

An architectural rendering of a modern building interior. The scene features a large, multi-level staircase with a dark, textured railing on the left. A wide, light-colored walkway leads towards a brightly lit entrance area in the background. The ceiling is high and features a grid of recessed lighting. The overall atmosphere is clean, modern, and well-lit.

2021 FHDA FACILITIES MASTER PLAN

Foothill College

Draft Plan

March 5, 2021

A photograph of a campus scene with a paved walkway, green grass, and several trees. In the background, a modern building with a large overhang is visible. People are walking on the path. The scene is brightly lit, suggesting a sunny day.

OUTLINE

PROJECT TIMELINE

PLANNING PROCESS

FACILITIES PLANNING PRINCIPLES

DRAFT RECOMMENDATIONS

PROJECT TIMELINE

		2020																				2021																						
		AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR				APR				MAY						
		3	10	17	24	7	14	21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	1	8	15	22	29	5	12	19	26	3	10	17	23	30
1	PREPARE	█																																										
2	ANALYZE					█				█																																		
3	FRAME									█				█																														
4	EXPLORE													█				█																										
5	RECOMMEND																					█				█				█														

		AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR				APR				MAY			
	Foothill College																																								
	Task Force Meetings (6)									9		30		20		11		22		17																					
	Site Visit						25																																		
	Campus Online Survey																																								
	Student Focus Groups (3)																																								
	Sustainability Workshop																							11																	
	Board Meeting																																			5					

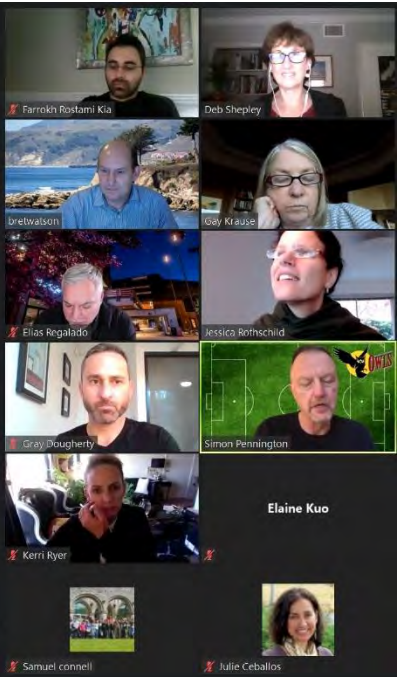
2021 FACILITIES MASTER PLAN



PARTICIPATORY

FMP TASK FORCE

- Bret Watson
- Elias Regalado
- Kurt Hueg
- Asha Jossis
- Christina Moore
- Elaine Kuo
- Jeff Bissell
- Kerri Ryer
- Sam Connell
- Priya Vasu
- Abhi Muhar
- Adam Loo
- Carmen Ponce
- Julie Ceballos
- Simon Pennington
- Veronica Casas
- Alexis Donato
- Jessica Alarcon
- Cara Miyasaki
- Gay Krause
- Bob Cormia
- Teresa Ong
- Valerie Fong
- Al Guzman
- April Henderson
- Lisa Hills



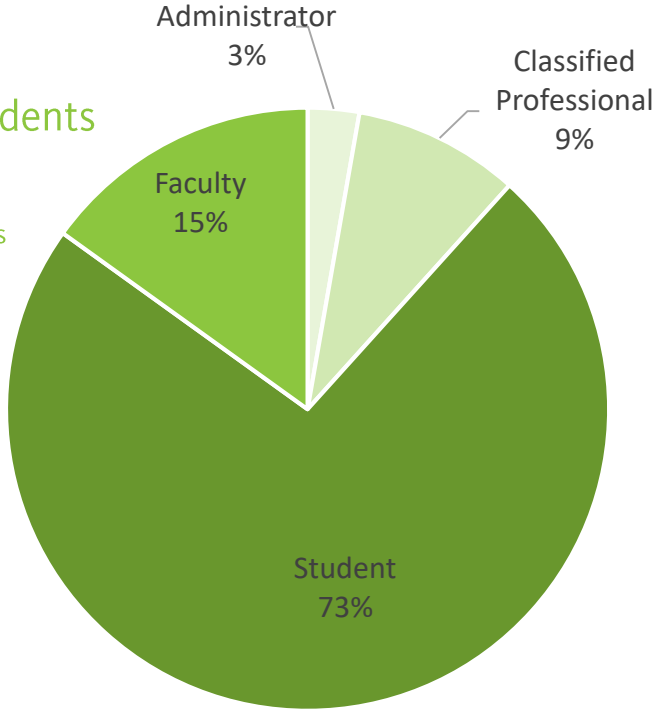


CAMPUS ONLINE SURVEY

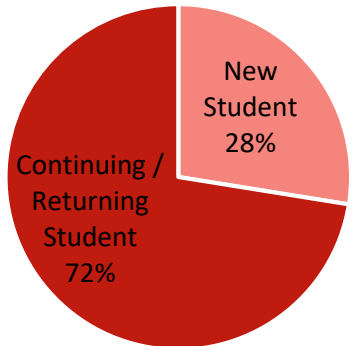
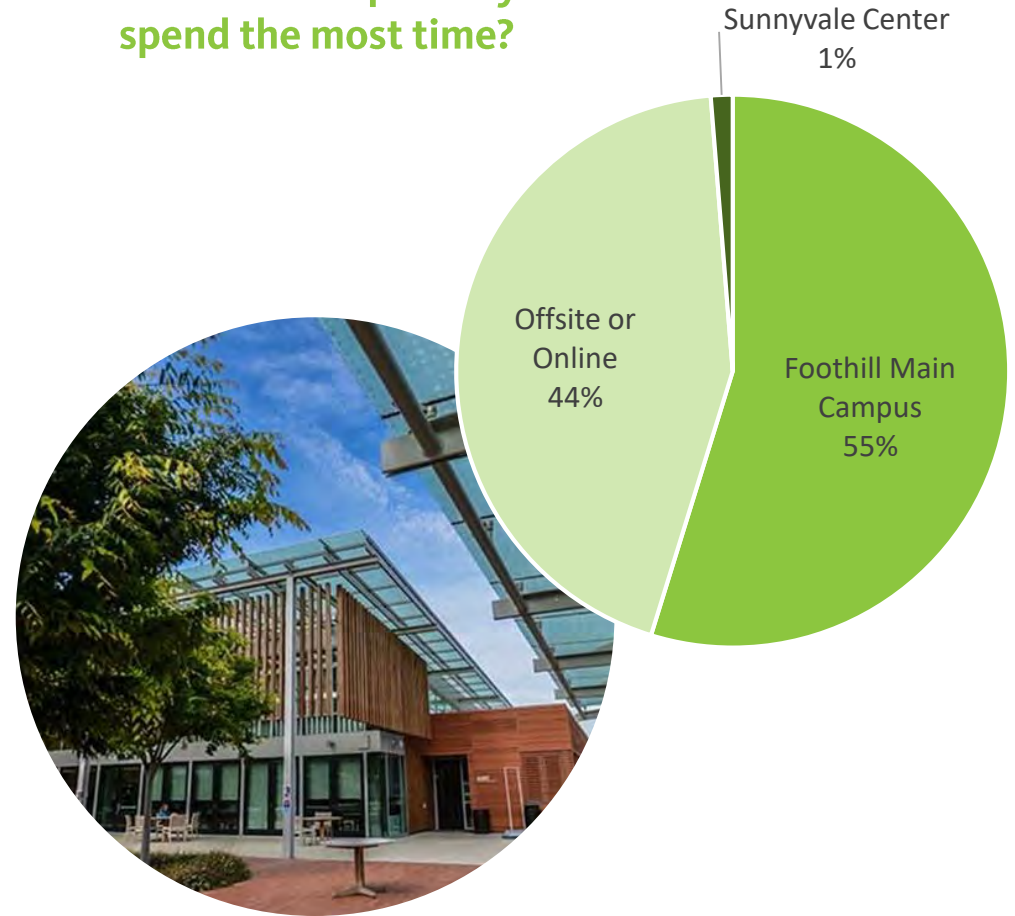
Total Respondents

471

respondents



At which campus do you spend the most time?



Total Respondents

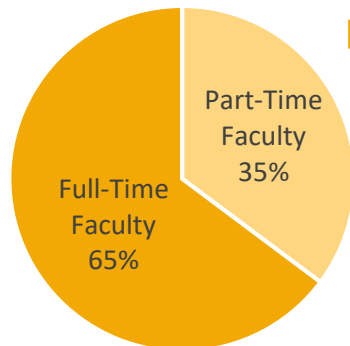
345

respondents

Employee Status

126

respondents



STUDENT FOCUS GROUPS

What are some of your favorite places on campus to study? And WHY?

What are some of your favorite places on campus to socialize? And WHY?

Library

STEM Center

Outside

Cafeteria

Campus Center / Quad

Food Areas (Cafeteria / KJs)

Departmental Classroom

Outdoor Areas



STUDENT FOCUS GROUPS

What types of spaces would you like to see developed on campus to support your success?

Gender Neutral Restrooms

Easier Parking Access for Mobility Impaired

More Quiet Study Options
(Library is too small and too quiet)

Dental Hygiene / Dental Assisting Program
(Patient Access + Additional Clinic Space)

More Virtual Learning Capabilities
(WiFi, Printing, Tech)

More Outdoor Study Options
(Expand Quad seating and shade)



SUSTAINABILITY WORKSHOP

Foothill College
FMP 2020 Sustainability Workshop

HOW TO ENGAGE

How to Comment
Type in your favorite flower in the comments section below.

How to Add a Post
Click the + at the bottom of the column to add a post.

How to Vote
Click the little heart below. Note: for this event please try to limit your votes to 8 per focus area.

