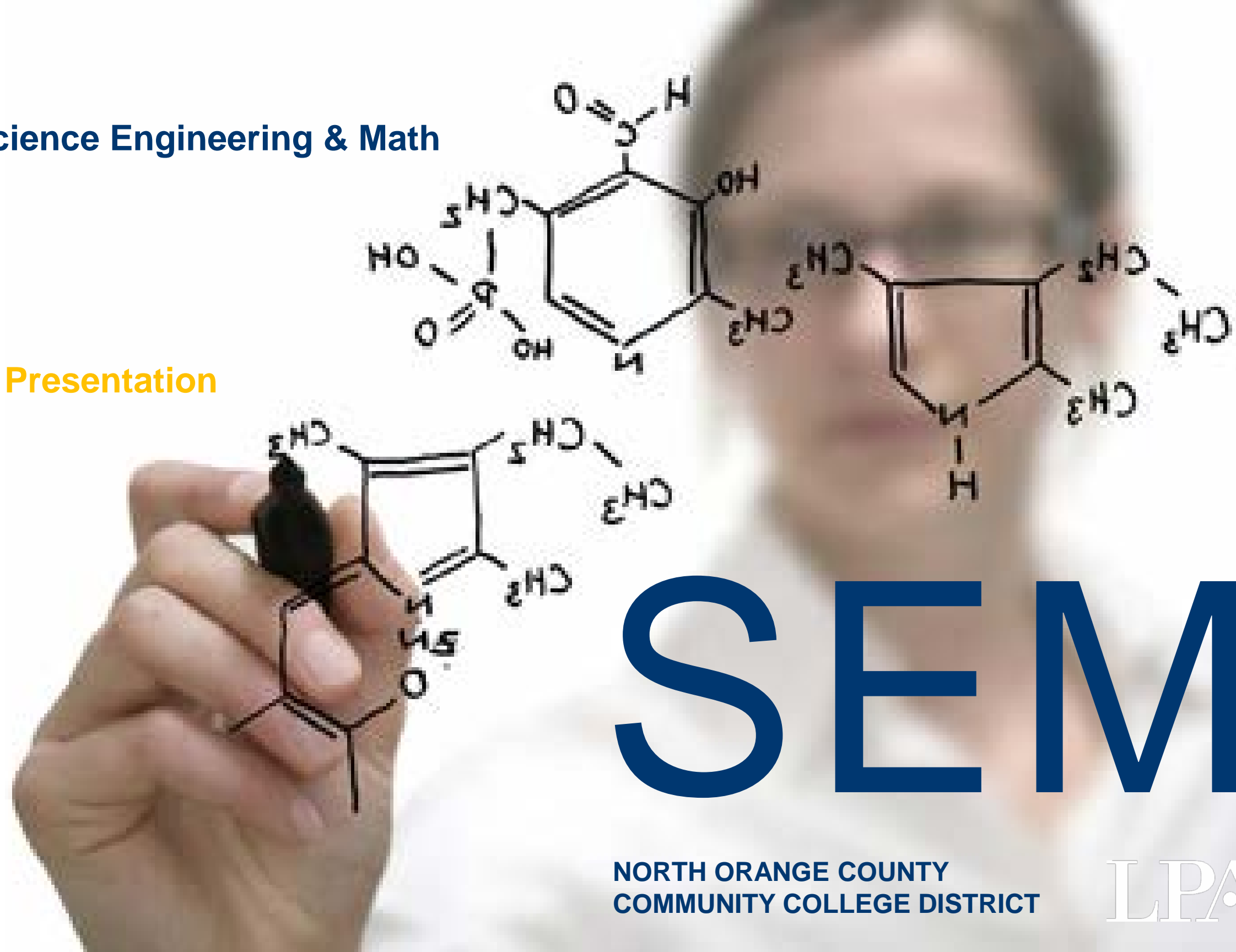


Cypress College Science Engineering & Math

Board Meeting  
Schematic Design Presentation

28 MARCH 2017



# SEM

NORTH ORANGE COUNTY  
COMMUNITY COLLEGE DISTRICT

LPA

**process | program**

# process | program

DESCRIPTION	QTY	ASF	SUBTOTAL	NOTES/ COMMENTS
<b>Section 1.0 Offices + Support</b>				
Waiting Area/Division Office	1	200	200	
Admin. Asst.	1	80	80	
Dean's Asst.	1	80	80	
Dean's Office	1	200	200	
Conference Room	1	250	250	10 seats
Secured Storage	1	150	150	
Offices- Faculty	23	140	3,220	Shared by 2
Offices- Counseling	3	100	300	
Adjunct Faculty Open Office	1	300	300	10-12 shared stations
Workroom	1	300	300	Copy, mail, coffee/break/lounge
Shared Storage	1	300	300	Faculty storage and reference material
			5,380	

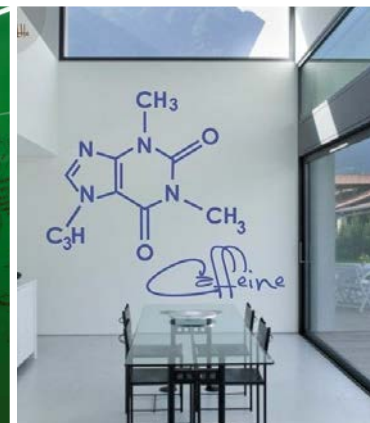
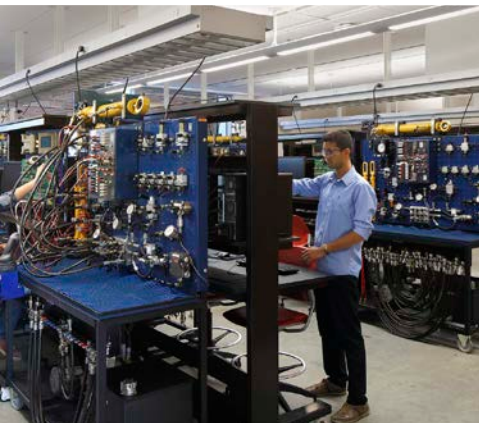
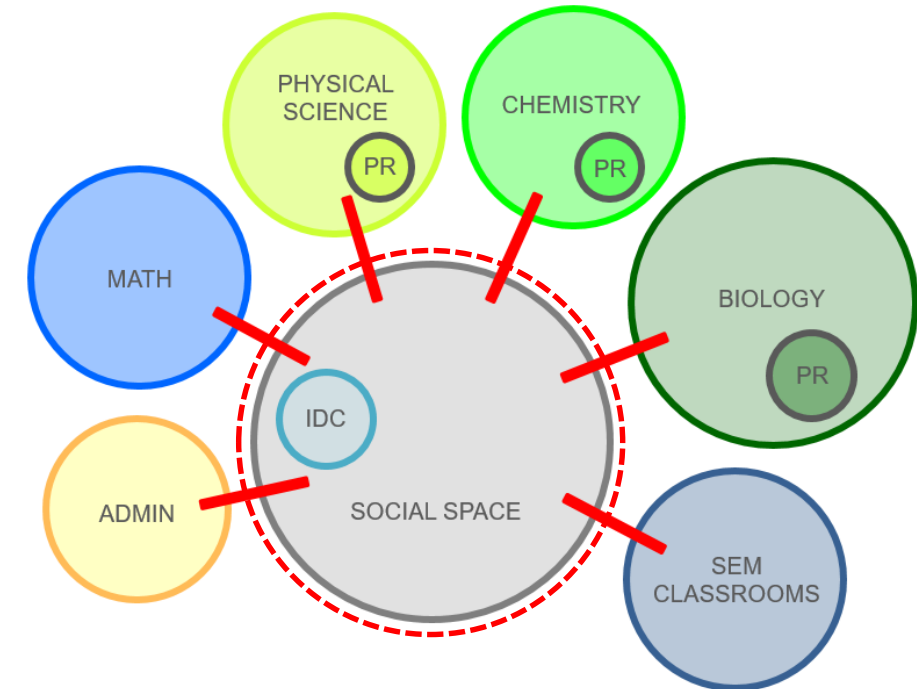
<b>Section 2.0 Classrooms</b>				
Biology	3	1,120	3,360	56 seats
Chemistry	3	1,120	3,360	56 seats
Physics/Physical Science	1	1,120	1,120	56 seats
Immersive Digital Classroom	1	2,000	2,000	
Immersive Digital Control Room	1	120	120	
Math	3	1,060	3,180	53 seats
Math	11	800	8,800	40 seats
			21,940	

