campus architectural colors and materials.

This Wayfinding and Sign Plan was developed to give a basic layout of the anticipated signs needed to replace existing aged and outdated signs, and to address the planned changes to the campus that will occur as new buildings, pathways, open spaces and parking facilities are developed on the campus. The Wayfinding and Sign Plan will also be used to help guide the budgeting of Measure R funds to be used for various campus infrastructure improvements.

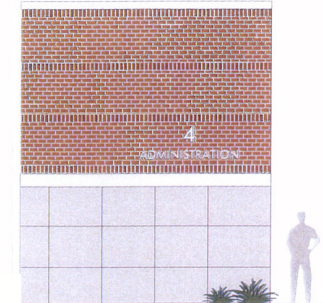
A next step for Wayfinding and Sign Plan implementation will include identifying the actual text to be placed on each sign and the securing of a sign contractor or sign design firm who will develop detailed construction documents.



Sign Example from Mt. San Antonio College Sign Standards: **X1/00 – Primary Building ID Sign**



Sign Example from Mt. San Antonio College Sign Standards: **R2a/00 – Primary Road Directional Sign**



Sign Example from Mt. San Antonio College Sign Standards: **X2/00 – Secondary Building ID Sign**

SIGN PLAN

The Sign Plan contained on page 24 is cross-referenced to the table on this and adjoining pages. Each entry in the table identifies a sign by a unique ID number that is also located on the Sign Plan. Each entry lists major characteristics of the sign including major sign type, whether the sign should be lighted and any special installation criteria associated with the sign.

The Exterior Building Signs (“X” Series Signs) indicated on the Sign Plan and tables are only shown for new campus projects. A survey of existing exterior building signs needs to be made from which a plan for the placement of Exterior Building Signs can be delineated taking into account the future master plan pedestrian circulation system.

LOCATION	SIGN CATEGORY	REMOVE EXISTING	LIGHTING	NOTES	
1		existing sign	no	yes	welcome sign to be replaced long term to R2a/00
2		existing sign	no	yes	welcome sign to be replaced long term to R2a/00
3	R7b/00	(post and panel medium)	NE	no	roadway directional
4	R7b/00	(post and panel medium)	yes	no	general directions and regulations
5	R3/00	(campus monument sign)	NE	yes	with electronic screen
6	R2a/00	(roadway directional)	NE	yes	welcome sign
7	R2a/00	(roadway directional)	NE	yes	welcome sign
8	R7b/00	(post and panel medium)	yes	yes	welcome sign
9	R7b/00	(post and panel medium)	yes	no	roadway directional
10	R7a/00	(post and panel medium)	NE	no	parking lot ID
11	R2b/00	(secondary roadway directional)	NE	no	welcome sign
12	R7c/00	(roadway directional)	yes	yes	welcome sign (don't to block left-turn visibility)
13	R7b/00	(secondary roadway directional)	NE	no	welcome sign
14	R2b/00	(secondary roadway directional)	NE	yes	welcome sign/roadway directional
15		existing sign	no	yes	welcome sign to be replaced long term to R2a/00
16	R2a/00	(roadway directional)	NE	yes	welcome sign/roadway directional
17	R2a/00	(roadway directional)	NE	yes	welcome sign/roadway directional
18	R7b/00	(post and panel medium)	NE	yes	facility name/directional
19	R7b/00	(post and panel large)	NE	no	roadway directional
20	R7a/00	(post and panel large)	NE	no	roadway directional/parking lot ID
21	R7b/00	(post and panel medium)	yes	no	roadway directional/parking lot ID
22	R7b/00	(post and panel medium)	yes	no	roadway directional/parking lot ID
23	R7b/00	(post and panel medium)	yes	no	roadway directional/parking lot ID
24	R7b/00	(post and panel medium)	yes	no	parking lot ID
25	R7b/00	(post and panel medium)	yes	no	parking lot ID
26	R7b/00	(post and panel medium)	yes	no	facility name/directional
27	R7b/00	(post and panel medium)	yes	no	parking lot ID
28	R7b/00	(post and panel medium)	yes	no	parking lot ID
29	R2b/00	(parking lot / structure ID)	NE	no	welcome/roadway directional
30	R7a/00	(post and panel medium)	yes	no	parking lot ID
31	R7b/00	(post and panel medium)	yes	no	parking lot ID
32	R7b/00	(post and panel medium)	yes	no	parking lot ID
33	R7b/00	(post and panel medium)	yes	no	parking lot ID
34	R2b/00	(secondary roadway directional)	yes	no	roadway directional
35	R7b/00	(post and panel medium)	yes	no	parking lot ID
36	R7b/00	(secondary roadway directional)	yes	no	roadway directional/parking lot ID
37	R2b/00	(secondary roadway directional)	yes	no	roadway directional/parking lot ID
38	R7b/00	(post and panel medium)	yes	no	parking lot ID
39	R7b/00	(post and panel medium)	yes	no	parking lot ID
40	R7b/00	(post and panel medium)	yes	no	parking lot ID
41	R7b/00	(post and panel medium)	yes	no	parking lot ID
42	R7b/00	(post and panel medium)	yes	no	parking lot ID
43	R7b/00	(post and panel medium)	yes	no	parking lot ID
45	R7b/00	(post and panel medium)	yes	no	parking lot ID
46	R7b/00	(post and panel medium)	yes	no	parking lot ID
47	R7a/00	(post and panel medium)	yes	no	parking lot ID
48	R7b/00	(post and panel medium)	yes	no	parking lot ID
49	R7b/00	(post and panel medium)	yes	no	parking lot ID
50	R7b/00	(post and panel medium)	yes	no	parking lot ID
52	R7a/00	(post and panel small)	NE	no	pedestrian drop-off
53	R7a/00	(post and panel small)	NE	no	drop-off/pedestrian directional

Notes:







- NE Nonexistent
- ND Not determined
- TBD To Be Determined

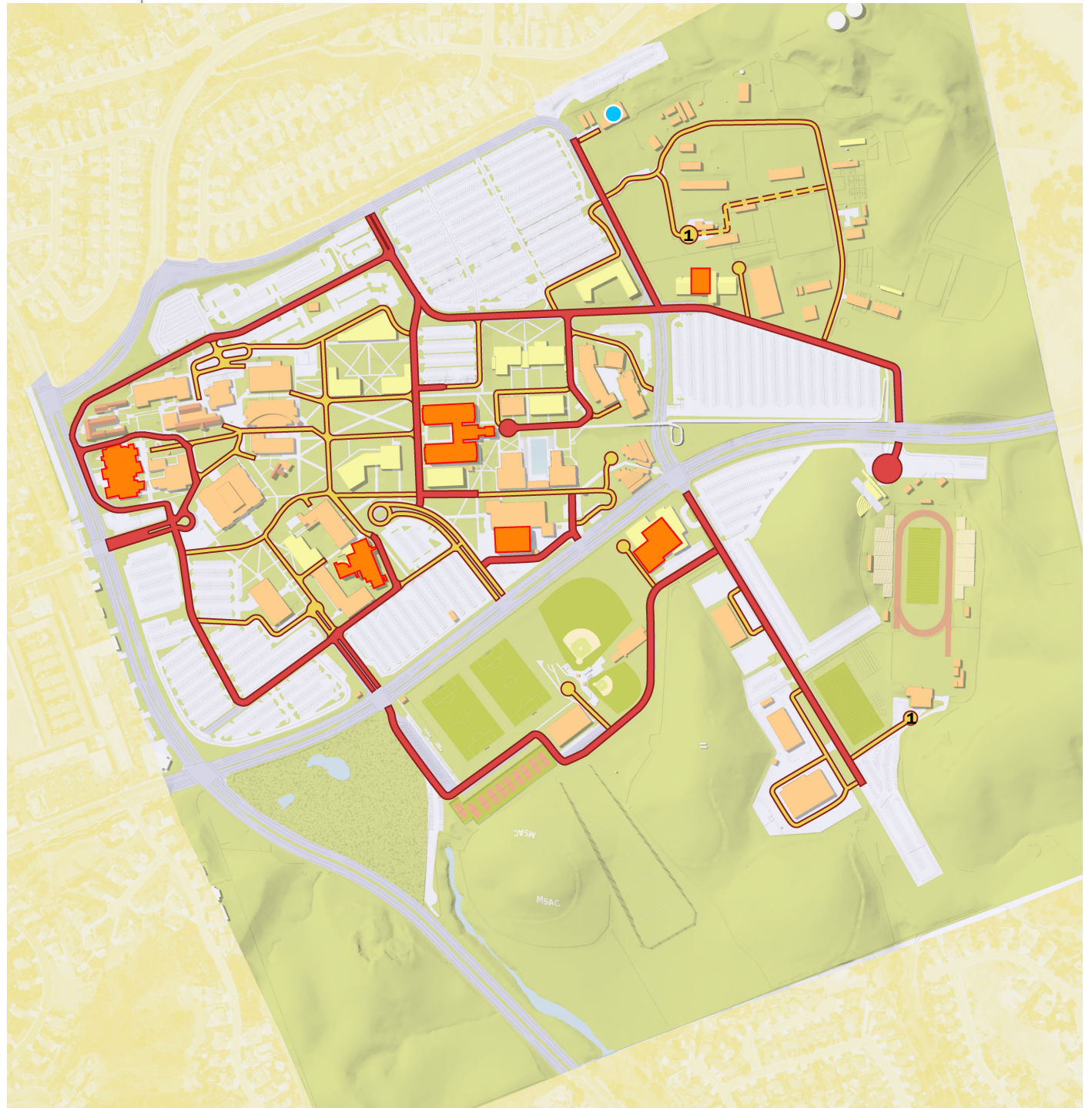
LOCATION	SIGN CATEGORY	REMOVE EXISTING	LIGHTING	NOTES
54	R7a/00 (post and panel medium)	NE	yes	drop-off/pedestrian directional
55	R7a/00 (post and panel small)	NE	yes	pedestrian directional
56	R7a/00 (post and panel small)	NE	yes	pedestrian directional
57	R7a/00 (post and panel small)	NE	yes	pedestrian directional
58	R7b/00 (post and panel medium)	NE	no	pedestrian drop-off
59	R7a/00 (post and panel small)	NE	no	pedestrian directional
60	R7a/00 (post and panel small)	NE	no	pedestrian directional/facility name/regulatory
61	R7a/00 (post and panel small)	NE	no	pedestrian directional
62	R7a/00 (post and panel small)	NE	no	pedestrian directional
63	R7a/00 (post and panel small)	NE	no	pedestrian directional/facility name/regulatory
64	R7a/00 (post and panel small)	NE	no	pedestrian directional
65	R7a/00 (post and panel small)	NE	no	pedestrian directional/facility name/regulatory
66	R7b/00 (post and panel medium)	yes	no	facility name/directional
67	R7b/00 (post and panel medium)	yes	no	facility name/directional
68	R7b/00 (post and panel medium)	yes	no	facility name
69	R7b/00 (post and panel medium)	ND	no	pedestrian directional/facility name/regulatory
70	R7b/00 (post and panel medium)	ND	no	facility name/regulatory
72	P1/00 (campus map)	yes	yes	campus directory
73	P1/00 (campus map)	yes	yes	campus directory
74	P1/00 (campus map)	yes	yes	campus directory
75	P1/00 (campus map)	yes	yes	campus directory
76	X1/00 (primary building ID)	NE	TBD	building name, main entrance
77	X1/00 (primary building ID)	NE	TBD	building name, main entrance
78	X1/00 (primary building ID)	NE	TBD	building name, main entrance
79	X1/00 (primary building ID)	NE	TBD	building name, main entrance
80	X1/00 (primary building ID)	NE	TBD	building name, main entrance
81	X1/00 (primary building ID)	NE	TBD	building name, main entrance
82	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
83	X1/00 (primary building ID)	NE	TBD	building name, main entrance
84	X1/00 (primary building ID)	NE	TBD	building name, main entrance
85	X1/00 (primary building ID)	NE	TBD	building name, main entrance
86	X1/00 (primary building ID)	NE	TBD	building name, main entrance
87	X1/00 (primary building ID)	NE	TBD	building name, main entrance
88	X1/00 (primary building ID)	NE	TBD	building name, main entrance
89	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
90	X1/00 (primary building ID)	NE	TBD	building name, main entrance
91	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
92	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
93	X1/00 (primary building ID)	NE	TBD	building name, main entrance
94	X1/00 (primary building ID)	NE	TBD	building name, main entrance
95	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
96	X1/00 (primary building ID)	NE	TBD	building name, secondary entrance
97	X2/00 (secondary building ID)	NE	no	building name, secondary entrance
98	X1/00 (primary building ID)	NE	TBD	building name, main entrance
99a	X2/00 (secondary building ID)	NE	yes	building name, secondary entrance
99b	X1/00 (primary building ID)	NE	yes	building name, main entrance
100	R7c/00 (post and panel large)	yes	no	agricultural sciences (remove existing 200ft north)
101	R7b/00 (post and panel medium)	yes	no	parking lot ID
102	R7b/00 (post and panel medium)	yes	no	parking lot ID
103	X1/00 (primary building ID)	NE	TBD	building name, main entrance
104	R7b/00 (post and panel large)	NE	no	roadway directional
105	R7a/00 (post and panel medium)	NE / ND	no	roadway directional
106	R7a/00 (post and panel medium)	NE / ND	no	roadway directional
107	R7b/00 (post and panel medium)	NE / ND	no	facility name
108	R7a/00 (post and panel medium)	NE / ND	no	facility name
109	R7b/00 (post and panel medium)	NE / ND	no	facility name
110	P1/00 (campus map)	yes	yes	campus directory