REFERENCES

Foothill College Energy Use Trend 2001-2020
40% increase in total energy use for 2018-19 compared to 2001-2 baseline.

Foothill College EUI (kbtu/sf/yr) Trend
4% DECREASE in Energy Use Intensity (EUI) for 2018-19 compared to 2001-2 baseline.

Foothill College CUI (lbs CO2e/sf/yr) Trend
44% DECREASE in carbon use intensity (CUI) for 2018-19 compared to 2001-2 baseline.

G2Z: DISTRICT ENERGY SYSTEMS

Add solar panels to Lots 5 and 6

Buy Clean Electricity
Purchase Carbon Free electricity from PG&E. Currently PG&E's electricity carries a carbon burden of 0.044 mtone CO2e/MWh, which is quite low (In 2013 it was more than double that at 0.202 mtone CO2e/MWh). Cleaned carbon free electricity is now available at very competitive rates.

\$1 million spent on clean energy in the United States generates more than twice as many jobs as \$1 million spent on fossil fuels in the short- to medium-term.

Upgrade CoGen facilities
Should Natural Gas powered CoGen facilities be phased out?

Auto shutoff switches in all rooms (motion detectors types).

G2Z: BUILDING OPERATIONS

Solar thermal hot water for the pools?

Broader Operating Temperatures
Expanding room temperature to a five degree swing (eg 67-72) and adjusting for seasonal variation can reduce energy use by as much as 10%.

Commissioning and Retrocommissioning

Upgrade Demand Response
Lower conditioning requirements when room/facility not in use.

PSEC
Lots of PV potential.

Add pool covers
Pool needs to be upgraded to ADA. Rick Andrews has seen 3 pool cover failure problems... Logistics, manpower issues... Need a fully automatic system to work.

open doors in classrooms is an issue - happens to address heating and cooling issues

G2Z: NEW BUILDINGS

Design to Net Zero Carbon Operations

Go All Electric

Set embodied carbon targets for new building projects and major retrofits.
More information available from <https://carbonwise.org/forum.php>

Global CO2 Emissions by Sector

Sector	Percentage
Industry	27%
Transportation	13%
Buildings	29%
Electricity and Heat	31%

Target LEED Gold + certification

Consider LEED EBOM certification for recertification of already certified LEED buildings

G2Z: TRANSPORTATION

Expand EV charging
also include for bikes, scooters...

Electrify the College Fleet

Dedicated bike lanes

Get EV charging on local storage, get them off the grid.

Ride Share Improvements
Add better management of ride share pickup and drop off for PH.

G2Z: SEQUESTRATION

Climate Positive Landscape
Smart landscape design can deliver significant carbon sequestration opportunities.

More biodiversity

WB: AIR QUALITY

Set air quality targets and survey spaces for performance against targets
% Fresh/outside air
ACH (Air Changes per hour)
PM2.5
CO2

Pursue 3rd party Well Being Certification
Fitwell

Need for education re improved air quality

WB: INCLUSIVE DESIGN

Embrace Inclusive Design Principles
Body Fit, Comfort, Awareness, Understanding, Wellness, Social Integration, Personalization, Appropriateness

Pursue 3rd party Well Being Certification
Fitwell

Need for education re improved air quality

WB: OUTDOOR LEARNING

Infrastructure Needs
Lighting, Power, ...

WB: FOOD & WATER

Healthy Food Options

Hydration Stations

WB: DIVERSITY & EQUITY

Set D&E targets for procurement?

Spaces for different student groups

Gender neutral restrooms

Food pantry w donating options

Spaces for community gathering of diverse groups

Foothill College
FMP 2020 Sustainability Workshop

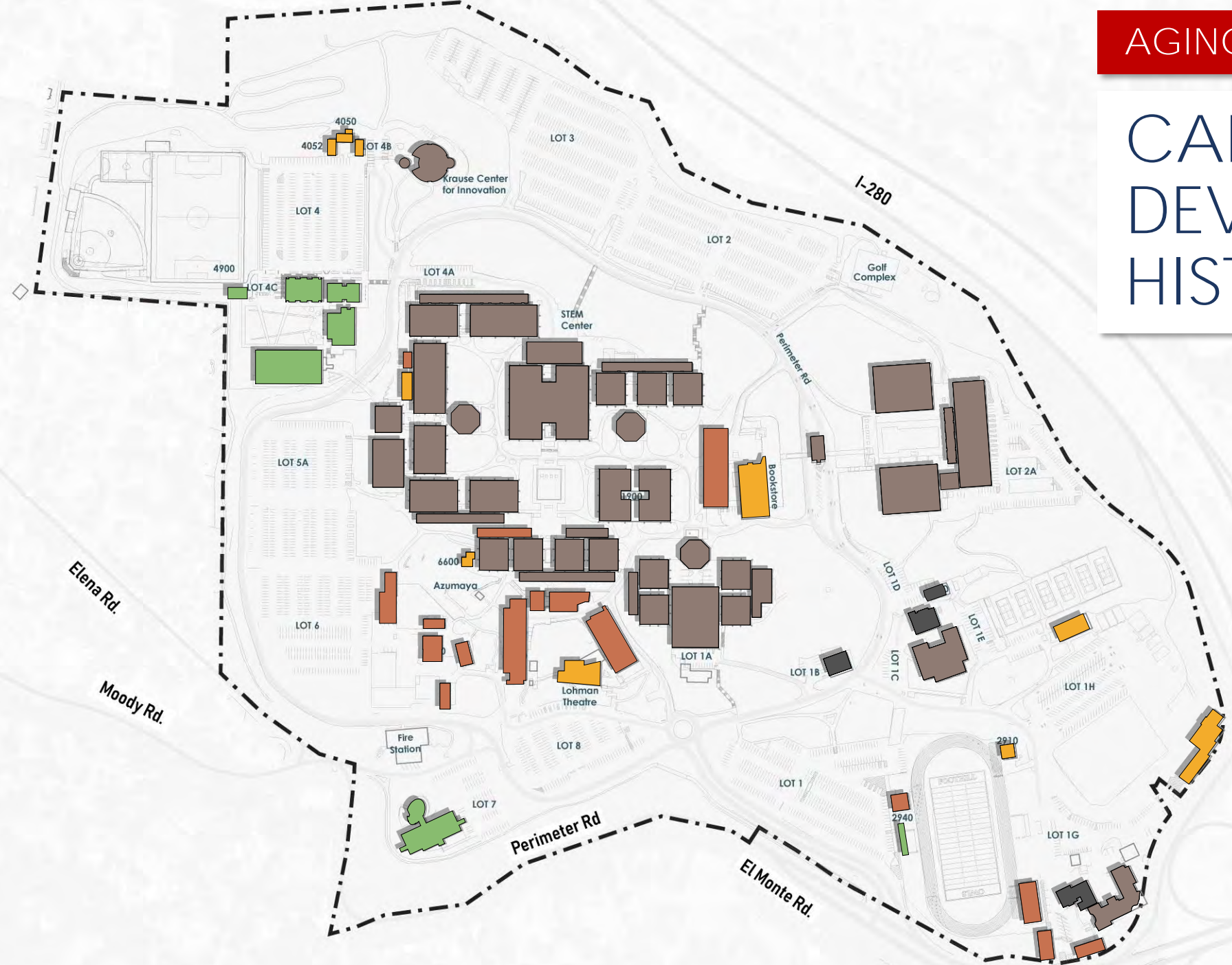
Posts	50
Comments	88
Reactions	152
Contributors	27



