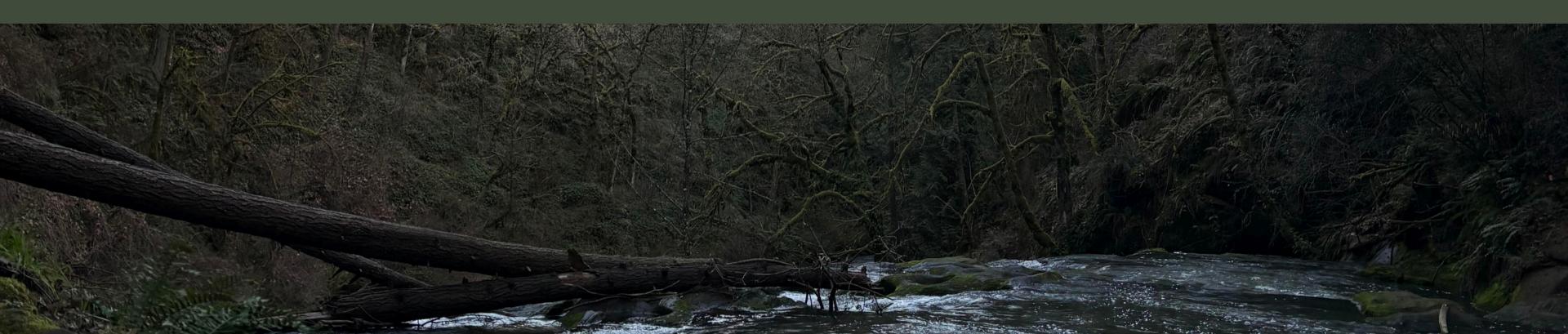
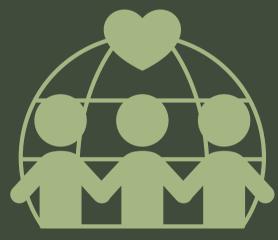




E.C.O. HIGH ENVIRONMENT, COMMUNITY, OPPORTUNITY





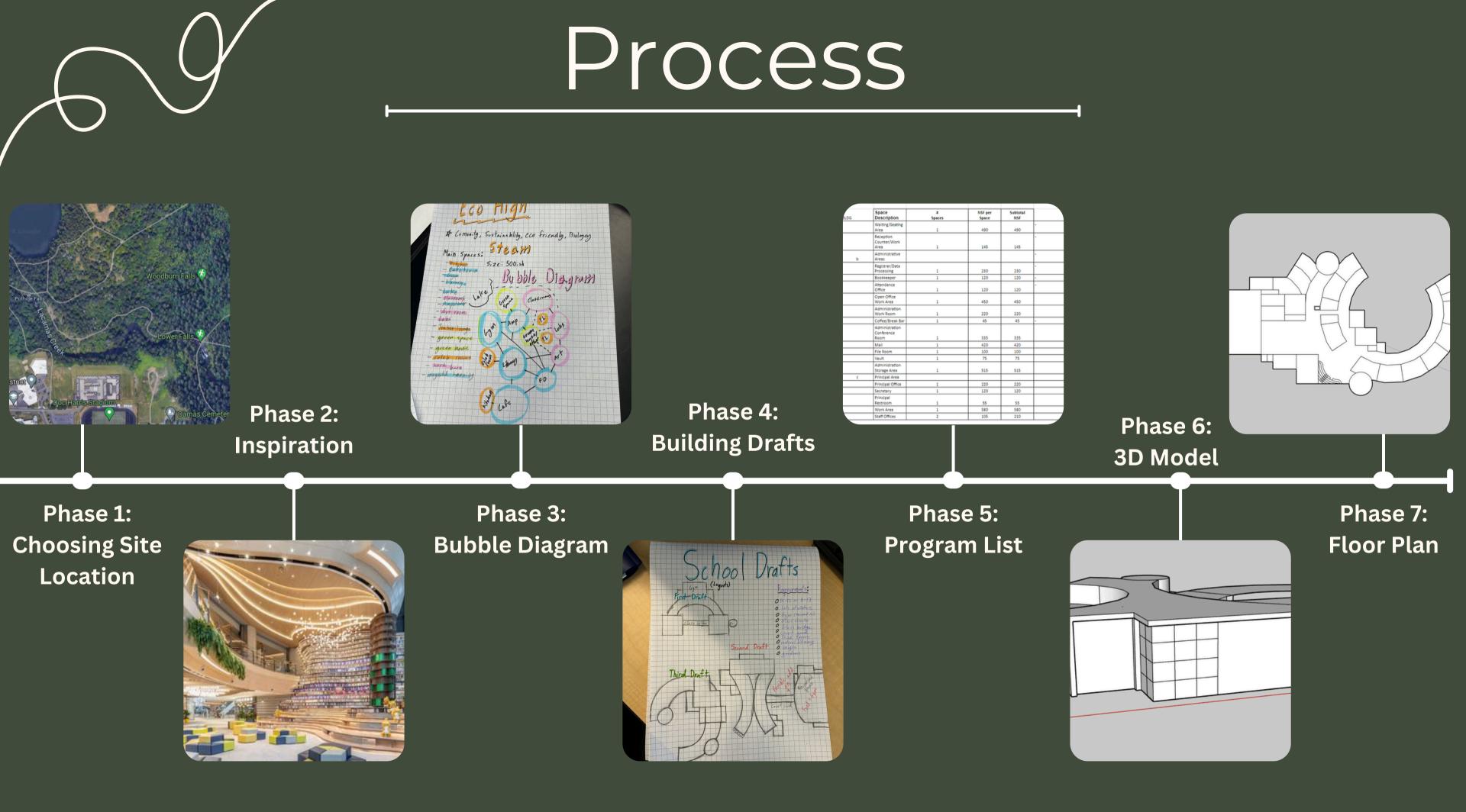


Our Team

We are a team from Discovery High School located in Camas, WA. Our team is made up of two seniors, a junior, a sophomore, and a freshman. Every individual contributes a different viewpoint and set of abilities.

