UC SANTA BARBARA
Design & Construction Services
Design, Facilities & Safety Services

Design Review Committee (DRC)
Meeting Agenda
April 12, 2023

Meeting Location and Time:
ZOOM
Meeting ID: 876 6138 2313
Passcode: 503812
1:00 – 3:00pm PDT

Committee Members:

Susannah Scott, Co-Chair - Senate Chair
Renée Bahl, Co-Chair - Associate Vice Chancellor
Alice Kim, Architect - Design Consultant
Annjulie Vester - GSA Student Representative
Derrik Eichelberger, Landscape Architect - Design Consultant
Joseph Sable - AS Student Representative
Julie Eizenberg, Architect – Design Consultant
Julie Hendricks, Campus Architect, Staff Representative – Design & Construction Services
Lisa Jacobson - Senate Appointed Faculty Representative
Matthew Begley – Senate Appointed Faculty Representative
Richard Wittman – Senate Appointed Faculty Representative
Silvia Perea - University Art Museum

Staff Support – Ed Schmittgen, Design & Construction Services

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Welcome and Introductions

1. Roll call – Ed Schmittgen

General Business

1. Purpose of DRC – Renée Bahl
2. Review & Approval of Meeting Minutes from Meeting of October 5, 2021 – Renée Bahl

Action Items

1. Eddelman Quantum Institute – Site & Massing Level Review
   Project Proponent: *Joe Incandela, Vice Chancellor for Research*
   Architect: *David King, Sr. Vice President, SmithGroup*

Project Updates – Julie Hendricks

UC **SANTA BARBARA**
Design & Construction Services
Design, Facilities & Safety Services

Design Review Committee (DRC)
Meeting Minutes
October 5, 2021

Meeting Location and Time:
ZOOM Meeting
3:00 – 5:00pm PST

Committee Members:

Susannah Scott, Co-Chair, Senate Chair, Professor, Chemical Engineering
Renée Bahl, Co-Chair, Associate Vice Chancellor, Design, Facilities & Safety Services
Dawn Holmes, Senate Appointed Faculty Representative
Dennis McFadden, Design Consultant, Architect & Design Director, Leo A Daly
Derrik Eichelberger, Design Consultant, Landscape Architect, Arcadia Studio Landscape Architecture
Jack Johnson, AS Student Representative
Julie Eizenberg, Design Consultant, Architect & Founding Principal, Koning Eizenberg
Julie Hendricks, Staff Representative, Campus Architect & Director, Design & Construction Services
Ram Seshadri, Senate Appointed Faculty Representative
Pedro Craveiro, GSA Student Representative
Silvia Perea, Acting Director, University Art, Design & Architecture Museum
Volker Welter, Senate Appointed Faculty Representative

Staff Support – Ed Schmittgen, Associate Director, Design & Construction Services

Welcome: Co-Chair, Renée Bahl

Ed Schmittgen – conducted role call, those below were in attendance.

1. Susannah Scott
2. Renée Bahl
3. Dawn Holmes
4. Dennis McFadden
5. Derrik Eichelberger
6. Jack Johnson
7. Julie Hendricks
8. Pedro Craveiro
9. Ram Seshadri
10. Silvia Perea
11. Volker Welter

General Business:

Co-Chair Renée Bahl gave an overview of the charge of the Design Review Committee.

In summary the Design Review Committee is a recommending body focusing primarily on the exterior features and aesthetics; siting and contextual relationship with adjacent buildings; circulation including pedestrian, bikes and vehicles; landscape design, and other environmental matters.

Ms. Bahl then reviewed the standard DRC process and emphasized the Munger Hall Project has not followed the typical process.

Action Items:

Munger Hall – 100% Schematic Design Level Review
Project Proponent: *Gene Lucas*
Architect of Record: *Navy F Banvard, VTBS Architects*

MUNGER HALL DISCUSSION: Ms. Bahl turned over discussion to Gene Lucas

Gene Lucas was introduced and provided a project background

Dr. Lucas noted that this is a donor assisted (funded) building: Charles Munger Hall. The donor has been working with the architect VTSB for approximately seven years, evolving the concept. A primary objective is to satisfy an LRDP goal of providing 5,000 more beds. Another objective is to maximize the potential of modular/prefabricated construction. The project has been a learning experience for all, and has made UCSB as a leader in construction technology.

Ms. Bahl introduced architect Navy Banvard & team:

Navy Banvard, VTBS Architects - guided us through a PowerPoint presentation, in summary:

Mr. Banvard reviewed the history of the project, which first and foremost is intended to address the urgent need for more student housing. The team has been working closely with an engaged philanthropist whose passion for Student Housing has resulted in three significant built projects: Stanford University – Law School, University of Michigan – Graduate Student Housing, Kavli Institute for Theoretical Physics (KITP) at UCSB.

An overview of site context and site design was presented, describing the constraints of the Mesa Road site, vehicle and service access. Site circulation was emphasized, in particular, two bike parking areas to the north and south that would accommodate 3,000 bicycles, a "Flying Stair" to provide pedestrian access to the south, and a bike path extension to direct bicycle traffic east to the Recreation Center along Mesa Road. Landscaping was briefly reviewed, identifying a mixture of pines, oaks, Catalina ironwoods, and eucalyptus as primary elements.

An overview of site lighting emphasized lighting at entrances, pathways and roads, featuring campus standard, dark sky compliant fixtures.

Floor plans were reviewed, with floors 1-10 being organized around a north/south central corridor. The ground floor features staff apartments and a market and bakery to provide retail & amenity space at north and south locations.

Residential floors 2-10 feature 8 "houses" per floor. Each house has 8 suites with 8 persons per suite. 10 exit stairs per floor facilitate emergency egress.

The 11th Floor – "Our Town in the Sky"- is an amenity level, featuring a fitness center, a demonstration kitchen and a multi-purpose room. A central courtyard would be covered by a transparent roof (similar to LA's SoFi stadium in Englewood). The courtyard features a series of themed landscape areas with lush vegetation.

The exterior walls are structural shear walls. The façade reflects the program within, with a classical manner including a rusticated base. The living levels 2-10 constitute the main body of the façade. The 11th floor is articulated to emphasize "Our Town in the Sky", with 28-30 ft tall ceilings. East and west elevations reflect the living spaces and convivial kitchen.

Primary exterior building materials for the walls of floors 1 through 10 are precast concrete. Windows are commercial grade aluminum windows. All glass will be fritted 30% to 40% to reduce the potential for bird strikes. The11th floor uses GFRC siding material. Iron railings add detail and shadow lines.

This presentation led to a lively discussion, with comments and feedback from DRC members as follows:

<u>The Design – DRC Comments:</u>

A concern was expressed that building code requires natural light and natural ventilation in bedrooms. The committee asked whether the design is consistent with the code-requirement for windows in bedrooms.

A concern was expressed that the extra-long twin beds, which are designed to be wall-to-wall, are too short to accommodate taller students.

A member of the DRC asked whether it is reasonable to expect eight students in one-bedroom cluster to walk to the bathrooms (if they are sick, etc.) through the living area?

Multiple concerns were expressed about how the site would handle the logistics of move-in days, when thousands of students need to bring cars with their belongings up to the structure within a relatively short period of time.

The height of the proposed building, at approximately 159 ft, was a concern. By comparison, Francisco Torres Tower (Santa Catalina) is between 120ft – 140 ft. A taller building may be in conflict with the environmental sensitivity of the campus, and impact sight lines towards the ocean and mountains. How does this reflect on UCSB as an environmental leader, and how is it compatible with our incredible Santa Barbara setting? The building's size, heaviness and architectural language do not correspond to idea of co-inhabiting. Other UCSB housing projects have considered these factors. How do we justify overlooking them in this case?

Concerns were expressed about the justification of the building as a prototype (for other campuses). How could it be presumed to work on other campuses?

Concerns were expressed about the carbon footprint of the building. The lack of natural ventilation and extensive use of artificial lighting are not conducive to a low carbon footprint.

Regarding signage, will students have difficulty locating their rooms/pods when they are by design all the same. Will signage be needed to help orient students?

Adaptability/flexibility was discussed. How will the architecture adapt to changing uses over time? The plans seem very rigid, with no flexibility in the design of the spaces. For example, art students may have different space needs from students in more book-oriented disciplines. Can more flexibility be included in the pods?

A concern was expressed that the grading may be excessive and too close to the slope at the southern edge of the site. It was suggested to confirm this condition with the required setbacks.

A suggestion was made to clarify the interactions between bikes and pedestrians on the north and south sides of the building.

The site plan may benefit from additional plant material near the southwest, off the fire lane.

There appears to be a disconnect between the spaciousness of the amenity areas and the compressed size of the student living spaces. A committee member suggested rebalancing to better distribute the spatial resources.

A general concern was expressed that the building does not (visually) reflect UCSB's principles of environmental sensitivity. Student residents won't see or feel the panelized construction as environmentally beneficial. The rooftop garden is not visible from the outside or from the living floors. Can there be a greater emphasis on greenery throughout?

The amount of bike parking may not be sufficient for the number of planned residents.

A concern was expressed about access and egress for disabled students. For students with mobility issues, the site is quite a long way from the main campus. Also, how would an emergency evacuation of disabled students be accomplished?

Project Updates: Julie Hendricks

Interactive Learning Pavilion: (formerly Classroom Building)
Ms. Hendricks reported that construction began approximately one year ago and is nearly 50% complete. Over the summer a storm water retention system was installed under the parking lot. Currently the average daily worker count is between 25 - 30 and will ramp up substantially when more trades come on the site at the conclusion of structural steel erection. Meanwhile work on underground utilities continues.

Furniture selection is progressing with a subcommittee reviewing options.

There is a DCS/DFSS website for ongoing information.

The project remains on schedule and on budget, opening in Spring 2023.

Associated Students Bike Shop:
Ms. Hendricks reported that the project is out to bid using the best value process. Five general contractors are shortlisted, invited to bid.

Bids are due October 12th

California Coastal Commission approval is anticipated this month.

Construction will start in November lasting 12 months.

Arnhold Tennis Center:
Ms. Hendricks reported that the project was completed last summer. The courts are fully operational for both the Men's and Women's Tennis teams. They are practicing daily while new recruits are being toured around, they are extremely impressed. The next big installation will be a camera system which will allow for live streaming for fans and parents to watch matches.

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Action Item
Design Review Committee
April 12, 2023
Project: **Eddleman Quantum Institute**

Discussion/Action
The Design Review Committee is being requested to review the site design and massing for the Eddleman Quantum Institute Building project and make a recommendation to the Chancellor to proceed with schematic design.

Staff Recommendation
The project be approved and continue into Schematic Design.

Description
The Eddleman Quantum Institute Building (EQIB) will provide a home to support joint efforts of physics and engineering researchers of quantum science and engineering. The building will provide state-of-the art research laboratories, incubator labs, large and small collaborative common areas, conference spaces, a café, and offices to accommodate administration, graduate students, post-doctoral researchers, and research faculty. The project program totals 113,532 Gross Square Feet (GSF) and 69,467 Assignable Square Feet (ASF) split evenly between research laboratory space and office and common space.

Background
UCSB's Eddleman Center for Quantum Innovation (ECQI or the Center) was established in 2020 to facilitate the acceleration of progress in quantum science and engineering research, education and programs. Building on the campus' interdisciplinary approach and renowned strengths in theoretical physics, quantum chemistry, and materials science, the center strives to inspire new quantum scientists, build connections across disciplines with shared facilities and industry partnerships, and incubate new faculty and research. The design goal of the new building is to catalyze this research by creating environments for collaboration.

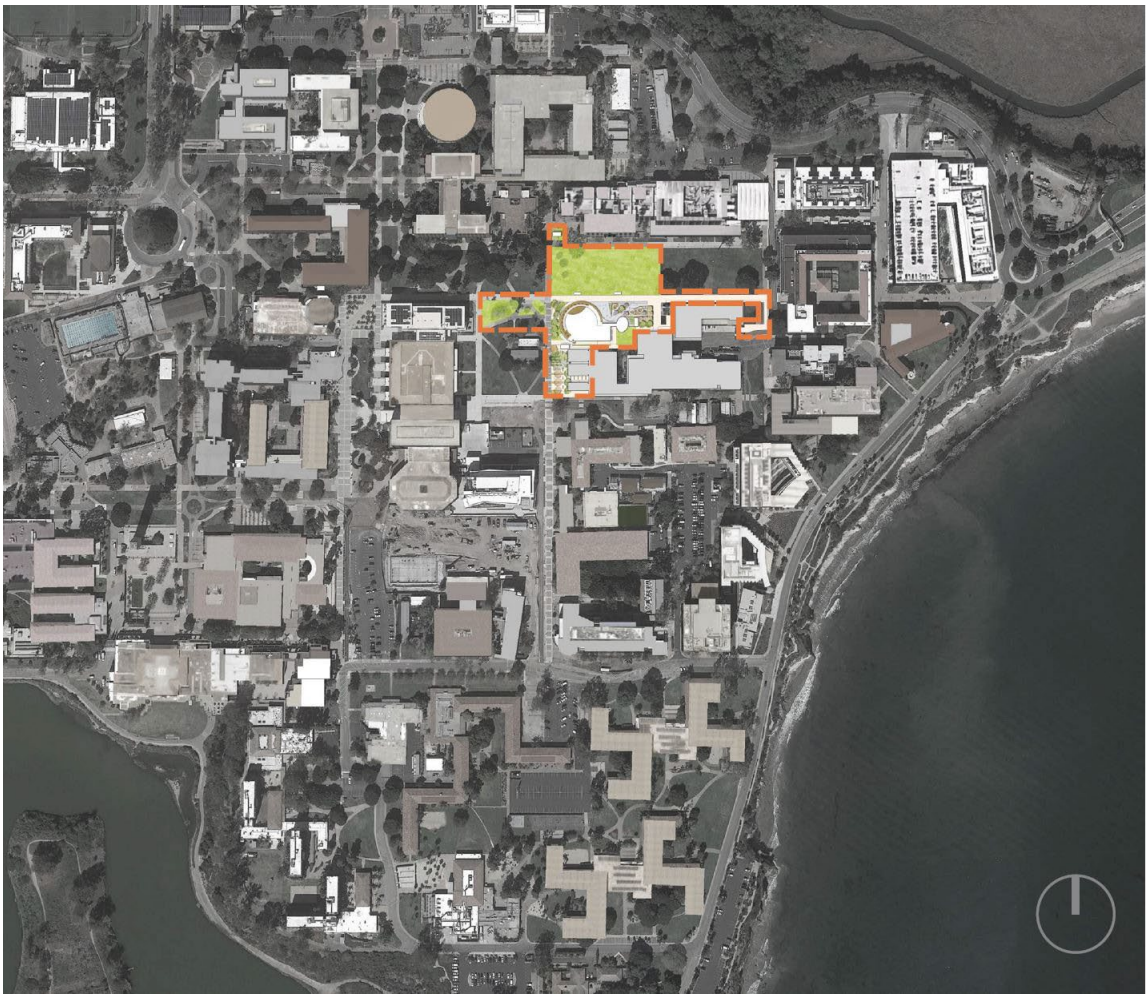
Program
EQIB's program focuses on laboratories and offices that support quantum science and engineering research. Laboratories and support space account for 34,687 ASF. A total of 37 labs include Condensed Matter Experiment, Atomic/Molecular/Optical, Hybrid, High Stability Laboratory, Laser, Synthesis, and Incubator labs. Support facilities include control and prep rooms, service corridors, and collaboration spaces for lab occupants including lounge areas and conference rooms. Offices and related support space

account for 34,780 ASF and will accommodate the administrative office, and research offices for research faculty, graduate students, and post-docs. Office support and common spaces includes an entry lobby, cafe, a boardroom with a kitchenette, a demonstration lab, conference rooms, and commons.

