



FOOTHILL COLLEGE

Facilities Master Plan

PaRC Meeting
4 May 2016

Agenda

- Planning Process
- Facilities Master Plan Document
- Sustainability Workshop
- Draft Recommendations
- Sunnyvale Center Master Plan
- Next Steps



Planning Process



- ✓ Organize
- ✓ Schedule
- ✓ Vision

- ✓ Assess
- ✓ Link
- ✓ Frame

- ✓ Develop
- ✓ Evaluate
- ✓ Strategize

- ✓ Share
- ✓ Discuss
- ✓ Develop

- ☐ Draft
- ☐ Share
- ☐ Approve

Project Timeline

FOOTHILL COLLEGE Facilities Master Plan

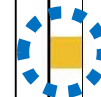
2/12/2016

2015

2016

Gensler

2/12/2016		SEP				OCT				NOV				DEC				JAN				FEB				MAR				APR				MAY				JUNE						
		7	14	21	28	5	12	19	26	3	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	29	7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
1	PREPARE																																											
	Define project goals																																											
	Identify key stakeholders + participation																																											
	Confirm project scope + timeline																																											
2	COLLECT / ANALYZE																																											
	Collect site/facilities information																																											
	Conduct site visits																																											
	COMMITTEE MEETING #1 (Oct 13)																																											
	Analyze existing conditions																																											
	Collect educational planning data																																											
	Analyze data / develop FP Space Program																																											
	COMMITTEE MEETING #2 (Nov 10)																																											
3	EXPLORE																																											
	Develop preliminary options																																											
	COMMITTEE MEETING #3 (Dec 8)																																											
	Develop options																																											
	Strategize phasing + funding options																																											
	COMMITTEE MEETING #4 (Jan 12)																																											
4	RECOMMEND / SHARE																																											
	Develop preliminary recommendations																																											
	COMMITTEE MEETING #5 (Feb 9)																																											
	Develop recommendations																																											
	SUSTAINABILITY WORKSHOP (Mar 8)																																											
	COMMITTEE MEETING #6 (Apr 12)																																											
5	DOCUMENT / APPROVE																																											
	Develop draft FMP document																																											
	College review																																											
	Finalize 2016 FMP																																											
	PARC MEETING																																											
	BOARD MEETING																																											



Foothill De Anza CCD 2016 Facilities Master Plan

Document Organization





FOOTHILL-DE ANZA
Community College District

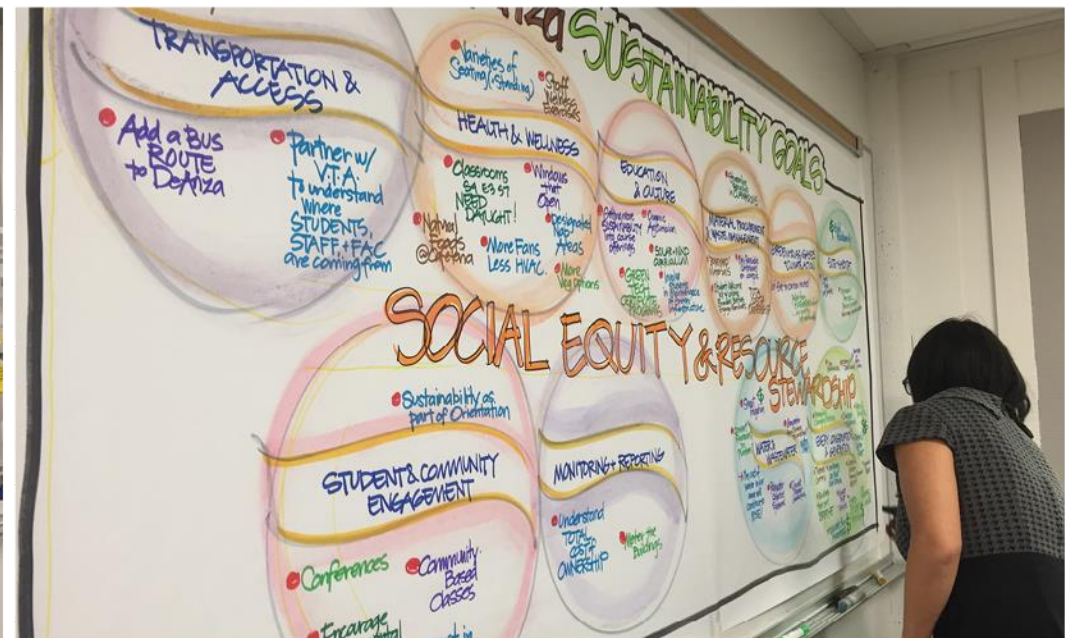
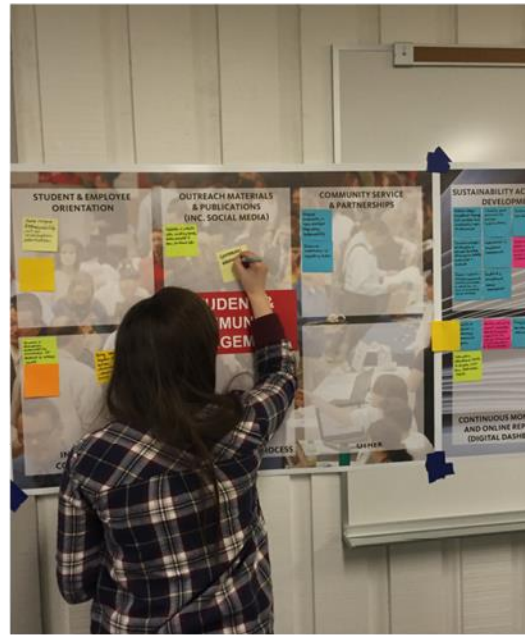


Regional Context



SUSTAINABILITY

Planning for Sustainability

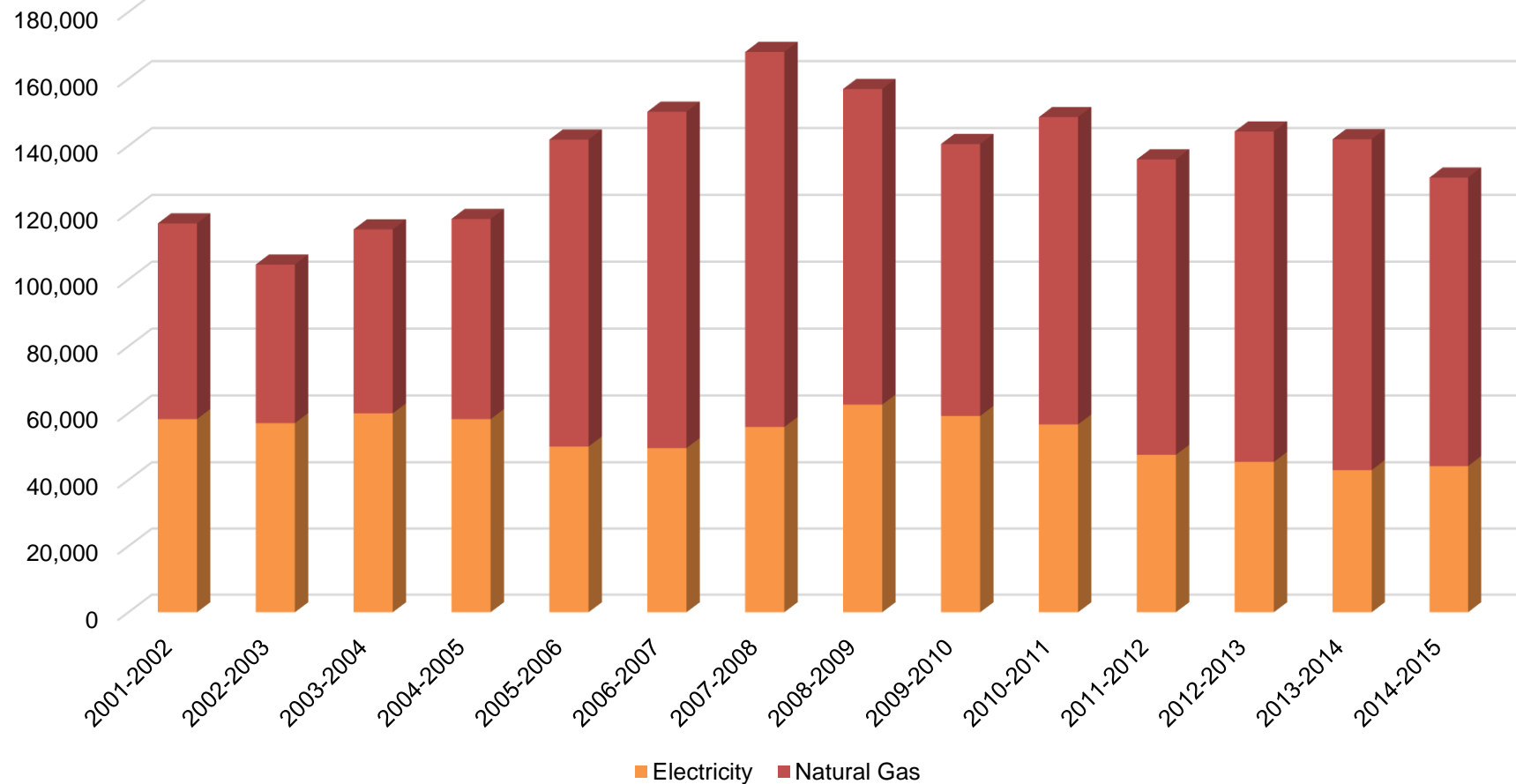


Energy Conservation & Generation:

Energy Consumption – FHDA

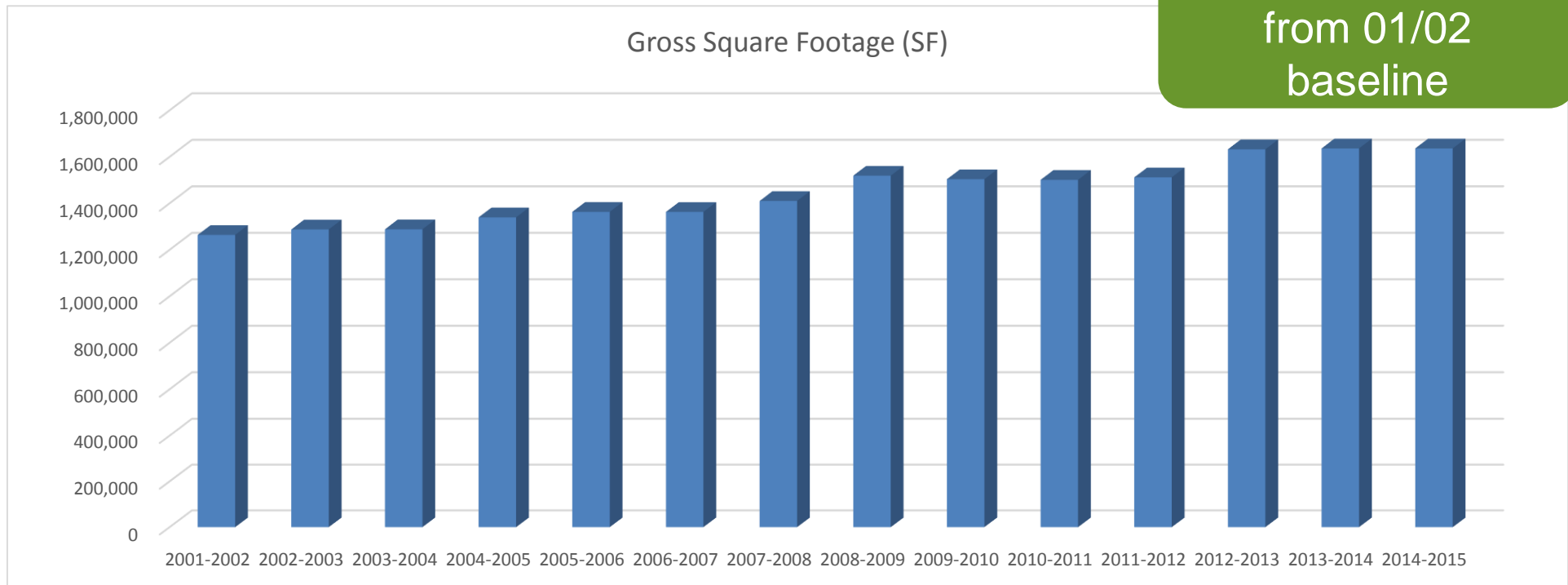
11.7% increase
from 01/02
baseline

Total Imported Energy Consumption (MBtu)



Energy Conservation & Generation:

Growth in GSF – FHDA



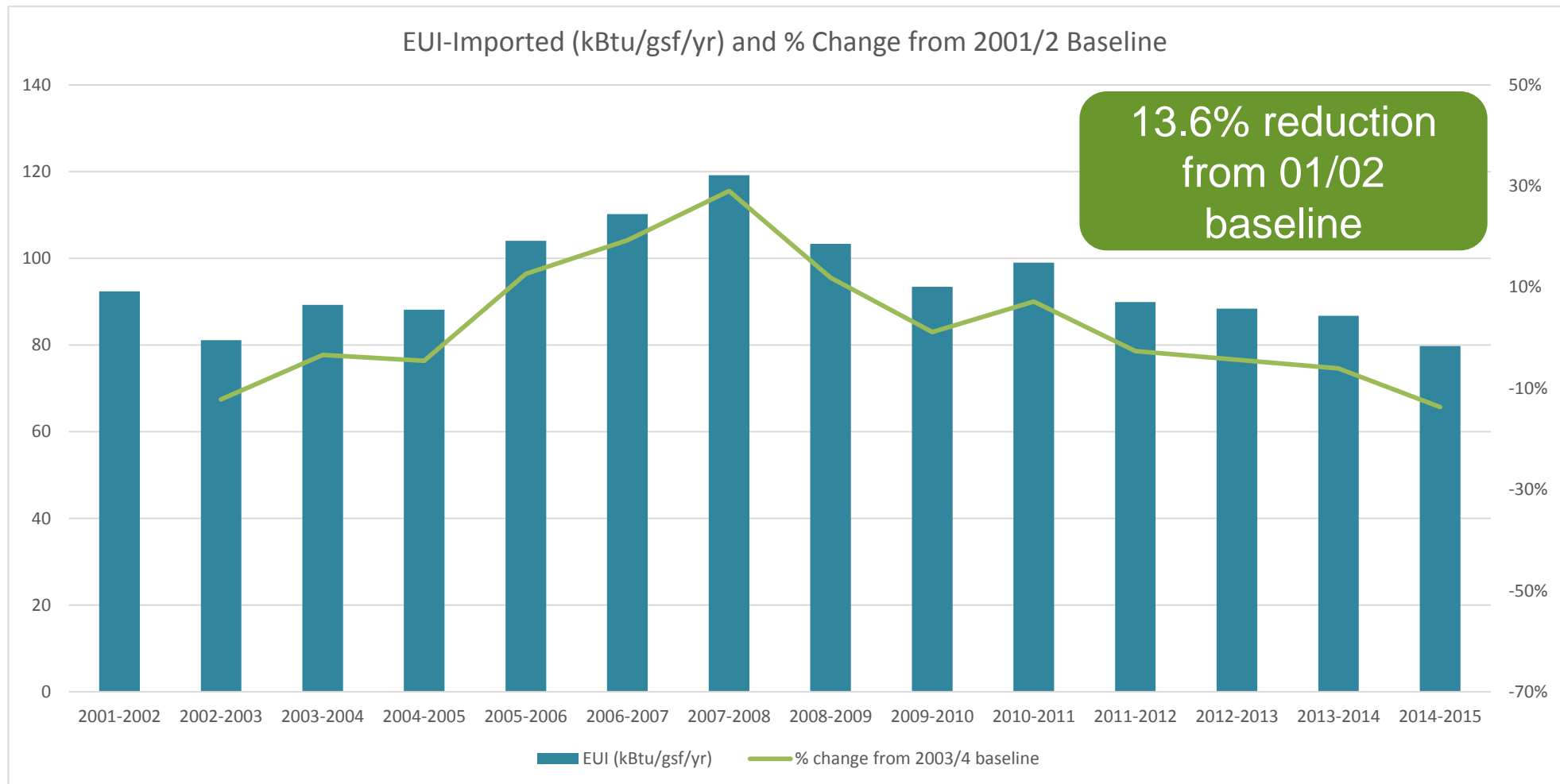
DA – Kirsch Center



FH – Physical Sciences + Engineering Center

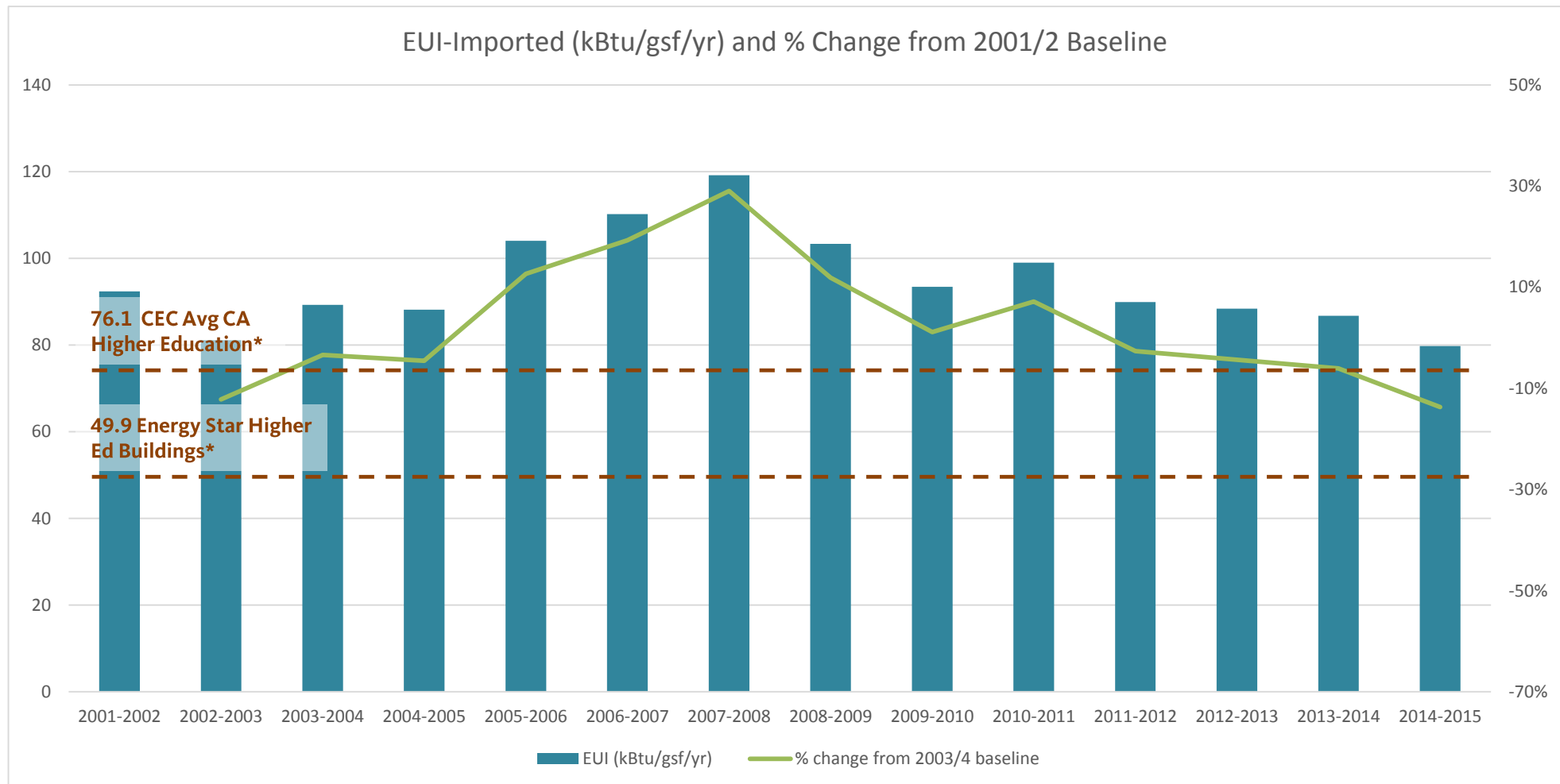
Energy Conservation & Generation:

EUI – FHDA



Energy Conservation & Generation:

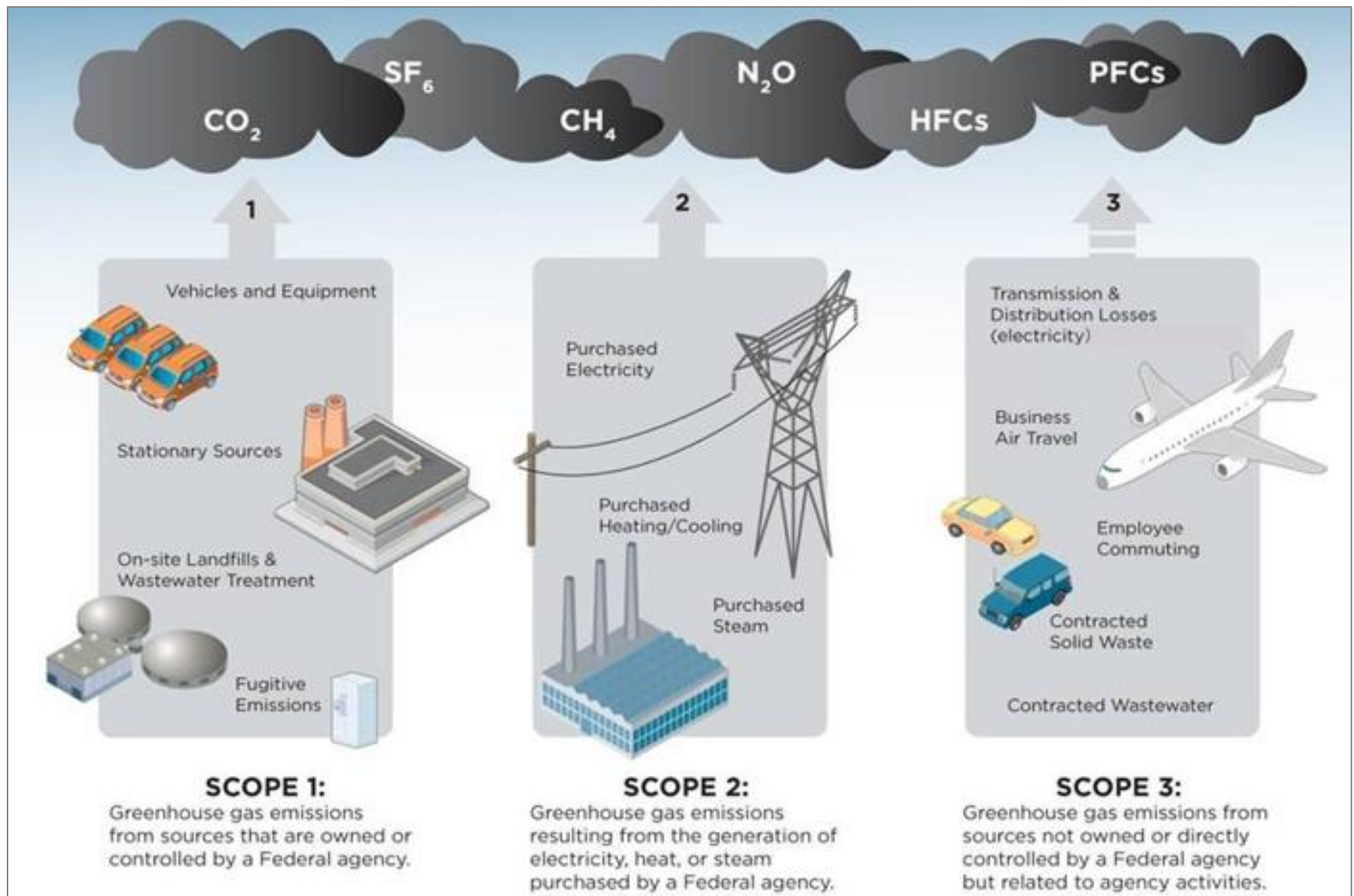
EUI – Benchmarks



*Note –CEC and Energy Star values are for total EUI, not just imported

Carbon & Climate Action:

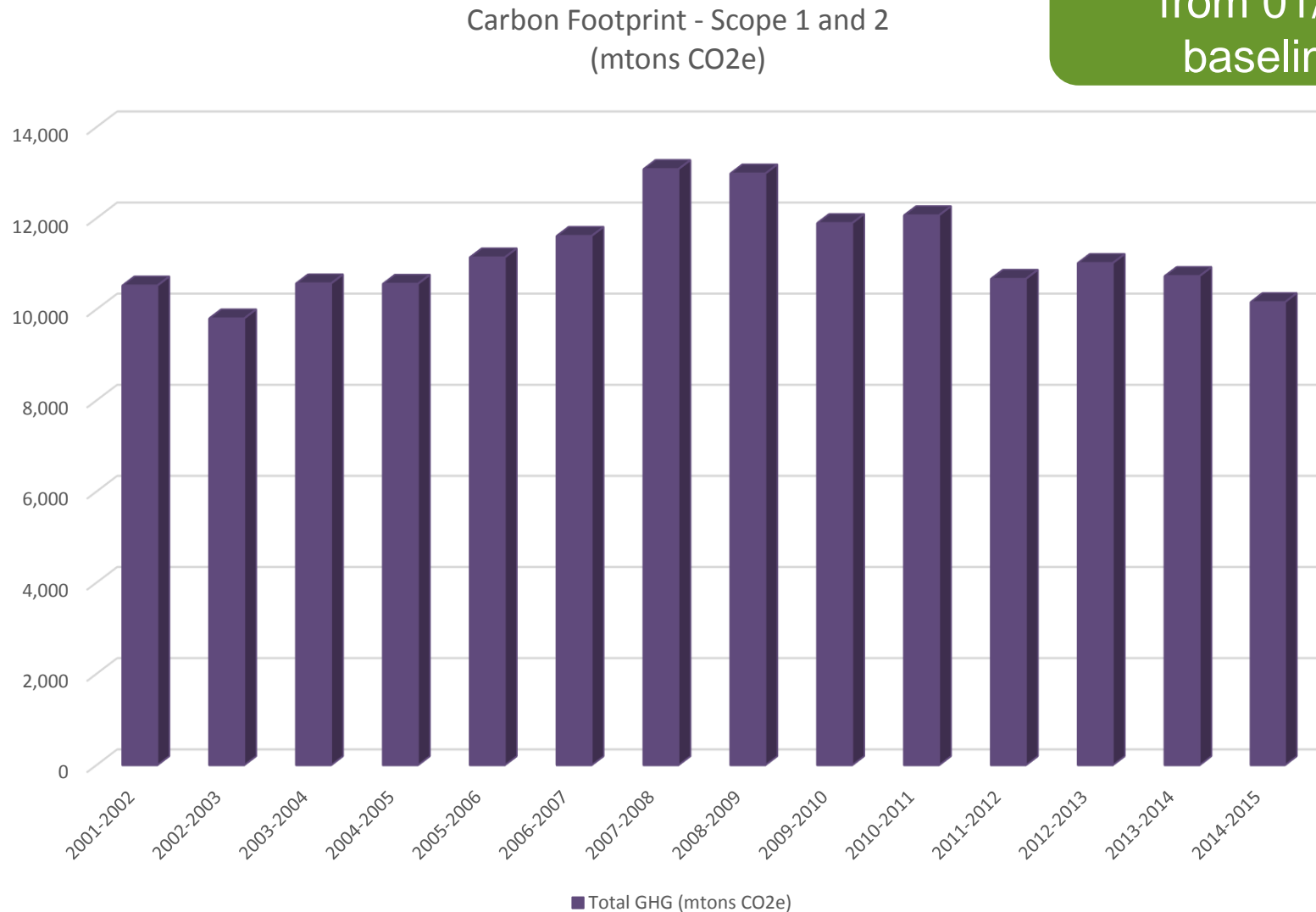
Typical GHG Sources



Carbon & Climate Action:

GHG Scope 1&2

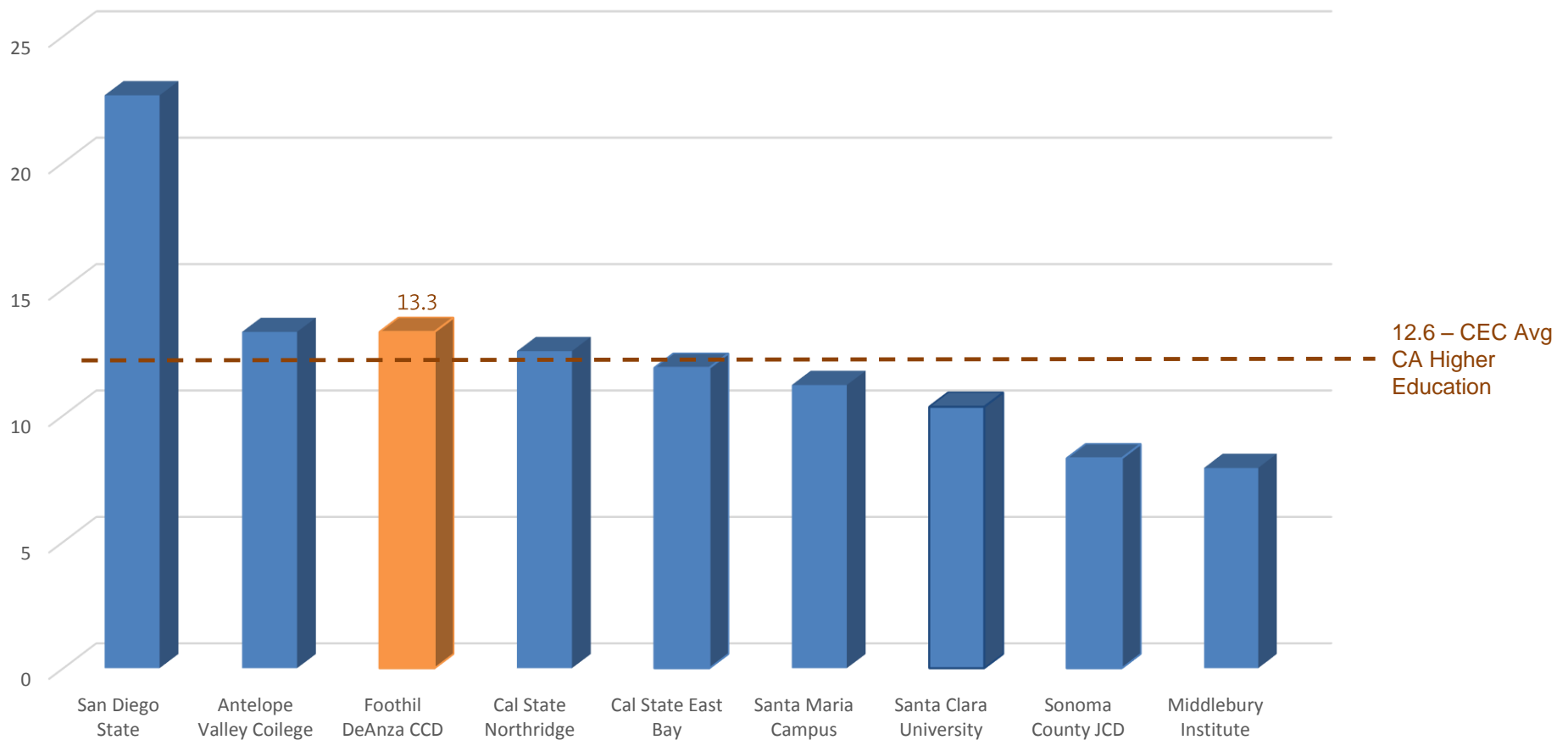
3.5% reduction
from 01/02
baseline



Carbon & Climate Action:

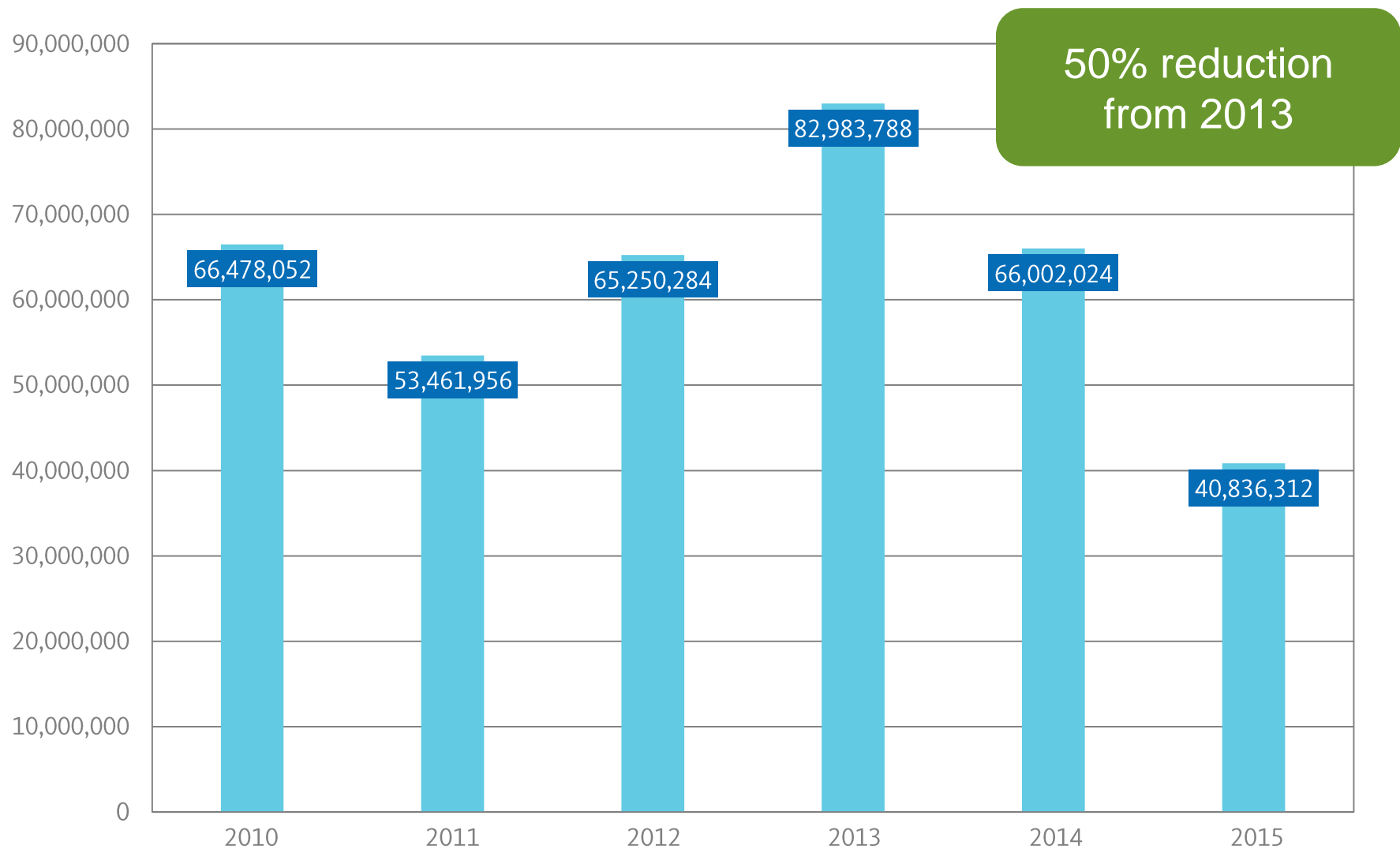
GHG Scope 1&2 – Benchmark Comparisons

GHG Emissions - Scope 1 & 2
(lbs CO₂e/gsf)
2013 to 2015 reporting



Water Use & Reuse:

Water Use – District Wide



Visioning



Foothill-DeAnza Sustainability Workshop

09/08/2016

OVERVIEW OF SUSTAINABILITY AT DE-ANZA

- Operations, Landscape, Purchasing
- LEED Buildings
- Photovoltaics + Electric Charging
- Moving Towards ENERGY EFFICIENT LIGHTING
- BIKE RACKS
- Waste Reduction: 78% Diversion from Landfill
- Computerized Irrigation Controls
- Landscaping: Drought-Tolerant
- GreenBiz Certification w/ City of Cupertino

We have a strong commitment & passion for Sustainability

FACILITIES MASTER PLAN Preliminary Draft in May
Finalize Facilities Master Plan in June

INTRODUCTIONS: Sustainability Goals + "Guilty Pleasures"



Themes

OVERVIEW OF SUSTAINABILITY @ FOOTHILL

- LEED
- Sustainability Report Card
- P.V. Parking
- Electrical Consumption offset by Self-Generated P.V. Electricity
- 13.6% EUI Reduction
- CO2E Reduction 25.4%
- Electricity consumed could be cleaner (would bring down GHG)
- 20% Reduction in Water use since 2013
- DISTRICT SUSTAINABILITY OVERVIEW highlights

Let's Set Sustainability Goals!
Including how we nourish the communities we engage with