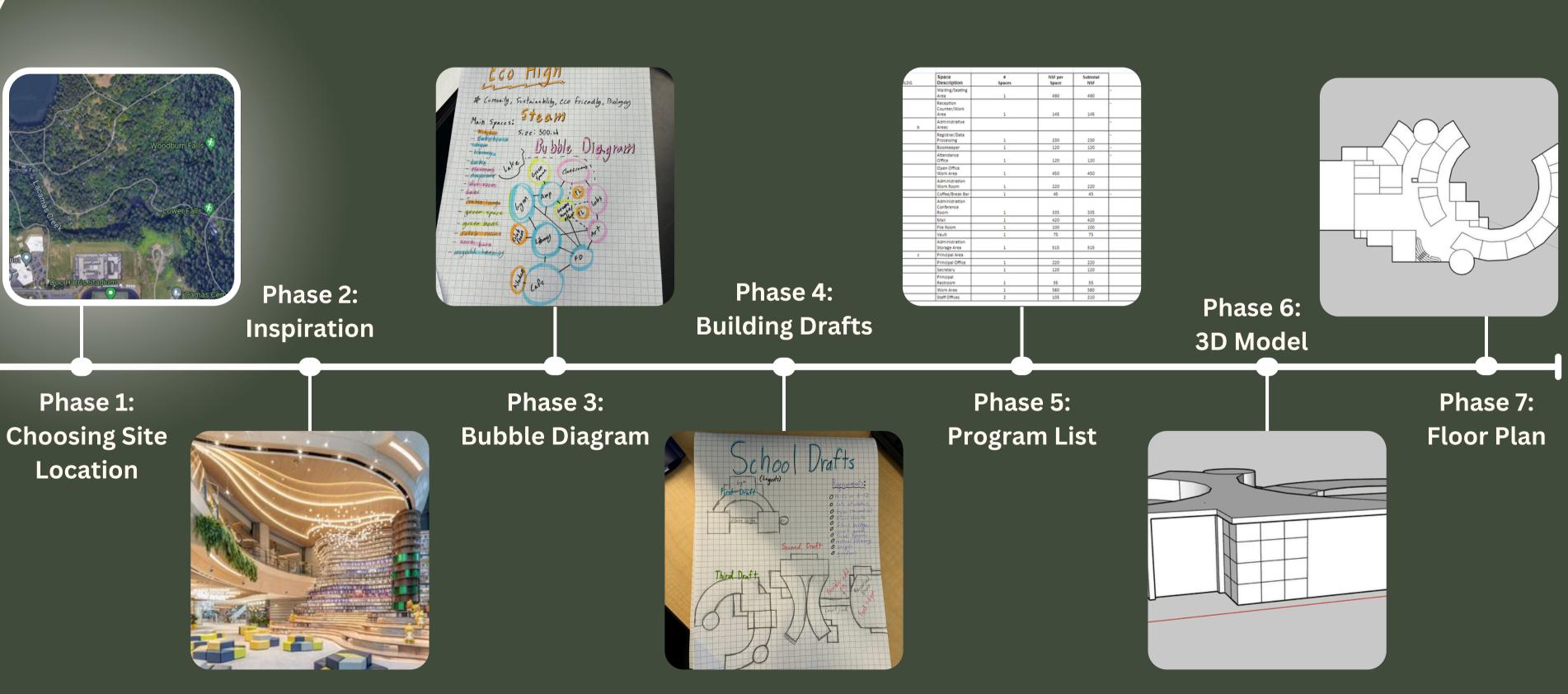


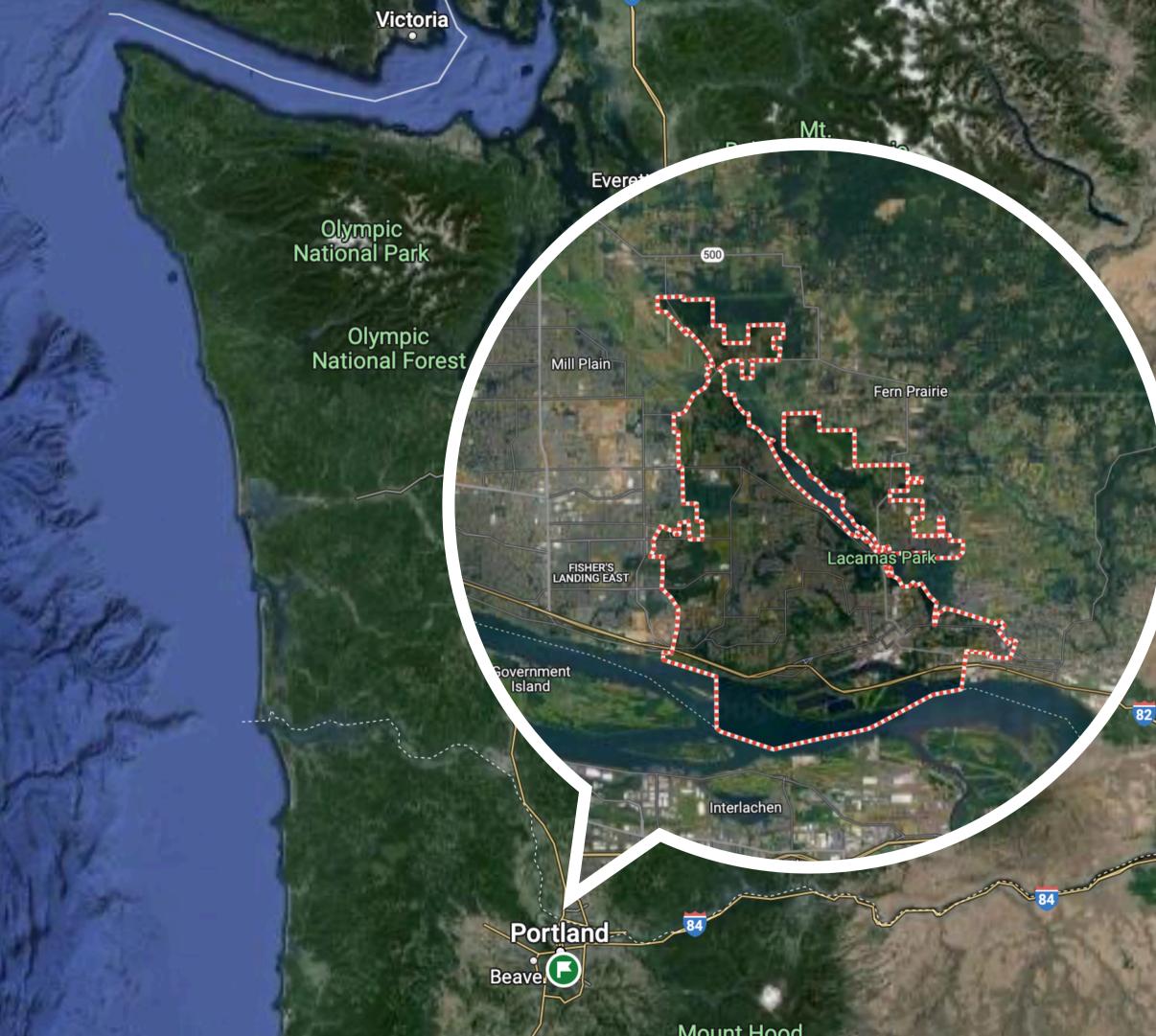
Aubrey, Sophie, Beau, Zac, & Jasmine



Phase 1







Omak

COLVILLE RESERVATION

Spokane Post Falls Coeur d

90

INGTON

Moses Lake

Pullman ·

• Mosco

COEUR D'AI RESERVAT

Lewiston

Richland

Kennewick

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84

W S

Wallowa-Whitman

50 mi

La Glande



Little



annun un p

11/11/1

Camas Lily Fields

Woodburn Falls 🌾

Lower Falls 🌾

Pothole Falls

Lacamas Creet

NE Everett St

Camas School District

Camas Communit

RoundLate

20

Little Free Library

500ft

W

s Sandy C Bernedoc



Pothole Falls

Lacamas Oreex

E EVEREII

Woodburn Falls 🕻

Lower Falls



200ft

TRAFFIC ROUTES

ECO High

Pothole Falls

Lacamas Oreex

Key Gondola Track Walking Trail Road Drop Off Accessible Parking of District

Main Parking Lot /



Woodburn Falls 🚺

Lower Falls (*









Our site is right next to Round Lake and in the heart of our community. near Liberty Middle School. When deciding on location we wanted to incorporate environment, community, and opportunity into our decision. Our site may take up some of the trail space, but provides many opportunities for students and the community that other locations would not. This site allows for a lot of unique project opportunities within the environment. The site is close to other schools and the community downtown area, allowing our building to be used for different events both collaboratively with other schools and as well as outside of school hours.

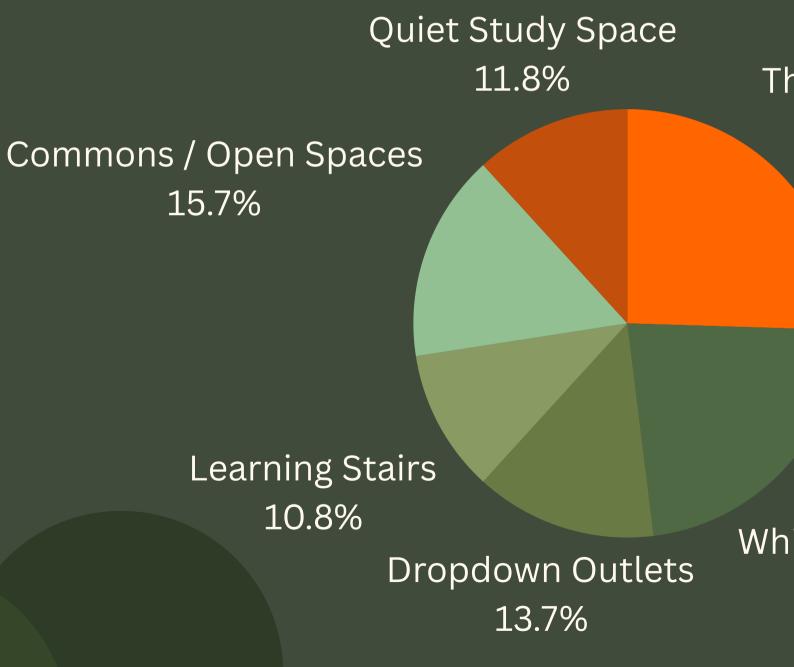
SITE LOCATION

LAKE BENEFITS

One of the focal points of our school is the lake that sits beside our school. Round Lake was one of the main reasons we chose our site location. The lake is accessible to the students which allows for many unique STEAM-based science projects. Multiple studies from The Great Lake Stewardship Initiative prove that being outdoors benefits students greatly. The study showed increased awareness, creativity, and innovativeness. This would give us an advantage over other schools, as a projects-based STEAM school.

SURVEY DATA

We sent out a survey to all the students and staff at Discovery High School, we got 50+ responses. Here are a few answers that helped influence our design!





Think Tanks 25.5%

White Board Walls 22.5%

SURVEY DATA

If you could add any features to this school what would it be? Why?

There was an overwhelming amount of responses requesting more outdoor space/activities and more exercise elements

Zen Den Space 18.9%

> Weight Room 13.5%



Better Chairs 10.8%

Green House 24.3%

> Outdoor Area 18.9%

More PE Spaces 13.5%

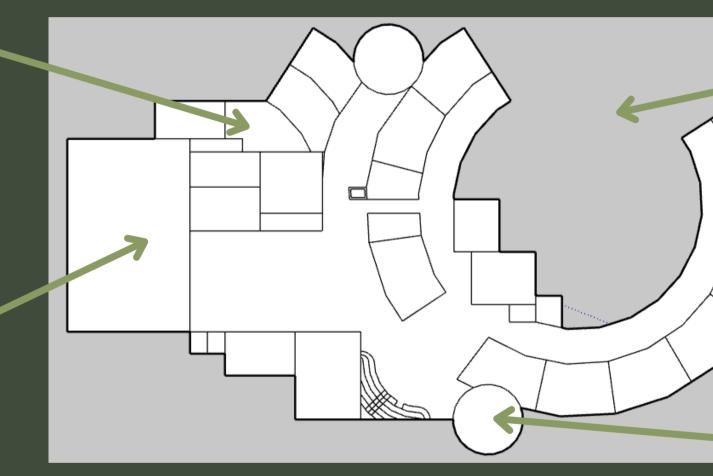
Community benefits

Because of our school's previously mentioned unique location, we knew we wanted to give back to our community. Our school also functions as a public space after hours. This will help in building longevity in helping community members who don't have students going to schools feel like they are getting benefits from their money. Various community organizations like the Rotary Club, the downtown association, and the Community Chest have mentioned how beneficial access to our spaces would be.



The Amenities

Weight room





Full gymnasium



Amphitheater



Greenhouse

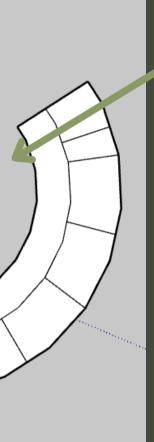


The Amenities

Greenhouse



Student store





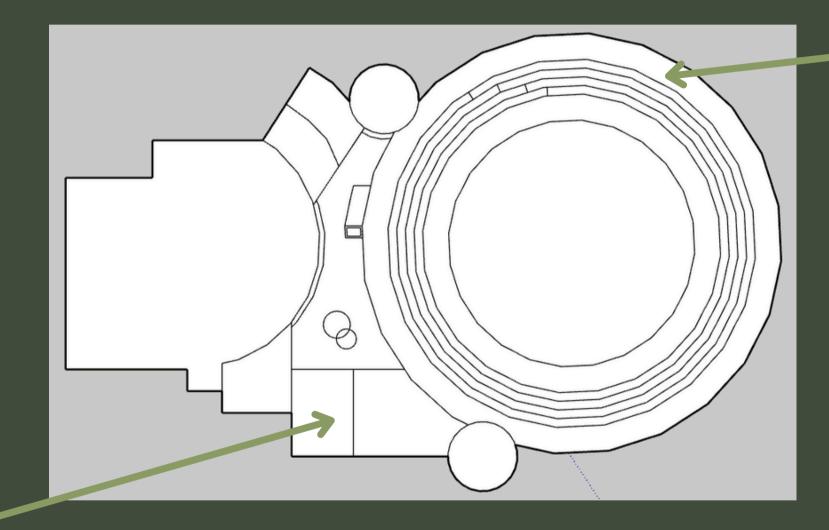
Amphitheater



Learning stairs

The Amenities





Library



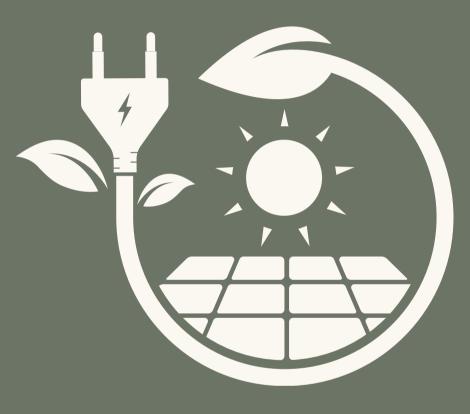
Rooftop Track

Environmental Contribution

A majority of the structure of our school will be made out of Cross-laminated timber. Cross-laminated timber is better for the environment because it removes all the carbon that goes into making steel. We will also be taking advantage of solar panels on parts of the roof of the building. This will reduce energy costs, reduce pollution, and it will showcase the use of solar panels to the community. Every dollar counts, especially when it comes to schools, and the savings from solar panels will allow us to put more money each year into our students and our community.