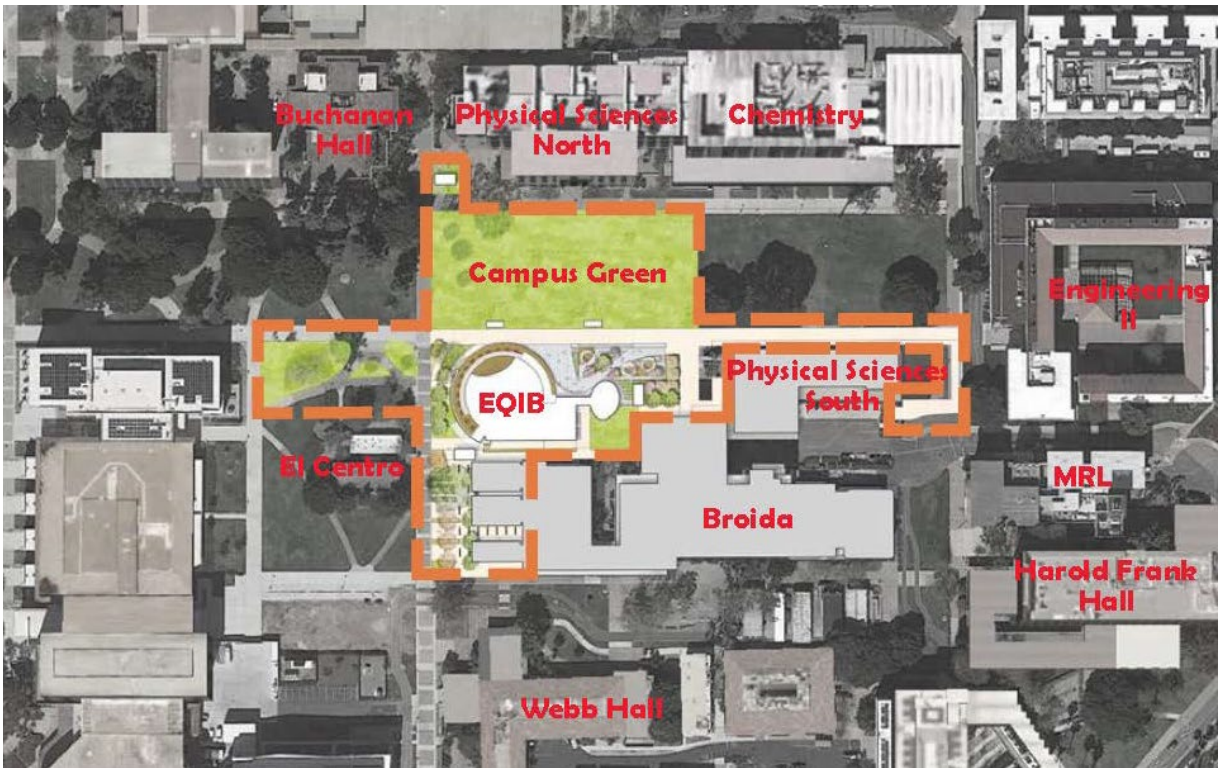
Site

Located in the center of the existing science buildings, the EQIB site is encircled by Broida Hall, Physical Science North and South, Chemistry, and Webb Hall. It is located at the southeast corner of the intersection of the campus green and Science Walk. The northern edge of the site is approximately 100 feet from the southern walkway bounding the Campus Green, with an extension to the northwest just beyond the walkway north of the green. Broida Hall and Physical Sciences South lie to the east. To the south lies the Broida Lecture Hall and three temporary trailers. The western edge of the site is bounded by Science Walk, beyond which is El Centro. The EQIB is located to maximize space available for additional future development. New Bike Parking is to be located in the southwest corner of the project site which will provide bike parking for the new seminar space and the existing Broida Hall lecture hall. The Project Site is depicted in the illustrations to follow.

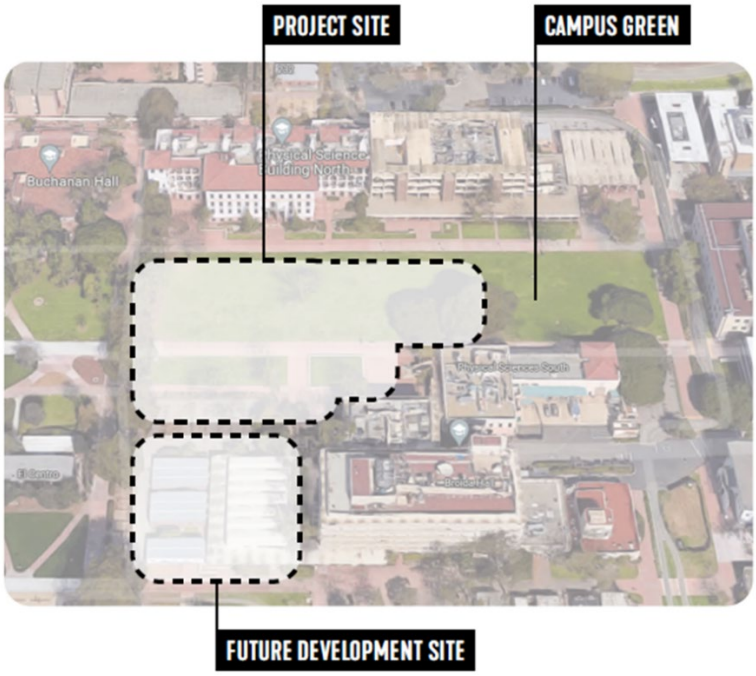
Campus Map



Base Site Concept Plan



Future Development Site Plan

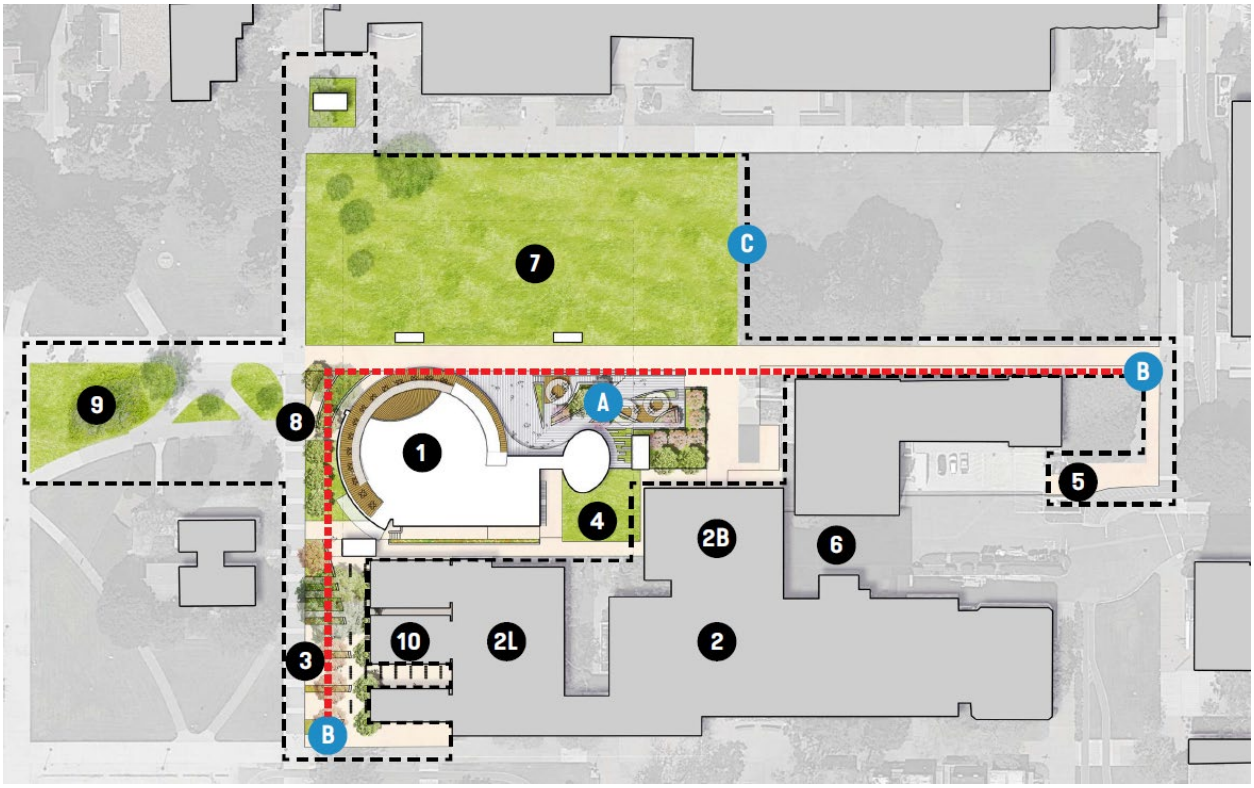


Site and Massing Design

The project proposes a massing and site design in accordance with the planning framework in Section C of the 2010 Long Range Development Plan (LRDP): *The campus academic disciplines and activities be arranged together in a coherent and logical system of open spaces and circulation. Pedestrian circulation should be well connected to destinations.*

EQIB responds to campus plan guidelines by incorporating build-to lines, paseos, and courtyards that reinforce key edges and alignments of the existing campus. The conceptual design provides pathways to accommodate bicycle and pedestrian traffic and a landscape that provides spaces for exterior gathering and bicycle parking. The siting of the new building along the green's northern boundary anchors its intersection to Science Walk. The site encourages connectivity to Broida Hall and the broader campus. Comprised of four stories, three above ground and a penthouse, the project conforms to the LRDP height limit of 85 feet. The illustration below depicts the site guidelines.

LRDP Site Guidelines



Legend

1. EQIB
2. Broida Hall
2B. Baby Broida
2L. Broida Lecture Hall
3. Bike Barque
4. New Electrical Transformers
5. New Emergency Generator
6. Receiving/Loading Area
7. Campus Green
8. Science Walk
9. Storm Water Bio Retention
10. Trailers
A. Courtyard
B. Build-To Line
C. Scope of Work

Site Design

The landscape architecture will consist of planting and pedestrian hardscape features that will create a safe and aesthetically pleasing open space by defining a sense of place, optimizing intuitive site circulation and reinforcing view corridors. It will complement the architectural character of the new building and will be cohesive with the surrounding campus.

The design will also include sustainable and environmentally responsible features to the greatest extent possible to meet Cal Green Code requirements and LEED design credits. The hardscape will be compliant with ADA standards for accessible design, Water Efficient Landscape Ordinance (AB1881), and other regulatory requirements that apply to this site. Landscaping improvements associated with storm water retention requirements may extend west to the grass area north of El Centro, and access improvements may extend east to the Broida Hall loading dock.

Vehicular access is restricted to the existing service drive and receiving and loading area. Day-to-day receiving and shipping will route through an upgraded walkway near "Baby Broida" to the southern entry of the Institute.

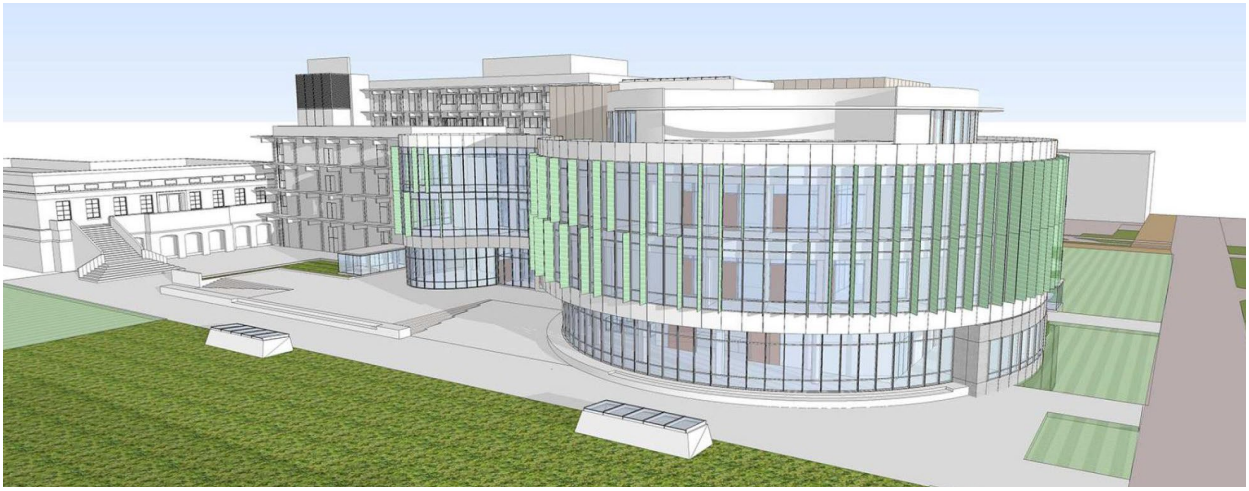
Site design and material selection shall be durable, complementary to the building, interior spaces, and the surrounding campus. Site furnishings such as benches, trash receptacles, and bike racks shall also be complementary to the campus and will be located at key areas identified on the plans. Plantings will complement and reflect the character of the campus in this zone—indicated in the campus plan as Mediterranean. Plant selection will be chosen to perform well and require the least amount of ongoing maintenance.

Building Massing

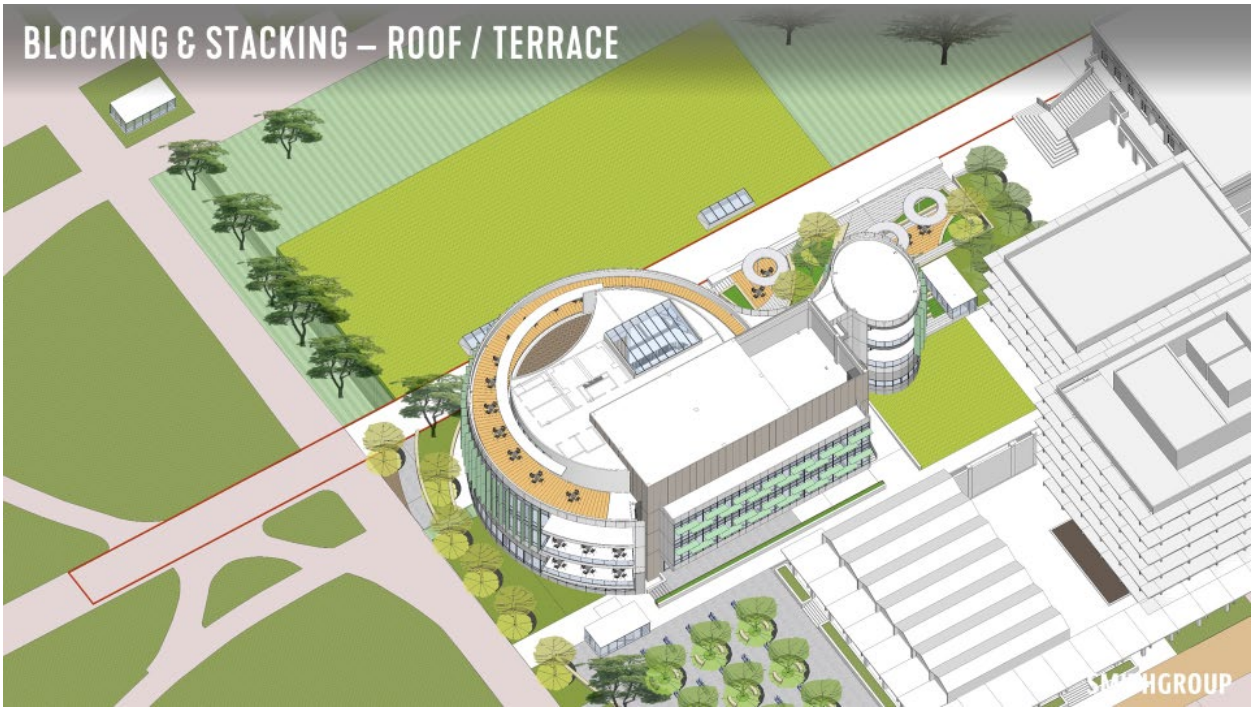
Radial massing defines the EQIB with a curvilinear façade whose width grazes the southern border of the Campus Green. The superstructure measures 208'L by 130'W by 69'T overall. A sloping terrace serves as an accessible forecourt to the building's main entry and-an inviting entry into the public-facing, interactive spaces and offices on the ground floor. Exterior balconies are located on the south side of each floor. The planned façade consists of a curtain wall or window wall system with glazing to allow generous amounts of natural light into the offices and collaboration spaces. The building envelop will be durable, water-resistant, and compatible with the surrounding context. Where possible and applicable to the interior use, exterior windows shall be used to provide natural light and views to the exterior. A skylight and atrium provide natural light to collaboration zones while operable windows provide the option of fresh air at the office floors of Levels 2 and 3. Skylights provide daylight to the labs below the Campus Green.

Below is a wire frame conceptual rendering of the building.

Wire Model Concept Renderings




BLOCKING & STACKING – LEVEL TWO & THREE


BLOCKING & STACKING – ROOF / TERRACE

Lower Level

The EQIB sites lab facilities beneath the adjacent Campus Green. The underground location provides operational benefits for the resource-intensive and vibration-sensitive lab facilities with strict environmental controls. The east-west circulation concourse leads to conference rooms, lounge spaces, restrooms, a kitchenette, and access to Synthesis and Laser Labs. Two secondary north-south corridors each open midway to lounges with natural light from skylights placed at the edge of the Campus Green above and lead to the bulk of the Hybrid, Condensed Matter, Atomic/ Molecular/ Optical, and Incubator Labs. The Lower level also contains the mechanical and electrical plant for the EQIB, as well as the IT/Data hub.