Notes:

- NE Nonexistent
- ND Not determined
- TBD To Be Determined

EMERGENCY ACCESS PLAN

-  28' foot wide emergency access
-  20' foot wide emergency access
-  26' foot wide gravel emergency access
-  Buildings over 35' high
-  Subject to emergency vehicle turnaround verification
-  Proposed New Mt. SAC Public Safety Facility Location



EMERGENCY ACCESS PLAN

The Emergency Access Plan contained on this page represents an update to the Claremont Environmental Design Group, Inc./JT Engineering, Inc. Emergency Vehicle Access Plan, dated October 10, 2002, which was based on the 2002 Master Plan. The current Emergency Access Plan illustrated here is based on the current 2005 Master Plan Update configuration of proposed buildings, access roadways, service roads, pathways and other campus facilities. The Plan is based on the same Los Angeles County Fire Department Fire Prevention Division design criteria for fire vehicle access, and indicates both 20-foot-wide and 28-foot-wide driveway segments and appropriate 42-foot turning and turn-around radii. To reduce the amount of concrete in various pedestrian pathway areas of the campus, the Master Plan is proposing the construction of pathways that include a 14-foot-wide concrete walk capable of accommodating the weight of large service vehicles, which is then flanked by two 7-foot 'grass-crete' type units on either side to make up the required 28-foot emergency access vehicle drive lane. Further, the plan is based upon a maximum 150-foot 'fire hose' distance from the access roads.





CAMPUS SECURITY

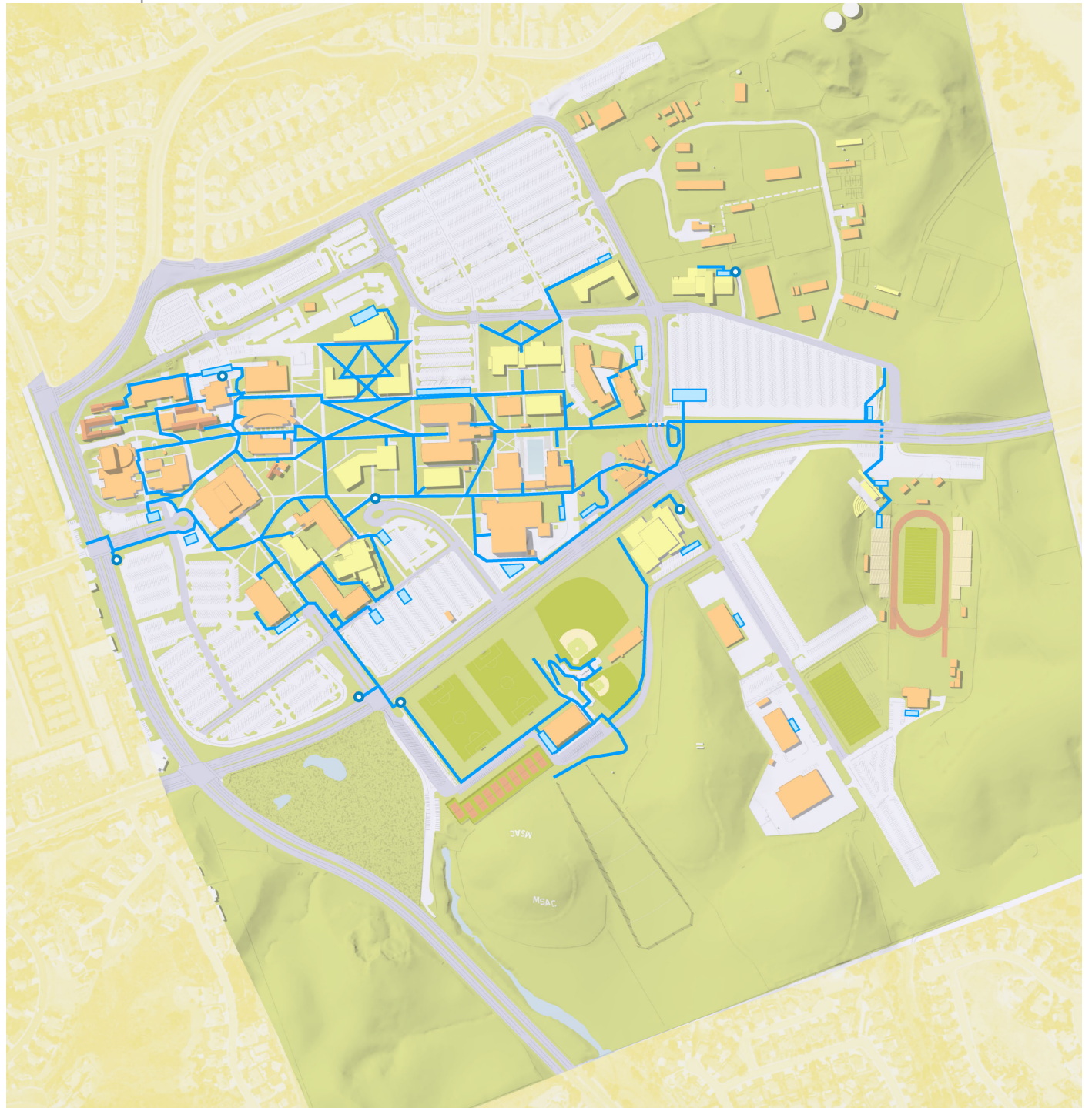
With the progressively phased building plan associated with the implementation of the long-term capital improvement projects centering on those made possible through Measure R, various campus spaces and facilities will be reassigned. As part of the long-term campus plan, the Mt. SAC Public Safety Department will be relocated to Building 30, where it will have rapid access to roads surrounding and entering into the campus. Further, as new buildings and parking facilities are added and/or extended on the campus, additional campus security phones and

public phones will be added to the campus to provide students, faculty and staff with emergency public safety access in those areas and facilities.



UNIVERSAL ACCESS PLAN

-  Universal access path
-  Path grade separation
-  Handicap parking zone
-  Bus and tram stop



UNIVERSAL ACCESS PLAN

The Universal Access Plan is based upon the regulations of the Americans with Disabilities Act (ADA) and attempts to address the ideas of providing equal access to all persons in such a way that is logical, clear and accessible in a comfortable manner. As presented here, it represents a significant update and, where appropriate, reconfiguration of the Universal Access Plan developed by Claremont Environmental Design Group, Inc./JT Engineering, Inc., dated October 15, 2002. As it is based upon the 2005 Master Plan, it addresses major modifications to the campus pedestrian pathway system including new east-west pathways north and south of existing English/Math Building, an extended pedestrian path eastward from Bonita Drive at the pedestrian overpass to the east campus entry access to the planned Design Technology Center (DTC), and access around and through a new reconfigured campus Quad.



