

IDSN 3600

FALL 2015

HEATHER SMITH

EDGEWORTH BUILDING

PORTFOLIO ONE



The Edgeworth building's co-working office space will be designed for individuals running their personal businesses or small companies. Targeting writers, bloggers, graphic designers, and other creative people who could work from home but are looking for a more exciting and stimulating place to conduct their business. The consumers are also looking for a sense of community and a mutual meeting place for presentations, conferences or events. Patrons will pay a monthly fee to use this co-working space, such as rent or a gym membership. Being located in Richmond, Virginia, this space will be inspired by the James River, located right outside the window. Focusing on all of the attributes of the river such as organic forms, rocks and plant life. The constant movement and flow of the river and the sense that it is a watering hole for many creatures; will be interpreted throughout the co-working space.

CONCEPT

PERSONNEL

Position	Personnel Totals		Unit Square Ft.		Extended Sq. Feet	Equipment			Notes
	Current	Future	Office	Workstation		PC	Printer	Fax	
					0				
Office Space	1	8	800		6400				
					0				
Director					0	0			Locate near Reception
					0				
Administrative Assistant					0	0	1		Locate directly outside Mgr office
					0				
					0				
					0				
					0				
Personnel Totals:	1	8			6400	0	1	0	

Department Summary Information:		
Personnel	6400	Square Ft.
Equipment	1100	Square Ft.
Sub Total:	7500	Square Ft.
Circulation	1.54	
Total Carpetable:	11550	Square Ft.

Interviewee:
 Interview Date:
 Revision Submitted:
 Sign Off:

SUPPORT/EQUIPMENT SPACES

Space	Support/Equipment		Unit Square Feet	Extended Sq. Feet	Location	Notes
	Current	Future				
				0		
Waiting Area	1	1	200	200	Visible from Admin Asst	Seating for 4 guests
				0		
Pantry	0	1	100	100	Near Admin Assts	
				0		
Fax/Copy	0	1	120	120	Near Admin Assts	
				0		
Storage	1	1	100	100		Shelving
				0		
File Drawers	50	60	3	180		3-Hi cabinets
				0		
Executive Conference Room	1	1	400	400	Adjacent to Waiting Area	Full AV
				0		
Support Totals:				1100		

Department Notes:
 Entire company is progressive
 Space is attractive

PROGRAM

SUPPORT/EQUIPMENT SPACES						
Space	Support/Equipment		Unit Square Feet	Extended Sq. Feet	Location	Notes
	Current	Future				
				0		
				0		
				0		
Concept Lounge	0	5	500	2500		
				0		
Work Stations	0	5	500	2500	Adjacent to Teams	Work counters
				0		
Storage	0	1	200	200	Next to Work Area	Shelving
				0		
Rec Space	1	1	700	700		
				0		
				0		
				0		
Support Totals:				5900		

SUPPORT/EQUIPMENT SPACES						
Space	Support/Equipment		Unit Square Feet	Extended Sq. Feet	Location	Notes
	Current	Future				
				0		
Reception	1	1	300	300	Direct access to Broadcast, Executive, Mktg	Waiting for 6, TV's
				0		
Conference Room	1	2	300	600	Shared by all areas	Full AV
				0		
Computer Server Room				0	Near Account Admin	Work counter, outlets Raised floor, secure, 3 racks
Copy/Fax Station	1	2	120	240	Spread throughout	Work counter
Pantry	1	2	100	200	Spread throughout	Coffee, sink, refrigerator, cabinets
Lunch Room	0	1	400	400		Full kitchen, seating
				0		
Mechanical Room	0	1	300	300	Near Base Building air supply	Supplemental Air
				0		
Support Totals:				2040		

PROGRAM

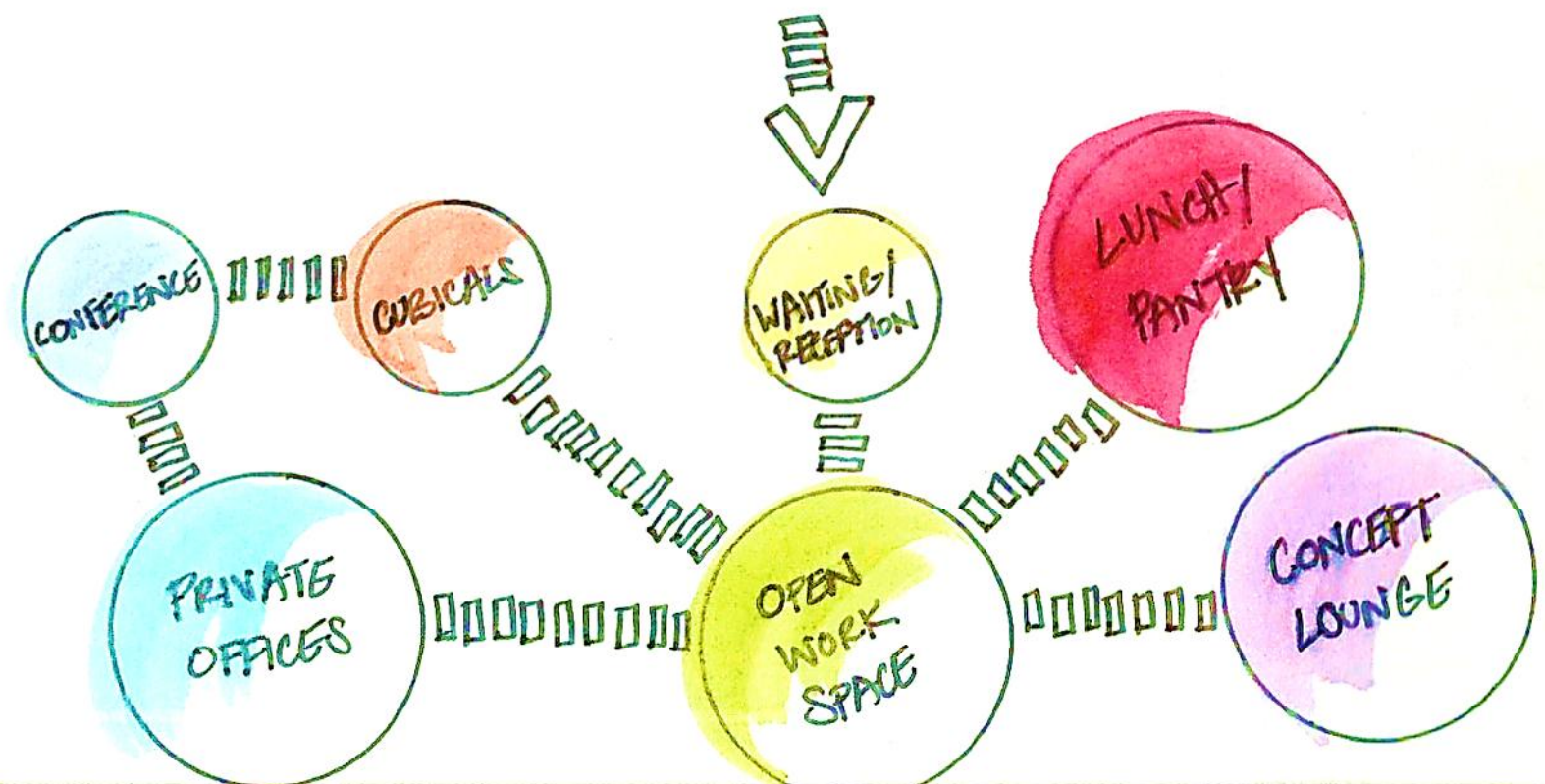
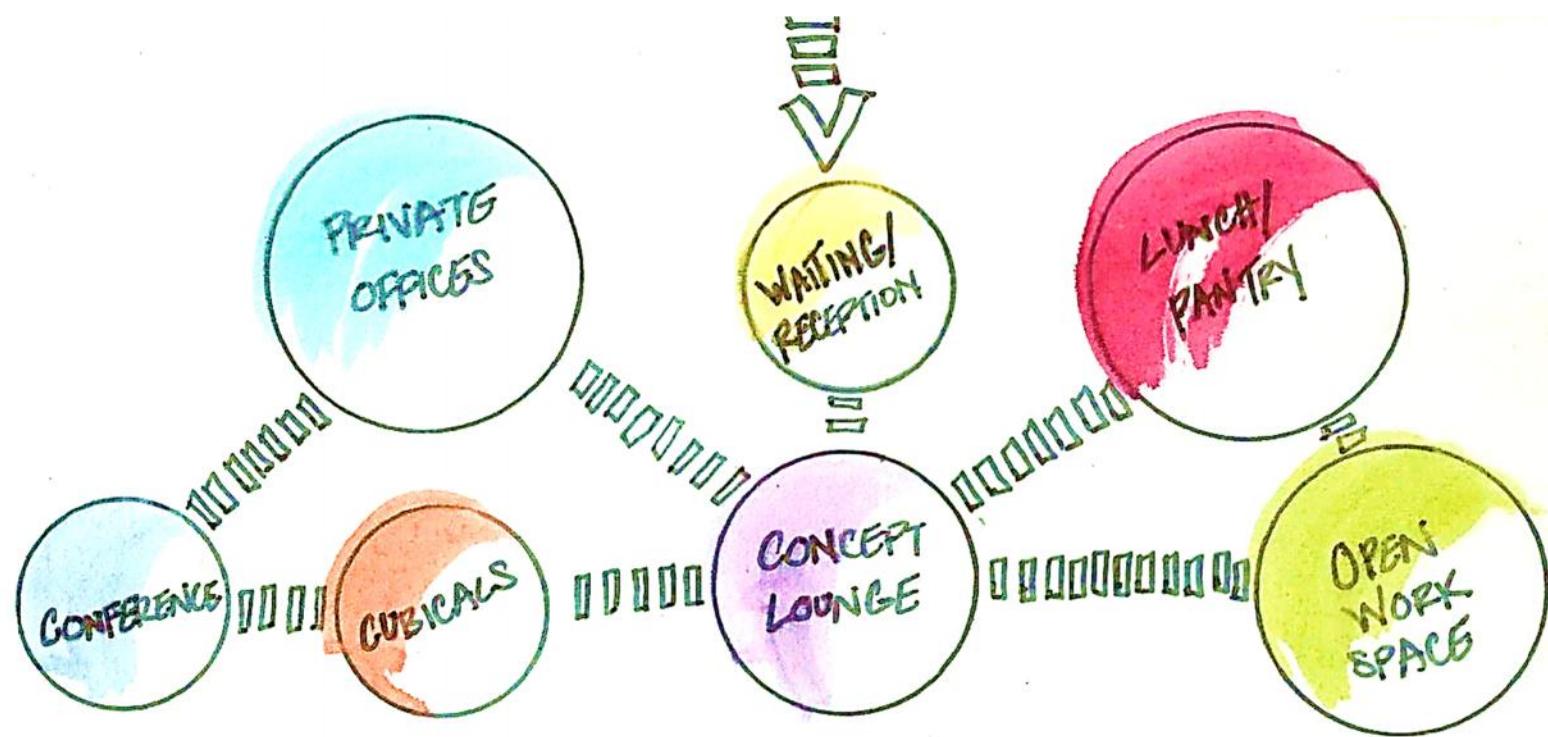
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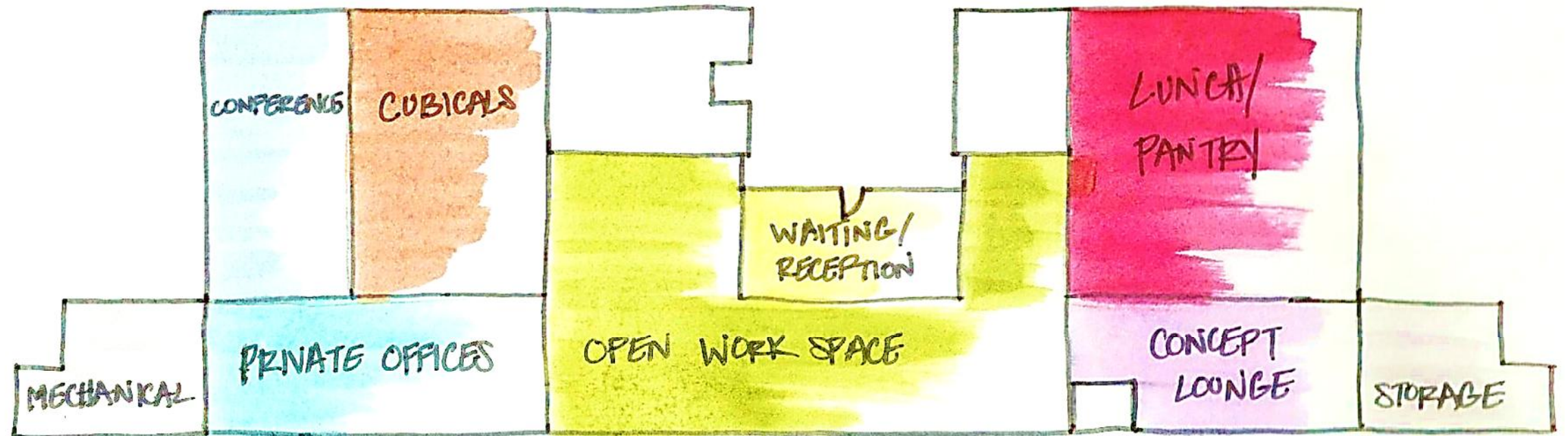
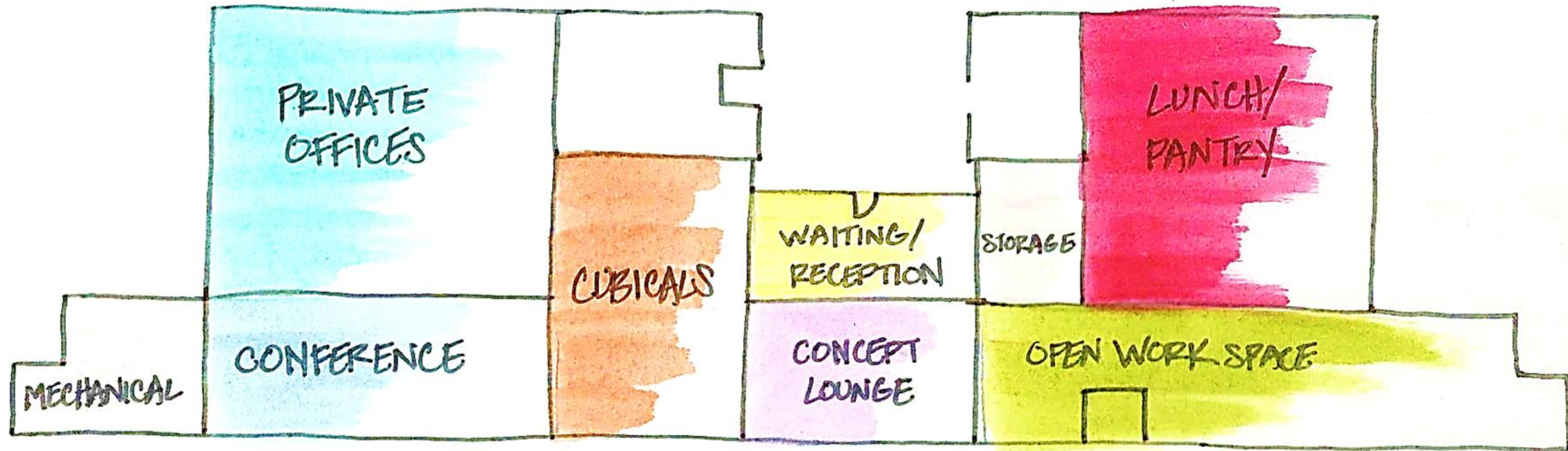
HEATHER SMITH