A section view of the building is depicted below.

Section Concept

Ground Level

From the main building entry at the north from the Campus Green and a second entry at the south from Broida Lecture Hall, a central gallery extends to public activity spaces including the large lobby with open stairs to the lower and upper levels. A primary, East-West circulation path defines the floor plan. The ground level includes a 50-person seminar room to hold events and a demonstration lab to showcase quantum research. It also contains the ECQI administrative suite which will include a conference room, shared support, and offices. Support spaces such as electrical and telecom closets are located on the west side of the core. The existing Broida Hall loading area will service the building at the ground level.

Levels Two and Three

The two upper levels are identical in layout and will house the offices, workspaces, and conference rooms. The faculty research offices define the building's radial shape on the north side building and wrap around collaboration spaces, both enclosed and open. Space for building occupants will be provided in both closed and open offices.

The EQIB is currently planned to accommodate up to 36 faculty & staff, 44 post docs and 168 graduate students. The open stations near the exterior allow for daylight to penetrate deep into the floor plate, and the modular layout allows for future flexibility.

Roof

At the roof level, an open terrace with elevator access and restrooms will provide opportunities for large group gatherings, overlooking the Campus Green to the north and with views westward as well. The balance of the roof houses a penthouse for mechanical equipment and venting. The functional use of the building requires that the cooling tower and exhaust fans be located on the roof. Exposed, roof-mounted equipment, such as cooling towers and lab exhaust fans, will be screened from view to the greatest extent possible.

Construction Site

The proposed Eddleman Quantum Institute Building will be constructed on a site west of Broida Hall. It is anticipated that the project may include the demolition and removal of three classroom trailer buildings west of the Broida Lecture Hall. Generally, all hardscape within the limit of work will be demolished.

The Project will excavate to depths of approximately 30 feet below grade to accommodate the approximately 58,000 SF basement structure. The existing traditional stormwater management system will not be utilized. Sanitary Discharge from the Site will be tied into an existing sewer. The project will tie into the existing chilled water supply system to serve Levels 1-3 and the Roof. The Lab Level will be served by a dedicated low temperature heat recovery chiller.

Structural

The recommended foundation consists of a 33-ft by 22-ft grid of columns surrounded by a perimeter of reinforced concrete foundation walls. The superstructure system may consist of steel framing with a composite concrete deck. The offices will be designed as a mixed mode ventilation system to include operable windows. All laboratories are to be fitted with venture type air terminal units. All non-laboratory spaces will use traditional air terminal units.

Consistency with Existing Plans and Regulatory Documents

The proposed site is consistent with the land use designation in the 2010 LRDP. A Mitigated Negative Declaration (MND) will be prepared in accordance with the California Environmental Quality Act (CEQA) and the preparation of an Initial Study is underway to determine potential areas of impact to be analyzed in the MND. Energy Design for this project will target; LEED Gold, UCSB 2025 carbon neutrality and CALGreen initiatives.

Schedule
Donor funding to prepare the schematic design for the project is expected to become available in September 2023. In advance of that in July 2023, Campus will seek Regental approval of the project scope and budget to move into the Design phase. Upon receipt of the balance of donor funding, construction could begin in February 2025, with a 30-month construction period and occupancy in August 2027.

Budget
The total cost to plan, design, and construct the EQIB as described in the Detailed Project Program is estimated at $180 million. Planning, design, and construction of the facility will be funded in parallel with donations to develop companion quantum facilities at UC Irvine and CalTech. Due to changes in the schedule for receipt of donor funding, compounded by recent escalation in construction costs, the Campus expects to engage in a program reconciliation exercise to right-size the program before starting the Design phase of the project in Fall 2023.

Consultation
The Project Committee for the Eddleman Quantum Institute Building reviewed and approved the site and massing design. The Campus Planning Committee will review the project in April and May, 2023. The project will return to the Design Review Committee for Schematic Design review and approval.

Project Proponents
Joe Incandela, Vice Chancellor for Research

UNIVERSITY OF CALIFORNIA, SANTA BARBARA

EDDLEMAN QUANTUM INSTITUTE BUILDING

Design Review Committee

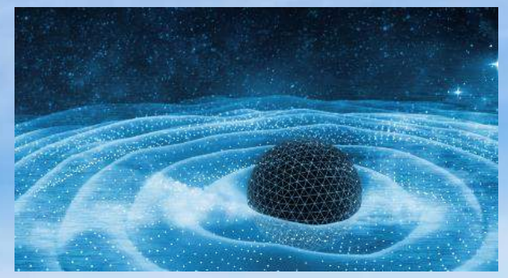
April 12, 2023

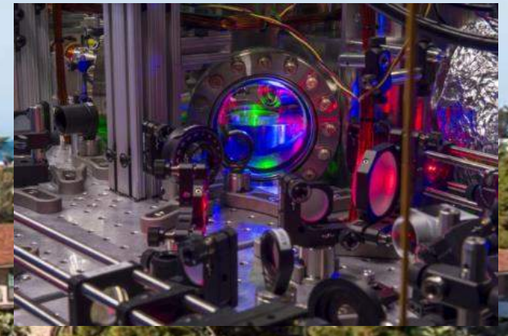
MISSION STATEMENT

The primary goal of the **Eddleman Quantum Institute Building** is to enable collaborative, fundamental quantum science research. The main enabling component of the building will be **high-quality laboratory space** suitable for quantum science.

Key secondary goals in support of this mission are:

- To build and sustain an **interdisciplinary quantum science community** on campus
- To exploit the outcomes of basic research for development of **new and powerful instruments and applications**



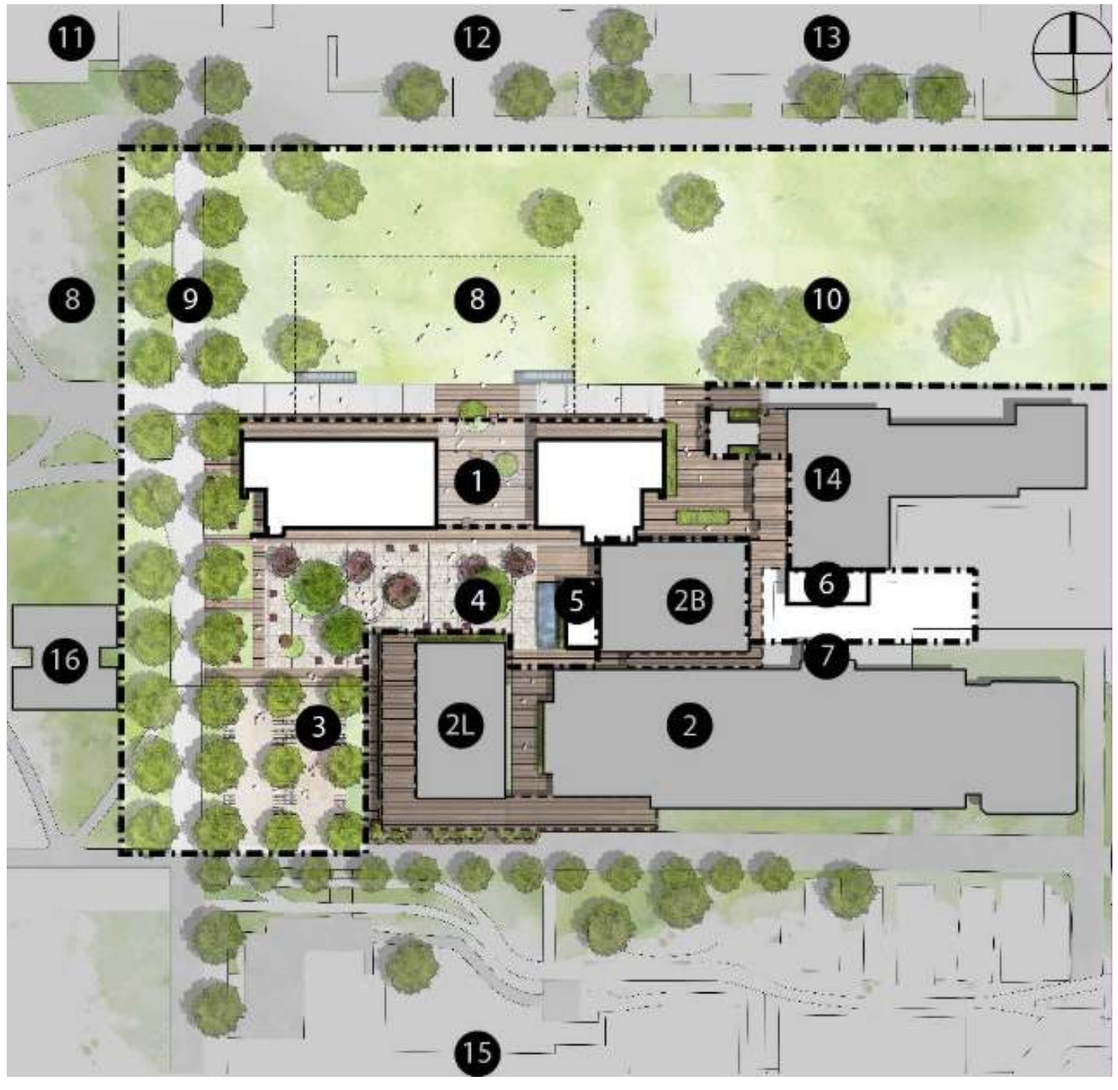


The secondary goals will be supported by; interactive spaces that nucleate a vibrant campus research community, with flexible lab and office spaces suitable for evolving needs in **industry engagement and collaborative projects**.

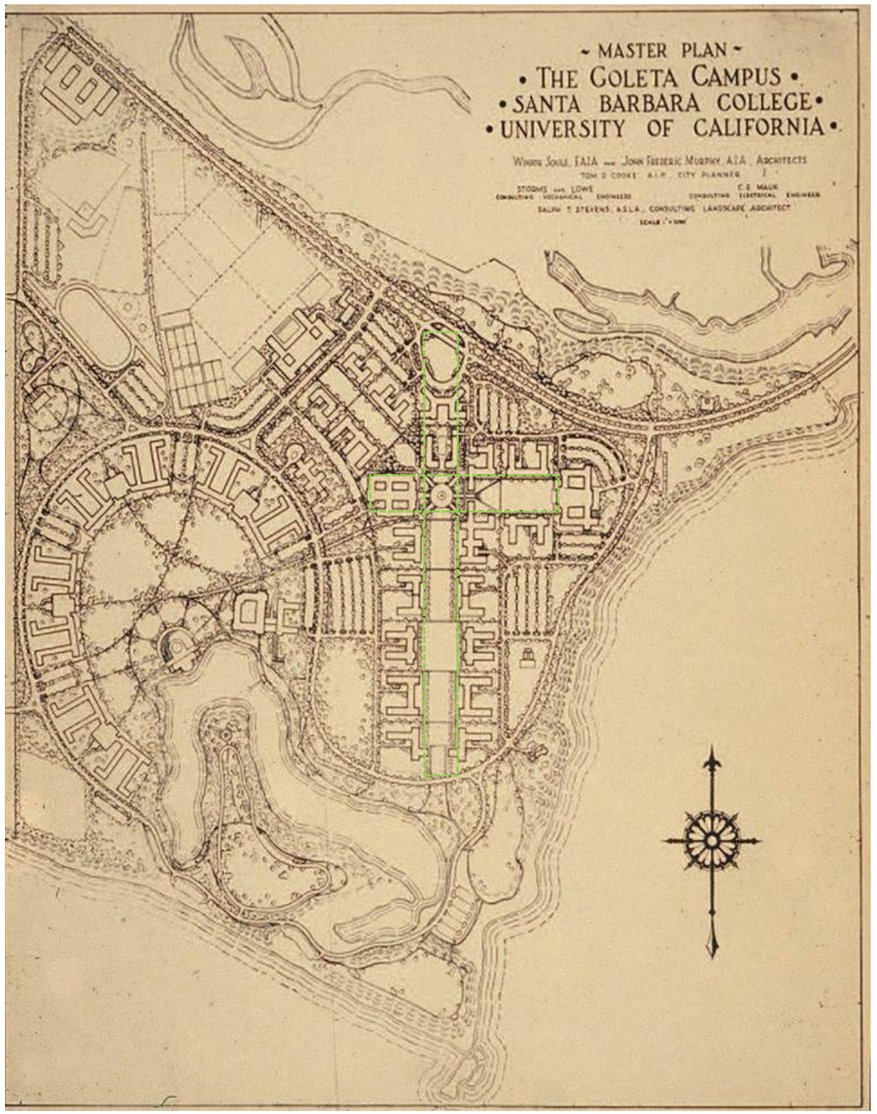
The DPP for the Eddleman Quantum Institute will serve as the Basis of the Design for the **world's premier quantum science and engineering research facility**

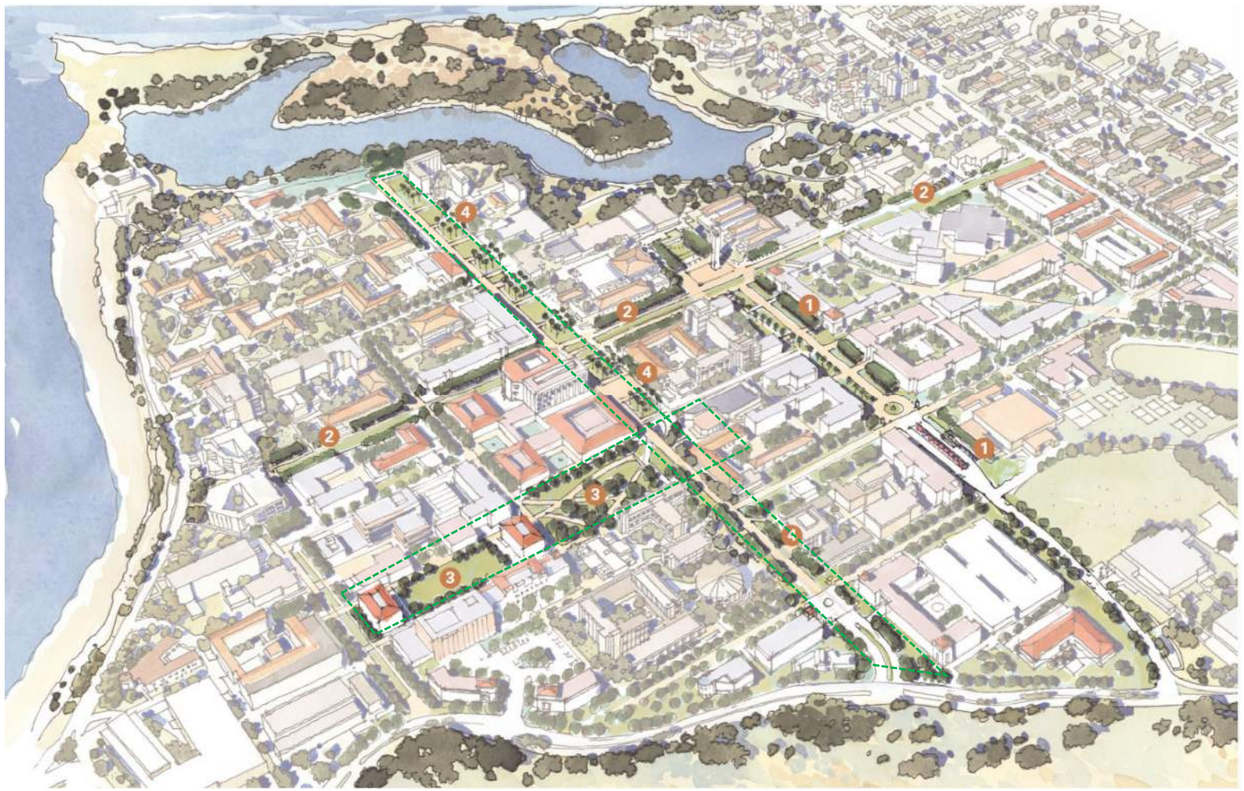
CAMPUS

NEW PHYSICS BUILDING – 2017



HISTORY IS INTERESTING





PROGRAMMING PROCESS & SCHEDULE

OVERALL ENGAGEMENT – DETAILED PROJECT PROGRAM

FEBRUARY 4 & 7

DPP COMPLETE BY JUNE 30

UCSB
Eddleman Quantum Institute Building

		PREP	Phase 1 - Program					Phase 2 - Concept Design					Phase 3 - Draft DPP					Phase 4 - Final DPP					
		Week of Jan 31	Week of Feb 7	Week of Feb 14	Week of Feb 21	Week of Feb 28	Week of Mar 7	Week of Mar 14	Week of Mar 21	Week of Mar 28	Week of Apr 4	Week of Apr 11	Week of Apr 18	Week of Apr 25	Week of May 2	Week of May 9	Week of May 16	Week of May 23	Week of May 30	Week of Jun 6	Week of Jun 13	Week of Jun 20	Week of June 27
ENGAGEMENT	Core Team Meetings	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Stakeholder Committee Meetings		●		●		●		●		●		●		●		●		●		●		●
	Workshops		☆ KICK OFF & VISIONING		☆	WORKSHOP #2 INITIAL Space Program Room Diagrams Blocking & Stacking Systems Site Cost	☆		☆ WORKSHOP #3 REFINEMENTS of Space Program Room Diagrams Blocking & Stacking Concept Design Systems Site Cost		☆	WORKSHOP #4 CONFIRMATION of Space Program Room Diagrams Blocking & Stacking Concept Design Systems Site Cost										
	Design Review Board (Committee?)														☆ Presentation								
	Campus Planning Committee															☆ Presentation							
DELIVERABLES	Costing		▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬	▬						
	Drafts								Spring Break			☆	☆ Internal Draft		☆ First Draft					☆ Second Draft			
	Review Periods											Drafts from Consult	SG Rev		UCSB Review					UCSB Review			
	Revisions														Revisions			Memorial Day	Revisions	Commencement		Revisions	
	Final																					☆ FINAL	

