We acknowledge with respect the Lekwungen peoples on whose traditional territory the university stands and the Songhees, Esquimalt and WSÁNEĆ peoples whose historical relationships with the land continue to this day.

WELCOME!

THIS IS THE SECOND OPEN HOUSE FOR THE ENGINEERING PRECINCT EXPANSION!

TODAY WE ARE SEEKING YOUR INPUT ON BUILDING DESIGN CONCEPTS THROUGH ONLINE SURVEY QUESTIONS.

WHY IS THE PRECINCT EXPANDING?

UVic's engineering precinct includes the Engineering Office Wing, Engineering Lab Wing and Engineering Computer Science building. Existing space limitations have resulted in the faculty creating temporary lab spaces in buildings, trailers and Sea-Can containers across campus.

The project will create necessary space for students, faculty and staff, enhancing the extraordinary academic environment.

WHAT'S INCLUDED IN THE EXPANSION?

The project includes the 6-storey addition to the ECS building and a new High Bay Research and Structures lab.

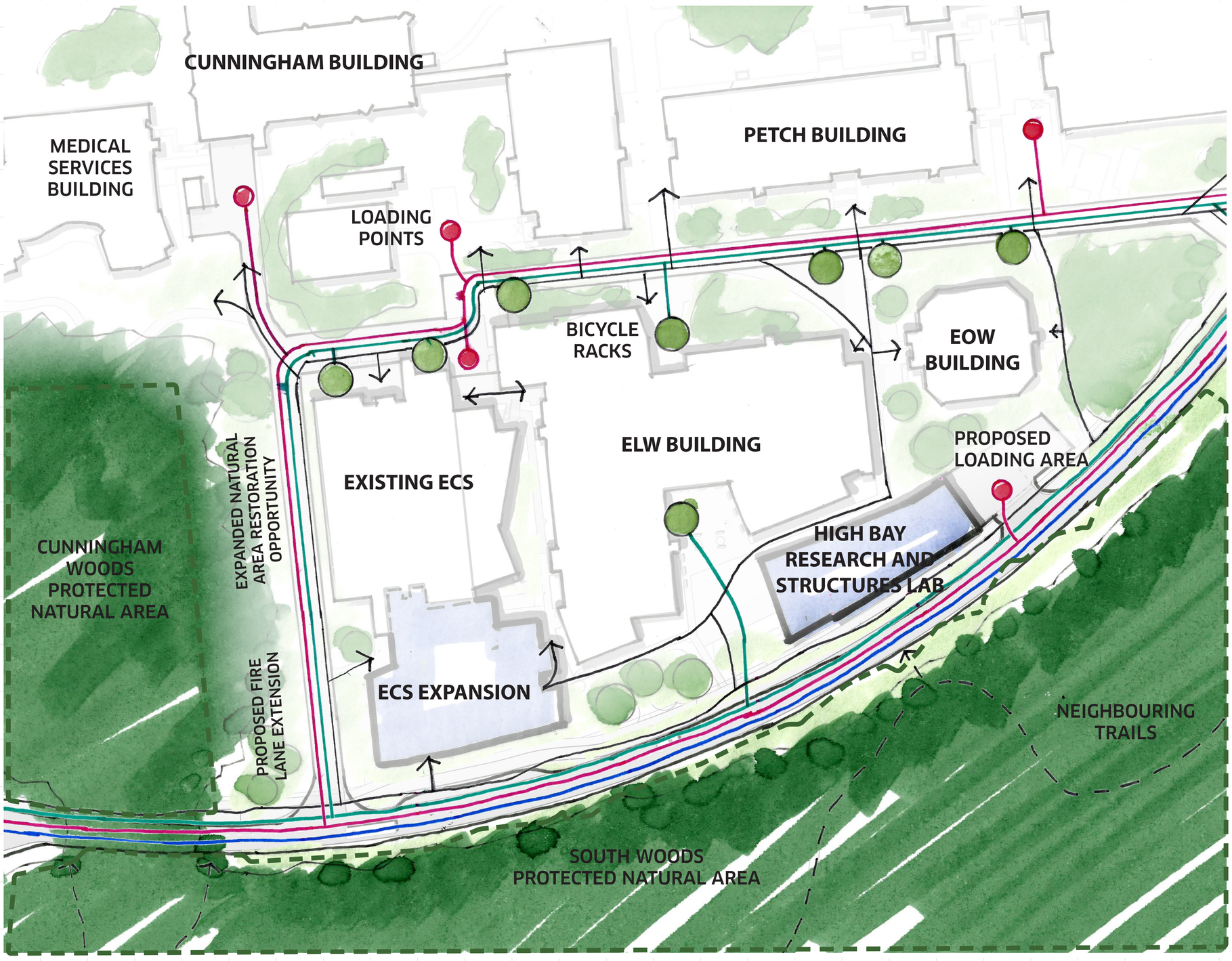
The facilities will balance the need for flexibility and purpose-built spaces required by researchers. The buildings will be designed with some generic space modules that can be used by a variety of researchers while also providing purpose-built lab space with specialized equipment and infrastructure.