<b>Section 3.0 Labs &amp; Support</b>				
<b>Biology</b>				
General Biology	4	1,320	5,280	28 stations
Physiology	1	1,320	1,320	28 stations
Anatomy	1	1,320	1,320	28 stations
Anatomy & Physiology	1	1,320	1,320	28 stations
Microbiology	1	1,320	1,320	28 stations
Organismal & Aquatics	1	1,320	1,320	28 stations, includes aquatics prep
Molecular	1	1,320	1,320	28 stations
Central Prep/Storage	1	2,640	2,640	
Microbiology/Autoclave & Prep	1	660	660	
Dissection Prep/Waste	1	330	330	
Organismal & Aquatics Support	1	330	330	
Incinerator Equipment	1	200	200	
Crematory Workroom	1	500	500	
Crematory Observation Room	1	350	350	Multi-purpose meeting room

DESCRIPTION	QTY	ASF	SUBTOTAL	NOTES/ COMMENTS
<b>Chemistry</b>				
Intro Chem	2	1,320	2,640	28 stations
Intro Chem (101)	1	1,320	1,320	28 stations
General Chem	2	1,320	2,640	26 stations
Organic Chem	1	1,650	1,650	28 stations
Central Prep/Storage	1	1,980	1,980	
Organic Chem Instrument Room	1	440	440	

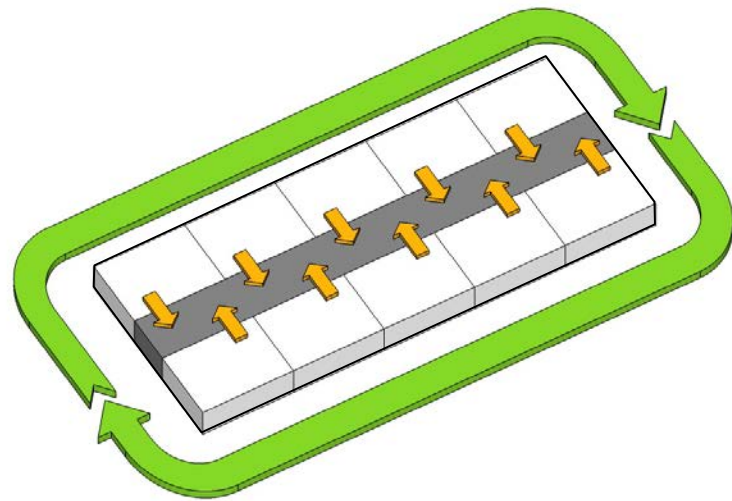
<b>Physical Science</b>				
Intro	1	1,320	1,320	28 stations
Advanced Physics for Mechanics	1	1,320	1,320	28 stations
Advanced Physics for Electricity + Optics	1	1,320	1,320	28 stations
Astronomy & Computer Lab	1	1,320	1,320	28 stations
Engineering	1	1,650	1,650	36 stations
Central Prep/Storage	1	1,650	1,650	
Astronomy Storage	1	330	330	
Geology	1	1,320	1,320	36 stations
Oceanography	1	1,650	1,650	36 stations
Central Prep/Storage	1	660	660	
			41,420	

<b>Program Total</b>			<b>68,740</b>	<b>Total ASF (Assignab Sq.Ft.)</b>
			<b>106,023</b>	<b>Total GSF (Gross Sq.Ft.) @ 65% Eff.</b>



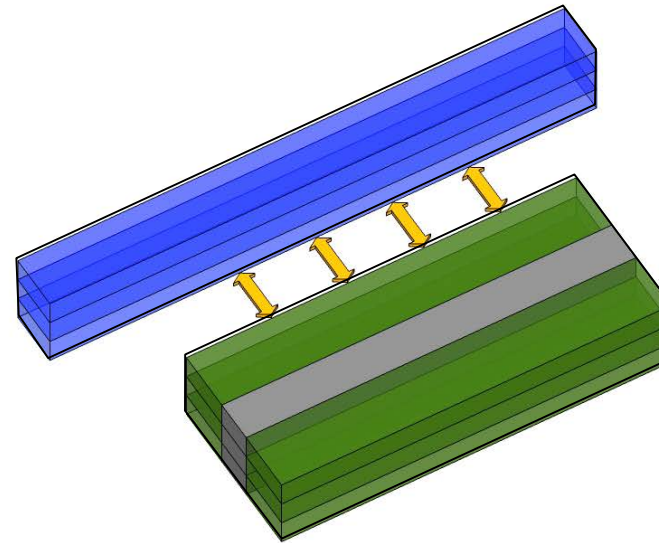
# process | three desired adjacency concepts

1



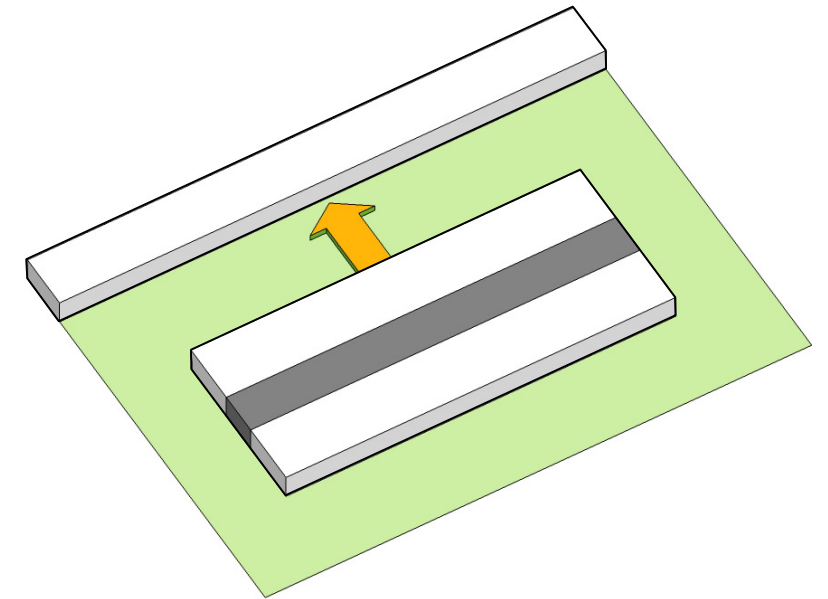
**DESIRED LAB ADJACENCY**  
CENTRALIZED PREP ROOM = EFFICIENT SERVICES  
SHARED RESOURCES