EDGEWORTH BUILDING

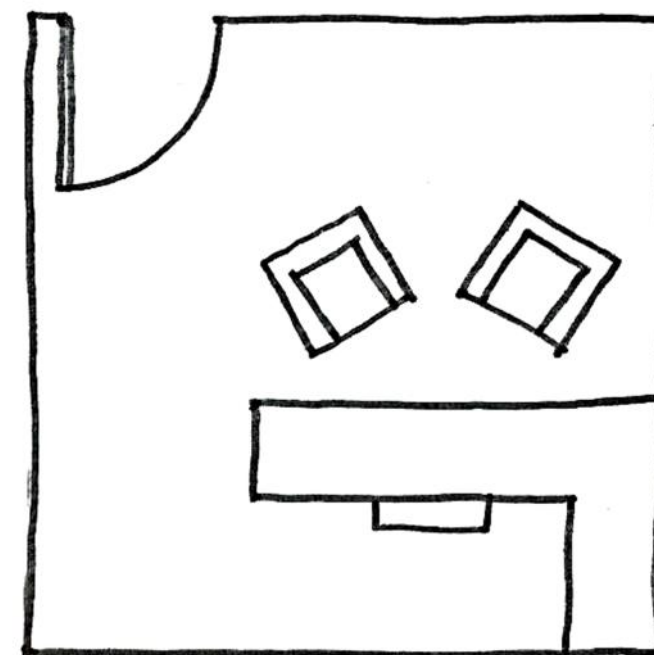
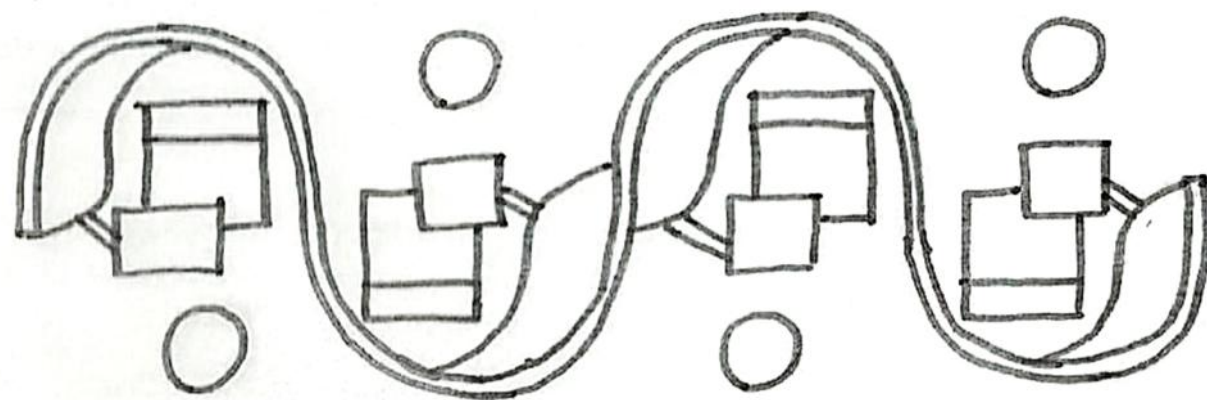
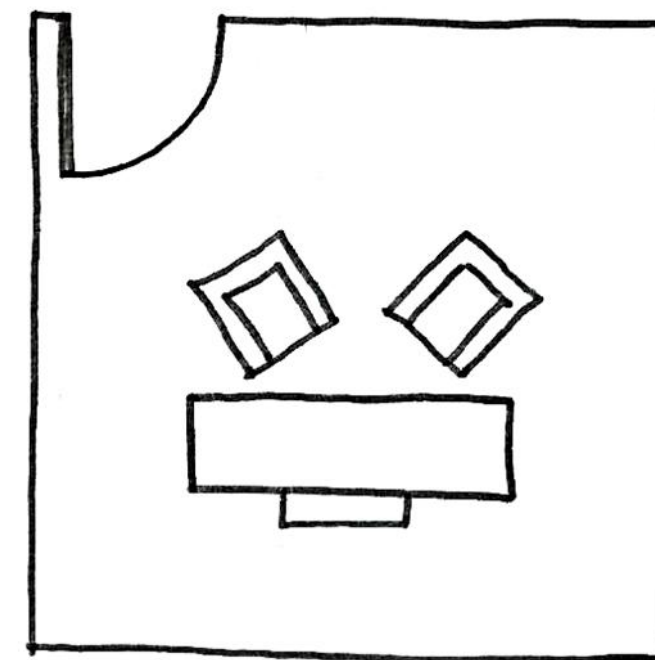
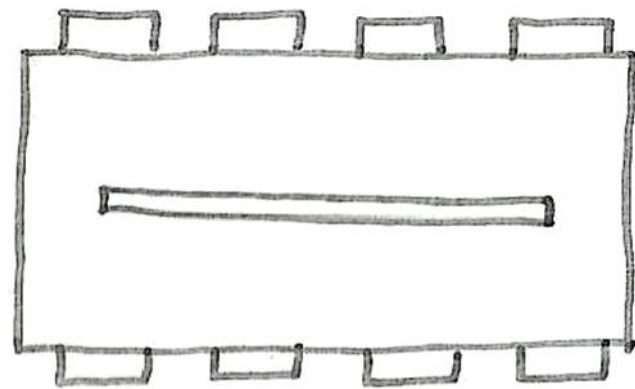
PORTFOLIO TWO



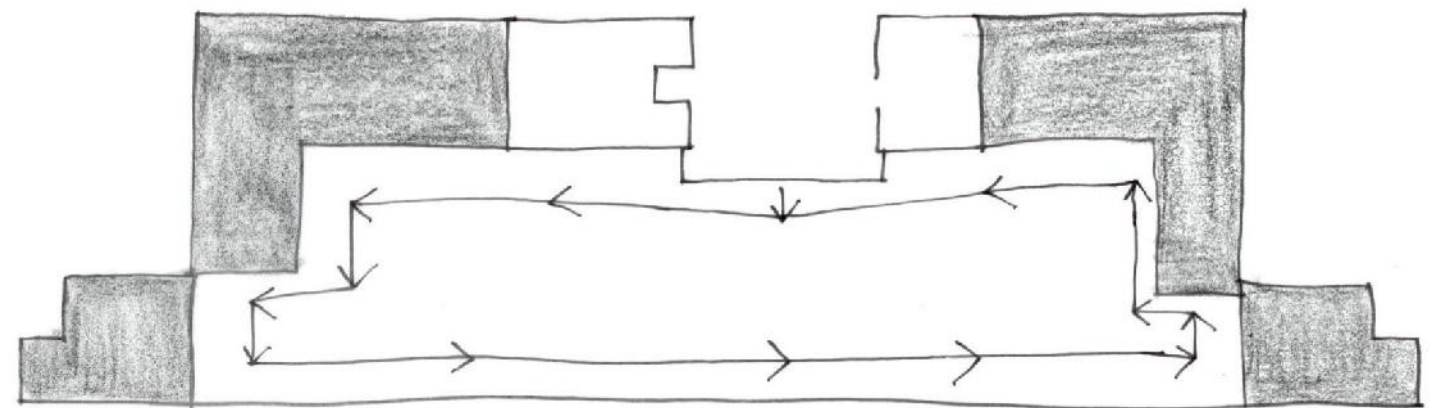
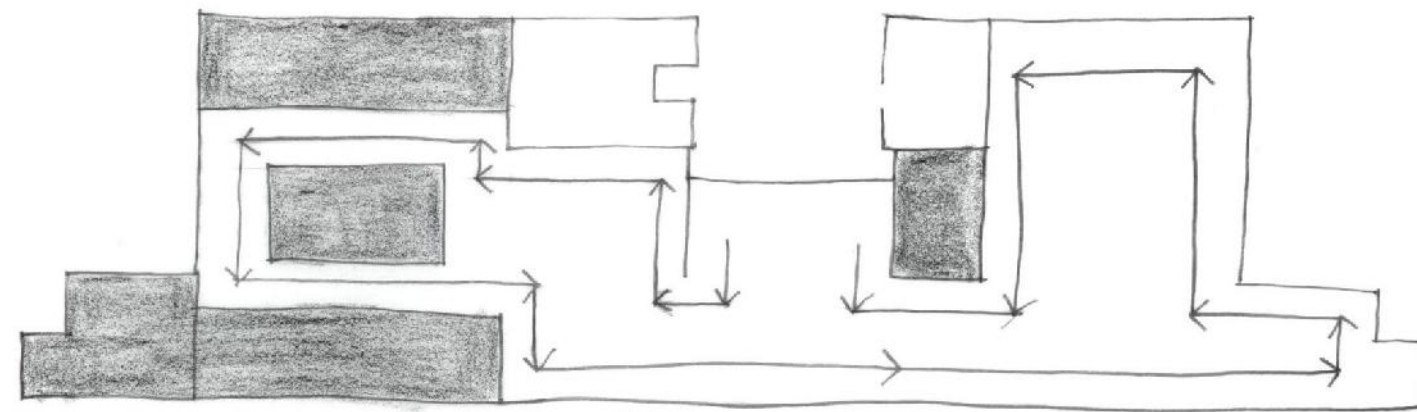
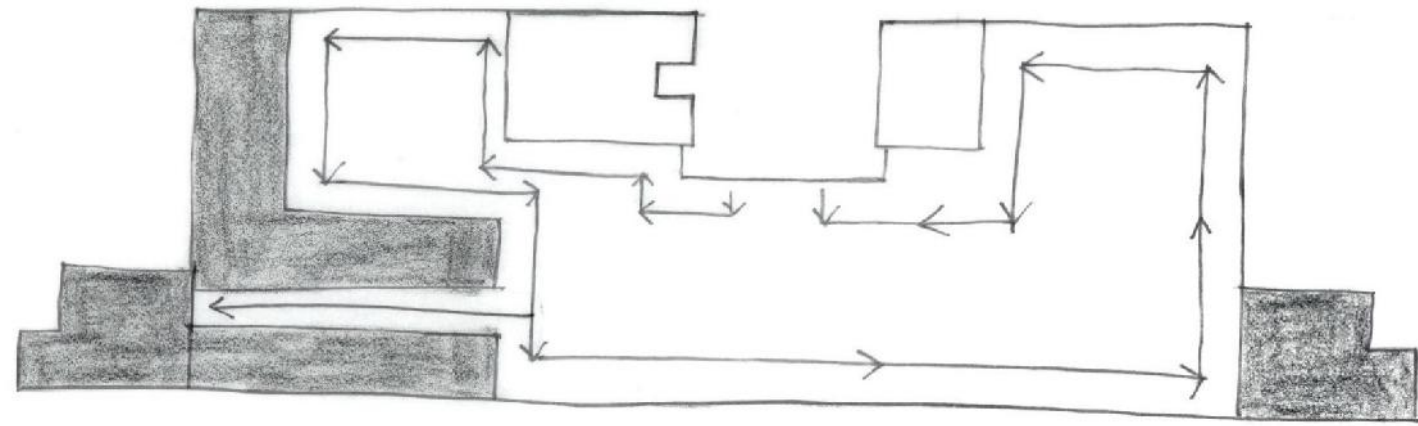
BUBBLE DIAGRAMS



BLOCK DIAGRAMS



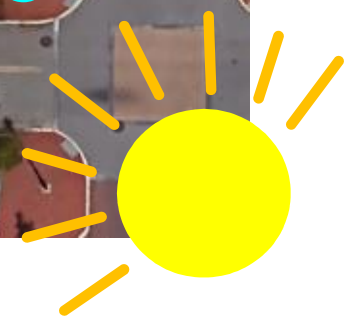
SPACE STANDARDS



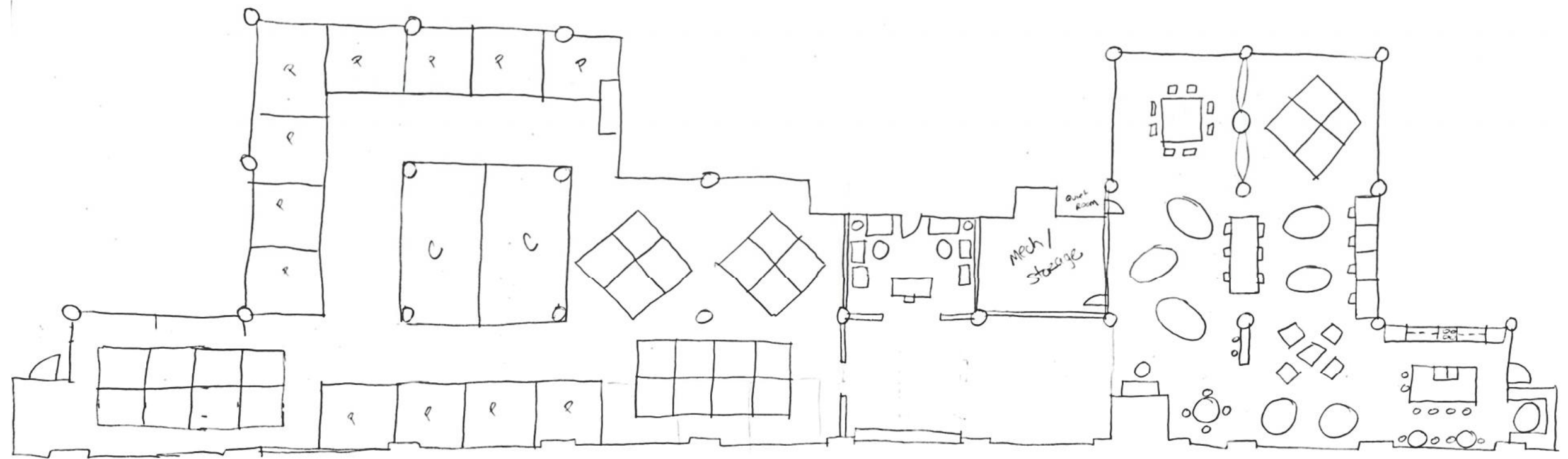
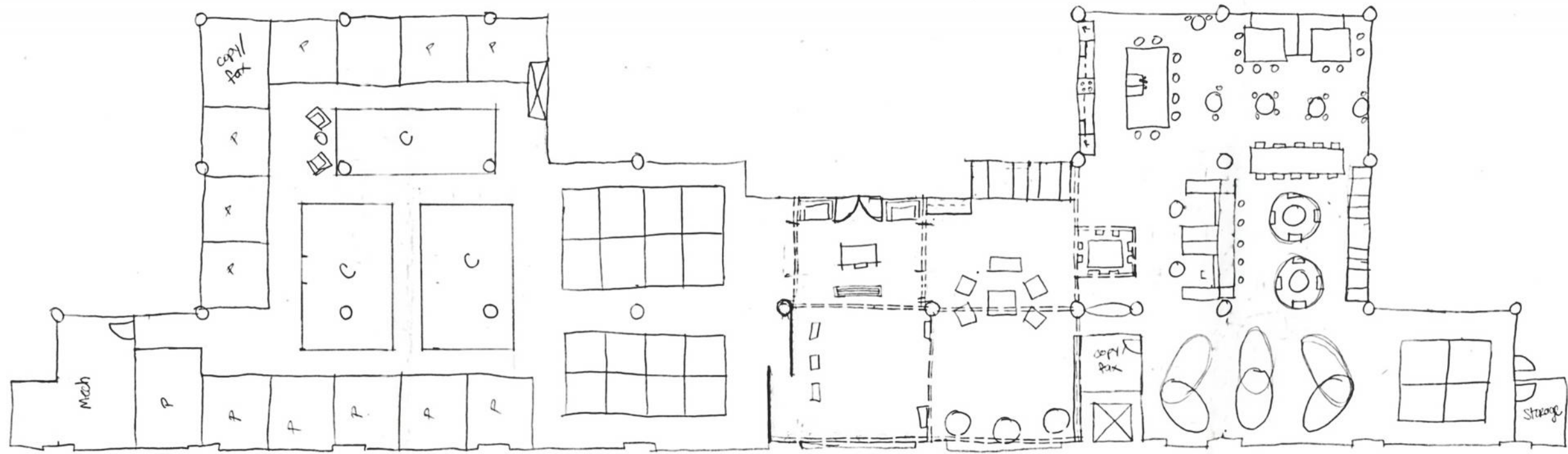
SPACIAL CONCEPTS



