



# Planning for a four-year campus

Community Open House

December 12/13, 2013

[OSUcascades.edu/4](http://OSUcascades.edu/4)

# Community Collaboration: Open Houses

## Integrated and Focused Public Opportunities

---

2014

February

---

May

---

September

---

December

---

2015

March

---

May

---

# Agenda

## Vision and Values

Becky Johnson, Vice President

## Master Planning Process and Schedule

Kelly Sparks, Associate VP, Finance and Strategic Planning

## DESIGN TEAM

### Site Opportunities and Topography

Barbara Swift, Swift Company, LLC

### Building Massings and Sense of Place

Craig Curtis, Miller Hull Partnership

### Connections & Pathways

Phill Worth, Kittelson & Associates, Inc.

## Next Steps

---

## Breakout Discussions

# Why a 4-year university?

- Central Oregon's long-held vision
- Oregon's 40-40-20 goals
- Stable, growing economy
- Educated workforce
- Research, commercialization
- Attract new businesses
- Keep students in Central Oregon
- Attract students from outside



# Significant steps



**Oct 2011** - Graduate & Research Center

**Aug 2012** – Community gives \$1.6M

**Aug 2012** – OUS 4-year approval

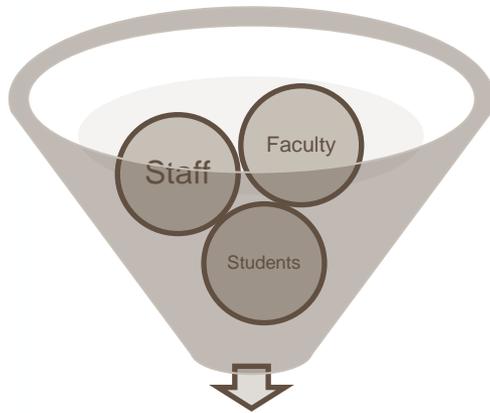
**Sep 2012** - Tykeson Family \$1M gift

**Mar 2013** - Space analysis  
10 -20 acres by 2015  
50-60 acres by 2025.

**Jul 2013** - \$24M in State bonds

# Engaging our communities

## Campus Community Work Groups

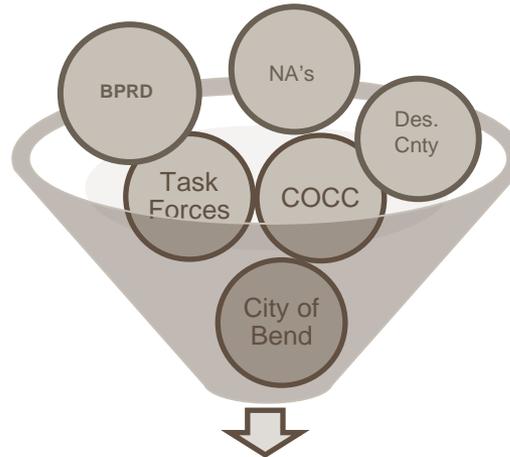


### University Life

Teaching, Learning, Research and Student Life, Recreation, On-Campus Housing

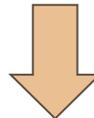


## Expansion Advisory Committee and Task Forces, Key Partners

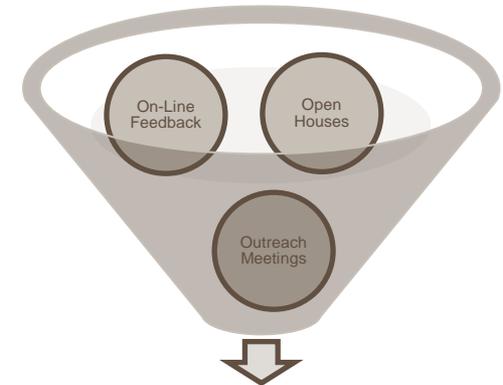


### Town & Gown

Neighborhood Livability, Sustainability, Regional Collaboration, Technology, Housing, Child Care, Transportation, Health Care



## Community Members



### Campus Master Plan Input



**21<sup>st</sup> century university**

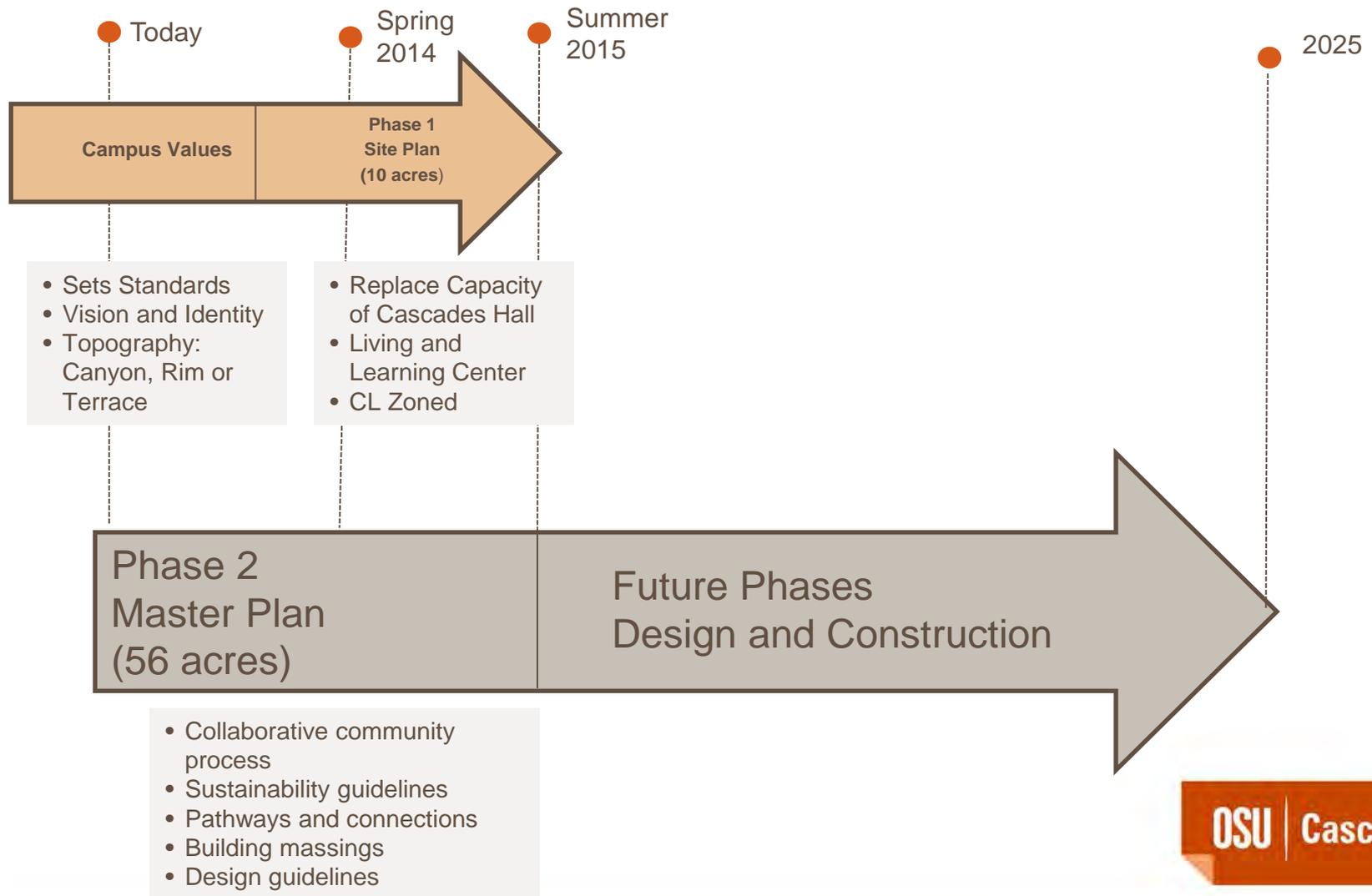
**OSU | Cascades**

# 21<sup>st</sup> Century university

- Sustainability
- Smart growth
- Collaboration
- Community integration and efficiencies
- Student engagement
- Teaching excellence



# Concurrent planning processes



# Phase I and Master Plan Process



# Site Selection Criteria

- Sufficient Acreage
- Timing
- Appeal to Future Students, Parents and Faculty
- Proximity to COCC
- Economic Development Opportunities