Because of Mt. SAC's sloping topography, main pedestrian pathways have been laid out in an east-west direction where they remain essentially level as they traverse along the core campus slopes which fall towards the south. Where pathways must climb the slope, following ADA guidelines, pathways are made to gradually ascend and descend across slopes at an angle that does not exceed 5 percent. Stairs are used when appropriate as equal adjoining systems linking major campus facilities.

PHASING PLAN

The 2003 to 2005 year period witnessed various refinements to the size, space composition and proposed construction schedule for most Measure R and State-funded projects proposed for the Mt. SAC campus. These refinements were the result of an interactive process that attempted to balance cost effectiveness of bond funds, State funding priorities and campus needs. Further, these refinements were the product of a range of discussions between Mt. San Antonio Community College District and the California Community Colleges Chancellor's Office, with input from Bovis Lend Lease, AC Martin Partners and Community College Services Group. The proposed refinements and modifications were reviewed and approved by the Citizen's Advisory Committee which was set up to oversee the expenditure of the bond funds raised from within the District. The 2004-2005 period was especially one of rapidly escalating construction costs which tended to impact both specific projects and the long-term prospects for funding various components of the entire Measure R program.

The accompanying table summarizes the proposed long-term capital construction program for the campus. Various projects on this list are subject to future funding approvals by the state and/or building program verification that will be postponed until the time of building project design.

Long-Term Capital Projects Phasing Plan

Project	Funding Source (s)	Projected Occupancy
South Science Laboratory [1]	MSACCD/CCC	8/2006
Music Expansion [17g]	MSACCD	5/2006
Agricultural Sciences Complex [5] (Main facility only)	MSACCD/CCC	7/2007
Child Development Center/Early Childhood Learning Lab [6]	MSACCD	7/2007
Gymnasium [11]	MSACCD	1/2008
North Sciences/Math Building [17i]	MSACCD	1/2008
Off-Campus Learning Centers [4]	MSACCD	8/2009
Business and Computer Technology Center [8,9]	MSACCD	10/2009
Design Technology Center [10] (Includes 400 Person Assembly Space)	MSACCD/CCC	8/2009
Campus Wide Infrastructure [17e] (Grounds, Landscape, Open Space Projects, Circulation System and Transportation Improvements)	MSACCD	2005-2010
Campus Center [12]	MSACCD	12/2010
Heritage Hall	Private Donors/ MSACCD	2010
Community Education Facility (CEF)	MSACCD	2015
Parking Structure (2,250 Spaces)	MSACCD	2011-2025
Future Class/Lab Building	TBD	TBD
Future Class/ Lab Building	TBD	TBD

Notes:

- [] Original Measure R Project Number Indicated in Brackets
- CCC California Community Colleges
- MSACCD Mt. San Antonio Community College District
- ASF Assignable Square Feet
- GSF Gross Square Feet
- TBD To Be Determined

BASIS FOR THE PLAN PROJECTED MT. SAC GROWTH

In 2001, prior to the passage of Measure R, Mt. San Antonio College retained the services of Charles McIntyre to develop a twenty-year facilities plan outlook for the campus. The study, Mt. San Antonio College Facilities Planning 2001-2020, developed scenarios for campus facilities growth based upon various building condition/replacement, demographic and academic program delivery assumptions about the campus. The report recommended four basic strategies for addressing the future demand for Mt. SAC educational services:

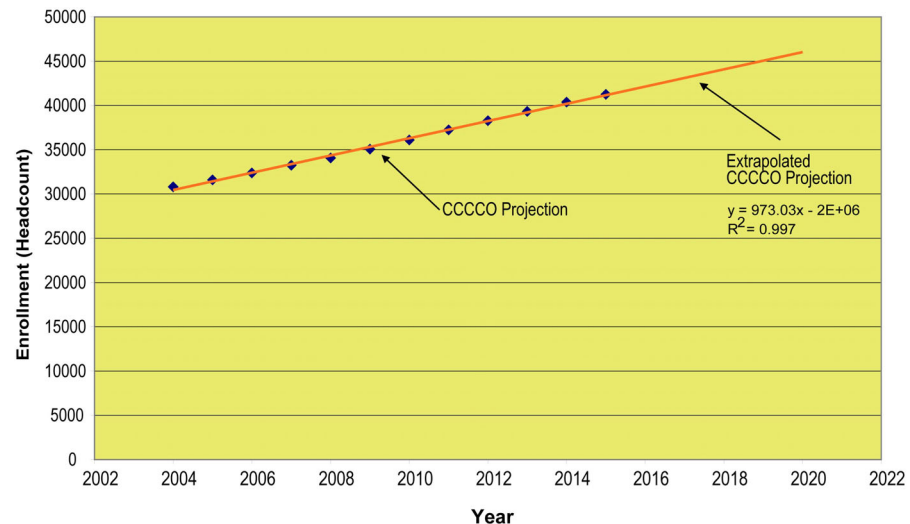
1. Improve utilization of campus facilities
2. Develop two new off-campus Centers
3. Expand distance learning and new hybrid (on-line and campus) courses
4. Remove and renovate old and construct new on-campus (Walnut) facilities

As part of the Master Plan 2005 update process, the planning team revised the earlier assumptions and adjusted the projected growth trend to correspond to the California Community Colleges Chancellor's Office (CCCCO) projections to the year 2015 and to extrapolate that linear trend to the year 2020. Likewise, CCCCC Weekly Student Contact Hours (WSCH) associated with that growth and extrapolation were also used as the basis for analyzing the future need for classroom, laboratory, office, library, physi-

cal education and other major space categories for the Mt. SAC campus. Additionally, although the McIntyre basic strategies for addressing future growth remain valid, the specific assumptions were modified for planning purposes. The most important revision in this regard was to the assumption

related to the use of off-campus Centers and distance learning. Whereas the earlier working assumptions proposed that some 20 percent of Mt. SAC WSCH would be attained in the off-campus Centers and through distance learning, the figure was reduced to 5 percent in the Master Plan 2005 Update.

Projected Enrollment Growth to Year 2020



Source: California Community Colleges Chancellor's Office Enrollment Forecast, 2004

PLANNING ASSUMPTIONS AND PROJECTIONS

PROJECTED GROWTH AND NEEDS TO YEAR 2020

Master Plan Parameter	Current/Base Year [Existing Definition Varies] ¹	Projected 2010 ²	Projected 2015 ²	Projected 2020 ²
Enrollment (Headcount) ³	35,712	36,093	41,255	46,000
Full Time Equivalent Students (FTES) ⁴	25,502	25,781	29,468	32,857
Weekly Student Contact Hours (WSCH) ⁵	326,800	330,283	377,520	420,900
On-Campus Weekly Student Contact Hours (WSCH) ⁶	302,297	313,108	357,889	399,013
Campus ASF ⁸	908,281			
Campus GSF/OGFS ⁸	1,304,863			
Major Permanent Buildings	31			
Parking Spaces ⁹	7,794	7,310	8,356	9,317

^{1,3} Headcount from Chancellor’s Office Projections (CCCCO Research and Planning Unit Long Range Enrollment and WSCH Forecast, 2003); estimate for year 2020 based on Chancellor’s Office trend extrapolated by ACMP through Year 2015.

² Taken from Chancellor’s Office Projections through year 2015, extrapolated/estimate by ACMP for year 2020.

³ Base year of 2002.

⁴ Base year of 2002/2003 for Total Actual Campus Credit and Non-Credit FTES; Projections based on same rate as Enrollment estimates. Includes approximately 400 FTES Off-Site.

⁵ Taken from Chancellor’s Office Projections through year 2015, extrapolated/estimate by ACMP for year 2020.

⁶ Base year of 2004 from 2006-2010 5-Year Construction Plan; Years 2010, 2015 and 2020 estimated at 94 percent of Total Mt. SAC WSCH.

⁷ See: Memo: Access, Circulation and Parking Review for the Mt. San Antonio College Master Plan Update; Walnut, California. January 27, 2004. Meyer Mohaddes Associates

⁸ FUSION Report, April 2005

⁹ Base year, 2002 taken from campus inventory included in RK Engineering 3/20/02 Demand Survey, includes 44 motorcycle spaces.

CAPACITY LOAD ANALYSIS














California State funding for the construction of new and renovated academic classrooms, laboratories and office facilities is, in part, based on the needs of each campus, as determined by the current and projected efficient utilization of academic facilities. To effectively evaluate the utilization of community college facilities, the State relies upon academic floor space formulas, as expressed in Assignable Square Feet (ASF), tied to facility utilization factors. Both the maximum allowable size for classrooms, laboratories and office facilities in ASF, and their direct percent utilization by students, faculty and staff, over a typical academic week, are provided for in these formulas. The Formulas, themselves, are contained within Title V of the State Education Code.