2



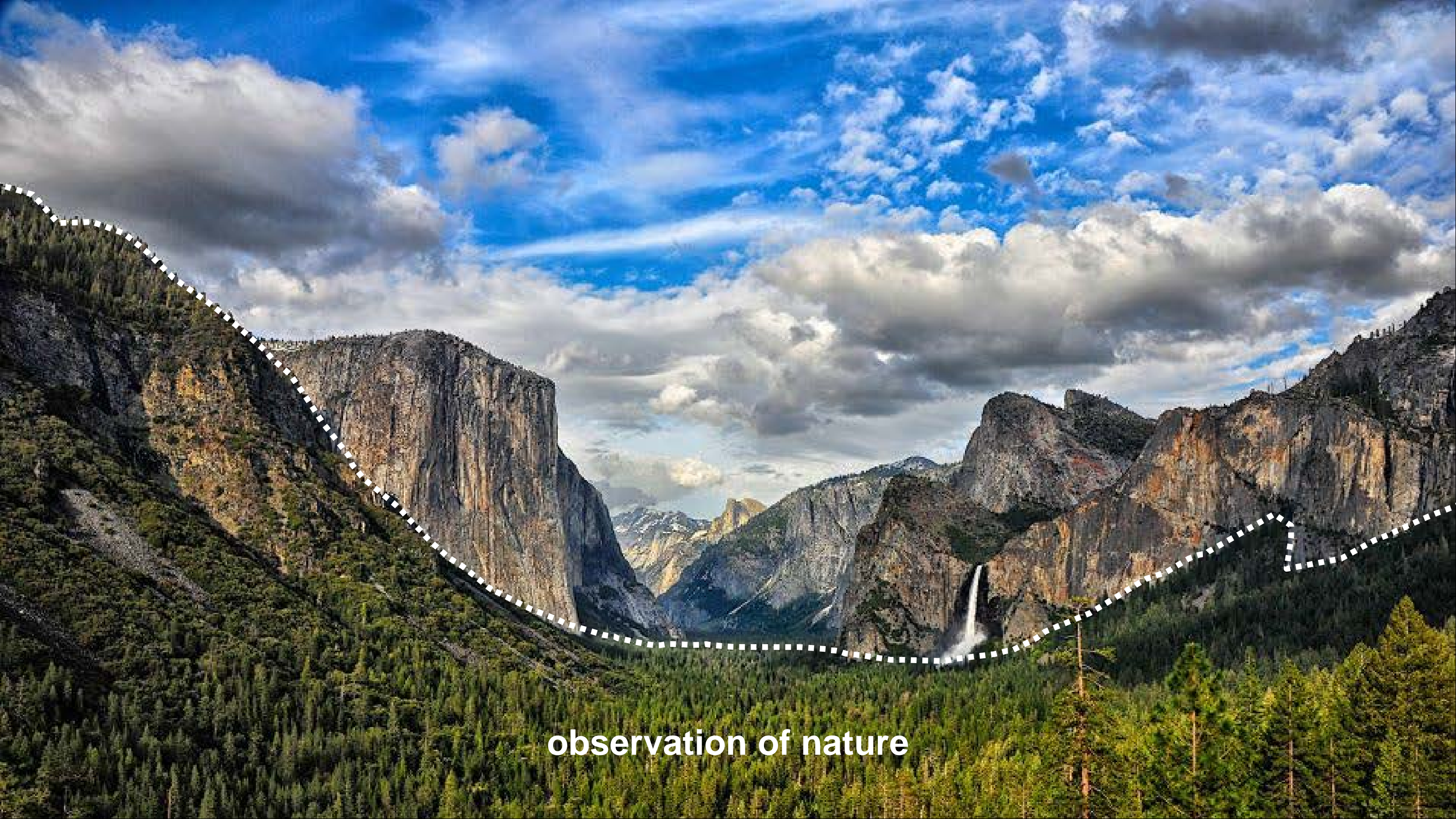
**VERTICAL REPETITION OF ADJACENCIES**  
ONE DEPARTMENT PER FLOOR  
DIRECT ADJACENCY TO CLASSROOMS ON EACH FLOOR

3



**EXTERIOR CIRCULATION**  
INTEGRATION OF SOCIAL SPACES  
EXPANSIVE OUTDOOR SPACES

**inspiration | concept**

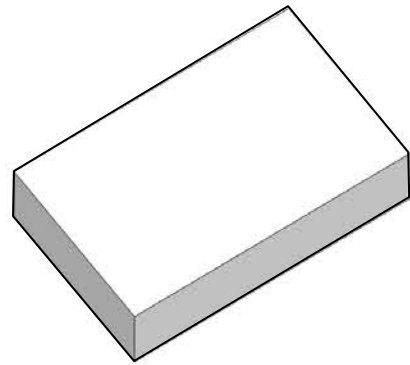


observation of nature

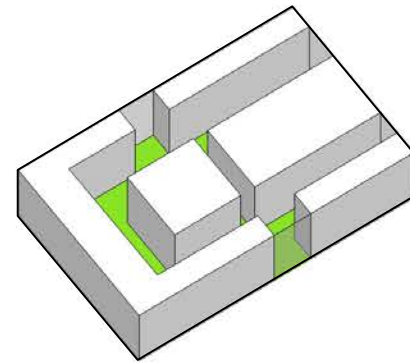
inorganic | organic



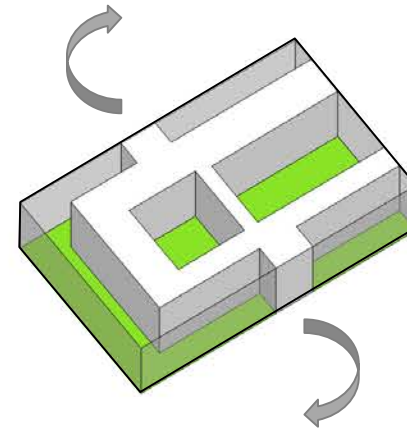
# inspiration | learning environments re-imagined



