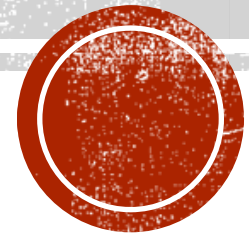


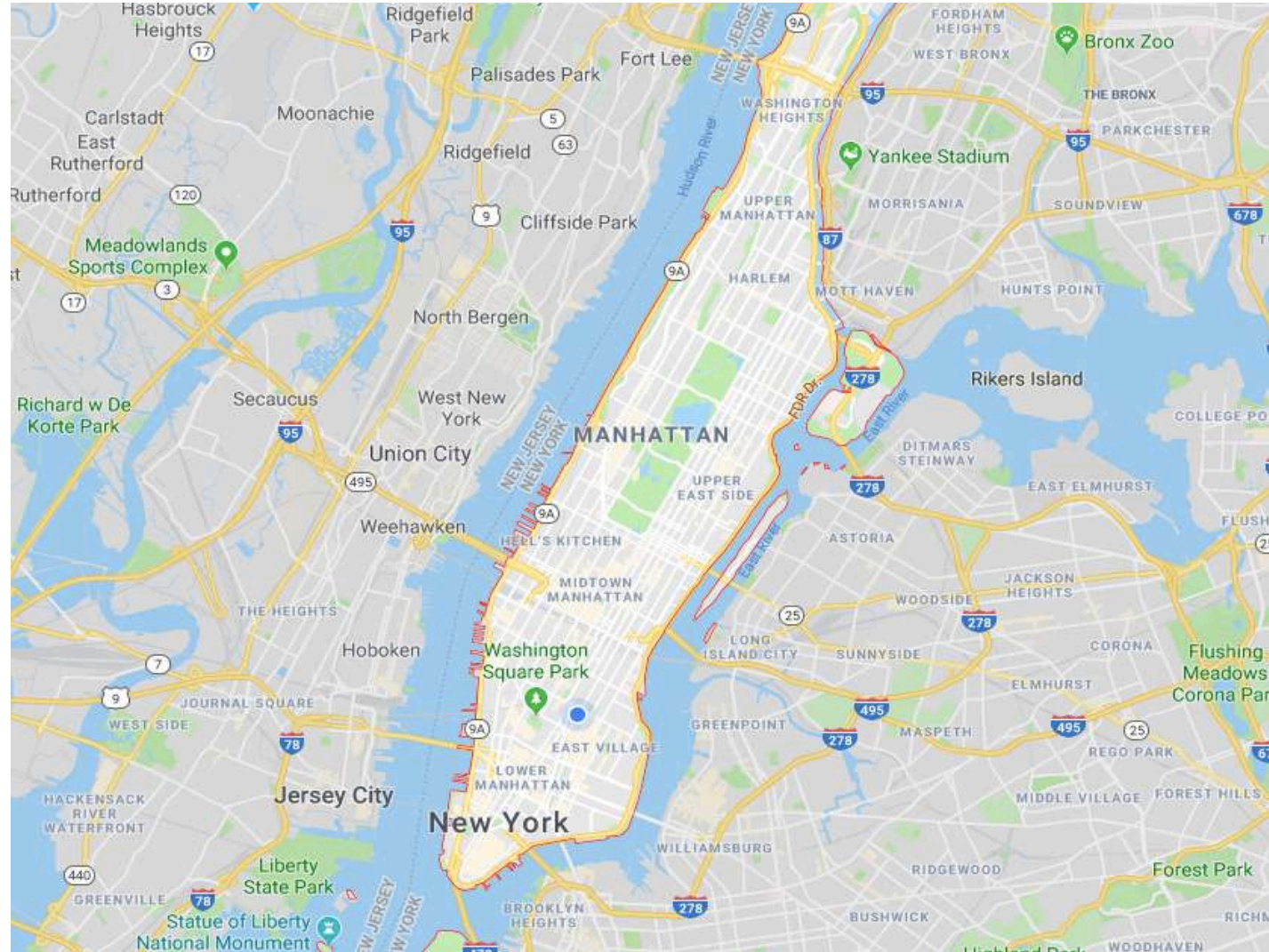
NYU CENTER FOR THE ENVIRONMENT

Lucy Yuan

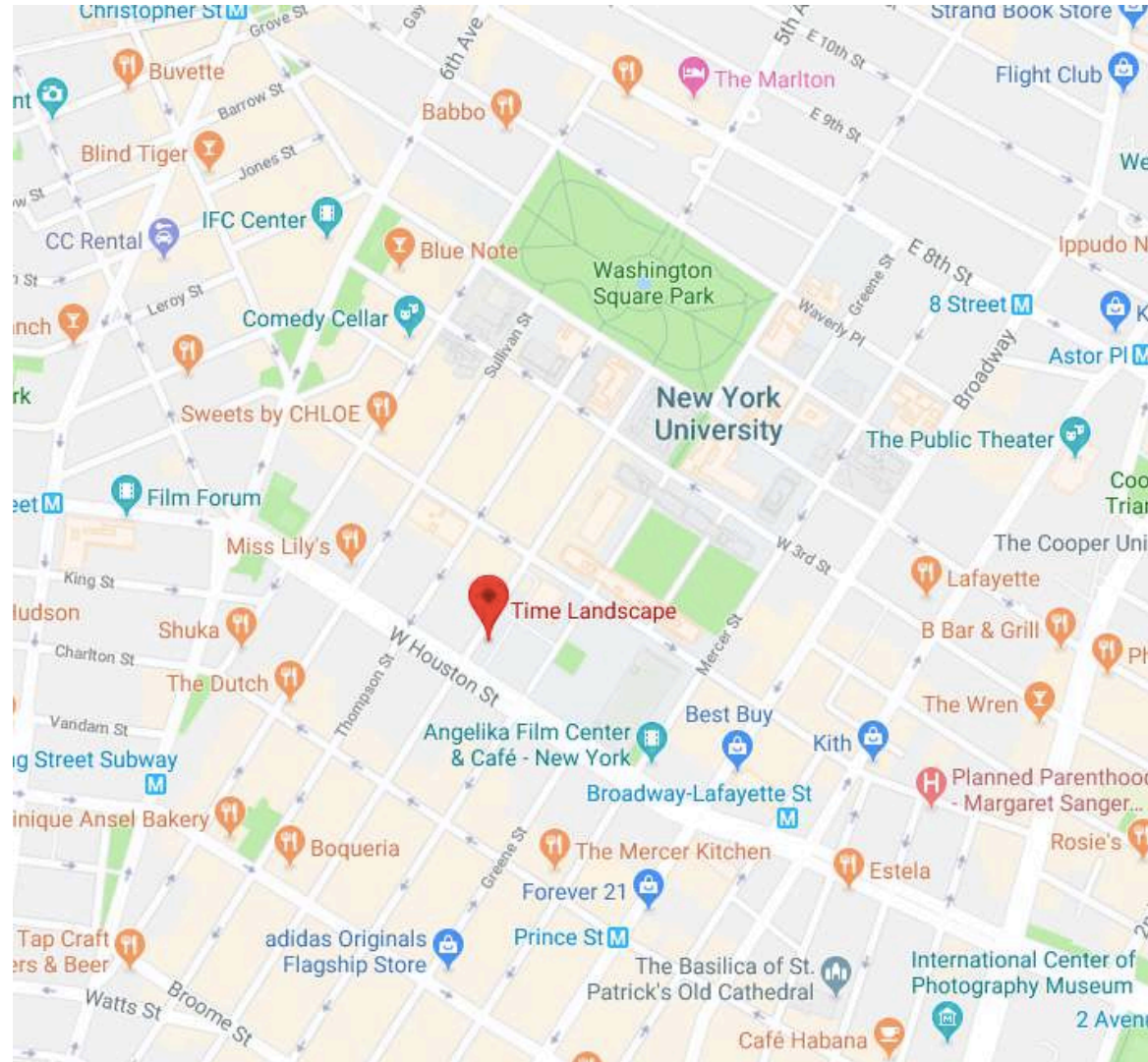
Environmental Design: Professor Phifer



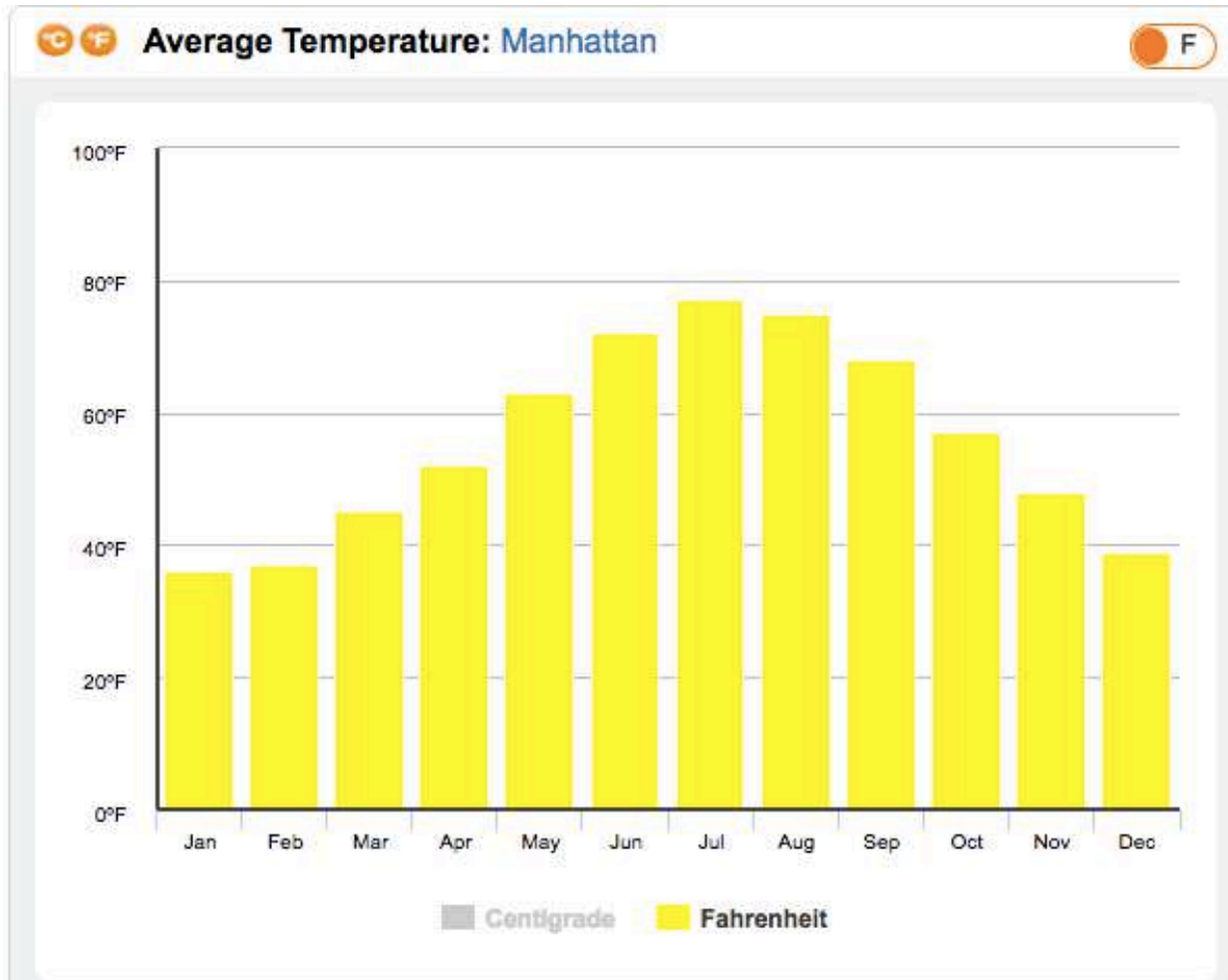
LOCATION



LOCATION



CLIMATE

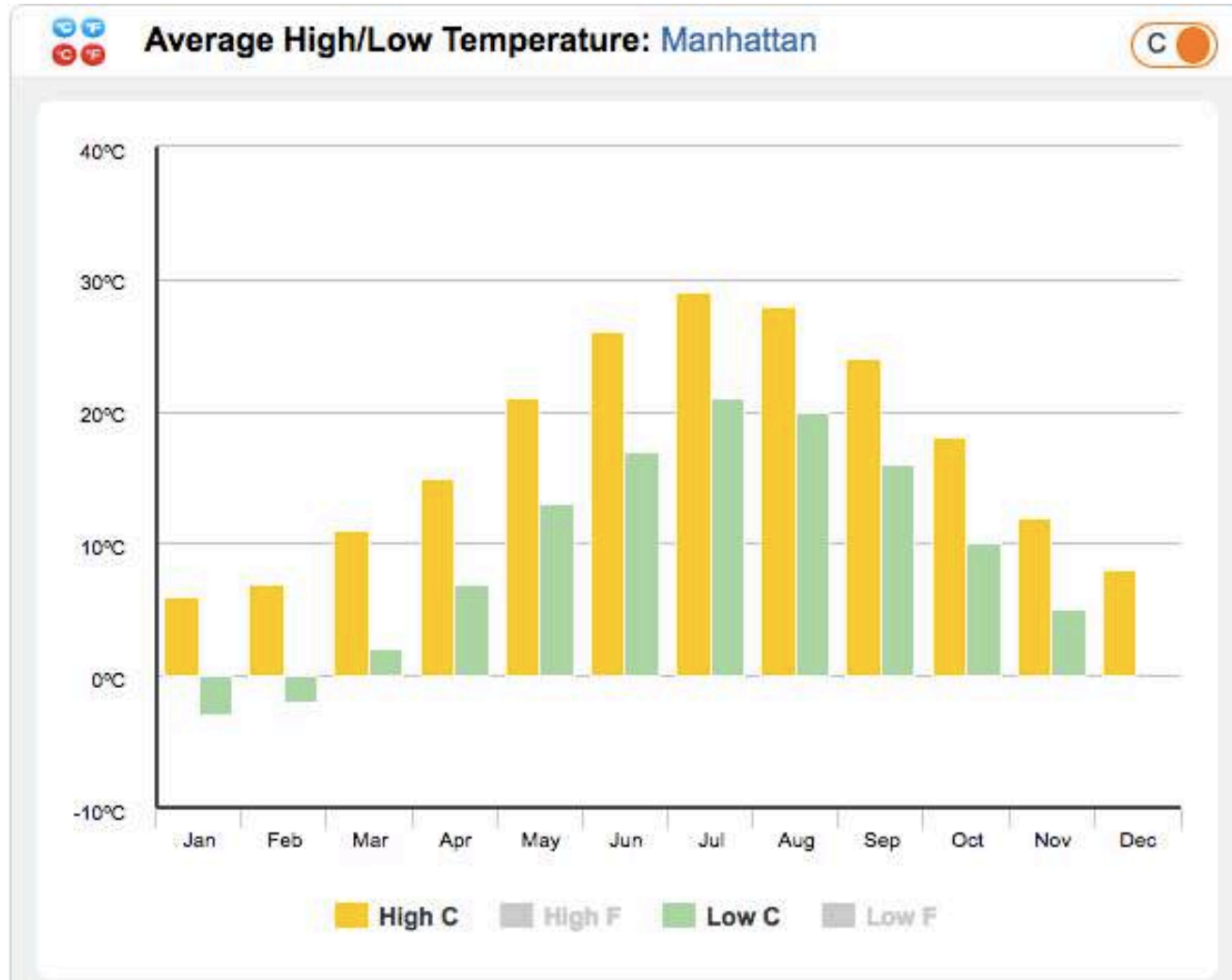


	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