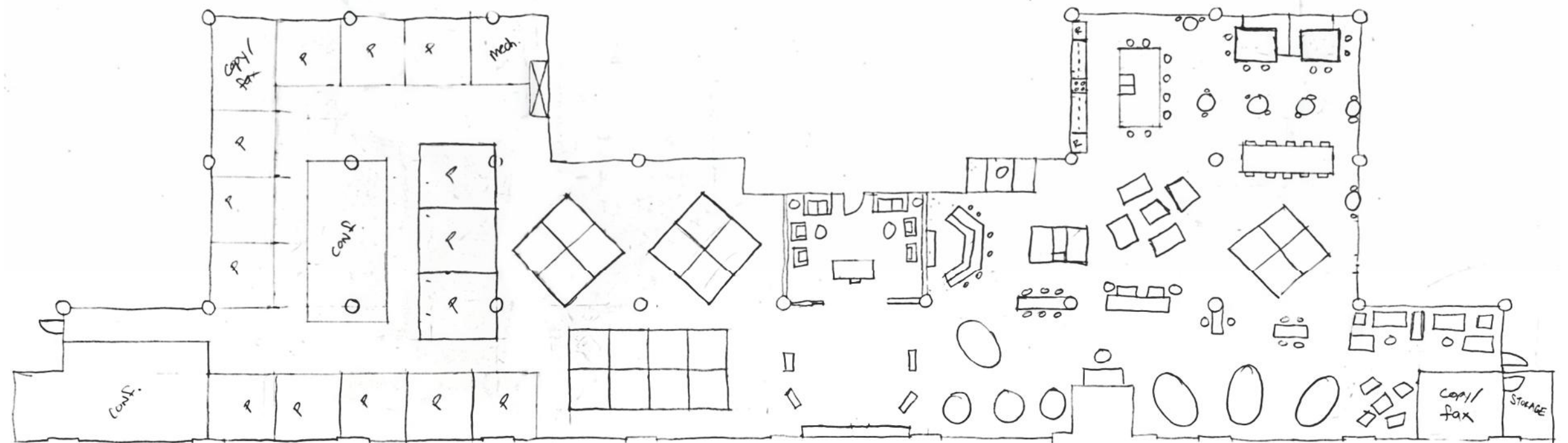
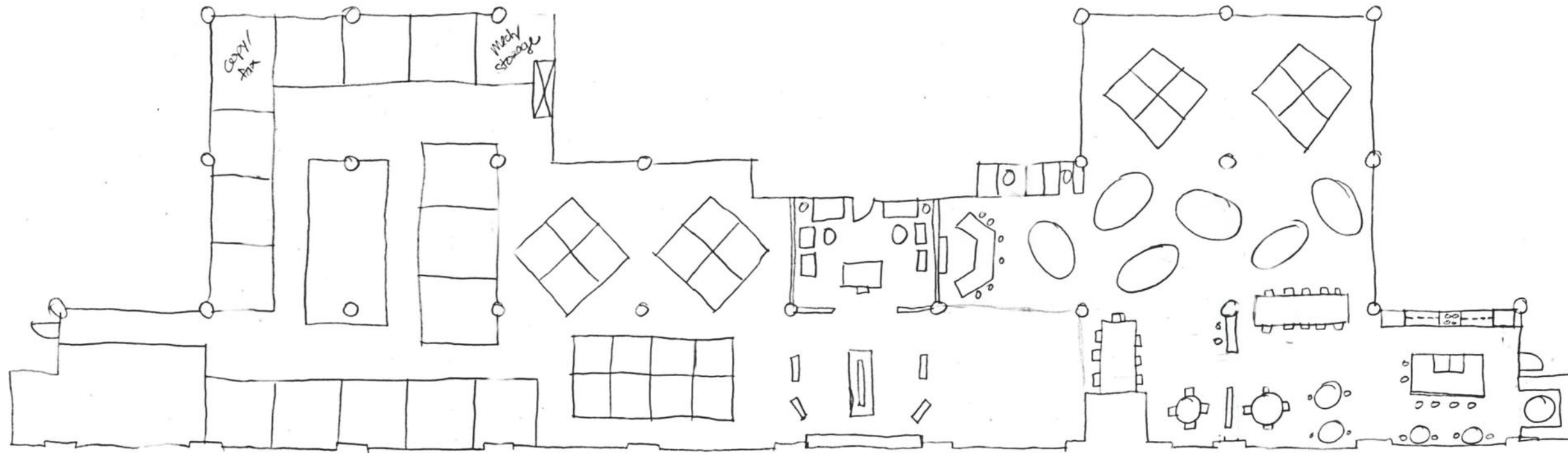
★ Emergency exit stair



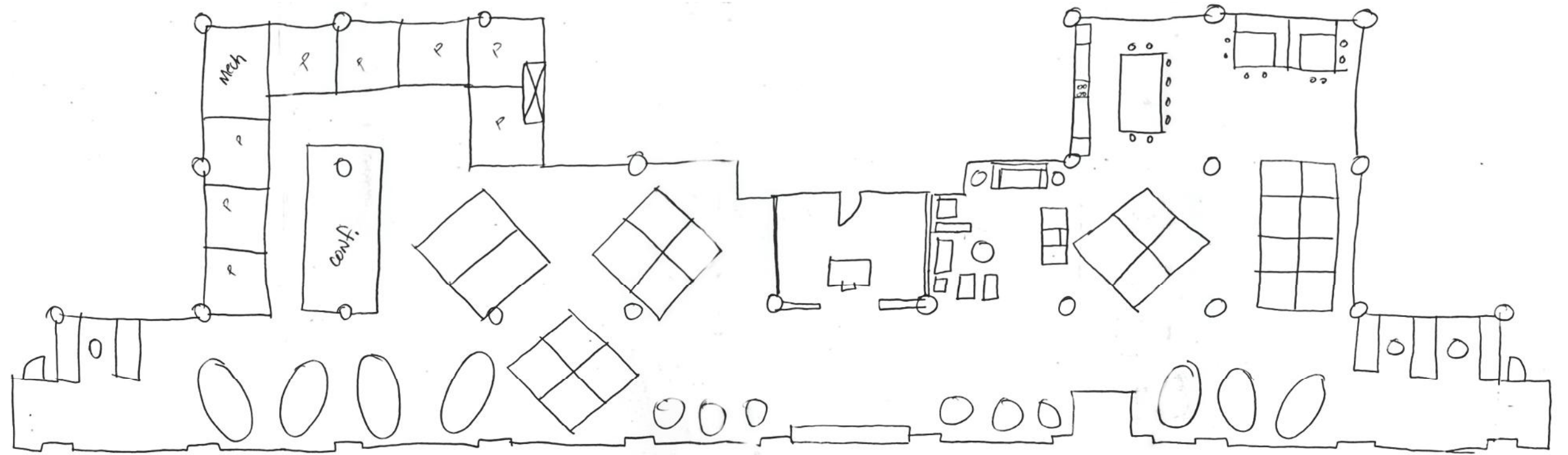
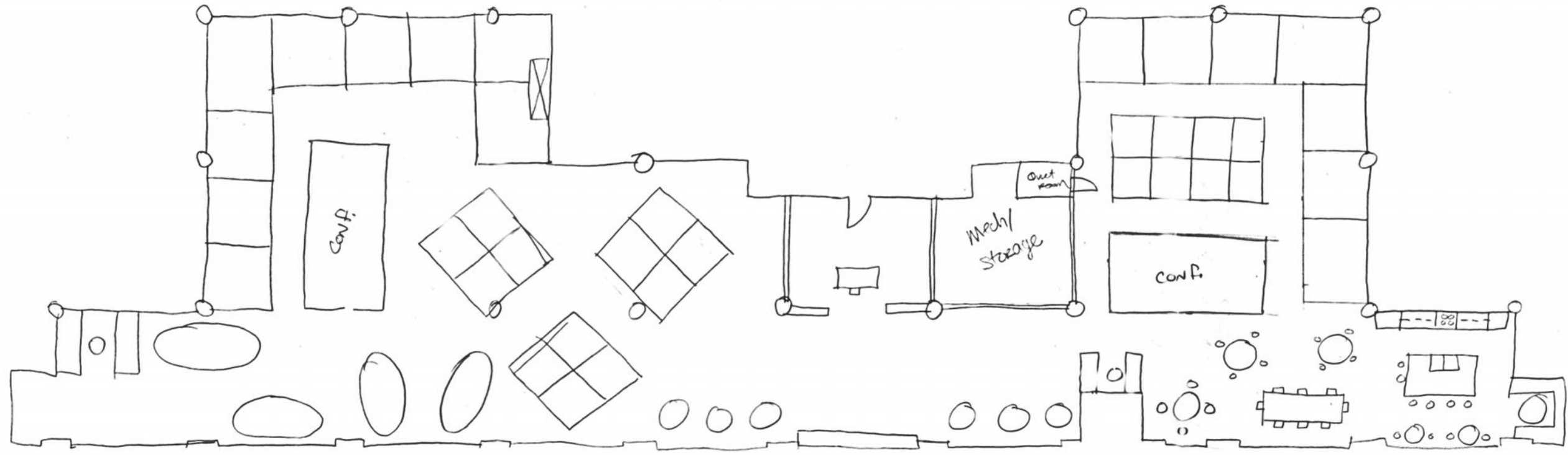
SITE EVALUATION