THE PROJECT WILL:

- Provide additional design studios, laboratory, office and research facilities including a laboratory space for the testing of steel and concrete structures.
- Support the faculty's vision to construct facilities at the forefront of new green building design
- Consolidate temporary facilities into new purpose-built facilities
- Continue to provide a dynamic learning environment
- Facilitate greater student and faculty interactions and support interdisciplinary activities

WHAT'S INCLUDED

WHERE THE PROJECT WILL BE LOCATED



WHAT'S INCLUDED

ECS EXPANSION

UNDERGRADUATE DESIGN STUDIO

GRADUATE STUDENT WORKSTATIONS

ENVIRONMENTAL AND HYDRAULICS LABS

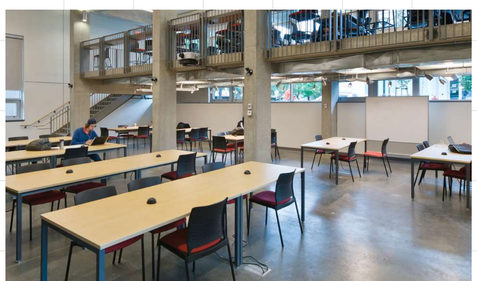
BUILDING SCIENCE LABS

COMPUTATIONAL RESEARCH LABS

MATERIALS LAB

GEOTECHNICAL LABS

BIOMEDICAL ENGINEERING LABS



ACTIVE LEARNING LABS

COMPUTER LABS

FACULTY COLLABORATION SPACE

CIVIL ENGINEERING DEPARTMENT OFFICE SPACE

HIGH BAY RESEARCH AND STRUCTURES LAB

WOOD SHOP

MACHINE SHOP

WELDING BAY

SHAKE TABLE

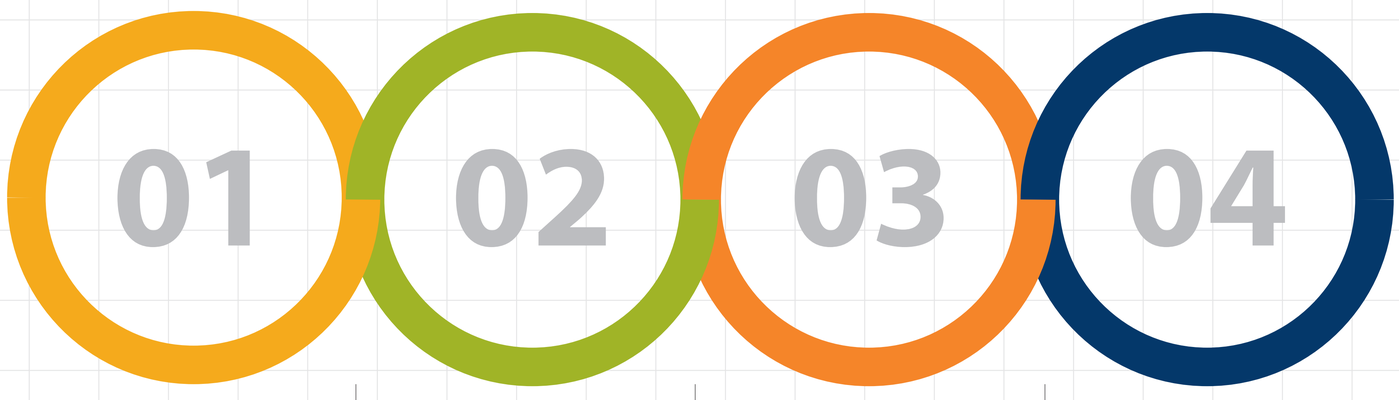
ABOUT THE PROCESS

ENGAGEMENT

The engagement process follows the university's **Community Engagement Framework** as well as the engagement direction set by the **Campus Plan**, both developed through extensive engagement with students, faculty, staff and neighbouring residents.

CAMPUS PLAN

COMMUNITY ENGAGEMENT FRAMEWORK



THE PROCESS

We are at the early stages of the design process. Design will continue throughout 2020, with opportunities for feedback occurring through the year.

GET INVOLVED!

We want to hear from students, faculty, community members and stakeholders to help shape the plans for the engineering precinct expansion.

STAKEHOLDER WORKSHOPS

ONGOING

STUDENT RESEARCH

ONGOING

OPEN HOUSES

FEBRUARY
MARCH
FALL 2020

APPROVALS

ONGOING

Development Approvals from District of Oak Bay

MEETINGS

ONGOING

CALC, UVic Leadership and the District of Oak Bay

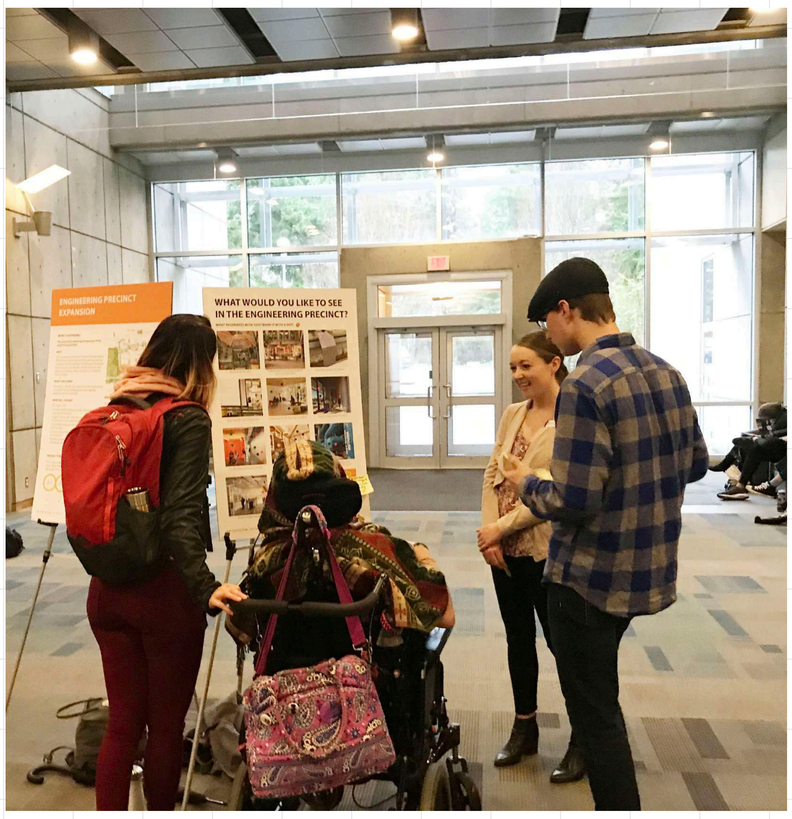
FIND OUT MORE!

uvic.ca/engineeringexpansion

WHAT WE'VE HEARD FROM YOU SO FAR

300+ ENGAGED!