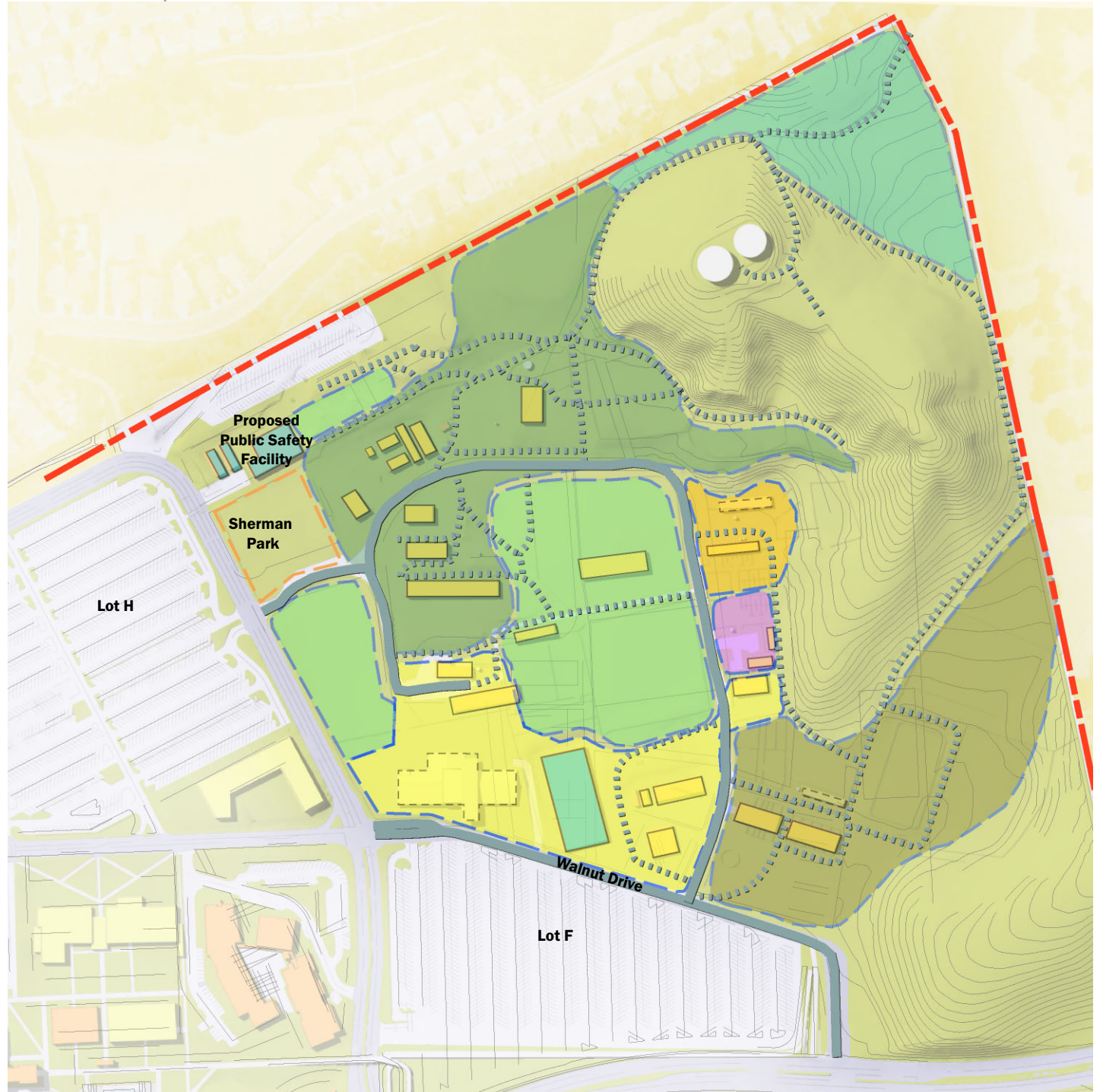
Central to the concept of facility utilization, is the concept of capacity. The capacity of a campus is defined as the enrollment that could be accommodated within the complement of campus classrooms, laboratories and offices, built according to State standards. A capacity-to-load ratio is determined for each category of campus space (classrooms, laboratories and offices) to determine the overall 'campus capacity' to accommodate the 'load' of students.

At the time of publication for the Master Plan Update 2005, Community College Service Group was preparing a capacity/load analysis for Mt. San Antonio College. The analysis was being prepared, assuming the removal

of the antiquated 'row buildings' and assuming removal of other aging and temporary structures on the campus. The analysis also assumed the construction of the academic buildings identified in Measure R and other future buildings to be funded by the State and/or the Mt. San Antonio Community College District, as outlined elsewhere in this Update 2005 document. The related growth assumptions for the capacity/load analysis included an accounting of both credit and non-credit students and their impact on Full Time Equivalent Students (FTES) at Mt. SAC, described on pages 33 and 34.

AGRICULTURAL SCIENCES AREA PLAN

-  Livestock/ Pasture
-  Swine
-  Exotics/ Raptor/ Animal Ecology
-  Horticulture
-  Shared Agriculture
-  Equine
-  Campus Reserve
-  General Campus Open Space
-  Existing Agricultural Science Facility
-  Proposed Agricultural Science Facility
-  Existing Non-agricultural Science Facility
-  Existing Paved Roadways
-  Gravel Roads



AGRICULTURAL SCIENCES AREA PLAN

The Agricultural Sciences Master Plan

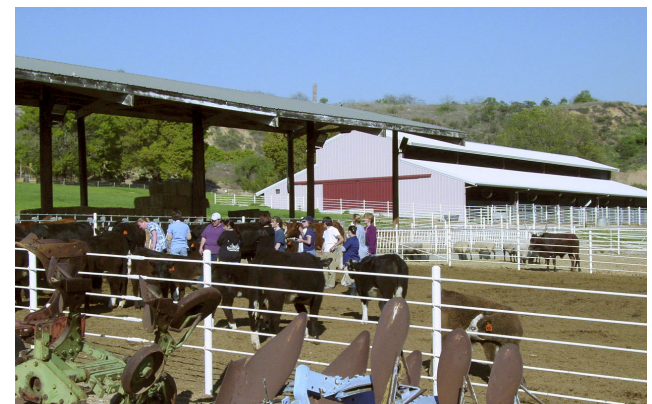
In 2002, KTG Group prepared a master plan for the northeast portion of the campus, which is the center of the programs of the Agricultural Sciences Department. A refinement of that Plan that reflects additional analysis of the Agricultural Sciences (Ag. Sciences) site as well as an evolution of thinking regarding the campus Master Plan in general, is included here. The plan divides the Ag. Sciences area into roughly six land use categories: Horticulture, Livestock/Pasture, Shared Agriculture and specific animal-related areas including Equine, Swine and Exotics/Raptor/Animal Ecology. A seventh general land use category is designated as Campus Reserve which includes campus property that is being held for some future currently undetermined use – in this case lands that are relatively accessible and with slopes less severe than those on neighboring hillsides. Finally, there are other areas designated as General Campus Open Space that are either unused or used at a very low intensity. Currently, most of the lands designated either Campus Reserve or General Campus Open Space are fenced and cattle are allowed to graze on the grasses and natural vegetation that naturally grow there, as – in part – a way of reducing the fire hazard associated with the vegetation.

Importantly, the land use designated as Shared Agriculture is a generally central area




devoted to facilities to be used by multiple programs within the Agricultural Sciences Department. The Agricultural Sciences Complex is a planned laboratory building that will be used by both animal science and plant science disciplines and programs. As such, the Agricultural Sciences Complex needs to be linked by pedestrian pathways to other areas of the Agricultural Sciences area.

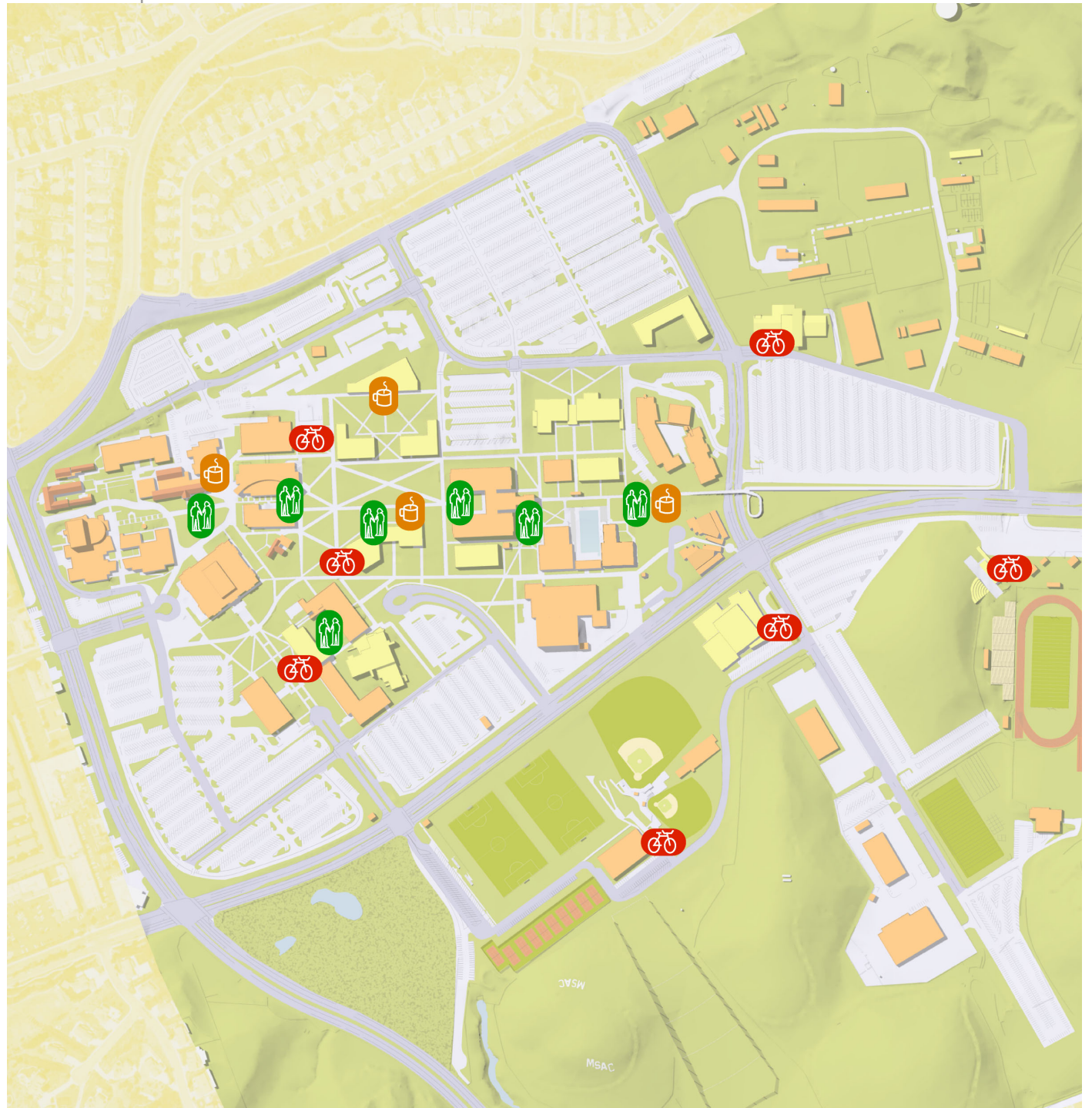
The Ag. Sciences area is primarily accessible by Farm Road, which is a paved access road that serves both vehicular and pedestrian needs including use by students, faculty and staff of the Ag. Sciences Department, visitors and emergency vehicle access. Further, the road shoulder is frequently used for parking by students who take classes centered in the various dispersed buildings, facilities and outdoor areas where Ag. Sciences programs are offered. Farm Road is connected to both Bonita Drive on the west and Walnut Drive on the south, but is intended as a circulator for use by the Ag. Sciences programs and not for general campus use. A gate system is proposed as the primary method of restricting entry into the Ag. Sciences areas during normal academic periods.