PROGRAM – SUPPORT / TOTAL ASF & GSF

FAST FACTS

- 113,500 GSF
- 4 FLOORS
- 37 LABORATORIES
- 36 FACULTY OFFICES
- 44 POST DOC WORKSTATIONS
- 168 GRAD STUDENT WORKSTATIONS

TOTAL						69,467 ASF	
TOTAL BASIC GROSS AREA						113,532	
TOTAL OUTSIDE GROSS AREA						114,561	
EFFICIENCY (ASF/GSF)						61%	

69,467 ASF

113,532 GSF

61% EFFICIENT

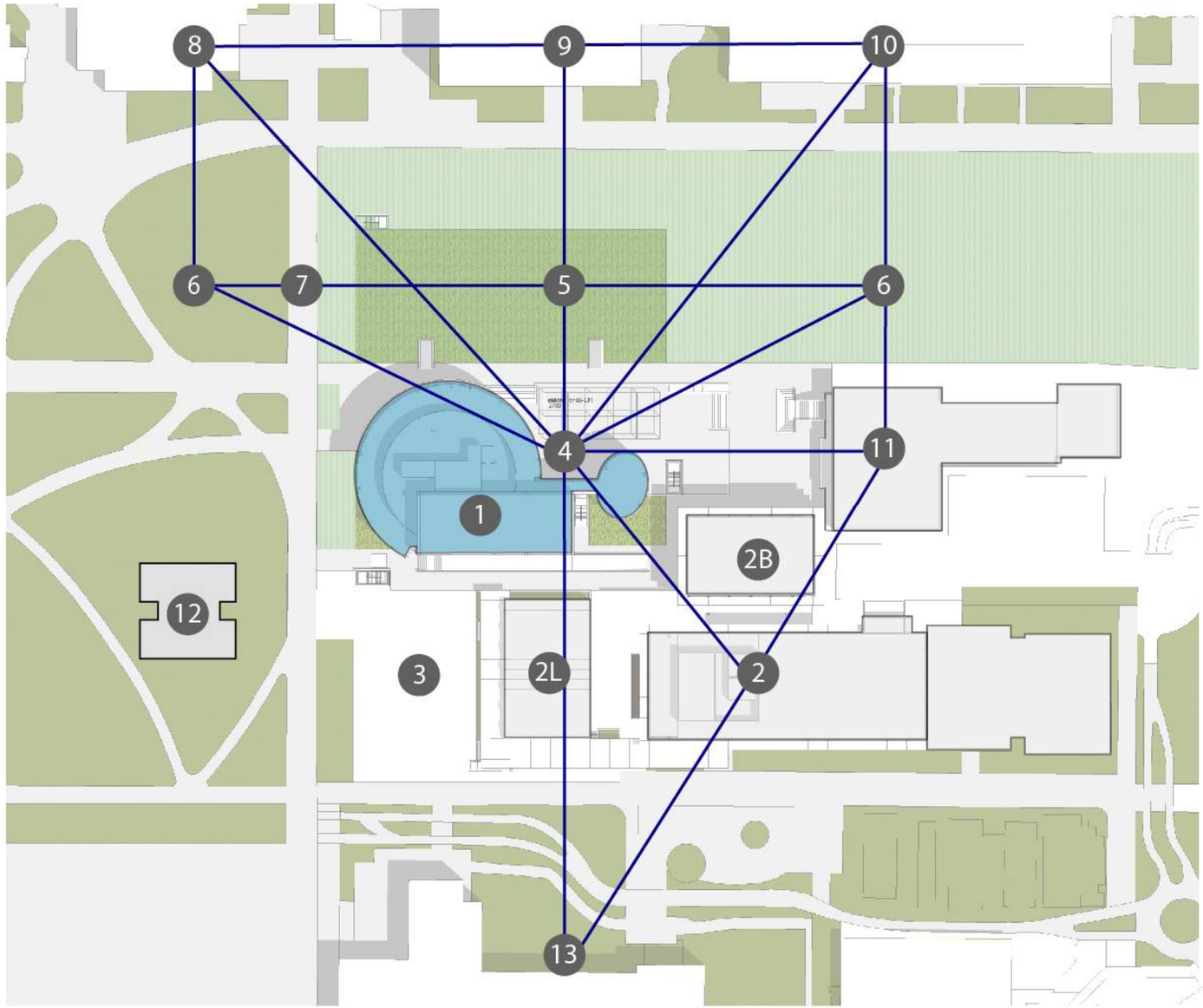
RESEARCH LABORATORY LEVEL

SITE


Ellison Hall
Buchanan Hall
Physical Science Building North
232
Engineering Science Building
Engr II
PROJECT SITE
POTENTIAL FUTURE EXPANSION SITE
El Centro
932
Physical Sciences South
Broida Hall
Department of Mat
Materials Research Laboratory

SITE – OPPORTUNITIES & CONSTRAINTS

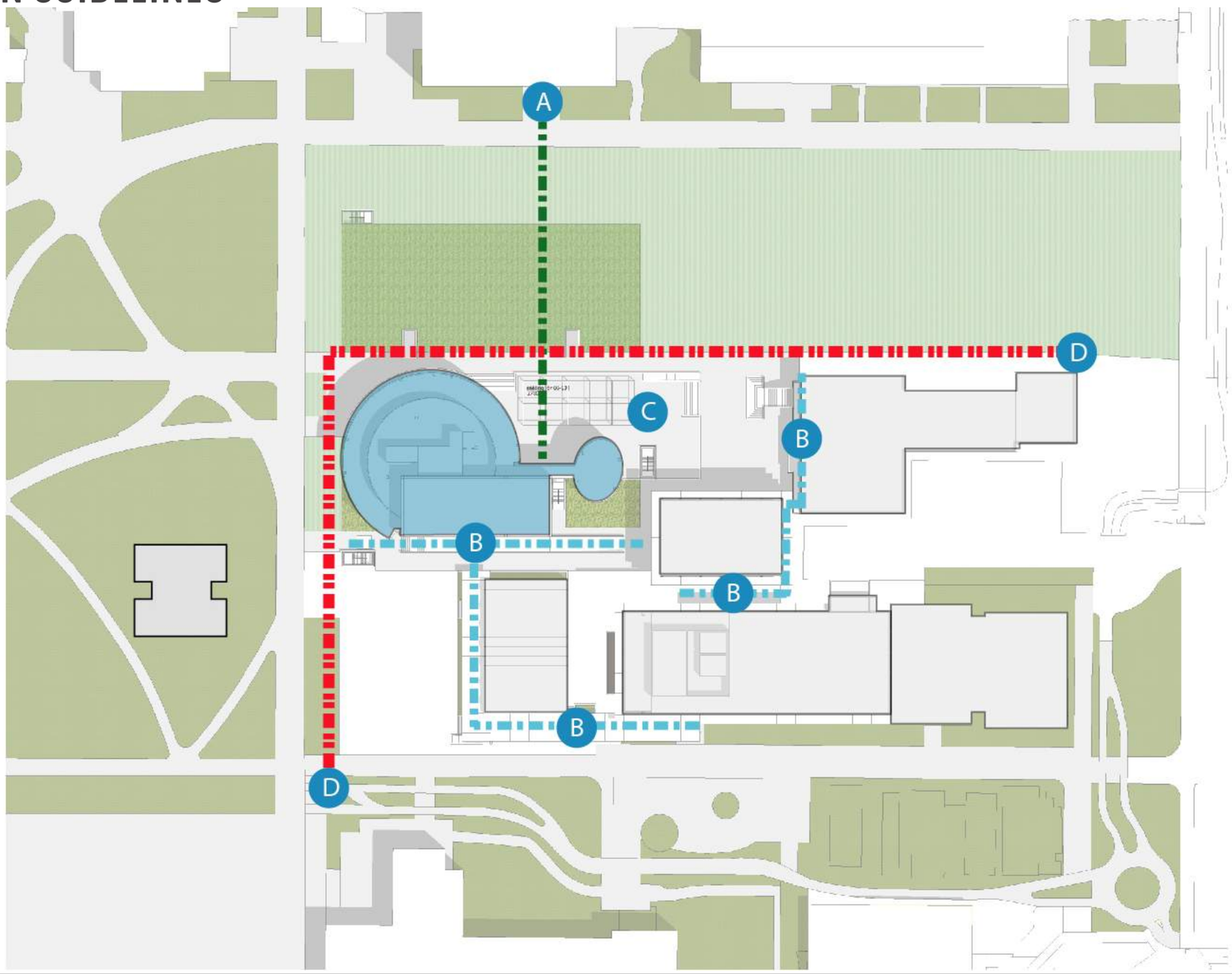
CAMPUS GREEN & SCIENCE WALK



1 New Physics Building
2 Broida Hall
2B Baby Broida
2L Broida Lecture Hall
3 Bike Barque
4 New Physics Plaza
5 New Physics Basement
6 Campus Green
7 Science Walk
8 Buchanan Hall
9 Physical Sciences North
10 Chemistry
11 Physical Sciences South
12 El Centro
13 Webb Hall