DATA-INFORMED

AGING FACILITIES

CAMPUS DEVELOPMENT HISTORY

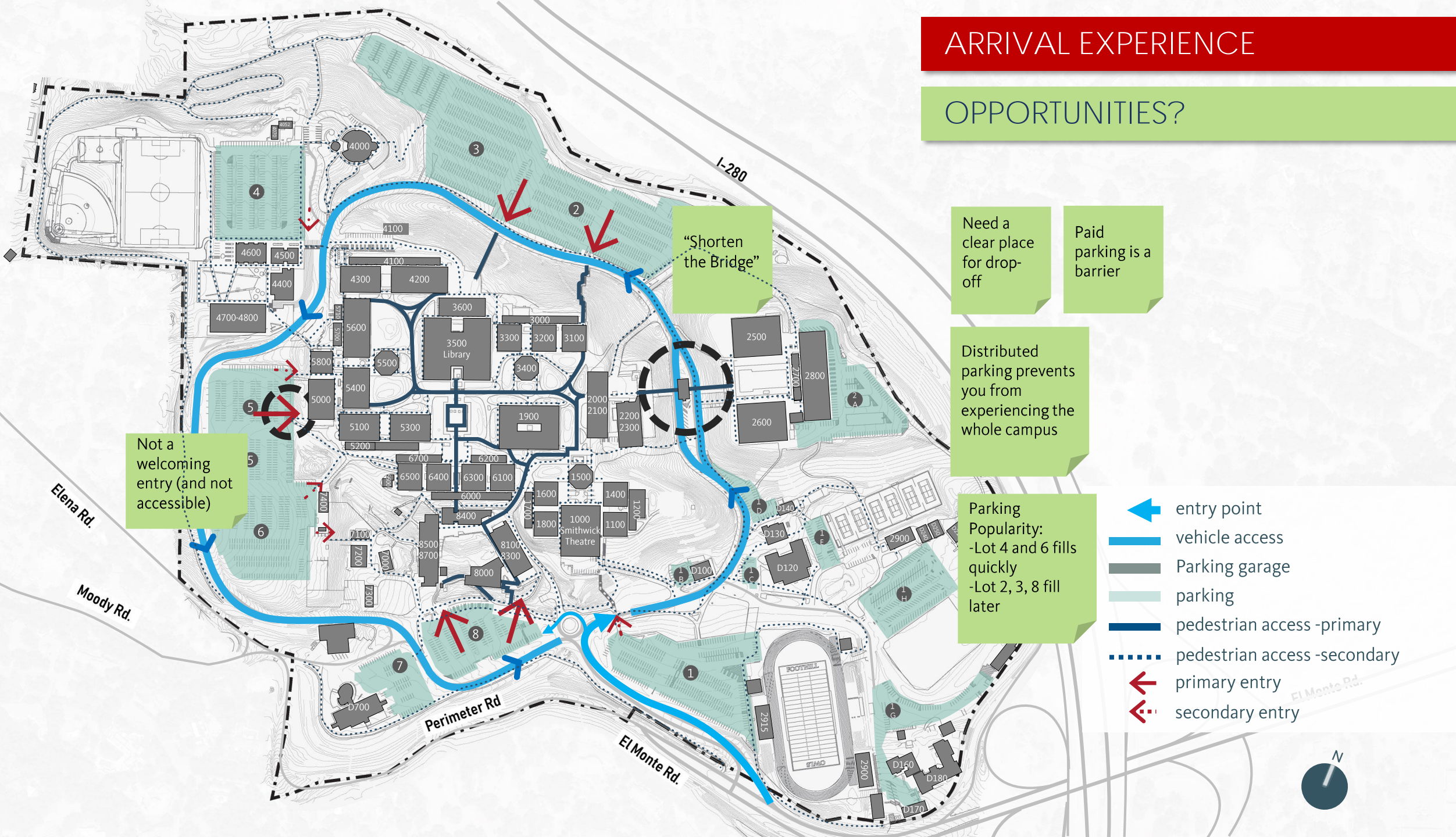


- 1900s – 1950s
- 1960s
- 1970s – 1990s
- 2000s
- 2010s



ARRIVAL EXPERIENCE

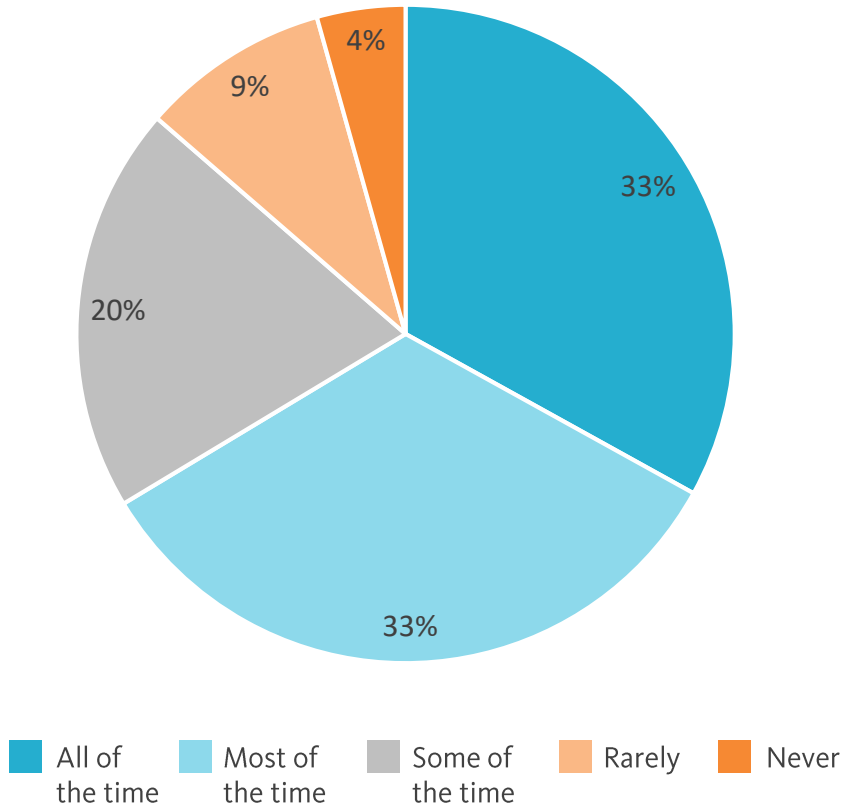
OPPORTUNITIES?





STUDENTS: Sense Of Belonging

I feel a sense of belonging at Foothill College.

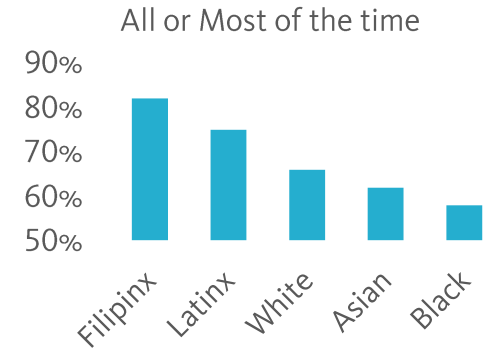


By Division

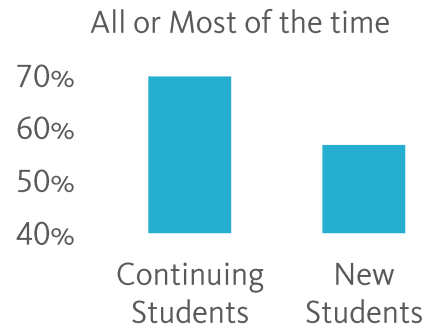
Most sense of belonging:
 Fine Arts & Communication
 Biological & Health Sciences
 (excluding Allied Health Programs)

Least sense of belonging:
 Kinesiology & Athletics

By Race / Ethnicity



By Student Role



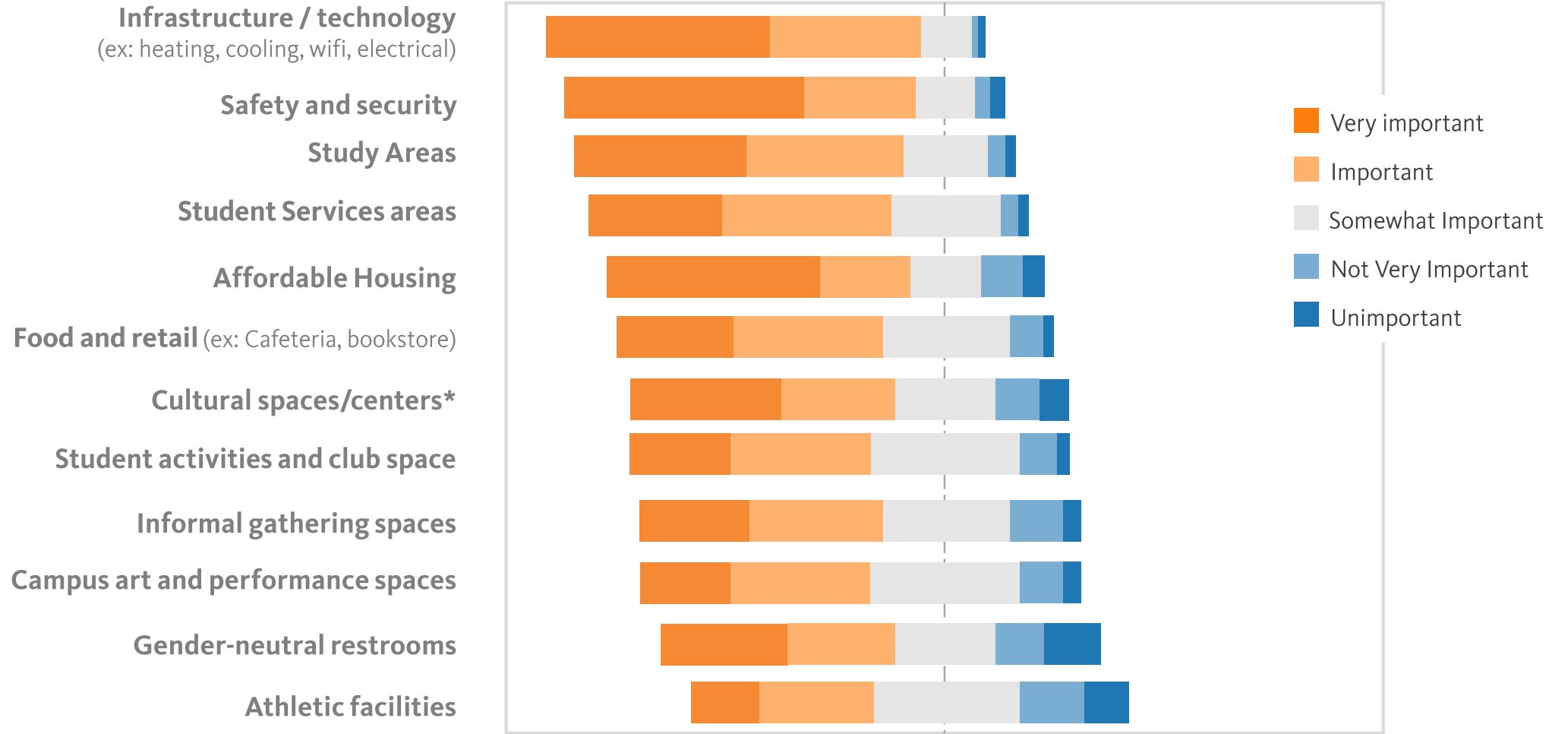
By Sexual Orientation

LGBTQ students are 13% less likely to feel a sense of belonging, compared to students who are not part of this community.



FOOTHILL COLLEGE FOCUS AREAS

Foothill College is developing a Facilities Master Plan for the next five years – this planning document will describe the college's current and future needs, to best suit students and faculty. In your opinion, what should Foothill College focus on?