Sustainability



Solar Energy



Energy-Efficient Design



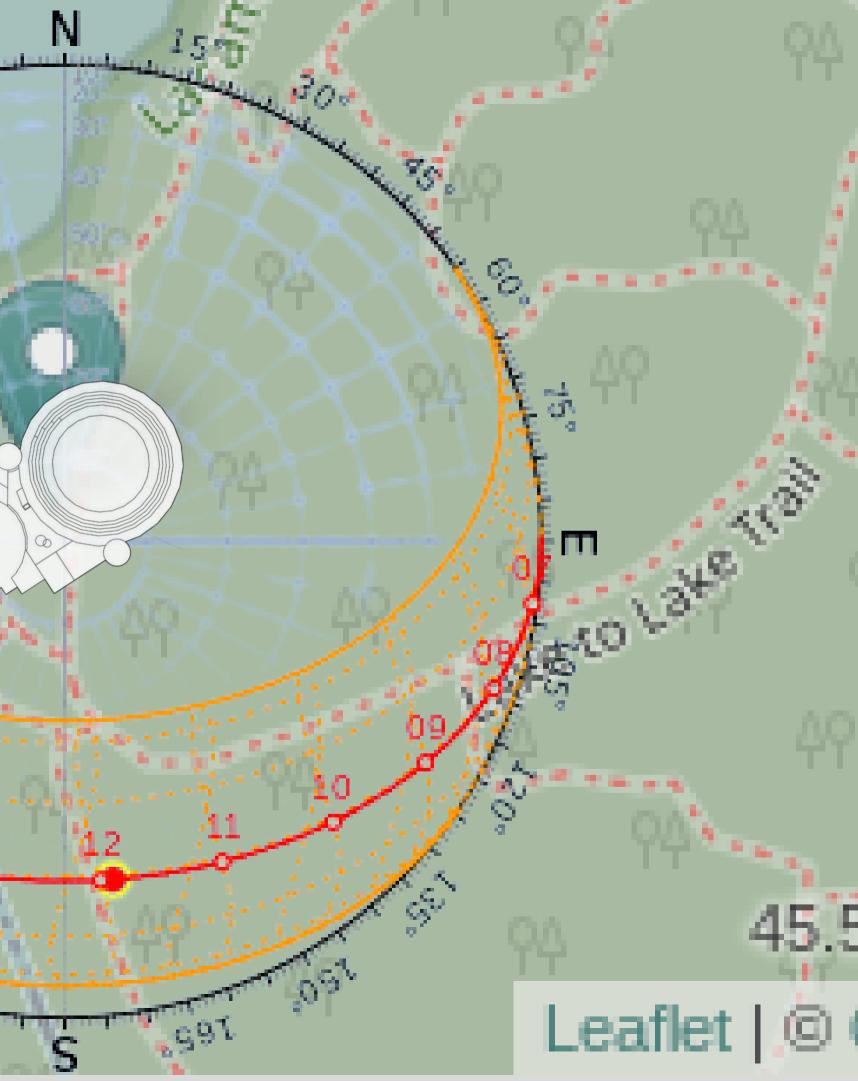


Water Use Reduction



Green Space Integration





 15°

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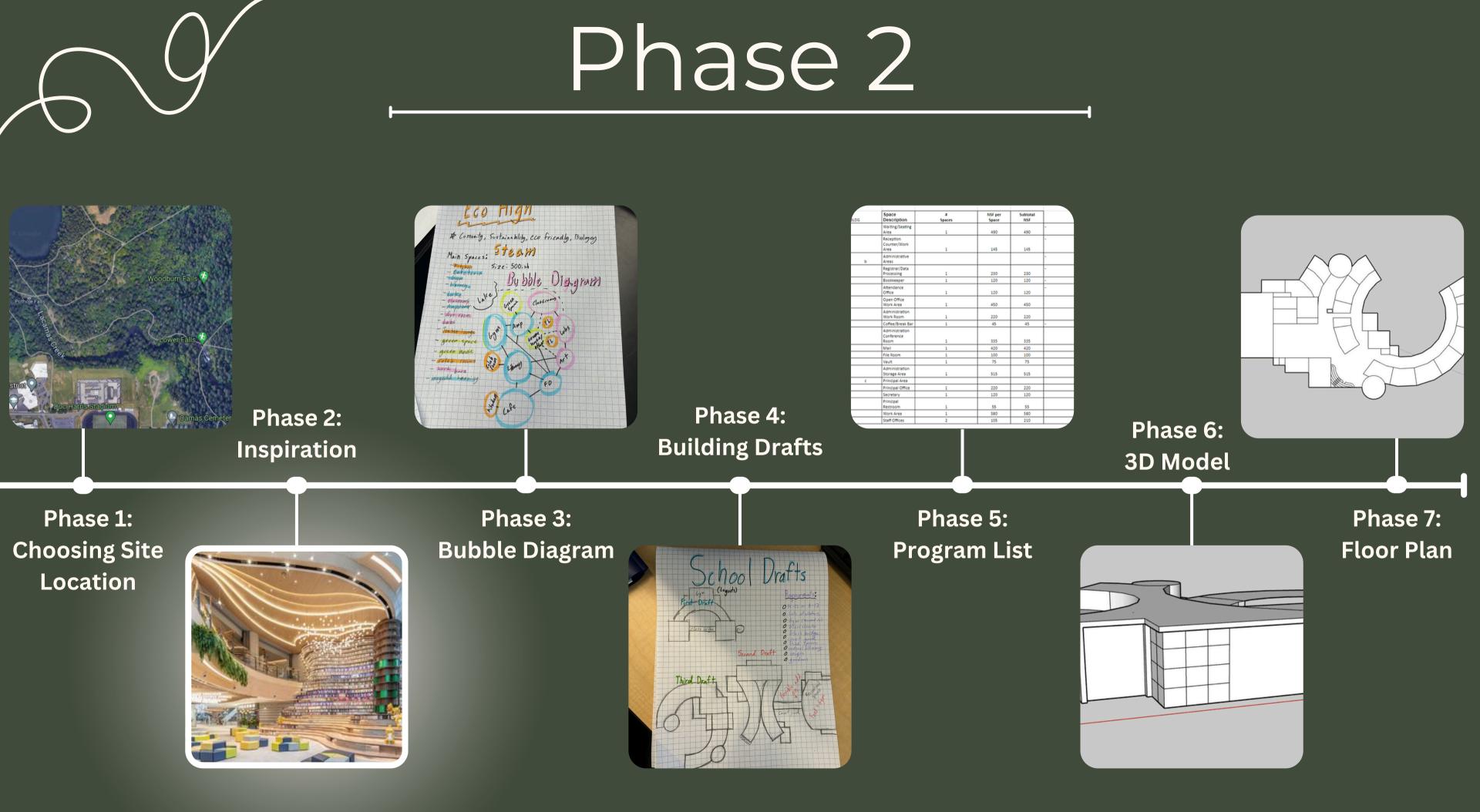
8

School greenhouses equip students with conservation, ecological knowledge, and values they will use long after they graduate. This will help continue to connect our students to nature even when it's raining. It's also a great hands-on learning project as well as will help teach students about responsibility.

Green House

Transportation

We will be relocating the former bus barn to a new property. Students will continue to use the same buses as other Camas schools, with some students driving for themselves or their parents. The former bus barn will also feature a parking lot, reducing paving and ecological damage. A unique feature will be introduced: a gondola, which will travel through the forest and serve as a means of transportation for some students to ECO High. A gondola puts out zero emissions versus cars that emit a large amount of pollution. As the gondolas are only in motion when guests are there to be transported, unnecessary energy-consuming empty trips can be avoided. This move will provide an exciting and unique learning experience for students in Camas.



Inspiration Pictures

Upon seeing these two designs, we wanted to implement their ideas into our design. The first image takes advantage of open space and natural light to create a beautiful warm and welcoming workspace. The second has the same use of open space and natural light but this one is scattered with plants that can help connect a bit more with nature in an indoor environment.



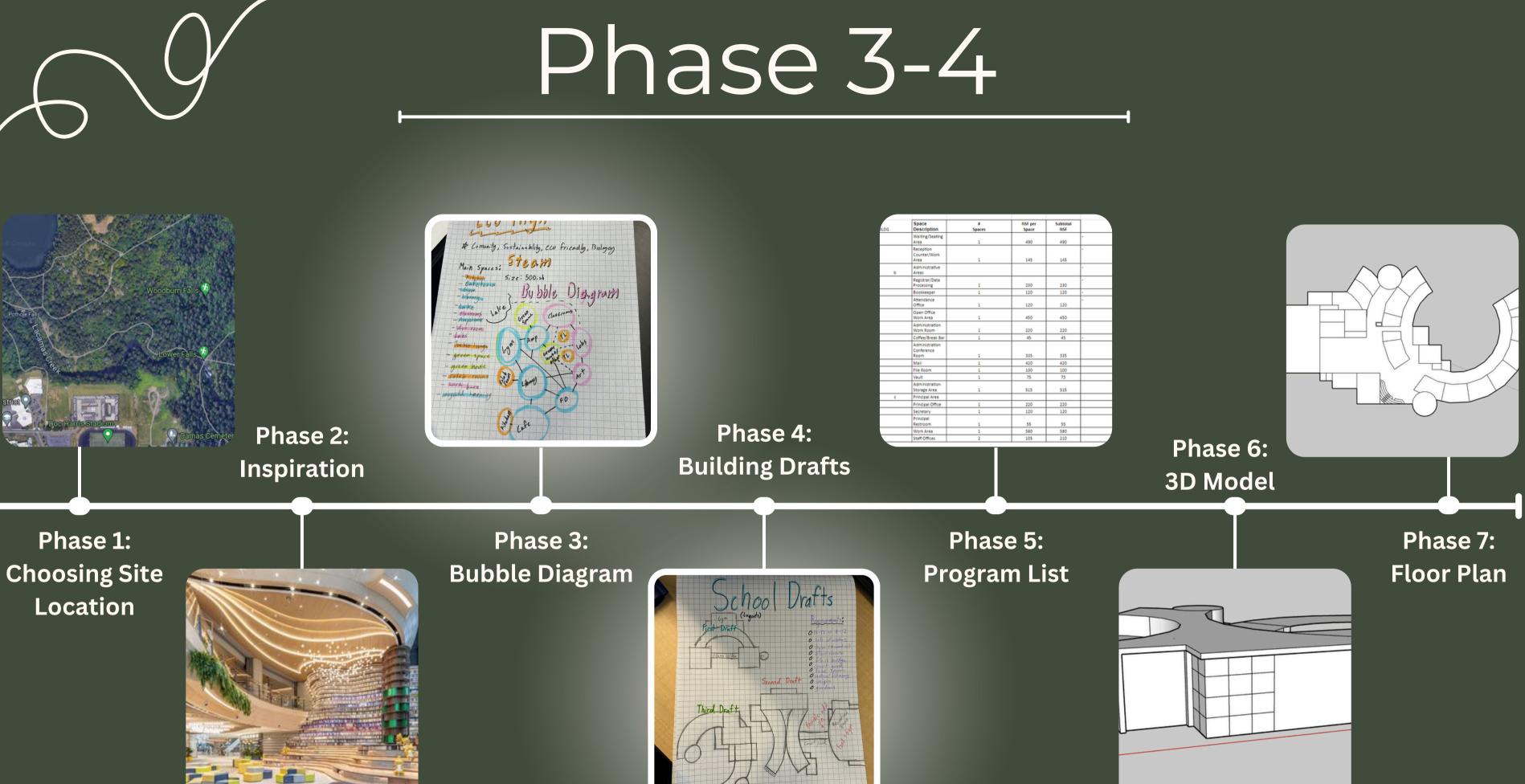




BEA MONARCH

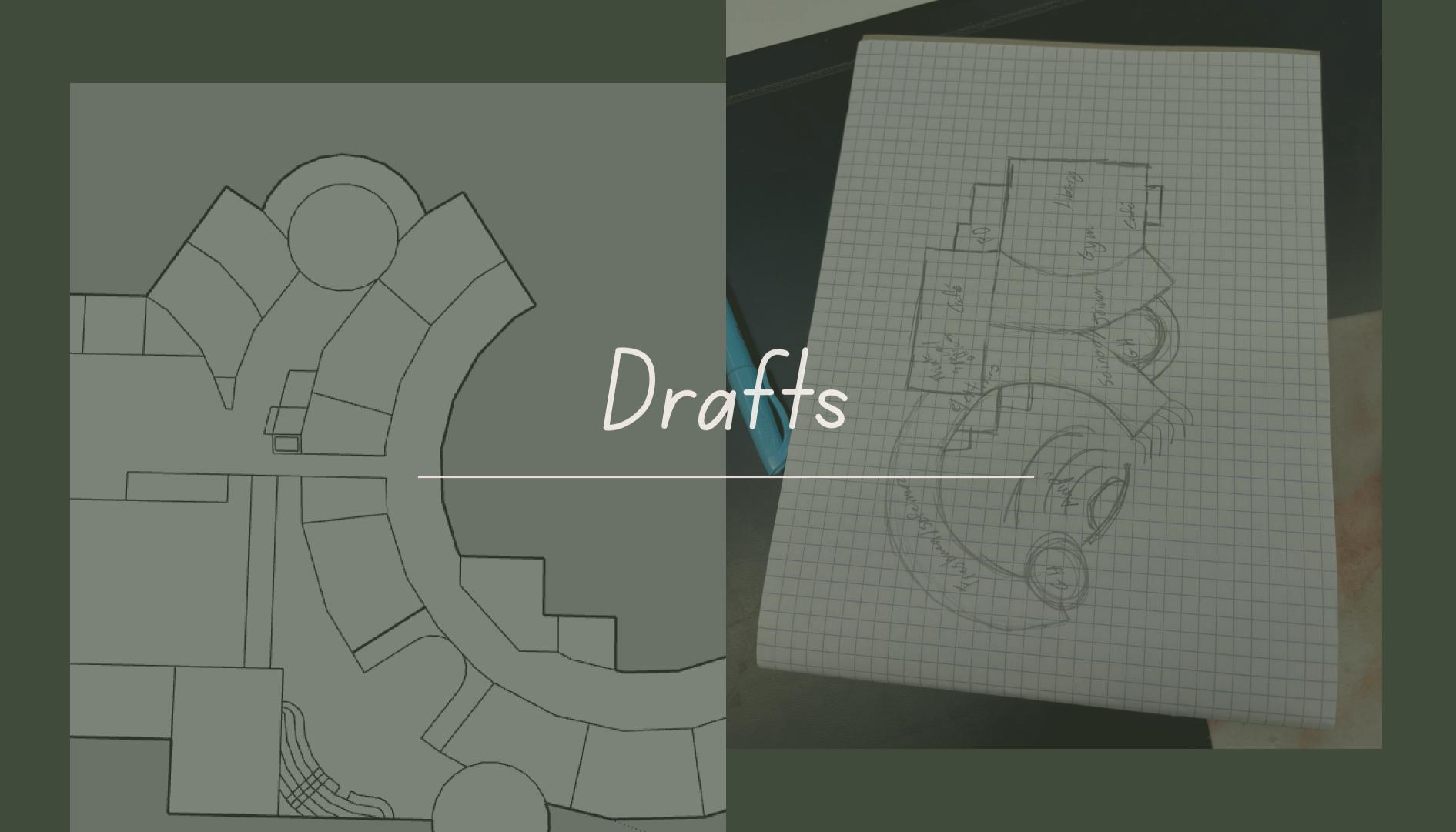
Our school mascot is a monarch butterfly, they are commonly found here in Washington forests. The monarch butterfly stands for transformation, resilience, unity, and connection. It also demonstrates the student's ability to fly above expectations. Our color scheme which you can see included the token orange of the monarch butterfly.