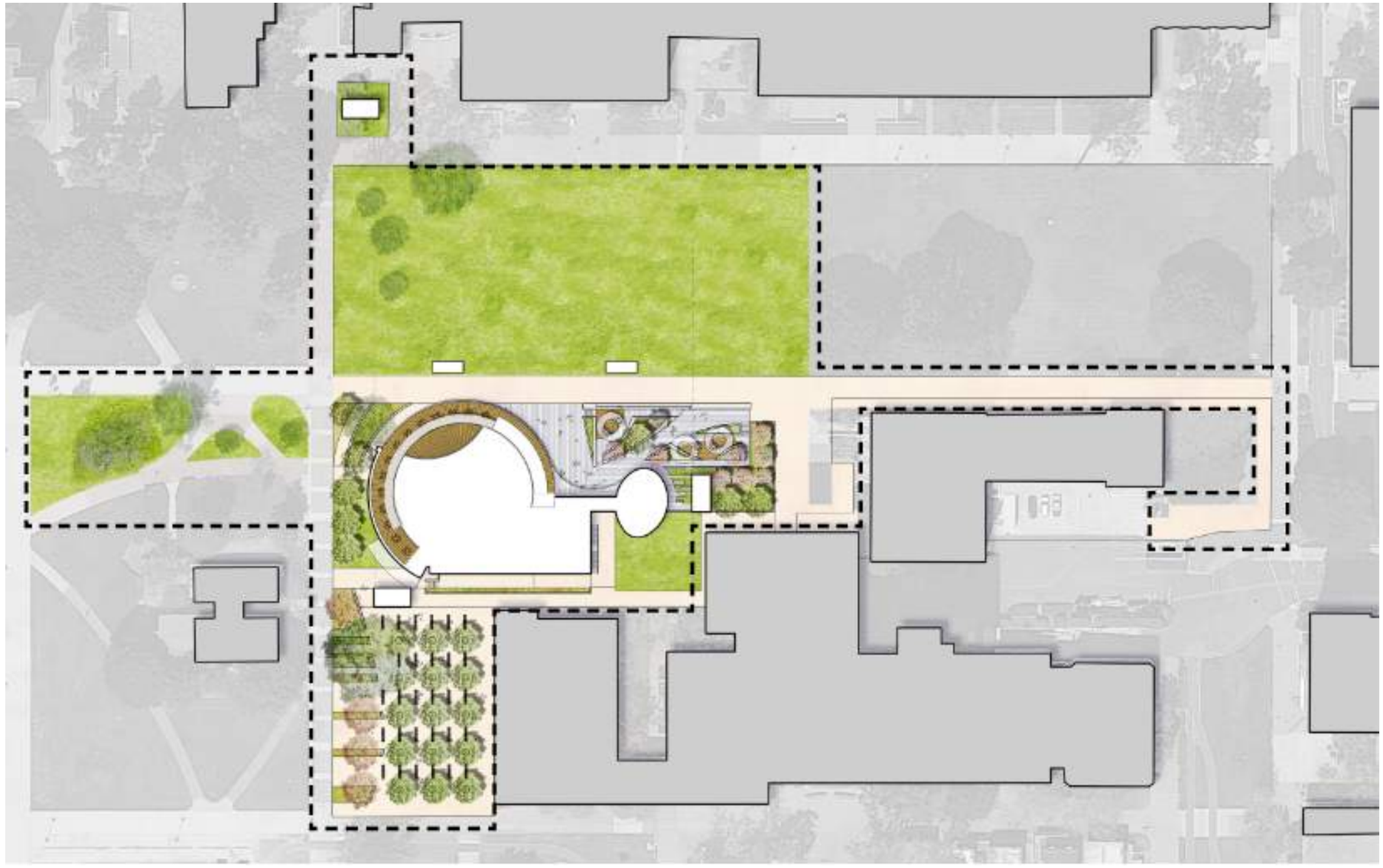
SITE – OPPORTUNITIES & CONSTRAINTS

MASTER PLAN DESIGN GUIDELINES

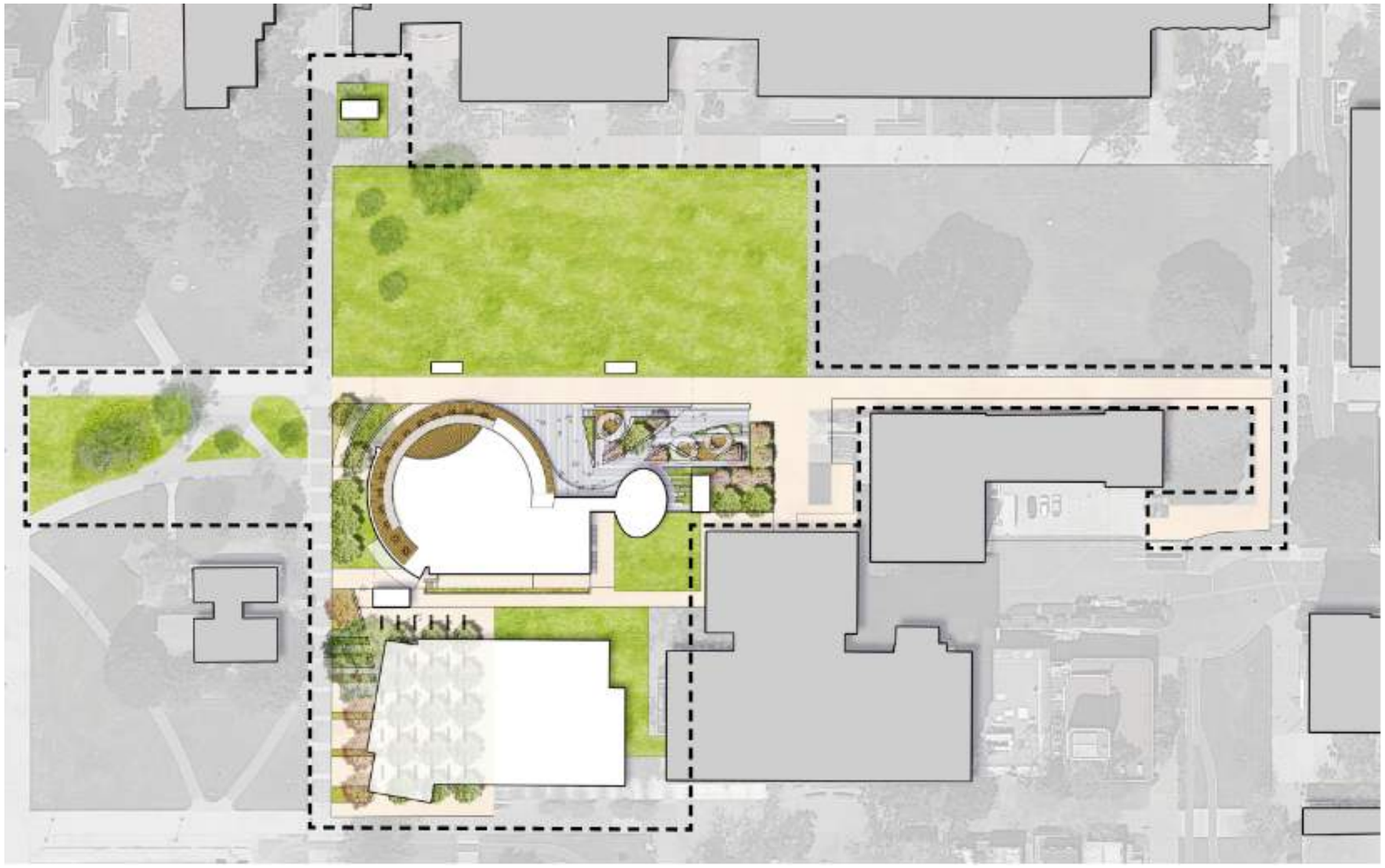


A Defined Entrance
B Paseo
C Courtyard
D Build-to-Line

SITE PLAN



SITE – POTENTIAL BUILDING

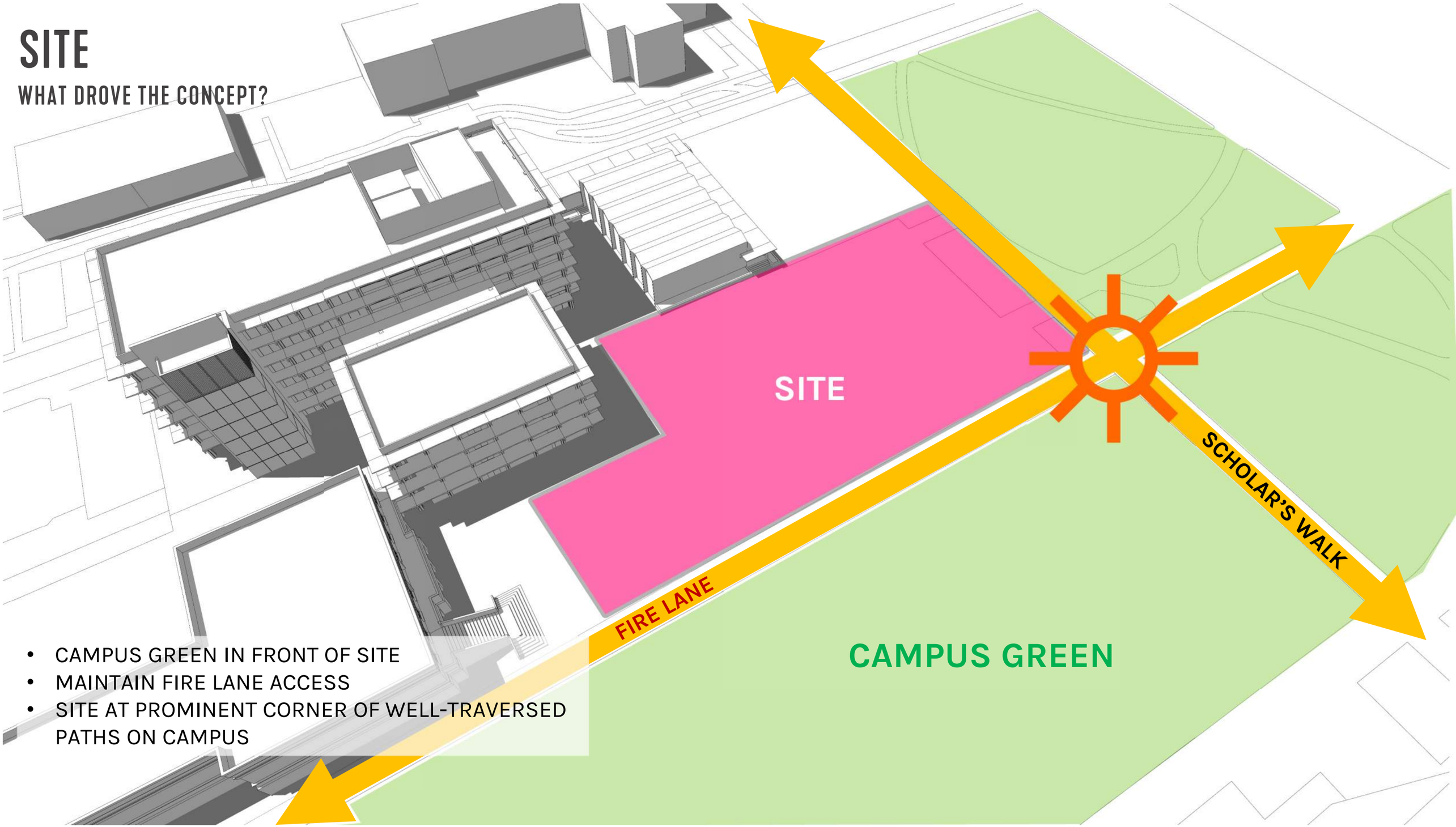


CONTEXT

The **UCSB Physical Design Framework** guided us in the University's rich architectural tradition with proposed design elements that are specific to the new building but organized and scaled in a way that clearly relates the new structure to its immediate setting and the general scale and texture of the campus.

SITE

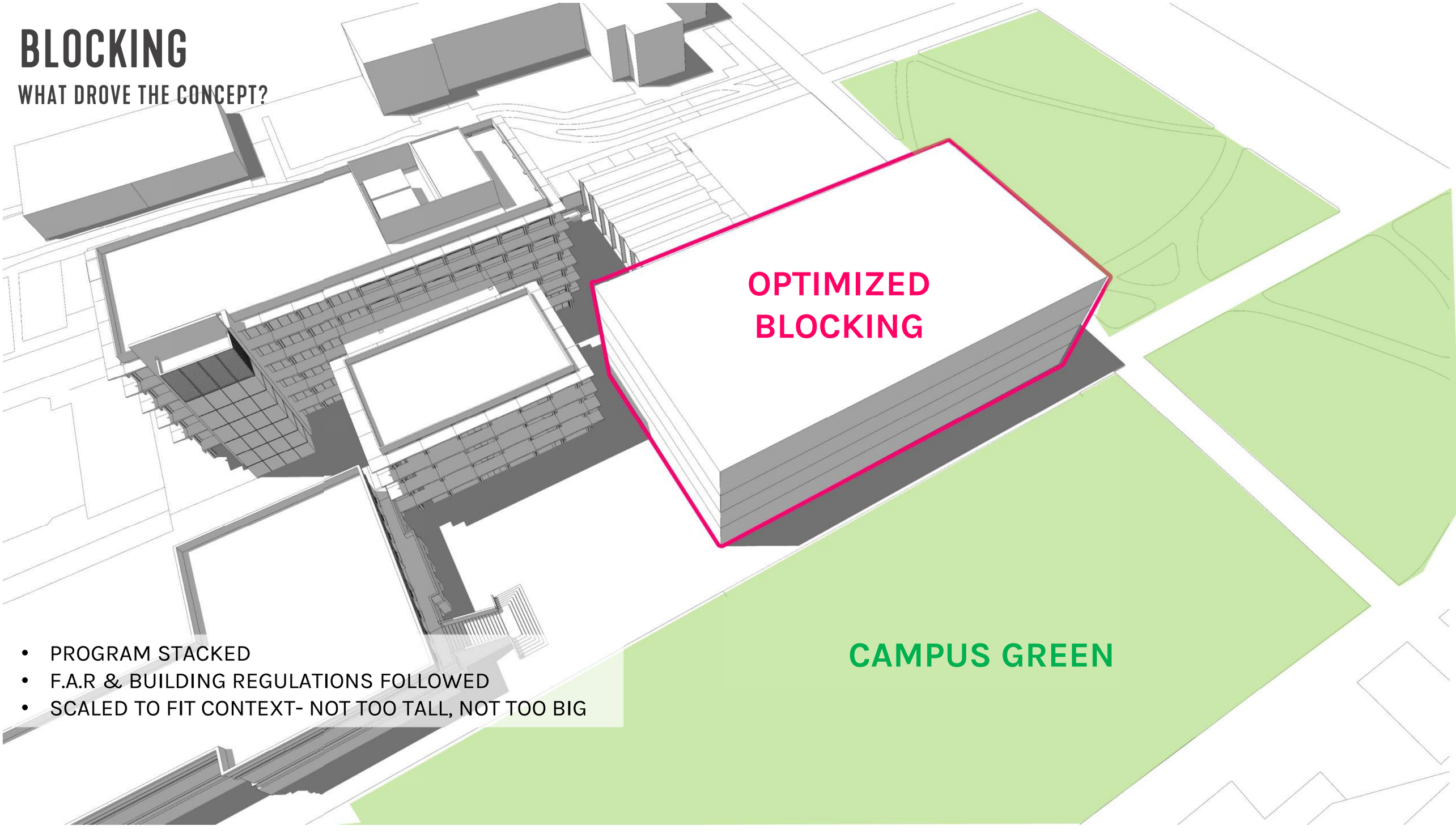
WHAT DROVE THE CONCEPT?



- CAMPUS GREEN IN FRONT OF SITE
- MAINTAIN FIRE LANE ACCESS
- SITE AT PROMINENT CORNER OF WELL-TRAVERSED PATHS ON CAMPUS

BLOCKING

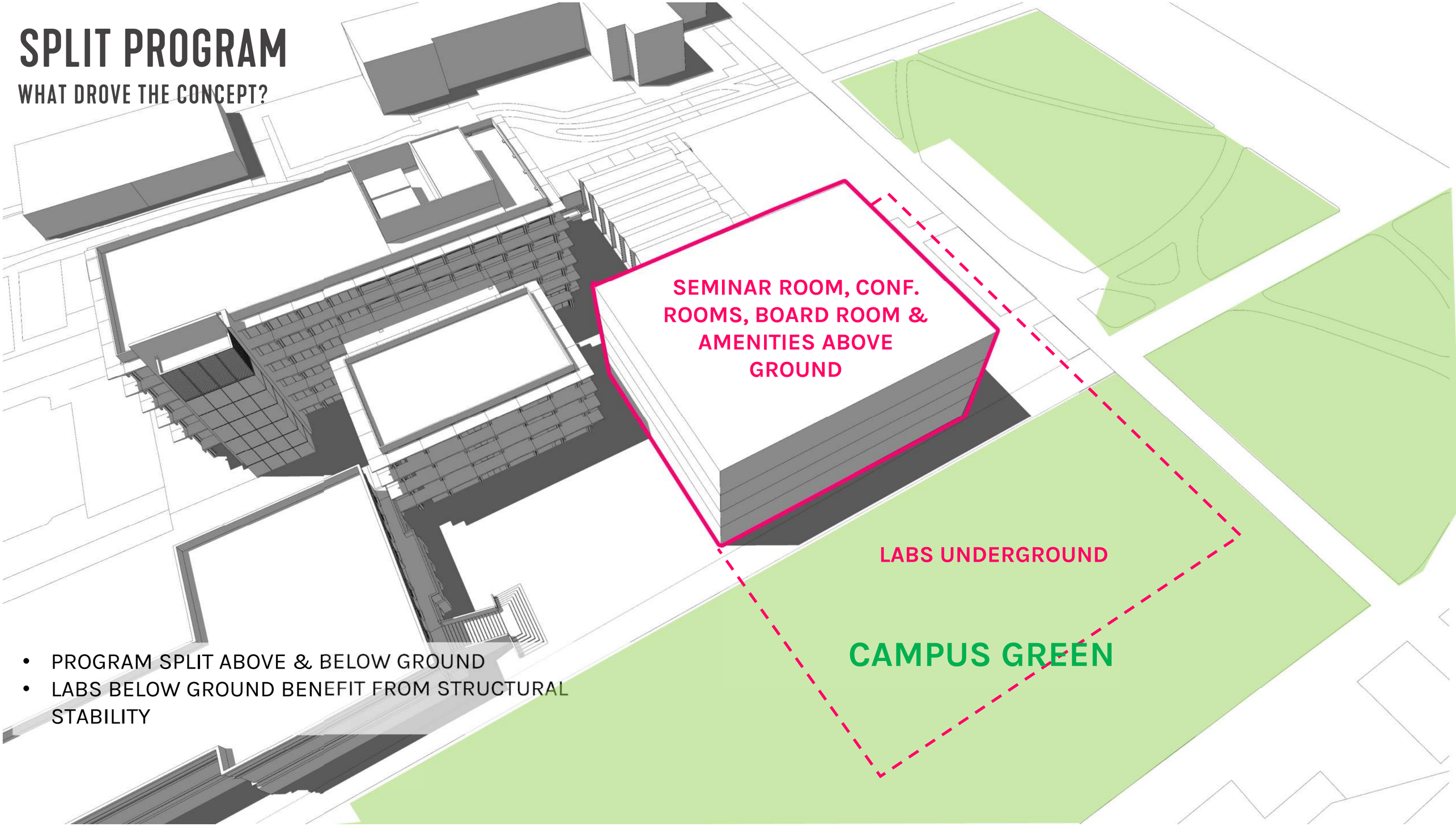
WHAT DROVE THE CONCEPT?



- PROGRAM STACKED
- F.A.R & BUILDING REGULATIONS FOLLOWED
- SCALED TO FIT CONTEXT- NOT TOO TALL, NOT TOO BIG

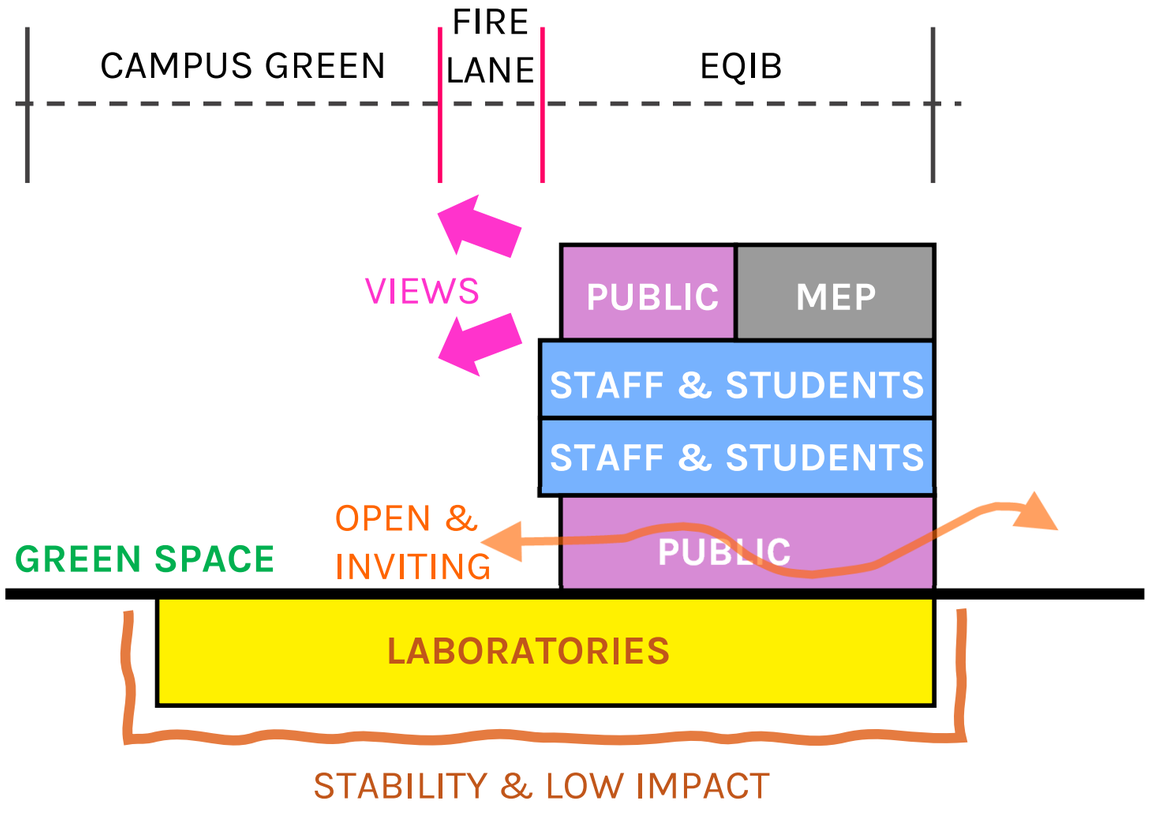
SPLIT PROGRAM

WHAT DROVE THE CONCEPT?