Over 300 people participated in our engagement events whether through the pop-up displays, first open house, student research, community presentations or stakeholder workshops.



ECS POP-UP

ECS OPEN HOUSE 1

MCPHERSON LIBRARY OPEN HOUSE 1

YOUR PRIORITIES

- **WELLNESS**
- **END-OF-TRIP FACILITIES**
- **COLLABORATION SPACES**
- **OUTDOOR SEATING AREAS**
- **SUSTAINABILITY**

ADDRESSING YOUR CONCERNS ABOUT CLUB SPACE

"Spaces for group work: **more club space**, *technical work areas, especially more space for machine shop"*

The project funding model does not support new designated club spaces; however, the architectural team is working to maximize opportunities for social spaces and informal group work areas within building common areas and atrium spaces.

CHECK OUT THE ENGAGEMENT SUMMARY!

uvic.ca/engineeringexpansion

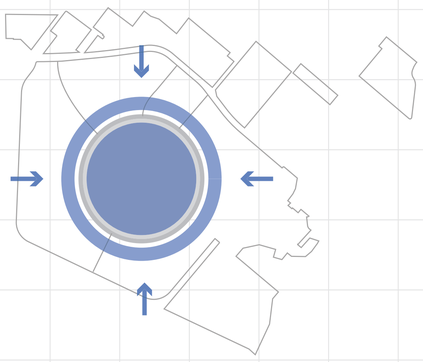
BRINGING THE CAMPUS PLAN TO LIFE

SPIRIT OF PLACE

The project will recognize Spirit of Place through incorporating environmental strategies, featuring local solutions and partnerships and demonstrating the use of local innovative wood-based solutions.

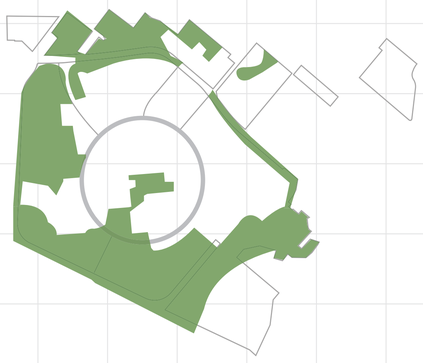
THE CAMPUS PLAN BIG MOVES

The Campus Plan Big Moves are design strategies that bring the university's vision, goals and principles to life. This project supports:



COMPACT CAMPUS

- Focus new development within and near Ring Road to promote synergies between the expansion and existing buildings

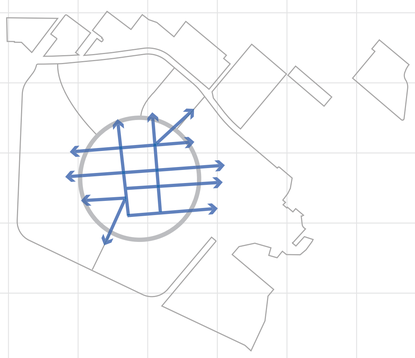


CONNECTING TO NATURE

- Conserve and enhance natural areas to minimize impacts from building developments

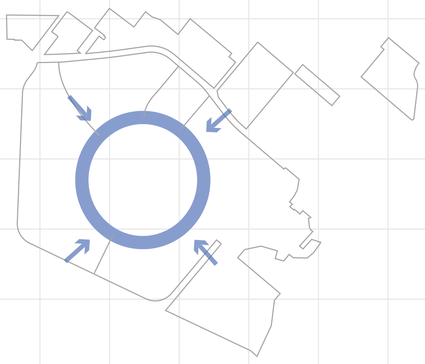
CENTRES OF ANIMATION

- Create new activity hubs to support diverse activities and animate building frontages



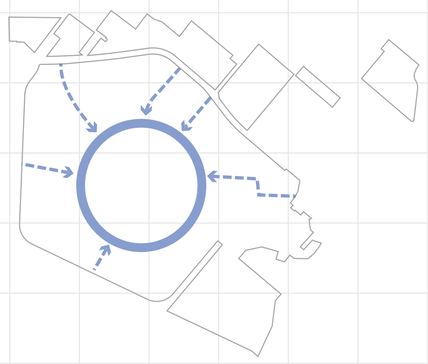
A RENEWED COMMITMENT TO WALKABILITY

- Make campus an even better campus for walking
- Link proposed walkways with existing pedestrian network and activity hubs



RING ROAD AS A PEOPLE PLACE

- Make Ring Road an animated place for walking, cycling, socializing and more
- Orient buildings' active spaces and entrances to Ring Road



ENHANCE CYCLING AND TRANSIT

- Make cycling and transit use enjoyable by enhancing safety and convenience
- Prioritize active modes of transportation

CAMPUS CYCLING PLAN, 2019

The expansion will support improvements to the campus' cycling network including allowing for the 3.0 m separated bi-directional cycling path along Ring Road and providing safe and secure end-of-trip facilities.

PROJECT APPROACH

PROJECT VISION

A project vision is a tool for values-based decisions throughout the design process. The project vision is that:

The Engineering Precinct Expansion will be a beacon of innovation, collaboration and learning for an adaptive and sustainable future.