RESOURCE STEWARDSHIP & SOCIAL EQUITY

Setting Sustainability Goals - 10 Themes

Resource Stewardship



Material Procurement & Waste Management



Greenhouse Gases & Climate Action



Site & Habitat



Water & Wastewater



Energy Conservation & Generation

Social Equity



Transportation & Access



Health & Wellness



Education & Culture

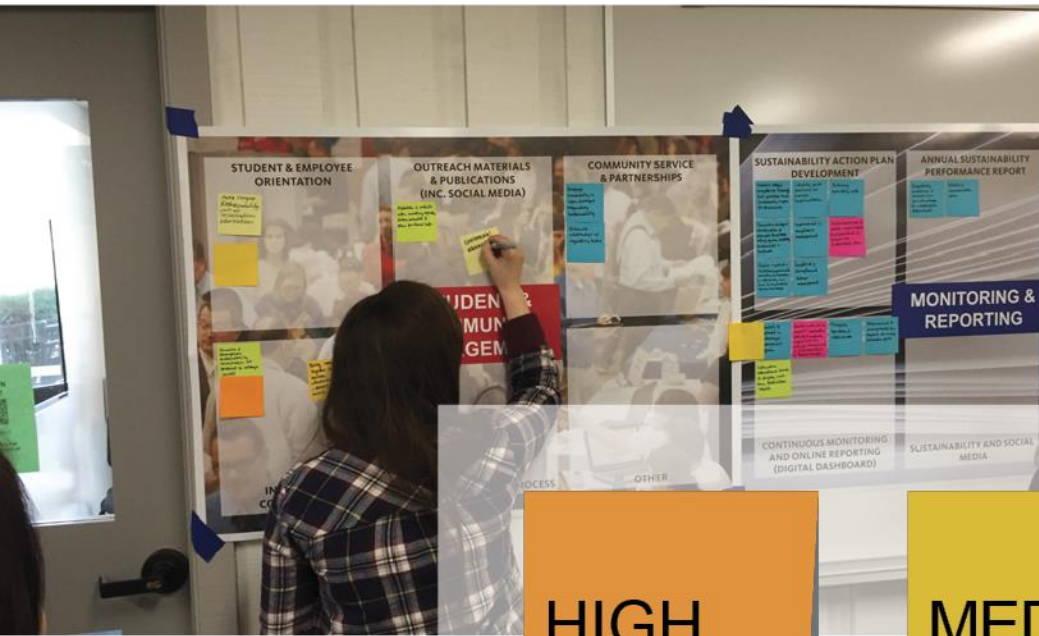


Student & Community Engagement



Monitoring & Reporting

Setting Priorities



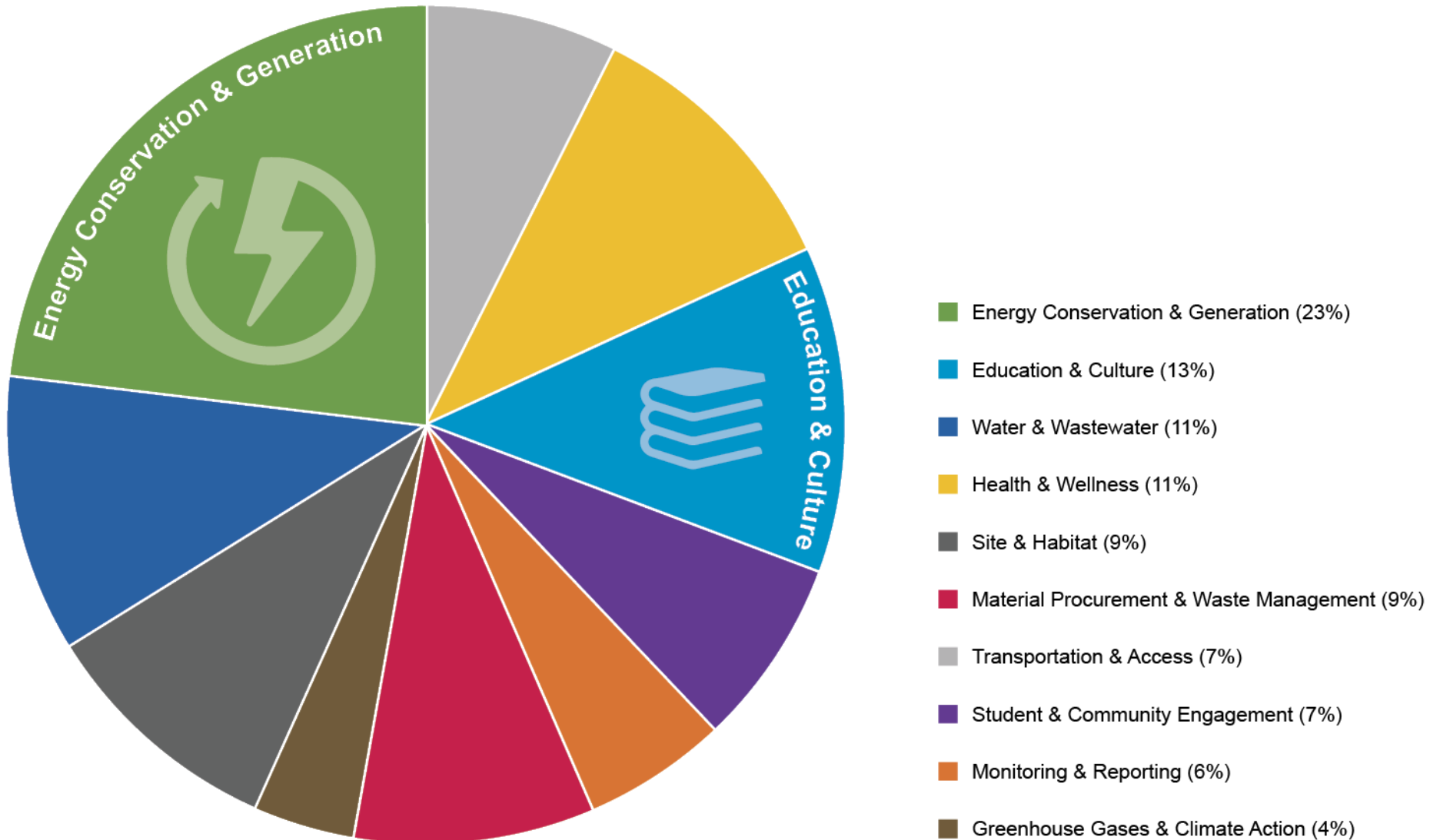
HIGH
PRIORITY

MEDIUM
PRIORITY

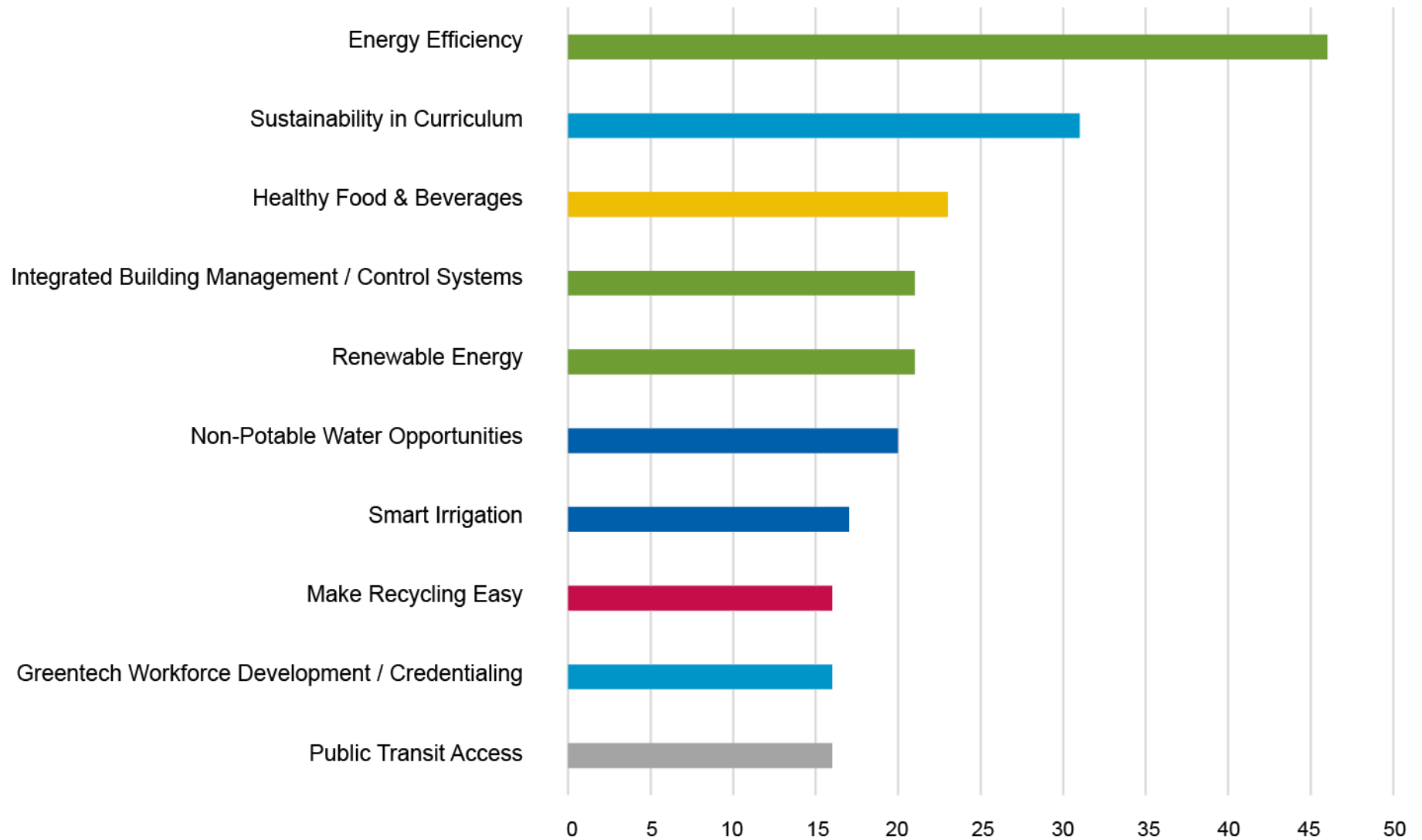
LOW
PRIORITY



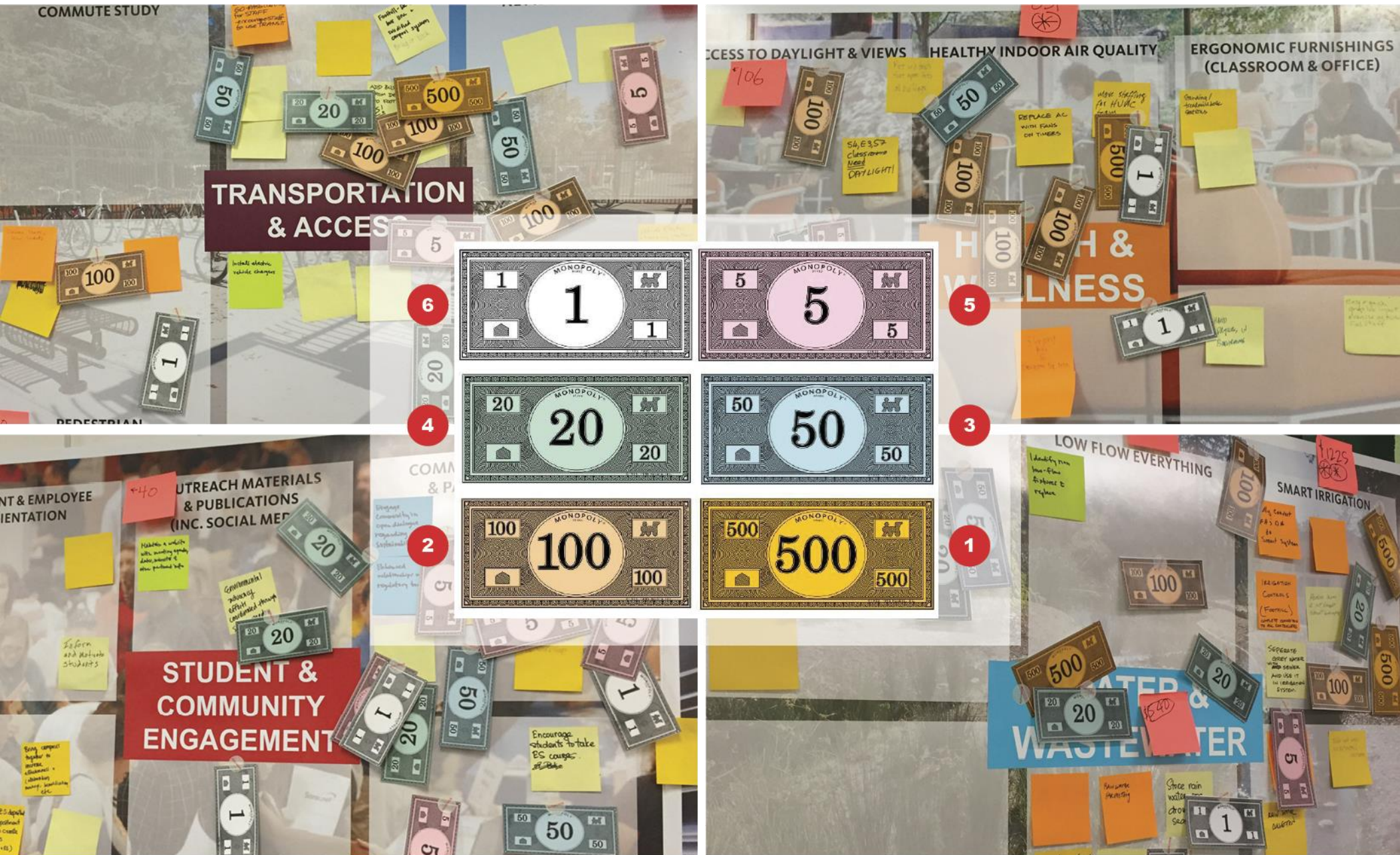
Priorities by Themes



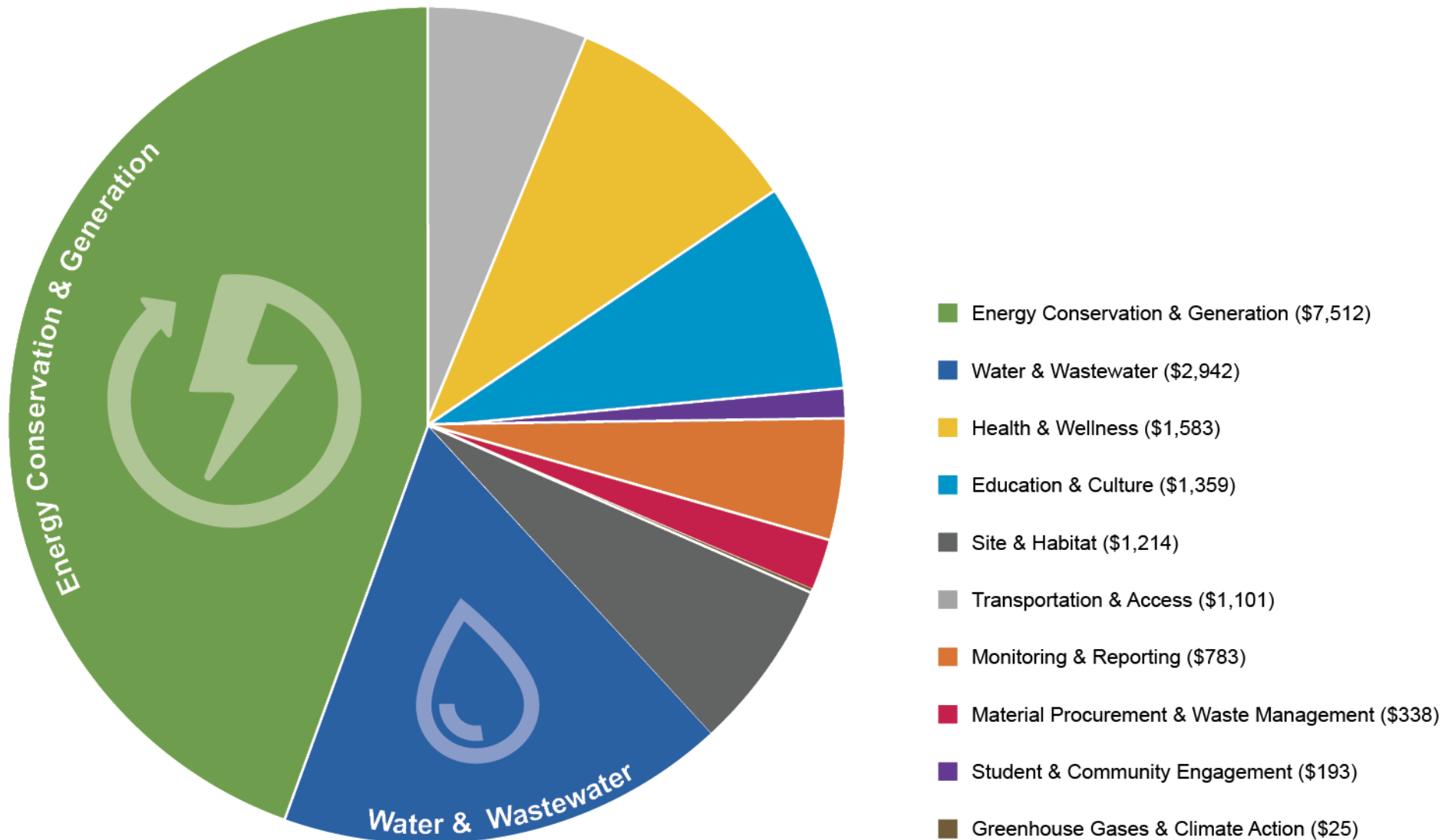
Priorities by Topics (Top 10)