°C	2	3	7	11	17	22	25	24	20	14	9	4
°F	36	37	45	52	63	72	77	75	68	57	48	39

- Hottest month is July at 77°F
- Coldest month is January at 36°F



CLIMATE



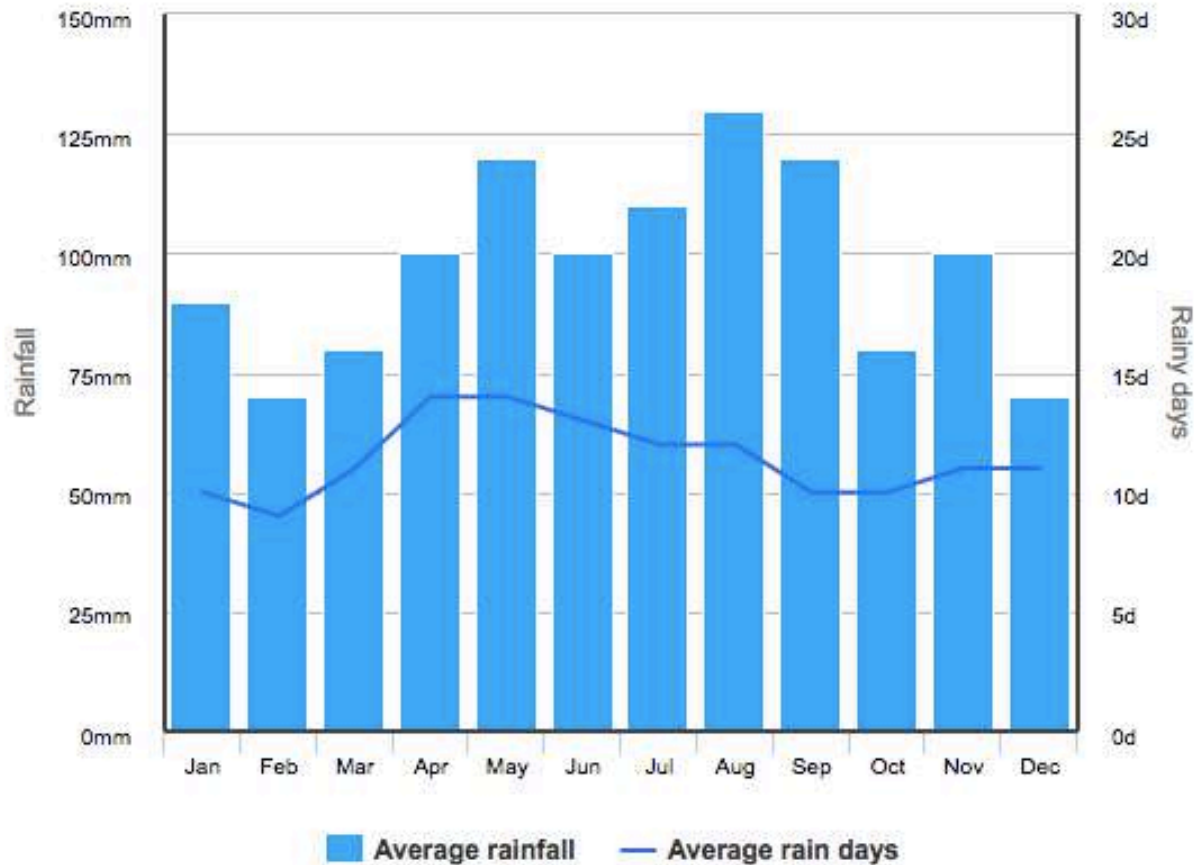
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
High °C	6	7	11	15	21	26	29	28	24	18	12	8
High °F	43	45	52	59	70	79	84	82	75	64	54	46
Low °C	-3	-2	2	7	13	17	21	20	16	10	5	0
Low °F	27	28	36	45	55	63	70	68	61	50	41	32



CLIMATE



Average Rainfall: Manhattan



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
mm	90	70	80	100	120	100	110	130	120	80	100	70
Days	10	9	11	14	14	13	12	12	10	10	11	11

- 47.2 inches of rain on average annually
 - U.S average is 38.1 inches
- 25.8 inches of snow on average annually
 - U.S average is 27.8 inches

