

CSU San Marcos

Arboretum Plan

December 2022 | 08122.00002.001







Prepared for:

LandGraphics Landscape & Arborcare 5752 Kearny Villa Road San Diego, CA 92123

Prepared by:

HELIX Environmental Planning, Inc. 1180 Iron Point Road, Suite 130 Folsom, CA 95630

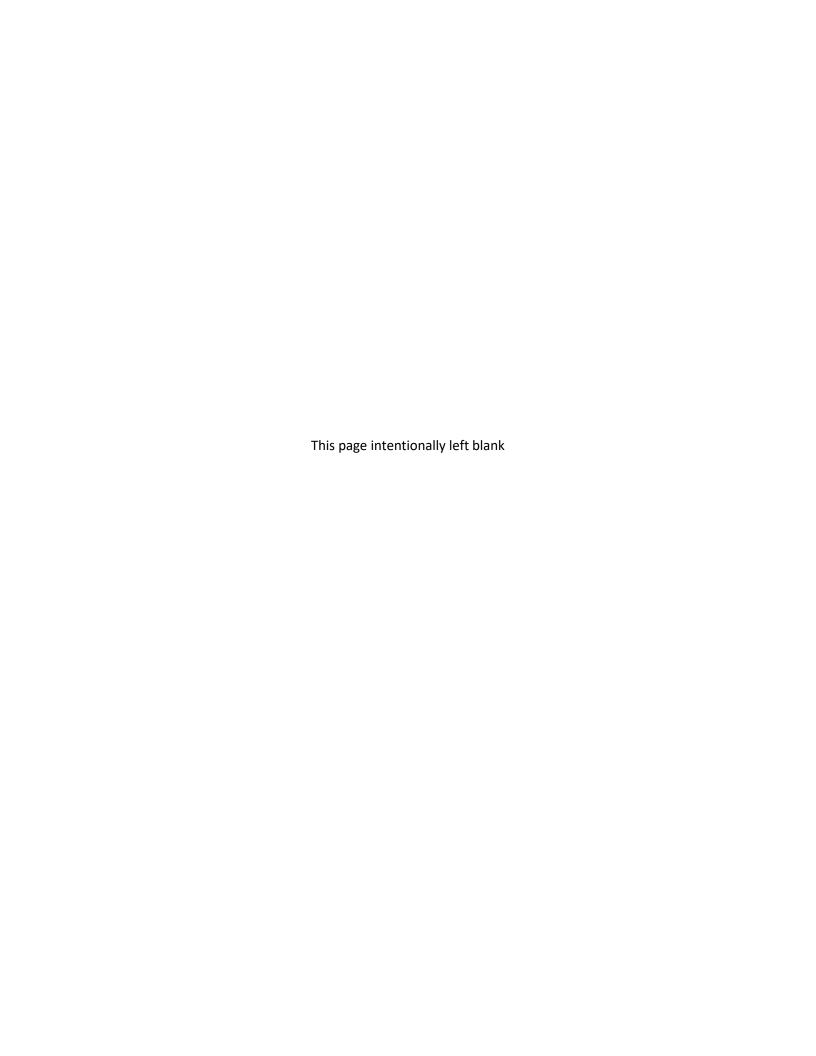


TABLE OF CONTENTS

<u>Section</u>				
1.0	INTROE	DUCTION	1	
2.0	MISSION STATEMENT			
3.0	OBJECTIVES			
4.0	AUDIENCE			
5.0	PLANT TYPES		2	
6.0	MAINTENANCE AND CARE			
7.0	OPERATIONS			
	7.1	Management	3	
	7.2	Donations		
8.0	REFERENCES		5	
8.0	REFERE	NCES		

LIST OF APPENDICES

A Arboretum Walking Path

TABLE OF CONTENTS (cont.)

LIST OF FIGURES

<u>No.</u>	<u>Title</u>	Follows Page
1	Arboretum Boundary	2
	LIST OF TABLES	
<u>No</u> .	<u>Title</u>	<u>Page</u>
1	Tree-Specific Maintenance Activities	3

ACRONYMS AND ABBREVIATIONS

CSUSM California State University San Marcos

FDM Facilities Development and Management Department

FS Facility Services

ISA International Society of Arboriculture

PDC Office of Planning, Design, and Construction

This page intentionally left blank

1.0 INTRODUCTION

Established in 1989 and opened to students in 1992, California State University San Marcos (CSUSM) is the third newest campus of the California State University system. The approximately 306-acre CSUSM campus is located in the City of San Marcos in northern San Diego County. Currently serving approximately 16,000 students, CSUSM is expected to serve approximately 25,000 full-time by 2030 (CSUSM 2022a, 2022b, 2022c). The campus is also open to the public and provides green space and recreational opportunities to the surrounding community.

The CSUSM Facilities Development & Management Department (FDM Department) is responsible for planning, design, construction, and maintenance of all campus facilities and grounds. The FDM Department includes the Office of Planning, Design, and Construction (PDC), Facility Services (FS), and Energy Management and Utility Services (EMUS). This arboretum plan has been prepared to further the FDM Department's goals of maintaining and enhancing the quality learning environment of CSUSM through sustainable development and growth.

The CSUSM Arboretum encompasses the developed areas of campus, currently totaling approximately 150 acres (Figure 1). Permanent open space preserve areas of campus dominated by chaparral or native habitats are not intended to be part of the arboretum.