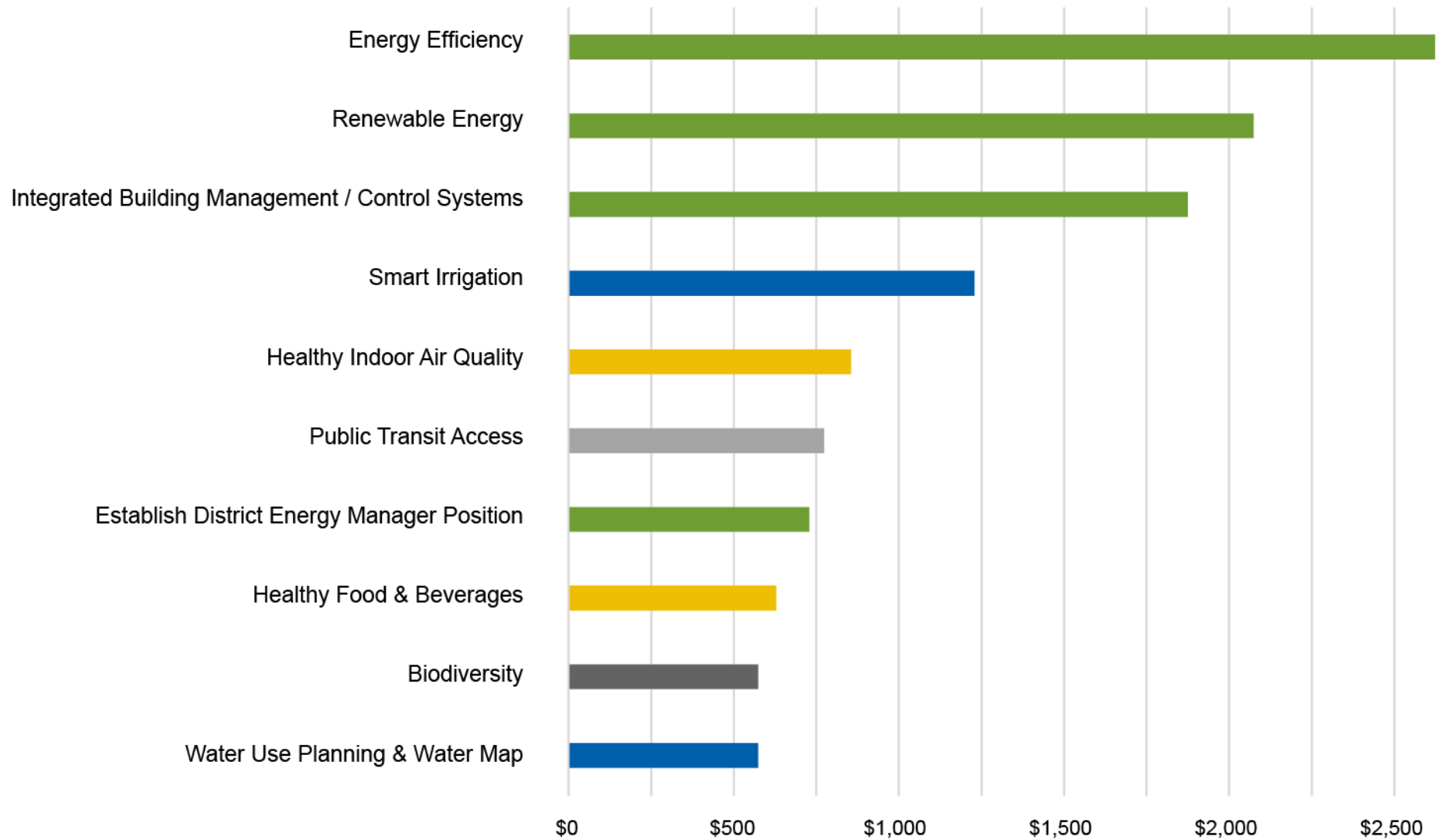
Prioritizing Investments



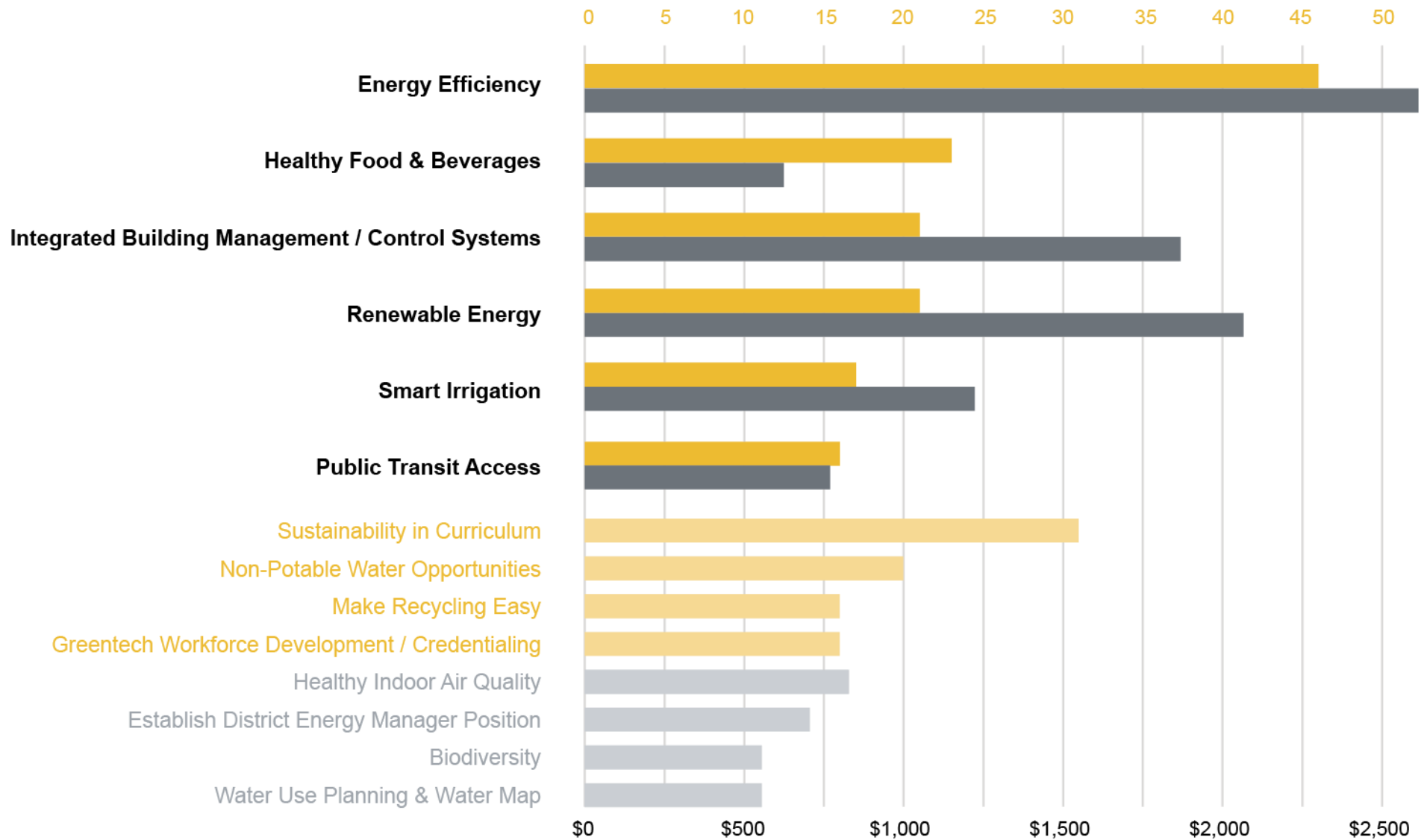
Investments by Themes



Investments by Topics (Top 10)

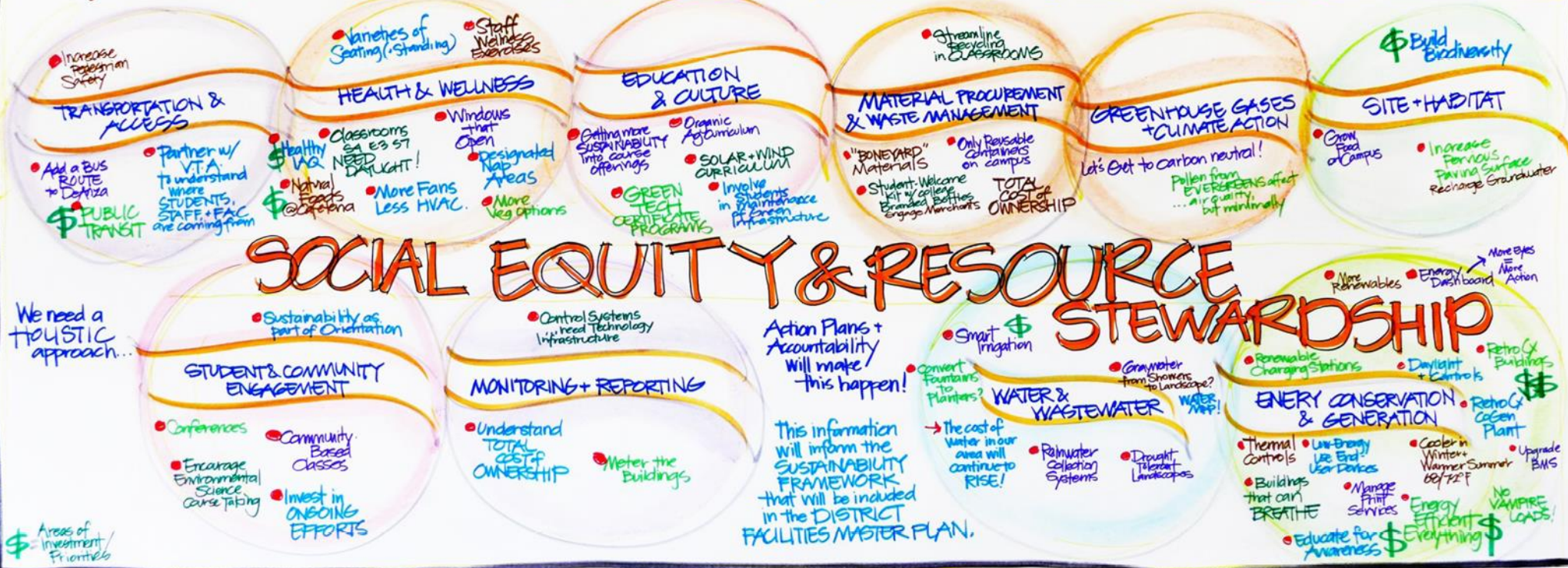


Priorities vs. Investments (Top 10 Themes)



Sustainability Goals

Foothill-DeAnza SUSTAINABILITY GOALS



Sustainability Goals

Six Areas of Focus



Energy

Continue as a leader in energy efficiency, manage energy use at district level



Water

Manage building and site water use to conserve water



Health

Promote healthy living culture, and provide a safe and healthy environment



Educate

Nurture environmental stewardship and literacy across the campus, educate and prepare students for the green workforce



Monitor

Set high bars for building performance goals, with consistent monitoring and routinely report



Recycle

Promote a culture of reduce, reuse and recycle

Sustainability Goals

Energy

Continue as a leader in energy efficiency, manage energy use at district level

Reduce Energy Consumption / Increase Energy Efficiency

- Use efficient appliances, equipment and computers
- Encourage change of behavior in lighting and HVAC use

Increase Self-generated Energy Capacity

- Incorporate renewable energy at appropriate locations

District-wide Energy Management

- Establish new Building Management System for entire district
- Establish District Energy Manager Position
- Establish District-wide guidelines for heating and cooling of facilities

Water

Manage building and site water use to conserve water

Water Use Reduction and Control / Water Use Planning & Water Map

- Optimize building water efficiency

Incorporate Smart Irrigation / Non-Potable Water Opportunities

- Incorporate xeriscape / drought-tolerant plants
- Convert current irrigation system to smart system
- Encourage rainwater harvesting

Health

Promote healthy living culture, and provide a safe and healthy environment

Provide Healthy Food & Beverages

- Provide natural / organic food at cafeteria

Improve Indoor /Outdoor Air Quality

- Provide access to natural ventilation + light through operable windows
- Commit to initiate tangible actions to reduce greenhouse gases

Provide Public Transit Access

- Create Foothill-De Anza bus line and/or carpool system

Be Responsible for Environment Health and Biodiversity

- Commit to ecologically responsible landscaping, installation and maintenance

Sustainability Goals (continued)



Educate

Nurture environmental stewardship and literacy across the campus, educate and prepare students for the green workforce

Engage Campus Community in Sustainability Awareness

- Develop themes and messages to encourage and promote sustainability practices across the campus

Promote Sustainability in Curriculum

- Create additional curriculum and program on sustainability and green workforce,
- i.e., environmental education, renewable energy and energy management, and organic agriculture
- Broaden on-site green-collar workforce training program



Monitor

Set up high bars for building performance goals, with consistent monitoring and routinely report

Promote Green Building Construction and Renovation

- Outperform Title 24 Standards for all new buildings
- Target for LEED Certification for all new buildings

Monitor and Report

- Develop methods to monitor consumption activity and routinely report



Recycle

Promote a culture of reduce, reuse and recycle

Hazardous and Solid Waste Reduction and Control / Minimize Waste Generation

- Maximize use of recyclable materials
- Make recycling easy by providing paper recycling receptacles in classrooms

Green Purchasing and Procurement Controls in the College Supply Chain

- Strongly encourage the use of vendors that demonstrate their commitment to sustainability
- Implement managed print service



FOOTHILL
COLLEGE

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INTRODUCTION

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- Vision, Mission and Values
- Purpose of the Facilities Master Plan
- Planning Process

FOOTHILL CAMPUS ANALYSIS

- Campus Context
- Campus Plan
- Campus Development History
- Campus Zoning
- Campus Access
- Vehicular Circulation + Parking
- Pedestrian Access
- Open Space

FOOTHILL CAMPUS RECOMMENDATIONS

- Facilities Planning Principles
- Summary of Recommendations
- Facilities Projects
- Site Development Projects
- General Recommendations