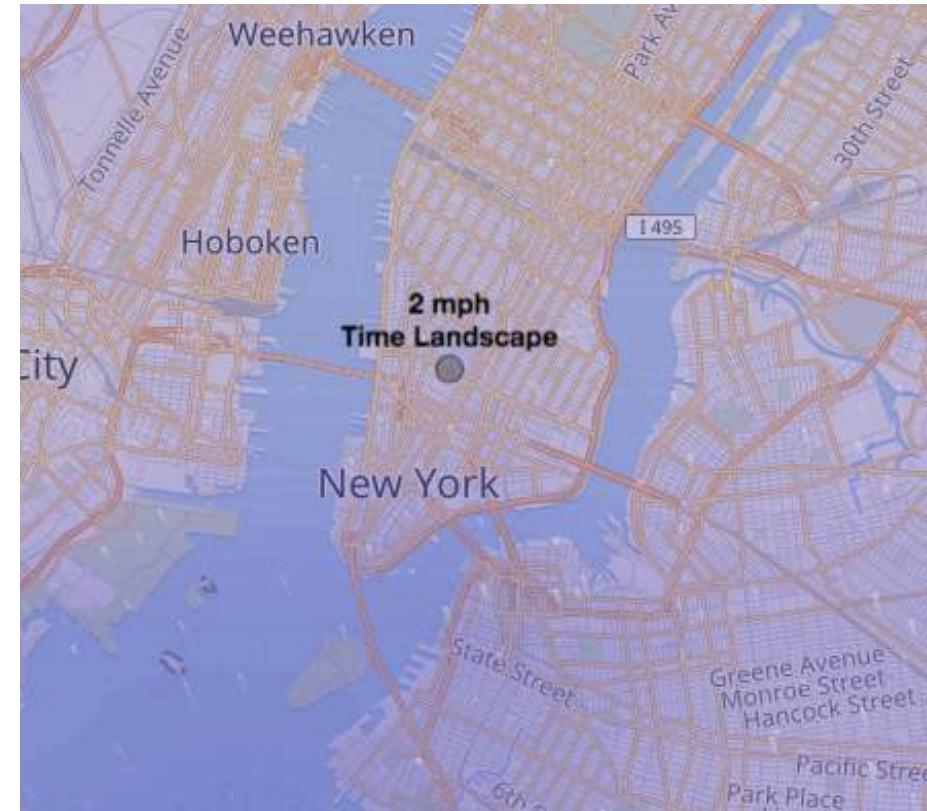


CLIMATE

May 11th, 2019



8:00 AM → NW to SE



8:00 PM → Mostly S to N



CLIMATE

June 21st, 2019



8:00 AM → N to S

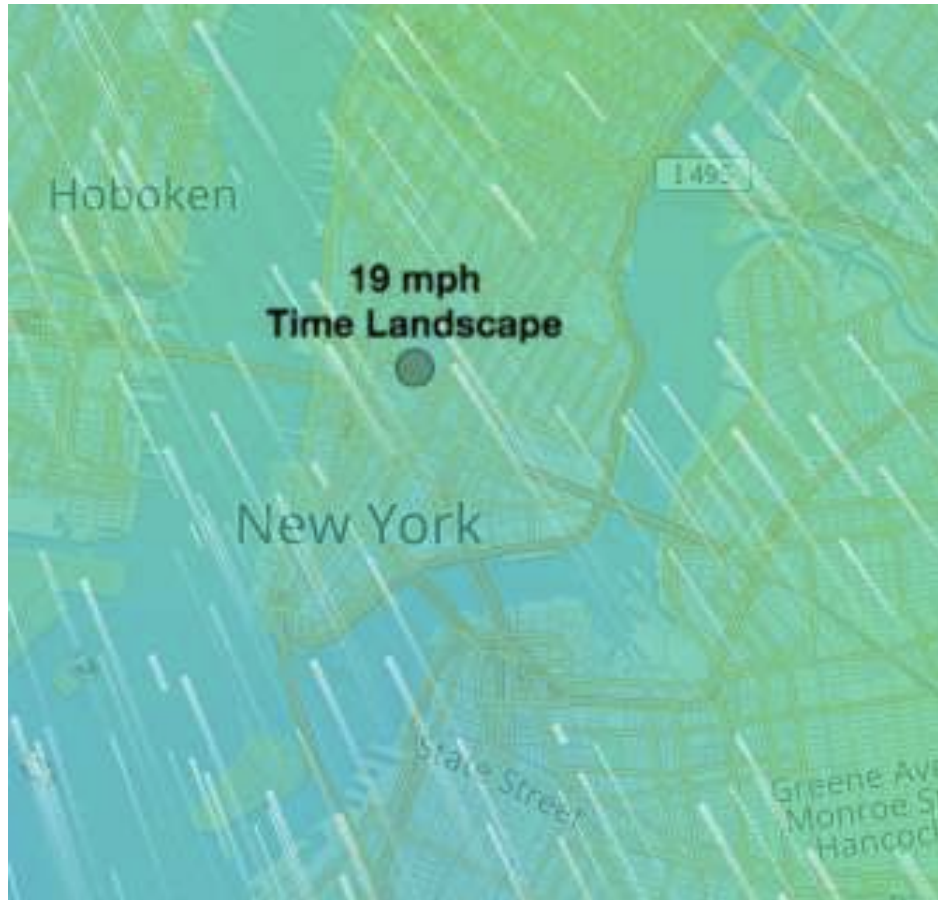


8:00 PM → S to N

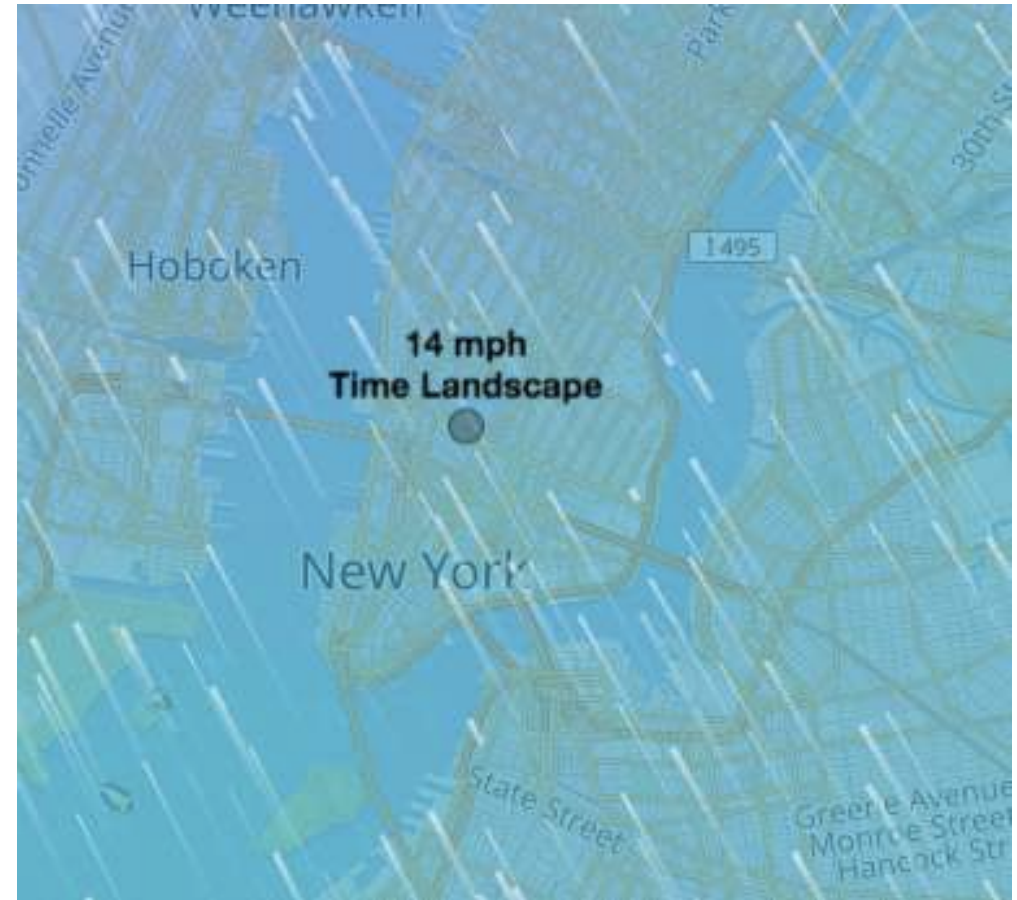


CLIMATE

December 21st, 2018



8:00 AM → SE to NW



8:00 PM → SE to NW

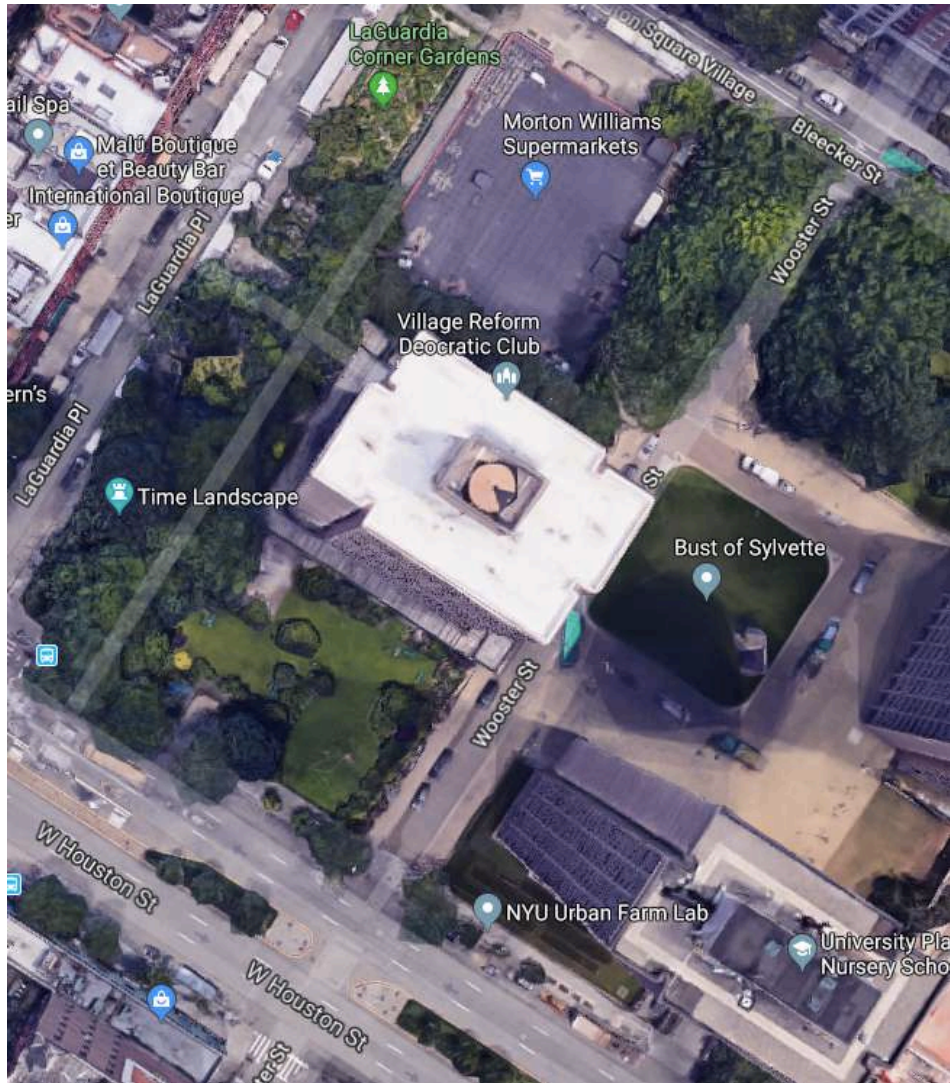


CLIMATE

- May 11th, 2019; 12:00 PM
 - Daylight duration: 14 hours, 7 minutes, 39 seconds
 - Sunrise: 5:43 AM
 - Sunset: 8:01 PM
- June 21st, 2018; 12:00 PM