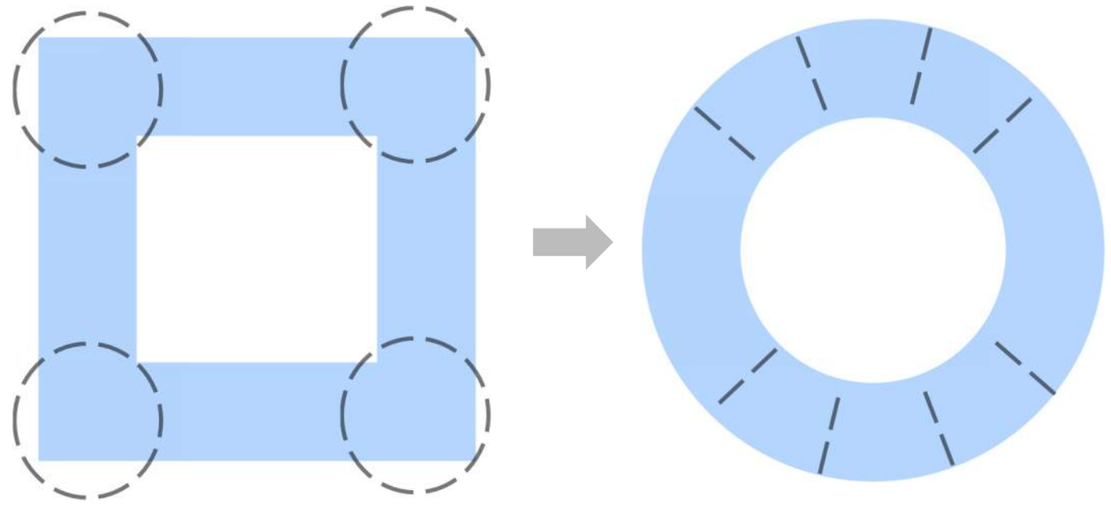


- PROGRAM SPLIT ABOVE & BELOW GROUND
- LABS BELOW GROUND BENEFIT FROM STRUCTURAL STABILITY

DESIGN DRIVERS



BESPOKE & CONTEXTUAL



FROM HIERARCHY, PRIORITY & RIGID FORMALITY

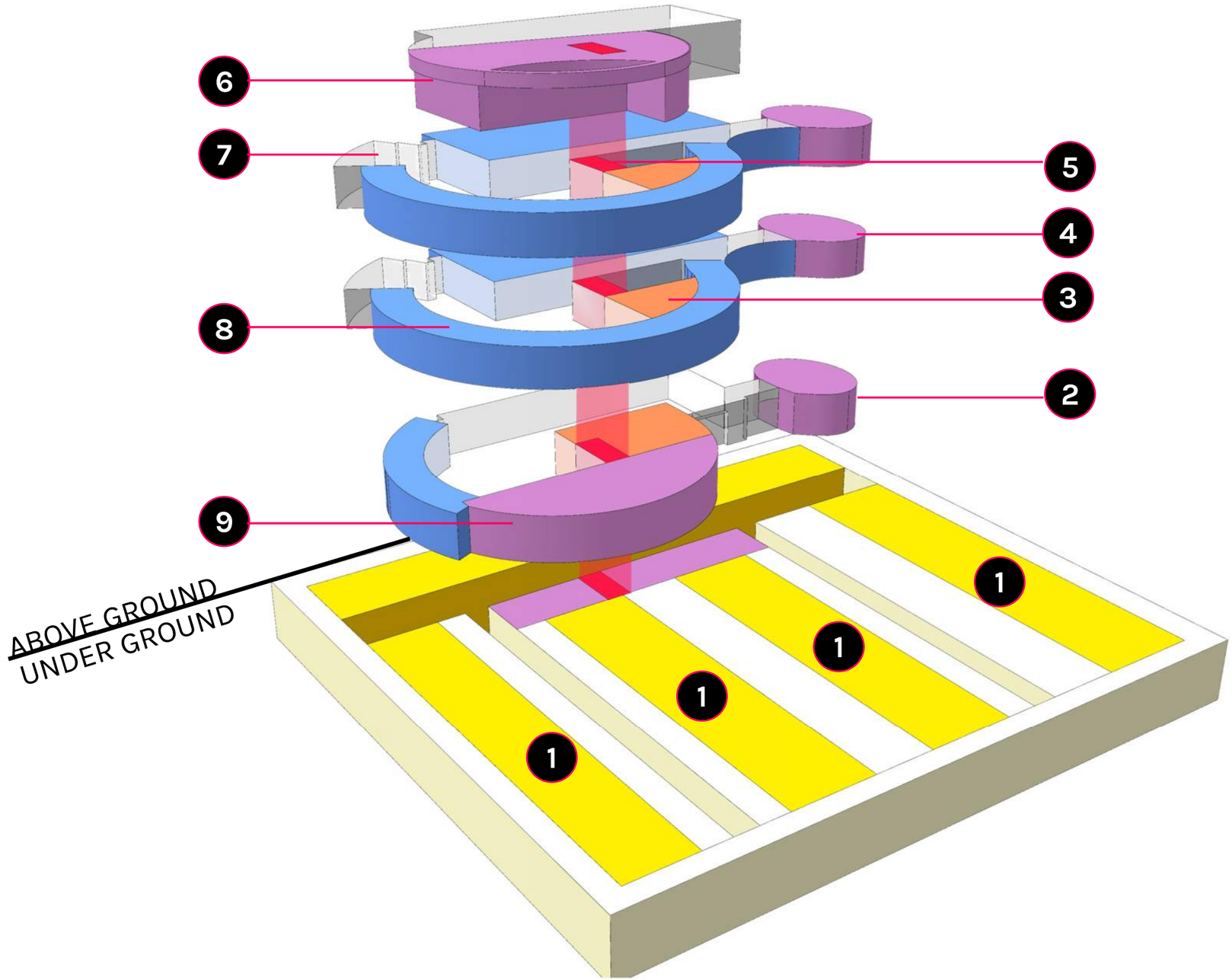
TO CHOICE, NO "CORNER" OFFICES & COLLEGIALITY

INCLUSIVE & COLLABORATIVE

PROGRAM DRIVERS

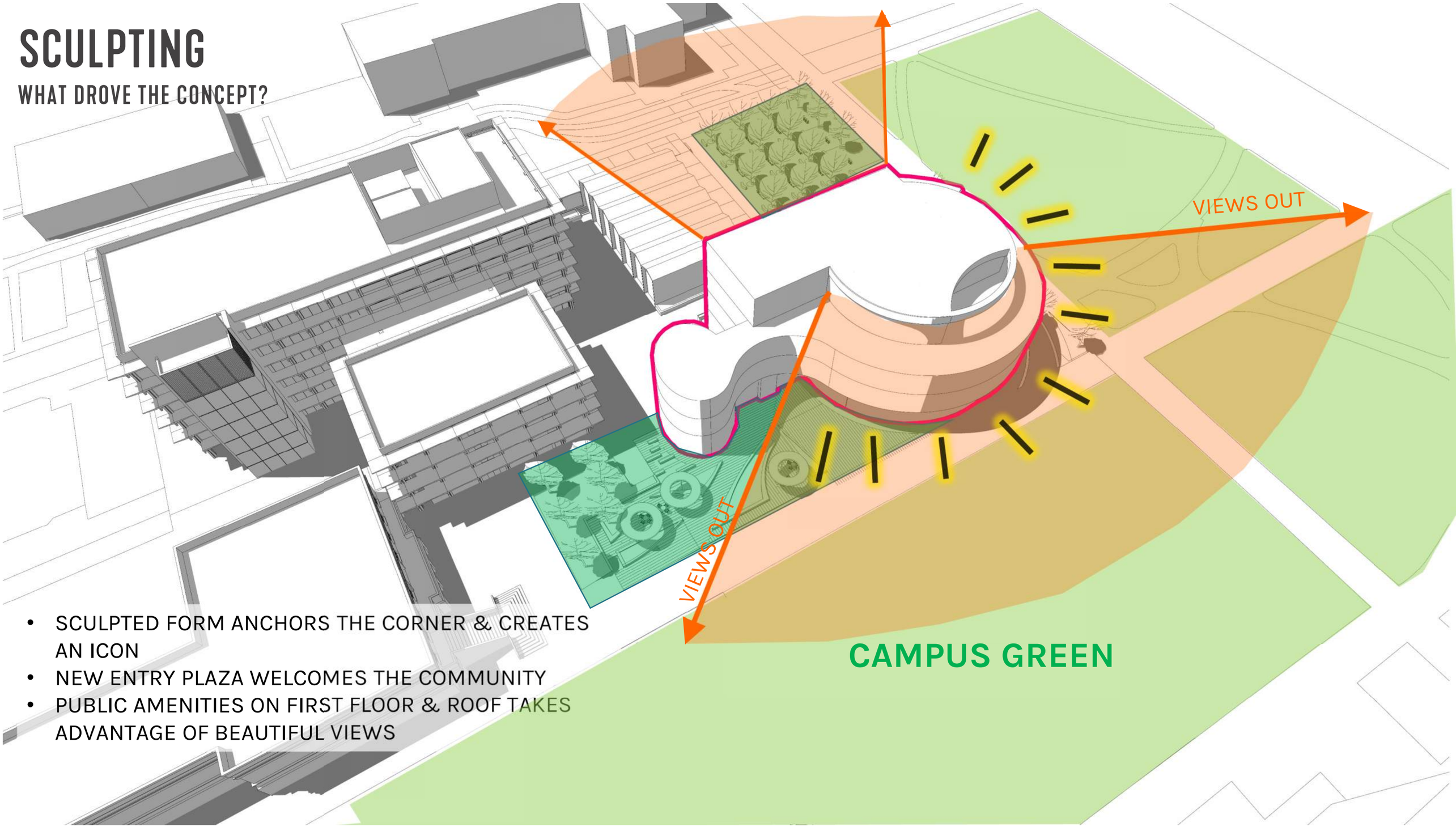
WHAT DROVE THE CONCEPT?

1. LABORATORIES
2. BOARD ROOM / LIBRARY
3. COMMONS
4. CONFERENCE ROOM
5. INTERCONNECTING STAIR
6. ROOFTOP LOUNGE
7. BALCONY
8. OFFICES
9. CAFETERIA



SCULPTING

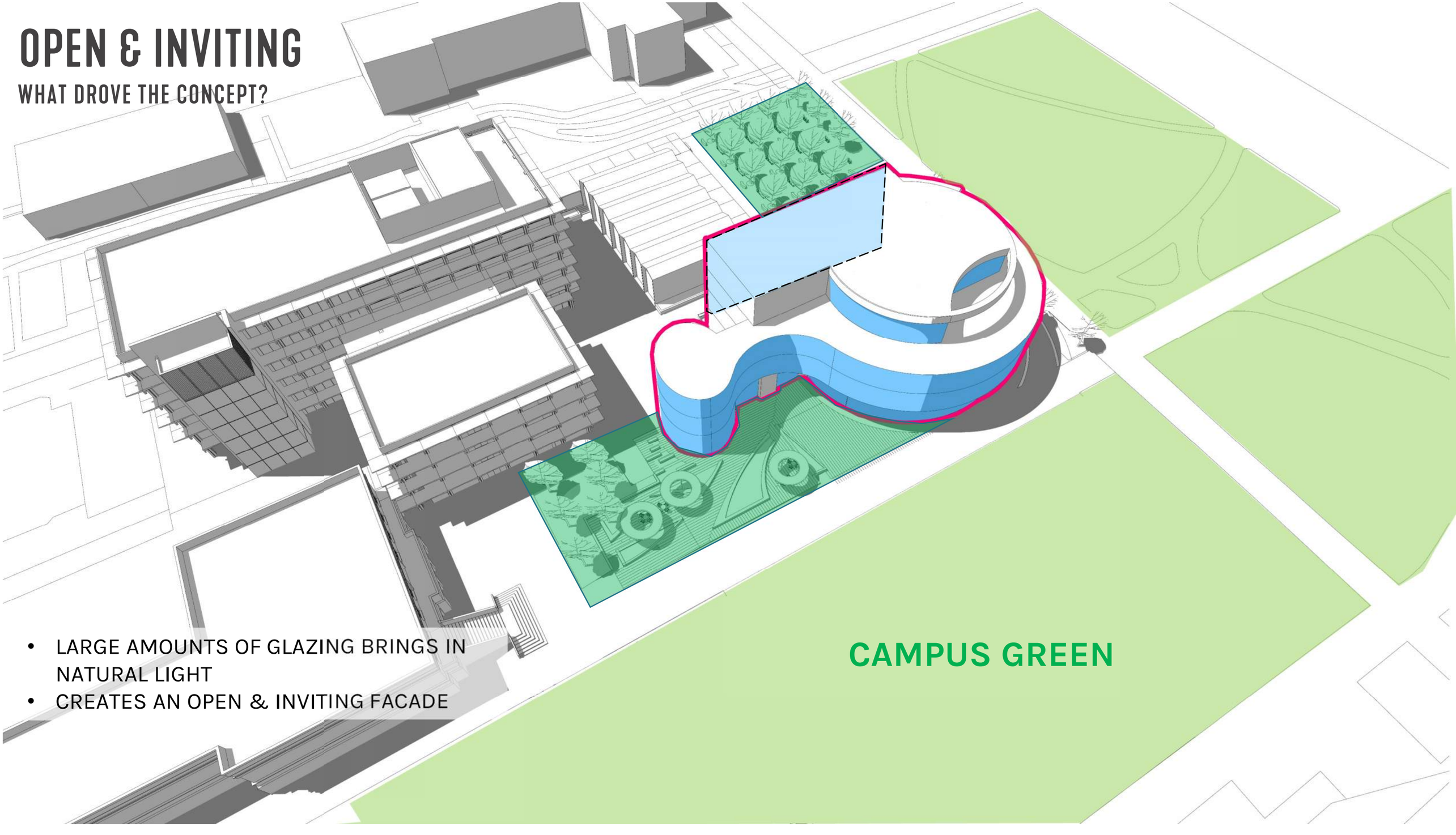
WHAT DROVE THE CONCEPT?



- SCULPTED FORM ANCHORS THE CORNER & CREATES AN ICON
- NEW ENTRY PLAZA WELCOMES THE COMMUNITY
- PUBLIC AMENITIES ON FIRST FLOOR & ROOF TAKES ADVANTAGE OF BEAUTIFUL VIEWS

OPEN & INVITING

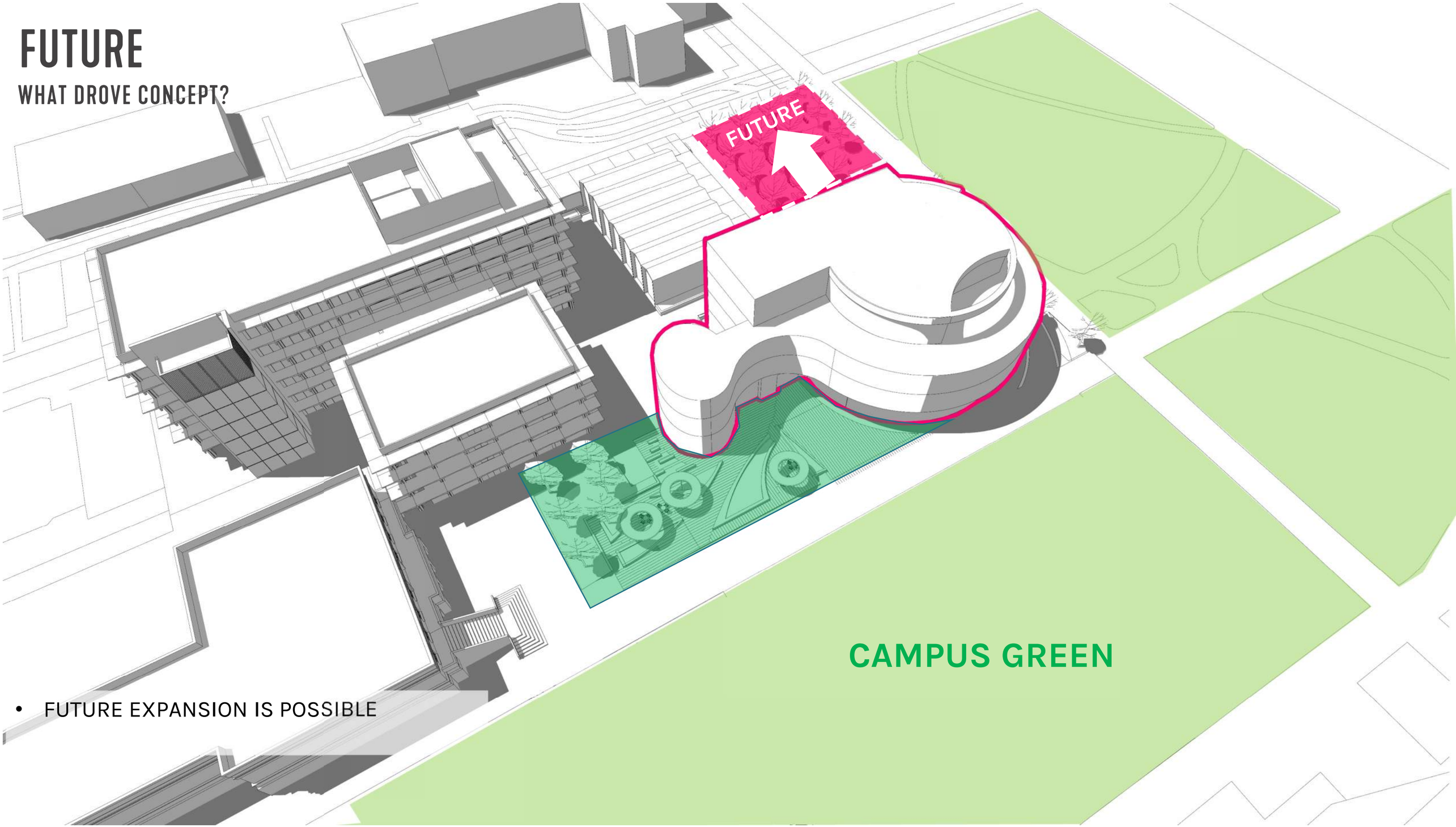
WHAT DROVE THE CONCEPT?