# Design Concepts



# OSU-CASCADES CAMPUS | Site Photos



# OSU-CASCADES CAMPUS | Site Photos



---

## OSU-CASCADES CAMPUS | Site Photos



## OSU-CASCADES CAMPUS | Site Photos



---

# OSU-CASCADES CAMPUS | Site Photos



---

# OSU-CASCADES CAMPUS | Site Photos



# OSU-CASCADES CAMPUS | Site Photos



---

# OSU-CASCADES CAMPUS | Site Photos



# OSU-CASCADES CAMPUS | Site Photos



---

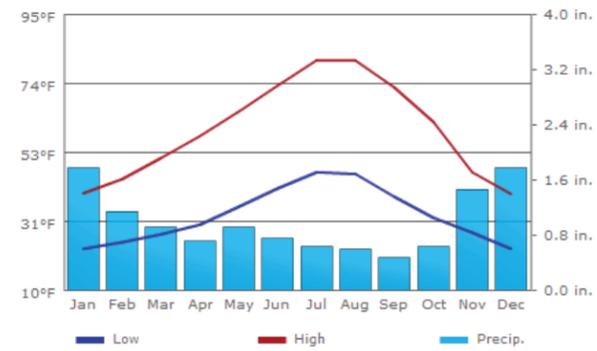
# OSU-CASCADES CAMPUS | Site Photos



*mule deer*



**SOILS + GEOLOGY**



USDA Climate Chart  
**WEATHER**



*high desert meadow*  
**VEGETATION**

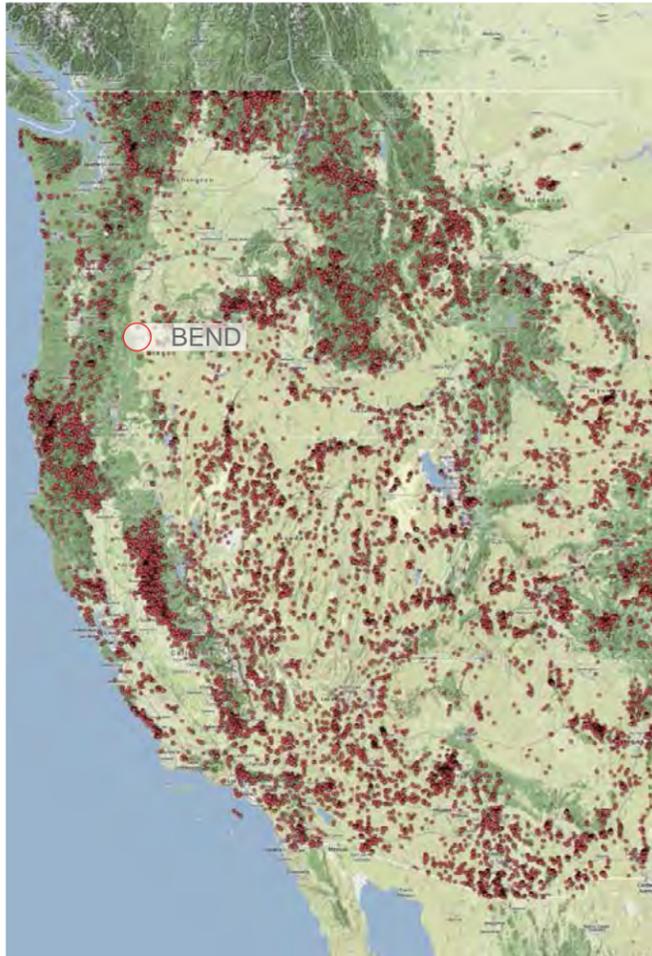


*prairie falcon*



*wildlife tracks on-site*  
**WILDLIFE**

# CENTRAL OREGON | The High Desert + Mazama Province



Mining claims in the Western USA



OSU Site, Oregon



Copper mine, Montana



Borax mine, Utah



Canyon de Chelly, Arizona



Deschutes River, Oregon



Petra, Jordan



Deschutes River, Oregon

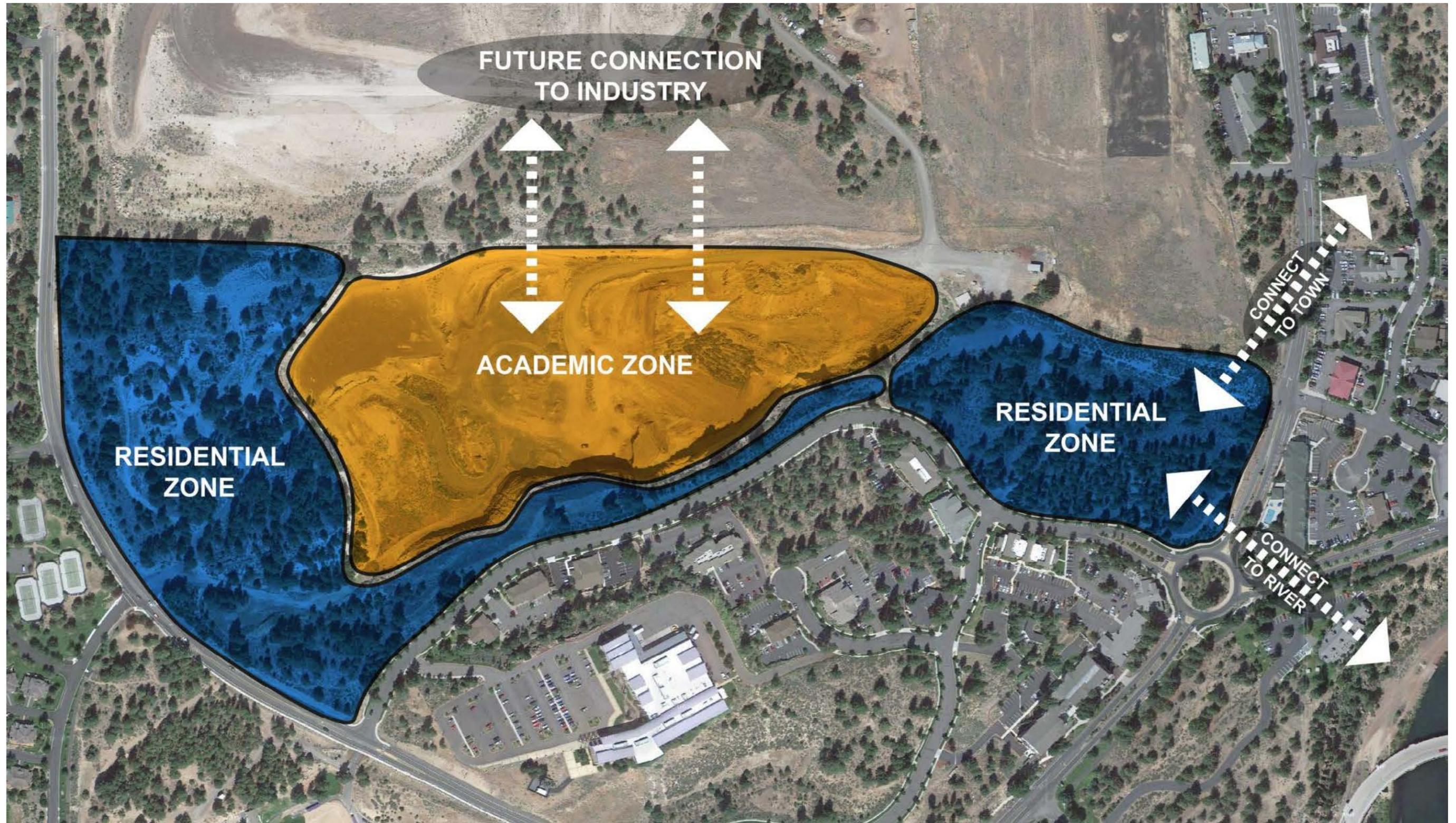


Eastern Quarry, UK | Before Restoration



Eastern Quarry, UK | After Restoration

# EXTRACTION + RESTORATION | Use of Western Lands



# OSU-CASCADES CAMPUS PROGRAM DIAGRAM



**LAND USE KEY**

- |                         |   |
|-------------------------|---|
| ① Academic buildings    | ⑩ Amphitheatre / outdoor gathering areas      |
| ② Housing               | ⑪ Overlooks + vistas                          |
| ③ Student life centers  | ⑫ Vernal ponds + wetland + wet desert meadows |
| ④ Campus main entry     | ⑬ Ponderosa pine forest                       |
| ⑤ Main campus loop road | ⑭ Aspen forests                               |
| ⑥ Minor access road     | ⑮ College courtyards                          |
| ⑦ Service road          | ⑯ Canyon bottom                               |
| ⑧ Parking (onsite)      | ⑰ Canyon cliffs / rim                         |
| ⑨ Not Used              | ⑱ Desert meadow                               |

**LEGEND**

- |                       |                  |
|-----------------------|------------------|
| PROPERTY LIMITS       | ---              |
| PONDEROSA PINE FOREST | ■ (Dark Green)   |
| DECIDUOUS FOREST      | ■ (Light Green)  |
| DESERT MEADOW         | ■ (Yellow-Green) |
| WATER                 | ■ (Blue)         |

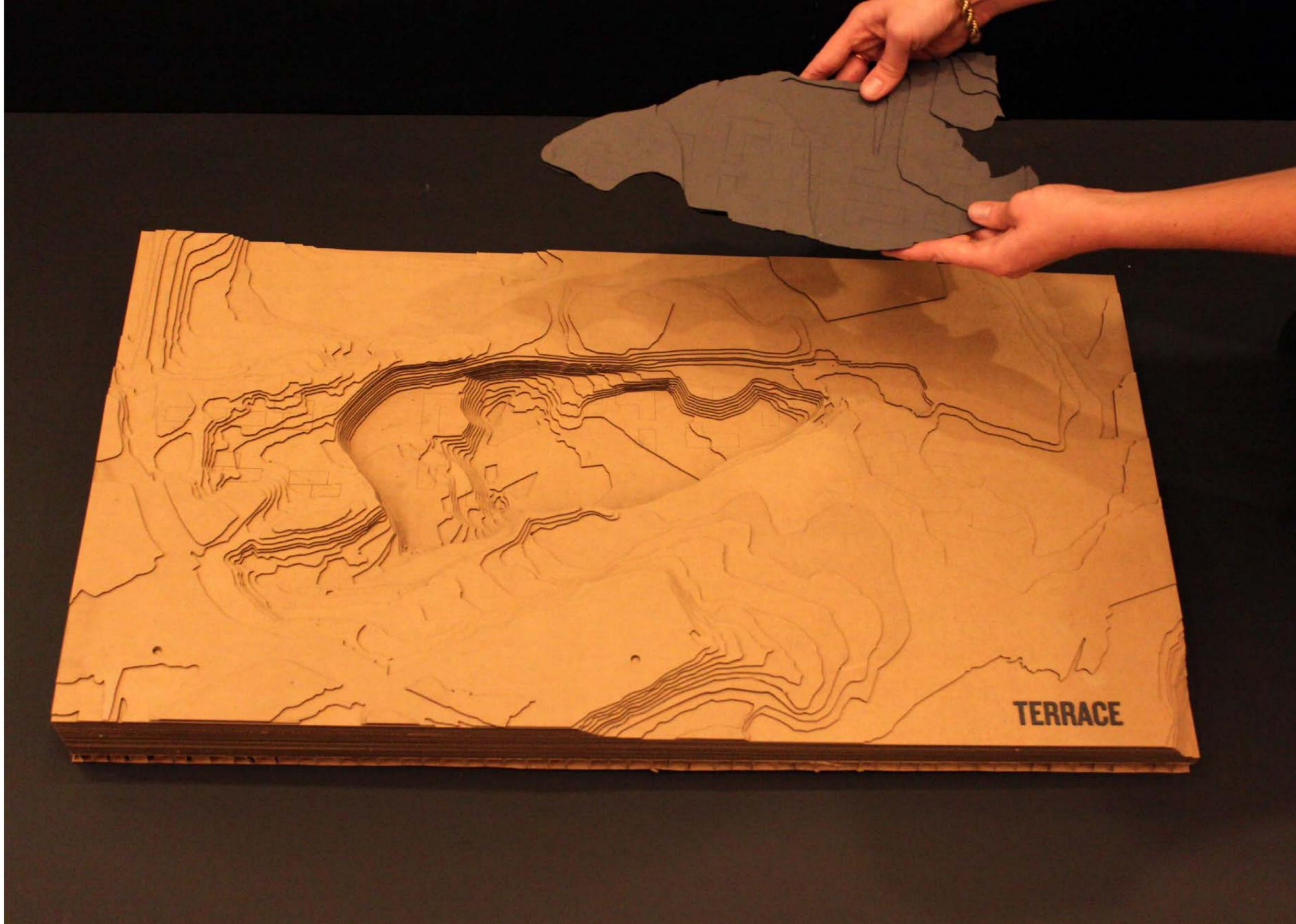
**MASTER PLAN TERRACE | Illustrative Plan**



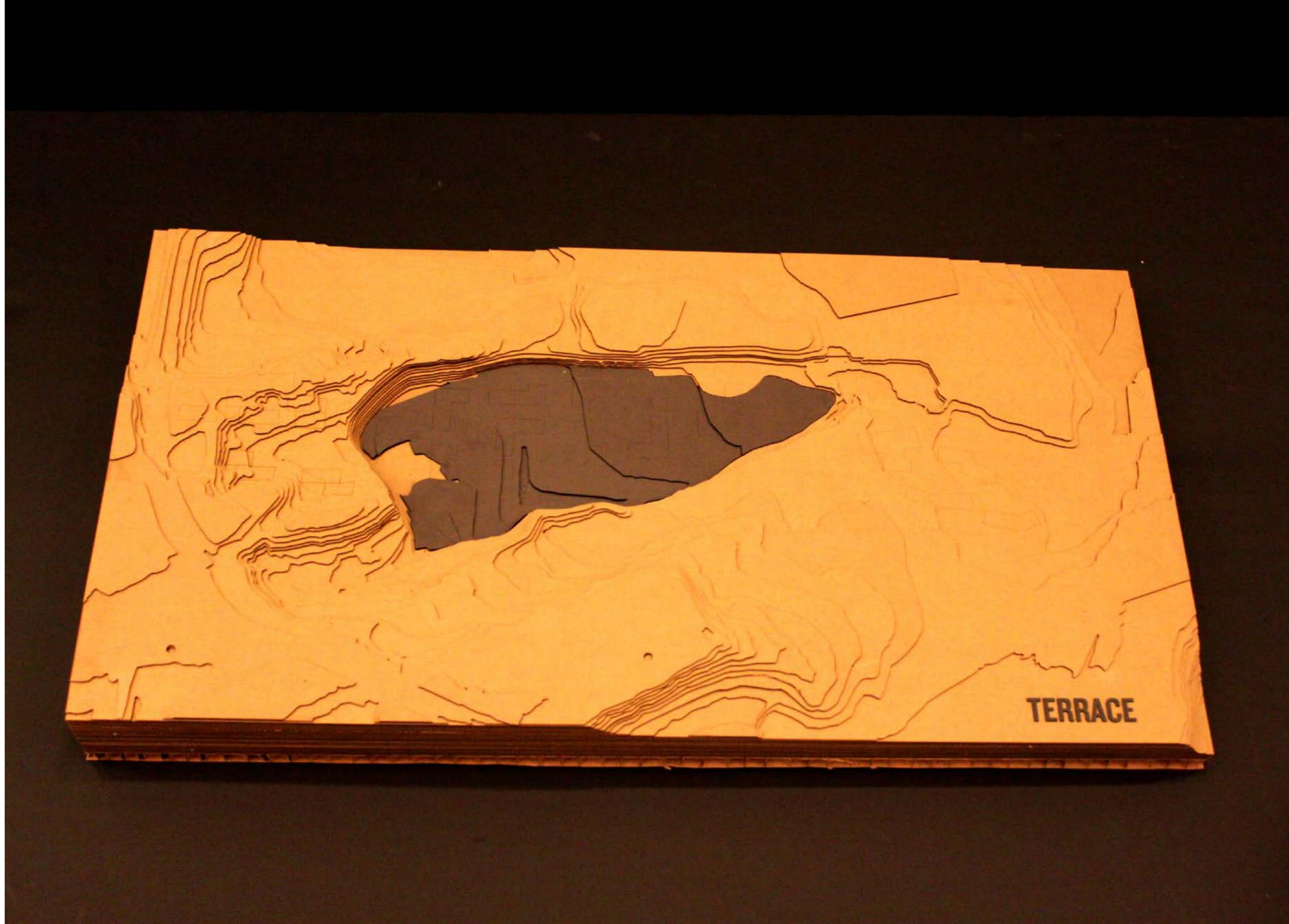


# MASTER PLAN TERRACE | Pedestrian Circulation + Outdoor Gathering





MASTER PLAN | TERRACE



MASTER PLAN | TERRACE



**LAND USE KEY**

- |                         |   |
|-------------------------|---|
| ① Academic buildings    | ⑩ Amphitheatre / outdoor gathering areas      |
| ② Housing               | ⑪ Overlooks + vistas                          |
| ③ Student life centers  | ⑫ Vernal ponds + wetland + wet desert meadows |
| ④ Campus main entry     | ⑬ Ponderosa pine forest                       |
| ⑤ Main campus loop road | ⑭ Aspen forests                               |
| ⑥ Minor access road     | ⑮ College courtyards                          |
| ⑦ Service road          | ⑯ Canyon bottom                               |
| ⑧ Parking (onsite)      | ⑰ Canyon cliffs / rim                         |
| ⑨ Not used              | ⑱ Desert meadow                               |

**LEGEND**

- |                       |     |
|-----------------------|-----|
| PROPERTY LIMITS       | --- |
| PONDEROSA PINE FOREST |     |
| DECIDUOUS FOREST      |     |
| DESERT MEADOW         |     |
| WATER                 |     |