 - Daylight duration: 15 hours, 6 minutes, 34 seconds
 - Sunrise: 5:24 AM
 - Sunset: 8:31 PM
- December 21st, 2018; 12:00 PM
 - Daylight duration: 9 hours, 15 minutes, 55 seconds
 - Sunrise: 7:16 AM
 - Sunset: 4:31 PM



SITE



- Corner of La Guardia Place and W. Houston Street
- East of Time Landscape
- South of I.M. Pei tower
- N 40°43'36", W 73°59'56"



SITE

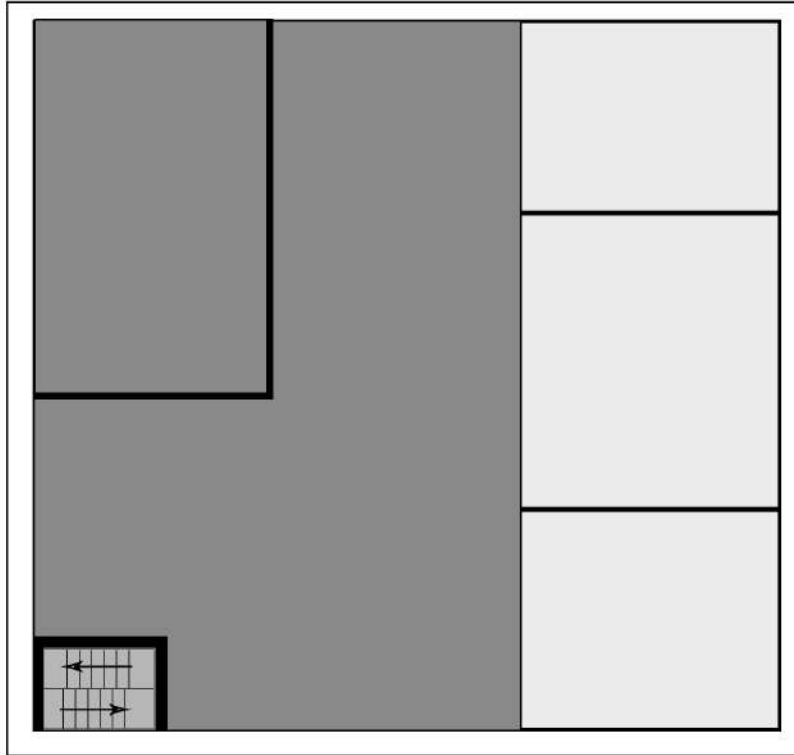


- Total site area: 16,027 sqft
- Total building area: 10,408 sqft
- Black rectangle indicates building location
- Tan rectangle indicates outdoor courtyard area