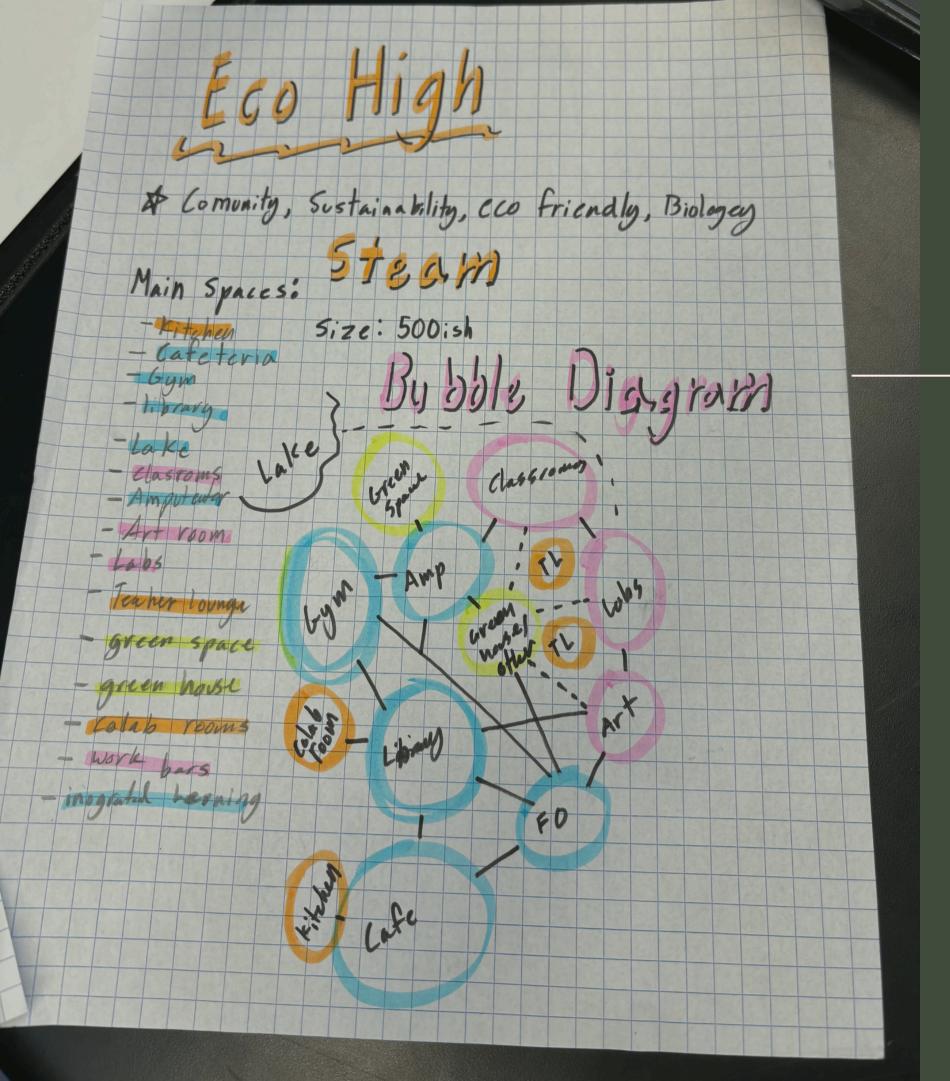












Bubble Diagram





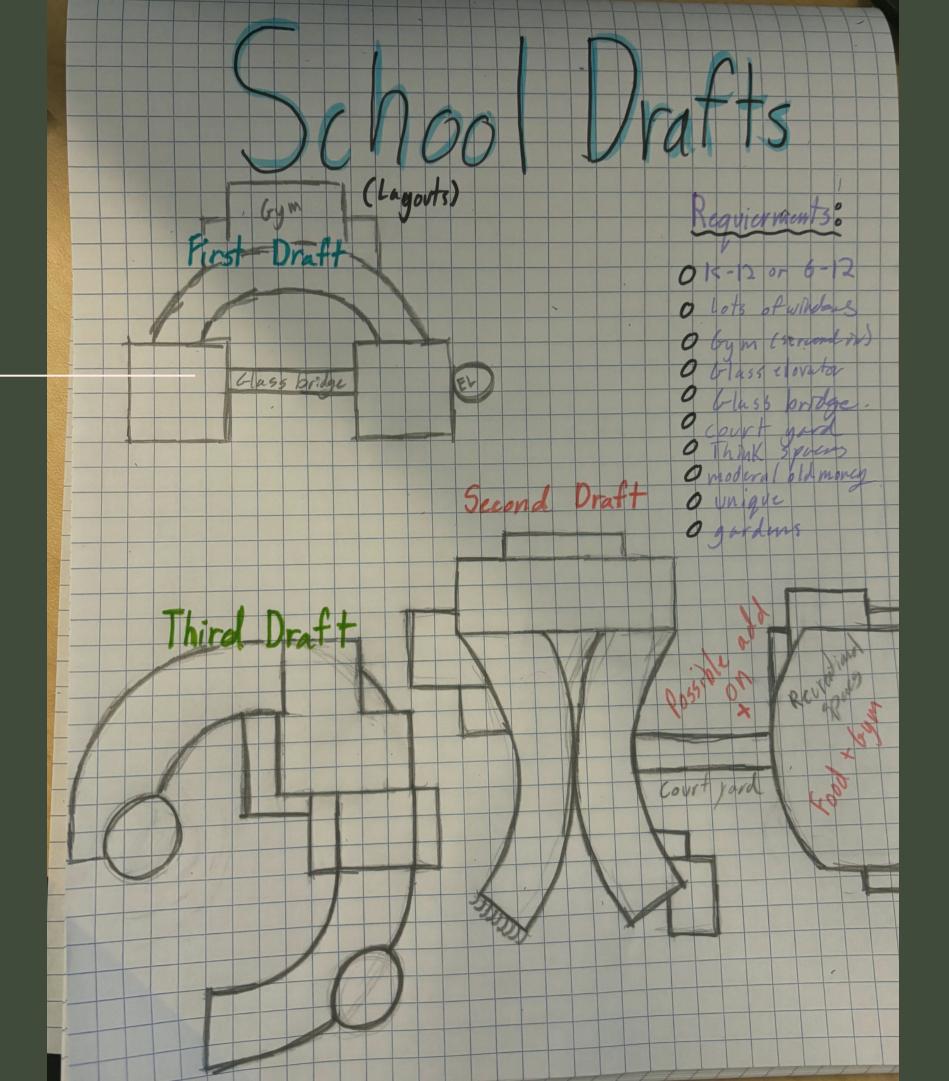


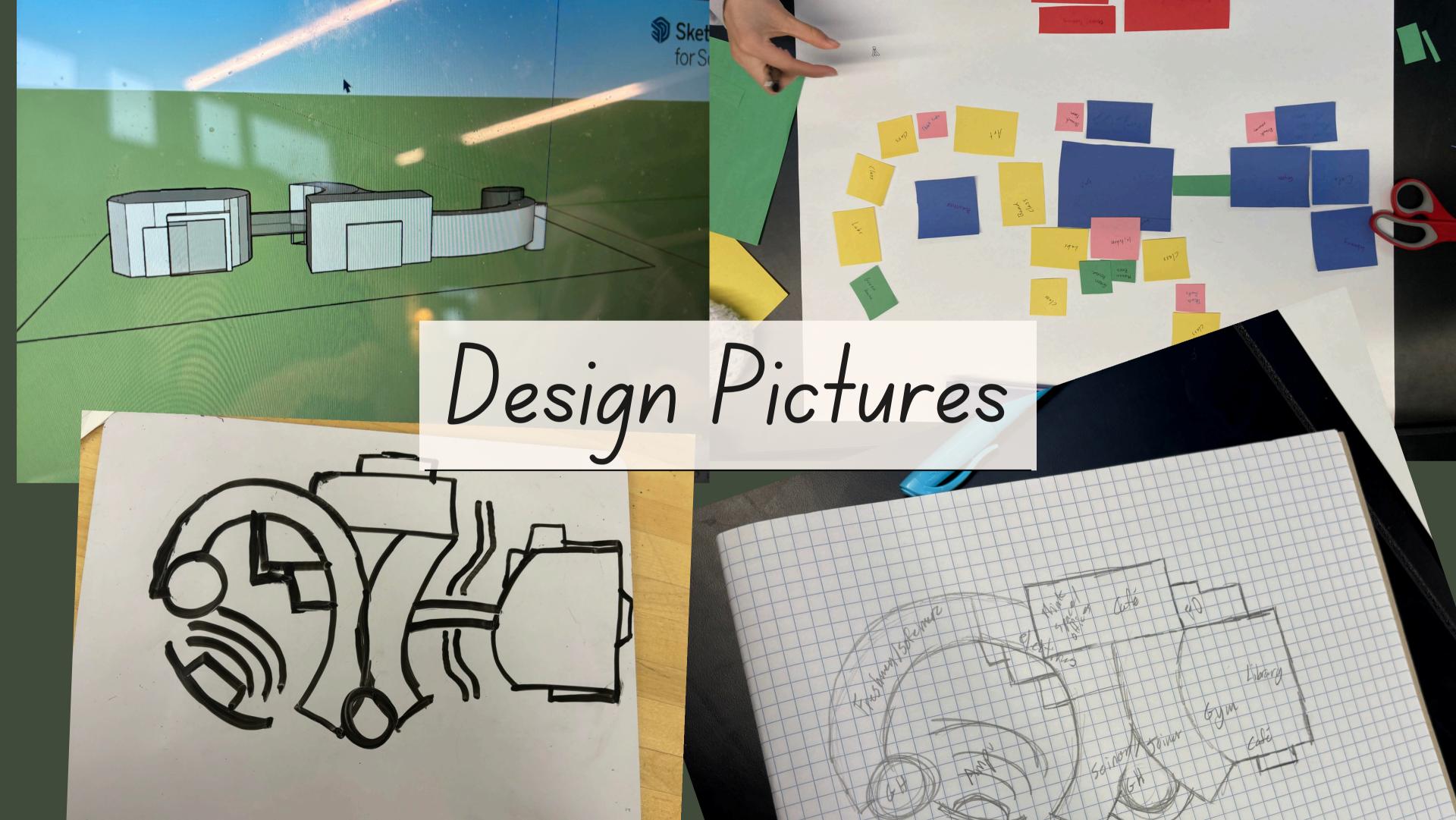


Ø Office

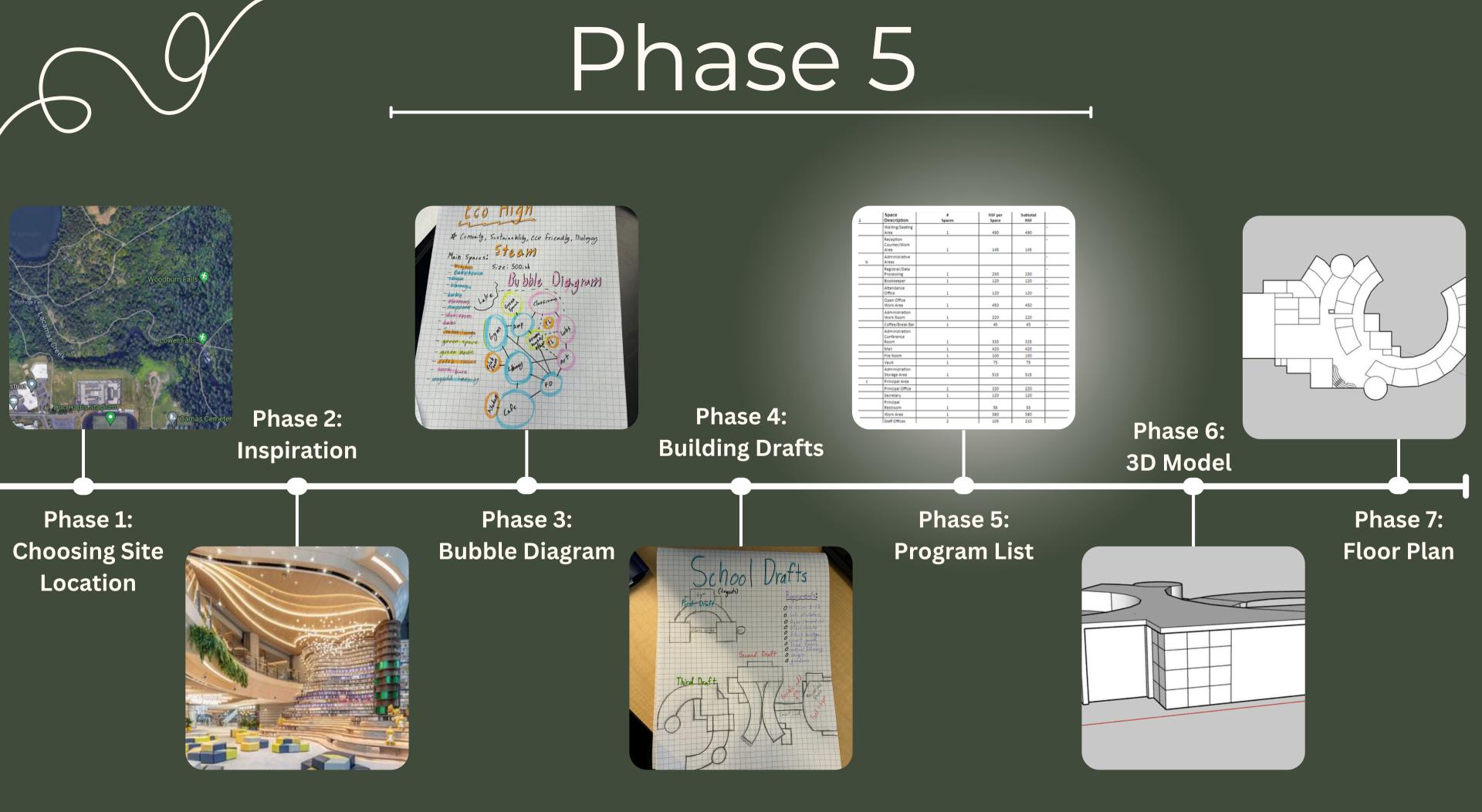
Building Drafts

- ⊘ Glass Bridge
- Circle shape
- Green house(s)
- Outdoor Space
- Collaboration Space
- Connections to Nature