**MASTER PLAN CANYON | Illustrative Plan**



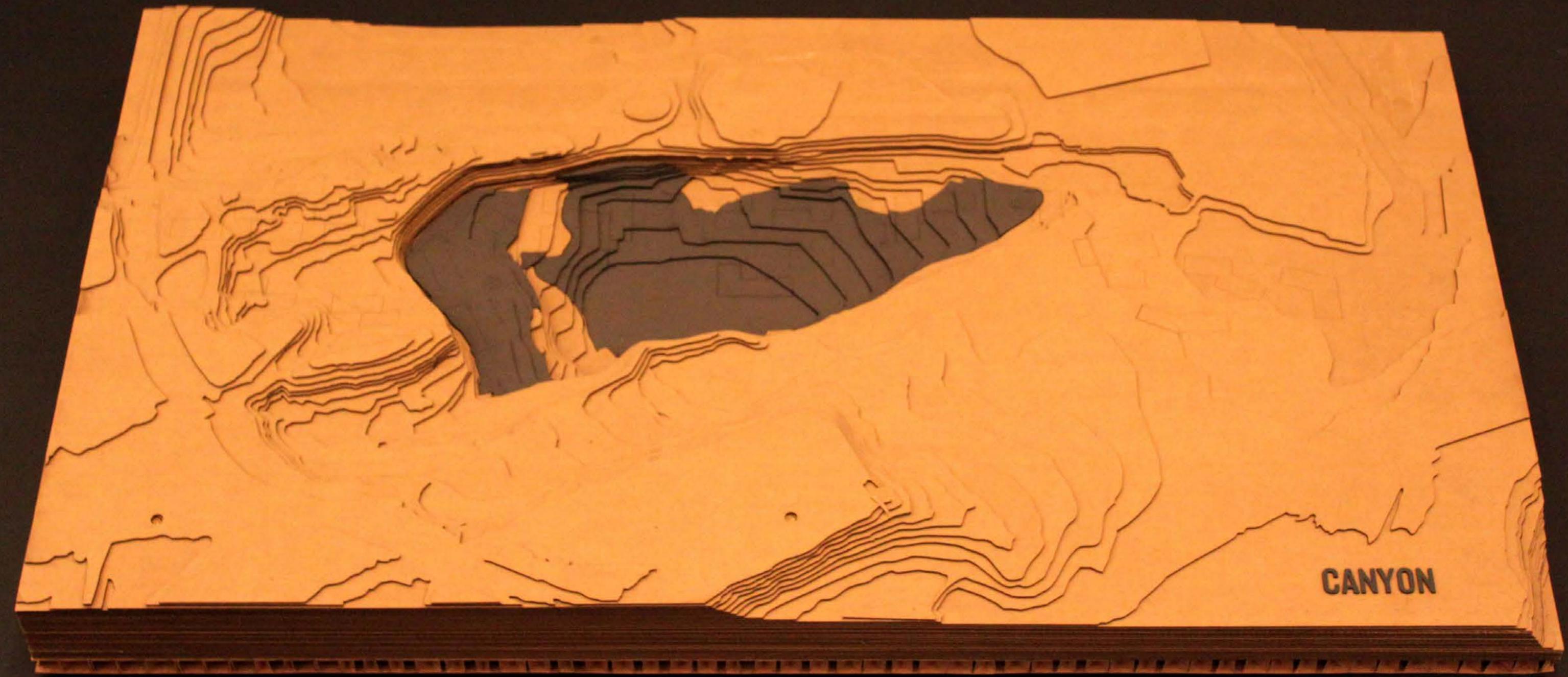


**LEGEND**

- PROPERTY LIMITS
- OUTDOOR GATHERING AREA
- PEDESTRIAN CIRCULATION

# MASTER PLAN CANYON | Pedestrian Circulation + Outdoor Gathering





MASTER PLAN | CANYON



**LAND USE KEY**

- |                         |   |
|-------------------------|---|
| ① Academic buildings    | ⑩ Amphitheatre / outdoor gathering area       |
| ② Housing               | ⑪ Overlooks + vistas                          |
| ③ Student life centers  | ⑫ Vernal ponds + wetland + wet desert meadows |
| ④ Campus main entry     | ⑬ Ponderosa pine forest                       |
| ⑤ Main campus loop road | ⑭ Aspen forests                               |
| ⑥ Minor access road     | ⑮ College courtyards                          |
| ⑦ Service road          | ⑯ Canyon bottom                               |
| ⑧ Parking (onsite)      | ⑰ Canyon cliffs / rim                         |
| ⑨ Not Used              | ⑱ Desert meadow                               |

**LEGEND**

- |                       |                  |
|-----------------------|------------------|
| PROPERTY LIMITS       | ---              |
| PONDEROSA PINE FOREST | ■ (Dark Green)   |
| DECIDUOUS FOREST      | ■ (Light Green)  |
| DESERT MEADOW         | ■ (Yellow-Green) |
| WATER                 | ■ (Blue)         |