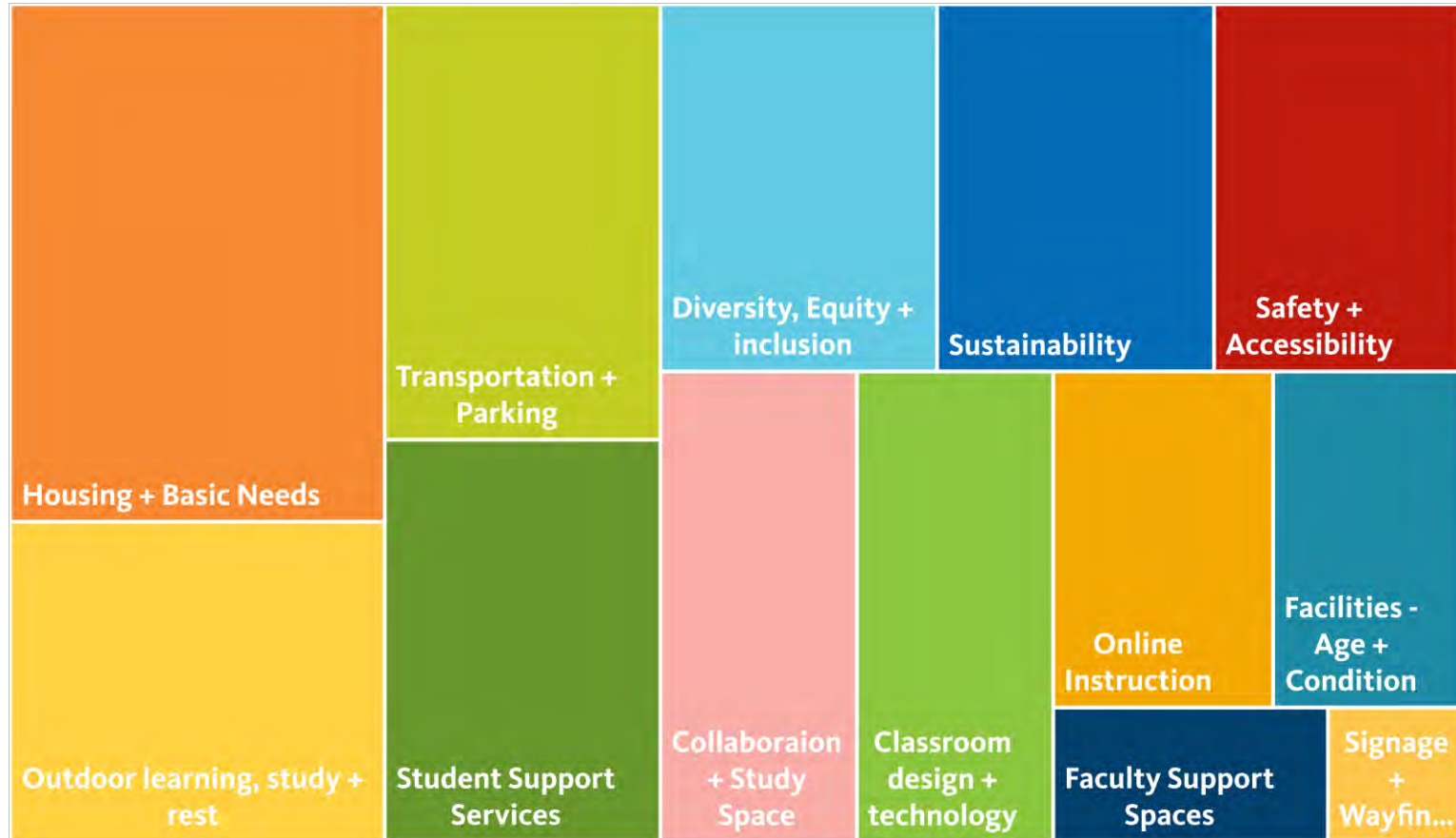
2021 FACILITIES MASTER PLAN



FOOTHILL COLLEGE FOCUS AREAS

Is there anything else you think Foothill College should focus on with regard to the Facilities Master Plan? (You may skip this question if you have no further comments.)

134
responses



- Housing + Basic Needs
- Outdoor learning, study + rest
- Transportation + Parking
- Student Support Services
- Diversity, Equity + inclusion
- Sustainability
- Safety + Accessibility
- Collaboraion + Study Space
- Classroom design + technology
- Online Instruction
- Facilities - Age + Condition
- Faculty Support Spaces
- Signage + Wayfinding







most comments

least comments



Space Types | Codes

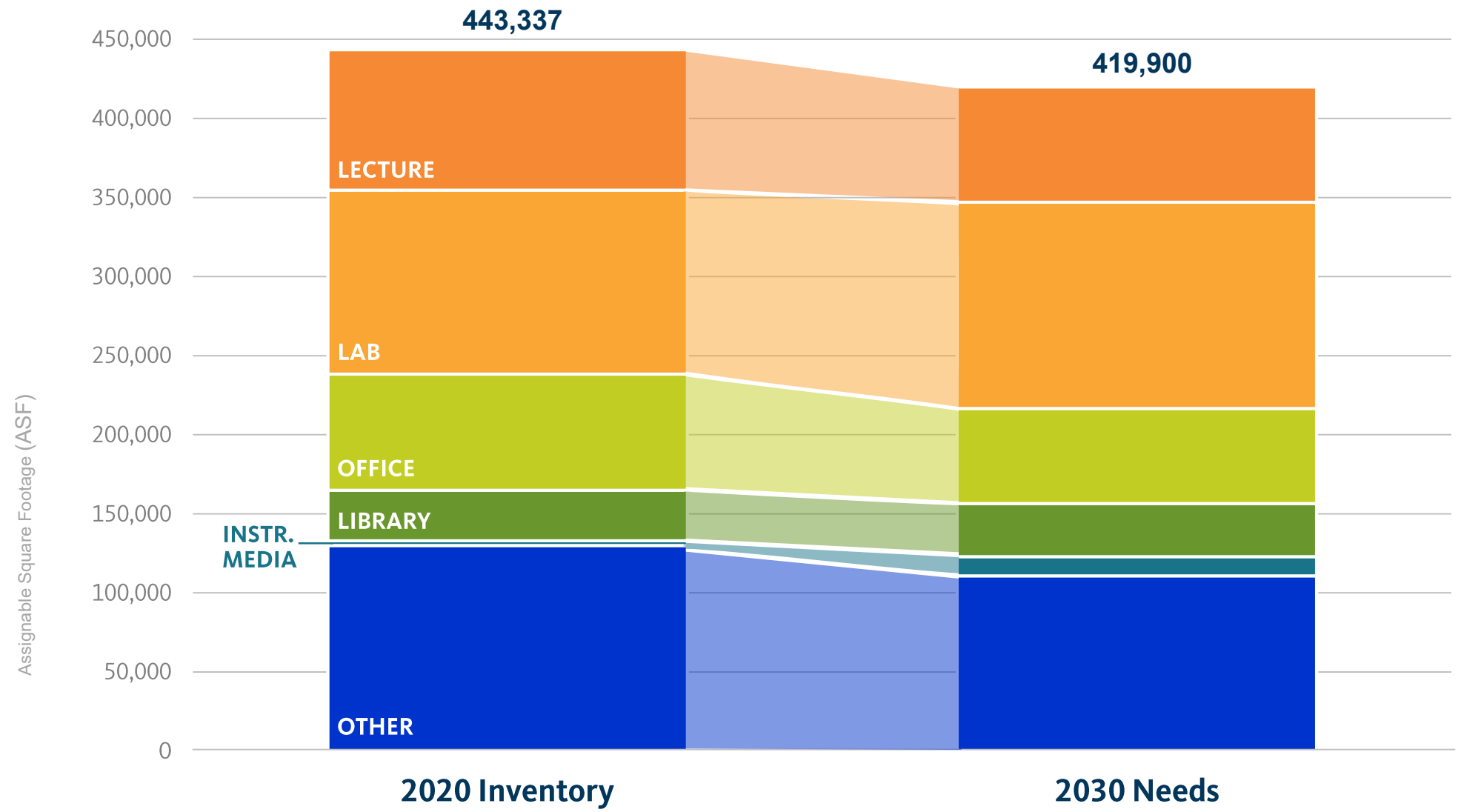
Space Inventory

	 LECTURE	 LAB	 OFFICE	 LIBRARY	 INSTRUCTIONAL MEDIA	 OTHER
Room Use Numbers	100s	200s	300s	400s	530s	520, 540 - 800s
Description	Classrooms Support Spaces	Labs Support Spaces	Offices Support Spaces All offices including administrative and student services	Library Study Tutorial Support Spaces	AV/TV Technology Support Spaces	PE Assembly Food Service Lounge Bookstore Meeting Rooms Data Processing Physical Plant Health Service
CAPACITY/LOAD CATEGORIES						