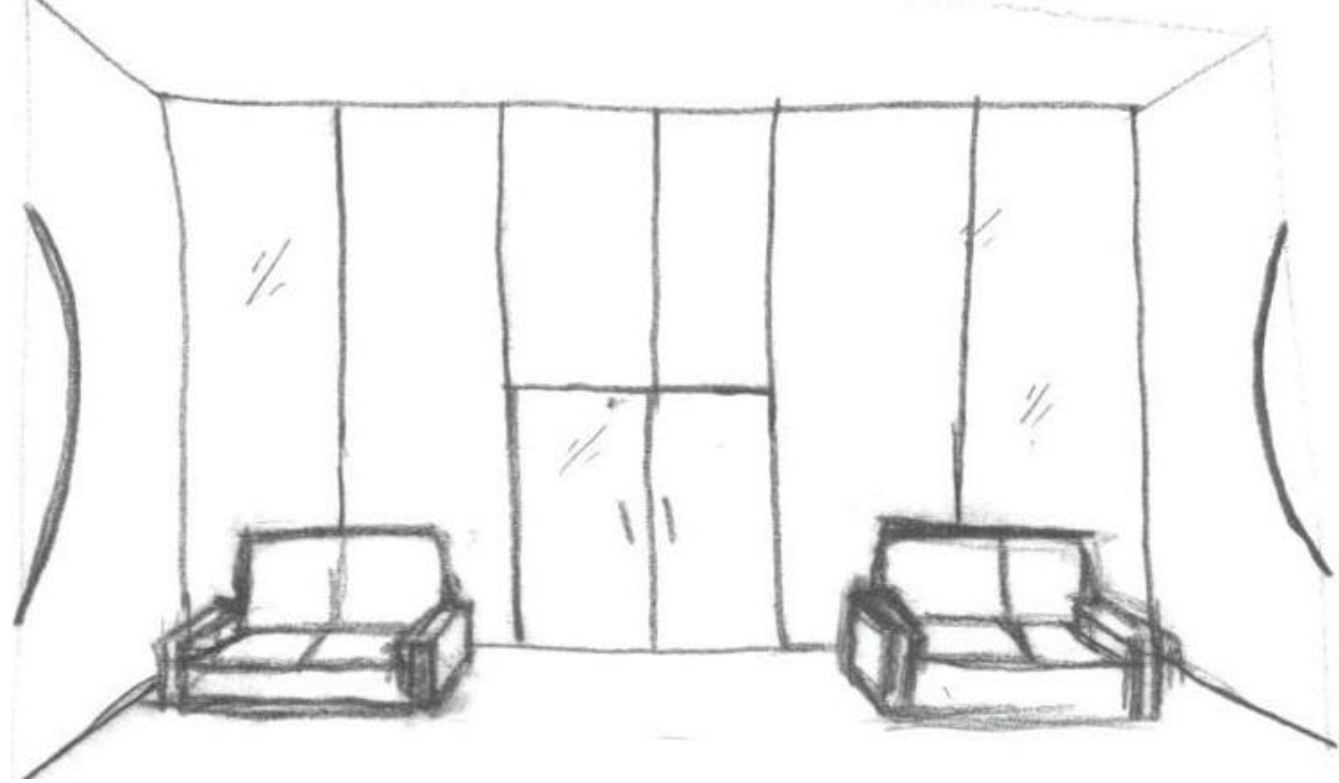
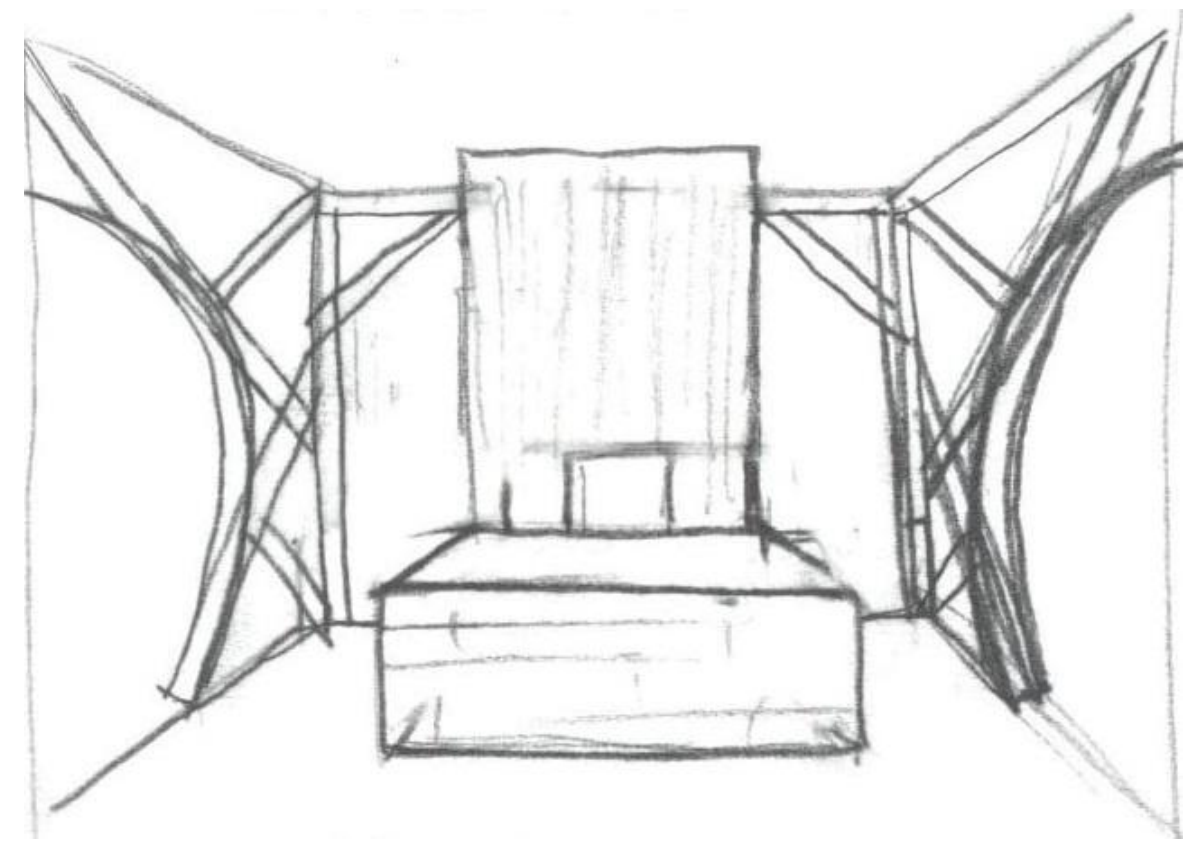
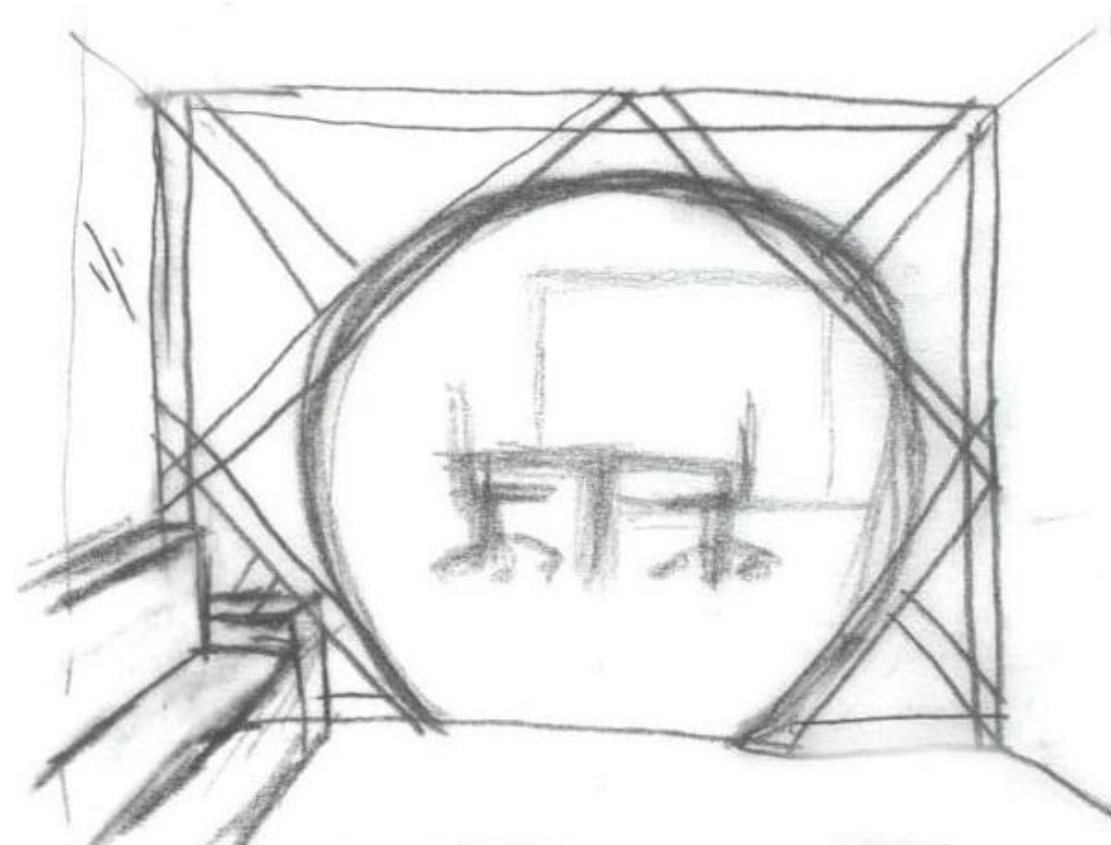
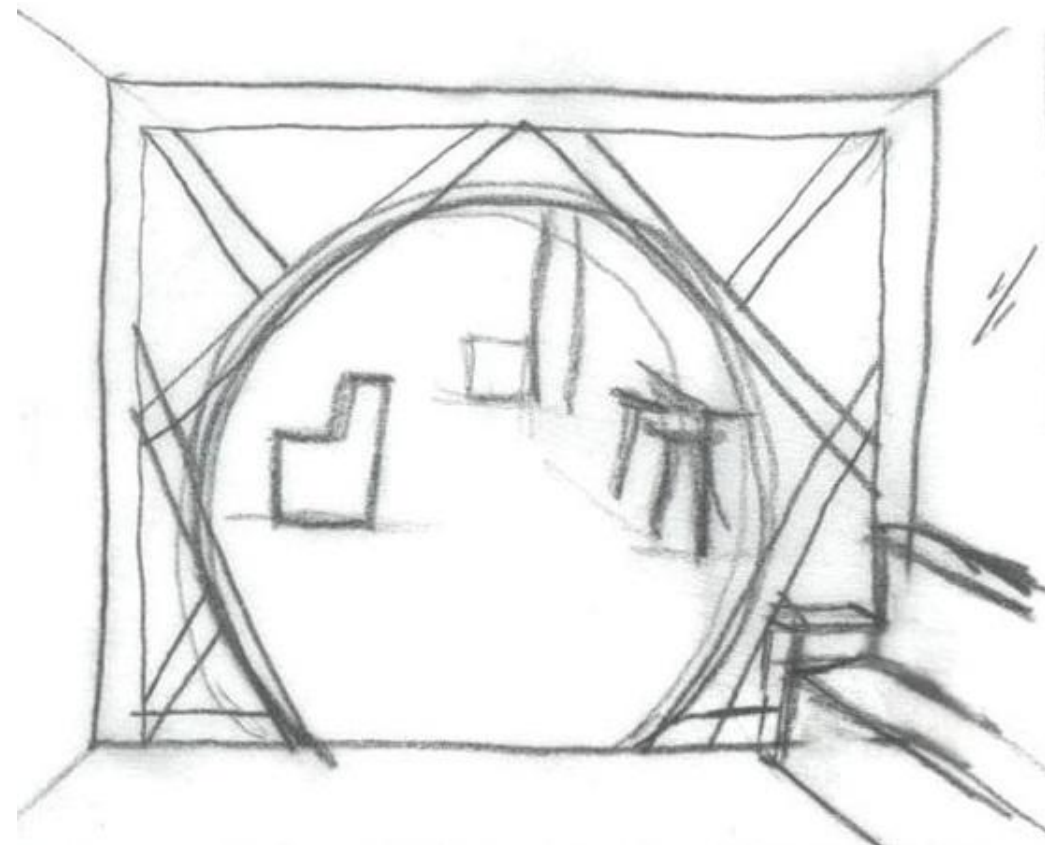
SPACE PLAN SKETCHES



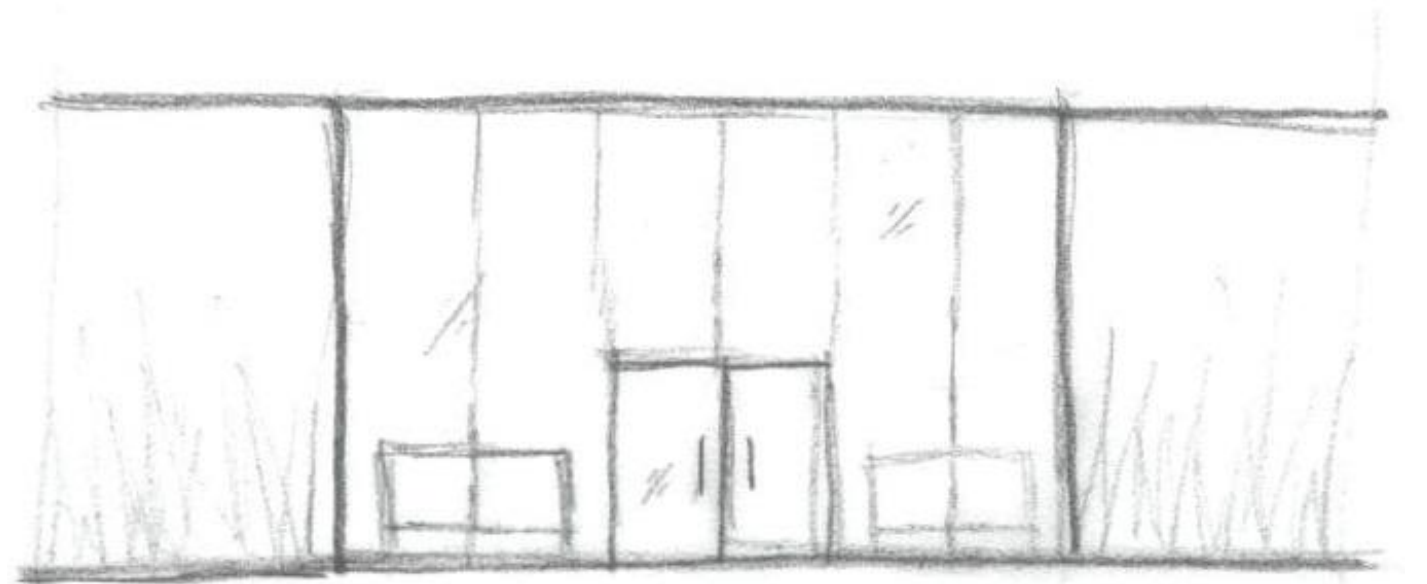
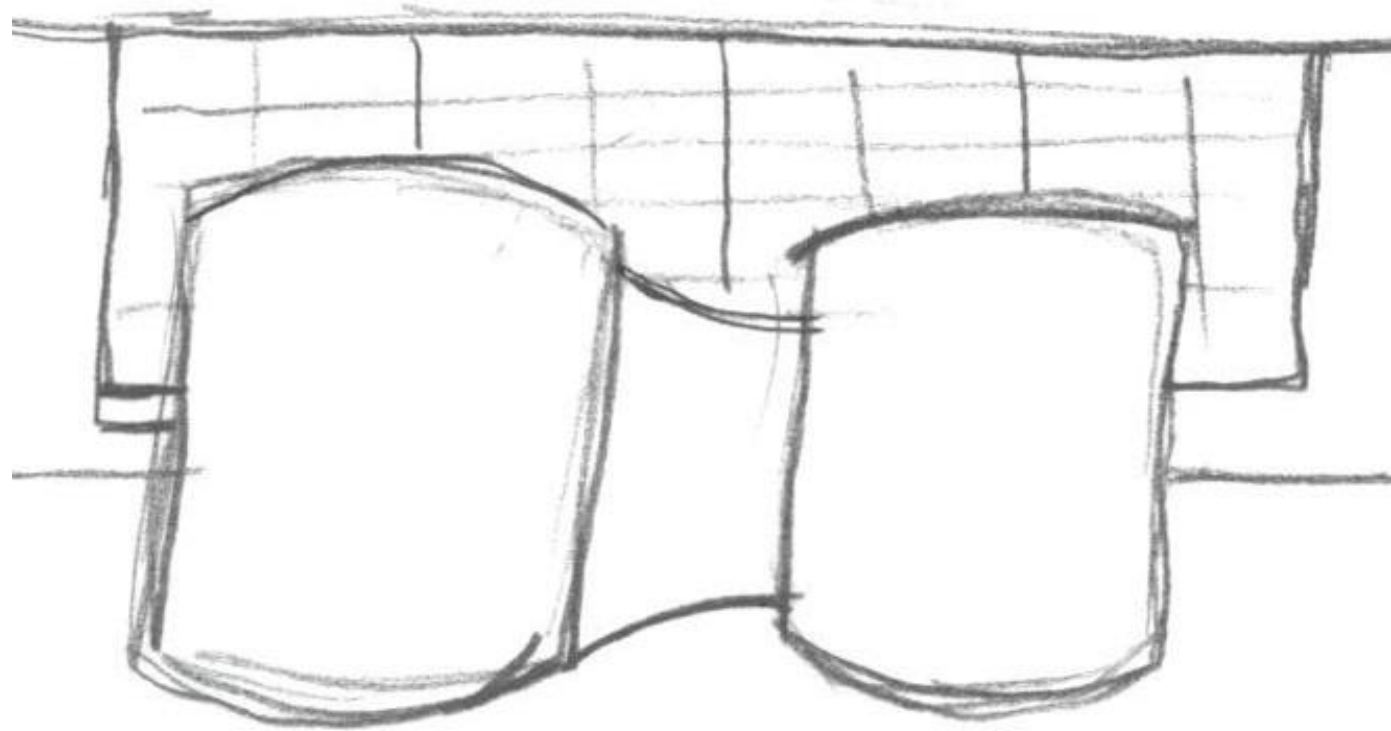
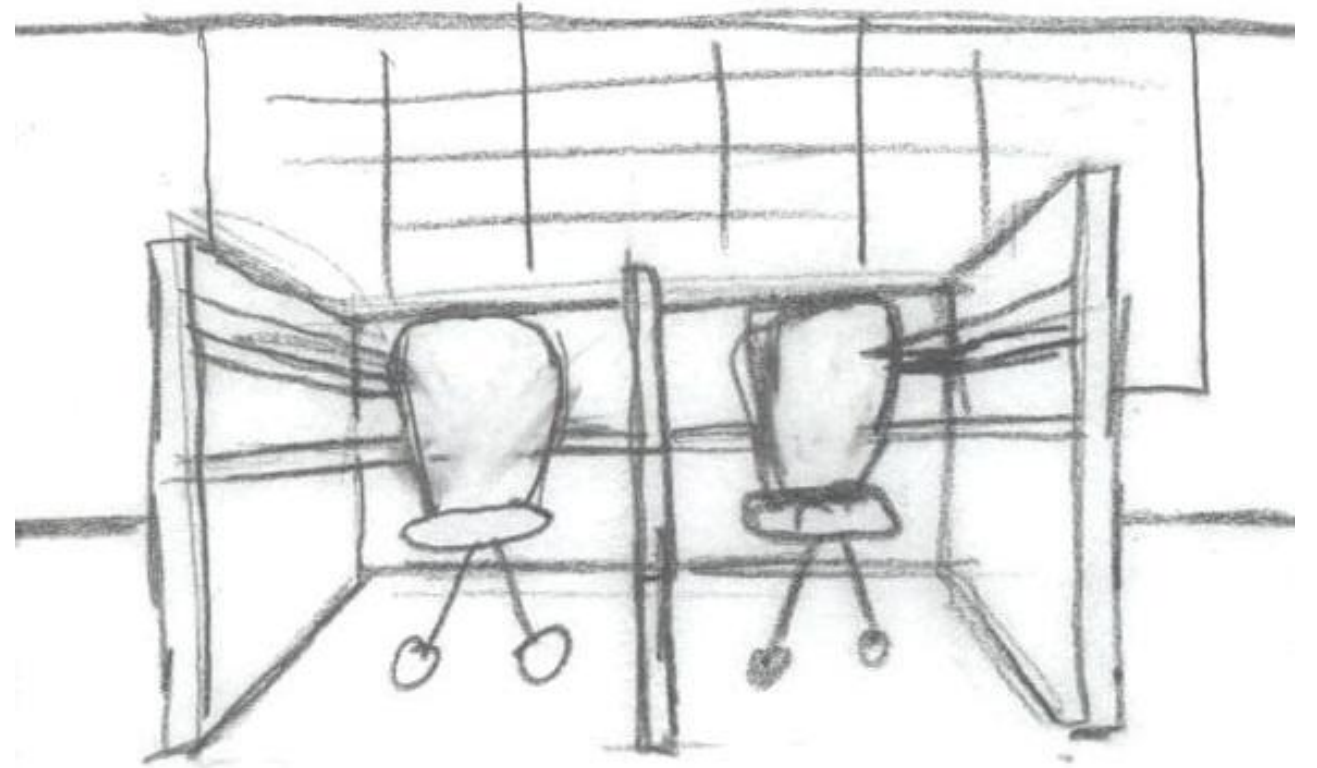
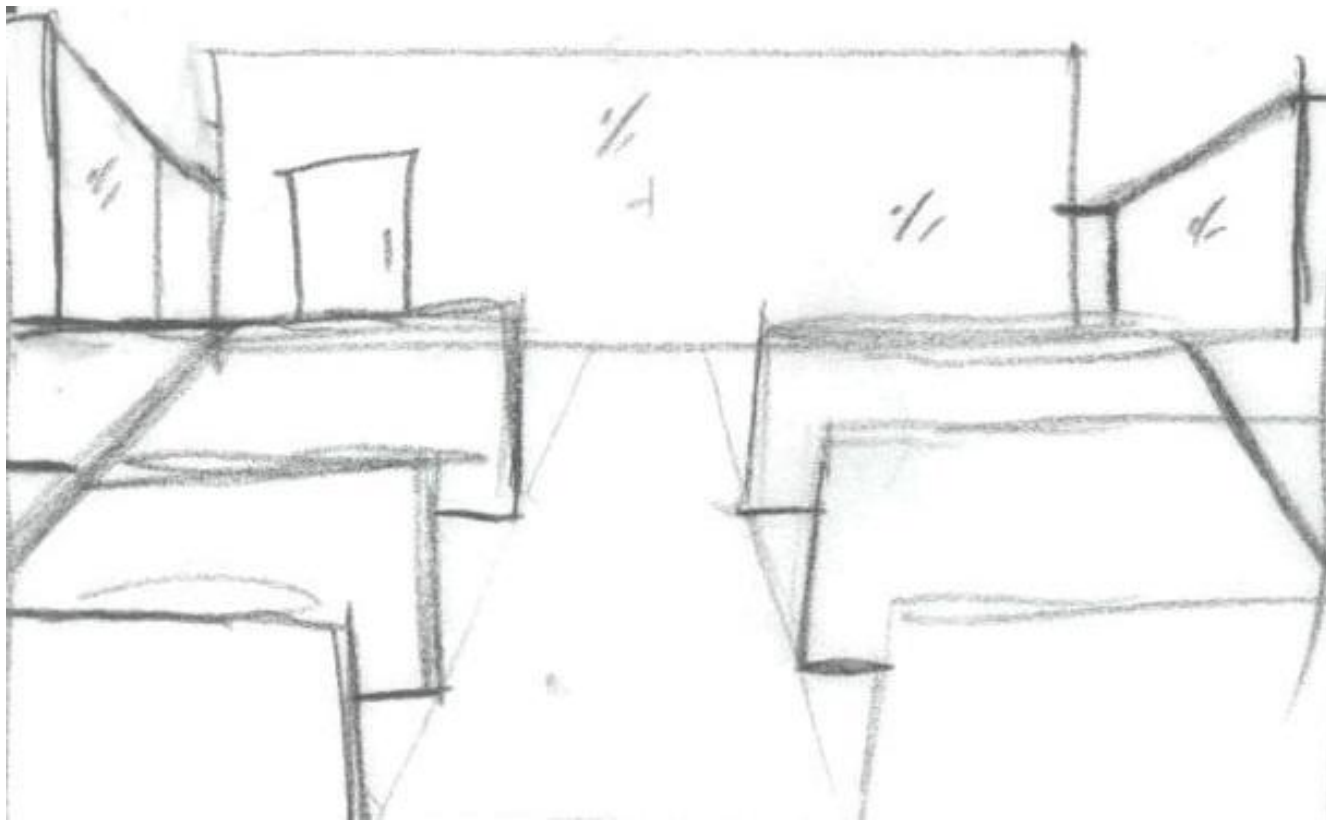
SPACE PLAN SKETCHES