**MASTER PLAN RIM | Illustrative Plan**





**LEGEND**

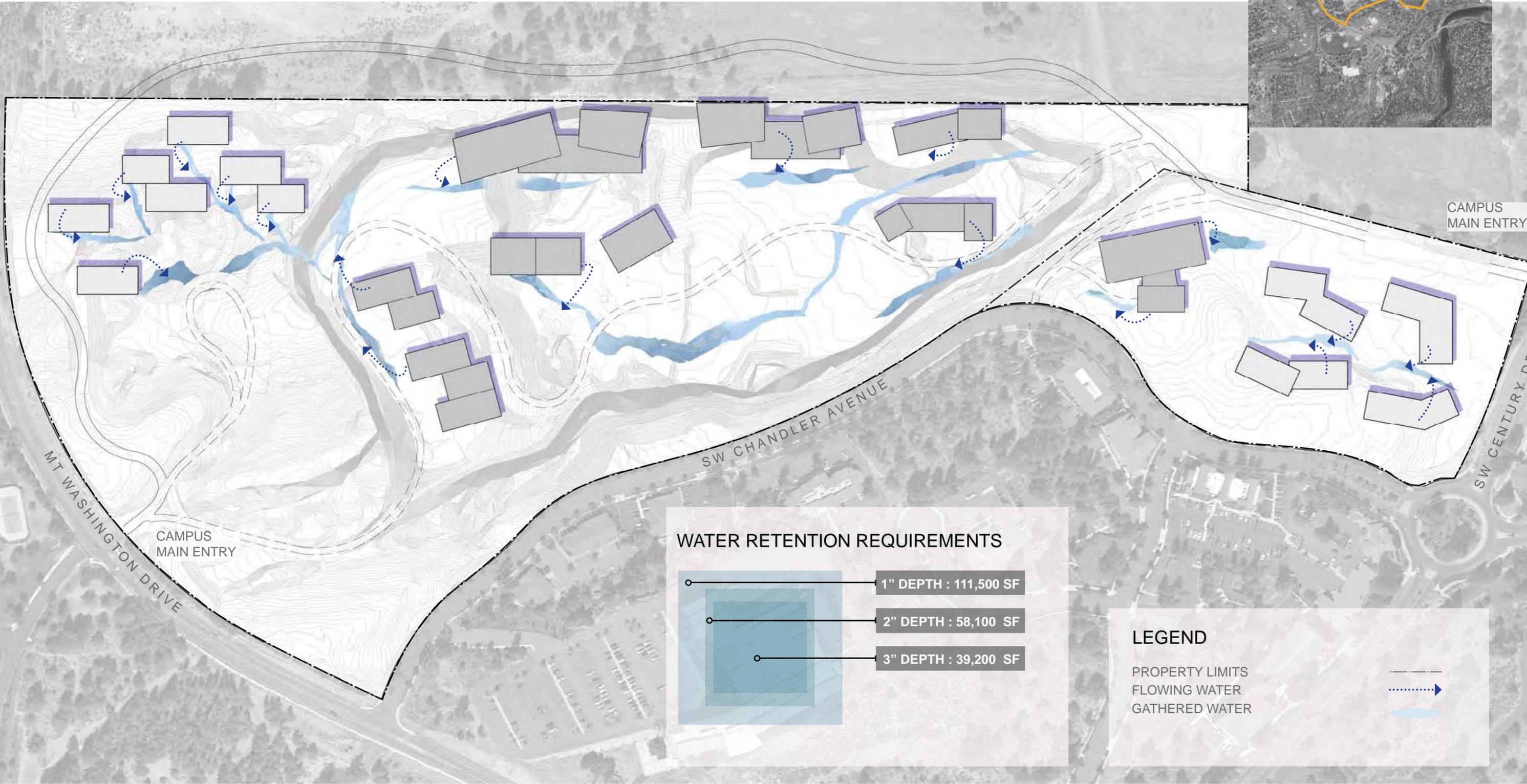
PROPERTY LIMITS 

OUTDOOR GATHERING AREA 

PEDESTRIAN CIRCULATION 

# MASTER PLAN RIM | Pedestrian Circulation + Outdoor Gathering





**WATER RETENTION REQUIREMENTS**

	1" DEPTH : 111,500 SF
	2" DEPTH : 58,100 SF
	3" DEPTH : 39,200 SF

**LEGEND**

- PROPERTY LIMITS
- FLOWING WATER
- GATHERED WATER

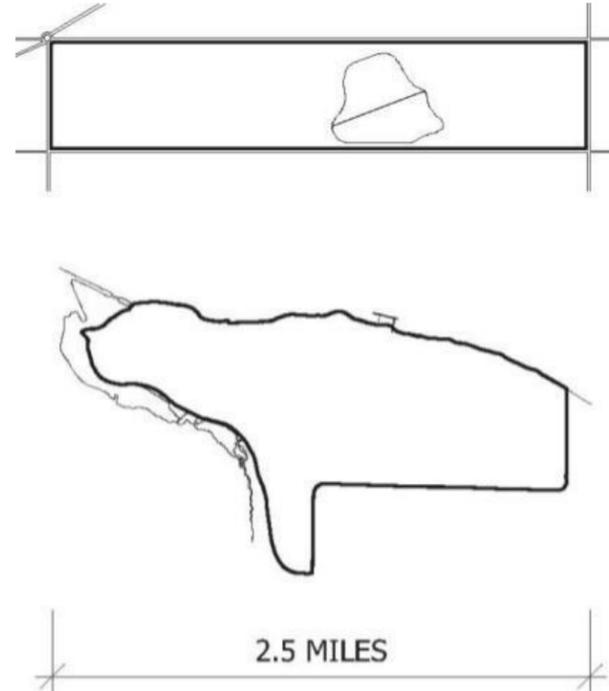
# MASTER PLAN | Water





# MASTER PLAN | RIM

# OSU-CASCADES CAMPUS | BUILDING MASSING + SENSE OF PLACE



PIERCE COUNTY ENVIRONMENTAL SERVICES BUILDING

# CASE STUDY | Pierce County Environmental Services Building



## CASE STUDY | Pierce County Environmental Services Building



## CASE STUDY | Pierce County Environmental Services Building

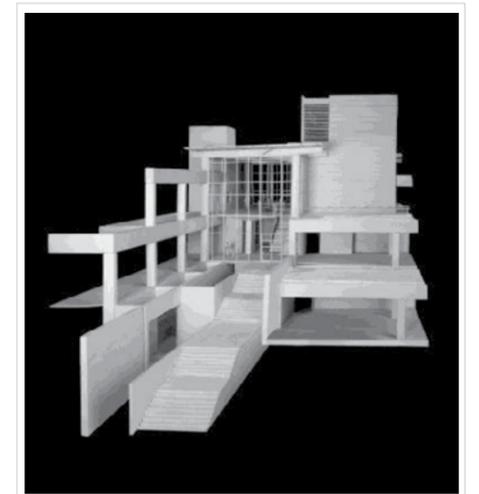
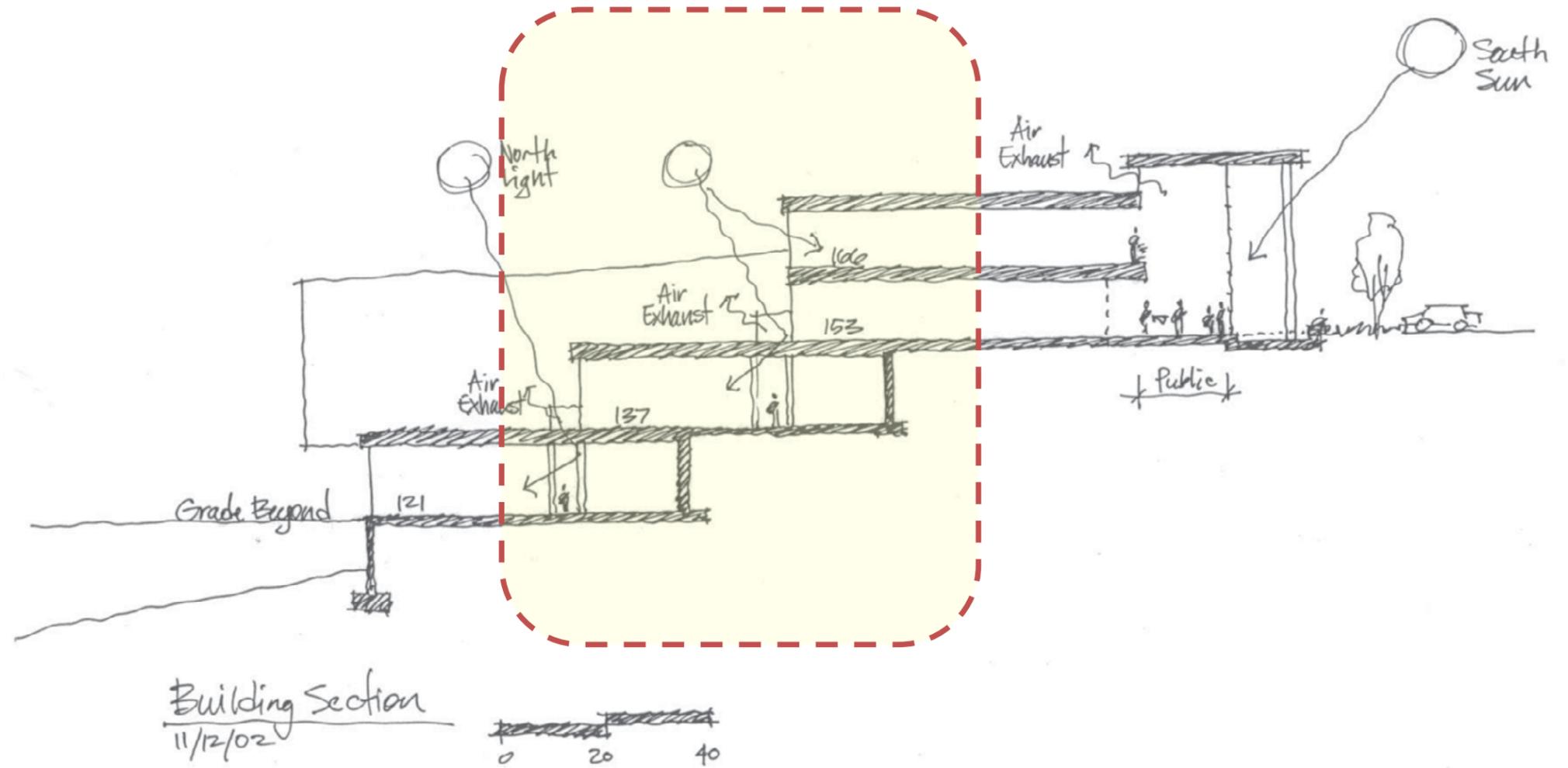


# CASE STUDY | Pierce County Environmental Services Building



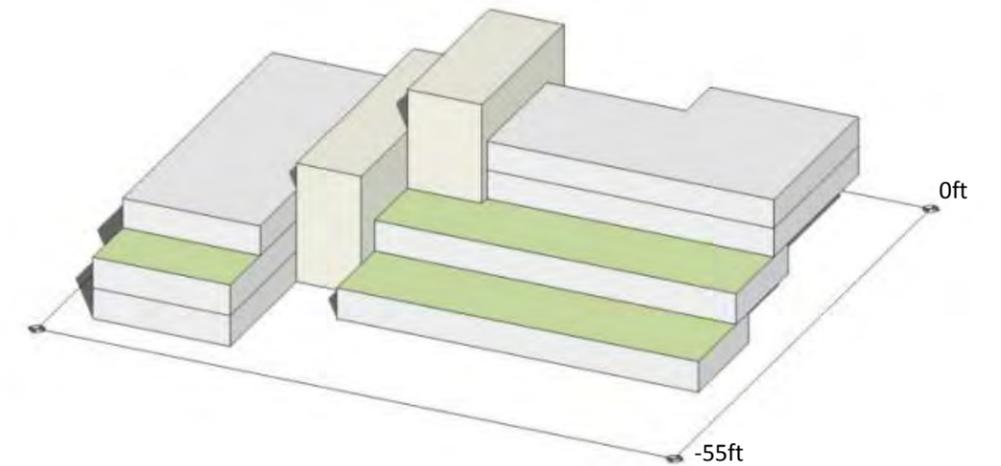
## CASE STUDY | Olympic College, Poulsbo WA





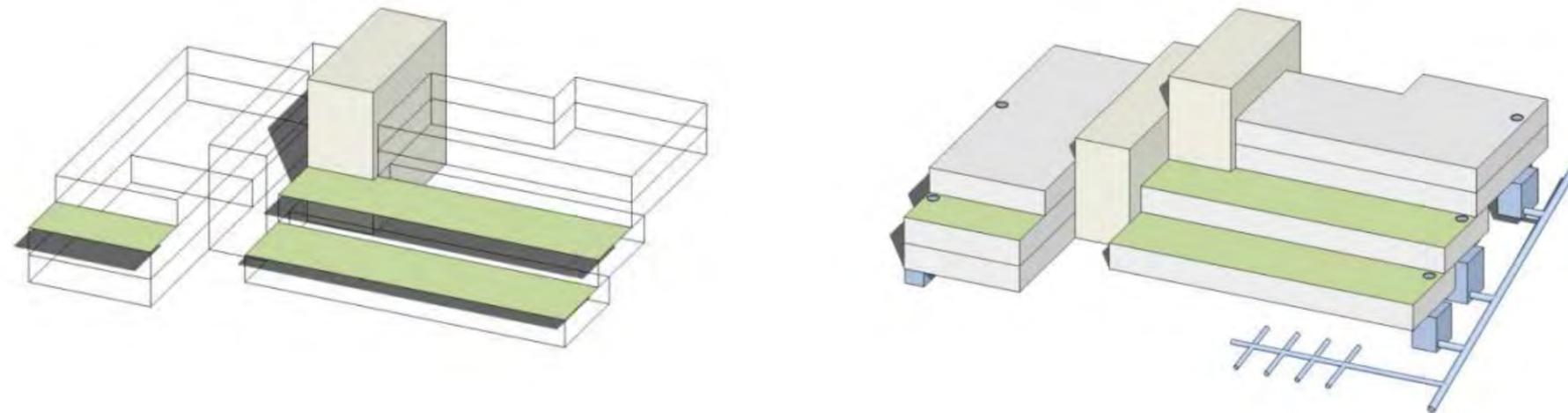
KITSAP COUNTY ADMINISTRATION BUILDING

# CASE STUDY | Kitsap County Administration Building



KITSAP COUNTY ADMINISTRATION BUILDING

## CASE STUDY | Kitsap County Administration Building



## CASE STUDY | Kitsap County Administration Building



## CASE STUDY | Kitsap County Administration Building

PUBLIC ENTRY



## CASE STUDY | Kitsap County Administration Building



## CASE STUDY | Kitsap County Administration Building



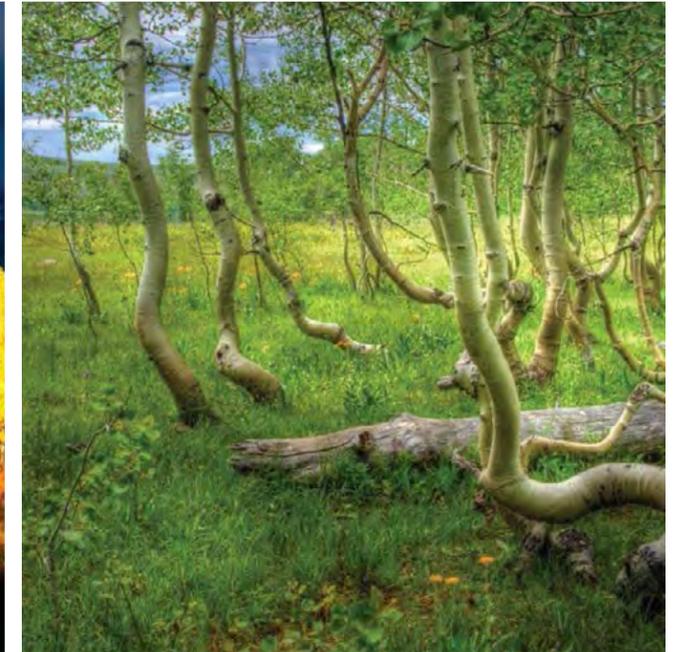
## CASE STUDY | Kitsap County Administration Building



*aspen forests - texture*



*aspen forests - seasonal color*



*wet desert meadows*



*ponderosa groves*



*integrated pedestrian spines + walks*



*high desert meadows*

# IDENTITY TOOLS | landscape + site integration

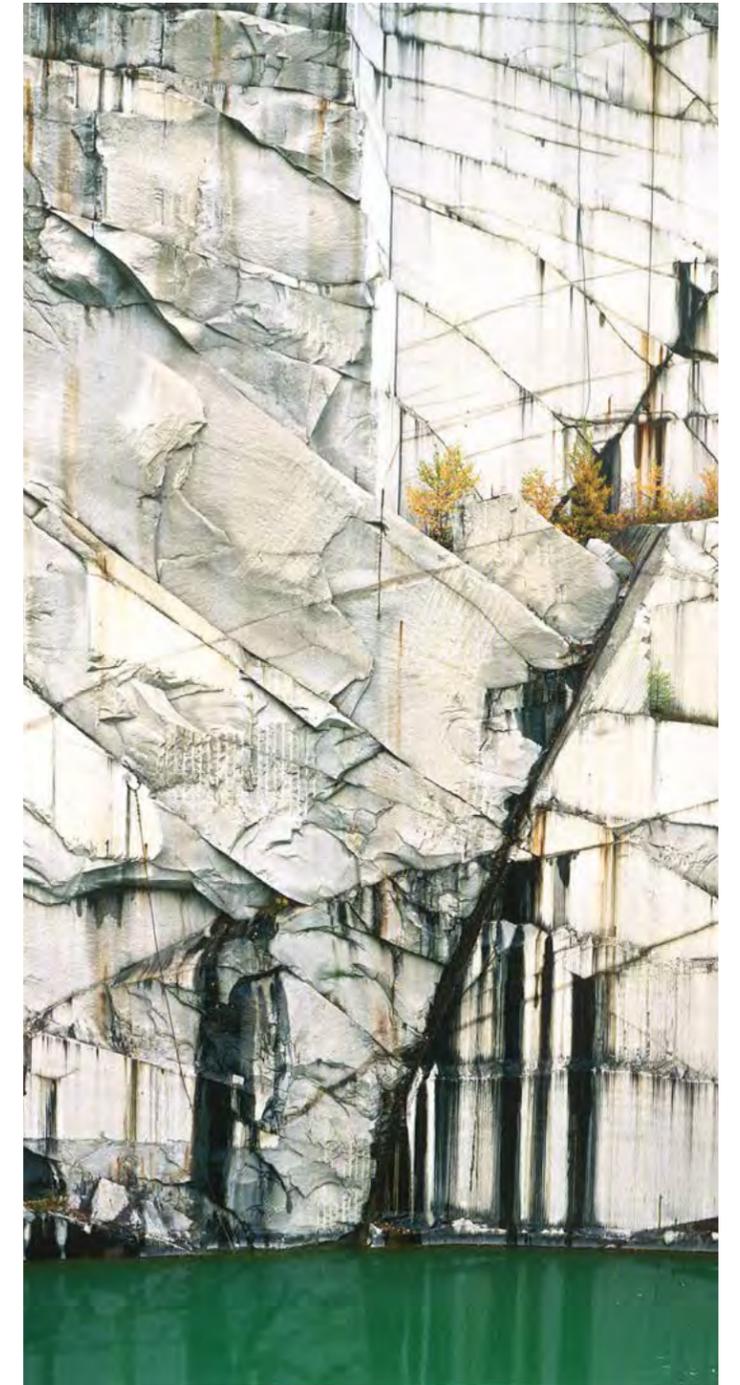
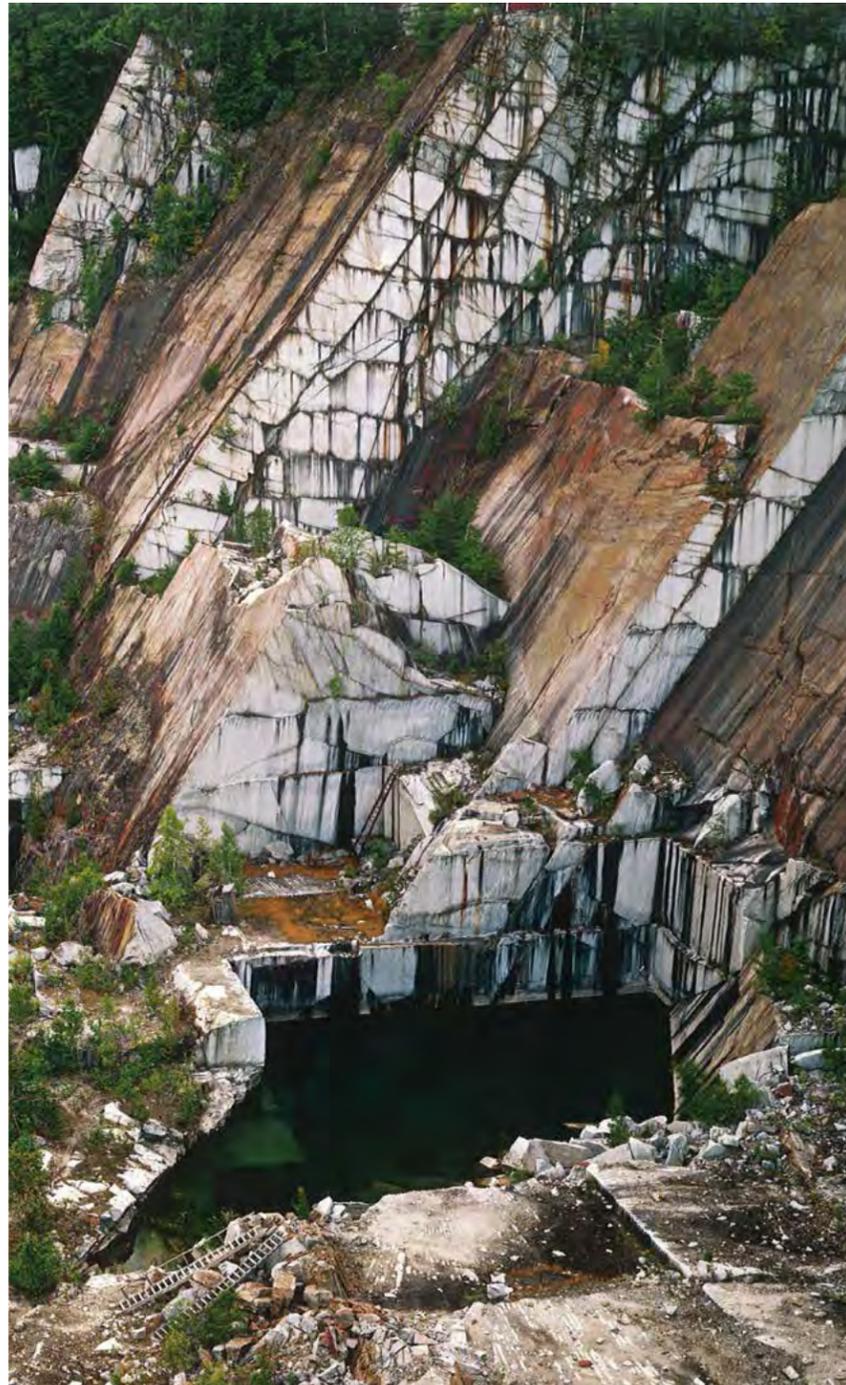