2021 FACILITIES MASTER PLAN

Foothill Campus + Sunnyvale Campus

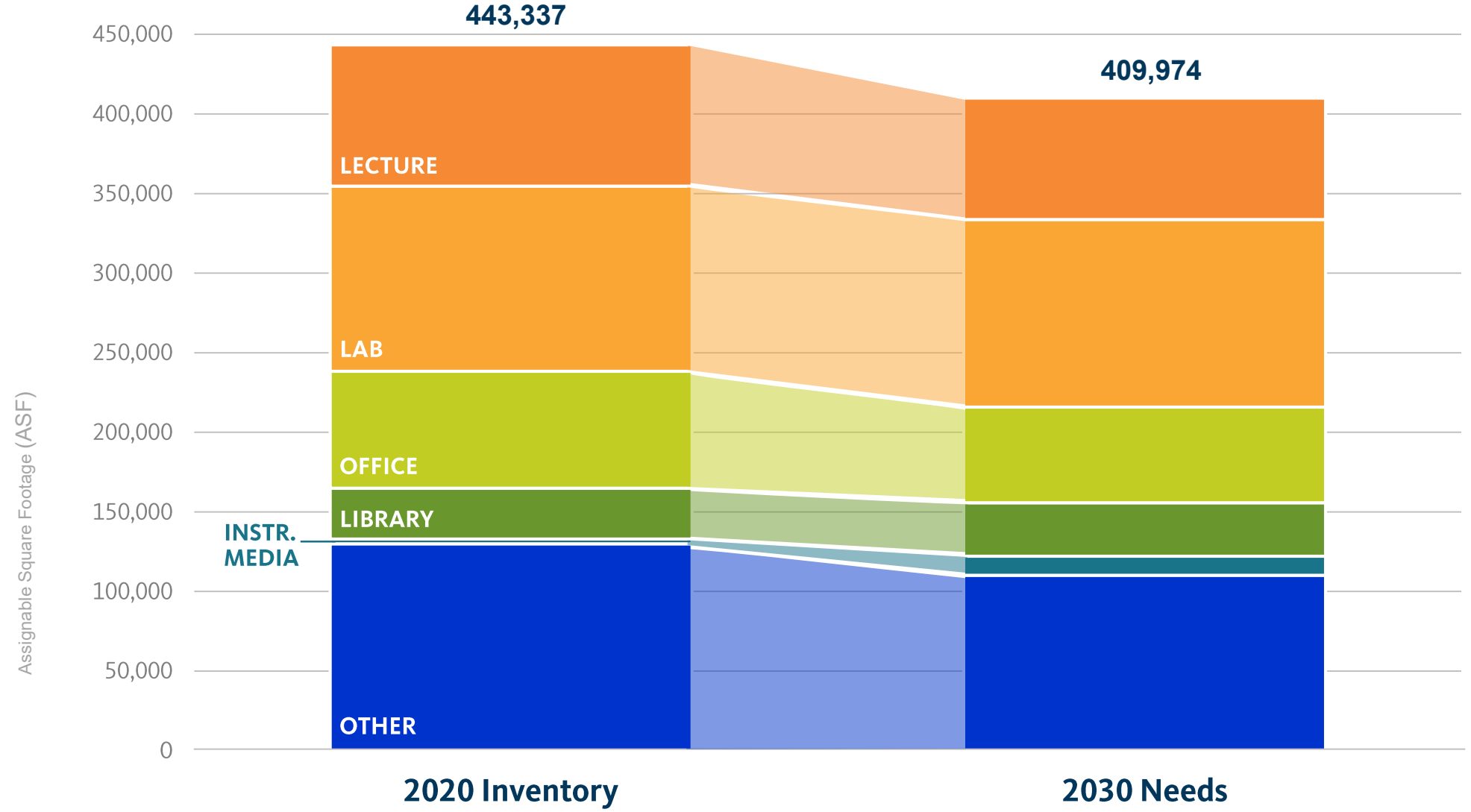
INCLUDING
Online WSCH



2021 FACILITIES MASTER PLAN

Foothill Campus + Sunnyvale Campus

EXCLUDING
Online WSCH



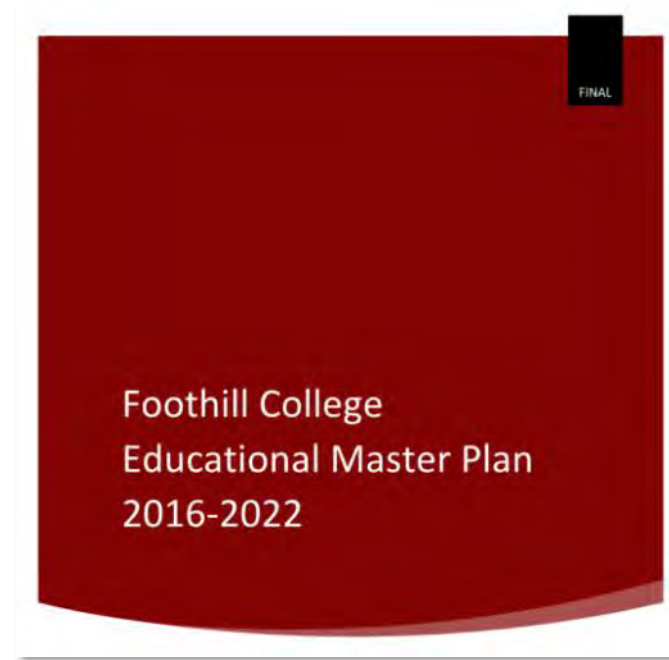
2021 FACILITIES MASTER PLAN



INTEGRATED

INTEGRATION

2016-2022 Educational Master Plan



Goal A

Equity

Goal B

Community

Goal C

Resources

PLANNING PRINCIPLES

Goals A + B

Equity + Community

- *Create welcoming arrival experiences*
- *Provide safe and universally accessible connections*
- *Knit campus together*
- *Improve navigation and wayfinding*
- *Enhance collaboration across the campus*
- *Design campus from the student's perspective*
- *Improve access to student services*
- *Develop spaces to support connections*
- *Prioritize well being and promote physical activity*



PLANNING PRINCIPLES

Goals C

Resources

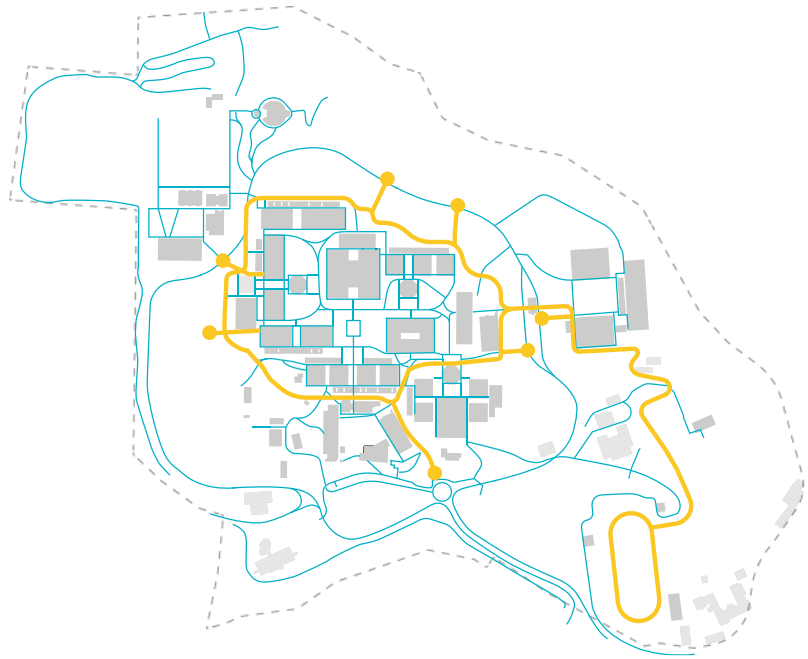
- *Leverage all resources*
- *Repurpose underutilized areas*
- *Right size facilities to support needs*
- *Develop spaces to support both in person and online*
- *Develop flexible spaces to serve multiple uses*
- *Improve functional zoning + operational efficiencies*
- *Position FH to maximize state and local funding ops*