SUNNYVALE CENTER

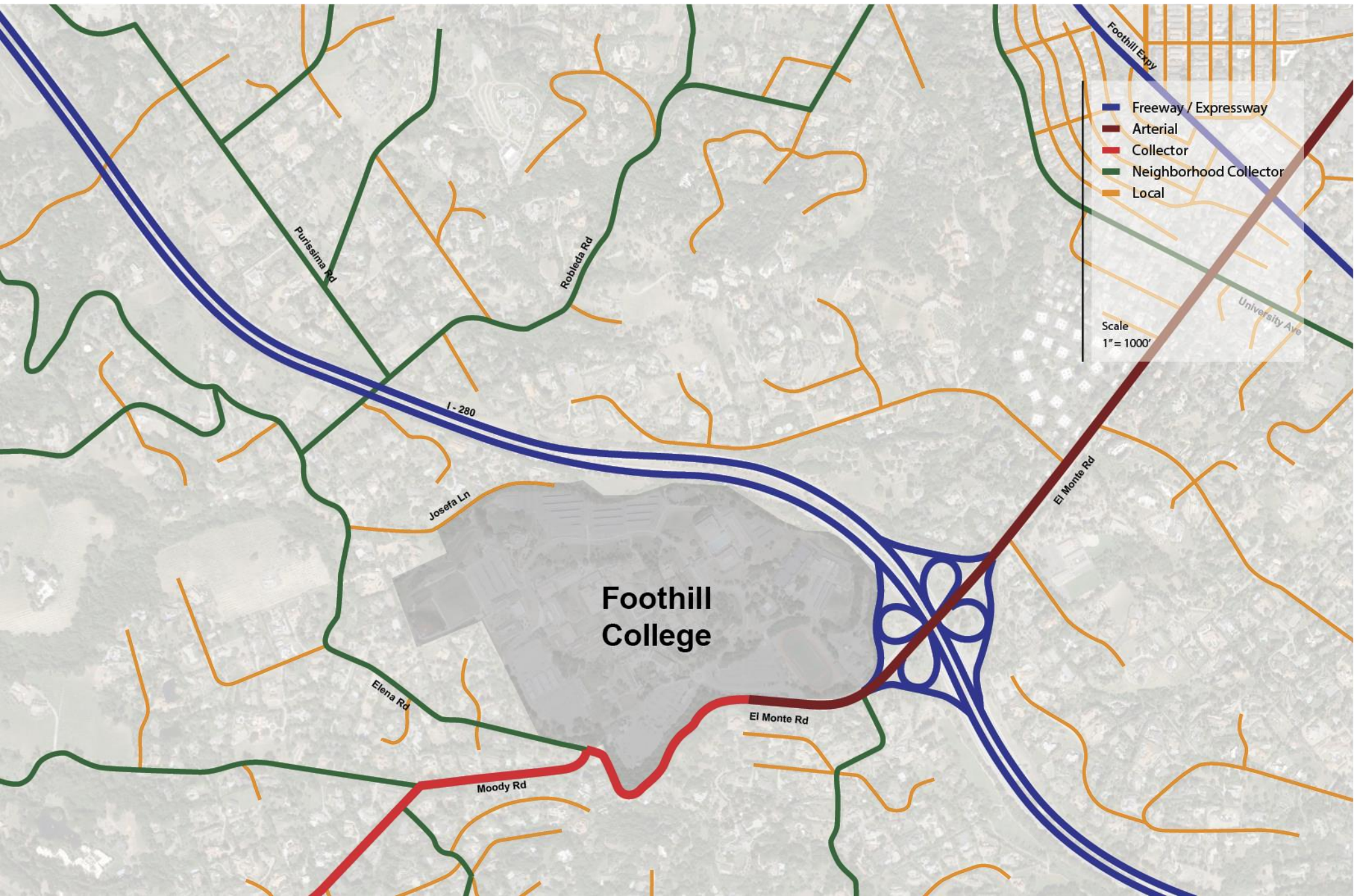
- Master Plan Recommendations

APPENDIX

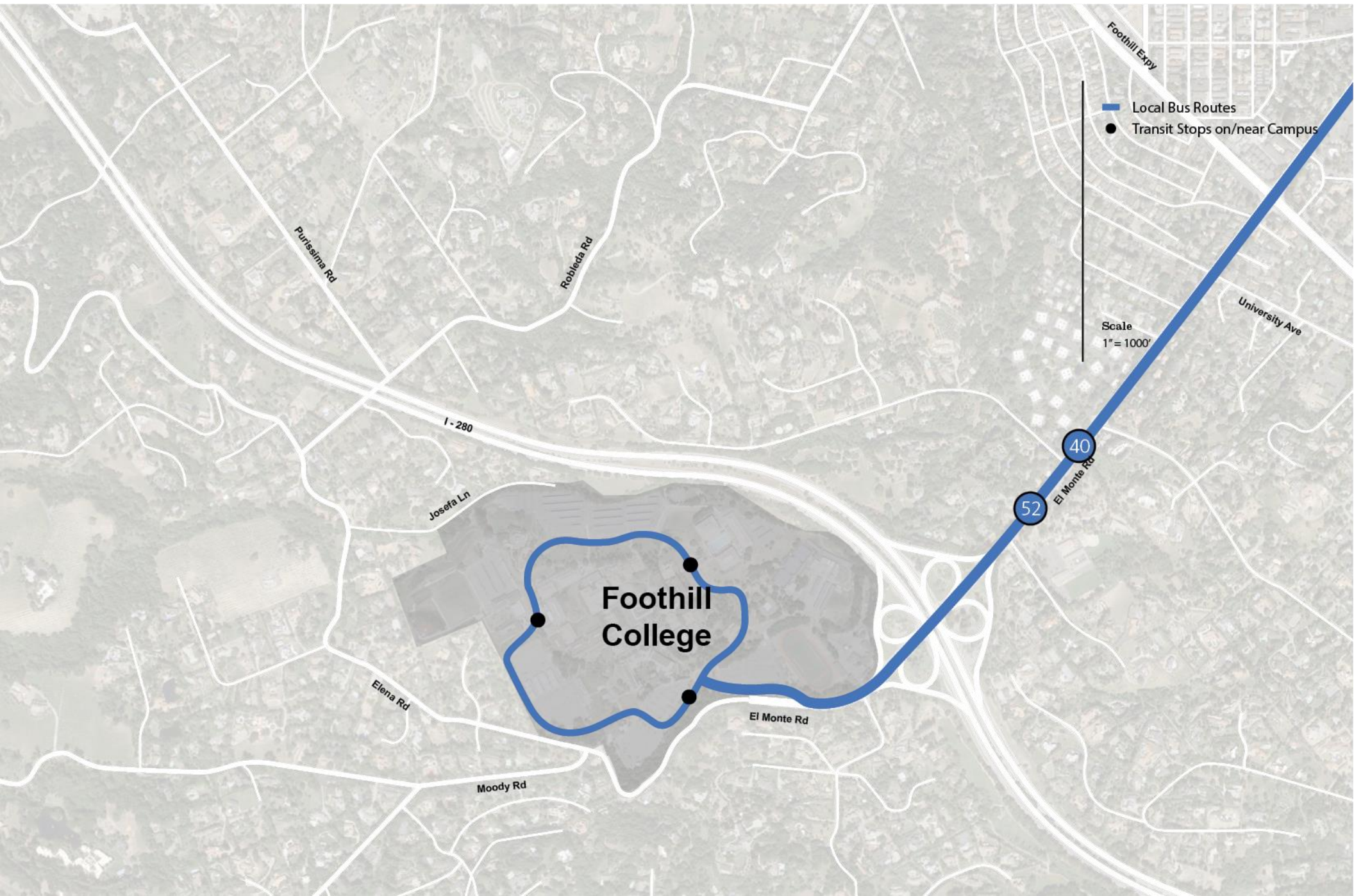
- Planning Data Analysis

FOOTHILL CAMPUS ANALYSIS

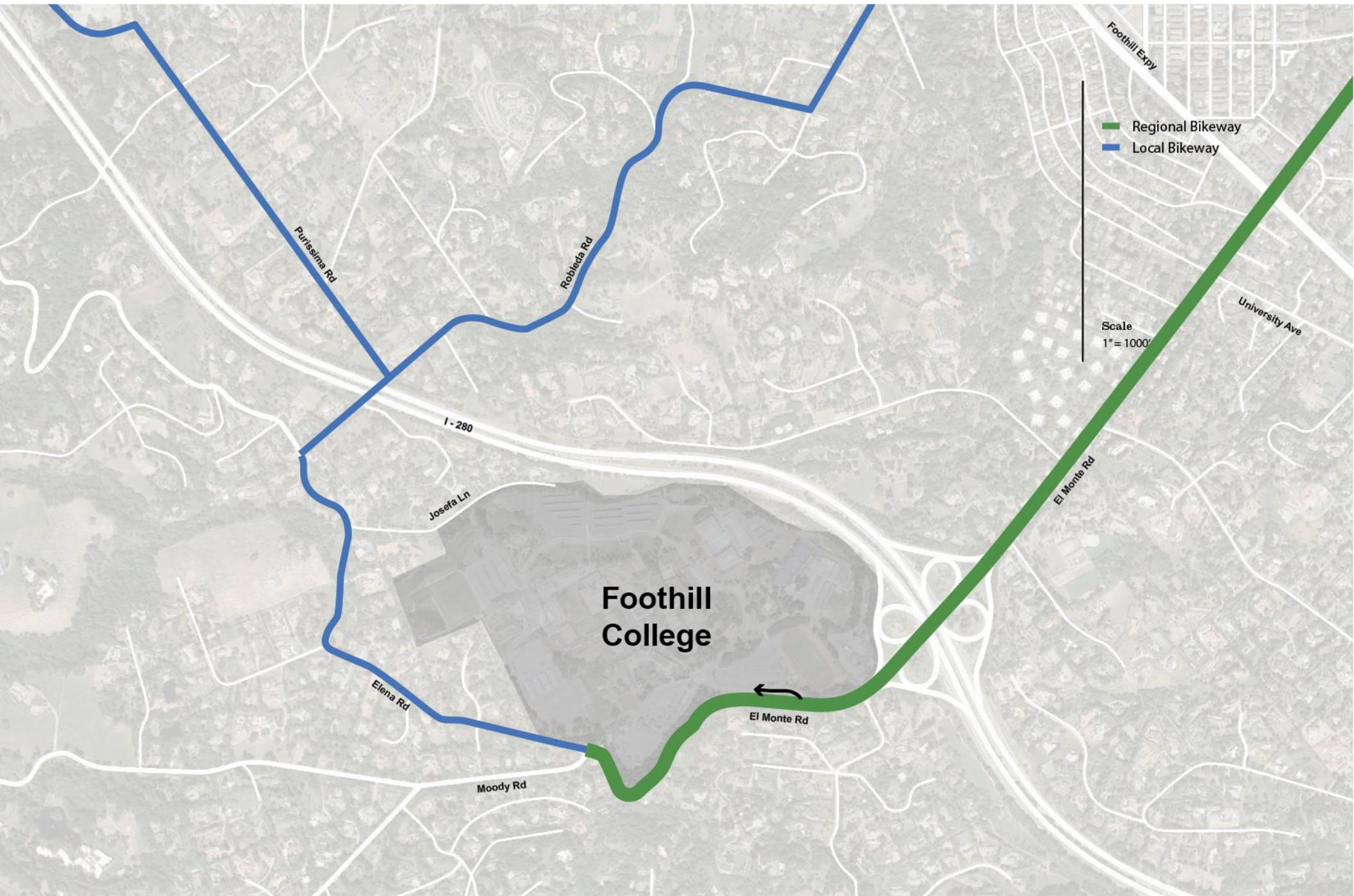
Campus Context - Road Network



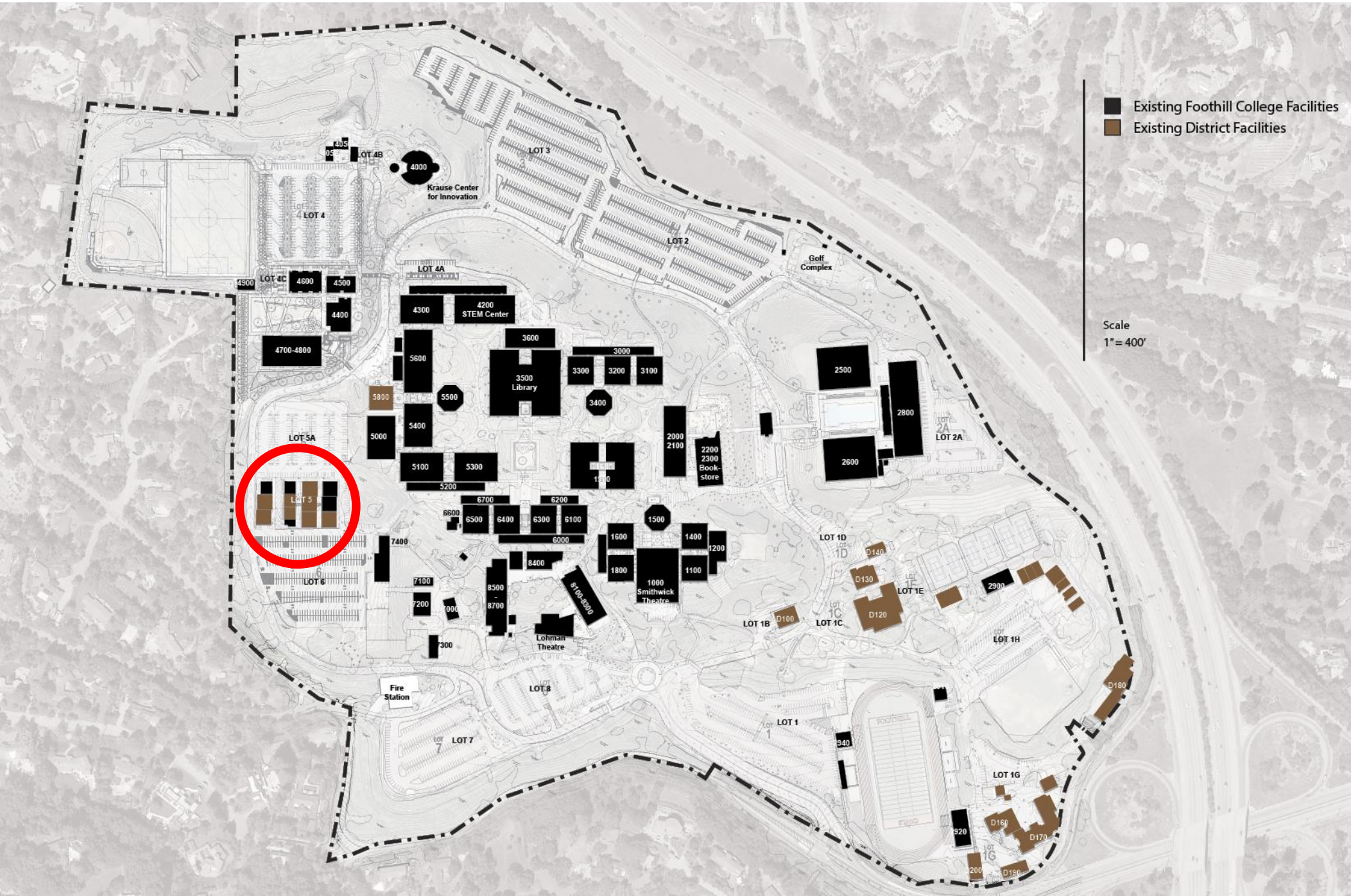
Campus Context - Transit Access



Campus Context - Bike Access



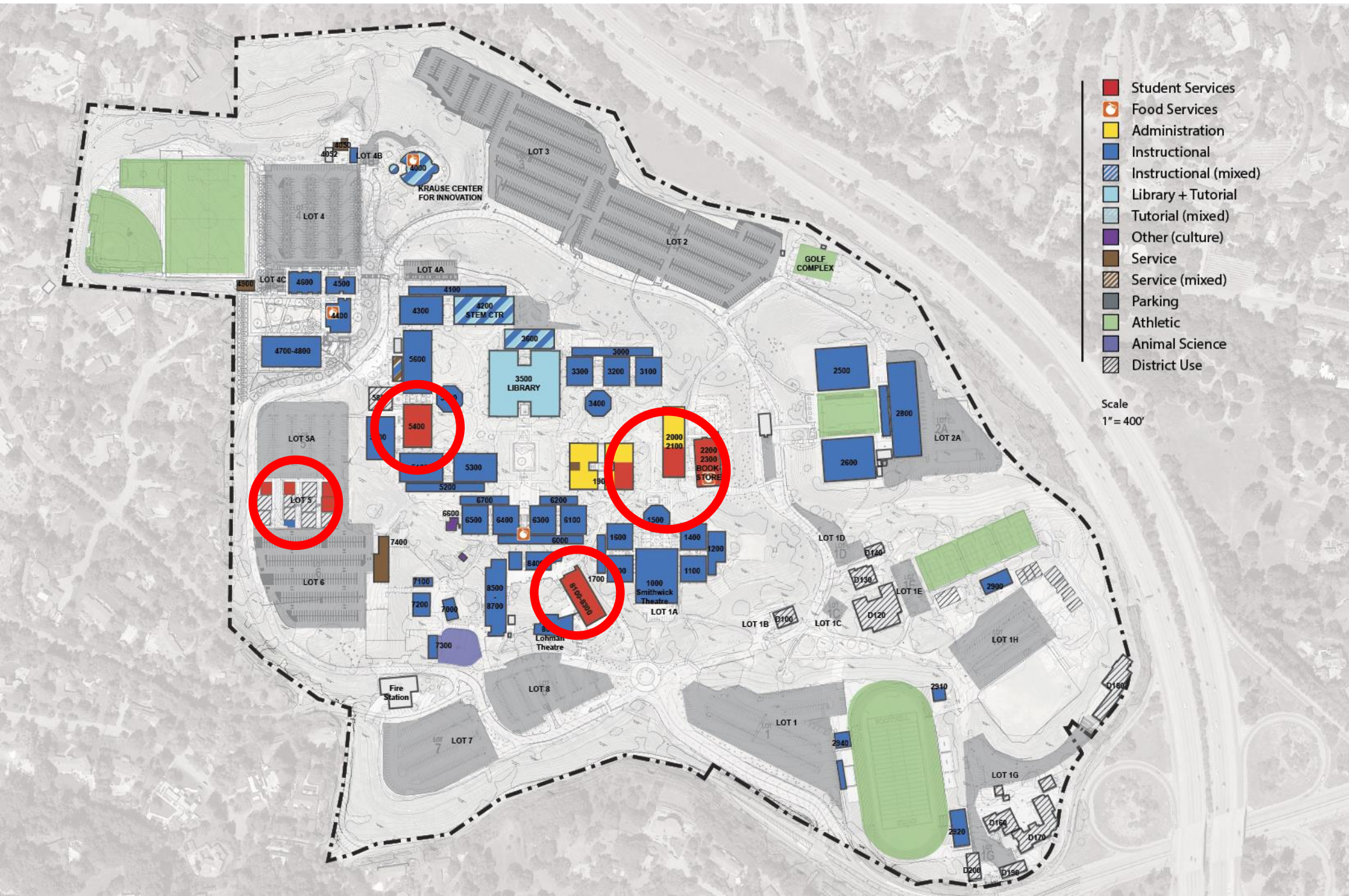
Campus Plan



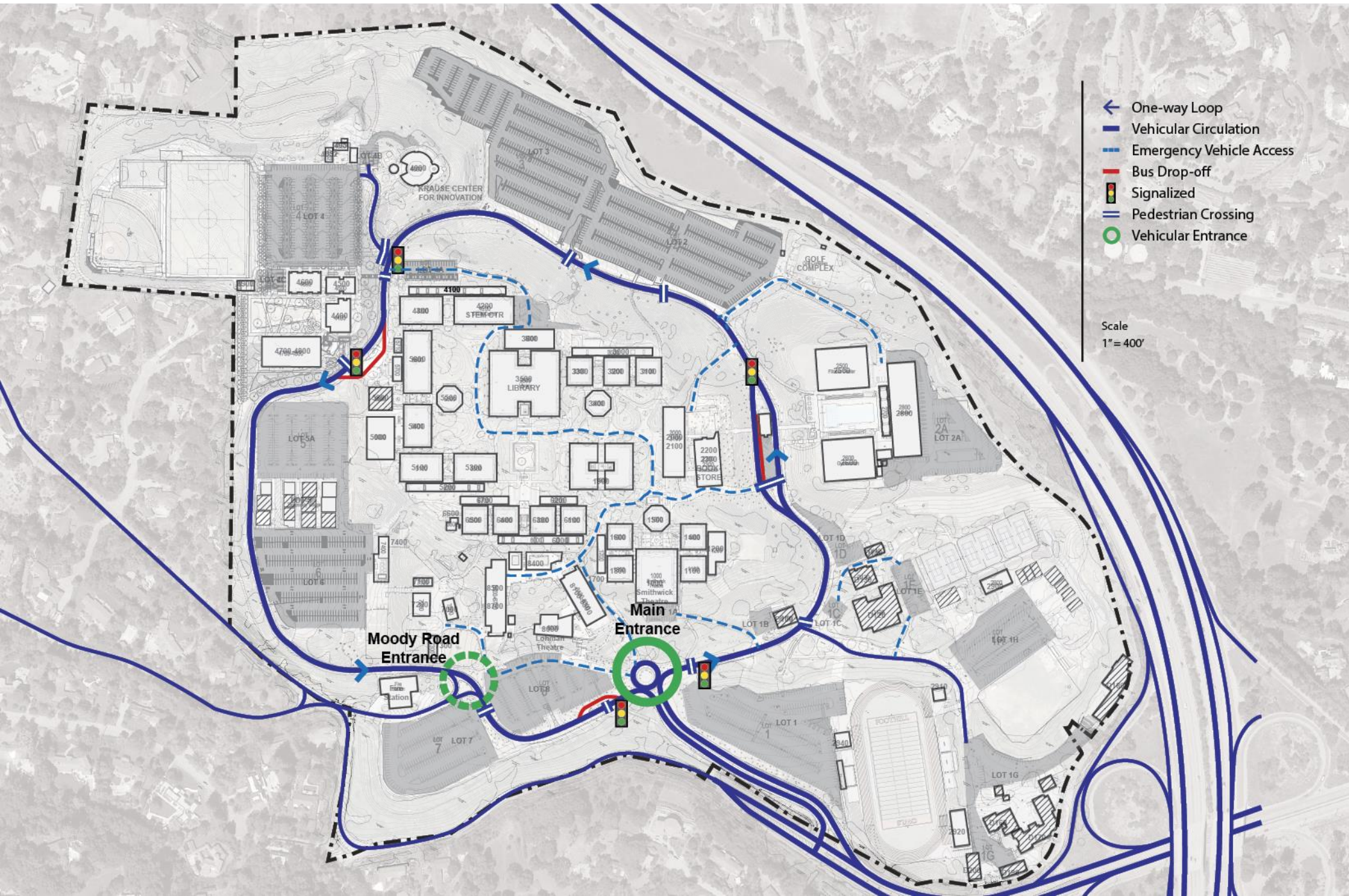
Campus Development History



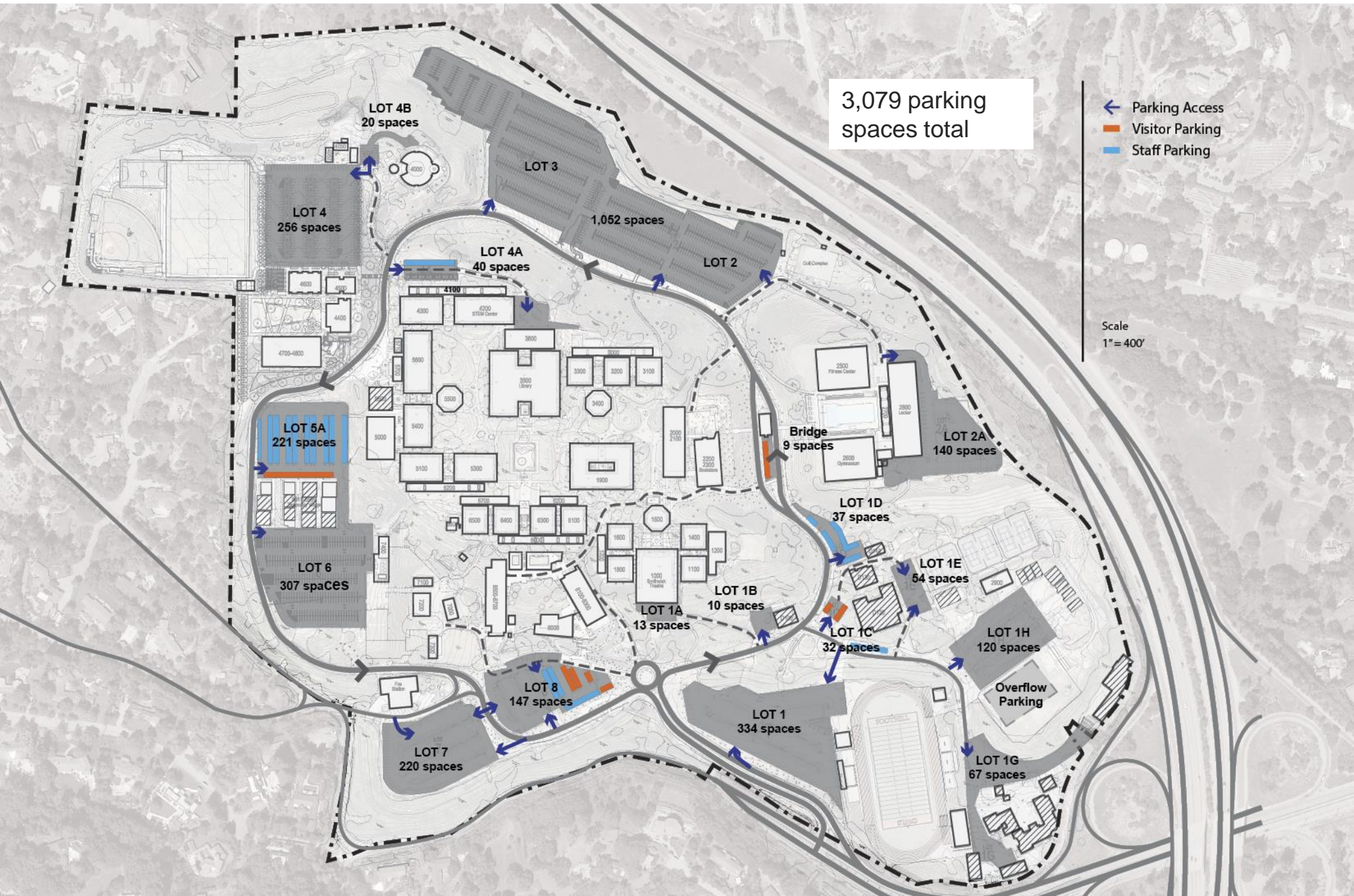
Campus Zoning



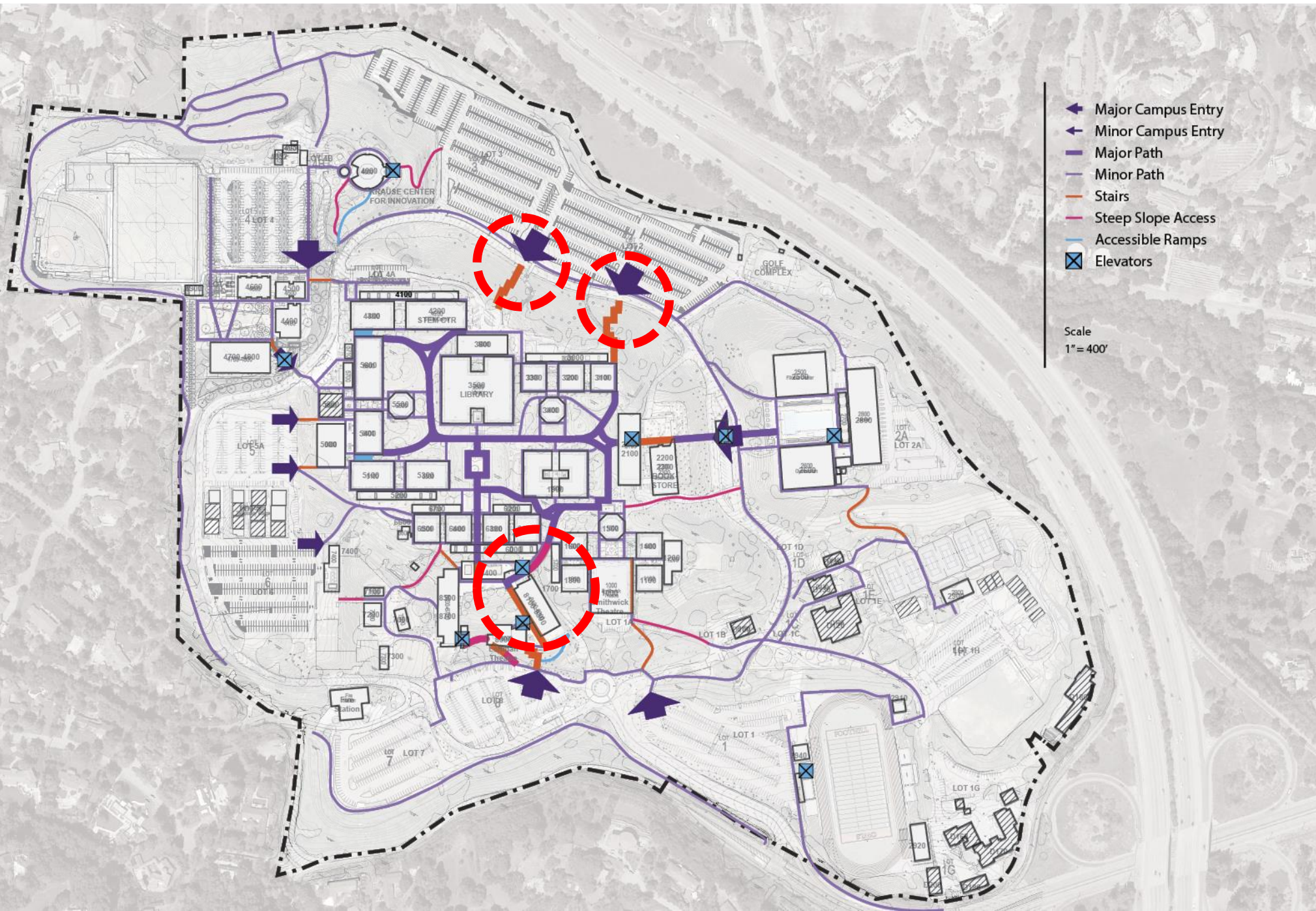
Campus Access



Vehicular Circulation + Parking



Pedestrian Access



Open Space



FOOTHILL CAMPUS RECOMMENDATIONS

Facilities Planning Principles

Promote **Student Success**

- Reduce barriers and facilitate equitable access to programs and support services
- Develop indoor and outdoor spaces to encourage collaboration and support student engagement
- Develop campus as a welcoming and nurturing environment

Improve **Campus Connectivity**

- Provide safe and universally accessible connections
- Enhance physical connections (pedestrian, bike, vehicular, transit) with the community and other campuses
- Utilize technology to enhance and create more dynamic learning environments, tools, and equity for students, faculty, and staff.

Improve **Efficiency of Facilities**

- Improve facilities to support program needs
- Replace temporary and inefficient facilities
- Improve functional zoning and operational efficiencies
- Develop flexible, multi-purpose facilities to adapt over time

Right-Size Facilities to Address Program Needs

- Align the projected inventory with state guidelines