photo credit: Edward Burtynsky

## IDENTITY TOOLS | Embracing Existing Condition



*building sites preserve healthy forest*



*rooflines work with topography + views*



*architectural character is "of the place"*



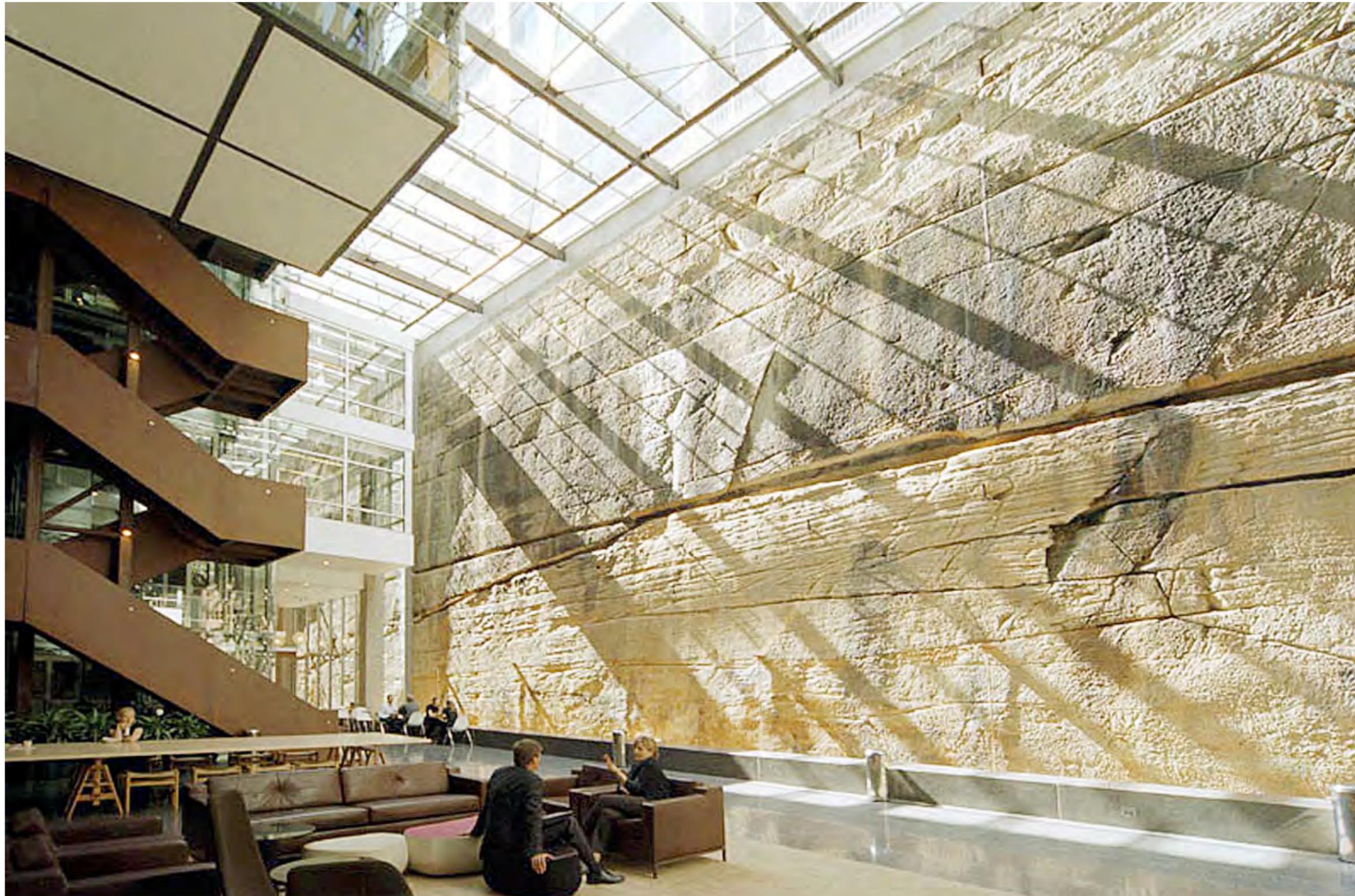
*thoughtful insertions of parking*



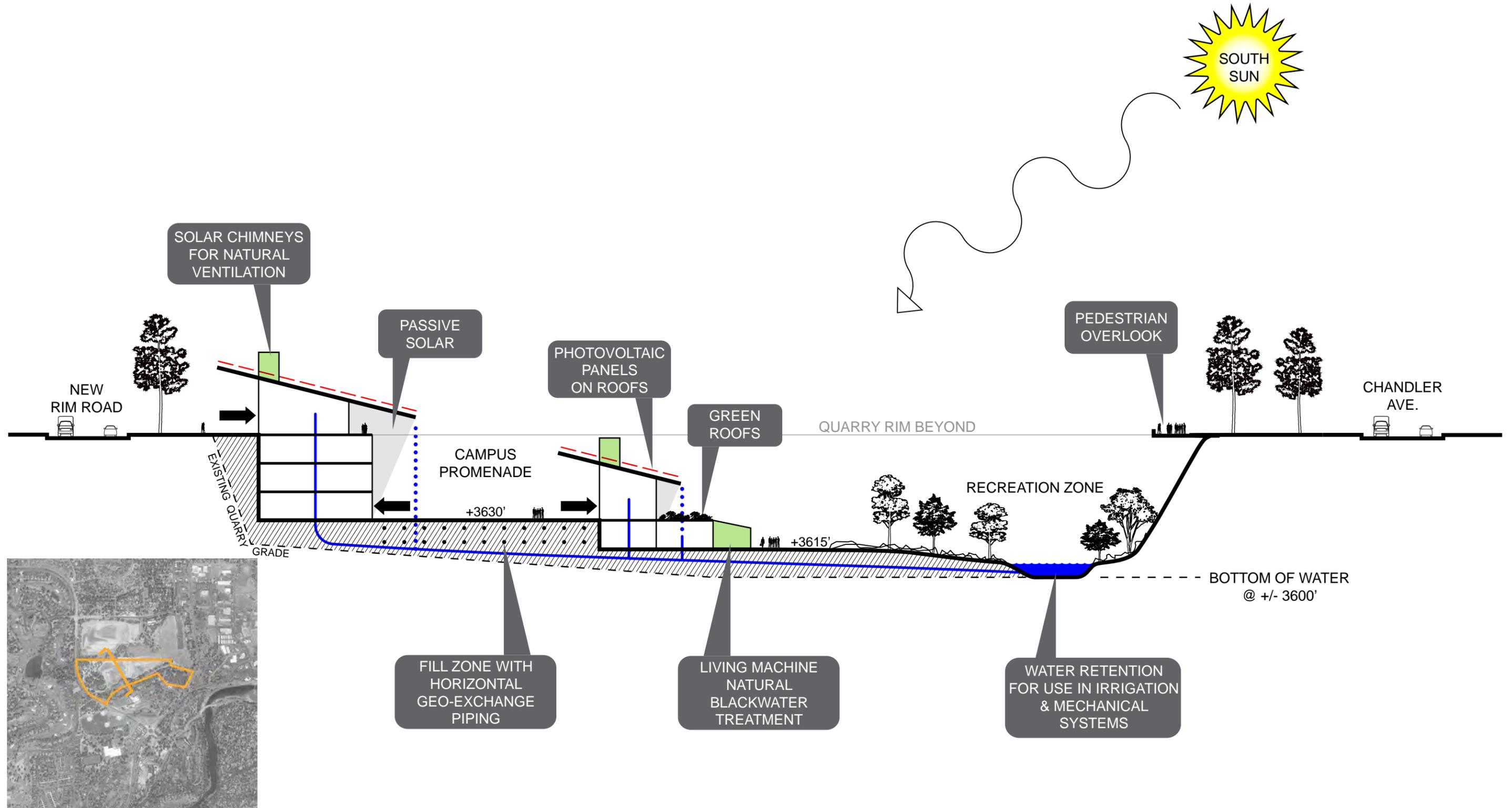
*built elements enhance student life + campus identity*