Program List

BLDG	Space Description	# Spaces	NSF per Space	Subtotal NSF	
	Waiting/Seating Area	1	490	490	-
	Reception Counter/Work Area	1	145	145	-
b	Administrative Areas				-
	Registrar/Data Processing	1	230	230	-
	Bookkeeper	1	120	120	-
	Attendance Office	1	120	120	-
	Open Office Work Area	1	450	450	
	Administration Work Room	1	220	220	
	Coffee/Break Bar	1	45	45	-
	Administration Conference Room	1	335	335	
	Mail	1	420	420	
	File Room	1	100	100	
	Vault	1	75	75	
	Administration Storage Area	1	515	515	
с	Principal Area				
	Principal Office	1	220	220	
	Secretary	1	120	120	
	Principal Restroom	1	55	55	
	Work Area	1	580	580	
	Staff Offices	2	105	210	

	1 1		1		
	Break Area	1	170	170	
	Storage	1	50	50	-
	Restroom	1	65	65	-
e	Career Exploration Center	1	320	320	May be subdivided into meeting and office spaces.
g	Security Areas				
	Office	1	220	220	
	APD	1	120	120	
	Delinquent Hold Room	0			
	CCTV Monitoring Room	1	120	120	
	CCTV Equipment Room	1	90	90	
а	Circulation Desk	1	290	290	Includes 2 to 3 workstations and countertop layout area
	Circulation Storage	1	55	55	
b	Main Area				
	Stacks / Reference Collection	1	1,780	1,780	For about 18,000 volumes
	Classroom Area/Study Tables	1	1,370	1,370	36 Seats, minimum
	Computer Stations	1	450	450	16 Stations, minimum
	Reading Alcoves	1	530	530	
	Student Copiers	1	75	75	1 or 2 copiers
	Search Computer	1	75	75	1 Dedicated computer

c Librarian's Office 1 170 170 d Workroom 1 275 275 kitchenette conference/Semi 1 275 275 kitchenette e nar Classroom 1 840 840 smaller spaces f General Storage 1 745 745 storage g Graphic Production 1 475 475 g Classroom 1 475 475 475 Graphic Production Lab 1 250 250 50 g Graphic Production Lab 1 100 110 and carts. Production 1 100 110 110 and carts. Provide power and carts. g Graphic Professional 1 440 440 440 i Room 1 1,830 1,830 Administration j Book Room 1 1,830 1,830 Administration k Public Toilets 2 230 460 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>						
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j Book Room 1 1,830 1,830 Can be located in Central Administration Also provide convenient access to student toilets from the library. Entrance / a Pre-Function Concessions						
j Book Room 1 1,830 Central Administration Also provide convenient access to student toilets from the library. Entrance / a Pre-Function Concessions	i	Room	1	440	440	
j Book Room 1 1,830 1,830 Administration Also provide convenient access to student toilets from the library. Entrance / a Pre-Function Concessions						
k Public Toilets 2 230 460 Also provide convenient access to student toilets from the library. a Pre-Function		Rock Doom	1	1 920	1 820	
k Public Toilets 2 230 460 library. a Pre-Function - - - Concessions - - - -	1	BOOK KOOM	1	1,850	1,850	
k Public Toilets 2 230 460 access to student toilets from the library. a Entrance / Pre-Function Pre-Function Image: Concession state						
k Public Toilets 2 230 460 toilets from the library. a Entrance / Pre-Function Pre-Function Image: Concessions Image: Concessions						
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Concessions		· · · · ·				
	а	Pre-Function				
Public Toilets		Concessions				
		Public Toilets				
(multi-stall) 2 300 600		(multi-stall)	2	300	600	
Public Toilets						
(individual) 2 65 130		· · ·		65	130	
b Theater (outside) 1	b	Theater (outside)	1			

Program List

_						
		Coordina -		5.160	5 1 6 0	450 Seats (including
		Seating Stage, including Backstage	1	2,900	2,900	mezzanine) Include proscenium arch with apron.
		Control and AV Rooms	1	620	620	Distribute area as required
	f	Dressing Room Toilet		80	160	Consider 2 more toilet rooms for adults
Γ	g	Make-Up Room		200	400	
	0	Telcom	1	185	185	
	c	Equipment Storage	1	225	225	For storage of portable risers, chairs, cart for transporting the risers, and other equipment.
	а	Lobby / Pre-Function	1	3,000	3,000	Assume 400 occupants at 7.5 SF per occupant.
	-	Tickets	- 1	100	100	
Т	c	Snack Bar	1	340	340	
		Service	1	120	120	3 compartment sink and mop sink.
┢		Dry Storage	1	120	120	
	d	Public Toilets (Women/Men)	2	230	460	
	e	Public Toilets (Women/Men)	2	325	650	
	f	Public Toilet (Family)	1	60	60	
	g	Student Toilets	2	325	650	

	Ice and Laundry				
h	Room	1	150	150	
	Athletic				
i	Director's Office	1	150	150	
	Athletic Director				
	Storage	1	75	75	
	Conference				
j	Room	1	230	230	
					For athletic
					coaches. Assume
					60 SF per
					workstation;
					verify number of required
					workstations
					during
					programming
k	Open Office Area	1	900	900	phase.
					More than 1
					huddle room
					may be
					recommended
					based on number
					of open
	Huddle Room	1	120	120	workstations.
	Restrooms for				
	Open Office	2	65	130	
					For PE
I	Private Offices	2	120	240	instructors.
	Private Office				
	Storage	2	100	200	
	Private Office				
	Restrooms	2	75	150	
m	Main Gym	1	12,210	12,210	

				1 Storage area is for competition wrestling mats, and the other storage area is
Main Gym Storage	2	315	630	for tables, chairs, and equipment.
Main Gym AV Room	1	75	75	
Coach's Shower Room	1	85	85	
Student Shower Rooms	2	85	170	
Multi-purpose Me	zzanine	2790	2790	
MP Mezzanine Storage	1	300	300	For ping-pong tables and other MP equipment.
Mezzanine General Storage	1	245	245	in equipment.
JROTC	1	2,600	2,600	Could be located in Business + Leadership Academy. Includes air rifle firing range.
Classical		600	1200	Can be combined for one classroom space
				classroom space
Unices	2	120	240	Includes laundry
Drill Storage	1	175	175	area.
Uniform Storage	1	250	250	
Train Aids Storage	1	200	200	
Restrooms (girls/boys)	2	60	120	
	Main Gym AV Room Coach's Shower Room Student Shower Rooms <u>Multi-purpose Me</u> MP Mezzanine Storage Mezzanine General Storage JROTC Classroom Offices Drill Storage Uniform Storage Train Aids Storage Restrooms	Storage 2 Main Gym AV Room 1 Coach's Shower Room 1 Student Shower Rooms 2 Multi-purpose Mezzanine MP Mezzanine Storage 1 MP Mezzanine General Storage 1 JROTC 1 Classroom 2 Offices 2 Drill Storage 1 Uniform Storage 1 Train Aids Storage 1 Restrooms 1	Storage2315Main Gym AV Room175Coach's Shower Room185Student Shower Rooms285Multi-purpose Mezzanine2790MP Mezzanine Storage1300Mezzanine General Storage1245JROTC12,600Classroom2600Offices2120Drill Storage1175Uniform Storage1250Train Aids Storage1200Restrooms200	Storage 2 315 630 Main Gym AV Room 1 75 75 Coach's Shower Room 1 85 85 Student Shower Rooms 2 85 170 Multi-purpose Mezzanine 2790 2790 MP Mezzanine Storage 1 300 300 Mezzanine General Storage 1 245 245 JROTC 1 2,600 2,600 Classroom 2 600 1200 Offices 2 120 240 Drill Storage 1 250 250 Train Aids Storage 1 200 200

Program List

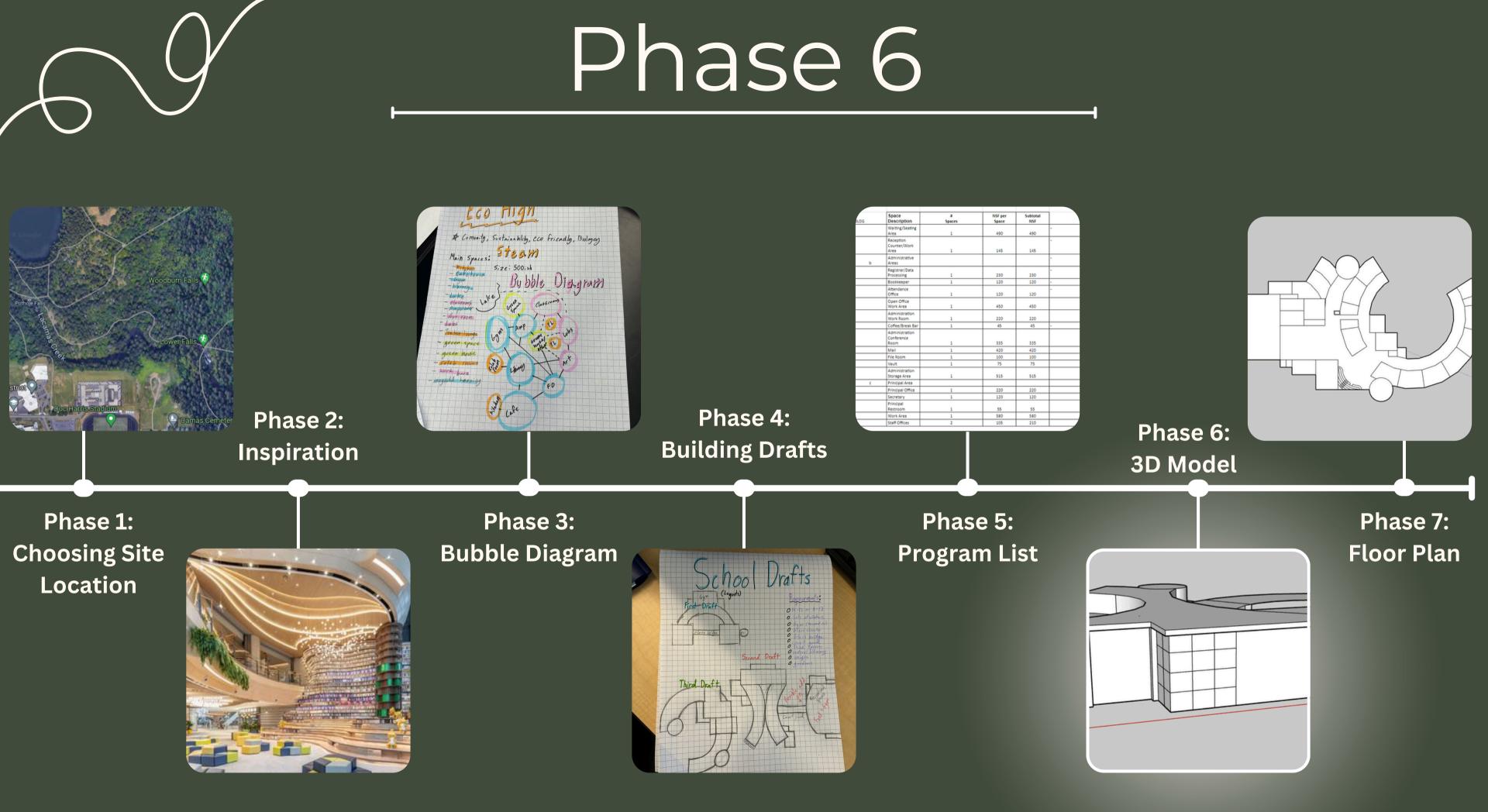
	Main Gym Storage	2	315	630	1 Storage area is for competition wrestling mats, and the other storage area is for tables, chairs, and equipment.
	Main Gym AV Room	1	75	75	
	Coach's Shower Room	1	85	85	
	Student Shower Rooms	2	85	170	
	Multi-purpose Me	zzanine	2790	2790	
	MP Mezzanine Storage	1	300	300	For ping-pong tables and other MP equipment.
	Mezzanine General Storage	1	245	245	
s	JROTC	1	2,600	2,600	Could be located in Business + Leadership Academy. Includes air rifle firing range.
	Classroom	2	600	1200	Can be combined for one classroom space
	Offices	2	120	240	
	Drill Storage	1	175	175	Includes laundry area.
	Uniform Storage	1	250	250	
	Train Aids Storage	1	200	200	
	Restrooms (girls/boys)	2	60	120	