VISION

↓

PRINCIPLES

↓

OBJECTIVES

↓

TARGETS

SITE-WIDE PRINCIPLES

Orient primary frontages along Ring Road to create an engaged pedestrian realm

Visually unite the precinct with signage, landscape features and plantings

Create visual interest to evoke a sense of arrival to the engineering precinct

Design new paths to enhance and connect pedestrian and cycling routes

Maximize potential to restore natural landscapes with Indigenous plantings

Replace each tree removed with three new trees on campus

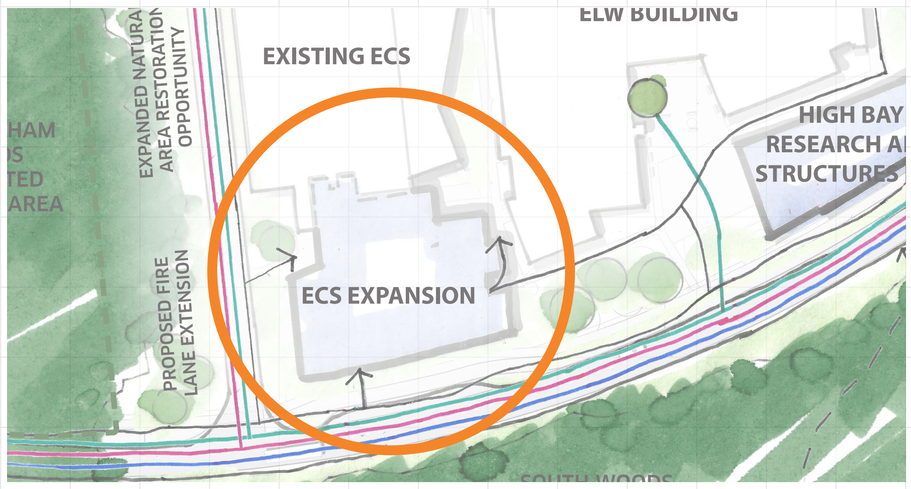
Setback the buildings from Ring Road to implement the Campus Cycling Plan's pathway improvements

INDIGENOUS DESIGN

The project will recognize Spirit of Place through the approach to public art and landscape design.

Respect of the natural environment is a fundamental value of Indigenous cultures throughout Canada. This project seeks to incorporate Indigenous values through the approach to landscape design. Further opportunities include incorporating Indigenous art and interpretive signage.

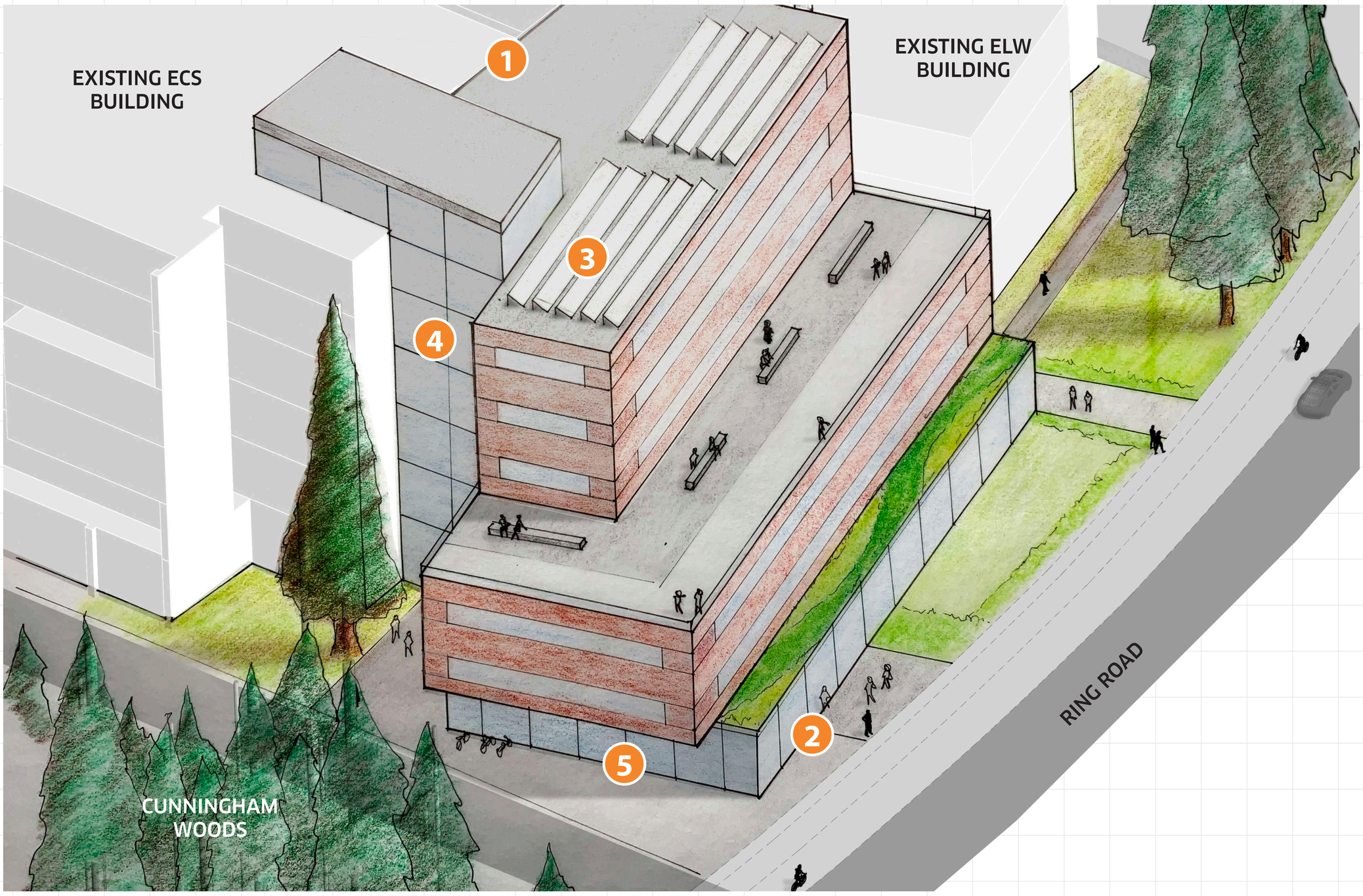
ARCHITECTURAL DESIGN



ECS EXPANSION DESIGN

The ECS Expansion architectural design concept interconnects at all floors with the existing ECS building as well as with the existing Engineering Lab Wing building.