## IDENTITY TOOLS | built environment + student life



## CASE STUDY | Embracing Existing Condition

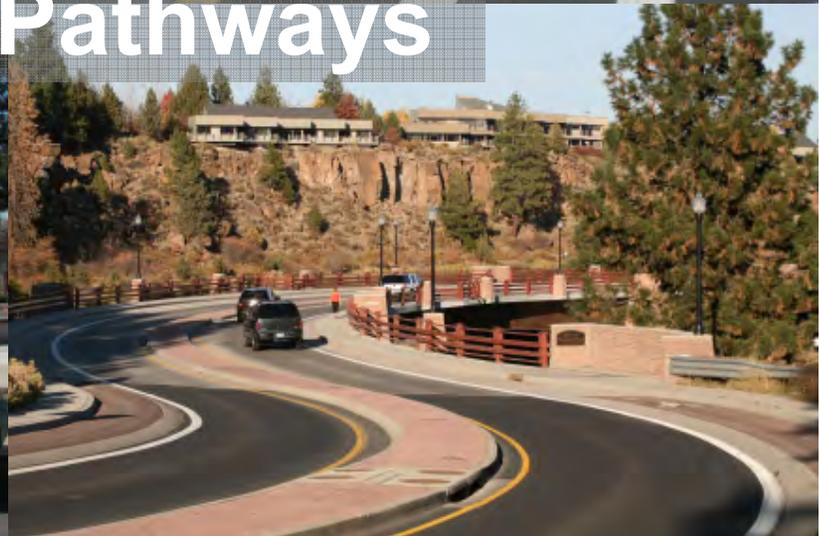


# OSU-CASCADES CAMPUS ENVIRONMENTAL OPPORTUNITIES

# OSU-CASCADES CAMPUS | CONNECTIONS + PATHWAYS

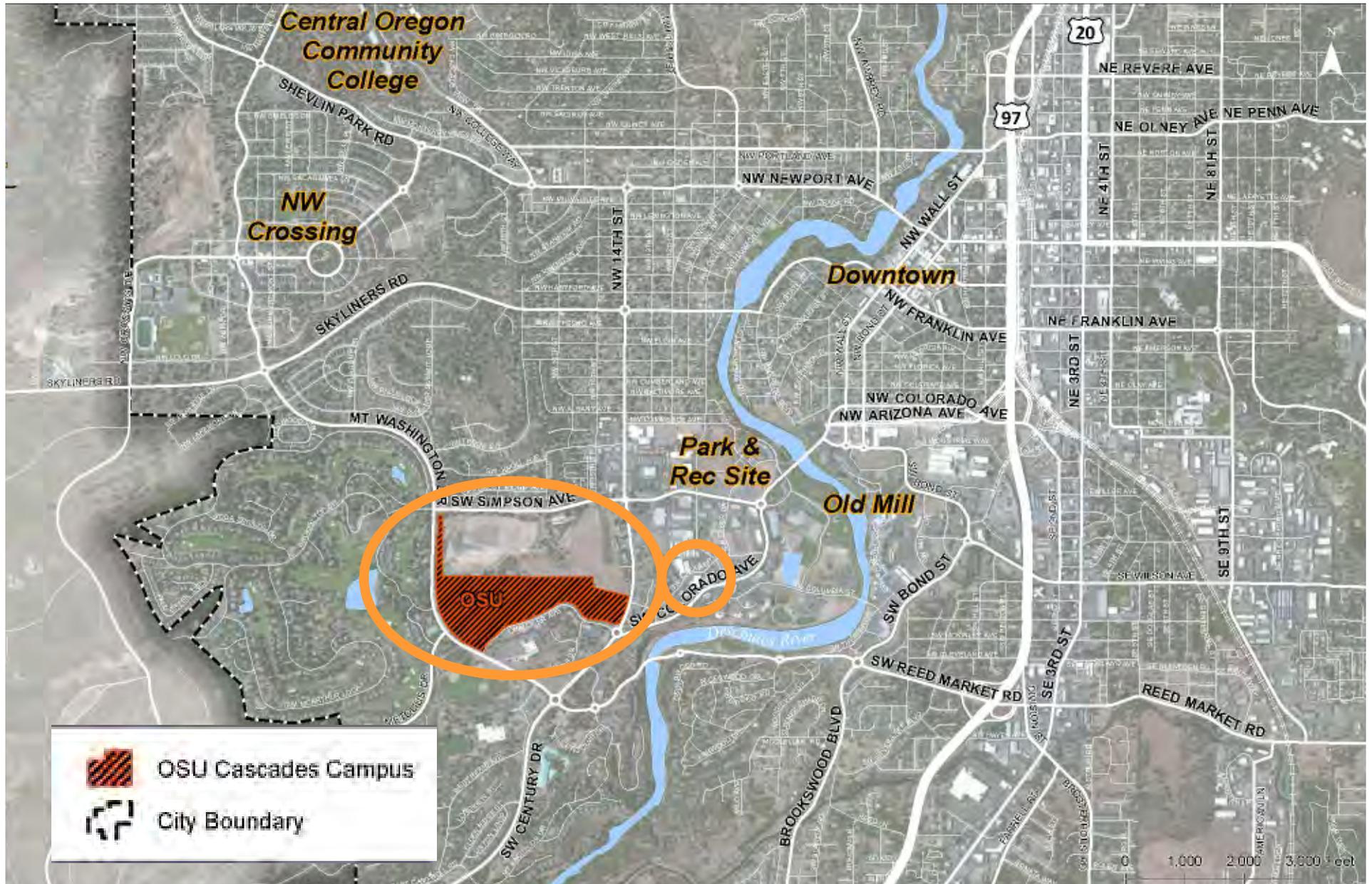


# OSU-Cascades Connections & Pathways



**KITTELSON & ASSOCIATES, INC.**  
TRANSPORTATION ENGINEERING/PLANNING

# Vicinity Map



# Strategic Benefits of Campus Setting

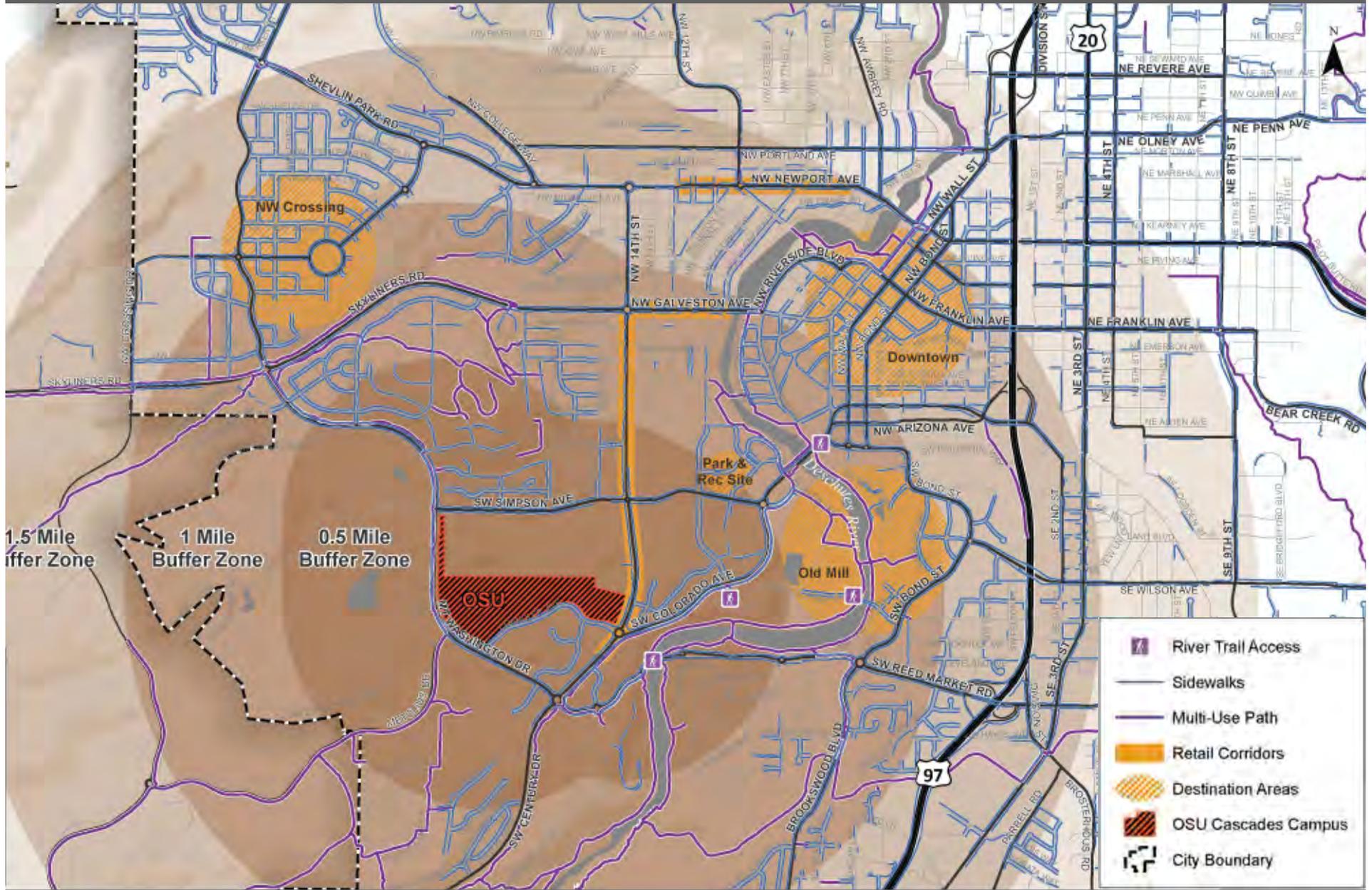
## Proximity to Existing University Facilities

- No change to current student/employee travel patterns

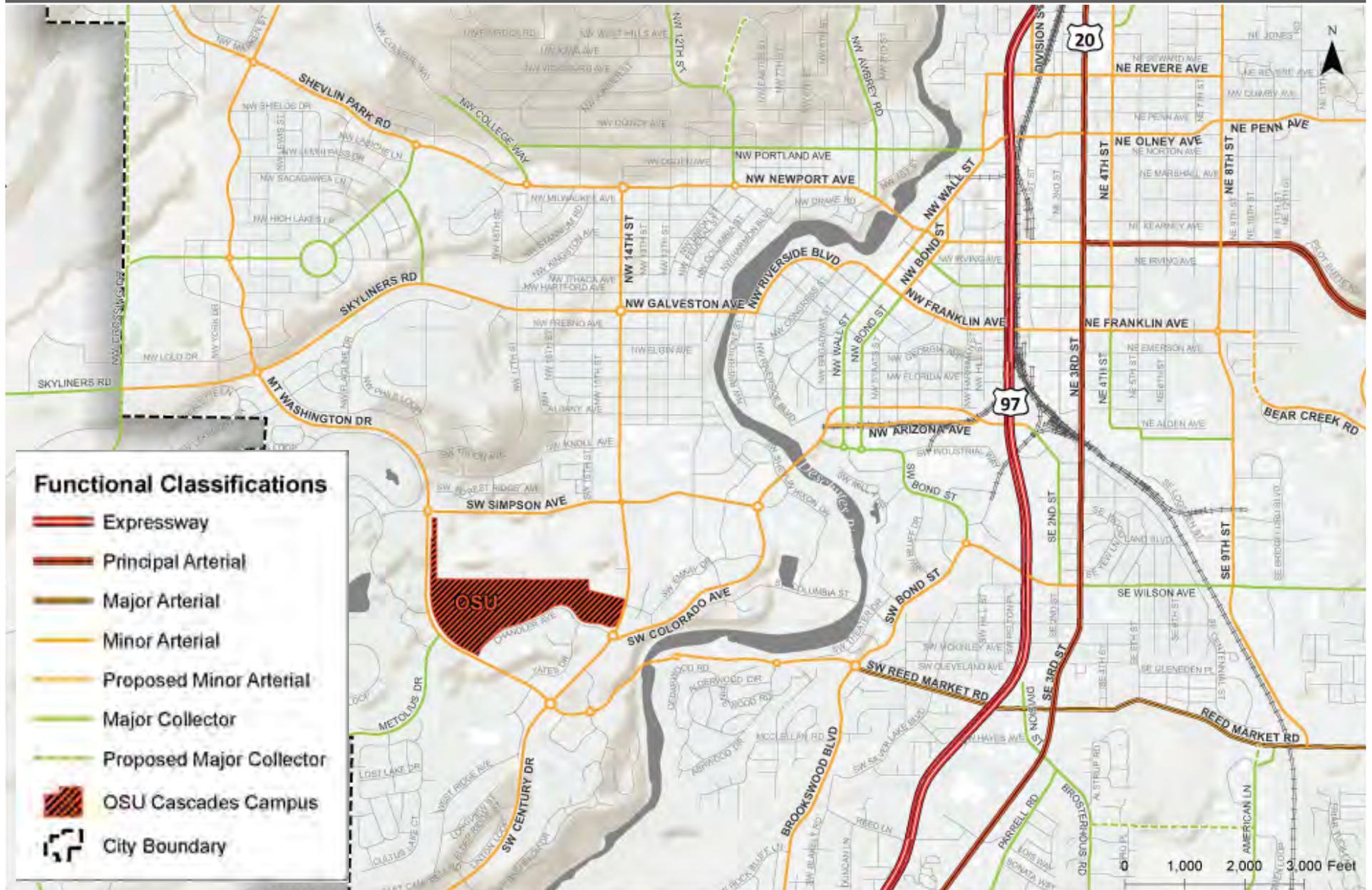
## Embedded Within the Community

- Adjacent to many supporting uses & area assets
- Connected by all modes (peds, bikes, transit, streets)