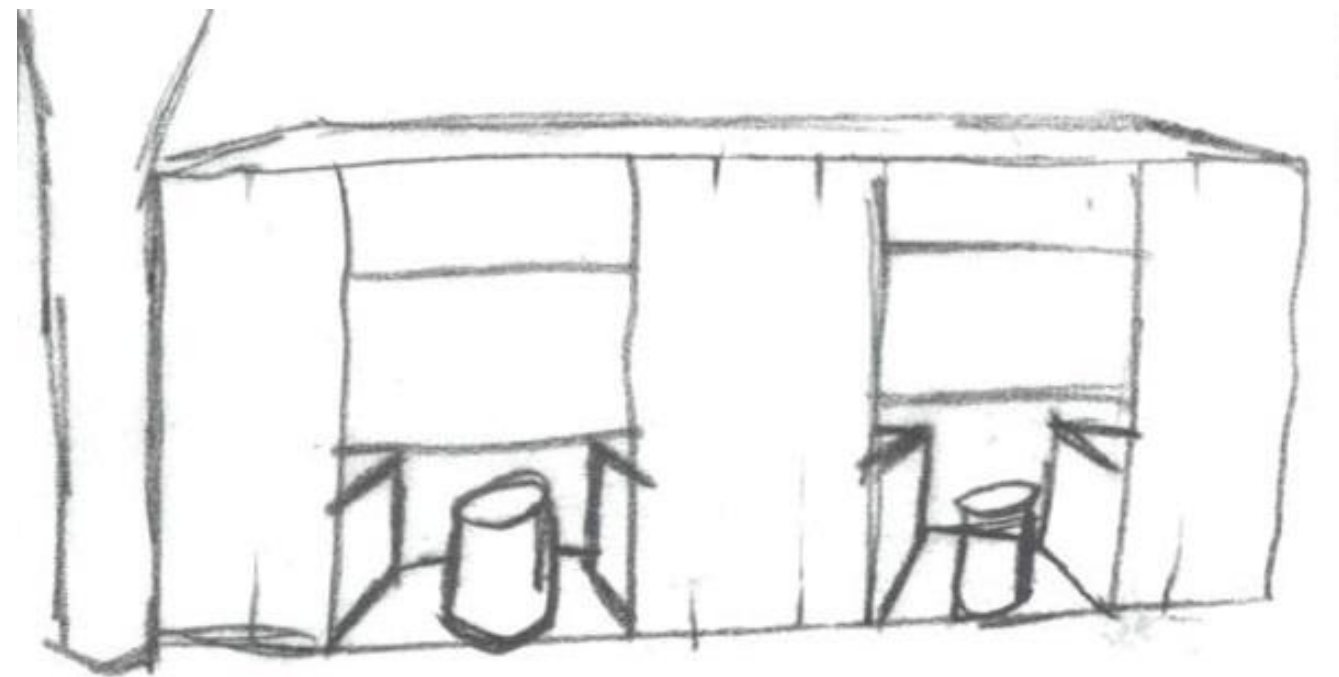
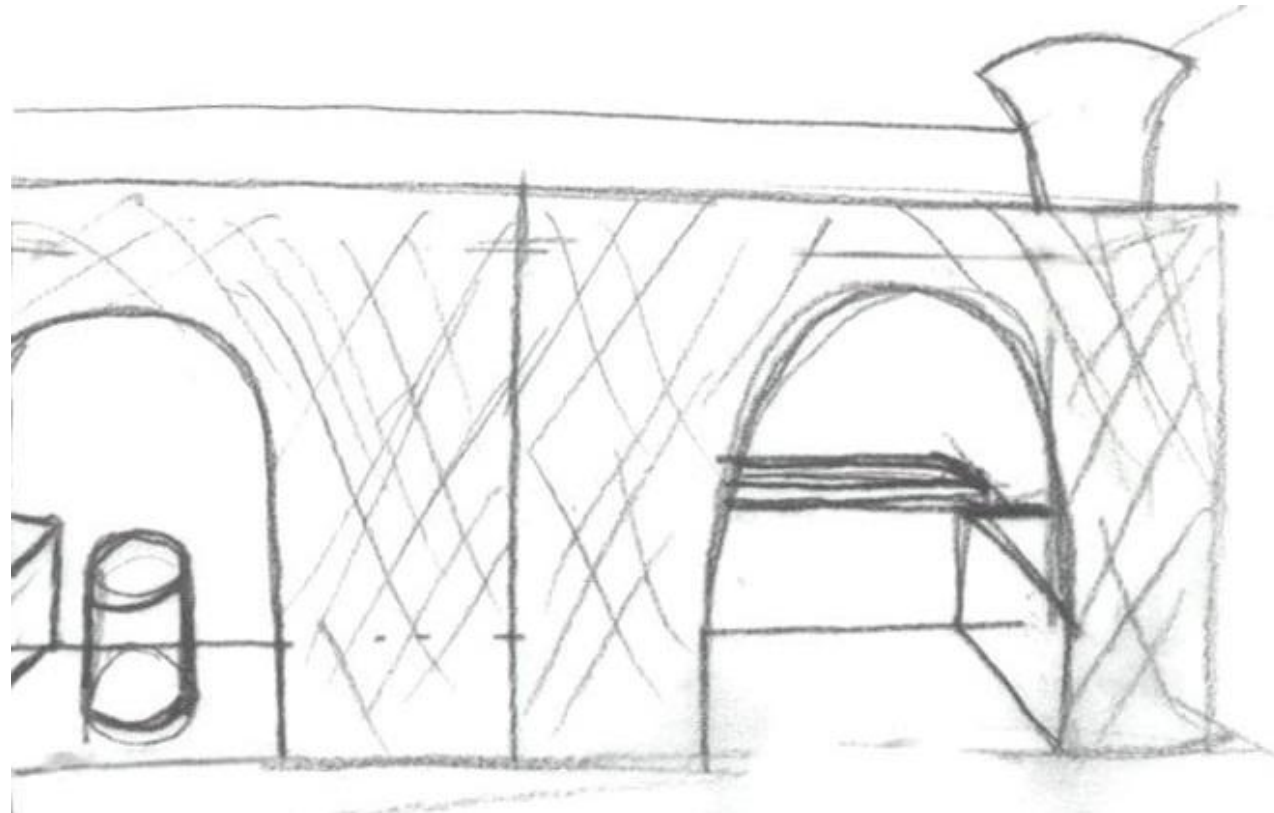
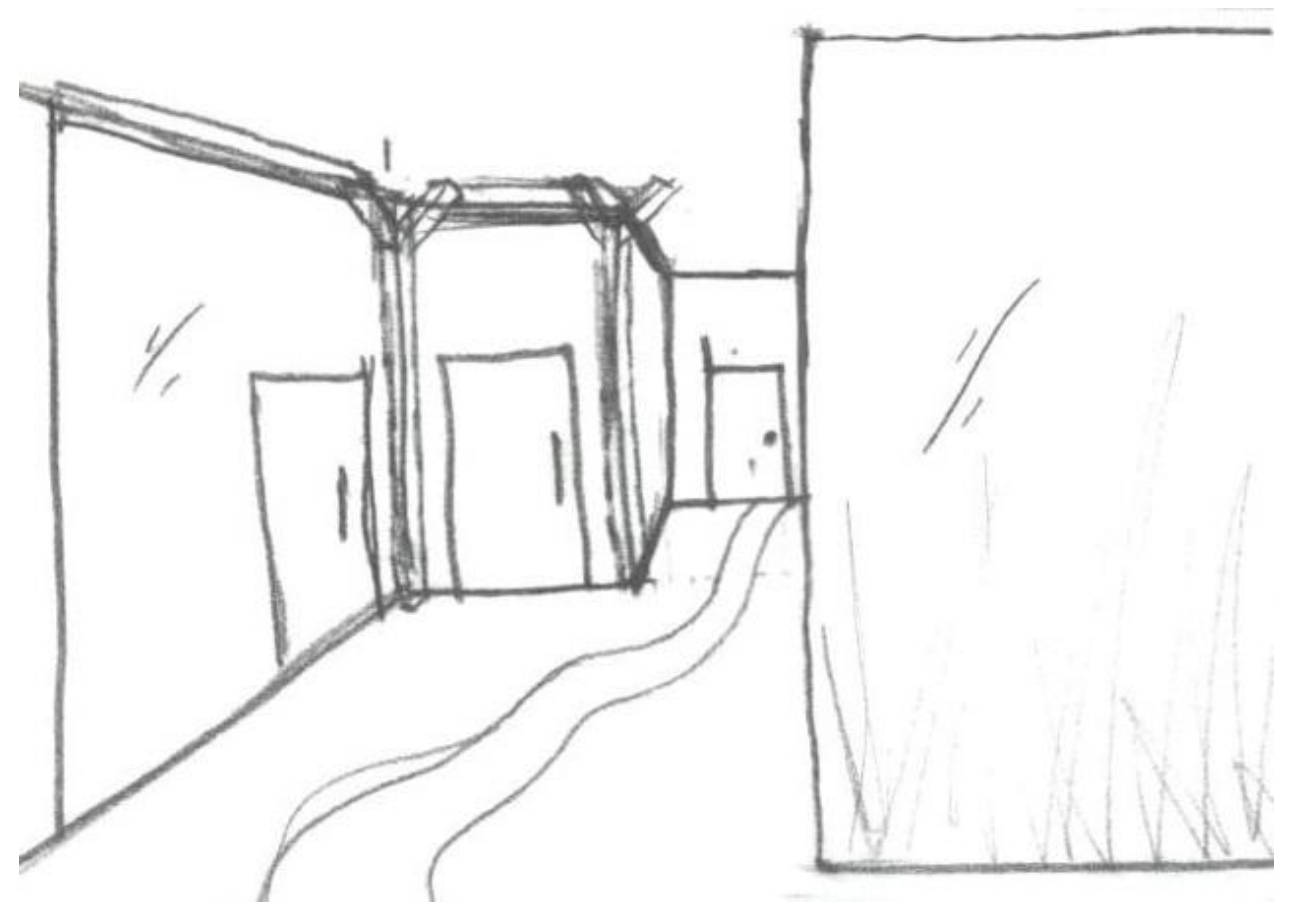
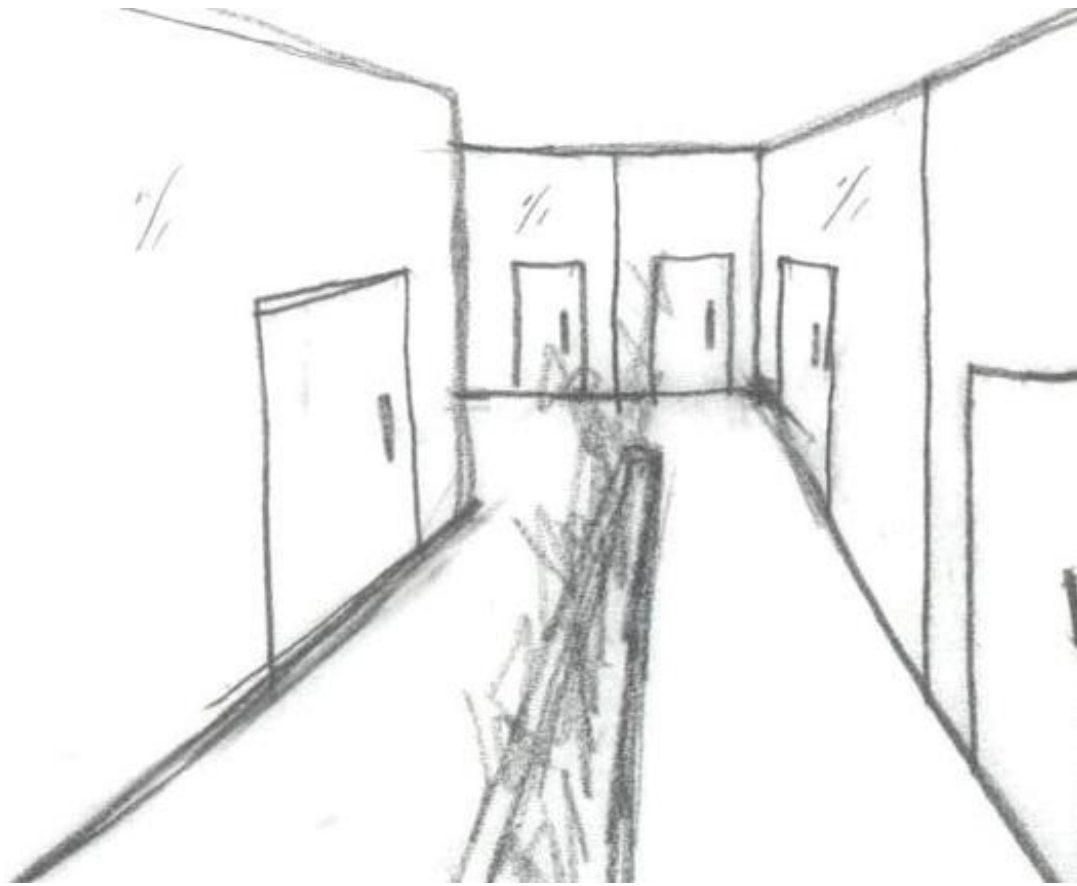
SPACE PLAN SKETCHES