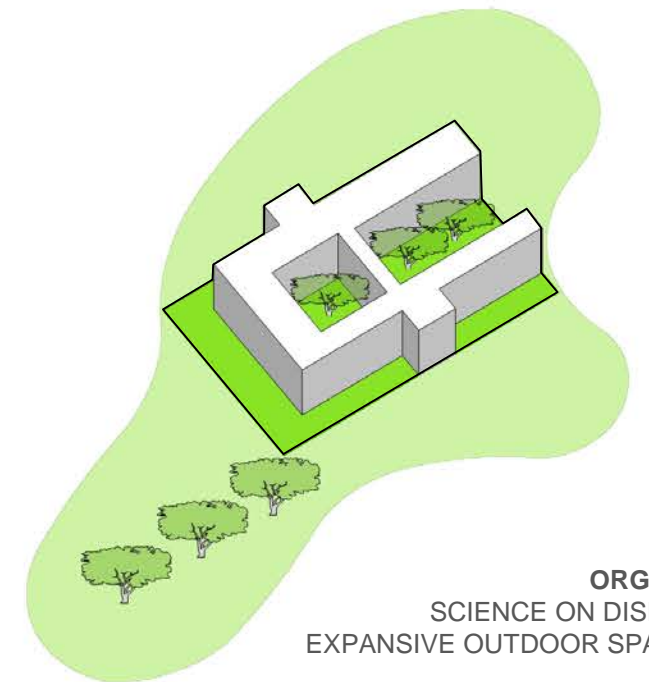
**BUILDING BLOCK**  
TYPICAL CYPRESS BUILDING EXTERIOR  
MAN – MADE  
INORGANIC



**INTERIOR CIRCULATION**  
EXISTING SEM BUILDING CIRCULATION



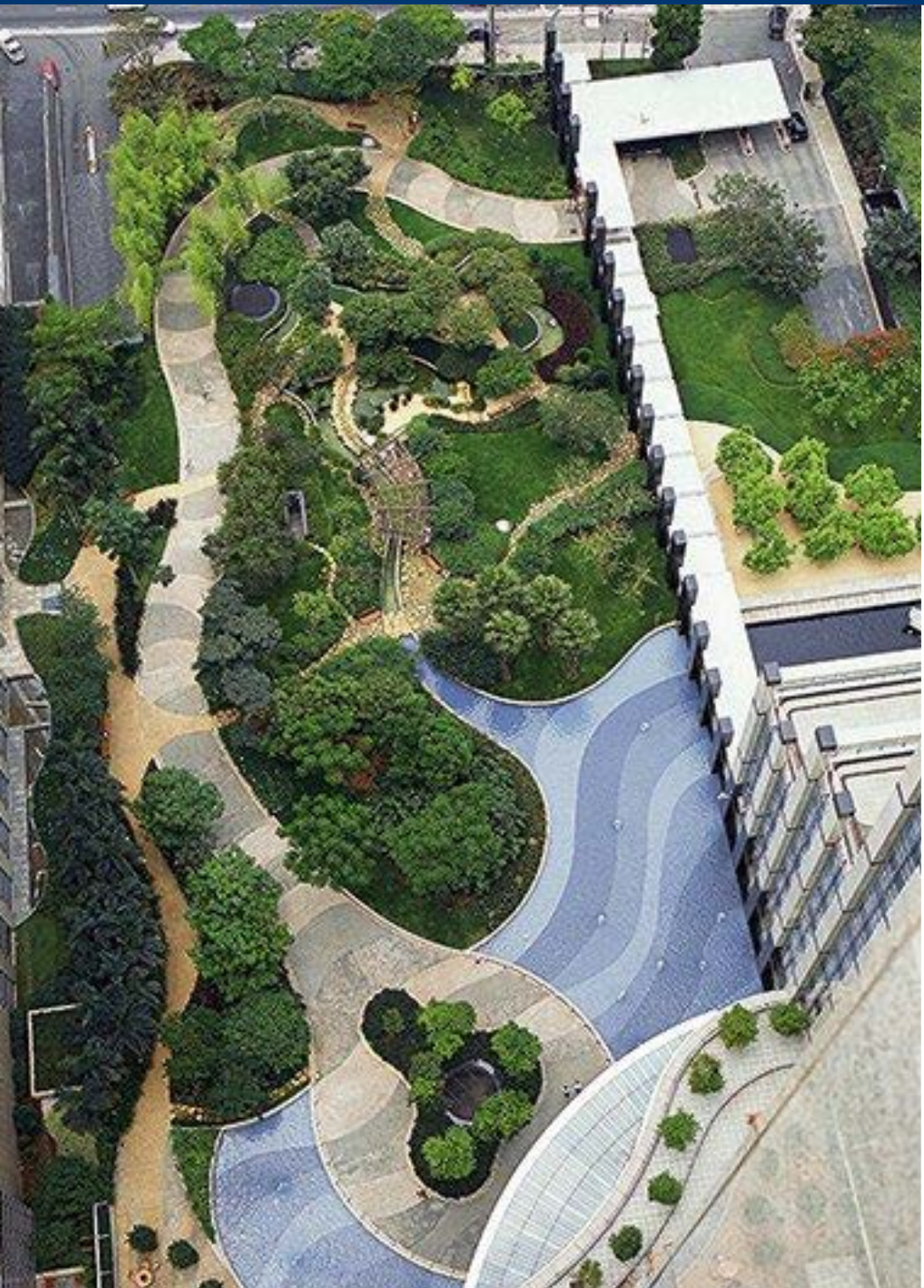
**INSIDE OUT**  
PROPOSED SEM BUILDING CIRCULATION