FLOOR PLAN

Basement

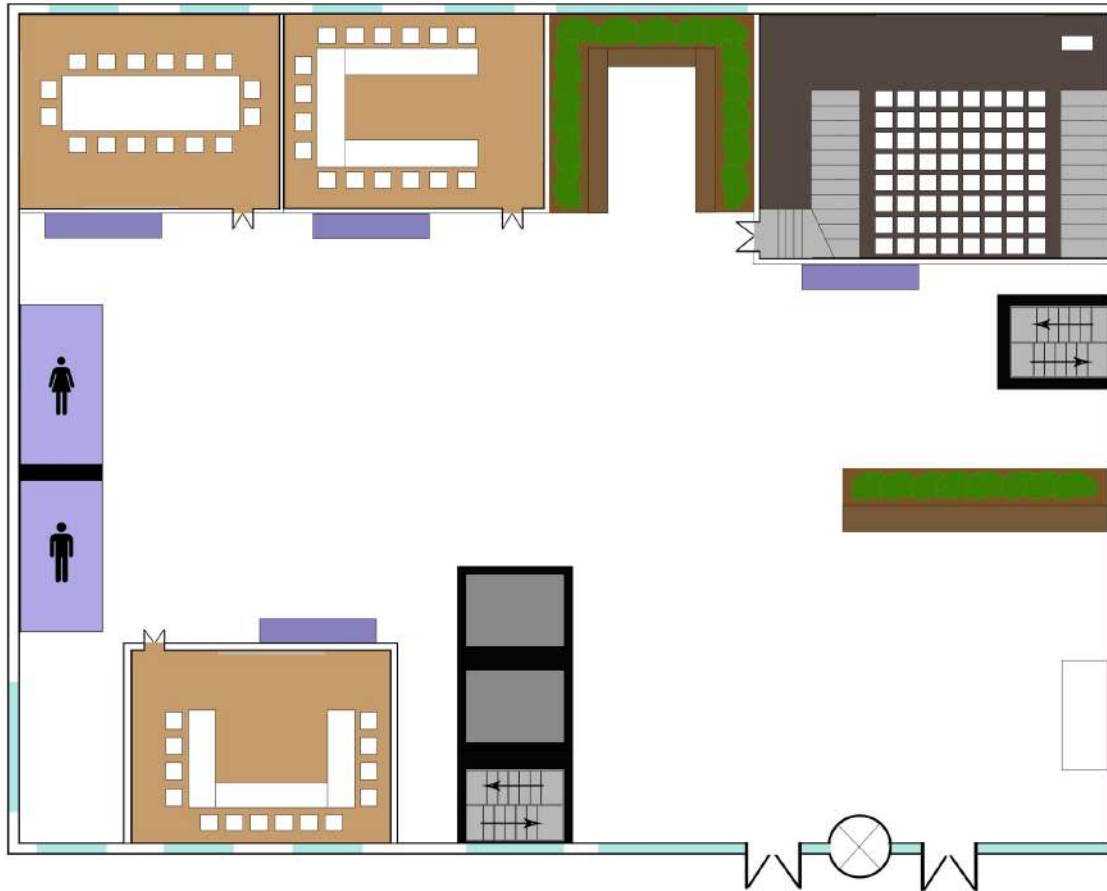


- This is where the mechanical stuff is kept
- Geothermal tanks
- Plumbing systems
- Electricity system/grid such as power and internet connection



FLOOR PLAN

1st Floor



- Bottom left part of the floor is the main lobby
- All the white open space is mainly for gallery/exhibition space where companies and students could showcase their work
- This floor has 2 elevators and 2 staircases
- There is a lecture hall and 3 classrooms

FLOOR PLAN

2nd Floor



- Small balcony like area overlooking the lobby with plantings
- Another lecture hall and classroom
- Printing lab connected to the study lounge (with computers provided)
- Reference library