- Position Foothill College to maximize state and local funding

Enhance **Community Engagement**

- Develop programming and improve facilities to enhance a sense of community
- Improve campus environment to welcome the community

Improve **Security and Safety**

- Develop and implement district-wide standards for security equipment and protocol
- Improve safety and security throughout campus, including lighting, pathways and parking areas

Support **Stewardship of Resources**

- Engage campus community in sustainability awareness
- Involve students in all aspects of sustainability
- Monitor / measure energy consumption
- Promote physical activity and other health-related programs
- Prioritize well-being, health and comfort in design of facilities

Draft Recommendations



Facilities Recommendations

Improve **Efficiency** of Facilities

Improve facilities to support program needs

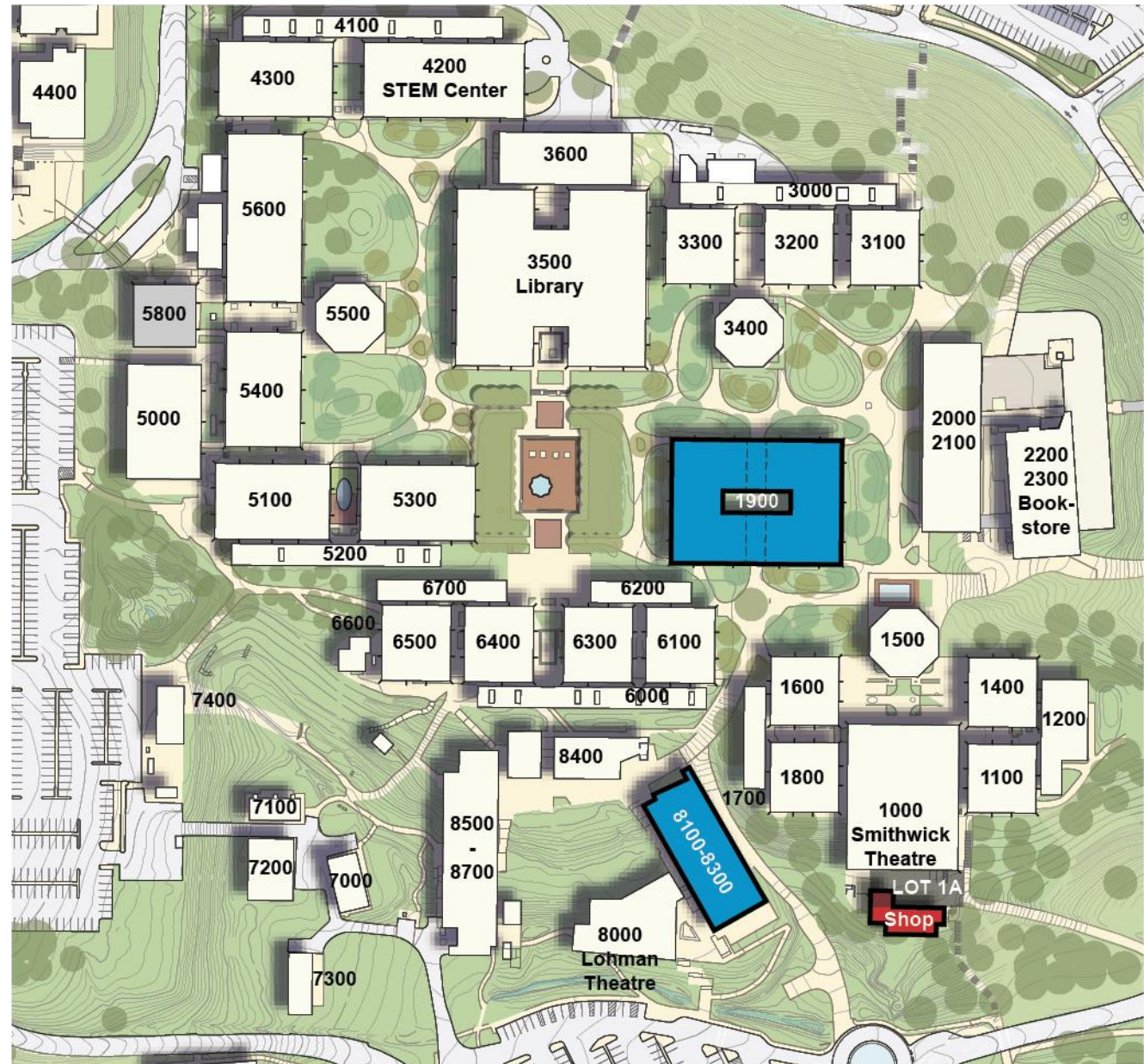
Promote **Student Success**

Reduce barriers and facilitate access to programs and support services

- Build expansion space to support Theater program needs
- Shift non-student focused spaces to lower campus
- Relocate core student support services to center of upper campus

Scale
1" = 200'

■ New Facilities
■ Repurposed Facilities

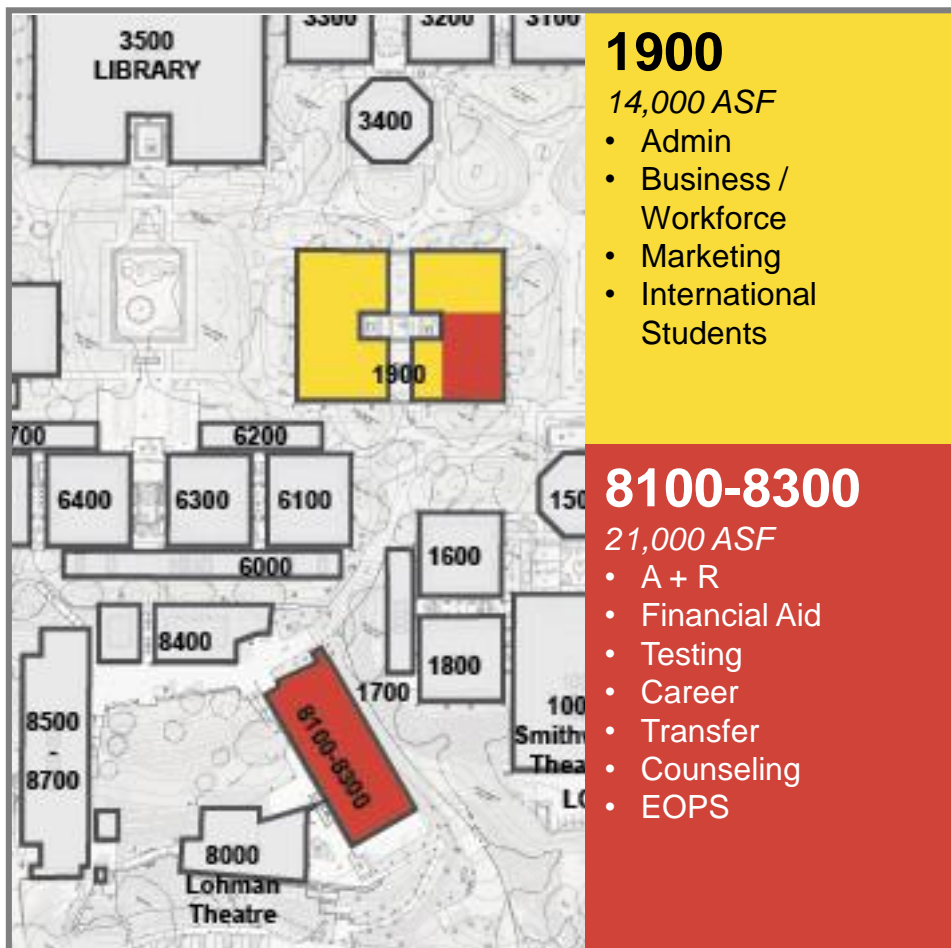


Facilities Recommendations

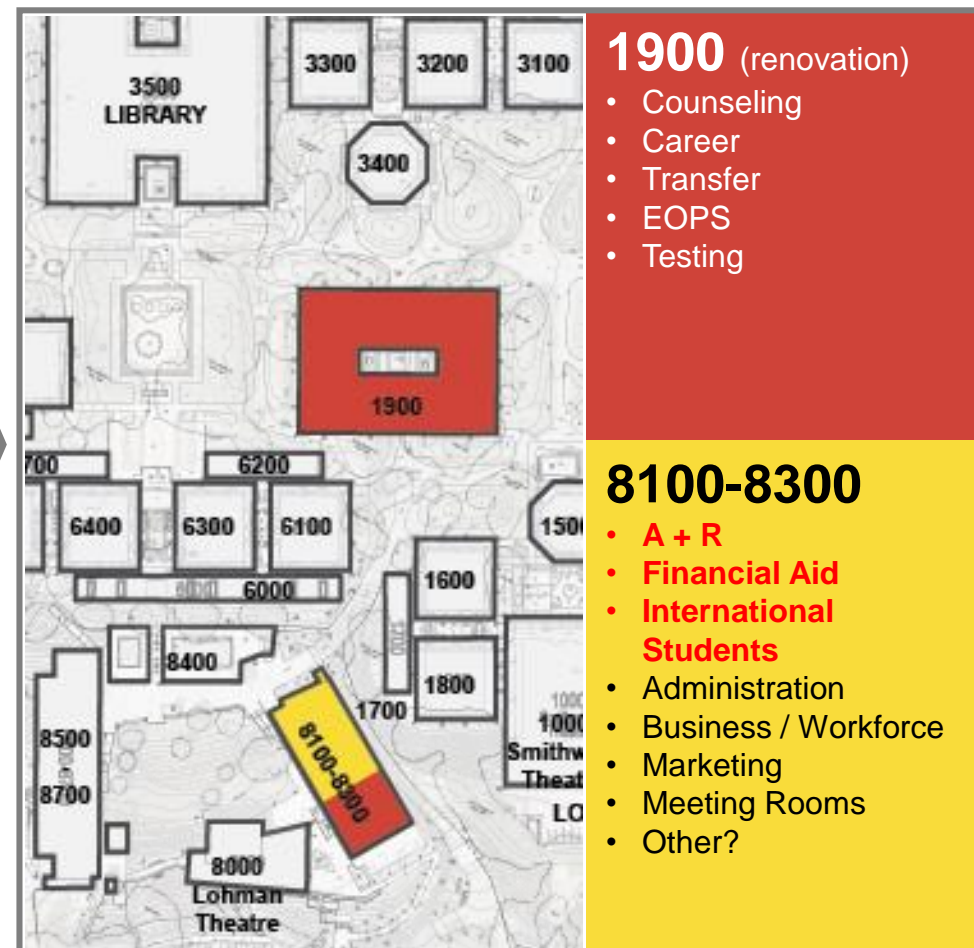
OPTION 1

- Shift administrative functions to lower campus
- Relocate select student support services to center of upper campus
- Integrate student support services with instructional support services
- Re-purpose building 8100-8300 to support first contact student services and administrative functions