An “Agricultural Literacy Trail” is a proposed feature of the Agricultural Sciences Master Plan. This trail would meet the requirements of the Americans With Disabilities Act (ADA).



CAMPUS ENHANCEMENTS PLAN

-  **Food Service Facility**
-  **Gathering Area/
Pedestrian Amenities**
-  **Bicycle Racks**



OTHER CAMPUS ENHANCEMENTS

In addition to the various campus improvements identified in the above sections of the Master Plan 2005 update are a variety of other projects that are needed to support campus activities. In general, these projects would be constructed utilizing Mt. San Antonio Community College District funds – such as the funds provided through Measure R identified as ‘Campus Wide Infrastructure.’ As defined here, these campus enhancements are designed to support student, faculty and staff pedestrian activity and include items such as benches, trash receptacles and other ‘street furniture,’ additional minor food service locations in peripheral areas of the core campus and transportation support items such as bike racks and bus/tram waiting facilities.

All of these items are identified here in general terms and need to be the subject of further study to determine the best configuration (materials, colors), numbers of installations, specific locations and costs.



Bicycle Storage Racks

Bicycle racks are an important campus feature that reinforce the desire of some students/faculty/staff to travel to Mt. SAC by way of bicycle, thus lessening traffic and parking impacts, reducing rider travel costs and contributing to rider health. The location and type of bike racks provided are crucial to bike rack use, convenience and bicycle security. Many designs are available including vertical racks that can be placed within buildings and along building walls to conserve space.



East Campus Food Service

With the recent addition of the Language and Health Careers Centers, the Air Conditioning/Welding Buildings and planned Design Technology Center, Agricultural Sciences Complex and Child Development Center, the center of gravity for campus student activity will shift eastward suggesting the location of a new satellite food service outlet on the east side of the campus. Such a small facility could be a stand-alone facility of one integrated into the ground floor of some existing or future building. Provision of outdoor and covered outdoor seating is essential. Candidate sites include: 1) retrofitting the southwest corner of the Language Center where visual and noise impacts to surrounding uses would be minimal; 2) within the planned Design Technology Center; or 3) adjacent and overlooking the pool. Other sites are possible.

INFORMATION SOURCES

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- **KTGY Group, Inc.** Agriculture Science Campus Plan: Mt. San Antonio College 2000/2001
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- **McIntyre, Charles** Mt. San Antonio College Enrollment Simulation and Planning: Environmental Scan Enrollment Analysis Forecasts, References and Appendices September 2000
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- Act of 1980, Capital Outlay Budget Change Proposal July 1, 2004
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- **Mt. San Antonio College, Agriculture Department** Mountie Tree Walk 1991
- **Mt. San Antonio College, Ann Marie West** Insights on the College Vol. 13, No. 6: Research and Institutional Effectiveness October 2003
- **RK Engineering Group, Inc.** Mt. San Antonio College Master Plan Parking Lot and Access Study, Walnut California August 28, 2002
- **Vantage Technology Consulting Group** Design Criteria for Technology, Mount San Antonio College, Walnut, California June 5, 2002

APPENDICES

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Appendix E: Access, Circulation & Parking Review for the Mt. San Antonio College Campus Master Plan Update 2005; Walnut, California [Meyer Mohaddes Associates Memorandum March 31, 2005 (133 pages)] (See separate PDF: "MTSAC_APPENDIX-E_MMA.pdf")	

APPENDIX A: GOALS FOR THE PHYSICAL DEVELOPMENT OF THE CAMPUS

During the initial phases of the planning process, the AC Martin team sought to establish a framework in which to guide the development of the Campus Master Plan Update. Two principal sources of information were used to accomplish this: a review of existing materials and documentation related to the campus vision, facilities planning and development; and meetings with key campus leadership and staff. The following set of goals, grouped by major topic area related to the programmatic and physical aspects of the campus, served as the basis for the development of the of Master Plan Update 2005. The campus Vision and Mission Statements are included first as primary context from which all campus activities flow.

1. General Goals

1.1. Mt. SAC Vision Statement: Mt. SAC strives to be regarded as one of the premier community colleges in the nation. We will be viewed as a leader in community college teaching, programs, and services. As a premier community college, we will provide access to quality, focusing on student success within a climate of integrity and respect. We will earn this reputation by consistently exceeding the expectations of our students, our staff, and our community.

1.2. Campus Mission Statement:

1.2.1. To provide accessible and affordable quality learning opportunities in re-

sponse to the needs and interests of the individuals and organizations.

1.2.2. To provide quality transfer, career, and life-long learning programs that prepare students with the knowledge and skills needed for success in an interconnected world.

1.2.3. To advance the state's and region's economic growth and global competitiveness through education, training, and services that contribute to continuous workforce improvement.

2. Future Growth

2.1. Headcount and WSCH targets

- 2.1.1. CCCC projections
 - 2.1.1.1. YEAR 2010 ENROLLMENT: 36,093
 - 2.1.1.2. YEAR 2010 TOTAL WSCH: 330,283
 - 2.1.1.3. YEAR 2015 ENROLLMENT: 41,255
 - 2.1.1.4. YEAR 2015 TOTAL WSCH: 377,520

2.2. The Walnut campus will remain the primary focus of all Mt. SAC activities.

2.3. Plan for a campus that contains all the necessary support services associated with a campus of its anticipated size and mix of programs.

2.4. Mt. SAC will offer limited programs in two underserved communities within the Mt. SAC primary service area through Off-Campus Learning Centers in Baldwin Park and Pomona (Measure R Project 4).



2.5. Distance learning will be supported as an important feature of the Mt. SAC program and is projected to contribute approximately 2,500 WSCH by 2005 (450 on-line courses) and nearly 5,000 WSCH by 2020 in hybrid class format. [McIntyre, March 2001]

3. Programmatic Growth and Change

3.1. Academic programs growth analysis [see page 33].

3.2. Space adjustments to balance State space categories [see page 35].

3.3. A Workforce Training Center will not be built as a separate facility. Related programs will be offered in other campus facilities such as the future Business and Computer Technology Center (Project 9).

3.4. Community Education programs will be moved to a location closer to the core of campus activity and placed within a dedicated facility (proposed new project).

3.5. Future growth, reassignment of space and unrealized Library space capacity will support a future classroom/lab/office facility [further definition, refinement in process].

3.6. Some unrealized Library capacity space to be introduced into the Design Technology Center (Project 10).

3.7. Science Complex cost reevaluation.

3.8. Additional future building site identified south of Bldg. 26D available to accommodate long-range growth.

4. Campus Environmental Characteristics

4.1. Create an excellent visual and functional physical environment commensurate and supportive of the continued creation of an excellent academic environment.

4.2. Move the imagery of the Mt. SAC campus towards one that is more closely aligned with that of the better four-year institutions.

4.3. Create buildings and grounds that evoke permanency, quality and a respect for higher education, but built within the budgets allocated through the MSACCD and the State of California.

4.4. Open spaces are deliberately created to form campus spaces that are framed by buildings and that have visual and programmatic purposes.

4.5. Create a campus that anticipates and integrates natural strengths of the Mt. SAC site, taking advantage of vistas to campus open spaces, surrounding hillsides and Mt. San Antonio/Mount Baldy, itself.

4.6. Create outdoor spaces that support student learning, thought, student-to-student communication and student-to-faculty communication.

4.7. Improve the visual quality and functionality of existing buildings and facilities exhibiting weak design character or that fail to meet current campus demands.

4.8. Place service areas and service equipment in locations away from public view and in areas that would conflict with pedestrian circulation and use.

4.9. Use public artwork to visually enhance and define open spaces as well as to contribute to the aesthetic and intellectual environment of the campus.

4.10. Use up-lights and spot lights to add drama, interest and highlight to building facades and landscape.

4.11. Landscaping and Hardscape Systems

4.11.1. Reduce the number of campus plant species and landscape systems as a way of visually simplifying and creating elegance while contributing to maintenance efficiency.

4.11.2. Use trees to give scale to buildings, define open spaces, provide shade, reinforce walkway courses and contribute to energy efficiency.

- 4.11.3. Remove trees and other campus plant materials that are unhealthy, difficult to maintain, of an inappropriate scale and/ or that negatively impact campus views.
- 4.11.4. Develop irrigation systems and campus plant material zones that contribute to maintenance efficiencies.
- 4.11.5. Use trees and other landscape materials to soften parking lots and driveways.
- 4.11.6. Use trees, landscape materials and permanent masonry materials to screen service areas and service equipment from public view.
- 4.11.7. Use relatively easy to maintain ground covers and combinations of hard-scape and trees to reduce maintenance in peripheral areas.
- 4.11.8. Consider the planting and labeling of group of botanical specimens as a part of the landscape concept.

5. Campus Functional Characteristics

- 5.1. Create a campus environment that efficiently uses human, material and financial resources.
- 5.2. Create a campus that provides graceful access to all facilities and that is accessible to all users.
- 5.3. Provide a campus wayfinding system that is clear, logical, and effective in helping campus users navigate the campus.

- 5.4. Provide for adequate and safe service access to all facilities.
- 5.5. Provide adequate and safe parking facilities within a quarter mile of the campus core.