2.0 MISSION STATEMENT

The mission of the CSUSM Arboretum is to provide opportunities for education and recreation for members of the campus and local communities.

3.0 OBJECTIVES

The objectives of the CSUSM Arboretum are:

- 1. To preserve and care for the existing trees and landscape on campus.
- 2. To promote a resilient and diverse campus tree collection.
- 3. To educate visitors about climate-appropriate and drought tolerant tree species, indigenous trees, general tree care and maintenance, and the benefits provided by trees.
- 4. To provide outdoor education and research opportunities for members of the CSUSM community.
- 5. To foster community involvement with organizations or individuals outside of the CSUSM campus through events, donations, volunteer opportunities, or other activities.

4.0 AUDIENCE

The audience of the CSUSM Arboretum is both the student body, faculty, and staff of the University and members of the public visiting the campus.



5.0 PLANT TYPES

The CSUSM Arboretum Trail (Appendix A) includes 39 different species (CSUSM 2022d). Other landscape plants within the Arboretum include ornamental shrubs and groundcovers. Additional tree species will be added to the arboretum in the future as part of new development in accordance with the campus Master Plan or regular maintenance and replacement of failing trees. The arboretum encompasses the Community Ethnobotany Garden, a living laboratory which is the focal point for the Anthropology Department. Within the Community Ethnobotany Garden, students and professors complete collaborative, community-based research and education and as a cultural event venue. Eight tree species within the Community Ethnobotany Garden are highlighted as a part of the arboretum.

Trees located within the CSUSM Arboretum will be individually numbered and mapped with GPS unit. These data, including the identification number, species, size, age, and condition, will be stored and managed in a georeferenced database. The tree databases will be maintained by the FDM Department.

6.0 MAINTENANCE AND CARE

Maintenance of the CSUSM Arboretum will be overseen by the Facility Services Department who will also provide the necessary labor and staff. Volunteers will be used as a community involvement opportunity and volunteer efforts will be overseen by the Safety, Health, and Sustainability Department and/or Arboretum Committee Members.

The campus landscape areas are divided into three maintenance zones. Zone 1 includes the Arboretum Trail, with labeled tree species and requires the highest intensity maintenance due to its high visibility and number of visitors; it is concentrated around the core campus buildings and primary campus entrance from Craven Road. Zone 2 includes the parking lots, streetscapes, and Campus View Road. Zone 3 is the least intensive maintenance area and is located mostly around the athletic fields, some of the parking lots, and roads.

In addition to the general landscape maintenance activities, such as weeding, fertilizing, pruning, mowing, and lawn aeration, tree-specific maintenance is required. Table 1 summarizes tree maintenance activities, based on industry best practices.





HELIX
Environmental Plannin

Table 1
TREE-SPECIFIC MAINTENANCE ACTIVITIES

Activity	Frequency	Timing and Notes
Inspect tree health	Annually More frequently as required for trees in poor condition.	No limitation. Annual inspections shall be completed by an ISA-Certified Arborist.
Pruning	Structural pruning annually for trees <10 years old. Every 3-5 years for older trees or as required. Crown raising and crown cleaning pruning as required.	Typically fall or spring, but varies by species. For work done between February 15 and September 15, when birds may be actively nesting, trees should be surveyed for active nests prior to pruning.
Root pruning	As needed to minimize conflicts with infrastructure.	Evaluate alternative long-term solutions to expand available root volume such as installing root channels or subsurface soil boxes prior to pruning.
Inspect tree stakes and ties	Quarterly	In first year after planting only. Then remove ties. Small stakes may remain for tree protection.
Fertilize	Annually More frequently as needed for fruit trees.	As required for species.
Tree Planting/ Replacement	As Needed	Replace trees which are dying or recommended for removal by an arborist with like species, or with alternative climate-adapted species within 6 months of removal. Native tree species that cannot be replaced in kind in the original location will be replaced in an alternate location on campus. Replacement trees shall be planted with setbacks from paving and utilities and use of root barriers consistent with campus planning standards.

7.0 OPERATIONS

7.1 MANAGEMENT

Management of the CSUSM Arboretum will be overseen by the Arboretum Committee, a group consisting of one member from the Sustainability Management Team, one professor, three members from FS, and one student member, and one community member. As individual members of the committee leave, replacements will be appointed from their same office, department, or group. Additional at-large members may be appointed to the committee as needed.

The Arboretum Committee is responsible for ensuring that the goals of the CSUSM Arboretum are supported by their respective offices and updating this Arboretum Plan periodically as required.



7.2 DONATIONS

The CSUSM Arboretum will develop a tree sponsor program that will allow donors to contribute money for the planting and initial care of selected trees. The sponsorship program will be based on available planting locations. Species will be selected in accordance with the goals of this Arboretum Plan and other applicable campus policies. Sponsorship rates will be reviewed annually by the Arboretum Committee.



8.0 REFERENCES

California State University San Marcos (CSUSM). 2022a. July. *About CSUSM*. Available at: https://www.csusm.edu/about.html.

2022b. August. Campus History. Available at: https://www.csusm.edu/about/facts/history.html.

2022c. August. *Campus Master Plan*. Available at: https://www.csusm.edu/pdc/campus-master-plan/index.html.

2022d. September. *Landscaping Map*. Available at https://www.csusm.edu/facilities/images/landscaping/landscaping.pdf.



This page intentionally left blank



Appendix A

Arboretum Walking Path