EXISTING



PROPOSED

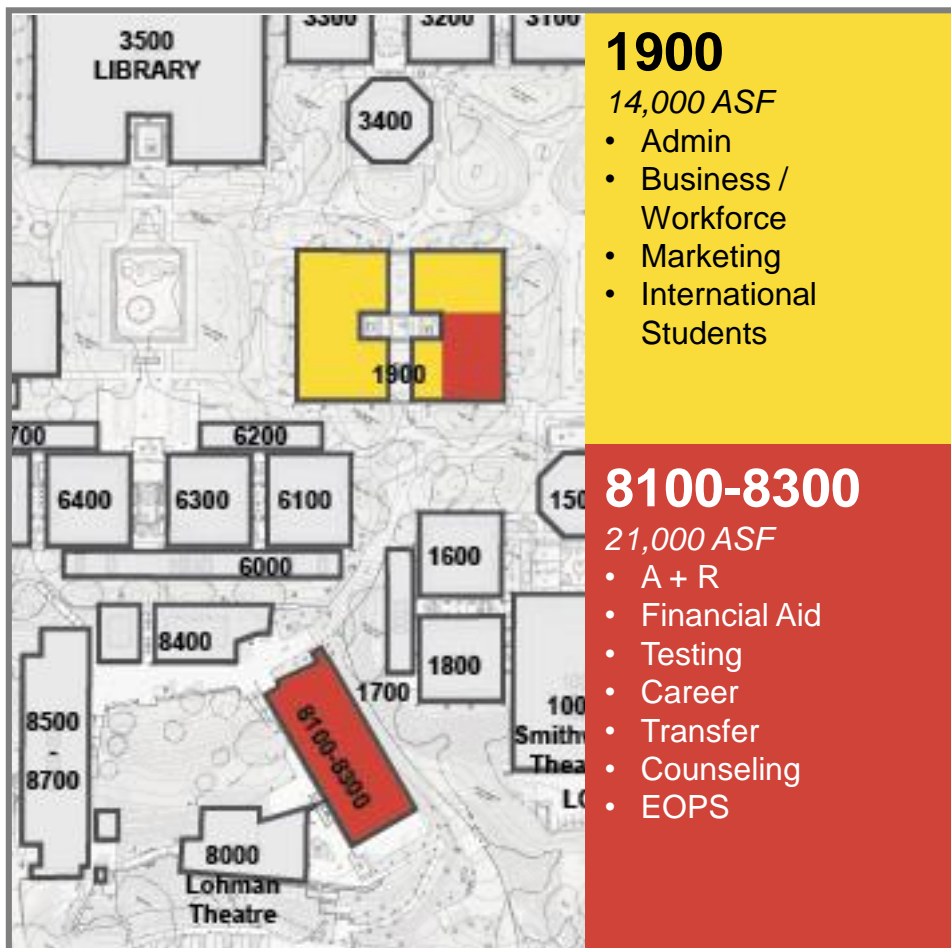


Facilities Recommendations

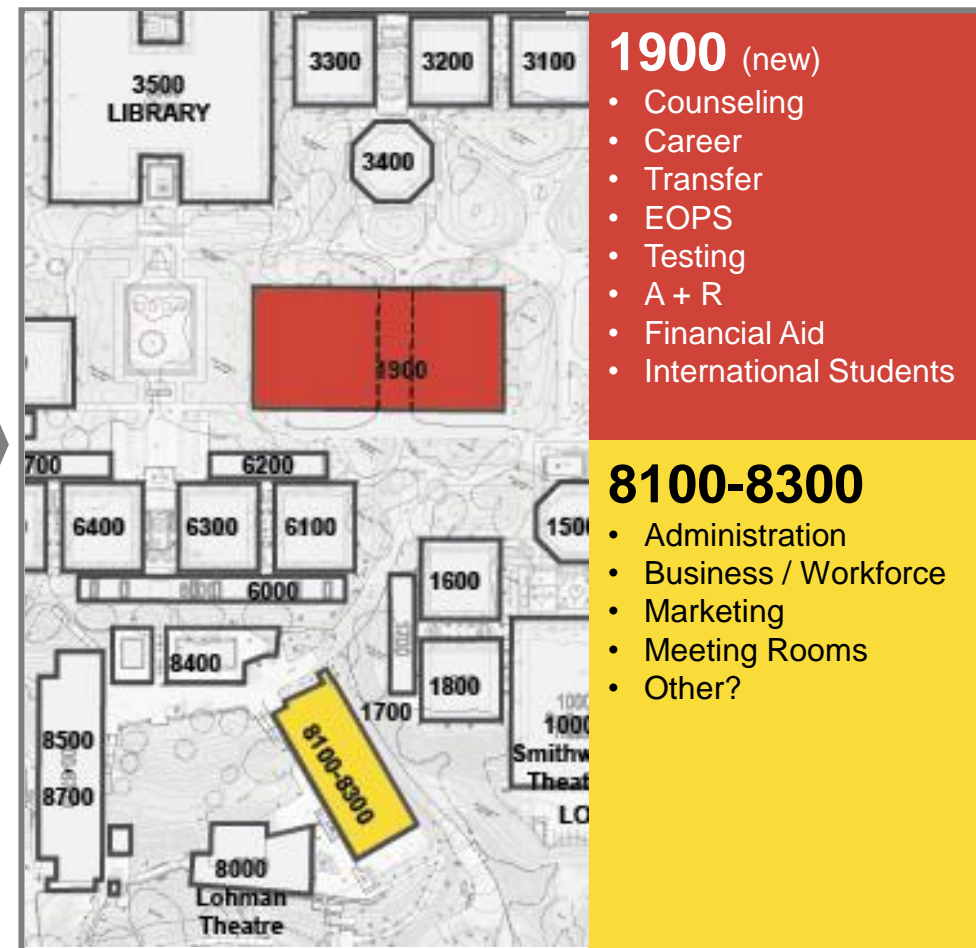
OPTION 2

- Shift administrative functions to lower campus
- Relocate all student support services to center of upper campus into a new building
- Integrate student support services with instructional support services at campus core
- Re-purpose building 8100-8300 to support administrative functions and additional meeting room space

EXISTING



PROPOSED



Site Recommendations

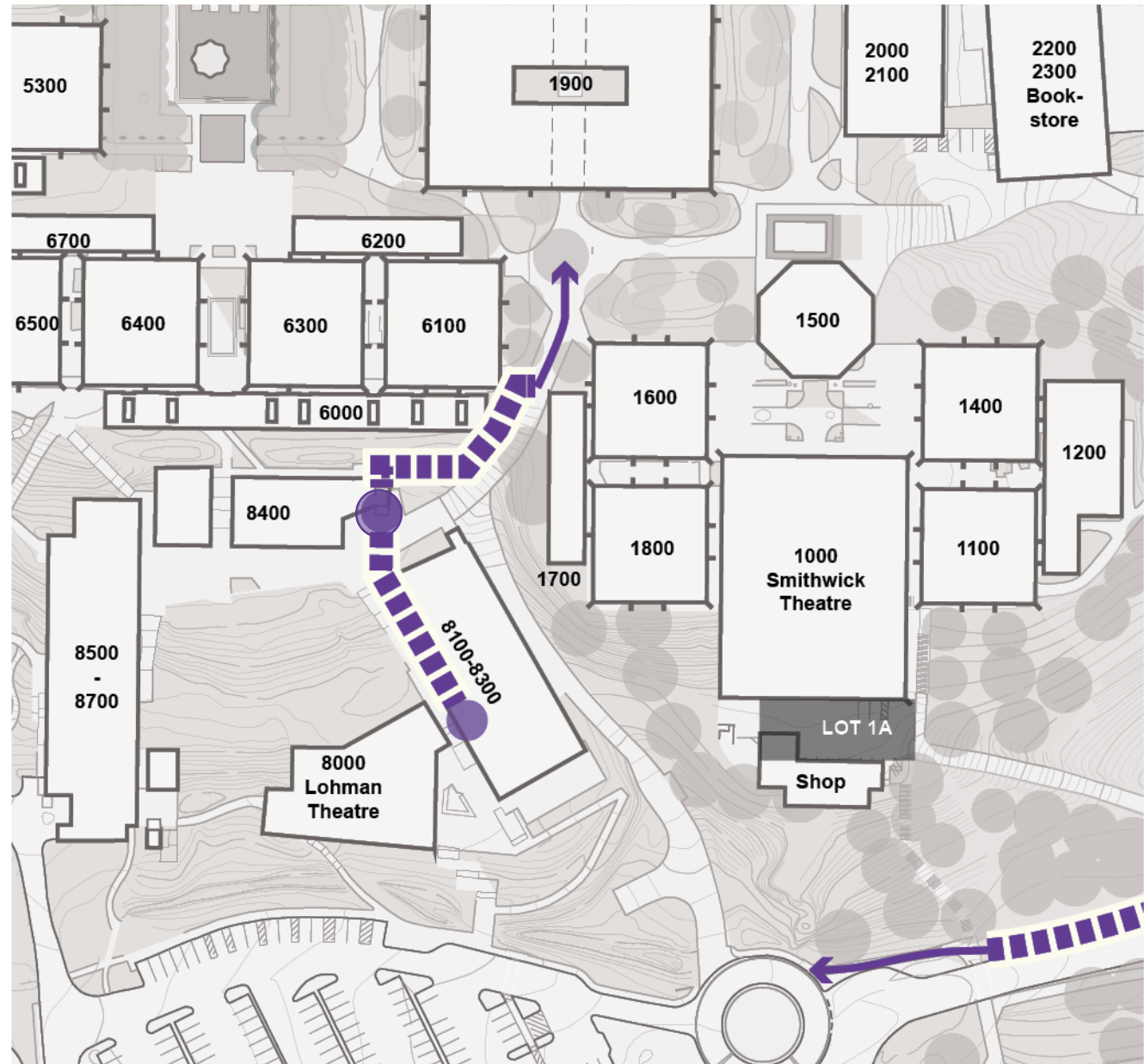
Improve Campus **Connectivity**

Provide Safe and Universally Accessible Connections

- Improve connection between upper and lower campus



- Improved Connection
- Reconfigured Parking

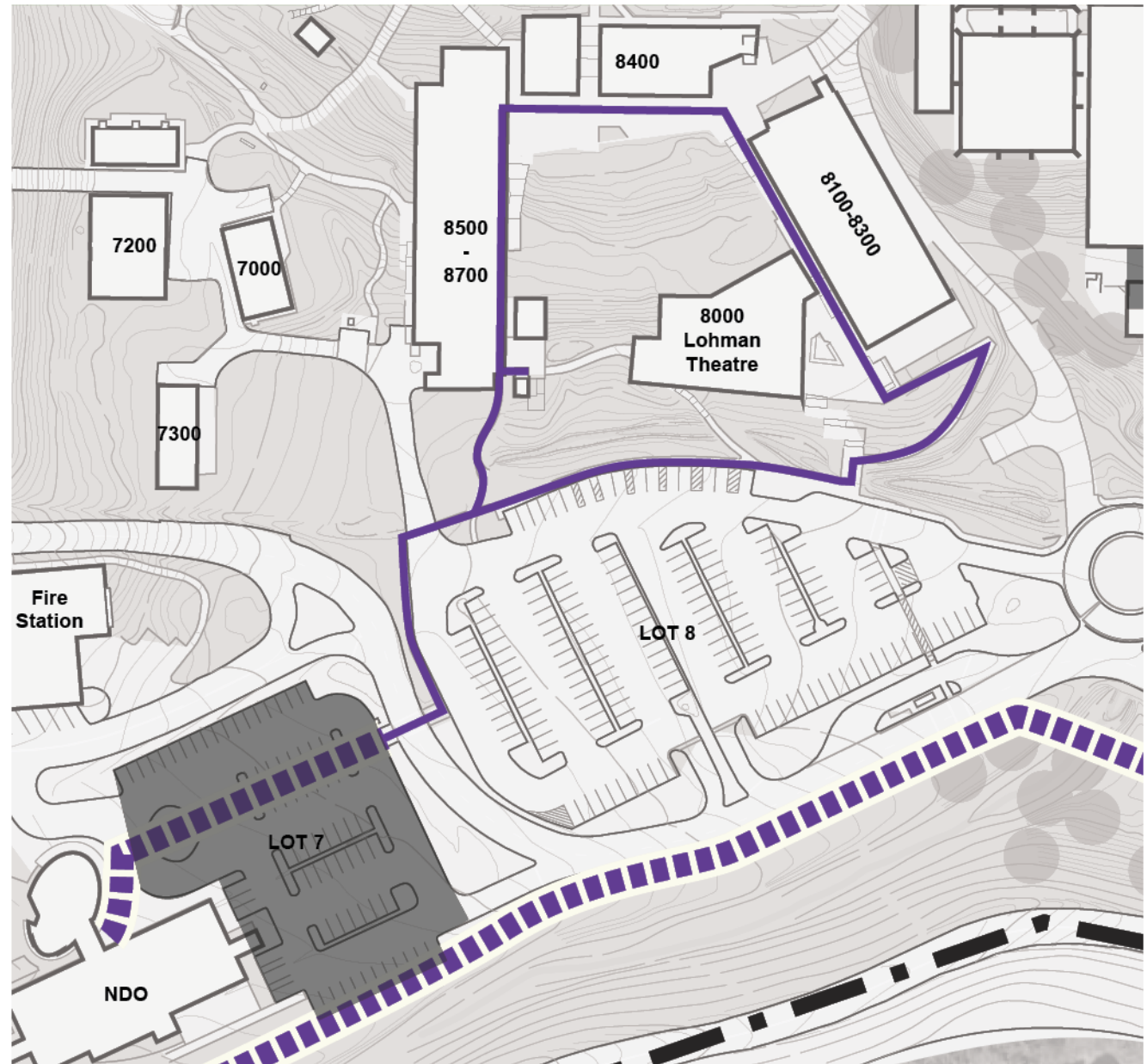


Site Recommendations

Improve Campus Connectivity

*Provide Safe and Universally
Accessible Connections*

- Develop accessible connection between campus core and New District Office building (scheduled to break ground – Fall 2016)



Scale
1" = 120'

■ Improved Connection
■ Reconfigured Parking

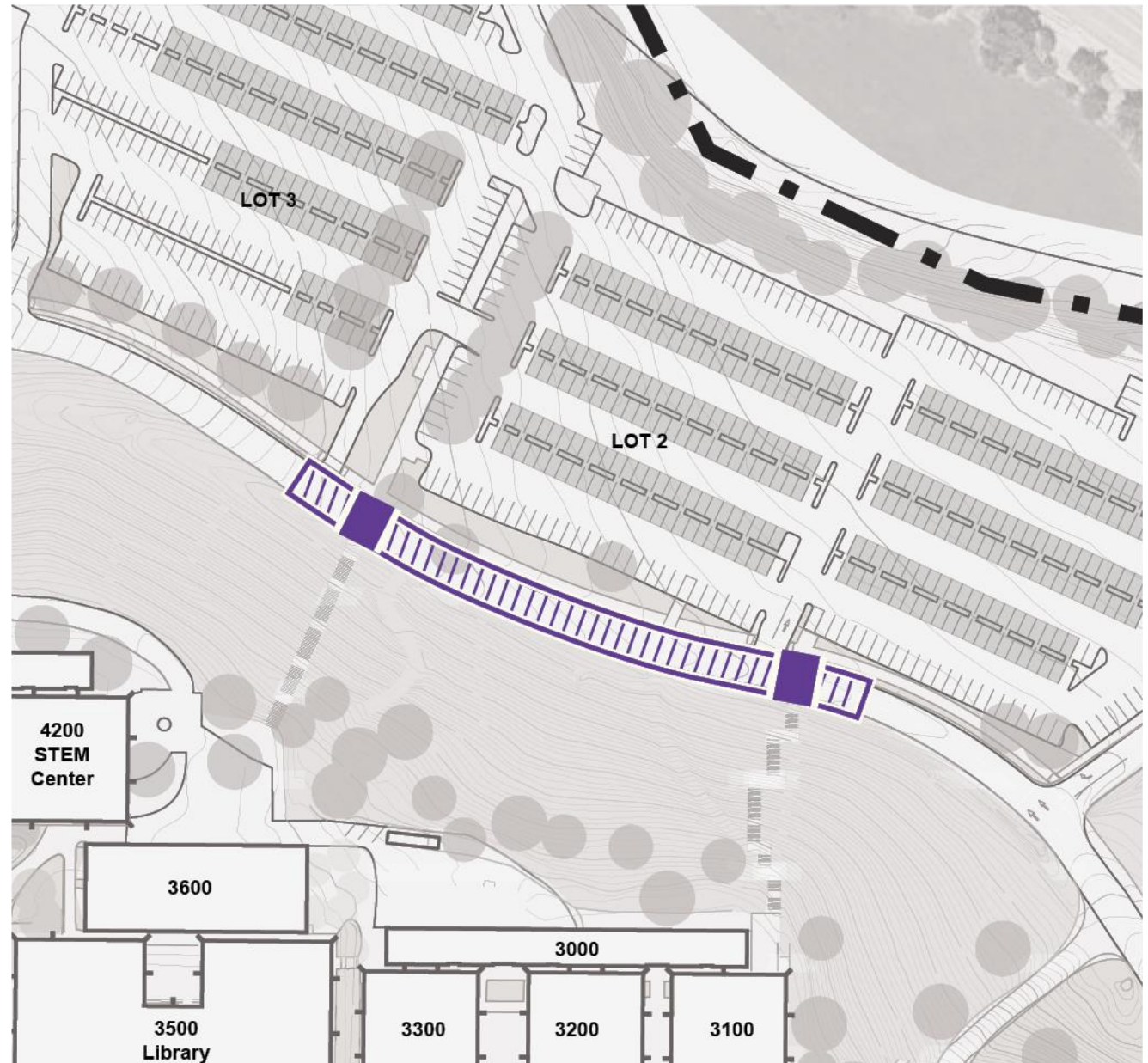
Site Recommendations

- Improve pedestrian crossings at Lots 2 and 3
 - Suggested recommendations include:
 - Textured paving or
 - Speed humps
- Further study needed



Scale
1" = 120'