ARCHITECTURAL DESIGN HIGHLIGHTS



1 RELATES TO CAMPUS CONTEXT

The design relates in height and orientation to the ECS and ELW buildings.

2 REMAINING "HUMAN -SCALE"

Because the building roofs are terraced, the building feels "human-scale" along Ring Road.

3 ACTIVE ROOFS

The "stepped" roofs give the possibility for green roofs, accessible patios and photovoltaics.

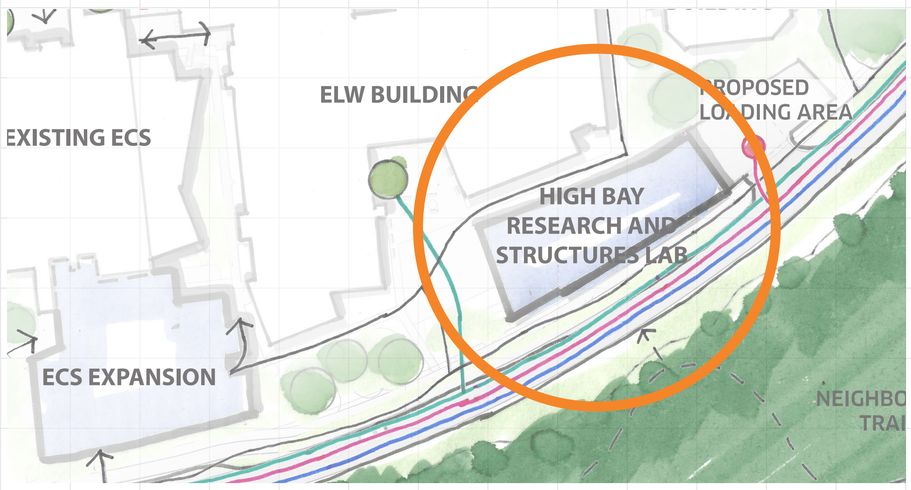
4 IMPROVING THE EXISTING ECS

Enhances the existing ECS atrium by extending it into the new expansion, bringing in light through the roof and becoming the hub of social spaces for both existing and the new ECS.

5 GROUND LEVEL ACTIVATION

The massing follows the program requirements of having larger lab spaces near the ground floor, and smaller upper floors for research and office spaces.

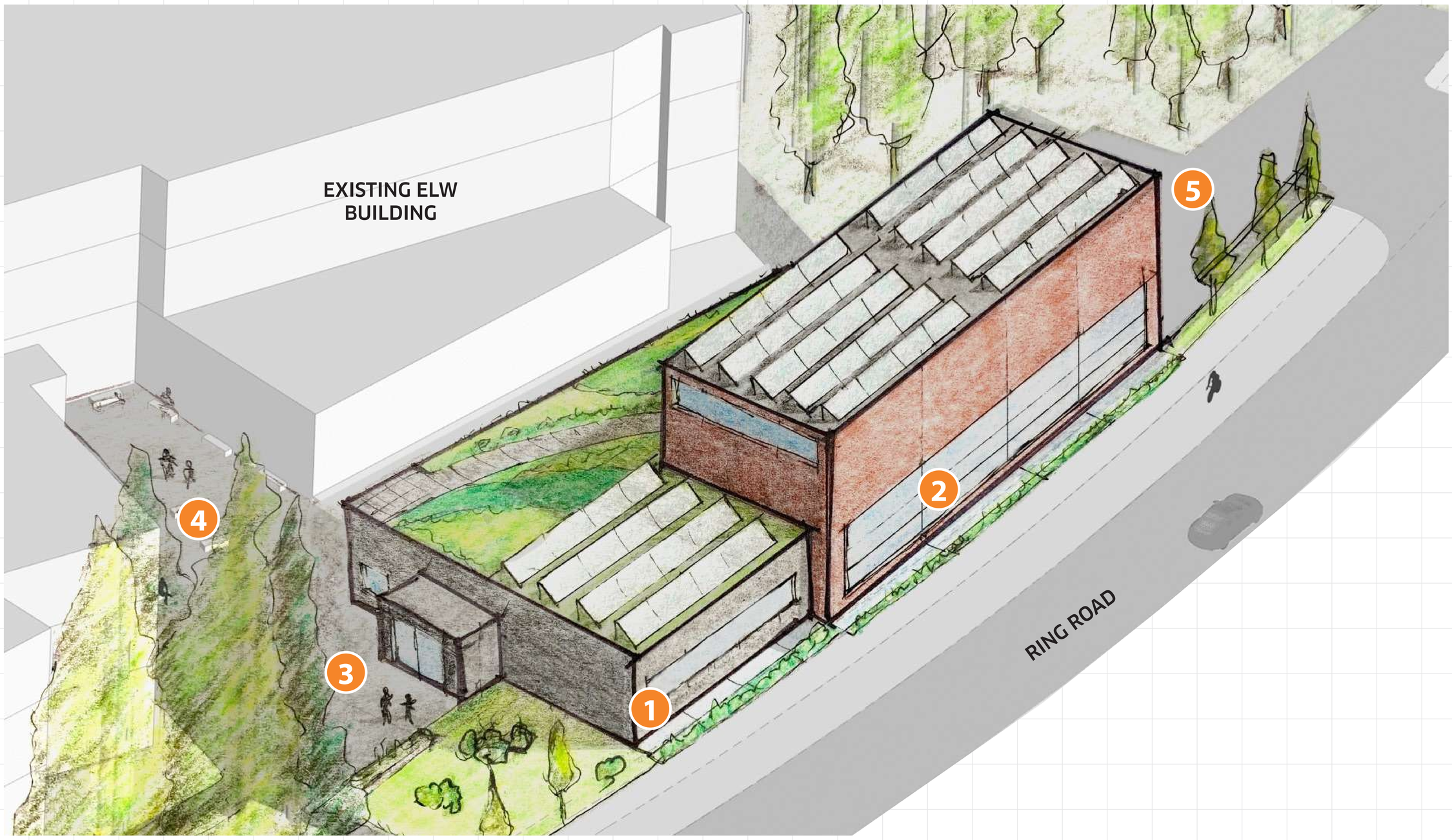
ARCHITECTURAL DESIGN



HIGH BAY LAB DESIGN

The design concept has a full basement and full ground level. The areas that are not part of the required 12 meter clearance High Bay program, are lowered to create a separate roof.