6. Location for Measure R and Long Term Campus Facilities

- 6.1. Community Education programs to be integrated into the main core campus area.
- 6.2. Location of the Child Development Center (Project 6) to be located somewhere near the southeast corner of Lot H to: a) afford convenient drop-off access; b) provide a separate secured environment; and c) to help mitigate the visual presence of the large parking facility.

- 6.3. Appropriate location for Math classroom facility/classrooms [See Appendix C]

7. Campus Target Areas for Improvement

- 7.1. Fine Arts Forecourt Redesign
 - 7.1.1. Simplify
 - 7.1.2. Create gateway
 - 7.1.3. Integrate visual arts: sculpture garden; temporary 'outdoor' gallery type exposition space.

- 7.2. Art Building 1A façade/entry enhancement

- 7.3. Campus Inn (Bldg. 8) outdoor eating/gathering area enhancement

- 7.4. Building 26 court yard and east entry/pathway approach enhancements

- 7.5. Mt. SAC Way Corridor improvements
 - 7.5.1. Landscape removal and simplification
 - 7.5.2. New formal pathway trees, lighting, pedestrian pavement and pedestrian drop-off enhancements

8. Other goals to be Given Priority in the Master Plan Update

APPENDIX B: EXISTING CONDITIONS AND CAMPUS ANALYSIS

The accompanying map and legend on this and the following page, for the most part, identify the Mt. San Antonio College campus facilities as they were in the spring of 2005. Buildings and facilities, indicated in orange, were in existence at that time. Buildings, indicated in yellow, were under construction or, in the case of the Design Technology Center (DTC), were planned for later construction. Because there were so many projects in the planning or design stage at the time of the publication of the 2005 Master Plan Update, the map shown here reflects the mixture of existing with some planned facilities.

The table below summarizes some of the important physical and enrollment characteristics of the Campus, acting as a kind of benchmark to the State and a starting point for the development of the Master Plan Update.

Existing Conditions Summary

Total Campus Area, Acres ¹	421
Total Students, Fall 2003 (Headcount) ²	33,750
Total Day Students, Fall 2003 (Headcount) ³	24,534
Total Evening Students, Fall 2003 (Headcount) ³	7,635
Female Students, Fall 2003 (Headcount) ³	19,390
Male Students, Fall 2003 (Headcount) ³	14,352
Full Time Equivalent Students – Credit (FTES), 2002/03 ¹	20,834
Full Time Equivalent Students—Non-Credit (FTES), 2002/03 ¹	4,669
Estimated Population of Mt. SAC Community College District, 2000 ⁴	705,900
Employees, Fall 2003 (Headcount) ²	1,548
Total Number of Major Permanent Buildings ⁵	31
Total Parking Spaces, Fall 2004 ¹	7,794

Sources and Notes:

- ¹ Mt. SAC Community College District
- ² California Community Colleges Chancellor's Office
- ³ California Community Colleges Chancellor's Office; Figures do not reflect 1,581 students for which their day/evening status was reported as unknown.
- ⁴ U.S. Census Bureau, 2000 Census
- ⁵ Excludes the 'Row Buildings' that are scheduled for removal under Master Plan Update 2005.

Existing Campus Facilities

1A	Art Center	30	Community Education
1B	Art Center	46	Physical Education Offices
1C	College Gallery	47	Maintenance Center
1C1	Animation Drawing Lab	47A	Maintenance Offices
1C2	Art Computer Graphics	48	Receiving/Transportation
2	Performing Arts Center	50G	Physical Education Center Field House
3	Physical Education Center/Gym	66	Languages Center
4	Administration/Community Services	67A	Health Careers Center
5/5A	Information Educational Technology	67B	Student Health
6	Learning Technology Center [Library]	69	Air Conditioning/Welding Building
7	Natural Sciences [Social Sciences]	CC1	Community Education Center
8	Campus Cafe	CC2	Community Education Center
9A	Auxiliary Services/Bookstore	CP	Central Plant
9B	Student Services Center	F1	Horticulture Unit
9C	Student Life Center [Student Affairs]	F1A	Picnic/Restrooms
9D	Auxiliary Services	F2A	Small Animal Unit
9E-G	Child Development Center	F2B	Small Animal Unit
10	President's Office (Future)	F2C	Irrigation Lab
11	Chemistry	F3	Agriculture Technology Center
12	Agricultural Sciences	F4	Swine Barn
12A	Foundation Office	F5	Vivarium
13	Biological Sciences	F6	Sheep Unit
14	Biology/KSAK (North Wing), Hist/Geog/Polit Sci (South Wing)	F7A	Equipment Tech Unit
15	Classroom	F7B	Equipment Tech Unit
16	Humanities/Social Sciences	F7C	Equipment Tech Unit
16A	Express Shop	F8	Equine Center
17	Business	F9	Livestock Pavilion
18	Business	F10	48th Agricultural District Office
19A	Child Development Center (South)	INFO	Information Kiosk
19B	Family & Consumer Sciences		
19C	Mountie Grill		
20	Family & Consumer Services		
20A	Child Development Offices		
21	Dance Studio		
23	Construction Management		
26A	English/Math/Social Sciences		
26B	Lecture Hall		
26C	Planetarium		
26D	English/Math		
27A	Physical Education/Wellness Center		
27B	Physical Education/Pool		
27C	Physical Education Lockers/Showers		
27D	Phys Ed Offices		
28A/B	Technology and Health Division		

PLANNED FACILITY (IN DESIGN OR CONSTRUCTION)

45	Athletic Support/Lockers
60	South Science Laboratory
DOTC	Design Technology Center

TEMPORARY FACILITIES

40	Classrooms/Storage
29B-E	Classrooms
31-39	Community Education

PARKING

LOT A	167
LOT A1	92
LOT A5	46
LOTS B	1,003
LOT D	624
LOT D2	232
LOT F	1,335
LOT G	297
LOT H	1,912
H East	81
LOT R	391
LOT W	387
PAY LOT A	212
PAY LOT B	226
BLDG 23	252
BLDG 48	100
BLDG 50	122
STADIUM	55
SHERMAN PARK	9
TEMPLE STREET	50
ALL OTHERS	
TOTAL SPACES	approx. 7,794

OPEN SPACES

J	Wildlife Sanctuary
34B	Baseball Field
L	Stadium
27S	Softball Field
N	Sherman Park Picnic Area
Q	Soccer Field
P	Pool
R	Agriculture Pasture
S	Physical Education Field [Athletic Field]
U	Marquee
Z	Future Asset Management
AA	Golf
AM	Amphitheater