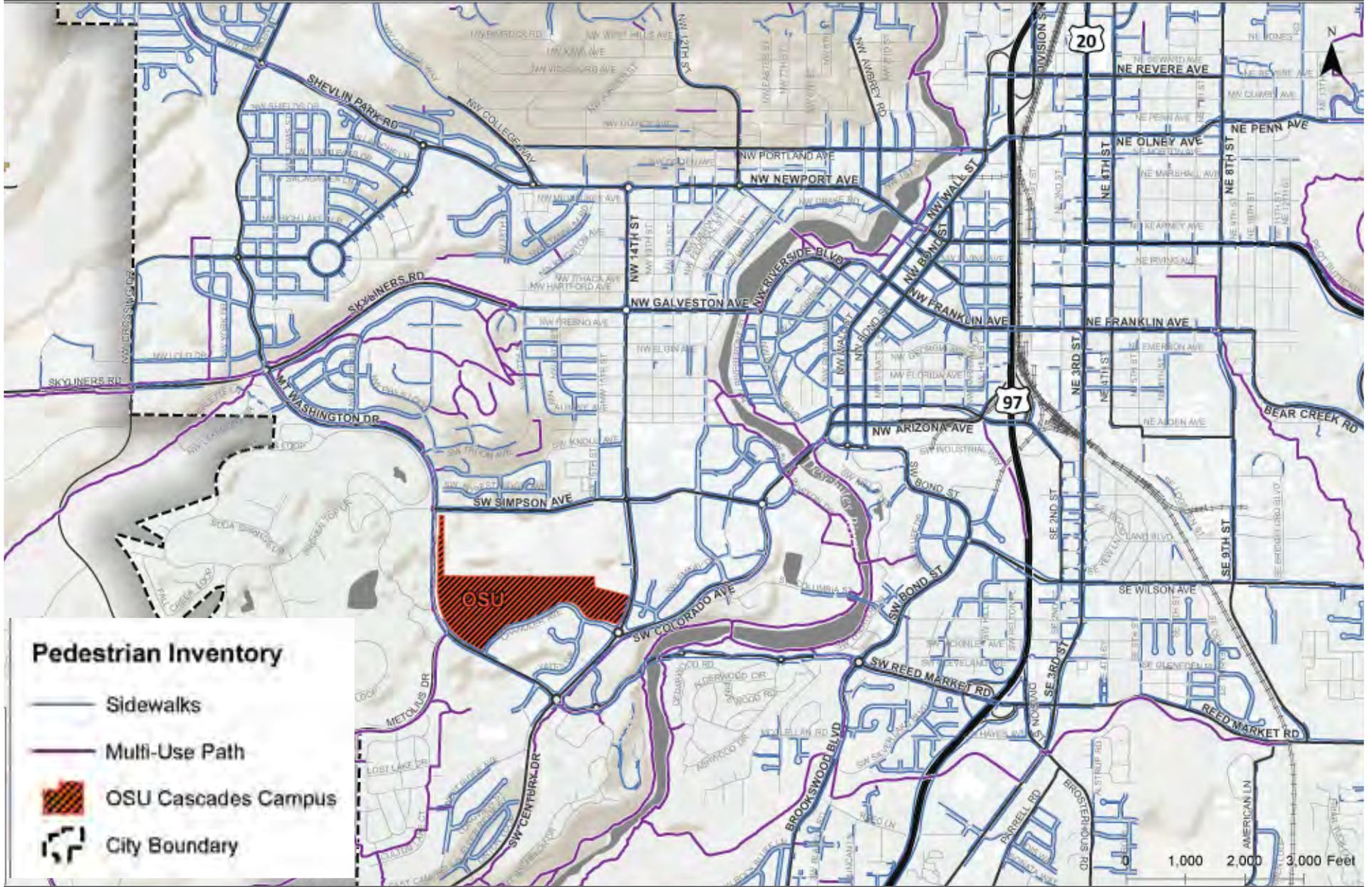
# So Much Within Reach of the Campus



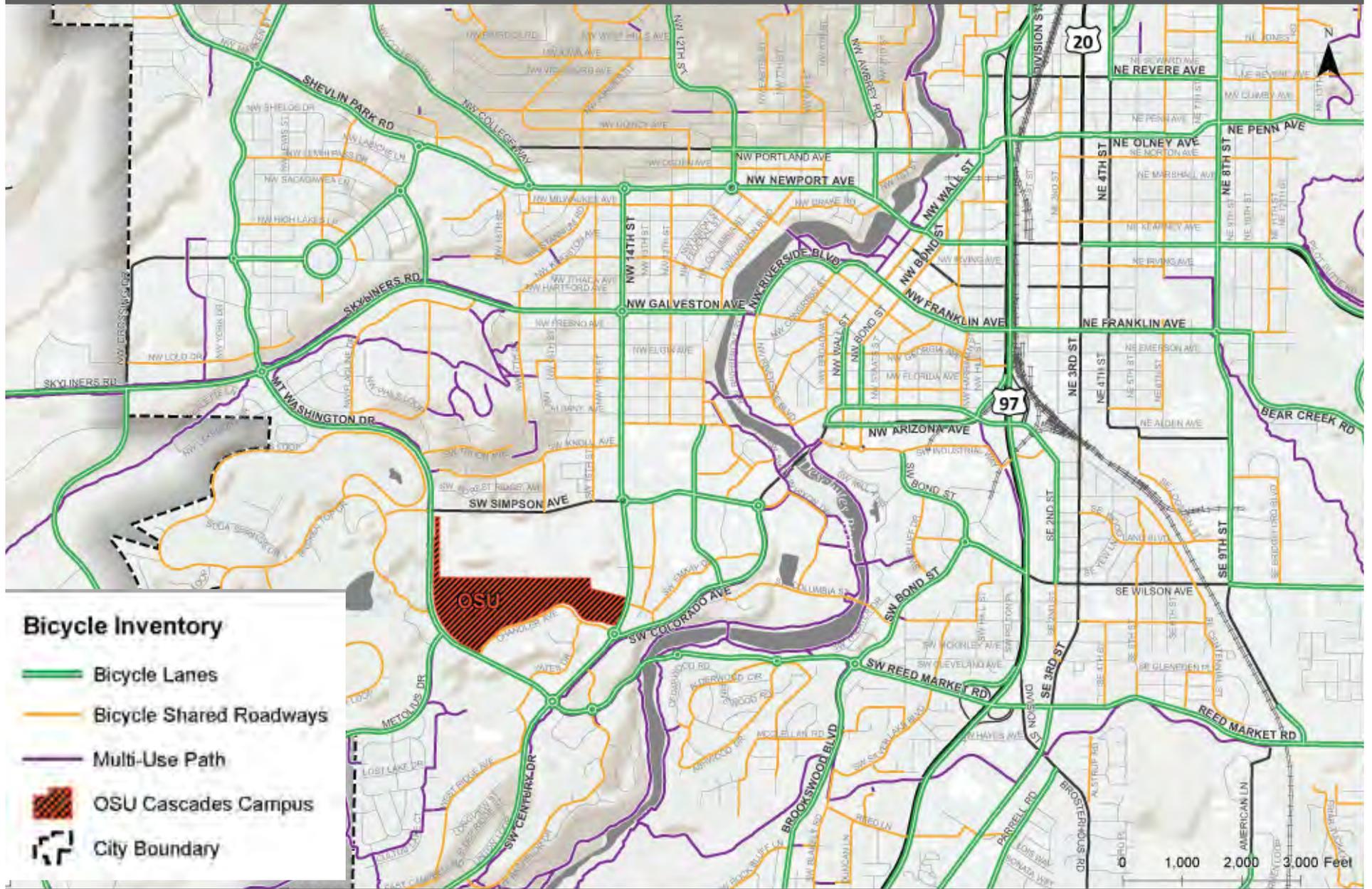
# Roadway Map



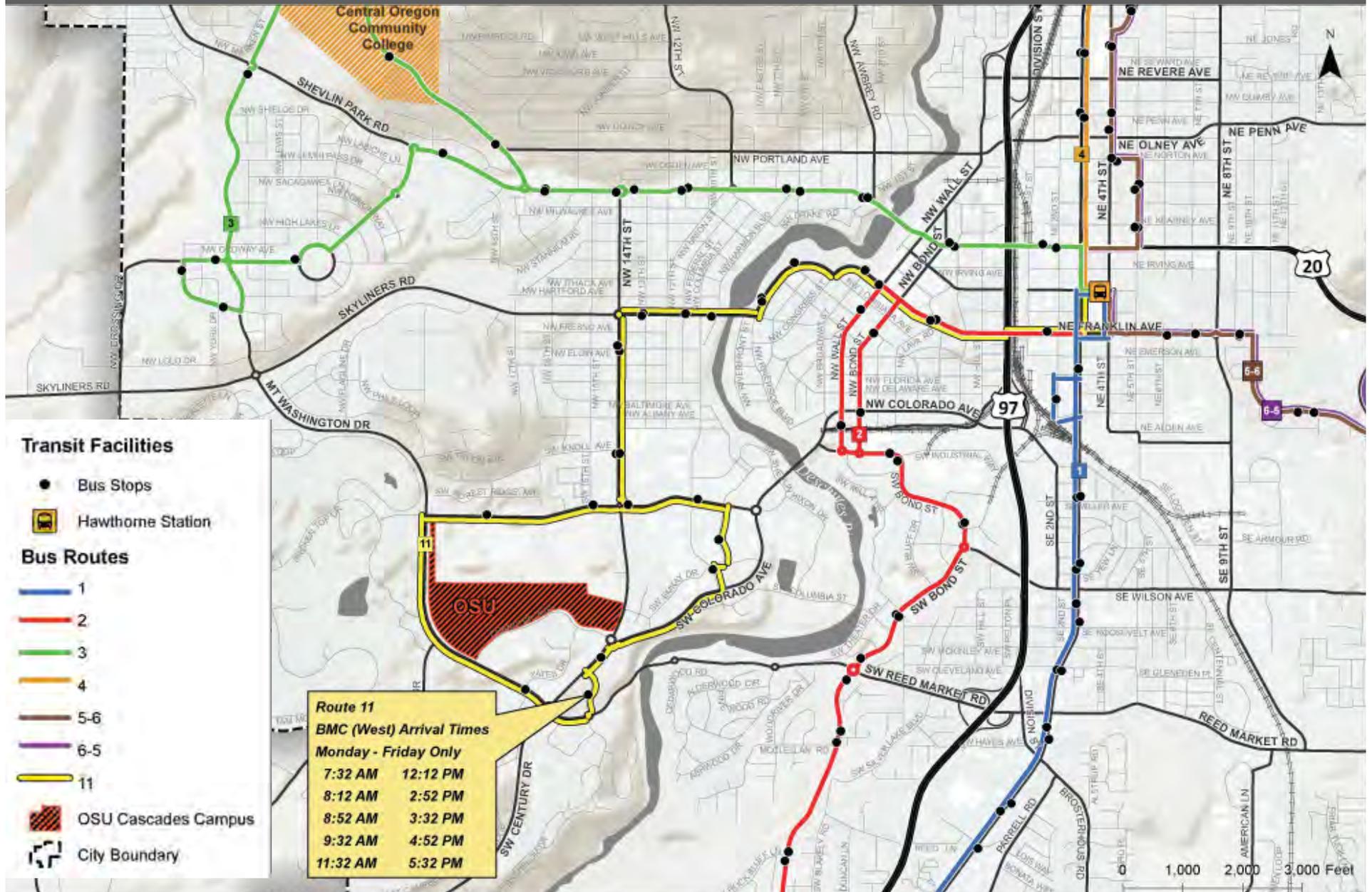
# Pedestrian Map



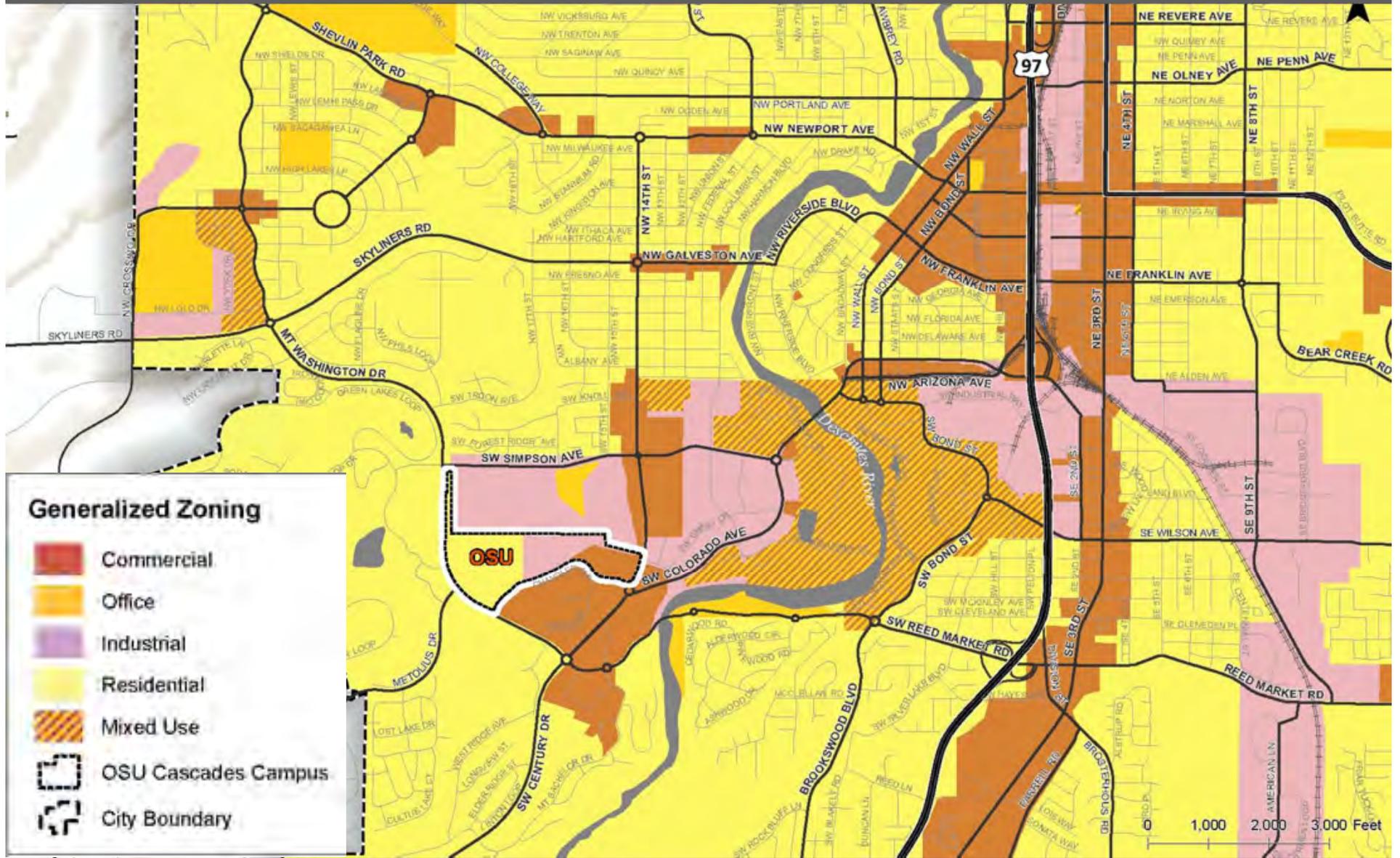
# Bicycle Map



# Transit Map



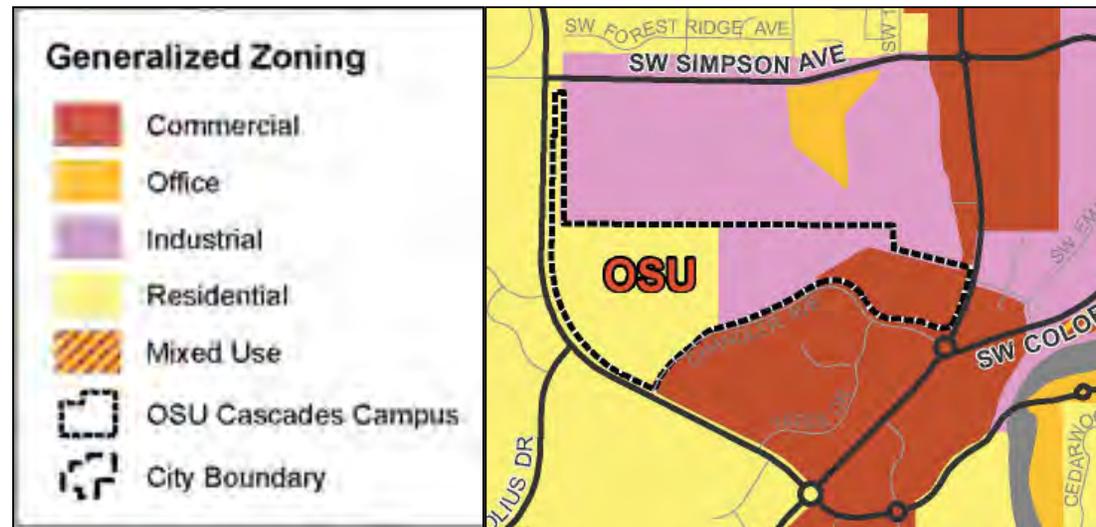
# Zoning Map



# Different Type of Development

## City Planned for Industrial Mix of Uses

- Residential, Mining, & Commercial



## University Provides a Different Mix of Uses

- Residential, Education, Commercial, & Public Use

# Tailoring the Campus to the Area

## Minimize Daily Travel Demand to Campus

- Provide on-campus housing

## Focus on Optimizing Accessibility

- Leverage walking, biking, and transit

## Promote Good Choices

- Price on-campus parking
- Provide convenient vanpool/carpool spaces
- Discourage campus residents bringing cars



# The Levers We Use

## Key Factors Influencing Access Choices

- Resident students & employees
- Proximity to housing, services, & recreation
- University policies
- Course programming & scheduling
- Availability of transportation infrastructure



# The Process

"Business As Usual Scenario"  
20 years out

Group	Sub-Group	A	Average number of days on campus	Estimated Weekday Average (persons)	Current SOV Mode Split (%)	Average number of days commuting with SOV	Number of SOVs per day	Current Carpool Mode Split (%)	Average Carpool Occupancy	Average number of days commuting SOV	Number of carpools per day	Vehicle Peak Occupancy (%)	Estimated Existing Peak Parking (vehicles)	B Flexibility to Shift Behavior (None, Low, Med, High)	7 Flexibility to Shift Behavior	8 Adjusted Peak Parking (vehicles)
University Students	Nonresident Undergraduate	25,082	4.19	21,019	16%	2.76	1,856	10%	2.34	3.15	22	95%	1,562	Low	10%	1,406
	Non-resident Graduate Student	15,008	4.19	12,577	14%	2.76	1,072	10%	2.34	3.15	135	95%	831	Low	10%	0
	Campus Resident	6,629	5.00	6,629	2.5%	2.76	1,931	10%	2.34	3.15	0	95%	87	Low	10%	78
University Employees	Staff and Administration	22,346	4.18	18,681	32%	3.55	1,111	10%	2.11	3.15	352	90%	4,406	Low	10%	3,966
	Faculty	8,081	3.66	5,915	47%	3.21	1,111	10%	2.00	3.15	165	75%	1,462	Med	20%	1,170
University	Prospective Students	40,000	1	200	20%	2.00	40	10%	2.30	3.15	43	50%	42	Low	10%	38
	Contractors	263	5	263	100%	2.00	263	10%	2.30	3.15	263	75%	197	Low	10%	177