- LARGE AMOUNTS OF GLAZING BRINGS IN NATURAL LIGHT
- CREATES AN OPEN & INVITING FACADE

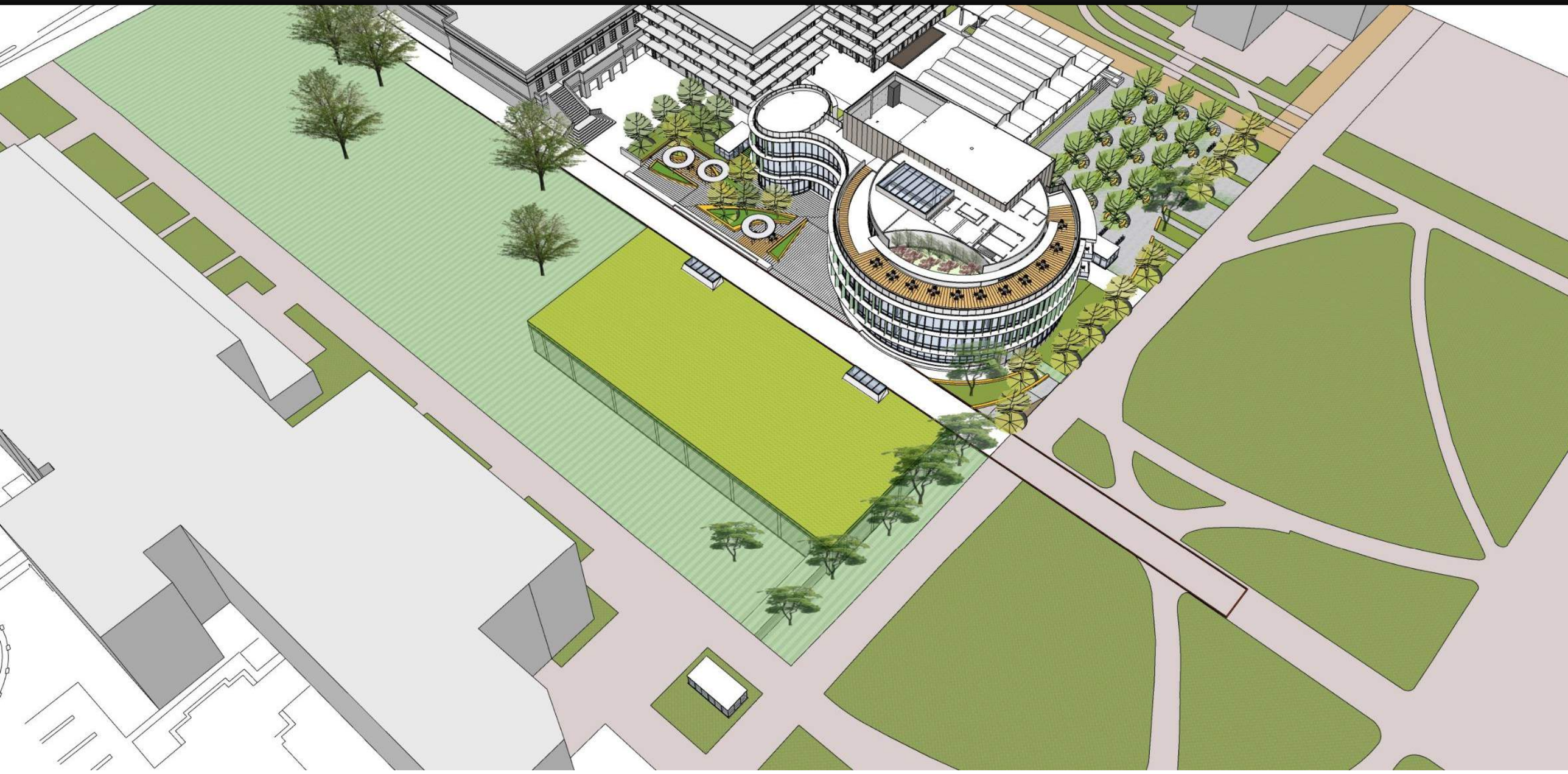
FUTURE

WHAT DROVE CONCEPT?



- FUTURE EXPANSION IS POSSIBLE

LANDSCAPE CONCEPT



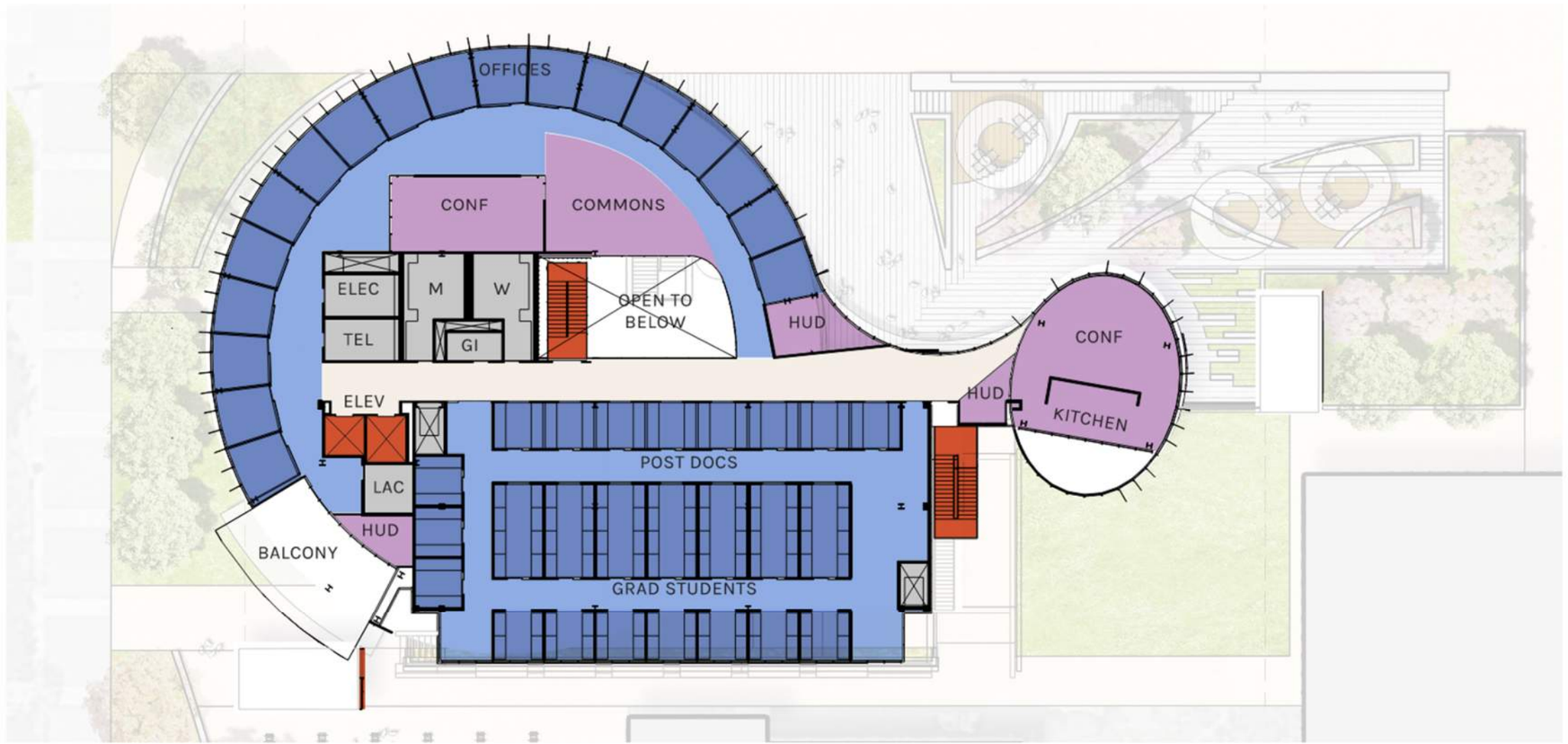
BLOCKING & STACKING - SECTION

RESEARCH LABORATORY LEVEL

BLOCKING & STACKING – LEVEL ONE

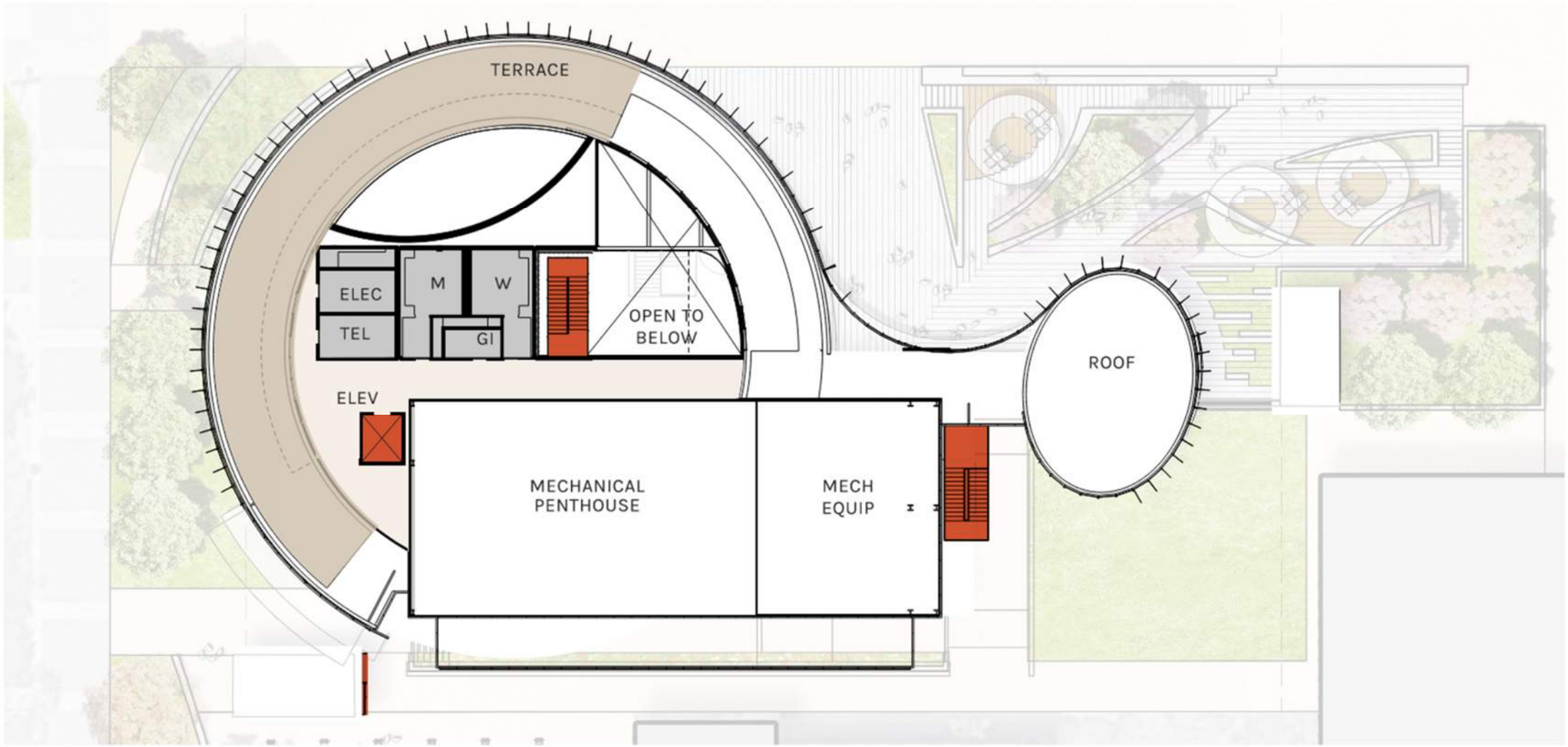
- Administrative Offices Circulation
- Administrative Offices
- Collaboration
- Labs
- Lab Support
- Research Offices Circulation
- Research Offices
- Building Support
- Circulation
- Interior Public Circulation

BLOCKING & STACKING – LEVEL TWO & THREE



- Administrative Offices Circulation
- Administrative Offices
- Collaboration
- Labs
- Lab Support
- Research Offices Circulation
- Research Offices
- Building Support
- Circulation
- Interior Public Circulation

BLOCKING & STACKING – ROOF LEVEL / TERRACE



- Administrative Offices Circulation
- Administrative Offices
- Collaboration
- Labs
- Lab Support
- Research Offices Circulation
- Research Offices
- Building Support
- Circulation
- Interior Public Circulation