**ORGANIC**  
SCIENCE ON DISPLAY  
EXPANSIVE OUTDOOR SPACES

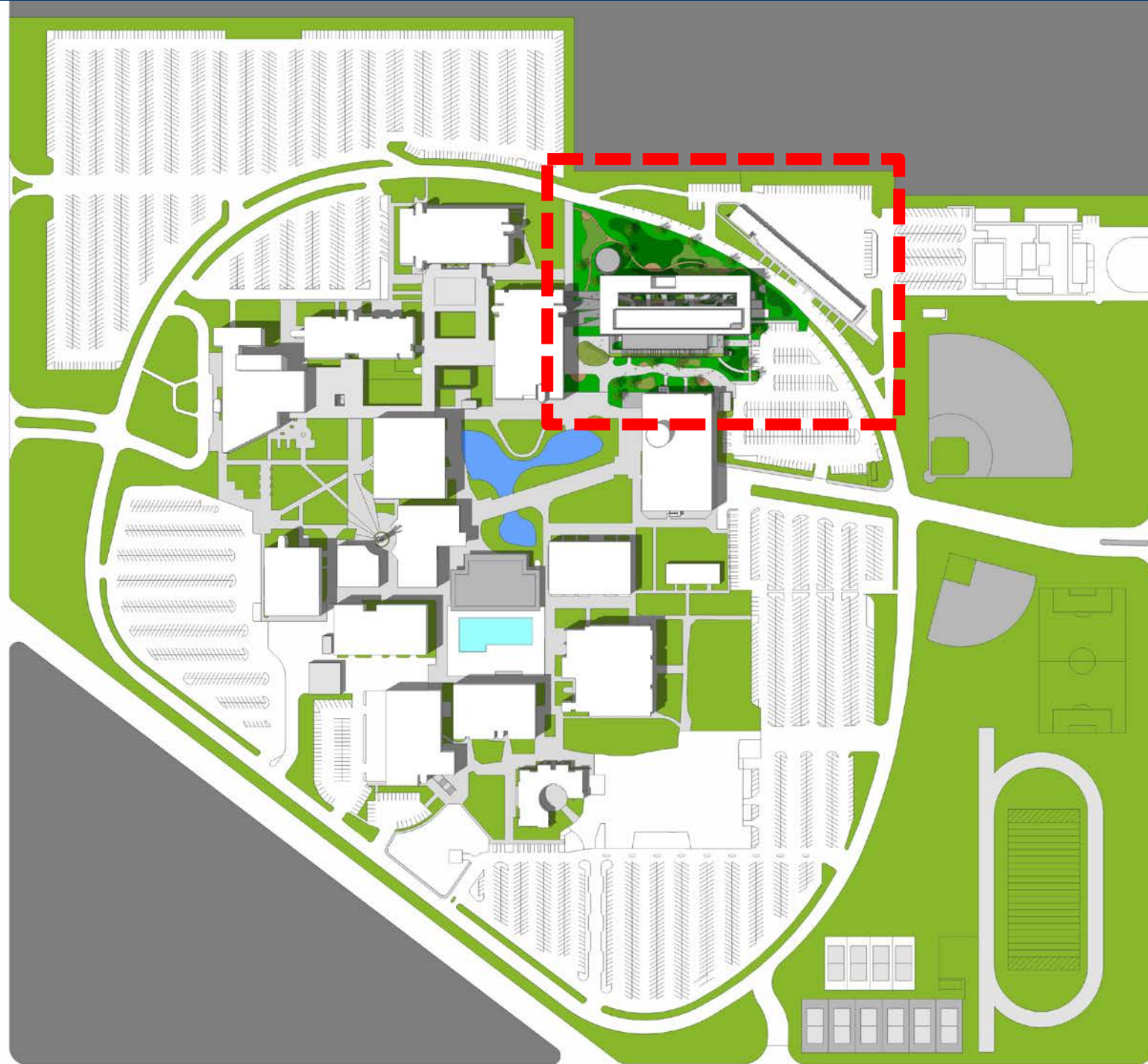


# inspiration | discovery courtyard

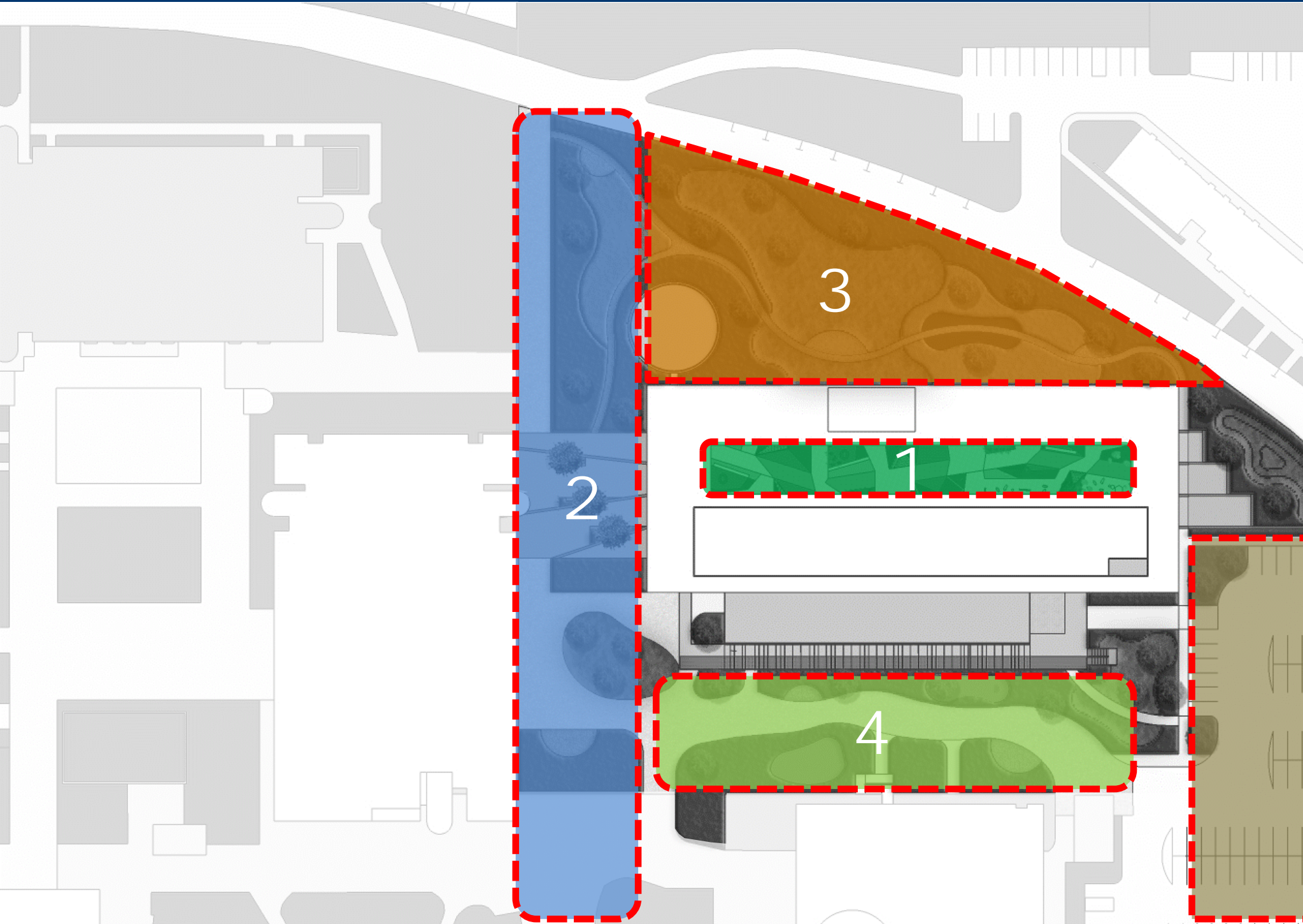


**approach | landscape concept**

# zoom out | campus building



# zoom out | landscape zones



1

## GARDEN COURTYARD

The courtyard will be the center of activity and the landscape zone that animates the student experience at the SEM

2

## ARRIVAL PLAZA (& IDC)

The crossroads of the project, where pedestrians will arrive and enter the building, with flexible paving and landscape

3

## NATIVE & STORMWATER TREATMENT

Native plantings will highlight this area for wildlife habitat and ecological studies. The area will also capture and treat storm water.

4

## PASSAGE

This areas will be made up of social spaces and pedestrian routes while anchoring the fire access lane

5

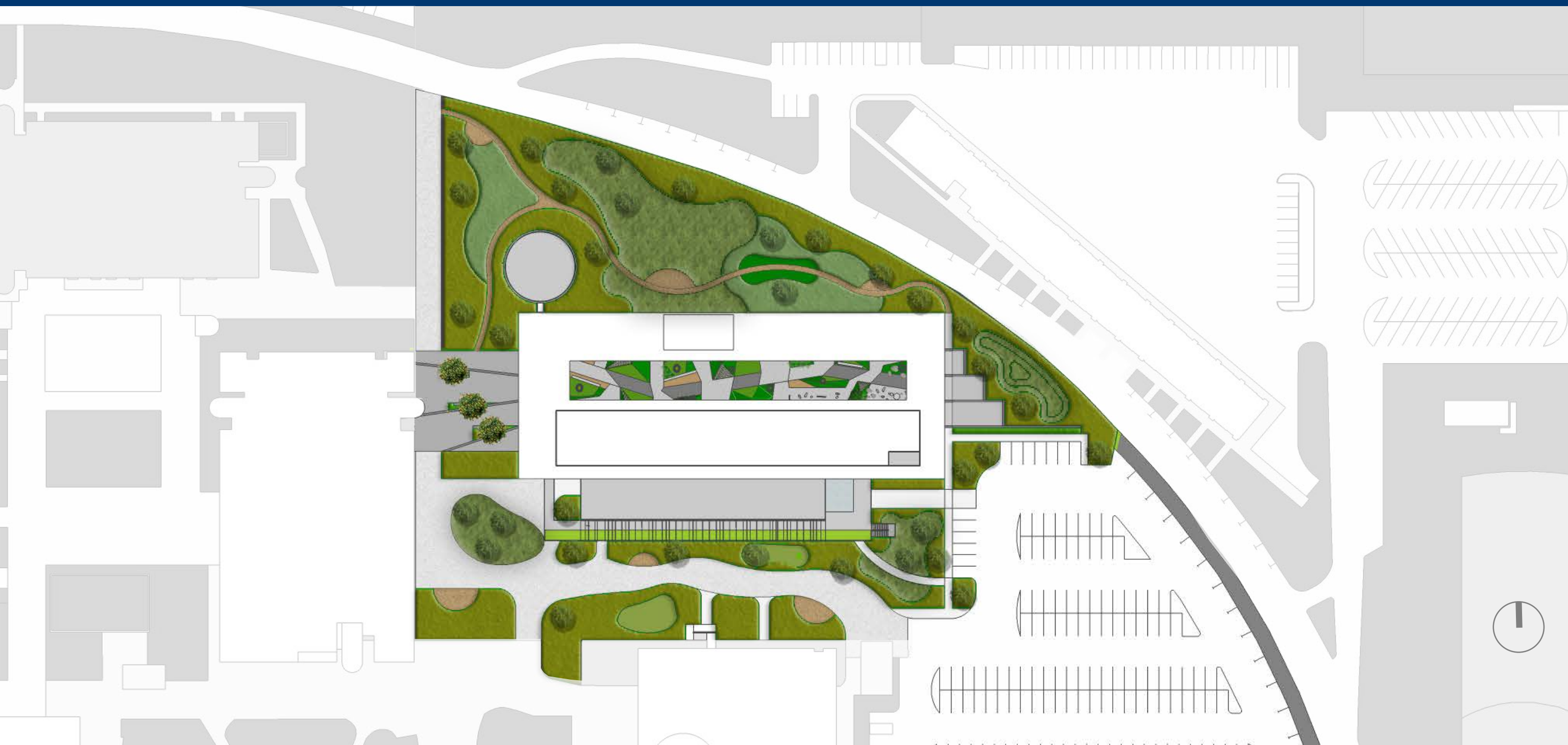
## PARKING

Reconfiguring of existing parking area to provide for building placement and service access.