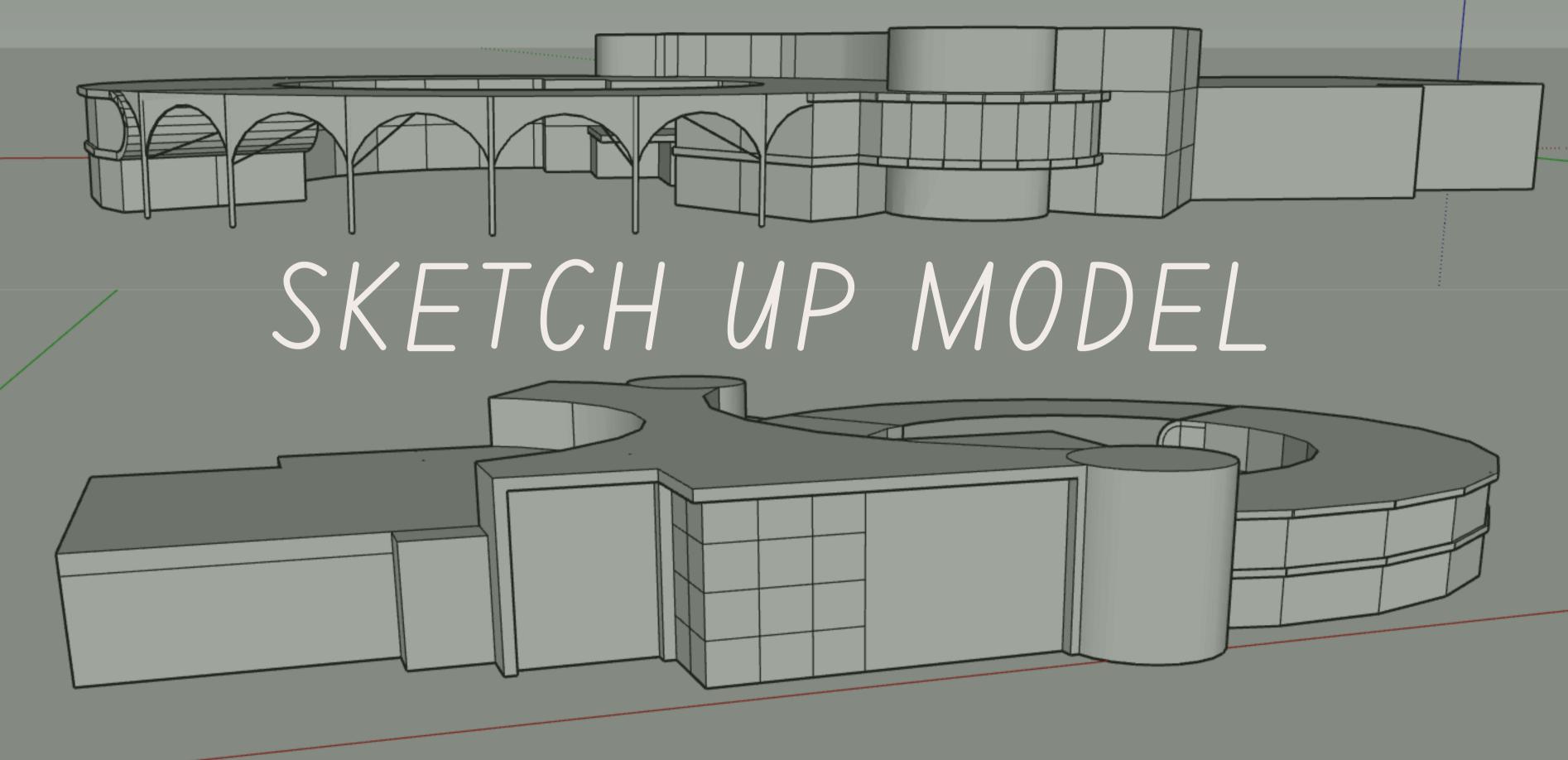
					1 Storage area is		Restroom (staff)	1	60	60	
					for competition		PE Locker Rooms				
					wrestling mats, and the other	t	(girls/boys)	2	2,943	5,890	
					storage area is		PE Storage				
	Main Gym				for tables, chairs,		(interior)	1	.300	300	
	Storage	2	315	630	and equipment.		PE Storage	_			
	Main Gym AV Room		75	75			(Exterior)	1	150	150	
	Coach's Shower	1	/5	/5			Dressing Rooms	2	75	150	
	Room	1	85	85			Storage	1	150	150	
	Student Shower	-					MP Room #2				
	Rooms	2	85	170		Z	(Club Room)	1	3,500	3,500	
	Multi-purpose Me	zzanine	2790	2790			Office	1	140	140	
					For ping-pong		Storage	1	190	190	
	MP Mezzanine				tables and other	35	Janitor Closet	2	100	200	
	Storage	1	300	300	MP equipment.	bb	Telecom/IT	2	165	330	
	Mezzanine General Storage	1	245	245		Ь	Activitives Room	1	840	840	
	deneral storage	1	245	245	Could be located	a	Lobby/Waiting	1	540	340	6-10 seats
					in Business						Open
					+ Leadership						workstation
					Academy. Includes air rifle						at reception
					firing	b	Health Assistant	1	65	63	counter
S	JROTC	1	2,600	2,600	range.		Cot and Triage				
					Can be combined	C	Area	1	330	330	
		-			for one	_	ISP Cot and				
	Classroom	2	600	1200	classroom space	d	Triage Area	1	225	225	
	Offices	2	120	240		e	Nurse's Office	1	120	120	
	Drill Storage	1	175	175	Includes laundry area.	h	File Room	1	105	105	
	Uniform Storage	1	250	250		-	Storage	1	360	360	
	Train Aids	-		200							Include washer,
	Storage	1	200	200			Special Needs				dryer, and
	Restrooms					J	Changing Room	1	95	95	changing table
	(girls/boys)	2	60	120		ĸ	Toilet	2	60	120	With shower?

Special Guests

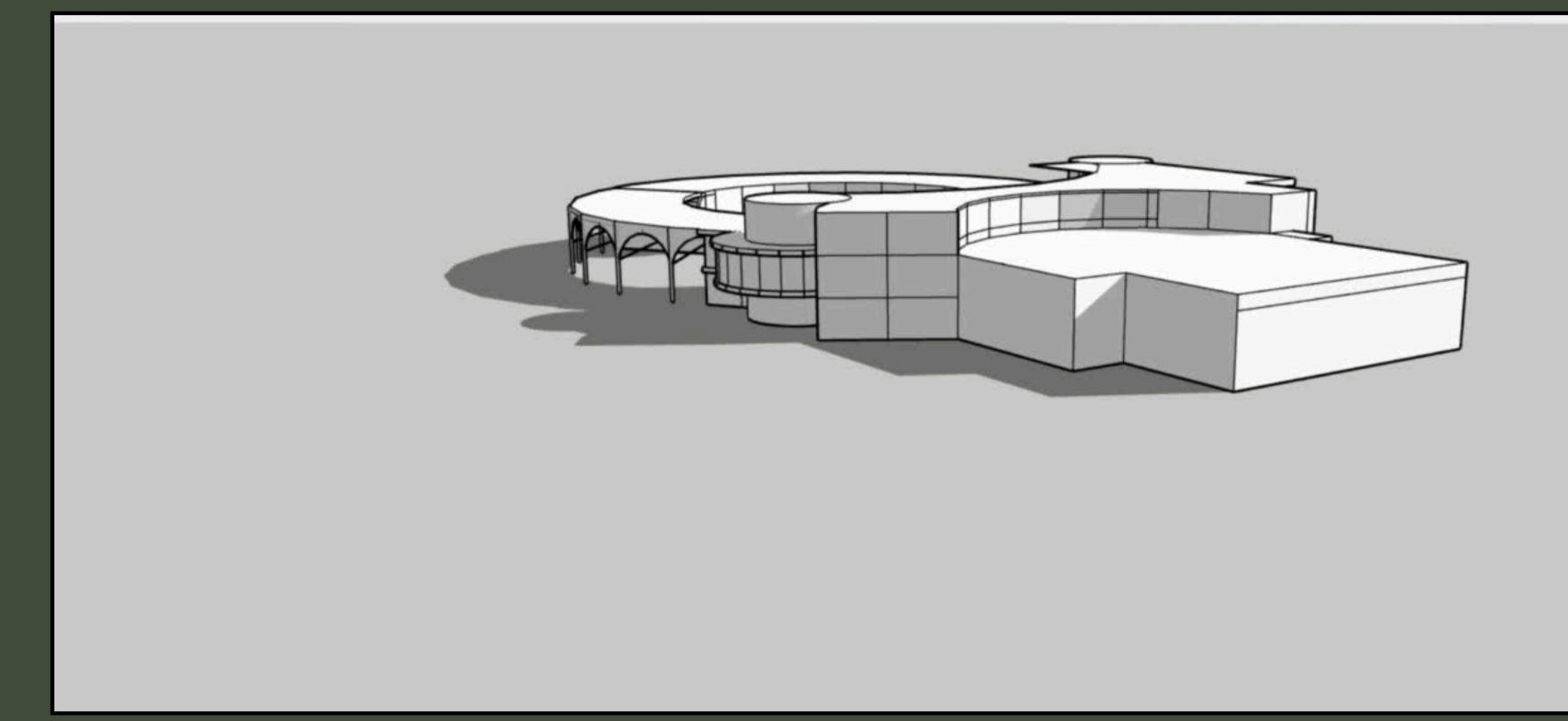
During our design process, we had the opportunity to meet with several professionals. First, we met with a civil engineer who discussed rainwater and site requirements. Then we also met with an HVAC and electrical engineer. We took all the info we learned and applied it to our site-building. It was so interesting to work with a civil engineer to learn about the bioswales and rainwater collection on our site as we are right next to a lake. We also had the chance to work with a professional architect throughout our whole design process.