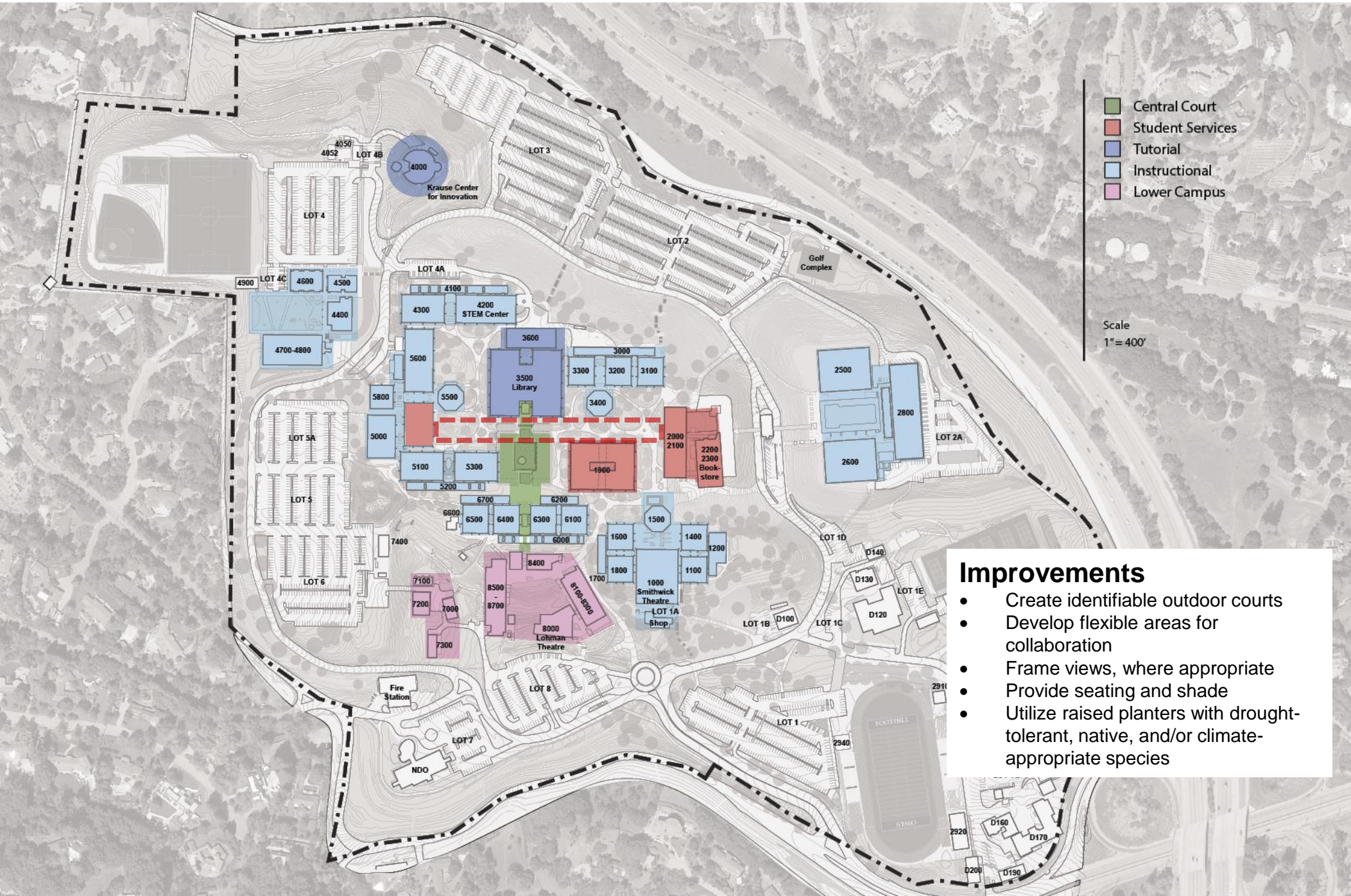
Improved Connection



Site Recommendations

Promote **Student Success**

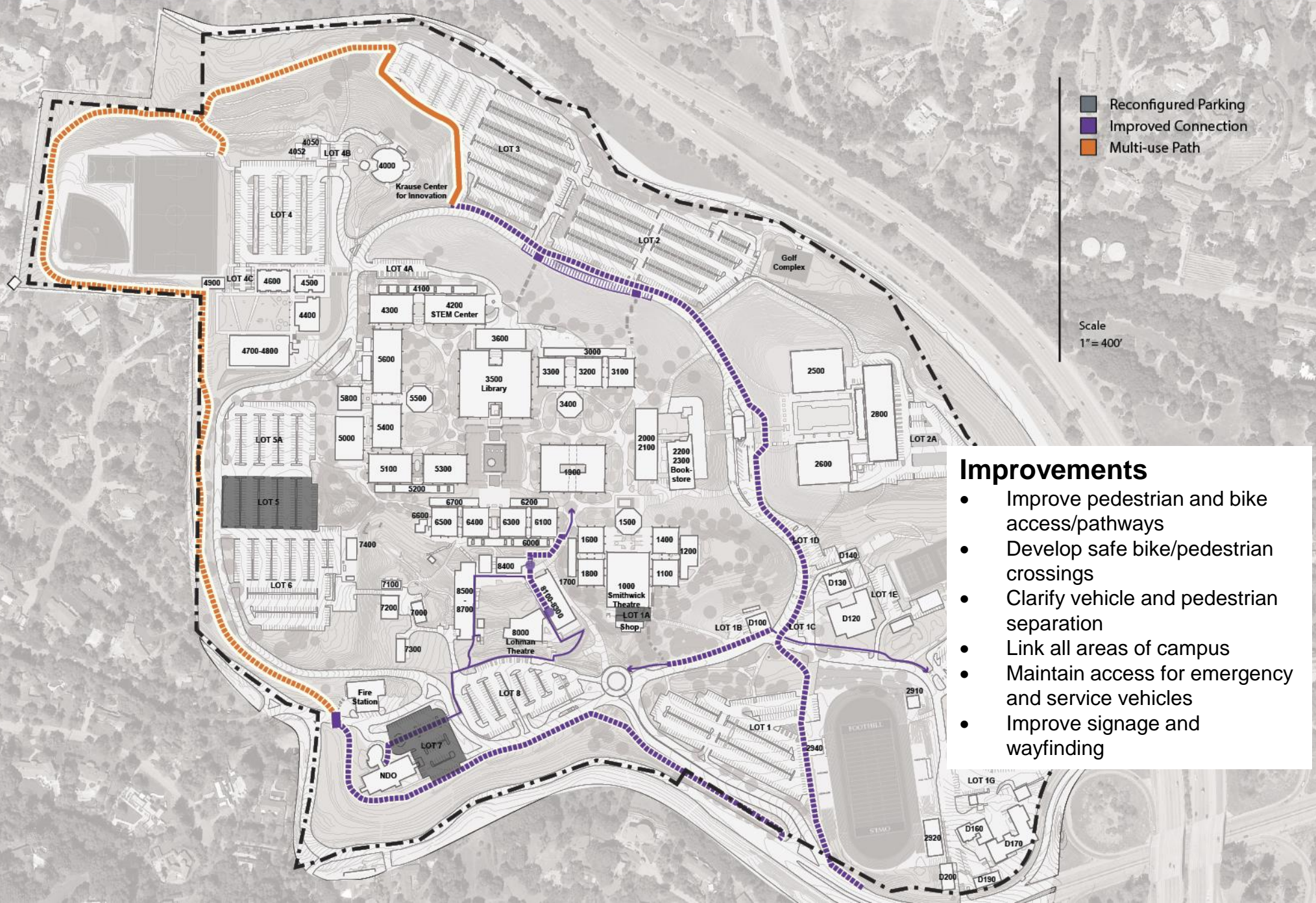
- Develop indoor and outdoor spaces to encourage collaboration and support student engagement



Site Recommendations

Improve Campus **Connectivity**

- Enhance physical connections (pedestrian, bike, vehicular, transit) with the community



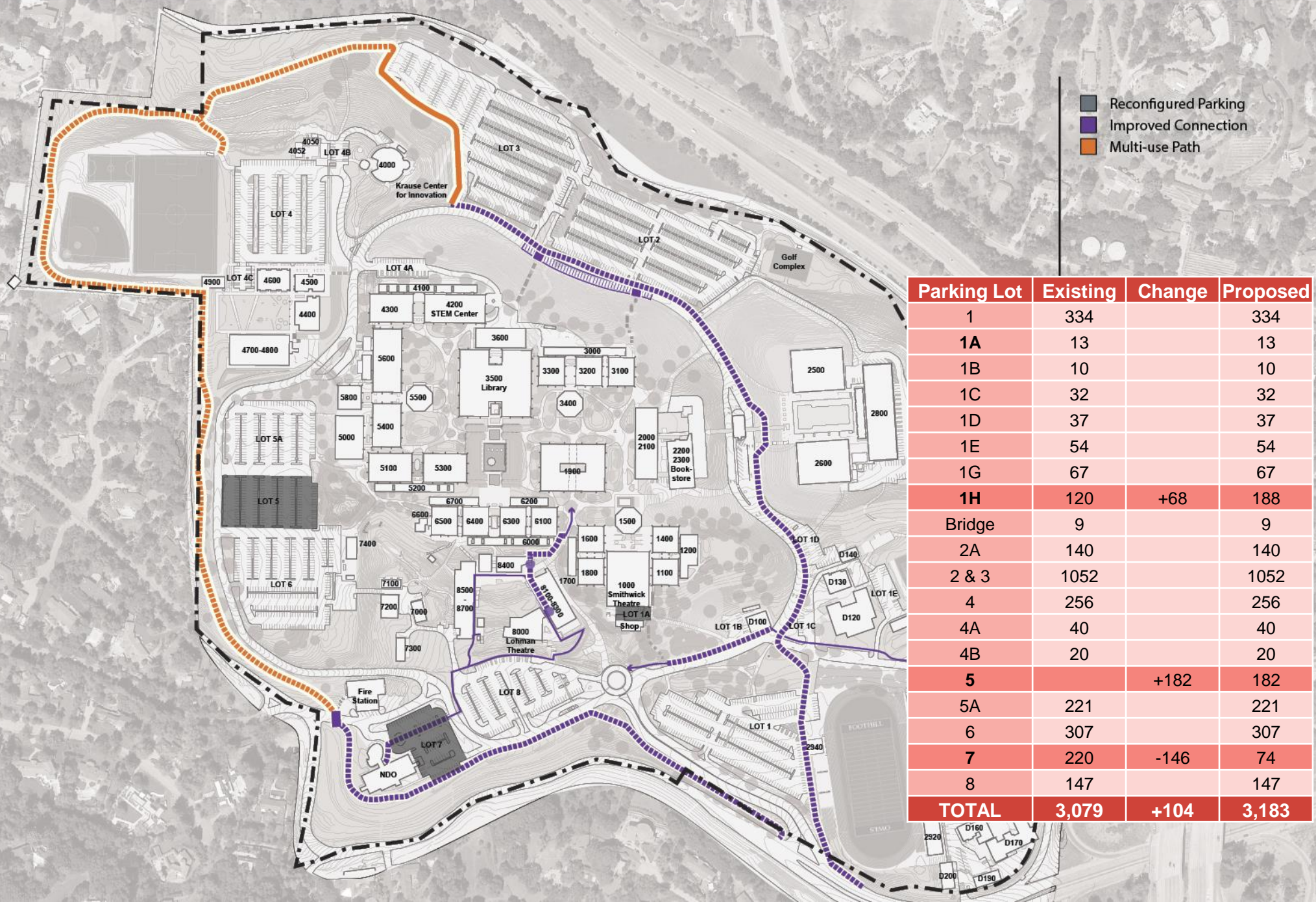
Improvements

- Improve pedestrian and bike access/pathways
- Develop safe bike/pedestrian crossings
- Clarify vehicle and pedestrian separation
- Link all areas of campus
- Maintain access for emergency and service vehicles
- Improve signage and wayfinding

Site Recommendations

Improve Campus **Connectivity**

- Enhance physical connections (pedestrian, bike, vehicular, transit)



Parking Lot	Existing	Change	Proposed
1	334		334
1A	13		13
1B	10		10
1C	32		32
1D	37		37
1E	54		54
1G	67		67
1H	120	+68	188
Bridge	9		9
2A	140		140
2 & 3	1052		1052
4	256		256
4A	40		40
4B	20		20
5		+182	182
5A	221		221
6	307		307
7	220	-146	74
8	147		147
TOTAL	3,079	+104	3,183

Facilities Master Plan

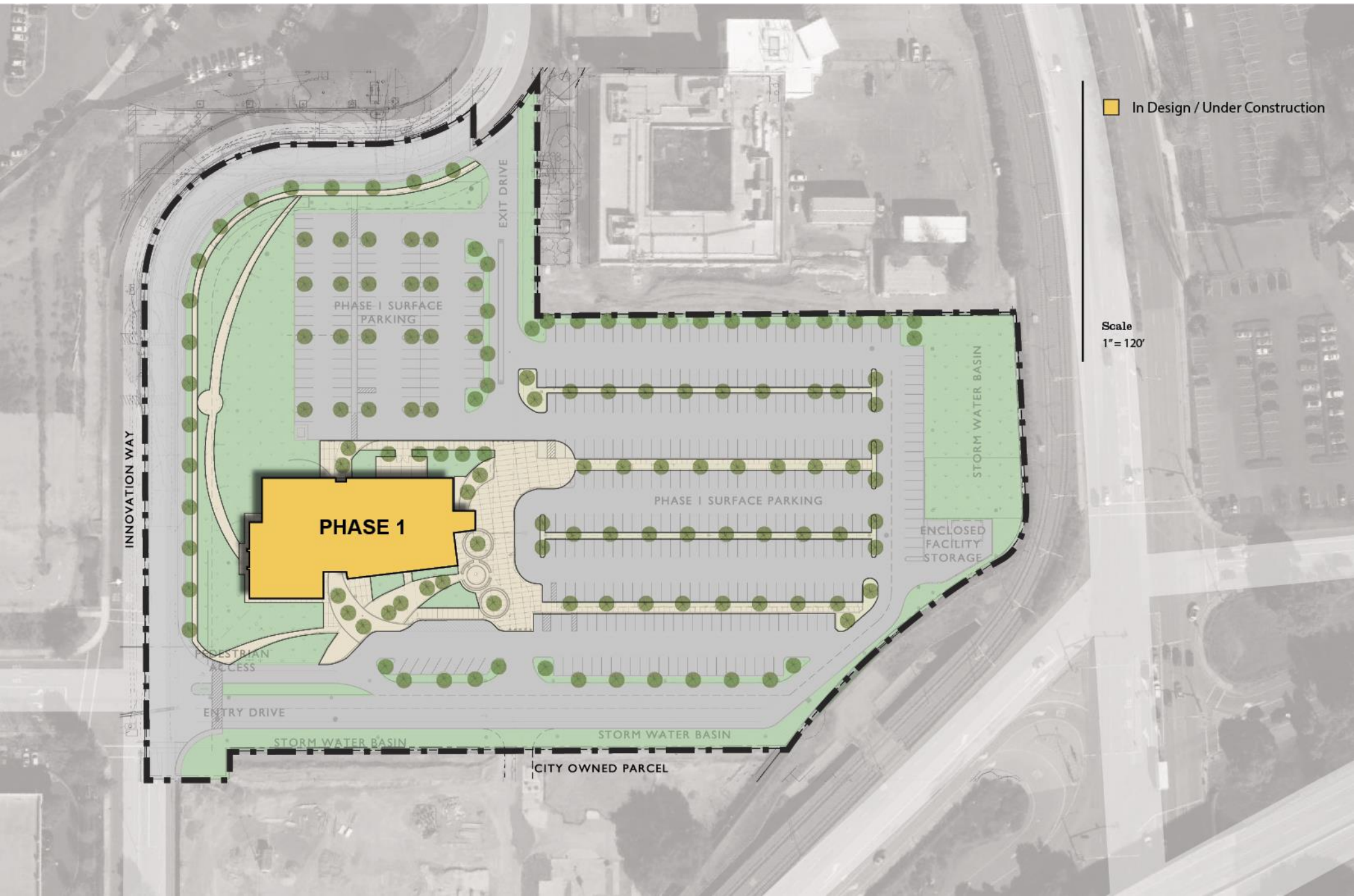


SUNNYVALE CENTER

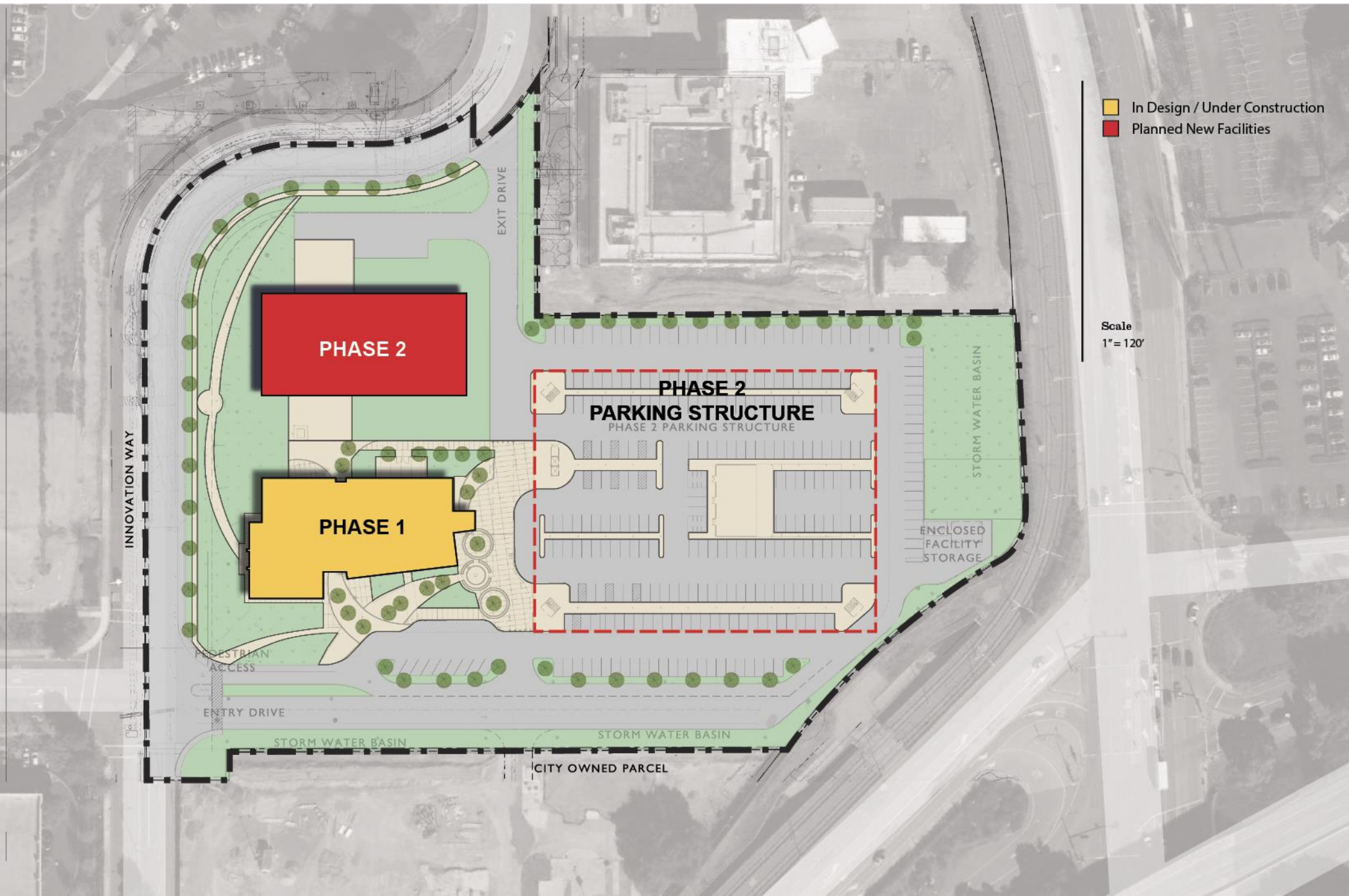
Sunnyvale Center Location



Foothill College Sunnyvale Center



Foothill College Sunnyvale Center Master Plan



APPENDIX

Next Steps

Documentation + Reviews

Presentations + Approvals

PARC – May

Board of Trustees – June 13