FLOOR PLAN

3rd Floor

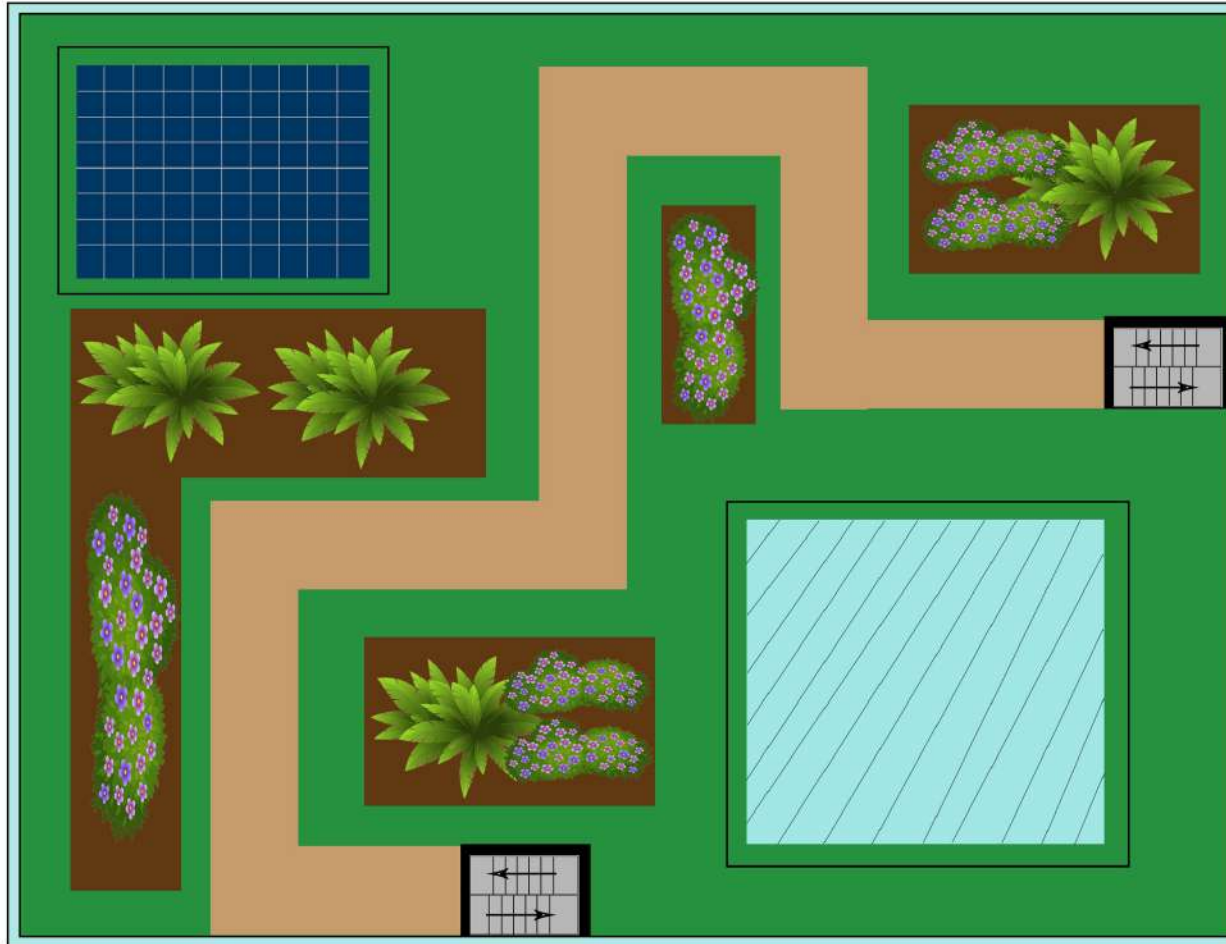


- Small balcony like area like the floor below
- Offices for professors and administrative staff
- Printing room for professors and staffs
- Lounge area where students and other people could wait before meeting with professors or staff
- Offices are surrounded by a glass wall
- Seating area outside the offices



FLOOR PLAN

Roof



- Bottom left corner has a glass area for skylight to travel down to the lobby
- High glass wall surrounding the perimeter with safety guard in front of it in order for students to be allowed up on the roof
- Solar panels located on the roof
- Small path in order for students to not walk on the plants
- Add plants that are native to New York City so it is easier to take care of