ARCHITECTURAL DESIGN HIGHLIGHTS



1 "HUMAN-SCALE" DESIGN

The building fronts Ring Road at a "human-scale".

2 HIGHLIGHTING ENGINEERING PROGRAMS

Large windows provide opportunities for passersby to see structural research activities taking place in the lab.

3 OUTDOOR SOCIAL SPACES

There is potential for an accessible roof deck and improvements to the ELW entry plaza.

4 RELATING TO CAMPUS CONTEXT

The new building frames the ELW entry plaza to support its animation and creates intuitive navigation from the ELW and ECS buildings.

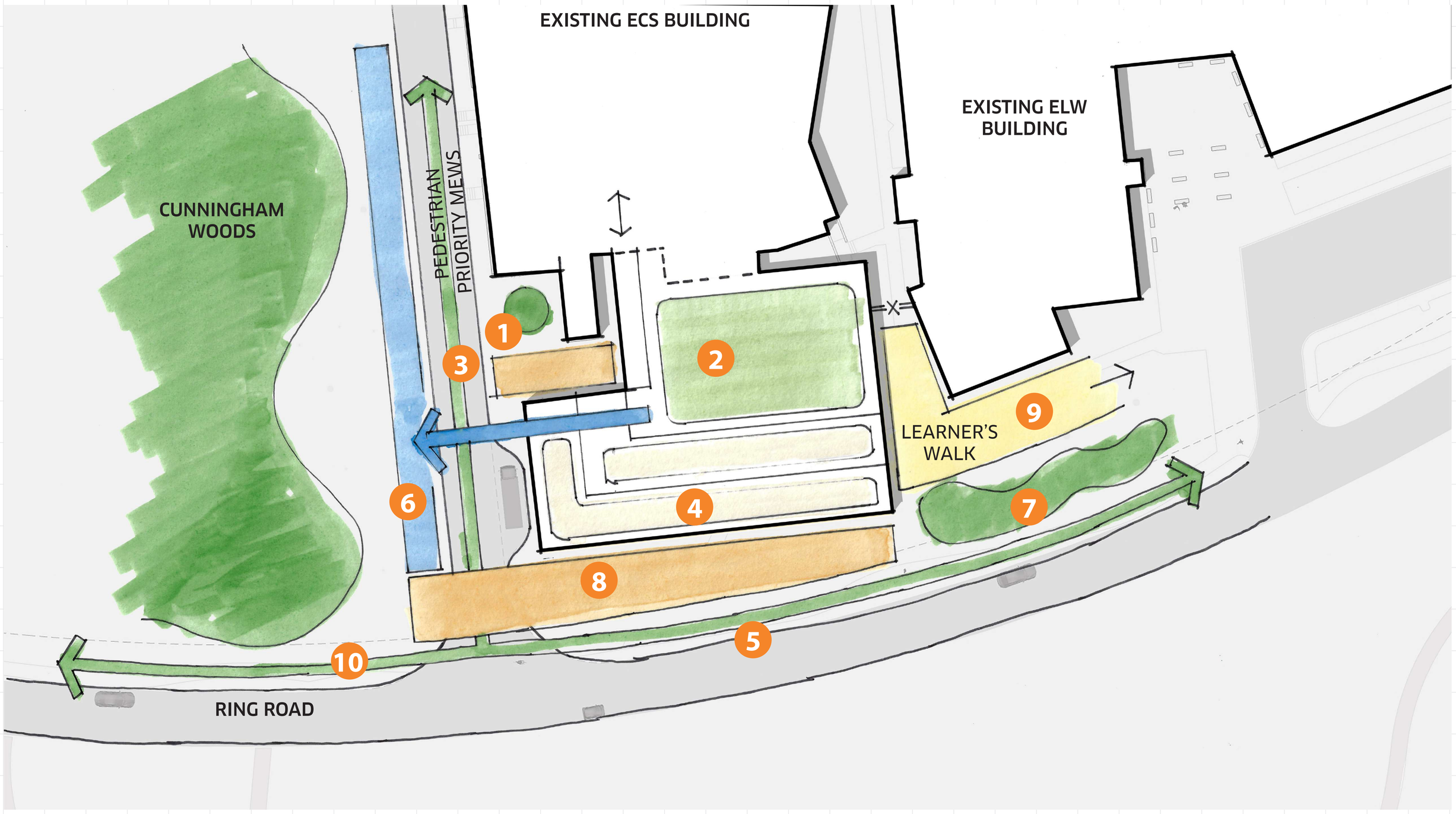
5 LOADING AND STORAGE

Locates loading and storage to the East side of the building, which directly serves the main High Bay lab area through an overhead door.

LANDSCAPE DESIGN

LANDSCAPE DESIGN HIGHLIGHTS: ECS EXPANSION

The terraced form of the building creates multiple rooftop zones for sustainability features like stormwater capture and green roofs, and rooftop patios. On the ground level, the design is focused on upgrading the existing streetscape and firelane, and the addition of new social plazas. There is potential to connect to the ELW with a feature called "learner's walk" where experiential learning opportunities are connected to the landscape.