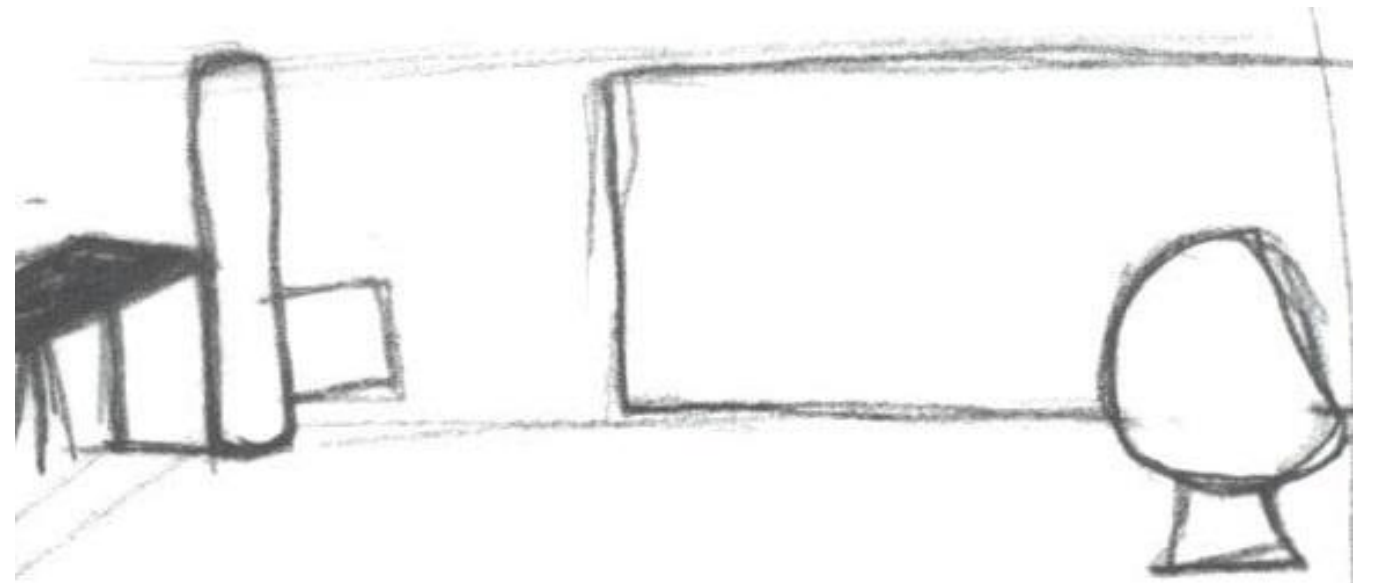
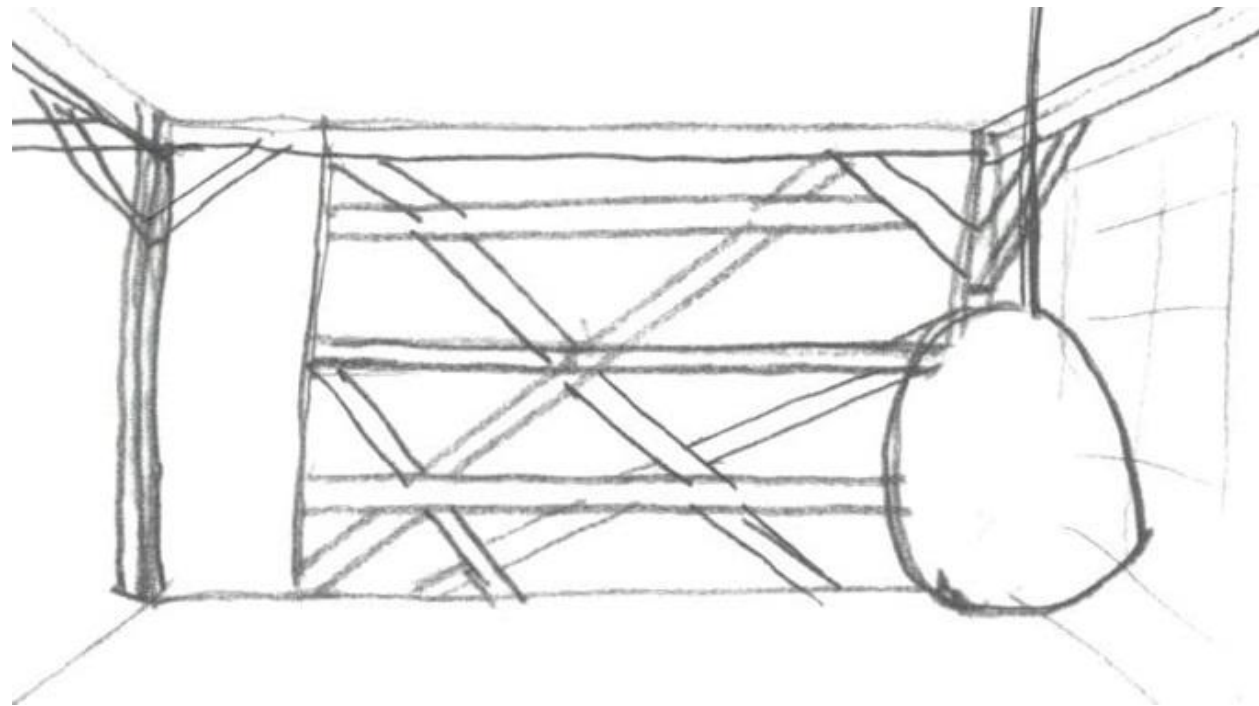
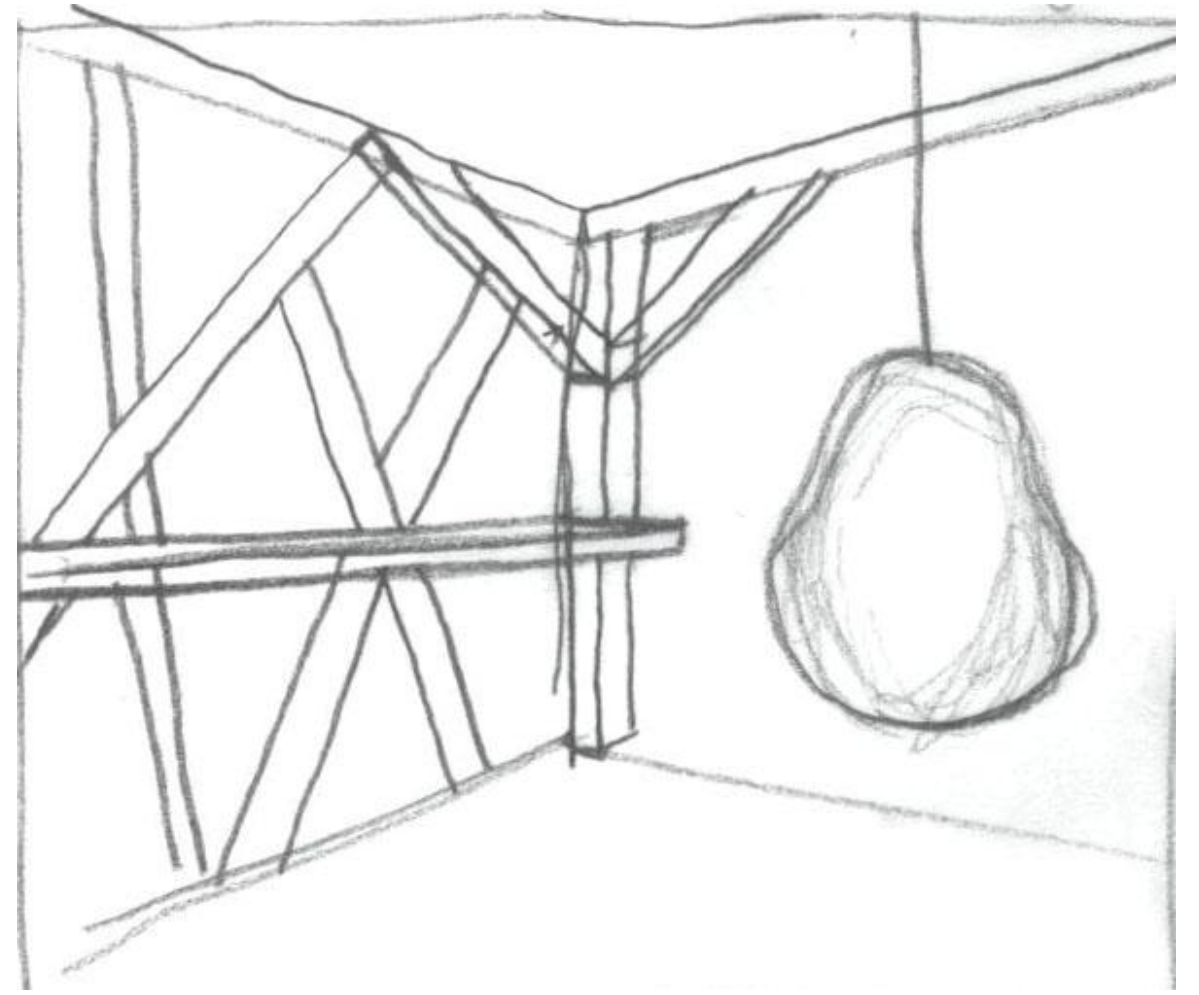
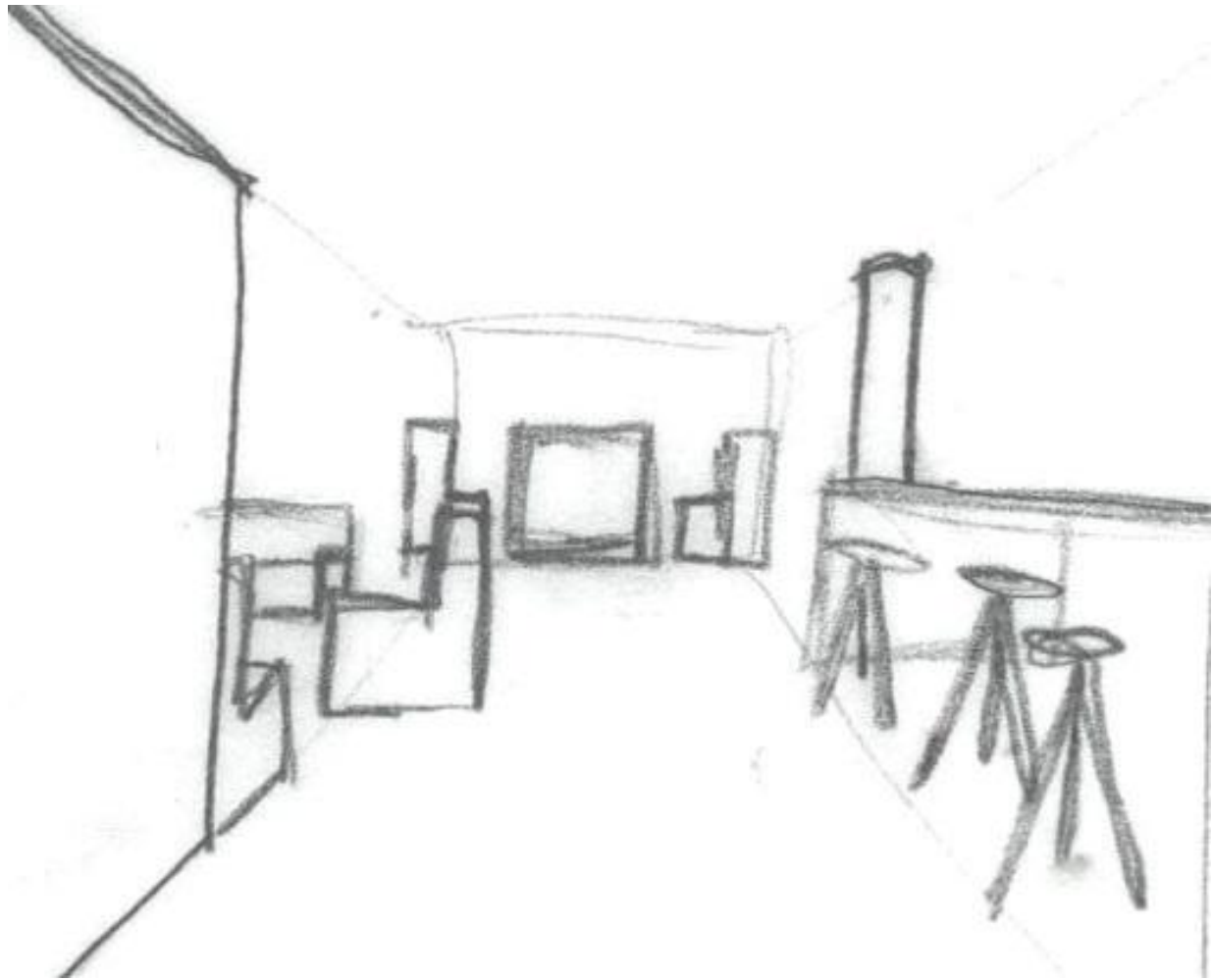
SKETCHES