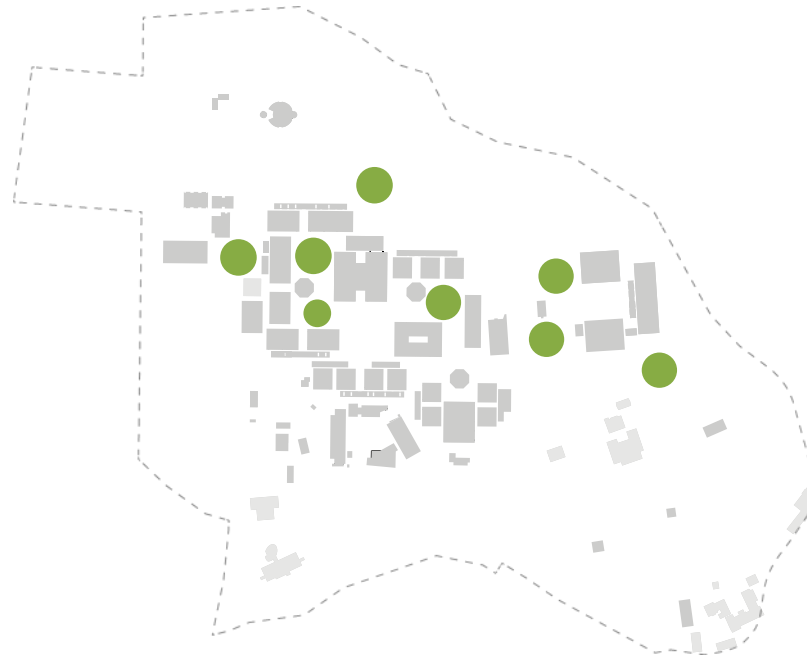


DRAFT RECOMMENDATIONS

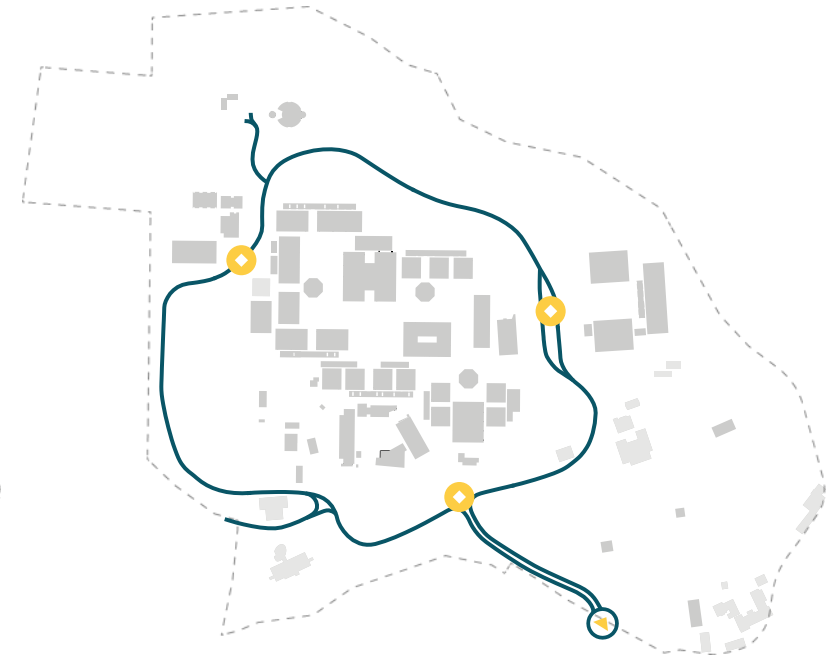
DEVELOPMENT CONCEPTS



KNIT THE CAMPUS TOGETHER



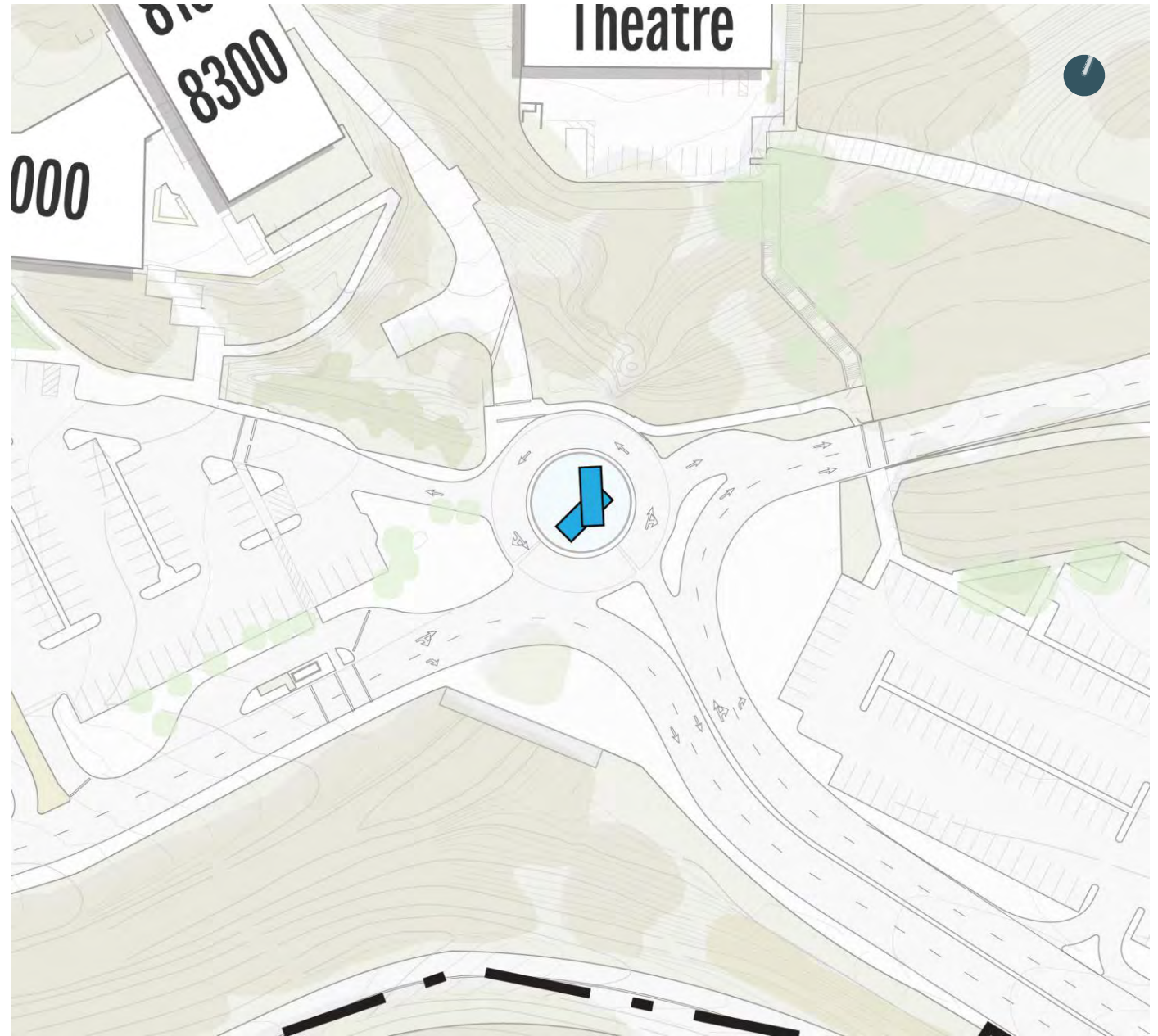
CELEBRATE OPEN SPACES



ENHANCE ARRIVAL EXPERIENCE

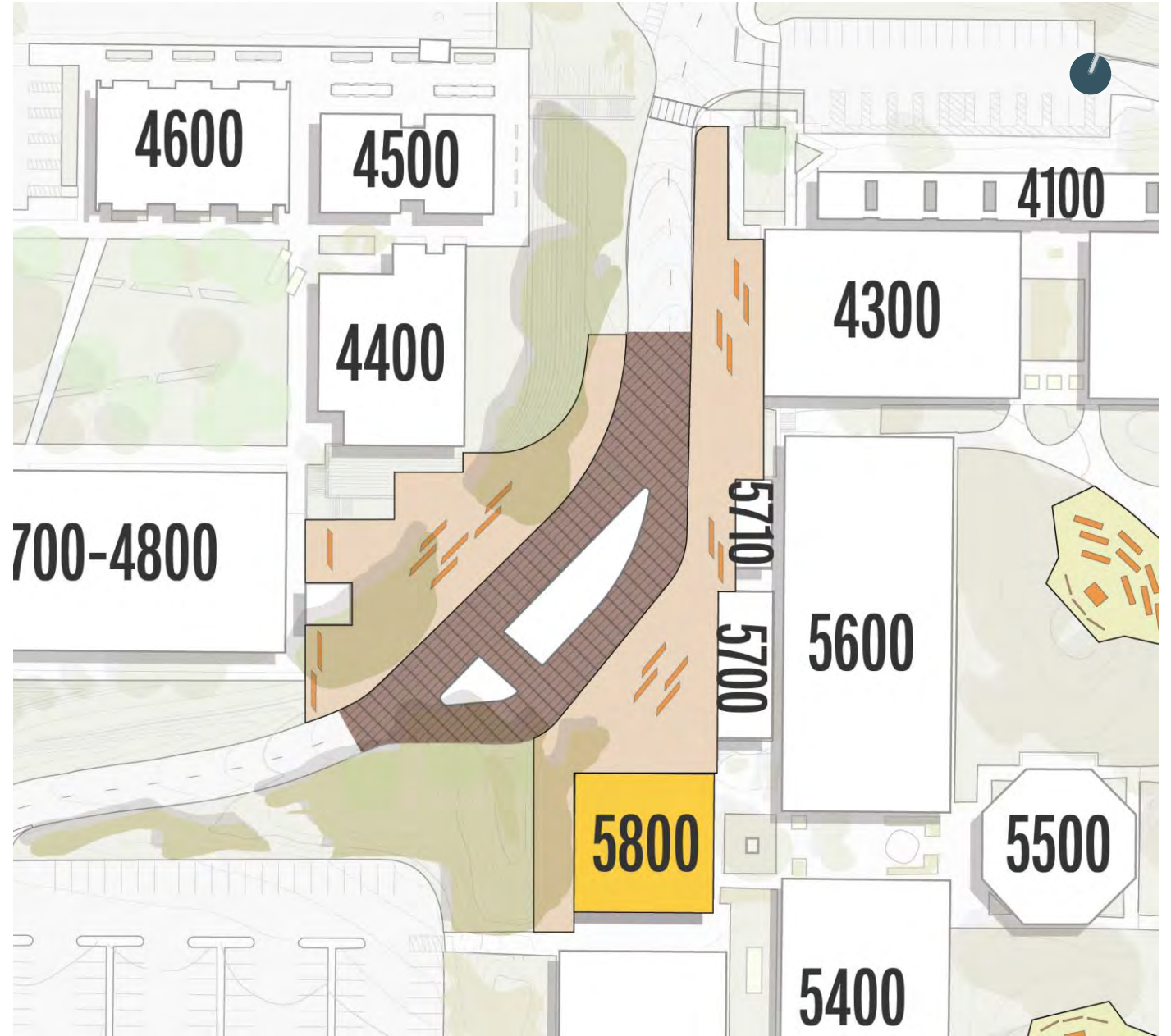
A CAMPUS ENTRY

- Create welcoming arrival experiences
- Improve navigation and wayfinding
- Improve access to programs and services