# zoom out | landscape plan

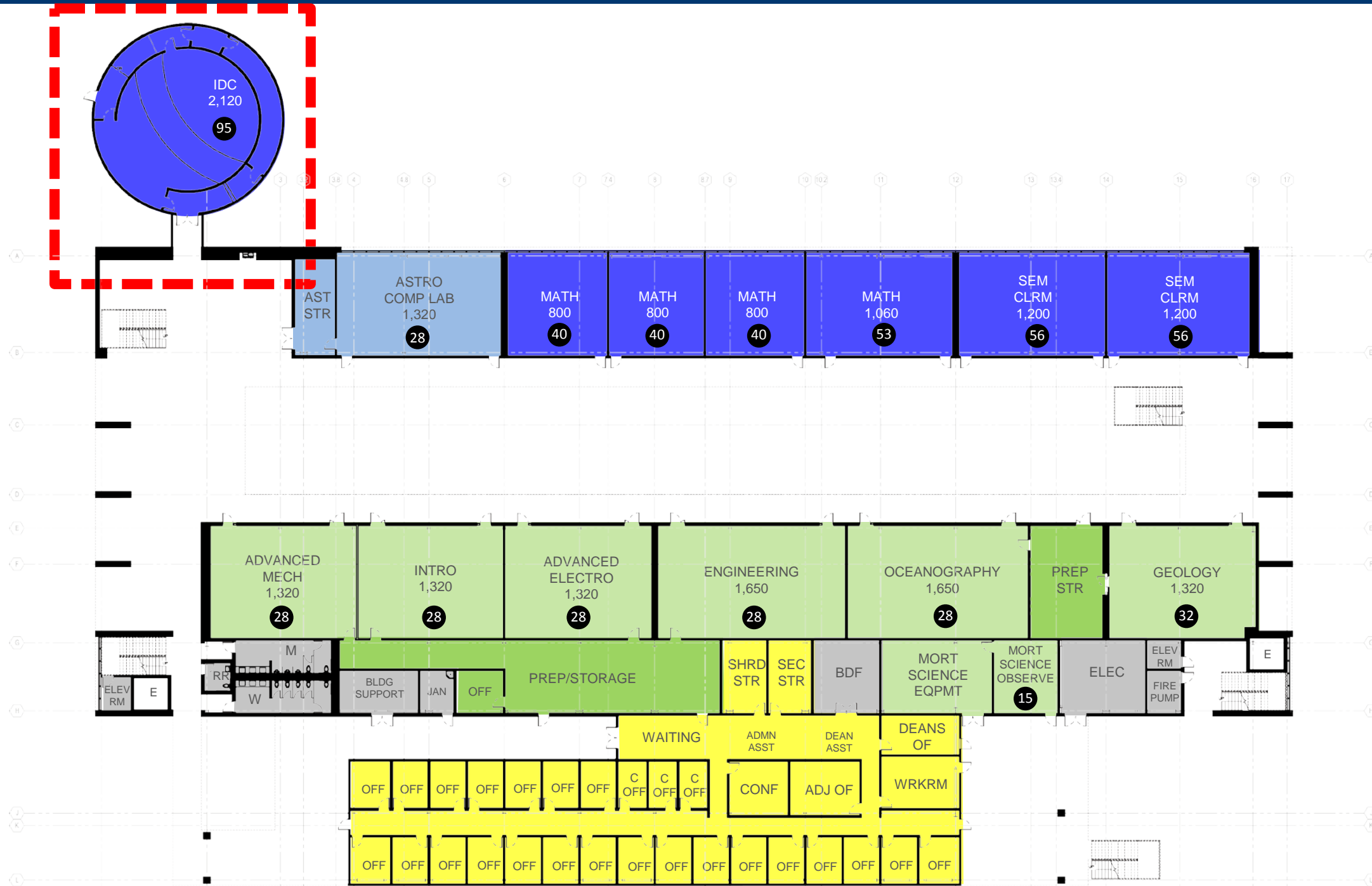




# zoom out | landscape plan



**schematic design | floor plans**

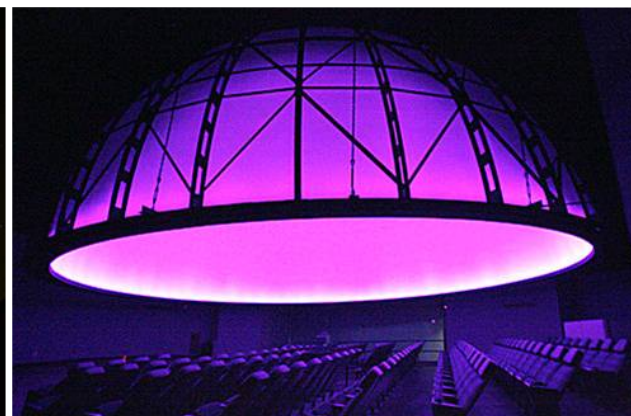
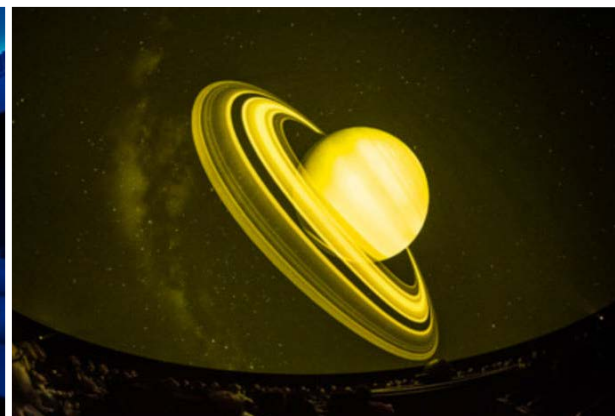