**AERIAL
PHOTOGRAPH**

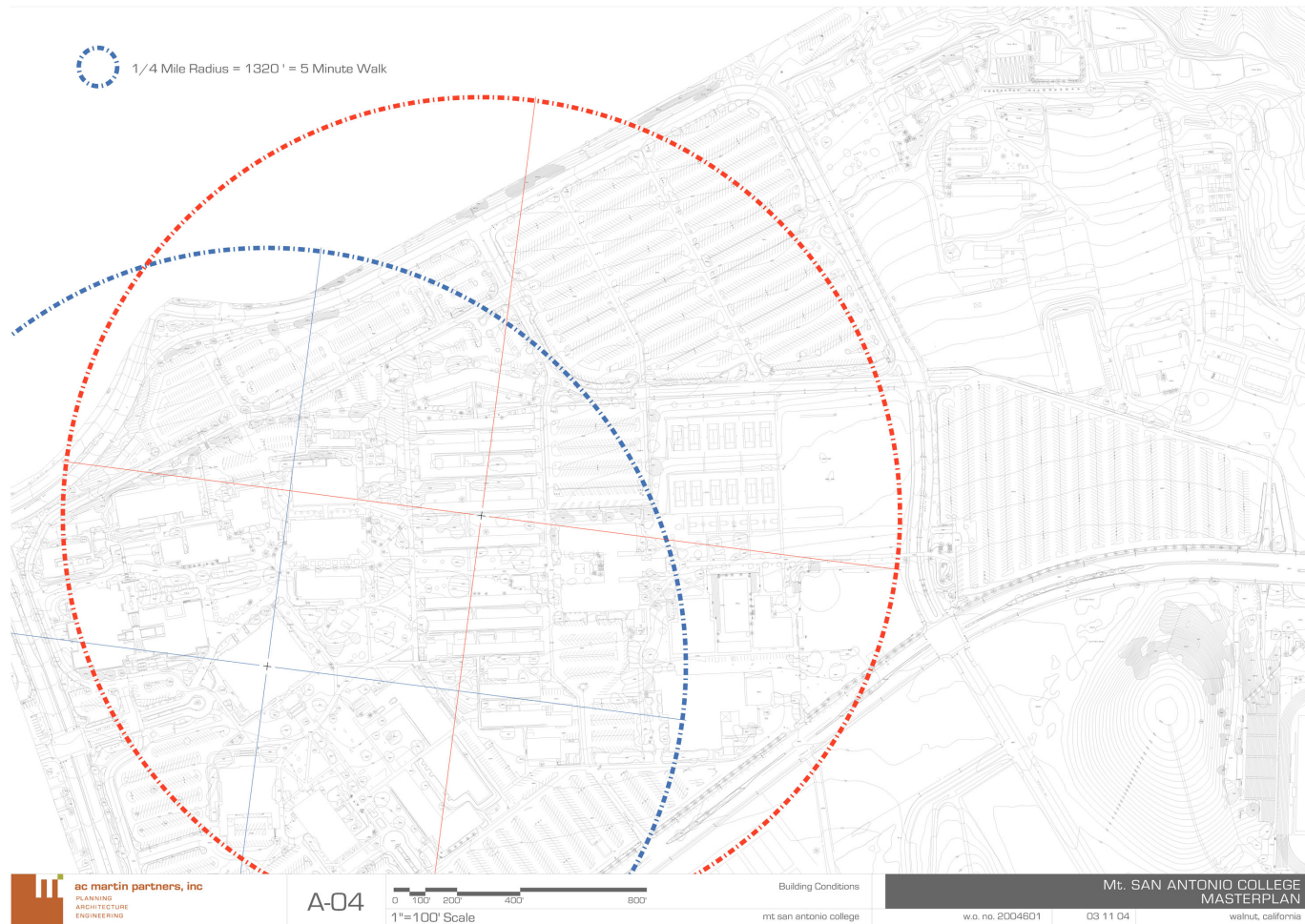


**Mt. San Antonio College
February 2002**

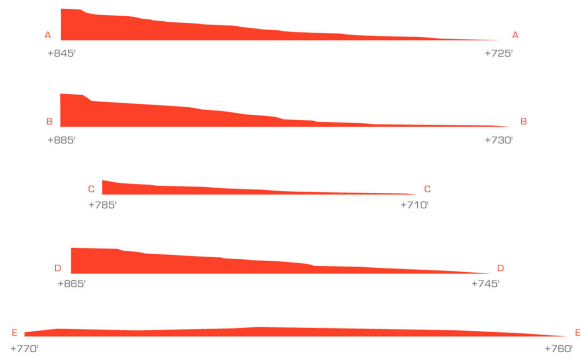
BUILDING CONDITIONS



PEDESTRIAN CIRCULATION



CAMPUS TOPOGRAPHY



ac martin partners, inc
PLANNING
ARCHITECTURE
ENGINEERING

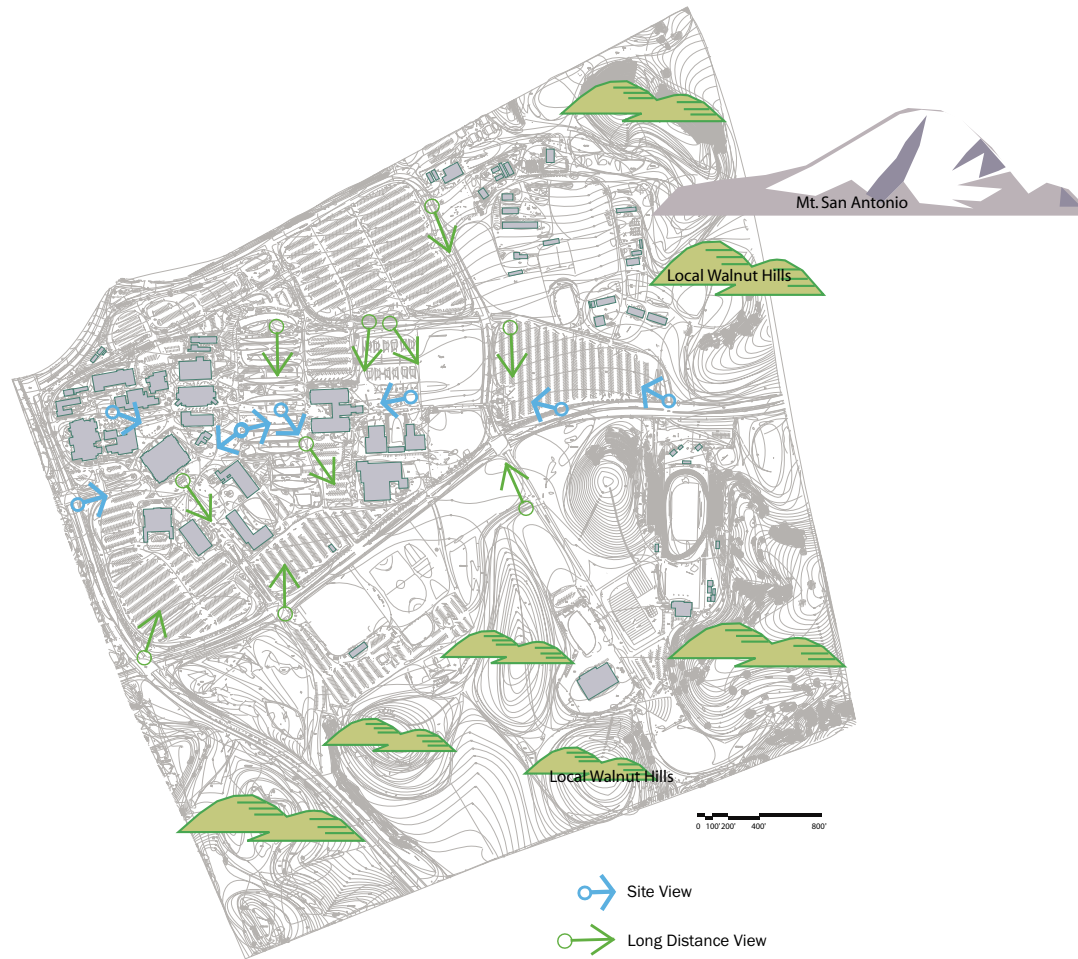
A-04



Building Conditions
mt san antonio college

Mt. SAN ANTONIO COLLEGE
MASTERPLAN
w.o. no. 2004601 03 11 04 walnut, california

CAMPUS VIEWS



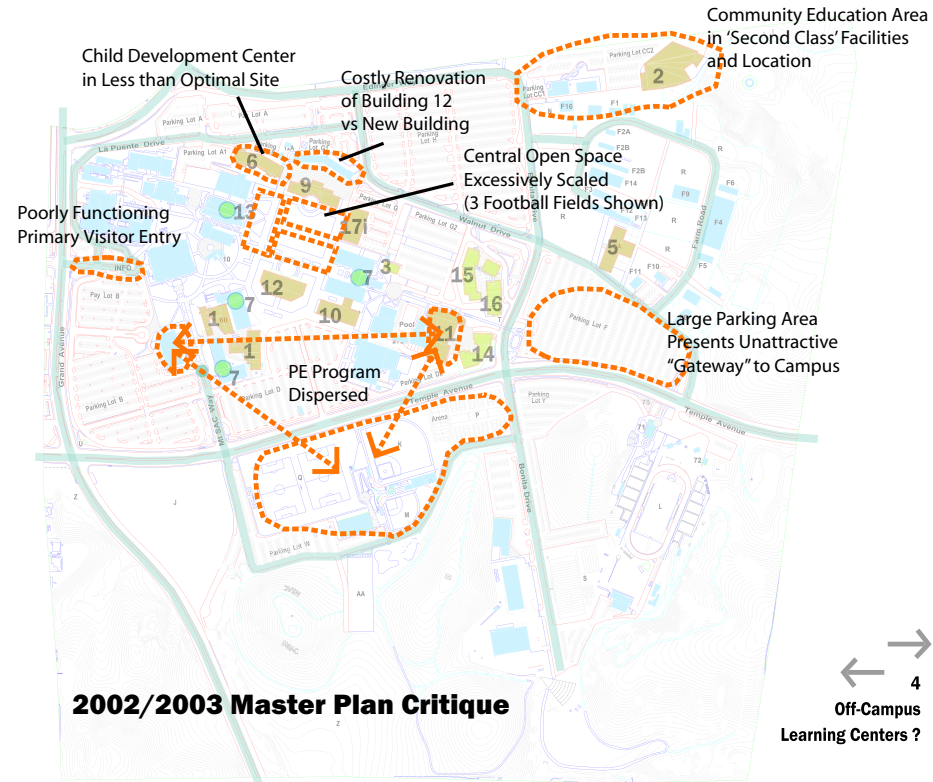
- Site View
- Long Distance View

Mt. SAC Site Views

FEATURES AND CRITIQUES OF THE 2002/2003 MASTER PLAN

The basic objective of the Master Plan Update process was to revisit and modify the existing 2002/2003 Mt. San Antonio College Master Plan, based upon a more comprehensive understanding of several elements that should be considered in the development of community college campus master plans, with an added emphasis on their development within the California Project Funding context: 1) reevaluate the Measure R projects with a view towards maximizing State of California support for construction and operation; 2) reevaluate campus academic priorities, as reflected in the programmatic configuration, size, location and cost of the Measure R and anticipated non-Measure R projects; and 3) rearticulate a vision and set of goals for guiding the physical development of the master plan, including goals that encompass the magnitude and timing of campus growth, the functionality of the campus and all its support systems, and campus aesthetics, (see the above section entitled “Goals for the Physical Development of the Campus”).

The exhibit contained upon this page attempts to offer perspectives and critique of the 2002/2003 Mt. San Antonio College Master Plan, as a further guide used towards reconfiguration of the Master Plan, in light of the criteria cited above.



2002/2003 Master Plan Critique

APPENDIX C: PLANNED PROJECTS

To accommodate the projected future growth of Mt. SAC and to provide modern updated facilities for its academic programs, Mt. SAC leadership, in conjunction with the AC Martin Team, have identified several near-mid-term and long-term projects that will improve the way Mt. San Antonio College functions as an important community institution of higher learning, and that will improve the campus environment, as seen and used by students, faculty, staff and the community. Some of the identified projects are those identified in Measure R, the construction bond initiative passed by the voters in 2002. Some projects are new, as articulated by subsequent analysis and discussion by Campus leadership. Still others contain elements proposed for construction under Measure R, but are now modified to better reflect current academic needs, project construction packaging and phasing, and the leveraging of State-funding/participation. A listing of known future projects, including those under construction or scheduled for near-term occupancy, at the time of publishing this Master Plan Update 2005, follows below. The basic need for many of the projects stems from the need for modernized facilities, several of which will be constructed on land, to be made available as the 1948-1953 'row buildings' are removed from a broad section that spans the Central Campus.

Welding/Air Conditioning Programs

Funding: MSACCD

2005 Status: Complete, Occupied

This Measure R project provides new modernized spaces for the Welding and Air Conditioning programs, replacing aging substandard facilities built in 1948.

Language Center

Funding: MSACCD

2004 Status: Complete, Occupied

This reconfigured Measure R project included the consolidation of the previously scattered Foreign Languages Division programs and English as a Second Language (ESL) into one building. An important modification of the earlier envisioned project relocated the project to the Campus Core area. Through the relocation of ESL programs into the Campus Core, this project also anticipates the removal of the Community Education Campus' temporary structures in the northeast campus (see also Community Education Facility below).