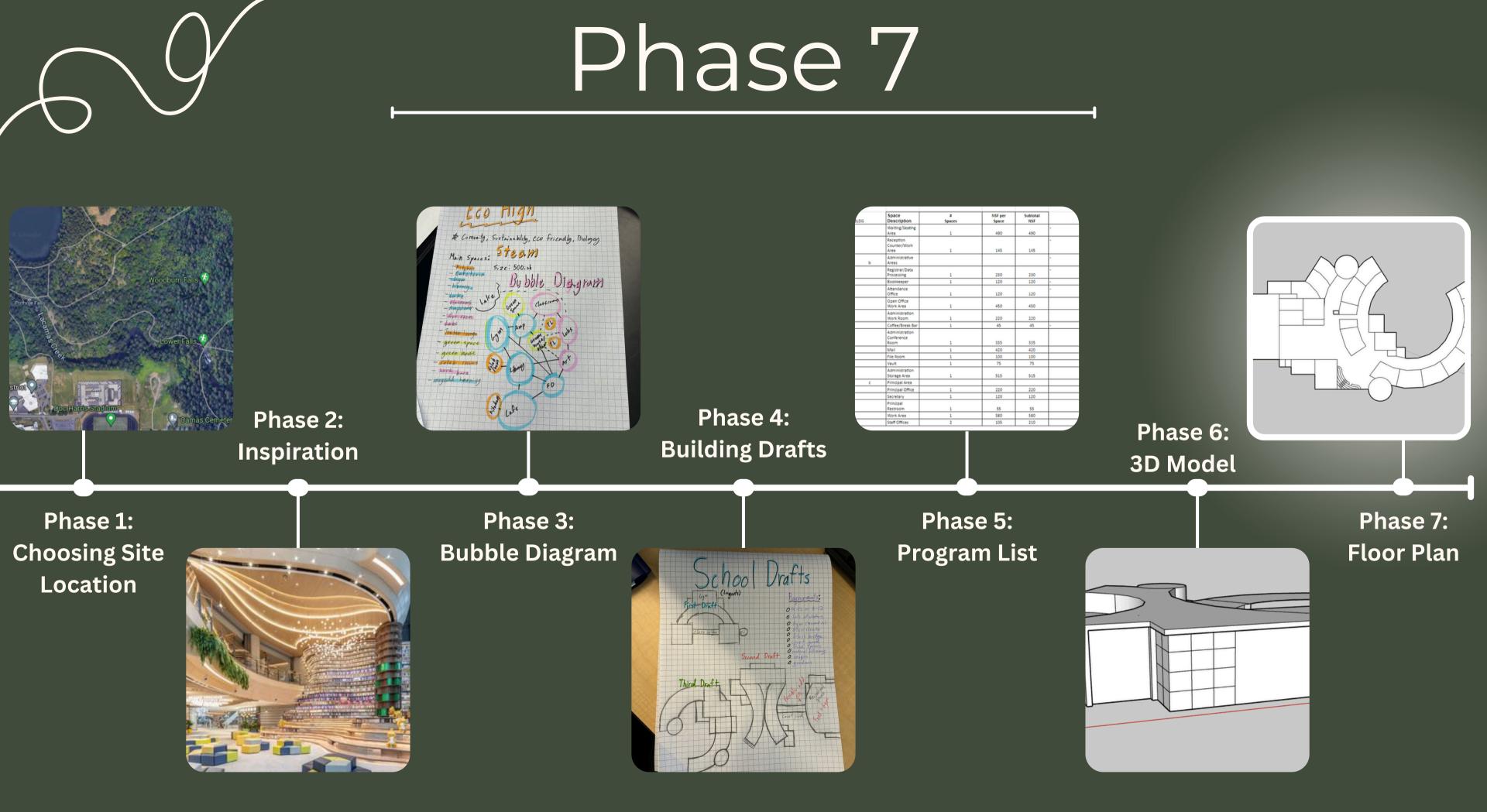






SKETCH UP MODEL

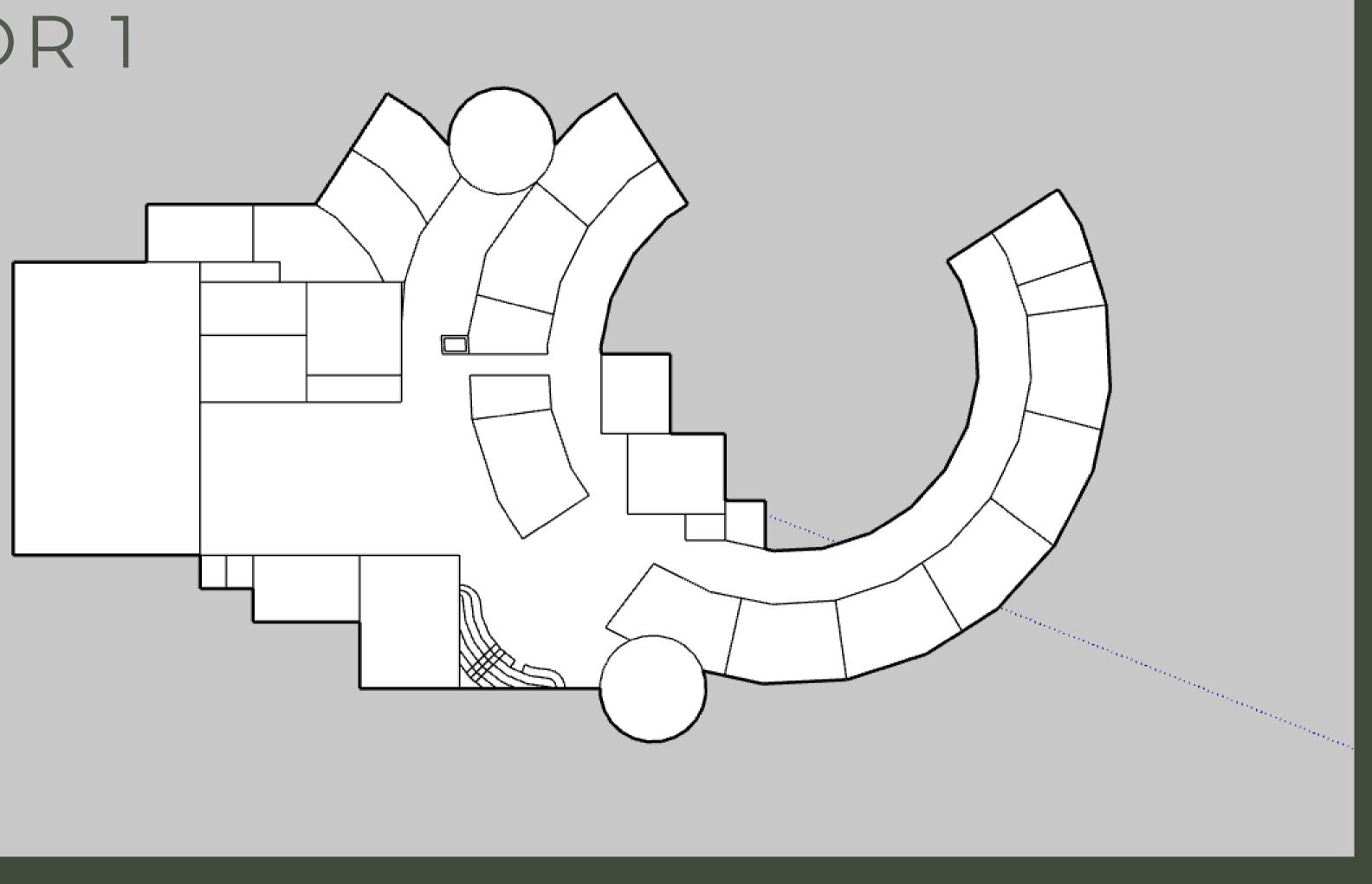


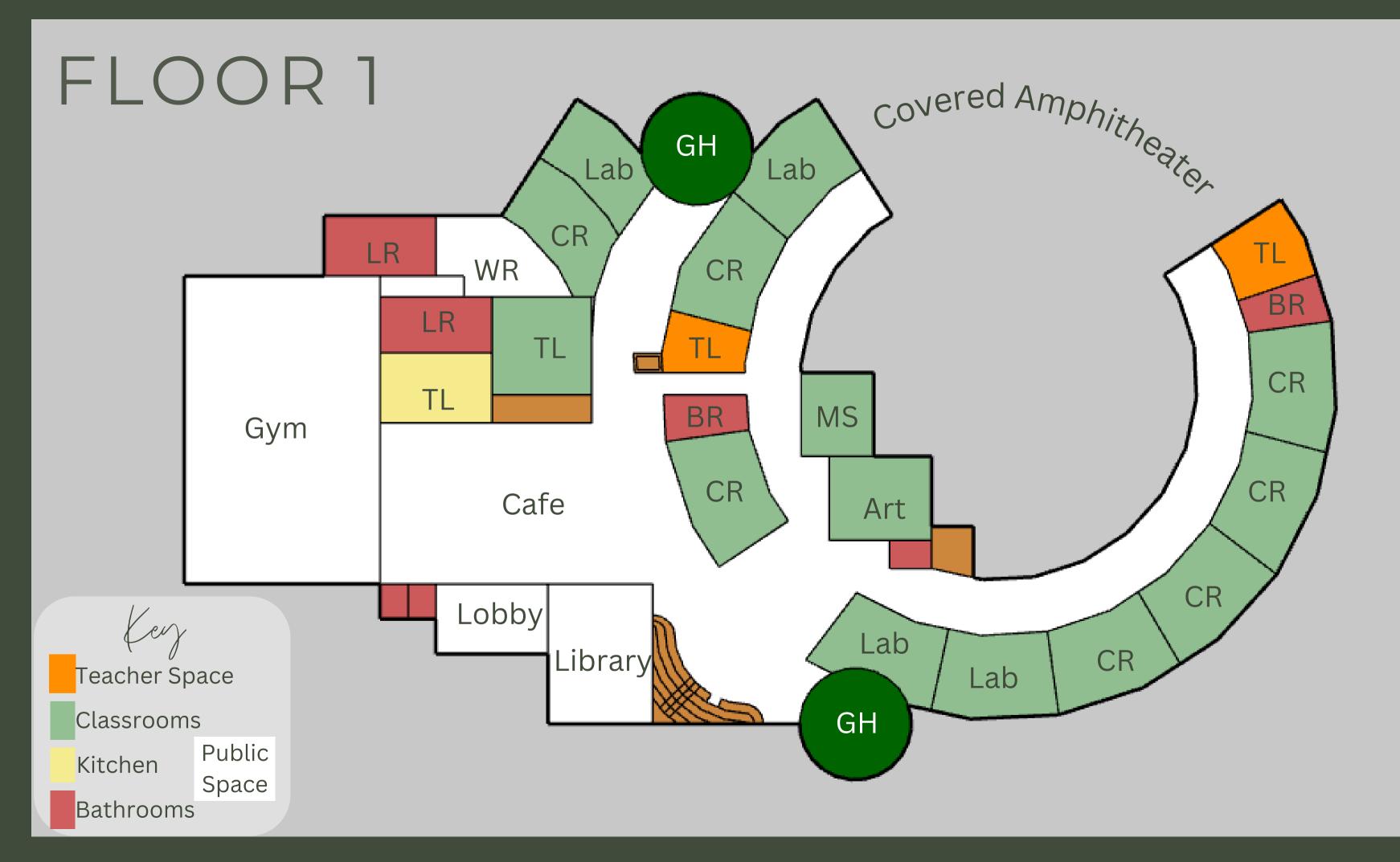


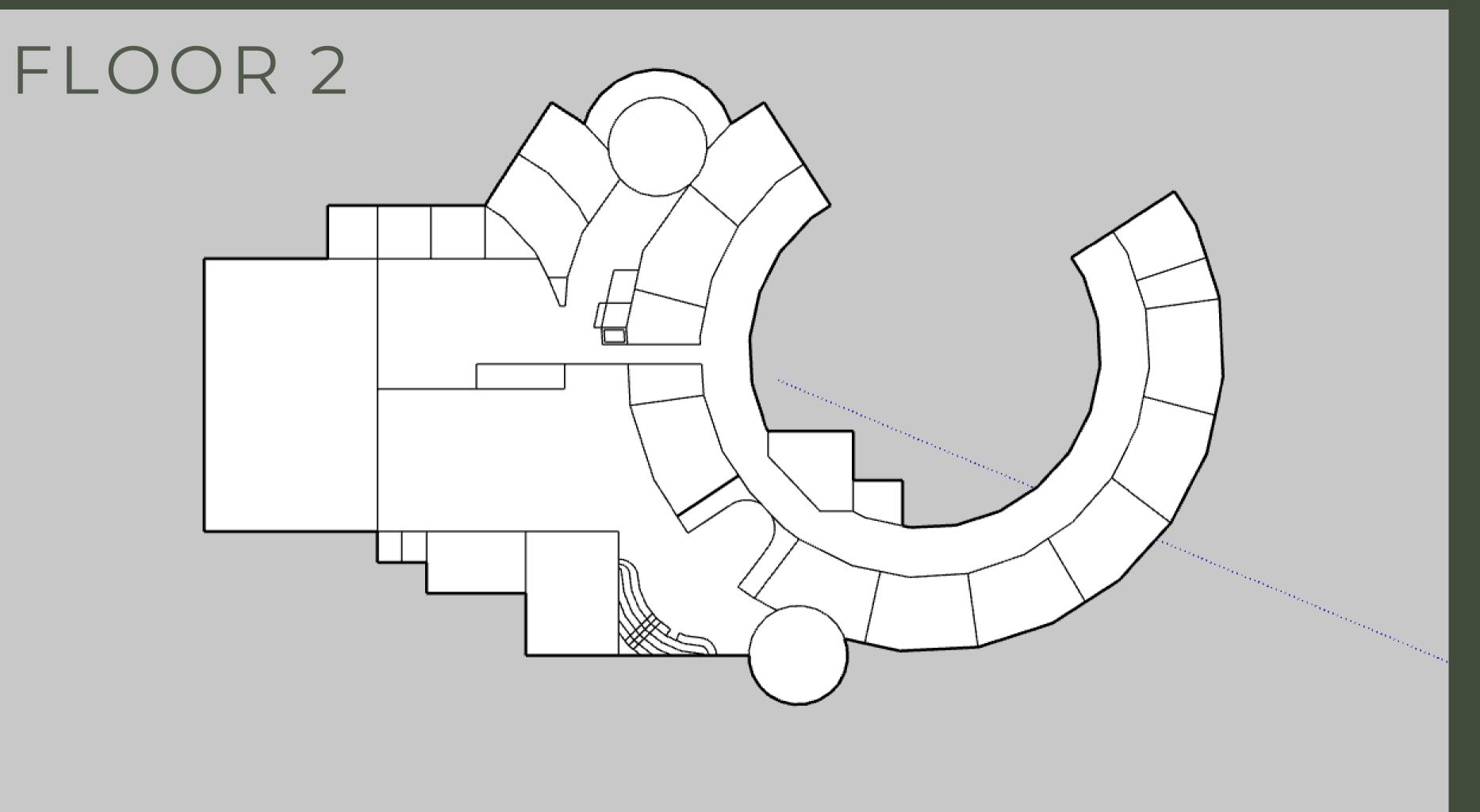
FLOOR PLANS

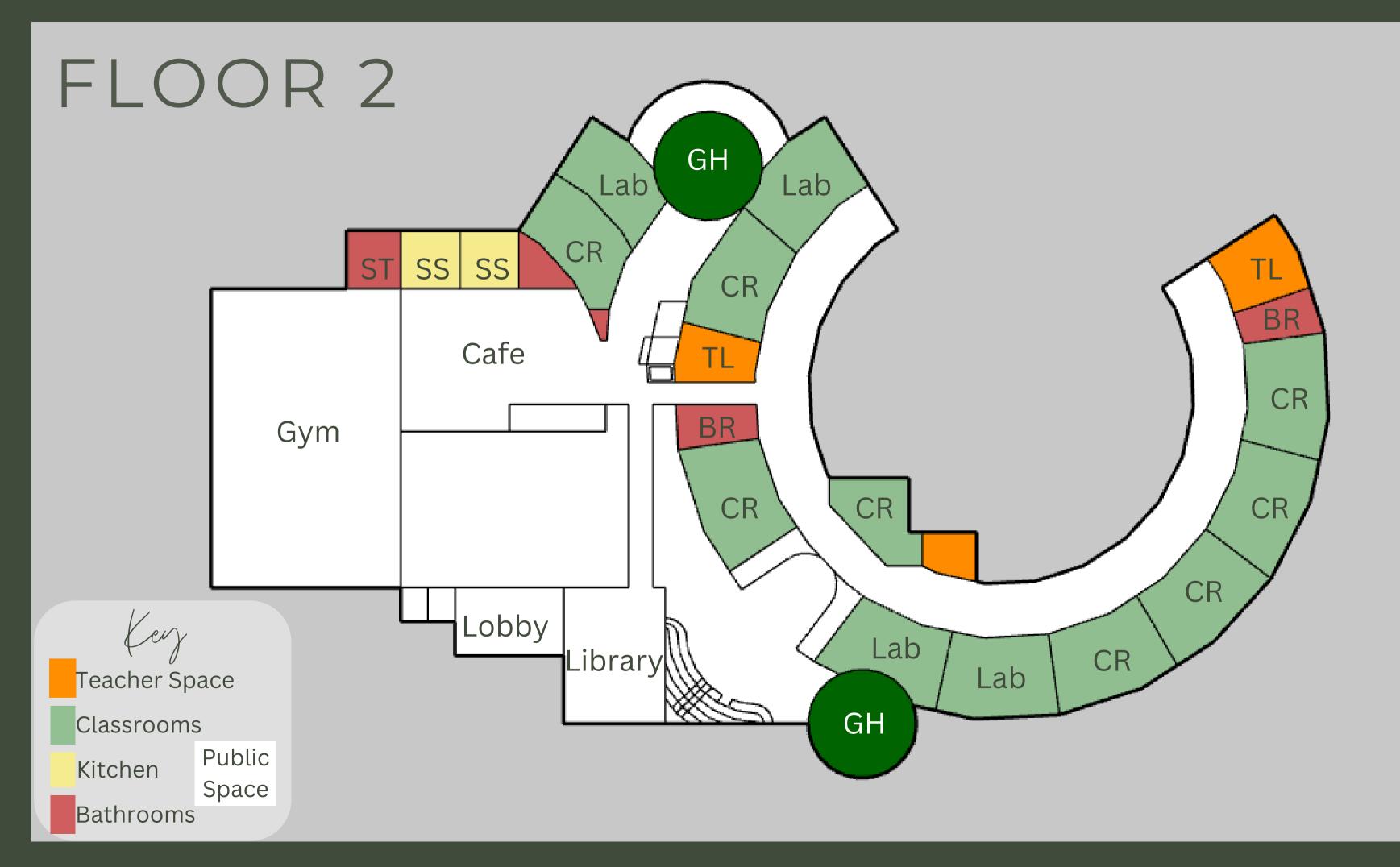


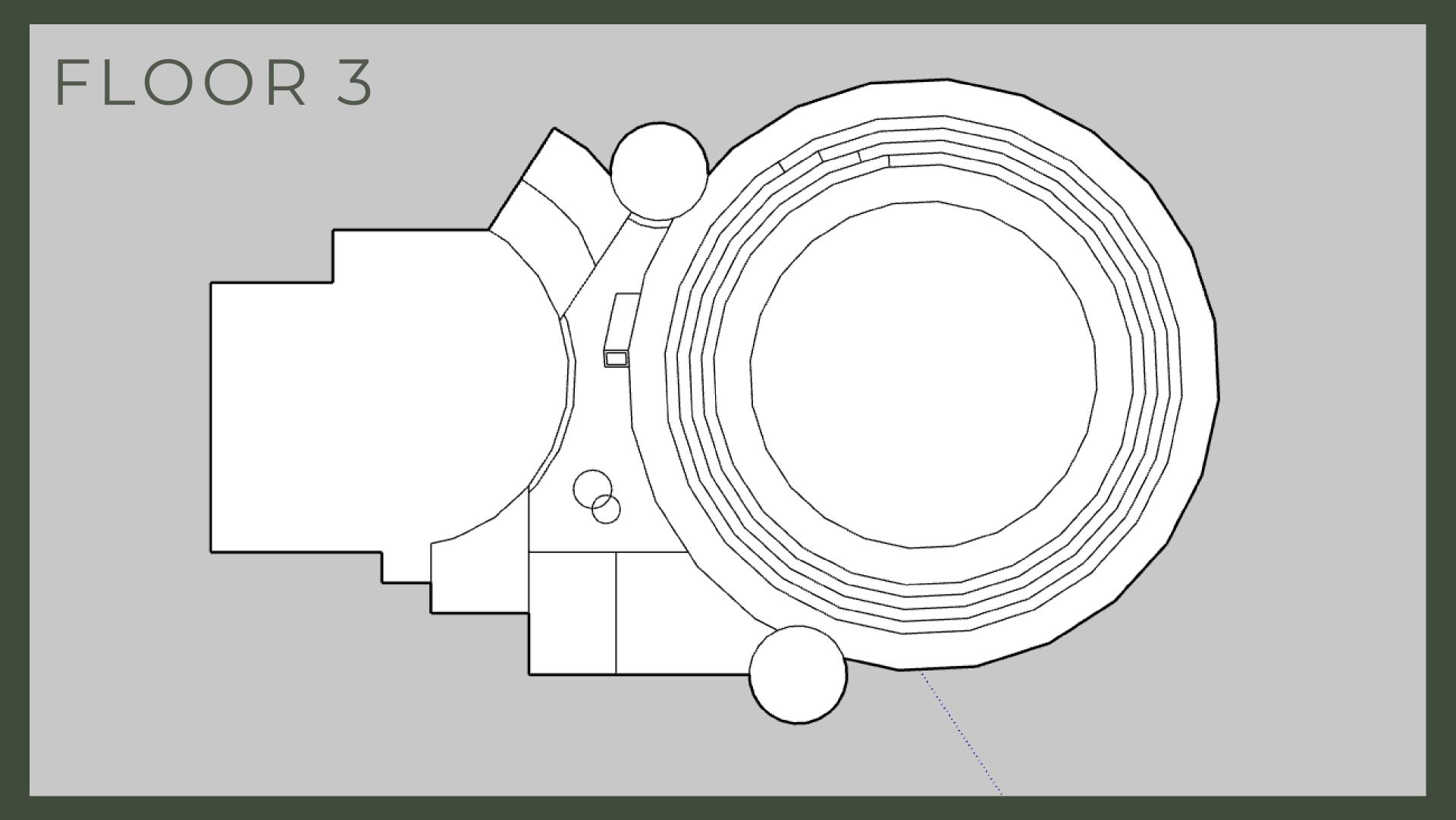
FLOOR 1

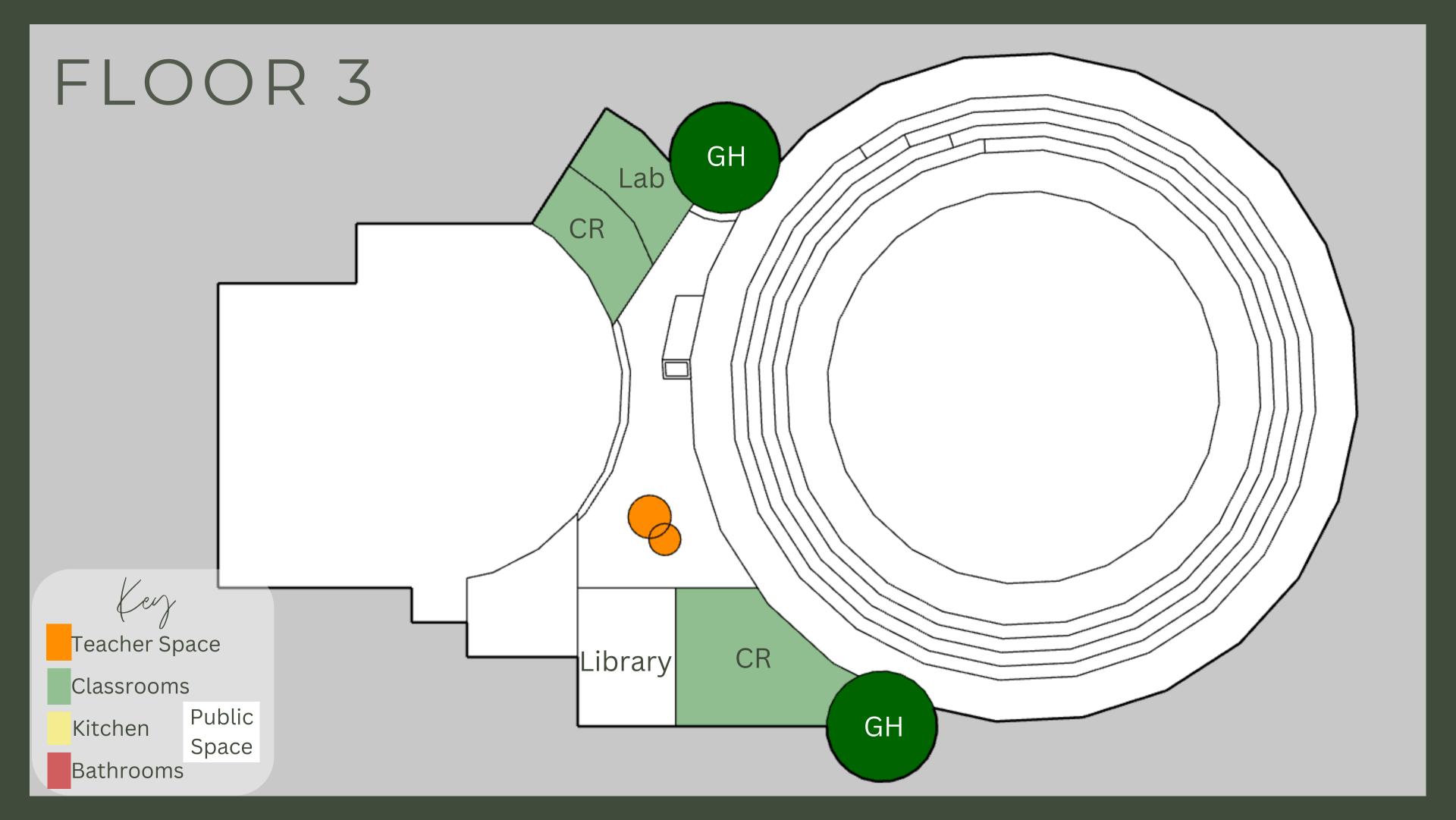












The hexagon tables alow for many different table shapes and maximizes collaboration





CORE CLASSROOMS UNIQUE FEATURES

CORE CLASSROOMS UNIQUE FEATURES

Many classrooms have different areas so they can change up their learning space

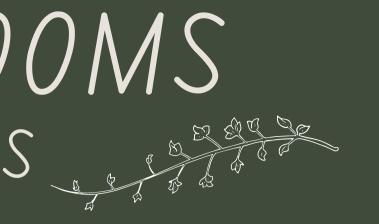
Whiteboard walls are one of the main features of our school, It is an amazing learning tool and is excellent for math/planning work



Students can choose alternative seating spaces depending on what works for them







There is storage in every classroom and especially more in science labs



All classes have an outdoor view to their unique surroundings



SchoolsNEXT