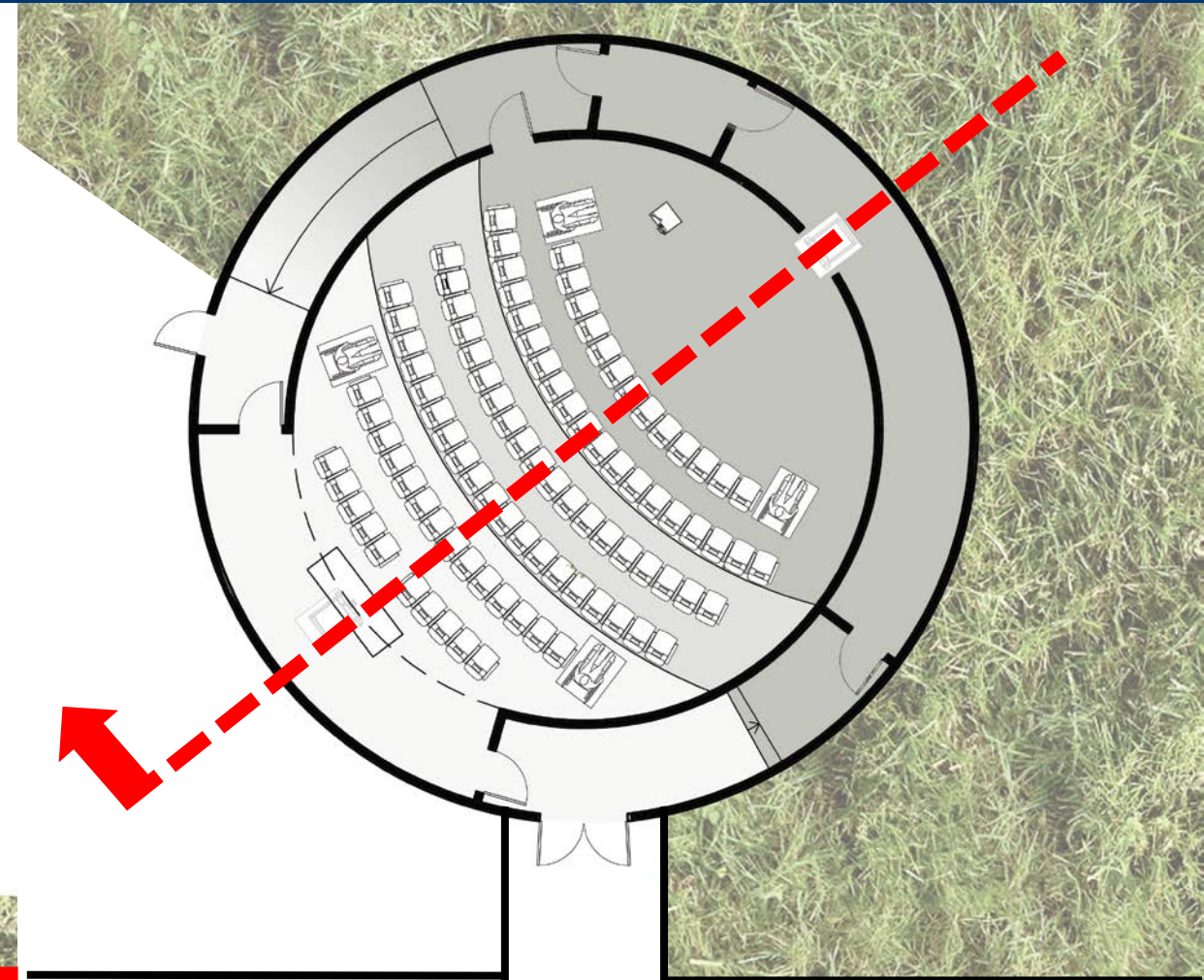
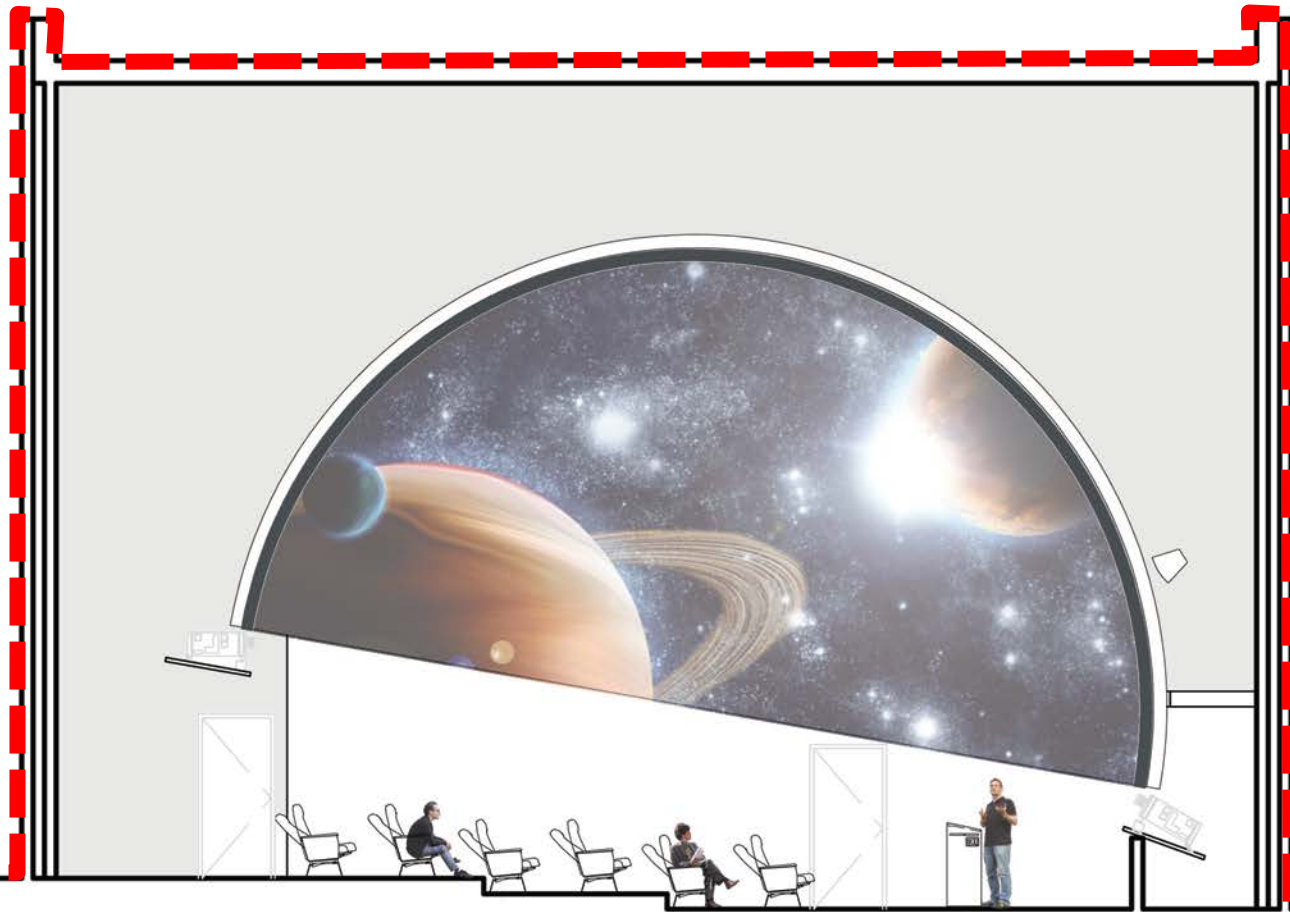
# plan | ground floor



-  SEATING CAPACITY
-  CLASSROOMS / IDC
-  ASTRONOMY
-  PHYSICAL SCIENCE
-  LAB SUPPORT
-  ADMIN OFFICE
-  BUILDING SUPPORT
- 