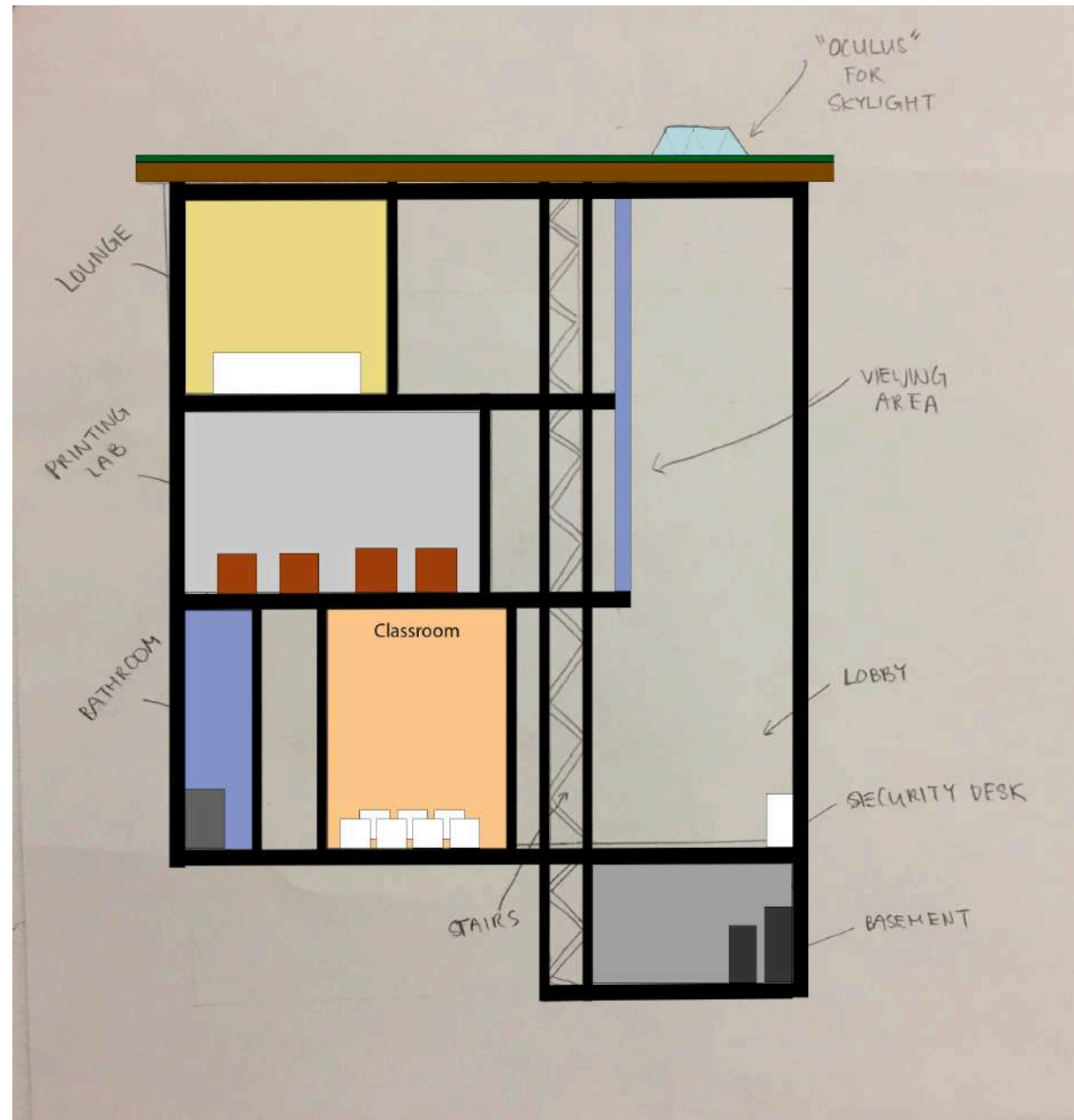


GREEN ROOF



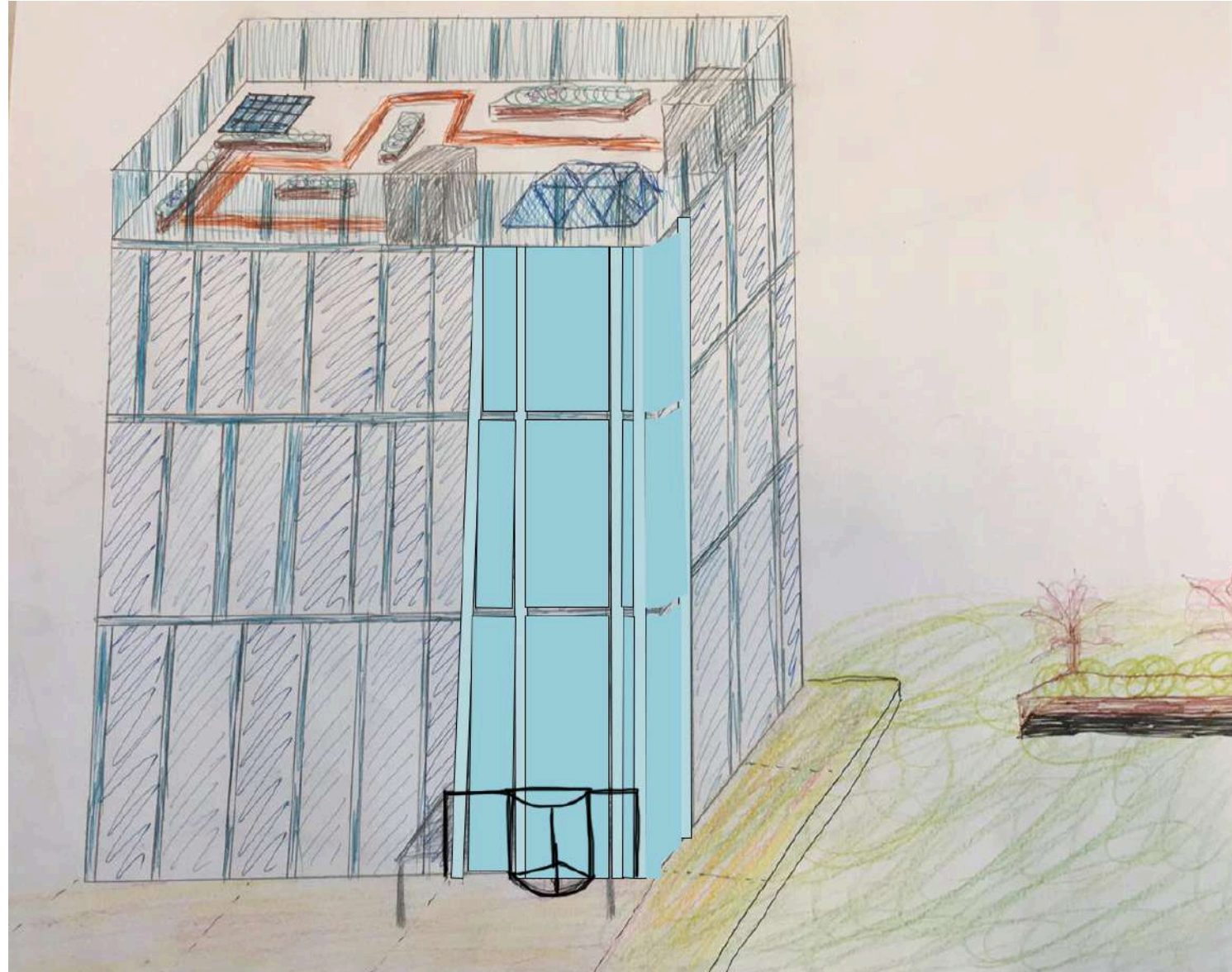
VIEW

Section Plan

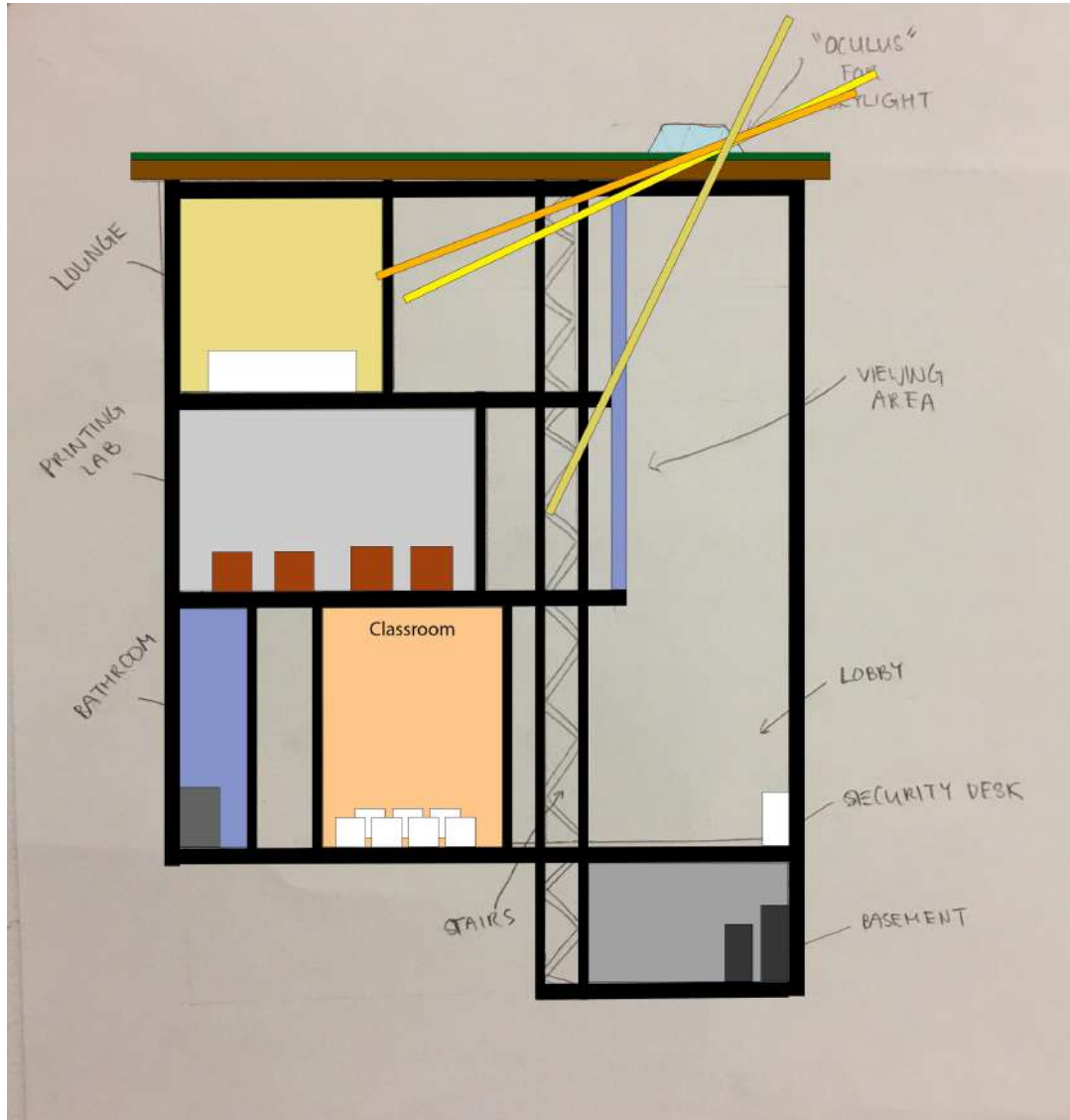


VIEW

Front Facade



SUN ORIENTATION



- Bright yellow: May 11th, 2019, 12:00 PM at a 64.33°
- Orange: June 21st, 2018, 12:00 PM at a 68.89°
- Darker yellow: December 21st, 2018, 12:00 PM at a 25.86°
- During December the sunlight will warm up the lobby from the skylight
- With the other windows in the building, the sun would be able to reach inside it.



DESIGN INSPIRATION



- Outdoor courtyard idea
- Can see into the glass building



DESIGN INSPIRATION



- Tinted glass to limit glare
- Thick windows in order to prevent cold air from entering into the building at unwanted times (during the winter)