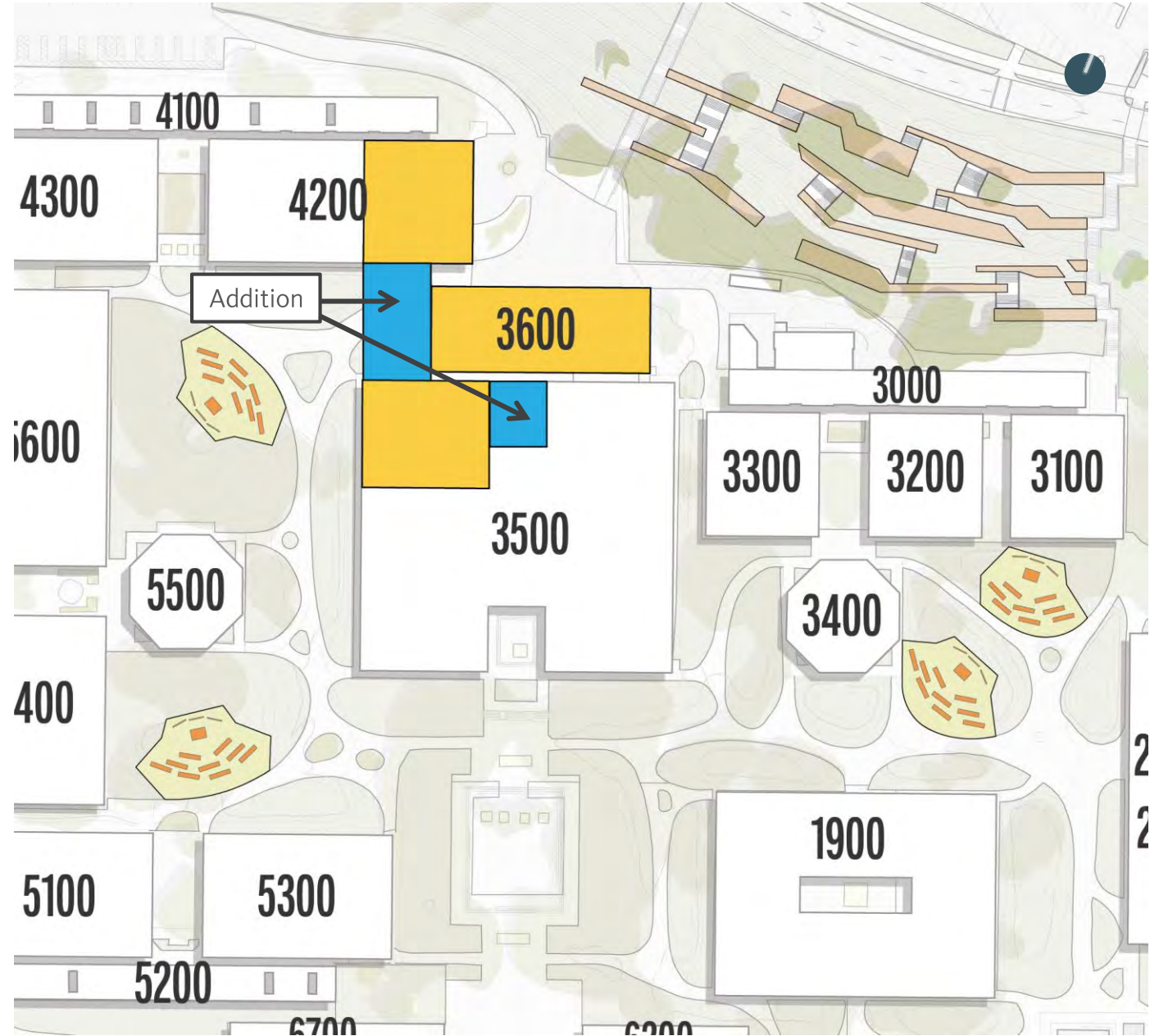
B WEST PLAZA

- Create welcoming arrival experiences
- Provide safe and universally accessible connections
- Knit campus together



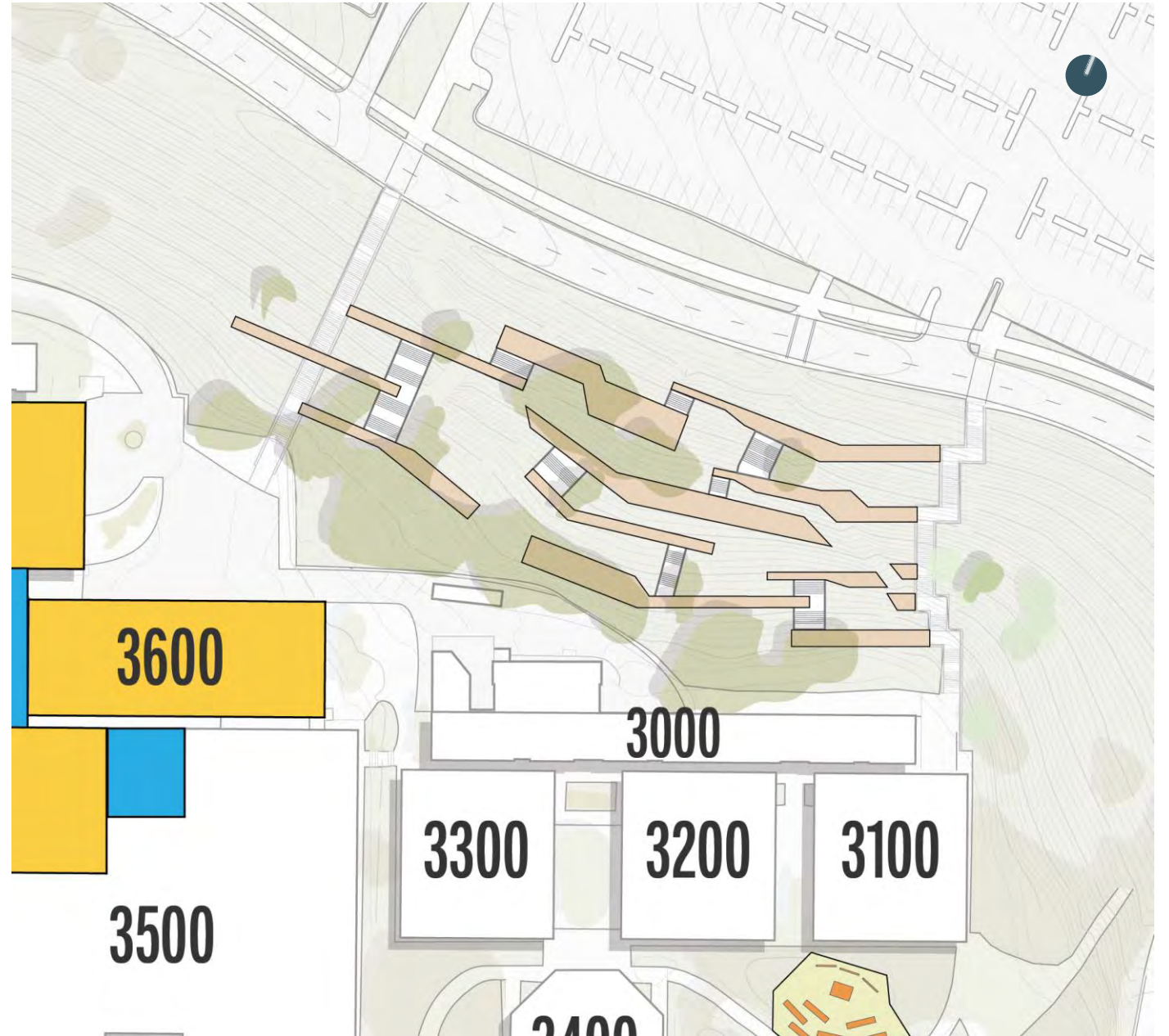
C CAMPUS CORE

- Leverage all resources
- Develop spaces to support connections
- Develop flexible spaces to serve multiple uses



D NORTH SLOPE

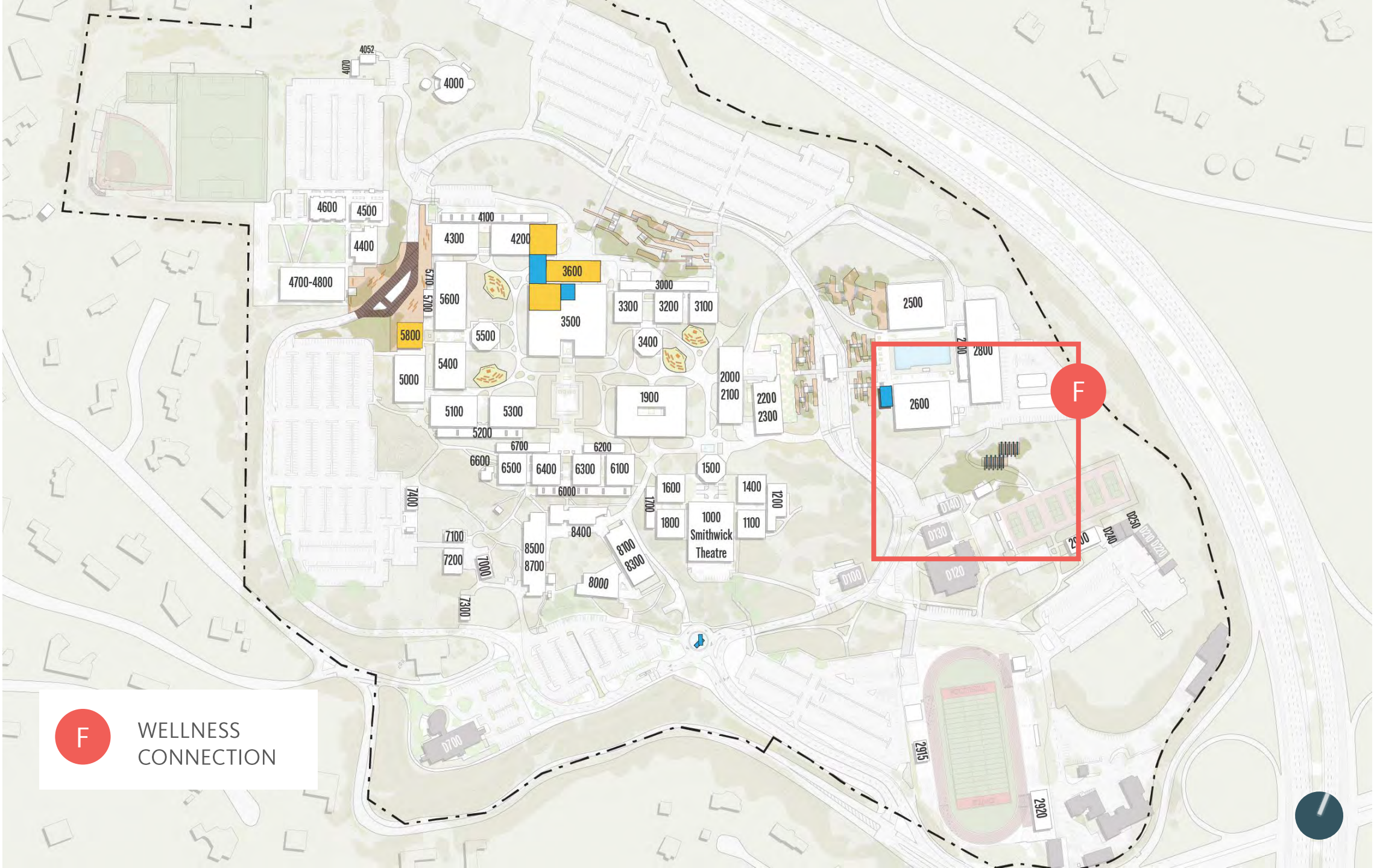
- Create welcoming arrival experiences
- Develop spaces to support connections
- Repurpose underutilized areas