# architecture | IDC

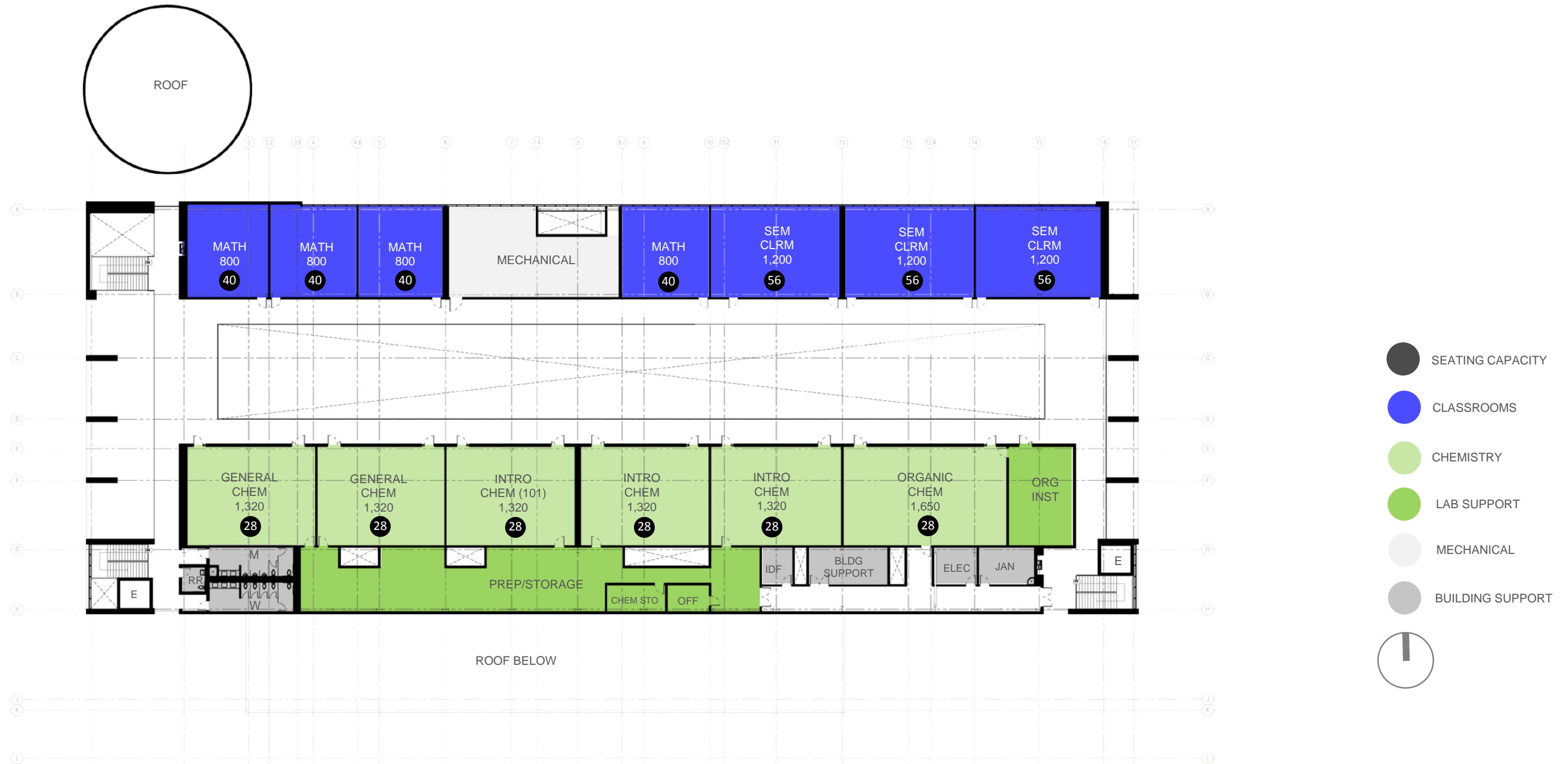


# plan | second floor



-  SEATING CAPACITY
-  CLASSROOMS / IDC
-  GREENHOUSE
-  BIOLOGY
-  LAB SUPPORT
-  BUILDING SUPPORT
- 

# plan | third floor

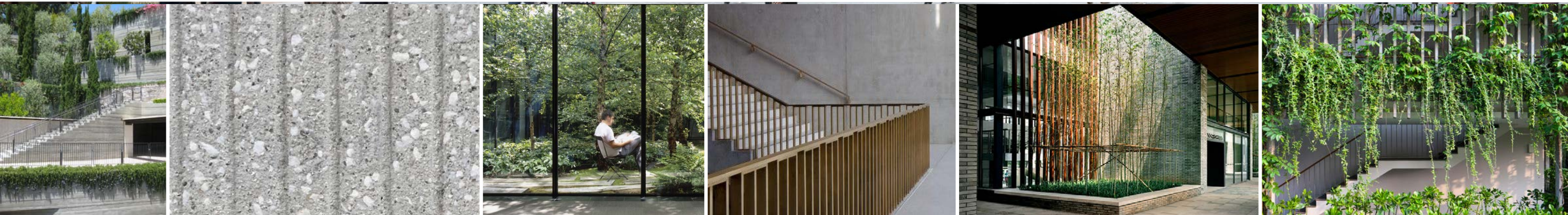


**approach | architectural concept**

# architecture | campus context



# architecture | exterior finishes



architecture | view looking into the courtyard from the east



architecture | courtyard view





# architecture | view from loop road

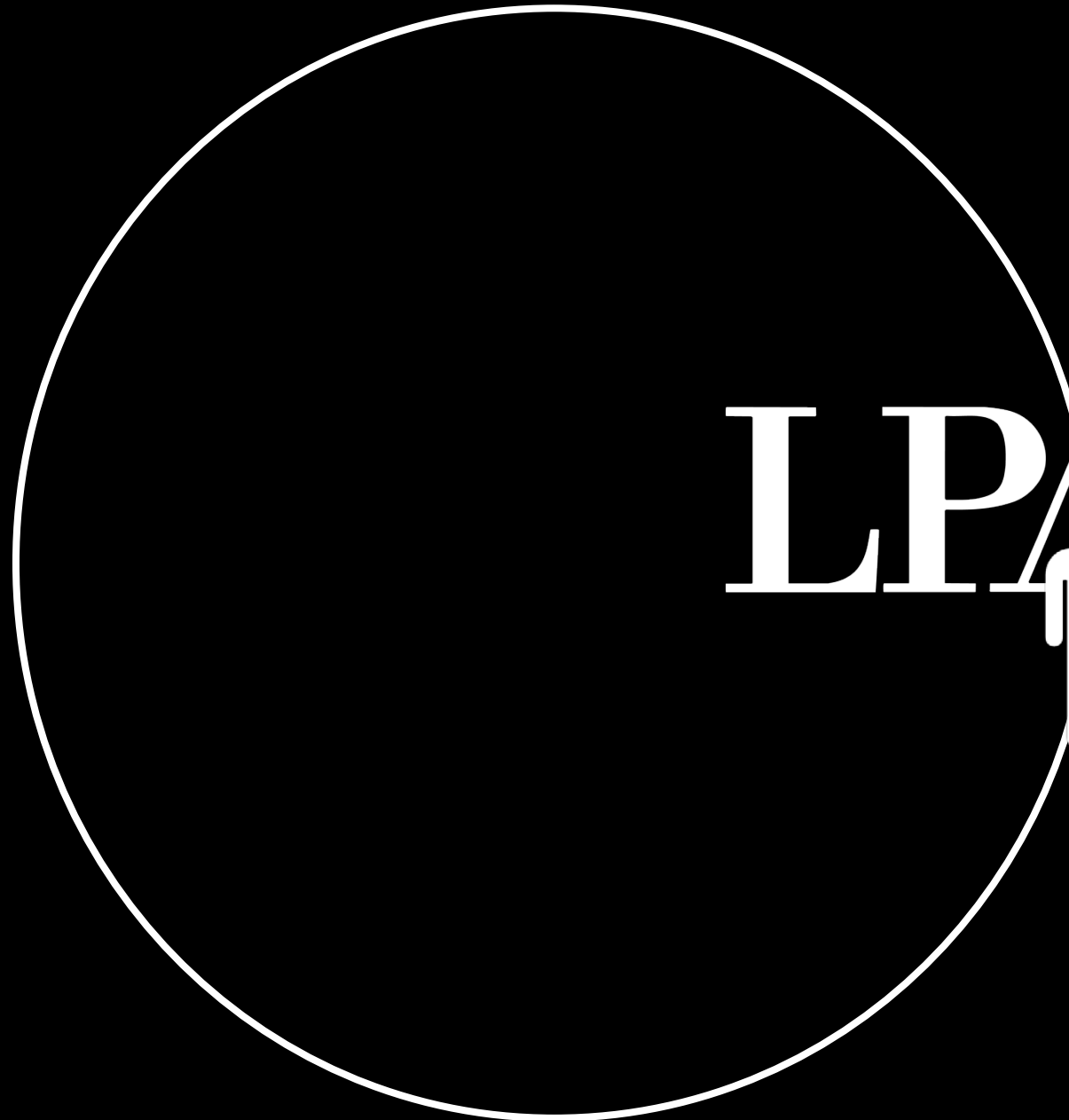


architecture | view from loop road









LPA



thank you!