MASSING – FINAL DPP CONCEPT

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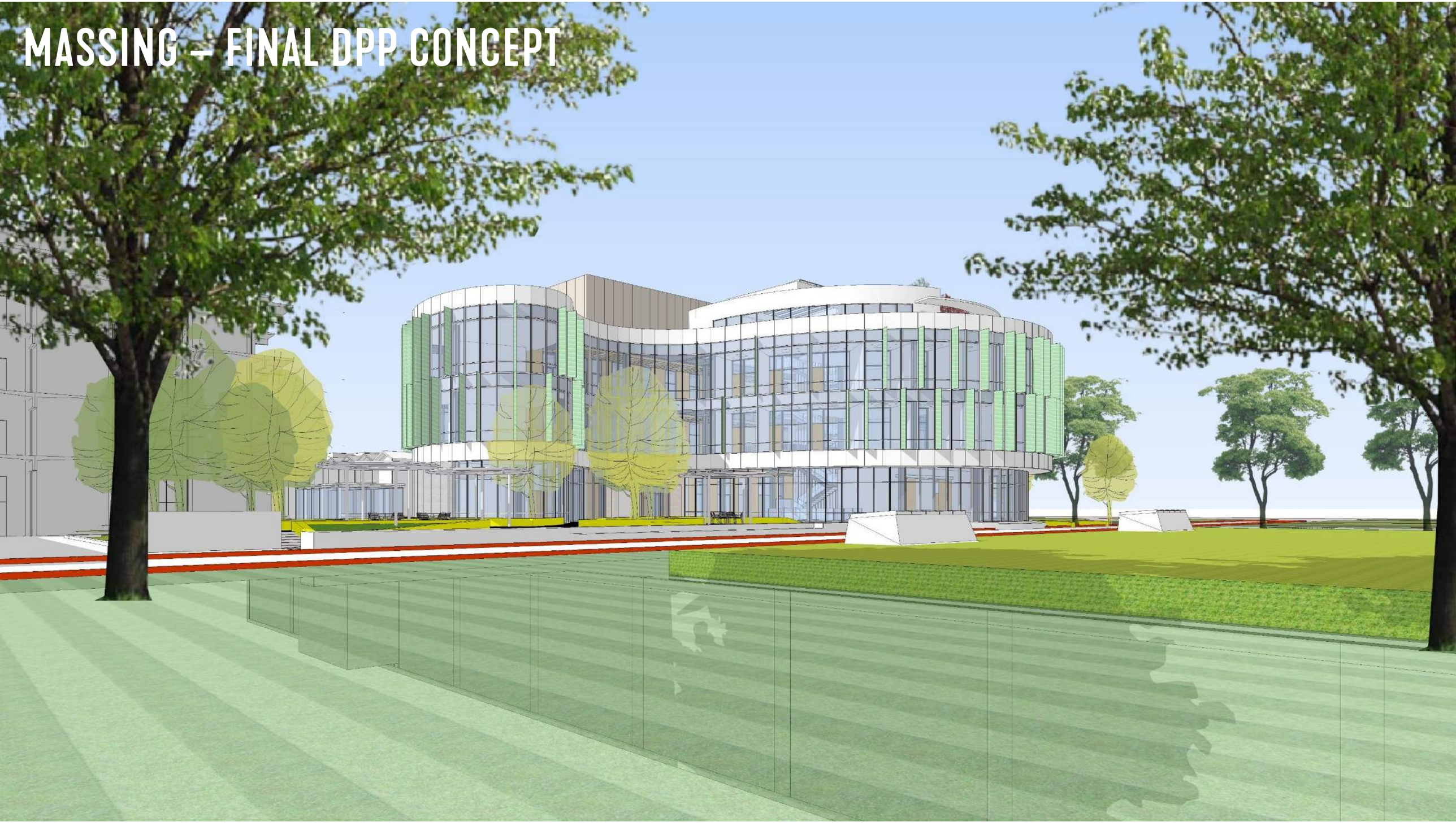
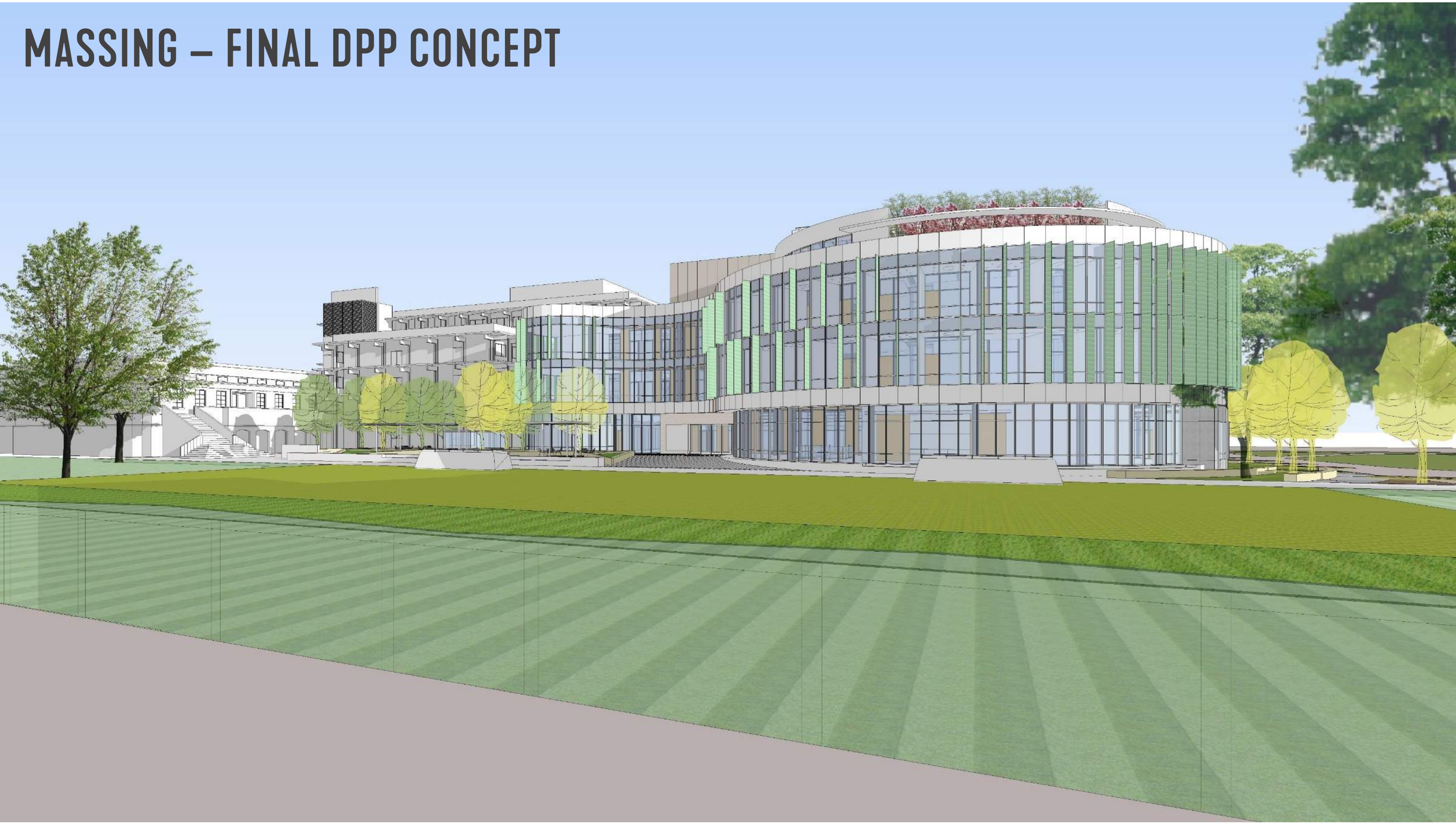


MASSING – FINAL DPP CONCEPT



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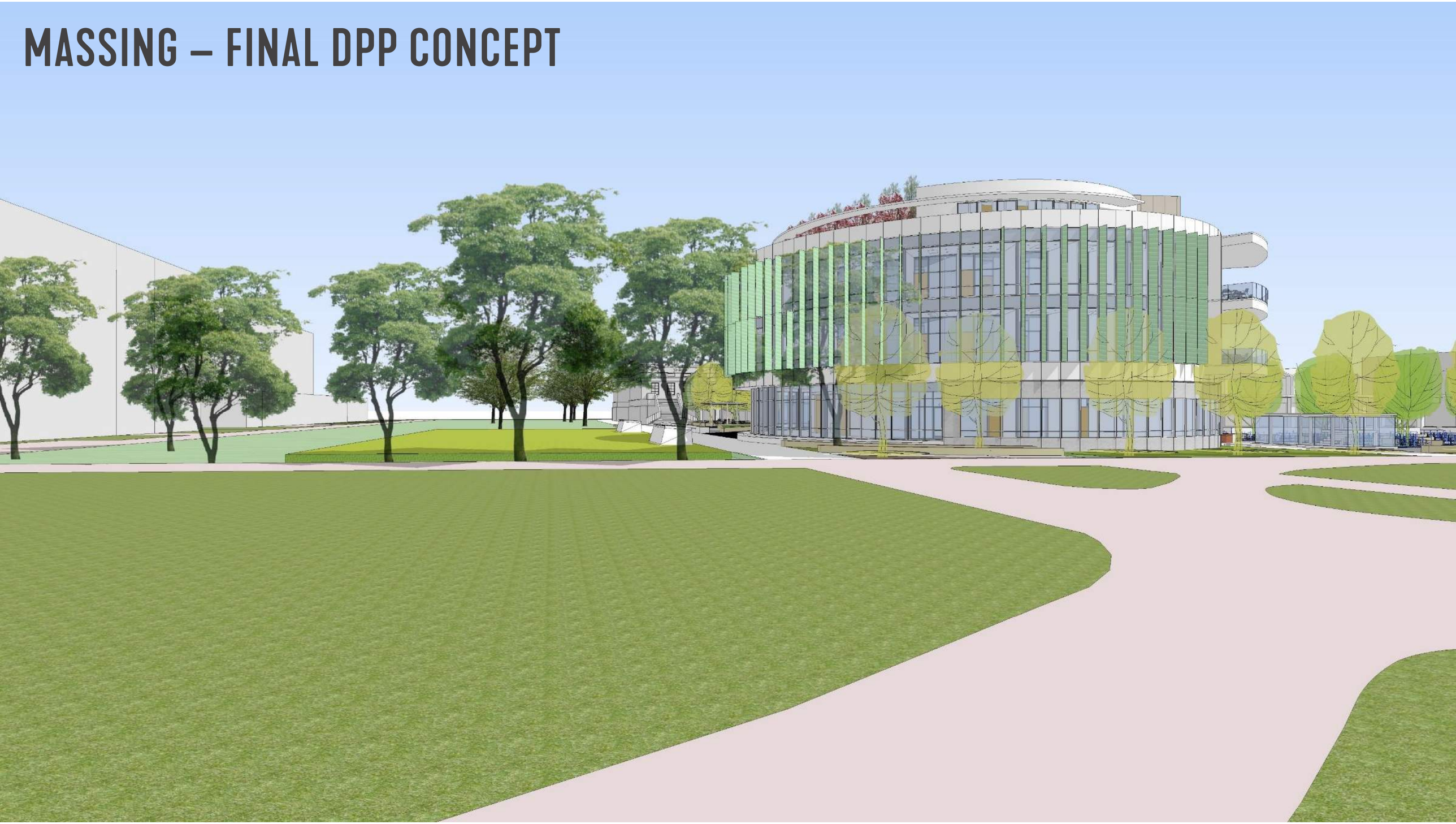
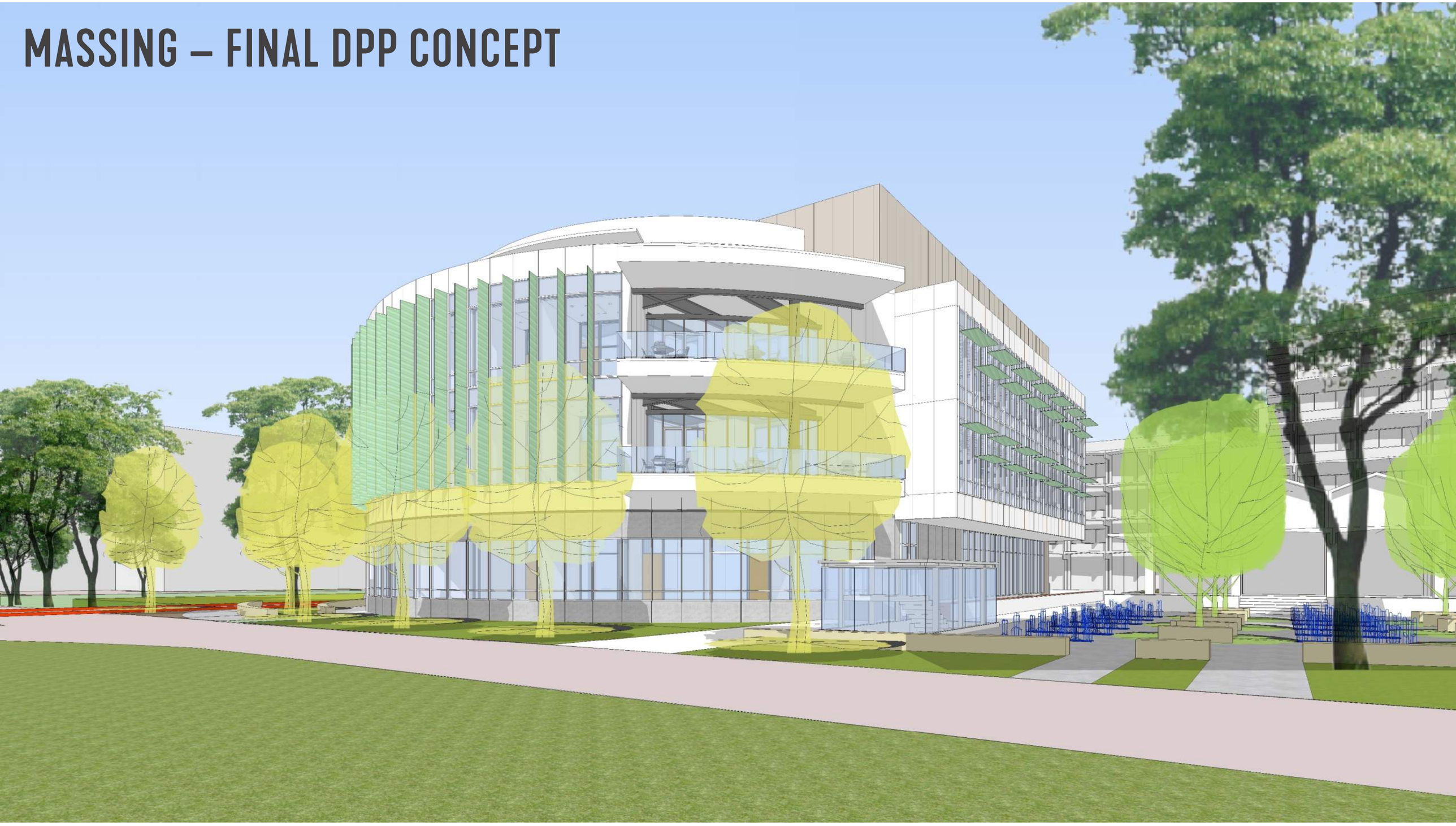
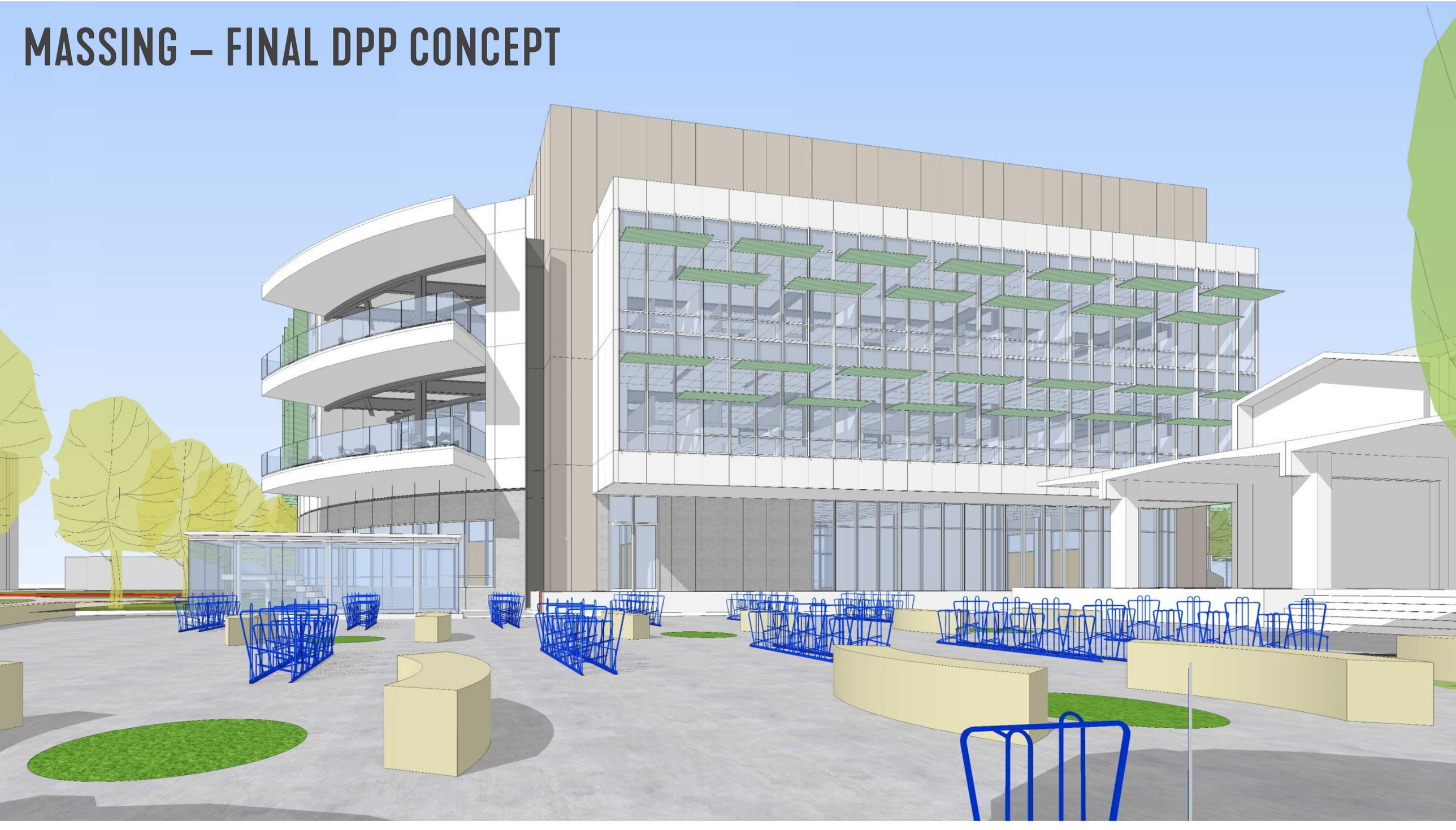


MASSING – FINAL DPP CONCEPT



MASSING – FINAL DPP CONCEPT



QUESTIONS?

SMITHGROUP