E BRIDGE PLAZA

- Knit campus together
- Enhance collaboration across the campus
- Develop spaces to support connections
- Develop flexible spaces to serve multiple uses



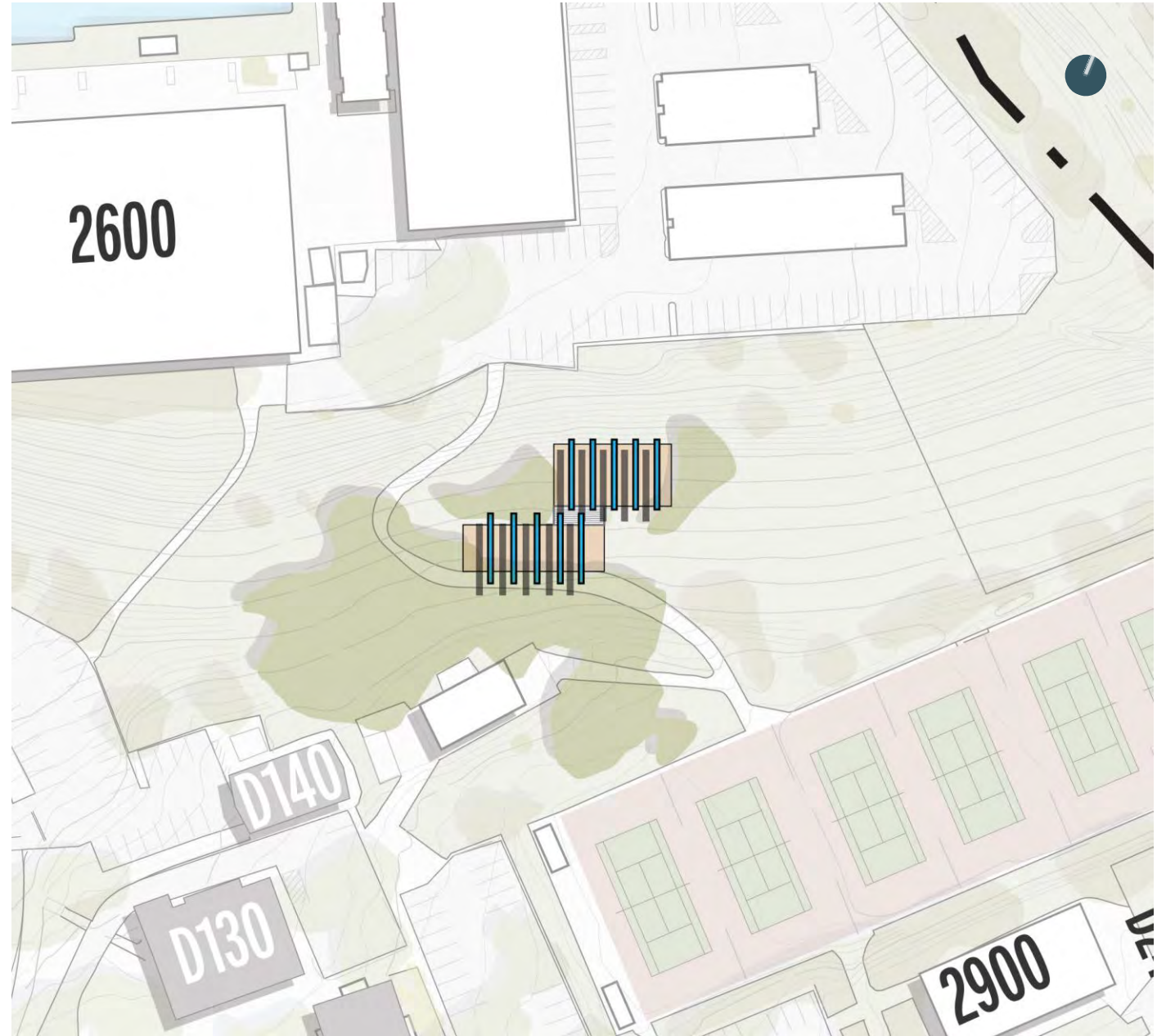


F WELLNESS CONNECTION

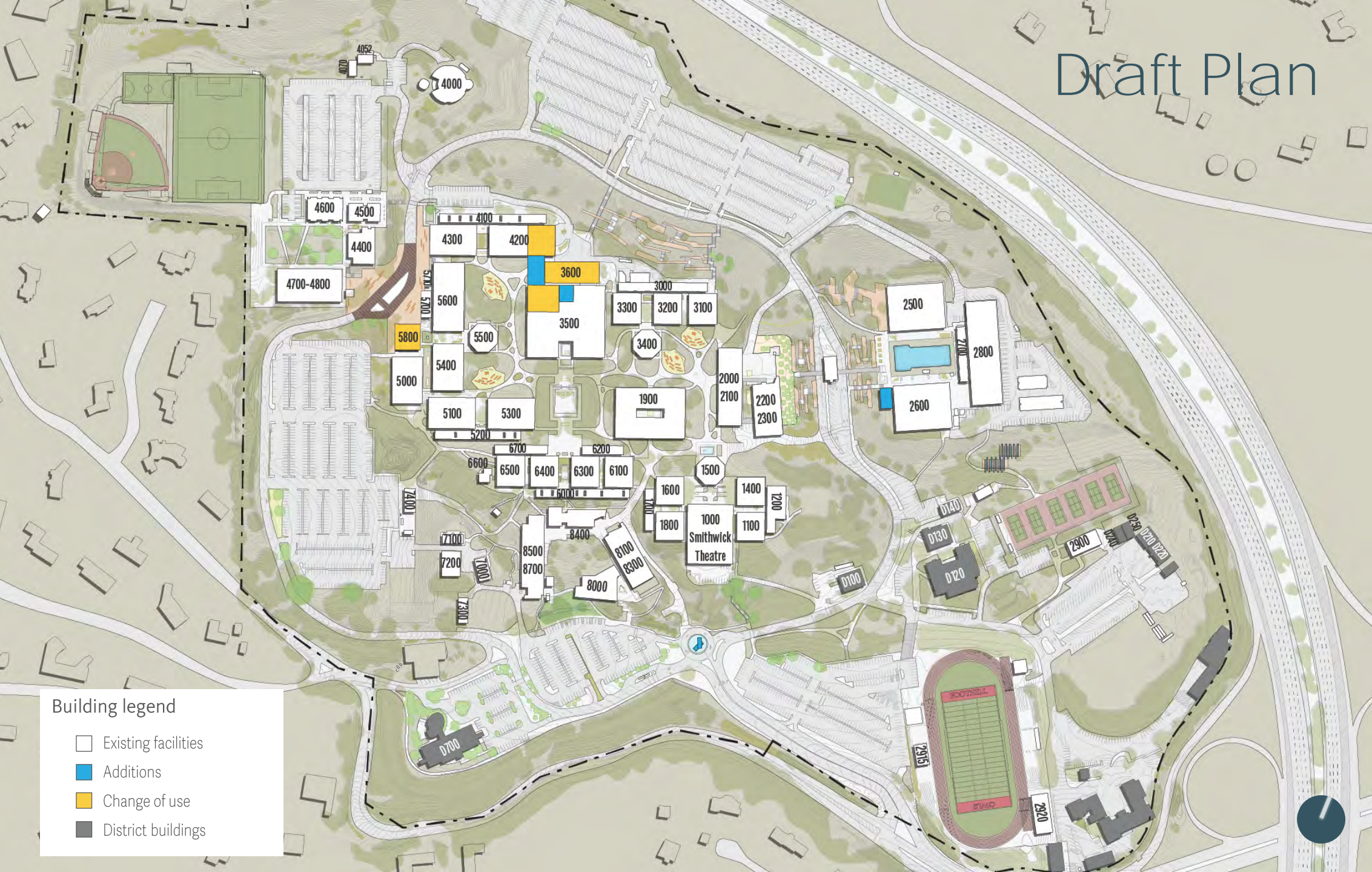


F WELLNESS CONNECTION

- Leverage all areas
- Knit campus together
- Prioritize well being and promote physical activity



Draft Plan



Building legend

- Existing facilities
- Additions
- Change of use
- District buildings

An architectural rendering of a modern building interior. The scene features a wide, light-colored walkway leading towards a large, multi-level staircase with a dark, textured railing. The ceiling is high and features a series of recessed lights and structural beams. The overall atmosphere is clean and contemporary.

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