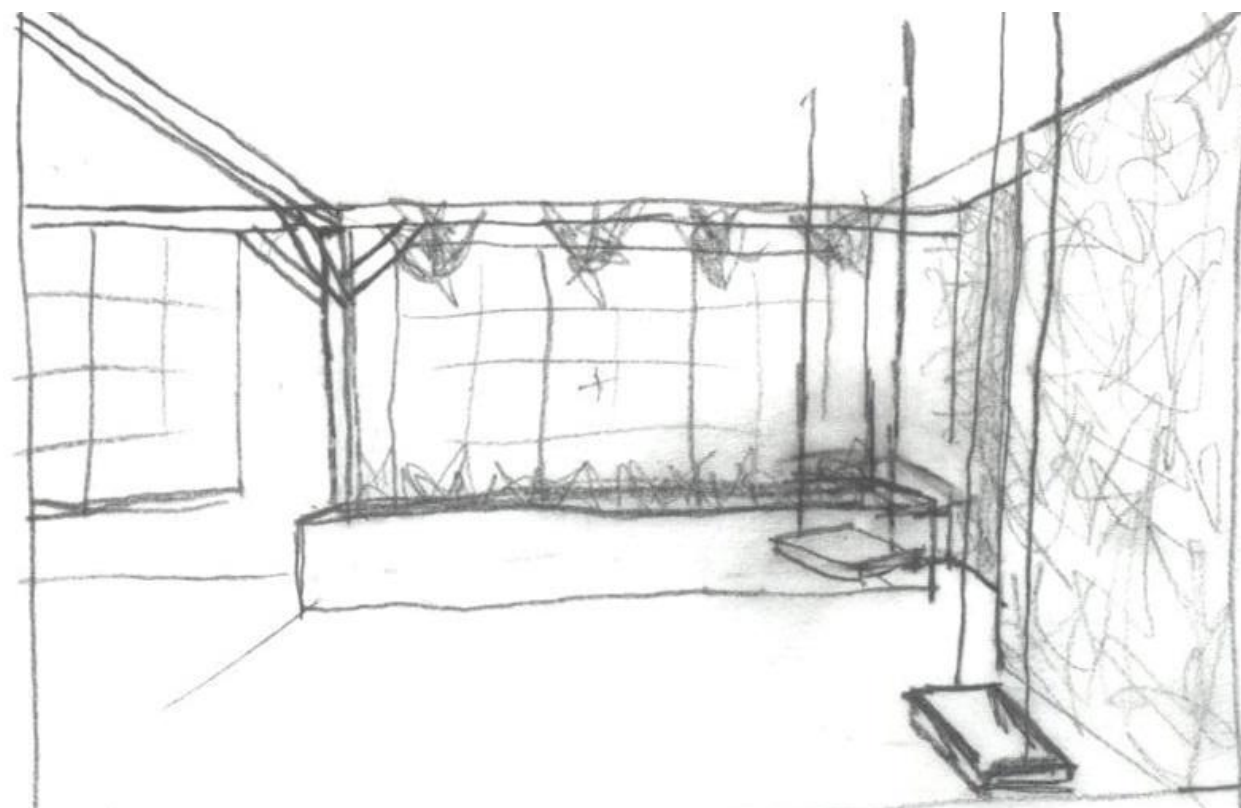
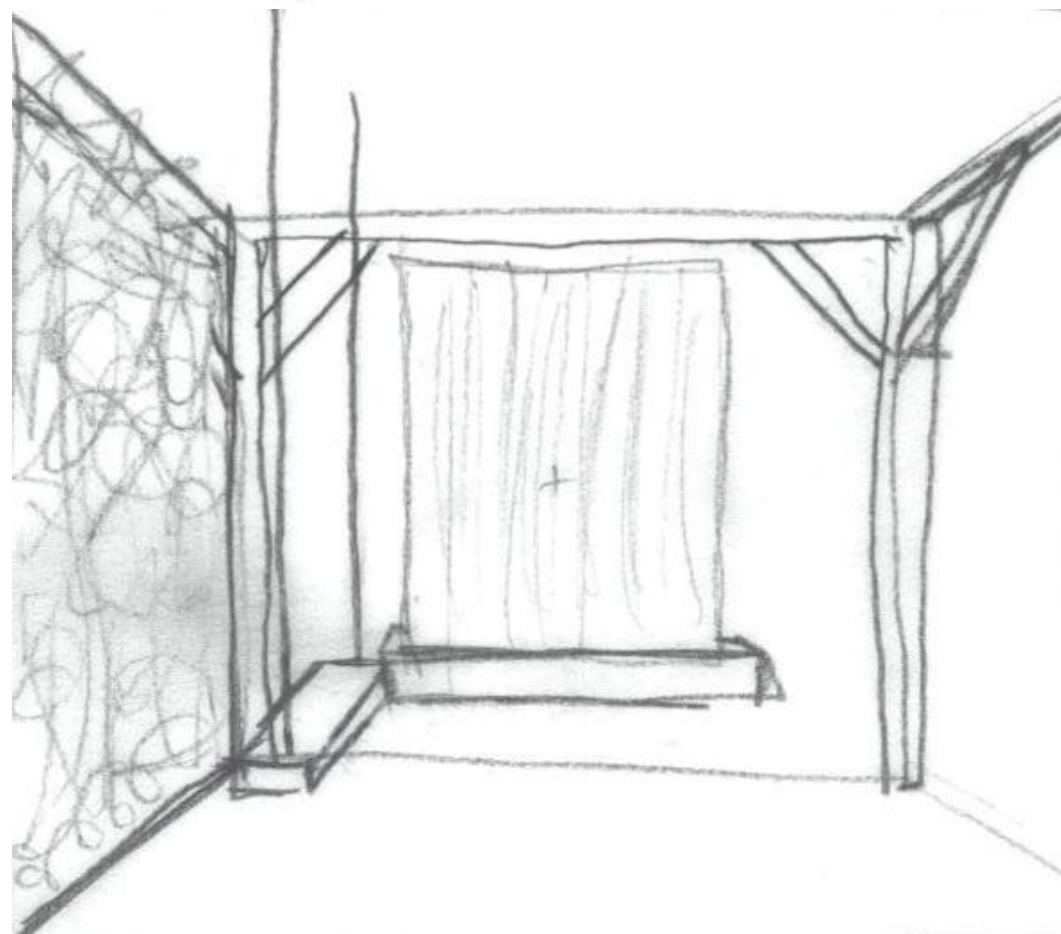
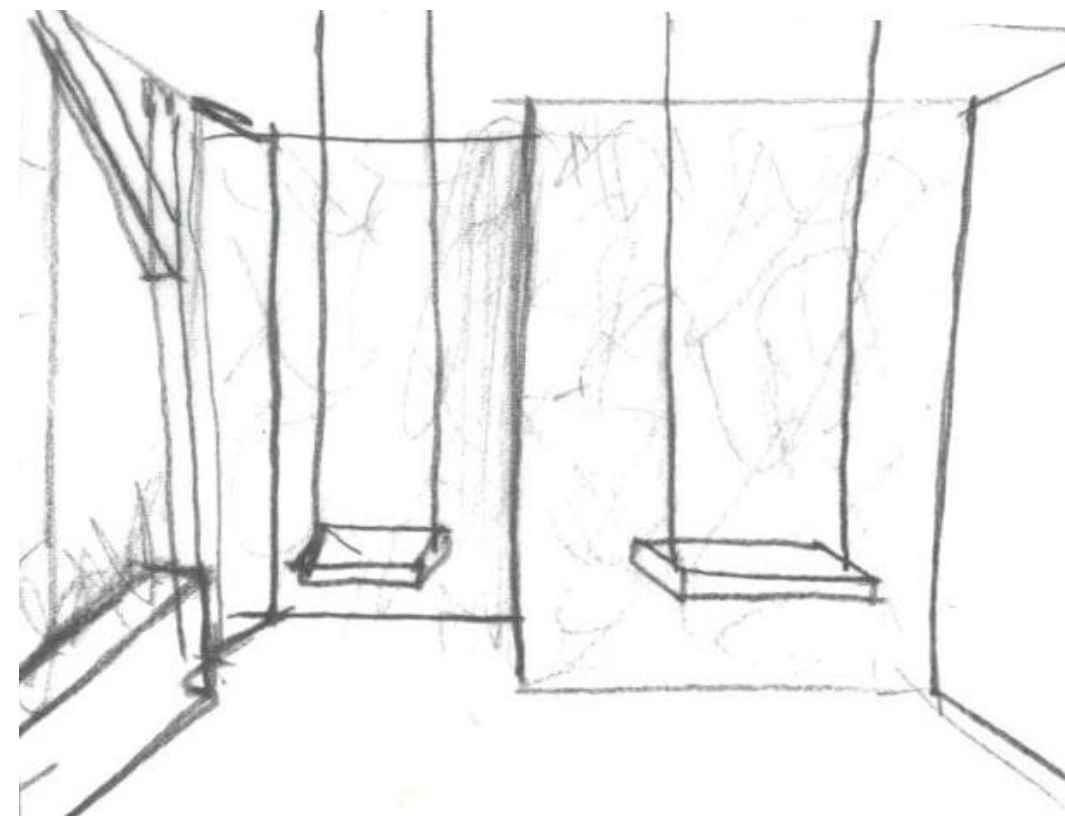
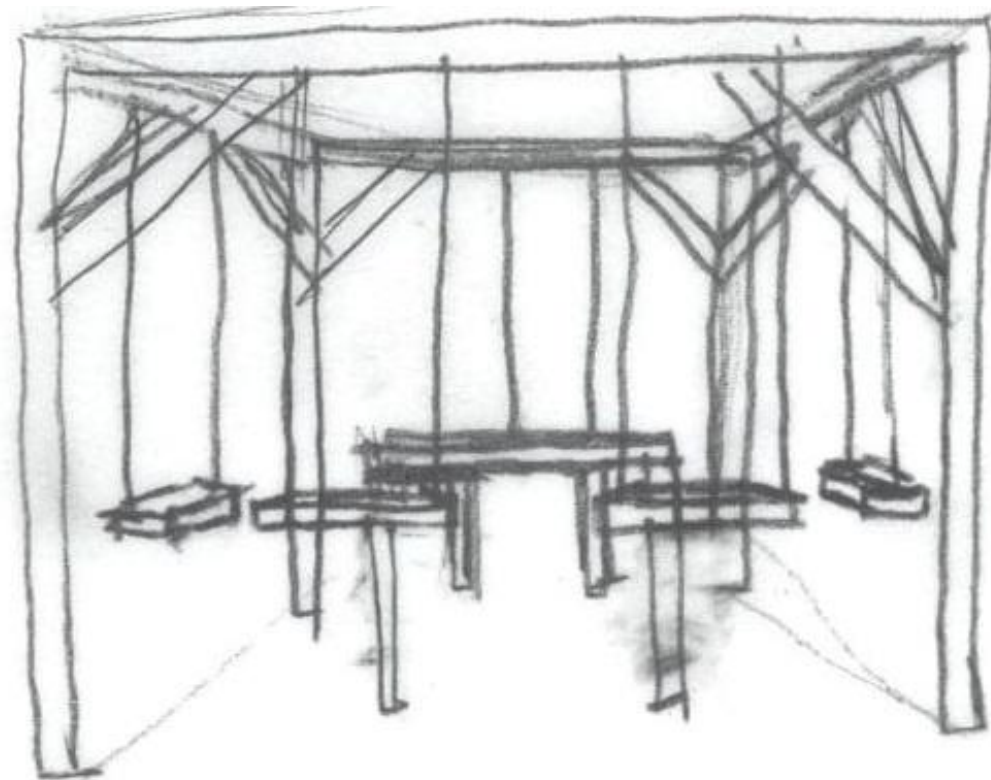
SKETCHES