	Vendors	218	5	218	100%	2.00	218	10%	2.30	3.15	218	50%	109	Low	10%	98
Medical	Medical Staff	4800	4.5	4,320	32%	3.55	960	10%	2.11	3.15	205	70%	830	Low	10%	747
	Visitors to inpatients	1,200	1	1,200	10%	2.00	600	50%	2.10	3.15	286	33%	292	None	0%	292
	Outpatient	115	1	115	10%	2.00	880	5%	2.10	3.15	26	50%	453	None	0%	453
	Roosevelt Clinics	115	5	115	10%	2.00	520	5%	2.10	3.15	15	50%	268	None	0%	268
	Visitors to other	115	5	115	10%	2.00	350	50%	2.10	3.15	167	40%	207	None	0%	207
	Trainees (inc med students etc.)	115	5	115	25%	3.55	104	5%	2.10	3.15	14	70%	82	Low	10%	74
	Physicians	425	4	425	70%	3.55	189	15%	2.00	3.15	29	70%	152	None	0%	152
	Inpatient	425	5	425	80%	3.55	189	5%	2.10	3.15	10	20%	2	None	0%	2
	Children's Hospital	150	5	150	80%	3.55	150	5%	2.10	3.15	10	90%	135	None	0%	135
Administrative Vehicles												653				
												Total:	11,770		Total:	9,263

Information from UW (2010 Upass survey Report)  
Kittelson Estimates  
Calculations

UTILIZATION	
Total On-Campus Parking Inventory	14,249
Average Occupancy	83%

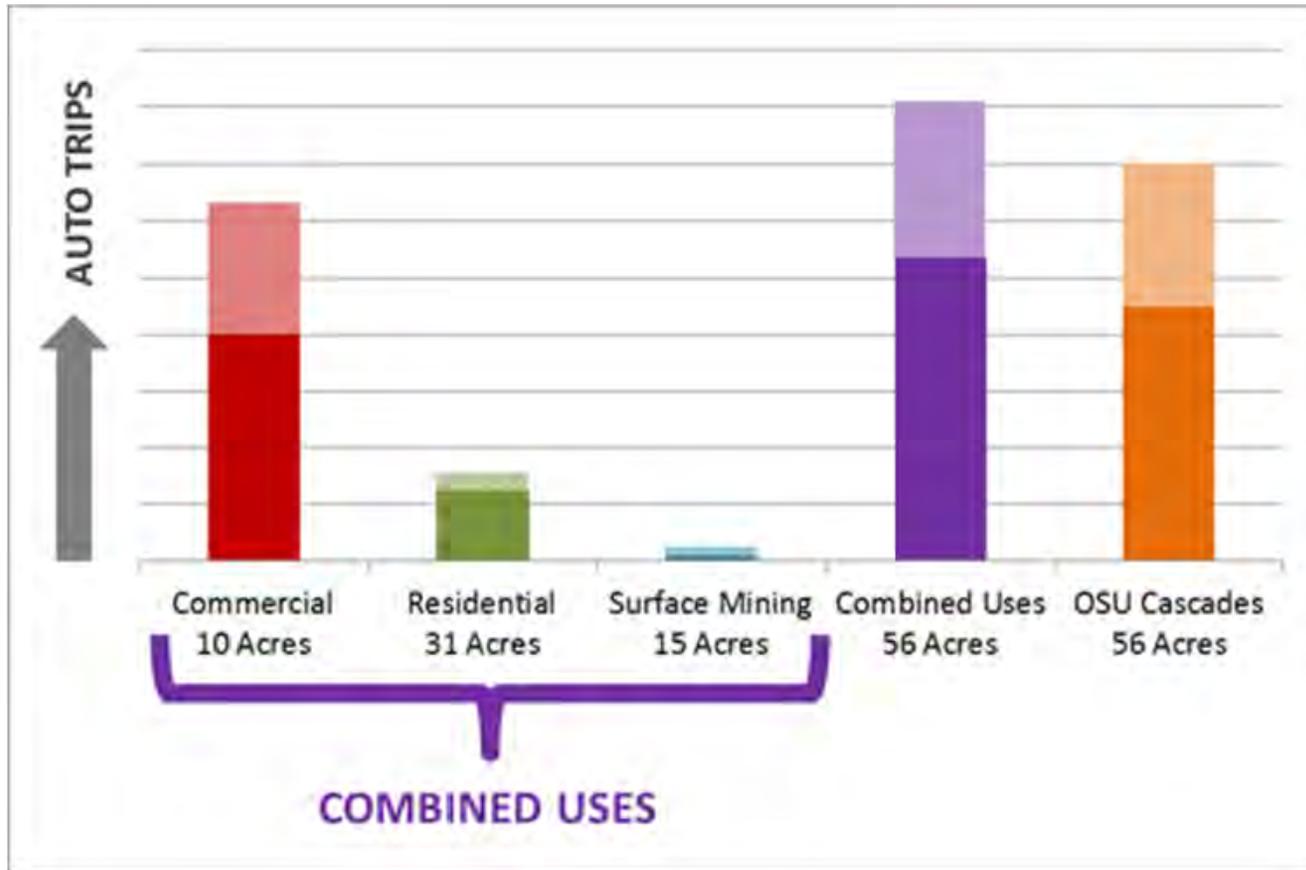
12,824

FLEXIBILITY RATING
None 0%
Low 10%
Med 20%
High 40%

**Changes**

- Increase in graduate student population by 2% per year for 20 years
- Increase in staff population based on ITE trip generation estimates based on increased square footage
- Increase in prospective student visits by 1000 per year
- Increase in contractors and vendors by 150%
- Increase to Medical population by amount provided in homework response
- Increase in non-resident undergraduate SOV mode split to reflect more students living at home (i.e. longer commutes)

# Similar Types of Travel Demands



Similar amounts of auto demand,  
but at different times

# Scenario Development

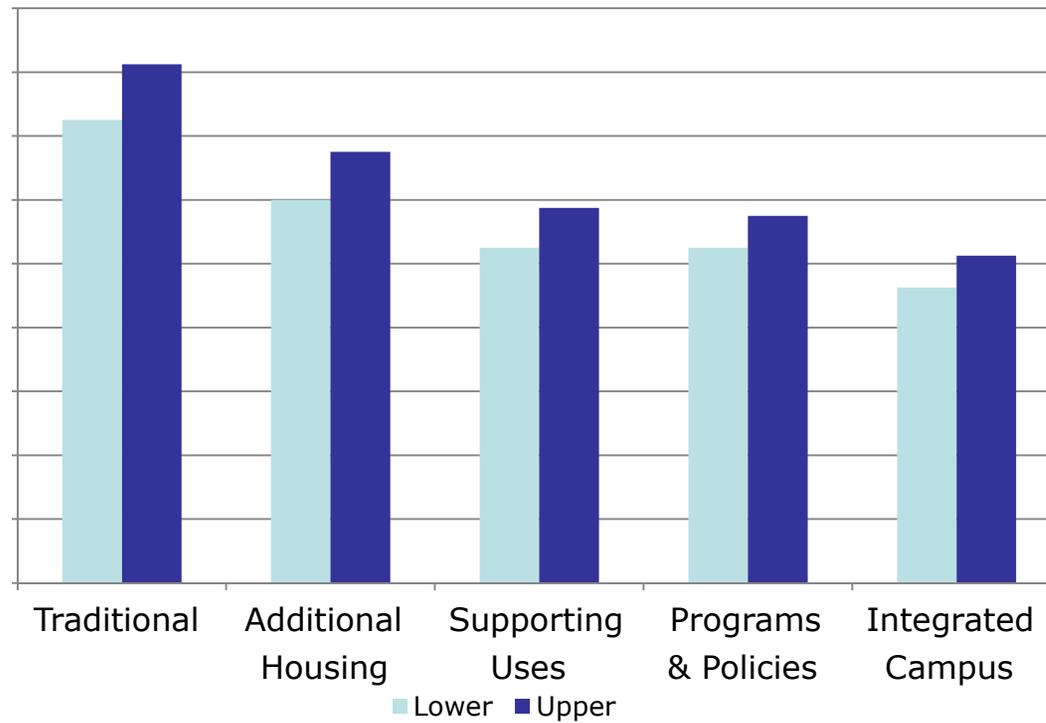
## Example Scenarios

1. Traditional Approach (Suburban Campus)
2. Increased Campus Housing
3. Supporting Land Uses and Services
4. University Program and Policy Adaptations
5. An Integrated Campus



# Lessons Learned

Potential Demands to Campus



Several levers, working together, reduce demands

# Key Findings

- Set mode split goals & support with key policies
- Locate housing near retail uses & transit line
- Promote improvements to ped/bike infrastructure
- Promote improved transit service & route structure
- Establish strong parking policies (including pricing)
- Provide TDM & parking management to achieve mode split goals