Health Careers Center

Funding: MSACCD

2004 Status: Complete, Occupied

This Measure R project provides a modern facility for the consolidation of all health-related programs into a common facility to facilitate efficient sharing of spaces, equip-

ment and staff. In part, the new facility replaces a temporary facility located south of Temple Avenue, placing it within the Campus Core area to better articulate with other campus programs such as Biology and Anatomy. Further, the facility greatly enhances the growth potential for health programs such as nursing, which are among the fastest growing programs at Mt. SAC, reflecting the market-led regional need for healthcare workers. A functioning Student Health Center is fully integrated into the ground floor of this building.

Science Laboratory Building South

Funding: MSACCD/State

2005 Status: Under Construction

This state-of-the-art laboratory facility accommodates the need for learning and teaching models that offer current technological settings in the biological, physical, chemical, materials and earth sciences. It will be constructed within a holistically configured sciences complex that will include renovated science classrooms in Buildings 7 and 11, and a new math-science facility to contain the Natural Sciences Division math programs, an Exploratorium and faculty offices.

Agricultural Sciences Complex

Funding: MSACCD/State
2005 Status: In Design.

This project modernizes the College Farm facilities by creating a new agricultural sciences classroom/laboratory facility to house the horticulture, animal science and registered veterinary technology programs, by adding various field buildings and through a series of functional and visual improvements to the Farm site.

Child Development Center/Early Childhood Learning Lab

Funding: MSACCD
2005 Status: In Design

The Master Plan 2005 places a new Mt. SAC Child Development Center (CDC) on a site to be created from the southeast corner of Parking Lot H. The new CDC is envisioned as a 200-child-capacity facility with the following major features:

- Protected/fenced southeast outdoor child play area, adjacent to the rear bank above Walnut Drive;
- Convenient, dedicated drop-off and parking area at front, north-facing side of the facility;
- Instructional equipment and furnishings to support childcare, as well as student training.

Business and Computer Technology Center

Funding: MSACCD
2005 Status: In Five-Year Construction Plan

This Measure R-identified project would consolidate Business Division courses, including Business Administration, Accounting, Computer Information Systems (CIS), Family and Consumer Sciences and Office Technology, into one central facility, potentially composed of two closely linked buildings. This unification of programs, accompanied by updated classroom technology, paralleling that used in the private sector, is intended to give students a real-life window into business and office environments.

Design Technology Center (DTC)

Funding: MSACCD/State
2005 Status: In Design

This project will consolidate Campus computer-based design programs, including animation, architecture, graphic design, photography, fashion and geographic information systems (GIS) into one integrated, fully telecommunications-capable and secure facility. The DTC facility will include lab/studio spaces, shared resource, learning and study areas, gallery spaces, computer facilities and a large-assembly auditorium.

Physical Education Projects: Gymnasium

Funding: MSACCD
2005 Status: In Design

This project replaces the existing PE/Gym facility (Building 3), originally built in 1948 with a new modern facility. The new approximately 43,000 GSF facility will include the following main spaces:

- 2 Basketball courts with bleachers
- Weight Room
- P.E. Classroom
- Team Rooms
- Faculty Offices
- Concession space

A modest second level VIP and broadcast area is also under consideration.

The chosen location for the new Gymnasium at the southwest corner of Temple Avenue and Bonita Drive provides the facility with excellent community visibility and access as well as being centrally located with respect to major Physical Educational fields, facilities and parking.

Campus Center

Funding: MSACCD

2005 Status: In Five-Year Construction Plan

To be located adjacent to a newly created Central Campus quad, this facility will become the major Campus and Student Life Center for the Campus, providing food service, indoor and outdoor dining, student, staff and community offices, and meeting rooms.

Community Education Facility (CEF)

Funding: MSACCD

2005 Status: In Five-Year Construction Plan

This project is designed to move the several governmental, community, work opportunities and remedial-type programs from their current, remote and temporary facilities into the Campus Core, accessible to parking and other campus facilities.

Music Expansion

Funding: MSACCD

2005 Status: In Design

This 2-floor project adds additional music rehearsal, practice and related support space to the northside of the existing Performing Arts Center.

Math/Science Building

Funding: MSACCD

2005 Status: In Design

This project combines Measure R-identified math classrooms with other identified needs to co-locate Natural Sciences Division faculty offices in proximity to the evolving Sciences Complex. When complete, the Sciences Complex will be composed of four buildings surrounding a central courtyard: the new South Sciences Laboratory Building, remodeled Buildings 7 and 11, and the proposed Math/Science Building. The Math/Science Building would also contain an Exploratorium space, designed to permit student interactive learning.

Heritage Hall

Funding: Private Donors and MSACCD

2005 Status: Under Study

As a center for regional, national and international competitions in track and field, as well as cross country running events, a number of records have been set at Mt. SAC by numerous well known athletes. An interest has emerged to create a center where photos, films, trophies and other athletic memorabilia can be housed and displayed for public view. The facility is envisioned as having both indoor and outdoor meeting/gathering facilities to hold occasional conferences and to host opening and closing ceremonies associated with events. To be

developed near the entry of the stadium, a 'Wall of Fame', amphitheater and sculpture garden elements are under consideration for the facility.

Future Class/Lab Buildings (2)

Funding: MSACCD

2005 Status: Long Term Project

Given the new layout of campus buildings and pathways as re-envisioned in the 2005 Mt. SAC Master Plan Update, two new building sites have been identified for long-term campus development needs. Tentatively, these sites have been identified for future academic classroom/laboratory buildings, each yielding approximately 16,000 to 17,000 ASF of space, assuming 2-floor structures. One site would be created immediately east of the Central Plant, facing onto the to-be-created quad space south of the planned Design Technology Center Building. This long-term development site would accommodate a 2-floor structure, yielding up to 27,000 GSF of space. The second site would include the area immediately south of Building 26D, which, upon completion of the proposed new campus Pomona Drive entry, would be a prime site with good public access and visibility.

Campus Classroom, Laboratory and Student Services Improvements, Upgrades, Renovations and Remodels

Funding: MSACCD

2005 Status: Various Stages of Planning, Design and Construction

These series of projects, including the remodeling of Buildings 7, 11 and 26 will consolidate, update and renovate various classroom facilities within these and other campus buildings.

Parking Structure

Funding: MSACCD

2005 Status: Under Study

The conceptualization of the 2002 Master Plan had considered the need for additional parking, as the size of the student population served by the campus grew and a parking structure of some size was considered. Ultimately, assumptions were made about the Measure R Off-Campus Centers project, coupled with an aggressive campus parking re-striping program, which, when taken together simultaneously, would reduce on-campus parking demand, while increasing the supply of campus parking in such a way that did not necessitate a parking structure. The 2005 Master Plan Update reevaluated all campus growth assumptions and determined that, in fact, additional parking would be needed on the campus that could only be accommodated through the construction of

a parking structure or structures. Given the array of economic, circulation, accessibility, safety and visual parameters surrounding the planning and design of a parking structure, the optimal solution pointed to the long-term construction of a 3-level, 2,250-space parking facility to be placed on Parking Lot H, being built over time in two project phases. The facility would yield up to an additional 1,500 new campus parking spaces (see also pages 10-13).

Grounds, Landscape and Open Space Projects

Funding: MSACCD

2005 Status: Various Stages of Planning, Design and Construction

A major goal of the 2005 Mt. SAC Master Plan Update is to improve the aesthetic environment of the Mt. SAC Campus. This will be accomplished partially through each new building project and its associated site improvements, contributing to an overall plan for the Campus. Other aesthetic improvements, such as those related to landscaping, improved pathways, walls, campus signs and lighting, will be completed as part of targeted improvement projects, focusing on specific improvements and specific campus areas. Conceptual plans for landscaping, campus exterior lighting, signs and Americans with Disabilities Act (ADA) universal access improvements are outlined elsewhere in this Master Plan Update.

Circulation System and Transportation Improvements

Funding: MSACCD

2005 Status: Various Stages of Planning, Design and Construction

The 2002 Master Plan, included, and the 2005 Mt. SAC Master Plan Update includes various provisions for improving campus vehicular circulation and access. In general, these improvements will be needed, as the campus continues to grow, and as regional traffic flows upon neighboring streets grow in response to continued regional population growth. The anticipated improvements include new traffic signals associated with the new Temple Avenue campus entries, east of Mt. SAC Way and east of Bonita Drive. Roadway improvements include limited capital assistance to the City of Walnut and the deed-ing of land needed for the eventual widening of Temple Avenue east of Grand Avenue (see also pages 10-13).

APPENDIX D: PLANT LISTS

The plants to be used within different zones on the campus are identified in the Landscape Plan Section, located on pages 14 and 15. Groundcovers form an important part of the landscape for the College and are identified in the list on this page. In general, there is an interest in creating a simplified set of plant materials for the campus that are also expressed, with some variation, within various campus zones. Added to this overall goal is the importance of minimizing maintenance costs. The plants identified for use on the campus, therefore, represent an attempt to achieve a combination and balance between these goals.

The use of groundcovers, also following the general campus landscape concept, calls for a gradation character moving from the peripheral areas, predominated by a combination of natural Walnut trees, grass hillsides and parking areas, to the Campus Core, where a more formal and lush landscape will predominate. At the peripheries, the concept calls for the use of lower-maintenance groundcover materials, and those with a reference to the surrounding Walnut and grass hillsides. The use of stone cobbles and decomposed granite, as well as the use of plant materials such as the Fortnight Lily that simulate the visual character of the natural environment, while achieving a low-maintenance requirement, is therefore appropriate. Other groundcovers that are more lush, formal and/or requiring more maintenance are proposed for the various zones of the Campus Core.

Recommended Groundcover List	
Raphiolepis (dwarf varieties)	Indian Hawthorne
Trachelospermum jasminoides	Star Jasmine
Vinca major	Periwinkle
Lonicera japonica	Honeysuckle
Campus Edge Areas	
Diets bicolor	Fortnight Lily (2' shrub)
Rosa floribunda 'White Carpet'	Carpet Rose (1' groundcover)
Inert Materials	
Stone cobble/decomposed granite (parking lots; as minor component of edge areas)	



Cobble



Fortnight Lily



Carpet Rose