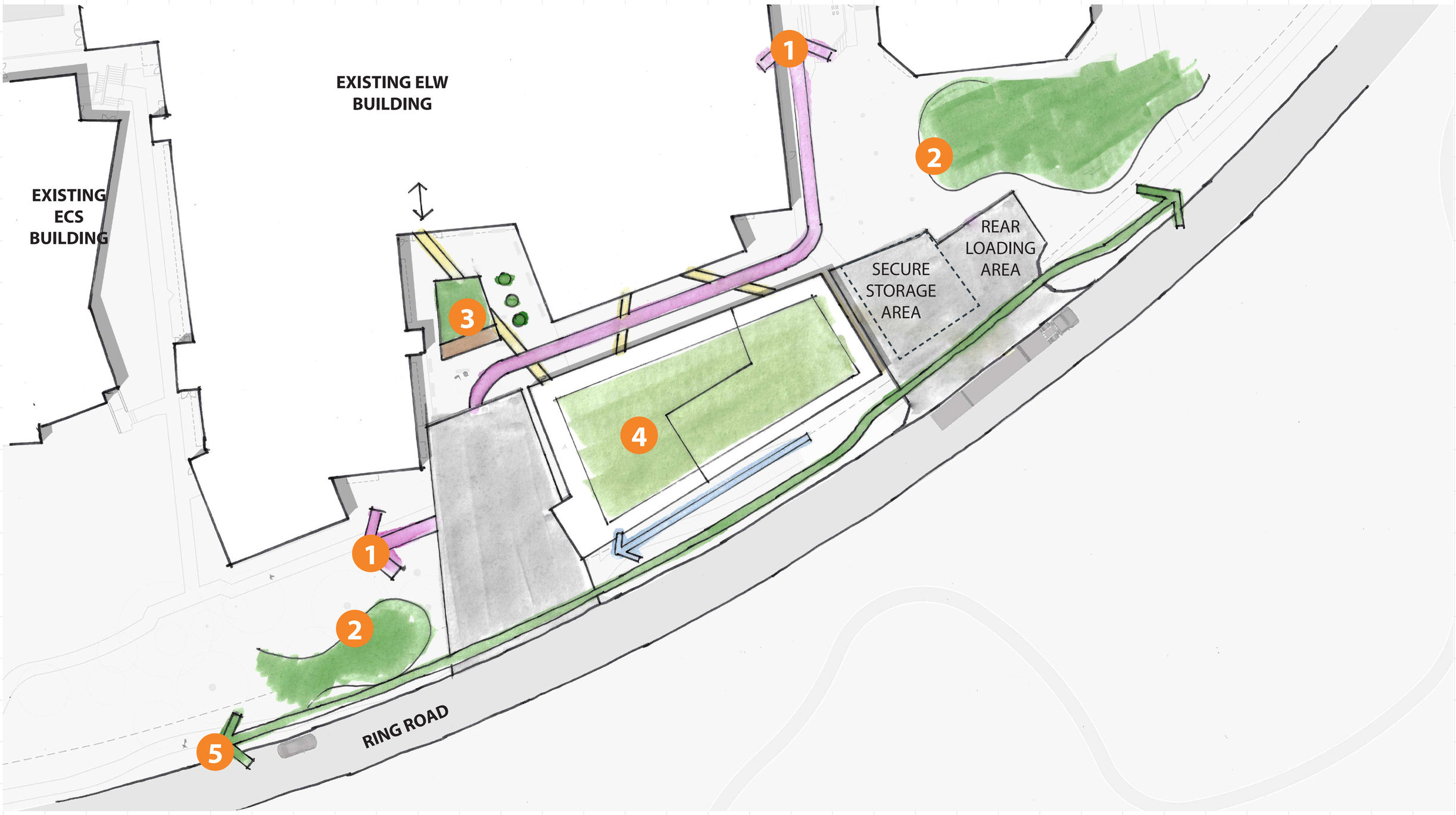


1. EXISTING SEQUOIA TREE
2. OPPORTUNITY FOR GREEN ROOF OR PHOTOVOLTAICS
3. PEDESTRIAN CONNECTIONS
4. ROOFTOP ACCESSIBLE PATIO SPACES
5. SHORT TERM PARKING
6. STORMWATER FEATURE FED BY ROOFTOP RUN-OFF
7. RETAINED TREES
8. NEW OUTDOOR SEATING AND PLAZA SPACE
9. "LEARNER'S WALK" - A PEDESTRIAN ROUTE WITH INTEPRETIVE SIGNAGE
10. IMPROVED PEDESTRIAN AND CYCLING PATHWAYS

LANDSCAPE DESIGN

LANDSCAPE DESIGN HIGHLIGHTS: HIGH BAY LAB

The High Bay Research and Structures Lab landscape design will focus on creating a more 'light-industrial' character, complementing the indoor research spaces.

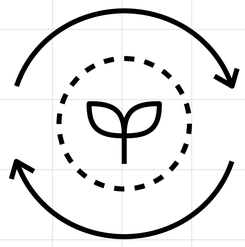


1. **PEDESTRIAN CONNECTIONS**
2. **RETAINED TREES**
3. **NEW PLANTINGS AND OUTDOOR SEATING**
4. **DEMONSTRATION AND LABORATORY GREEN ROOF**
5. **IMPROVED PEDESTRIAN AND CYCLING PATHWAYS**

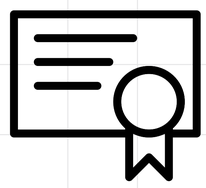
SUSTAINABILITY

SUSTAINABILITY APPROACH

The project is informed by the university's Sustainability Action Plan and best practices for environmental stewardship and management. In addition, student research is currently underway to inform the sustainability features of the buildings. While specific strategies have not yet been confirmed, each design option will explore the following approaches:



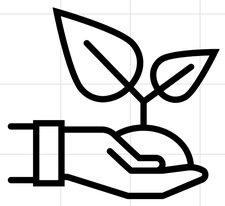
Regenerative Design



LEED Gold V4 Buildings

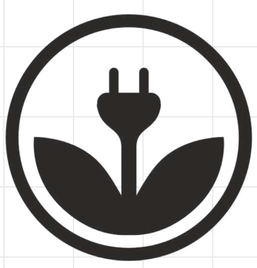
Active Transportation

Stormwater Management

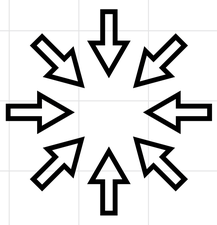


Restoration of Natural Ecosystems

Mass Timber Construction



Energy Efficiency



Compact Growth

Bird Friendly Design

RESTORATIVE LANDSCAPES

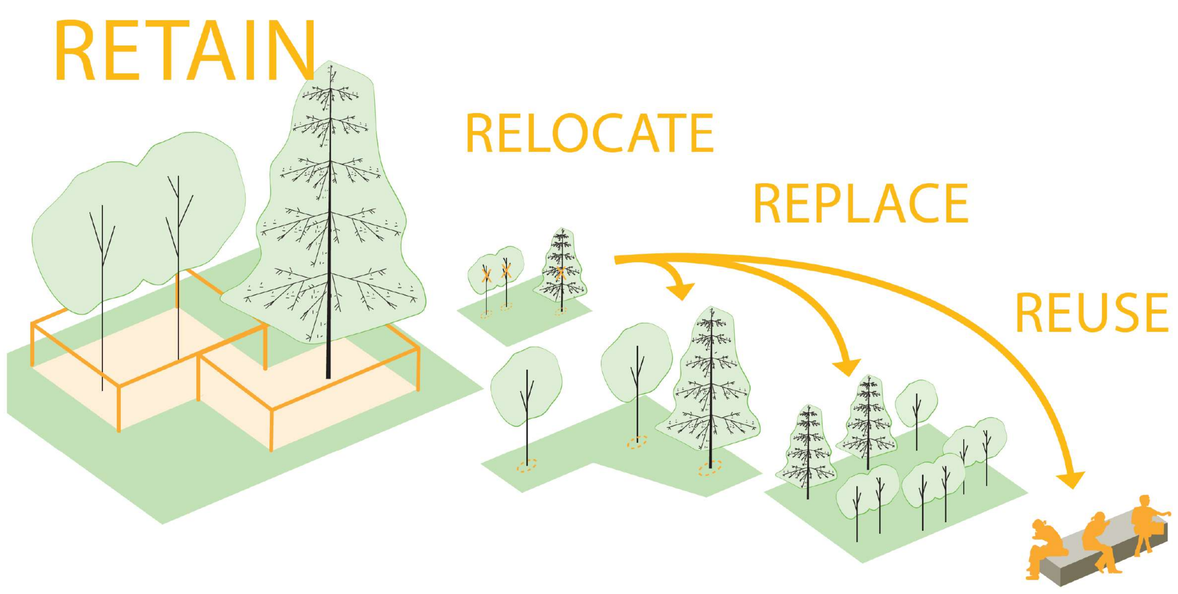
The goal of the project's sustainability approach is to have an overall positive influence on the environmental sustainability of UVic's campus landscape. The landscape designs are exploring five primary strategies to deliver this goal:

- Outdoor water features that make use of water runoff
- Integrated storm water management
- Biodiversity & restoration Including Indigenous plantings
- Sustainable materials
- Opportunities for green roofs

ENVIRONMENTAL STEWARDSHIP STRATEGY

This strategy is employed to maximize the opportunity to reuse and replace any trees that are removed as required by this project. We commit to:

- Replace a removed tree with three new trees on campus
- Where possible, relocate removed trees or reuse the wood in the building and/or gift the wood to local Indigenous communities
- Work directly with local Indigenous communities to ensure cultural and ceremonial processes are followed prior to any tree removal



TRANSPORTATION

VEHICLE PARKING

The university has engaged a transportation engineer to conduct a comprehensive review of the university's current parking supply as well as future parking demand.

HOW ARE WE ADDRESSING SHORT TERM PARKING?

The project requires four new parking stalls: 2 accessible parking stalls and 2 short-term parking stalls.

HOW ARE WE ADDRESSING LOADING AND DELIVERIES?

Loading and deliveries to the ECS Expansion will addressed through the existing ECS' loading point.

Loading for the High Bay Research and Structures Lab will take place to the east of the new building. An overhead door will give access to the building from the loading area.

HOW ARE WE ADDRESSING INCREASED DEMAND?

Through transportation analysis, we expect this project to increase parking demand on the UVic campus by 20 stalls.

However, the estimated parking demand reduction of 74 vehicles from the Student Housing and Dining project outweighs the forecasted demand increases from the project.

Although the new Student Housing and Dining project will meet the needs of the forecasted parking demand increase, the Oak Bay Parking Facilities Bylaw requires 63 new parking stalls. Because this project is within the District of Oak Bay, it will require a parking variance approval.

SUSTAINABLE TRANSPORTATION

Over 60% of all trips to and from campus are made by transit, cycling, walking, or carpooling. To support members of the campus community who don't drive, and support the University's sustainability goals, UVic provides a number of alternative travel programs, initiatives, and support systems.

BICYCLE UPCYCLING AND LOAN PROGRAM

SPOKES provides low-cost, long or short term bike rentals.

CAMPUS BIKE CENTRE

The Centre provides covered bike parking, equipment lockers, benches and a space for the SPOKES bicycle program.

PUBLIC TRANSIT

U-Pass provides students with unlimited access to Victoria region public transit.

UVIC EMPLOYEE BUS PASS PROGRAM

The program offers more than 50% off the regular price of taking transit.

THANK YOU!

YOUR FEEDBACK WILL BE USED TO INFORM THE CONTINUED DESIGN OF THE ENGINEERING PRECINCT EXPANSION.

WE WILL COMPILE YOUR FEEDBACK INTO AN ENGAGEMENT SUMMARY IN APRIL.

SEE YOU IN THE FALL!