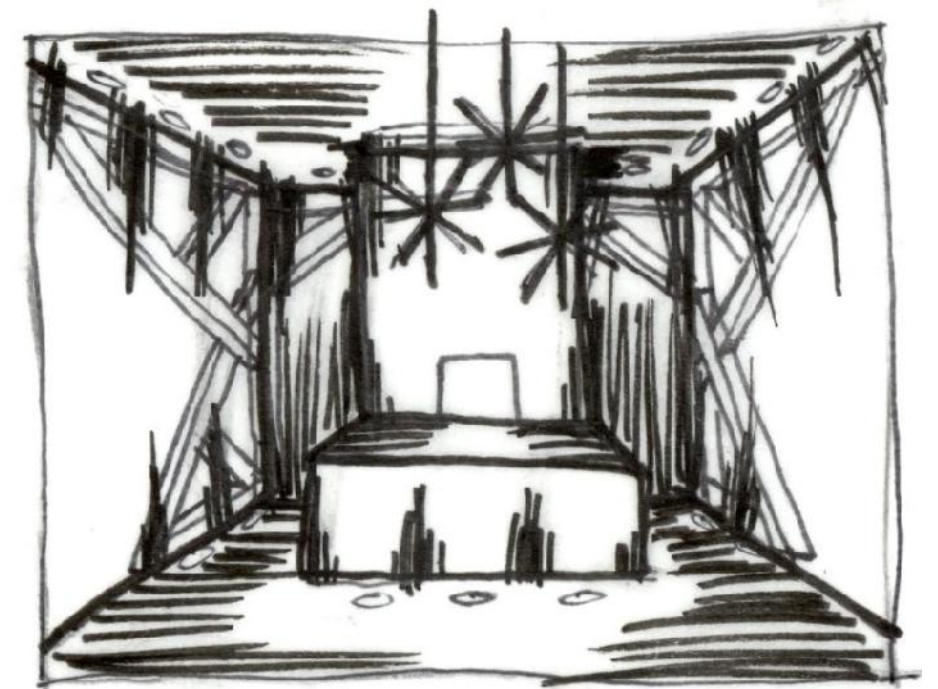
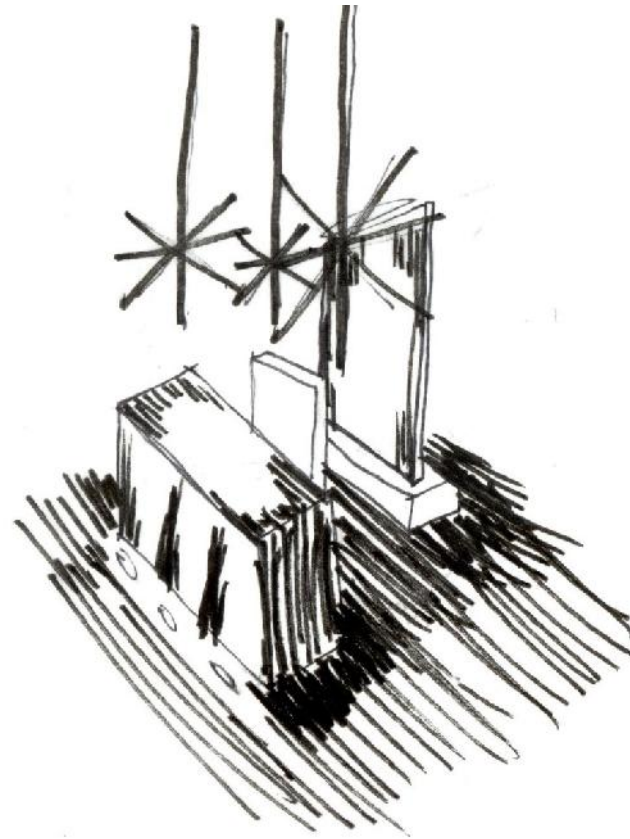
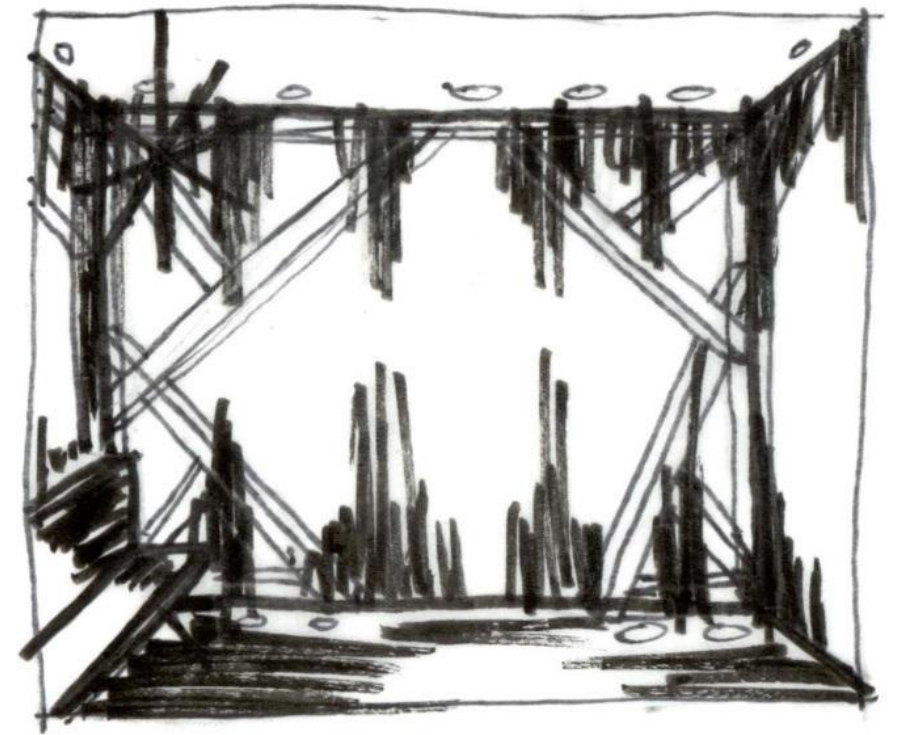
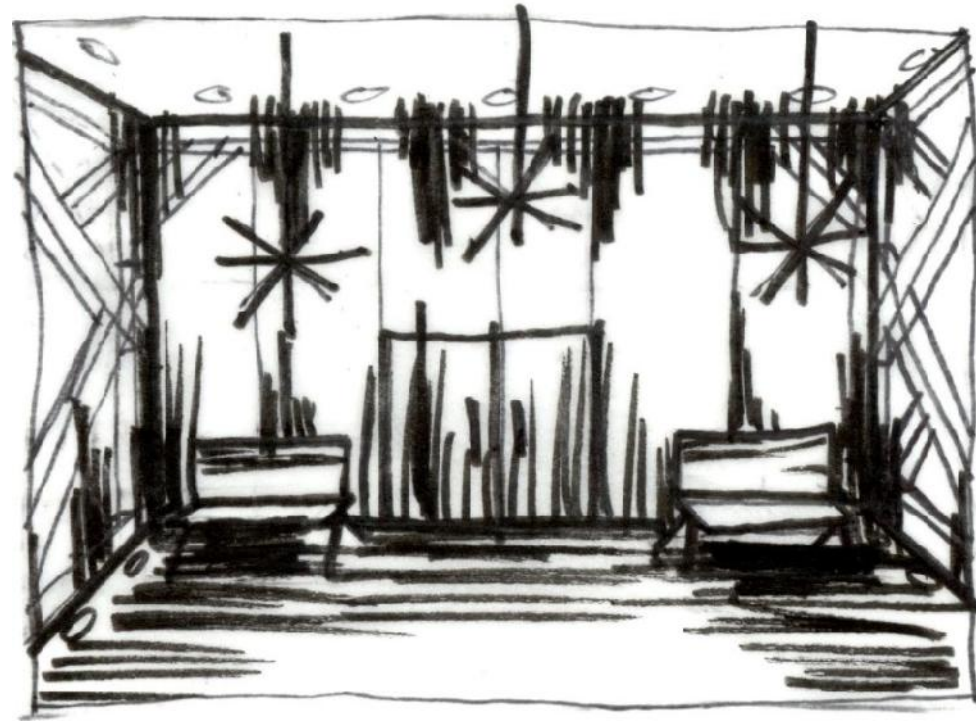
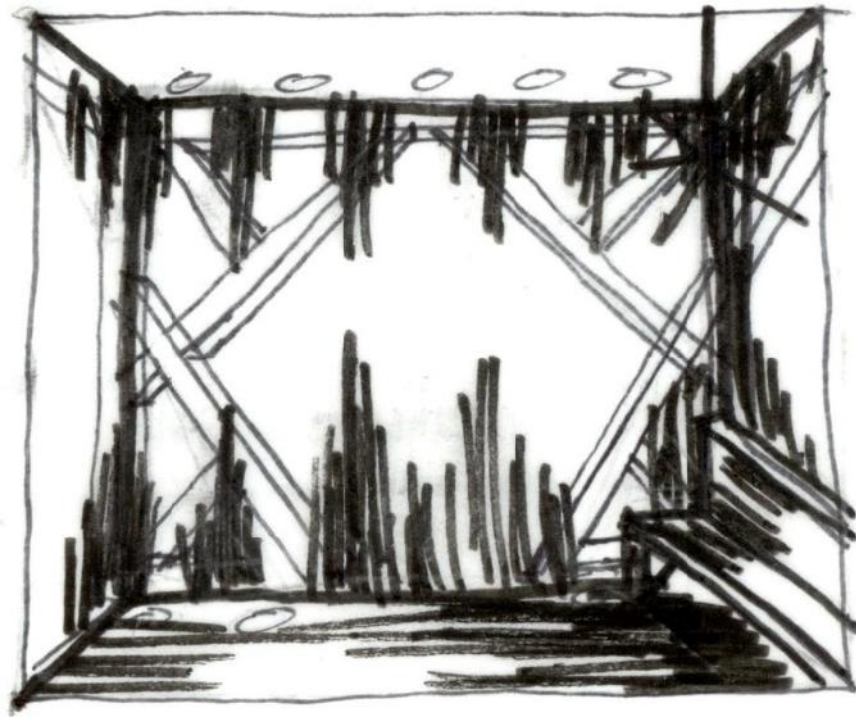
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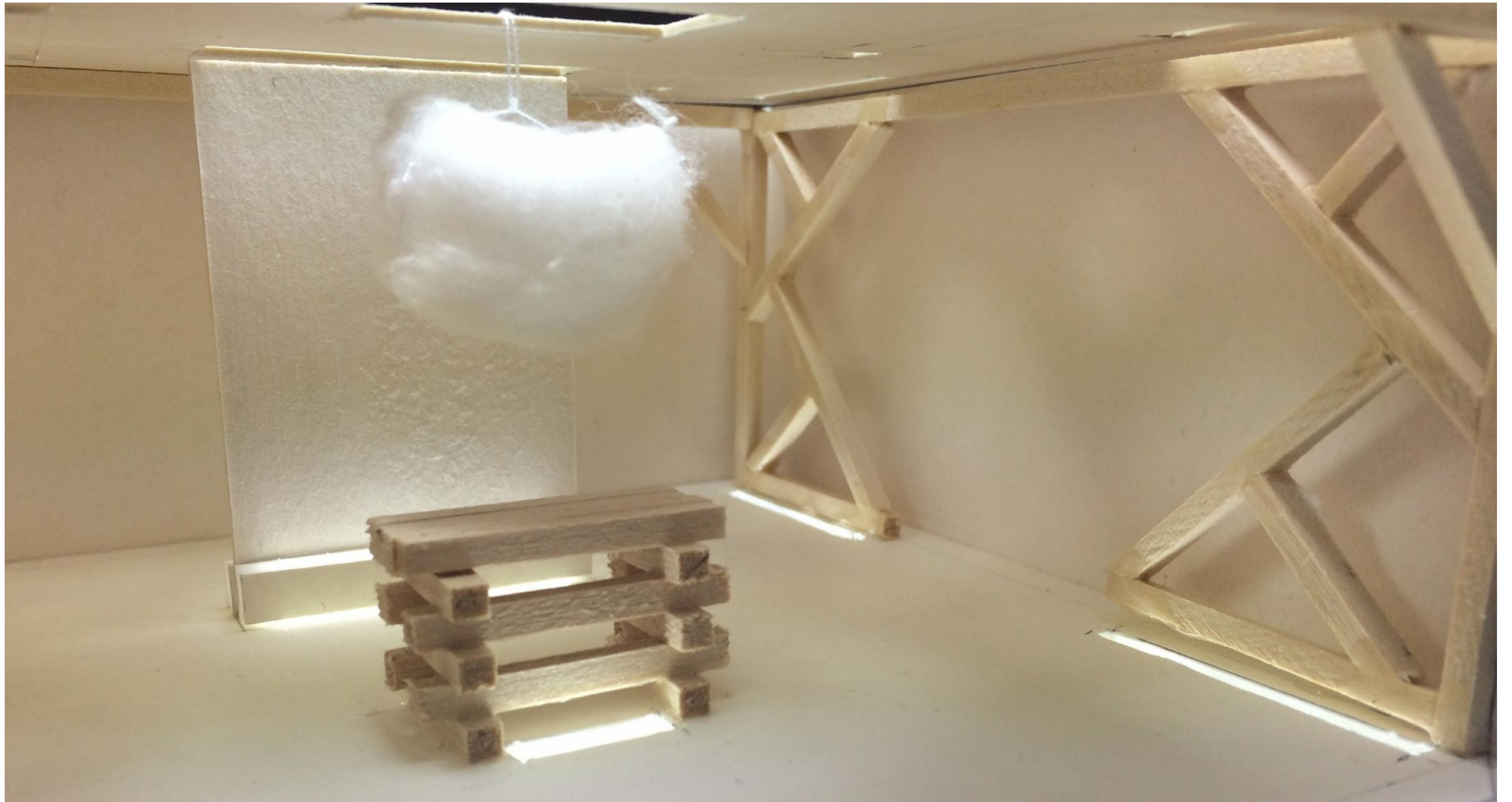
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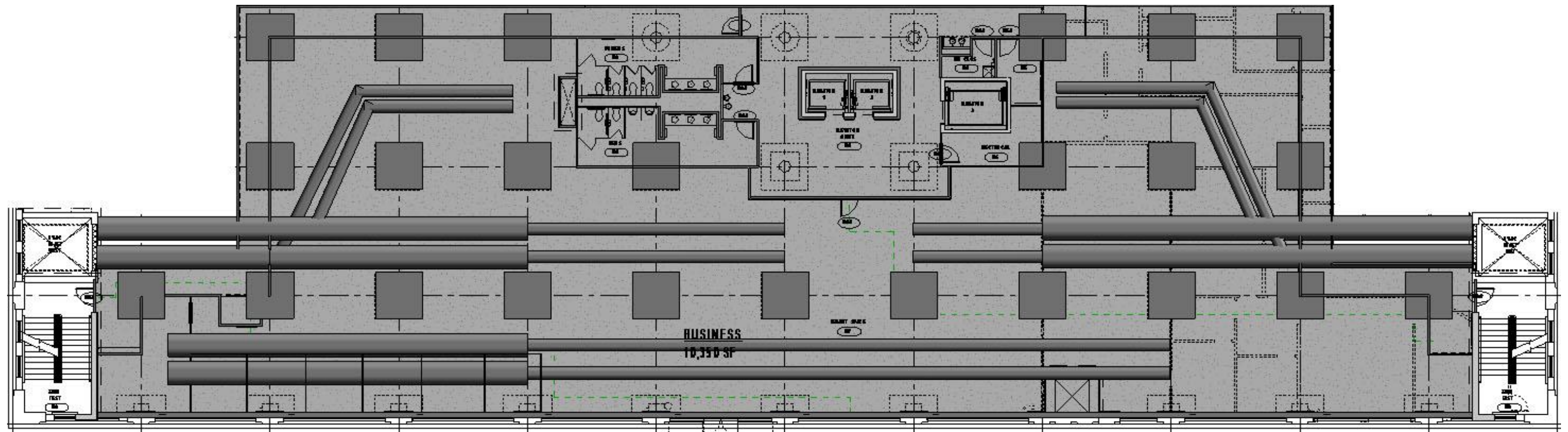
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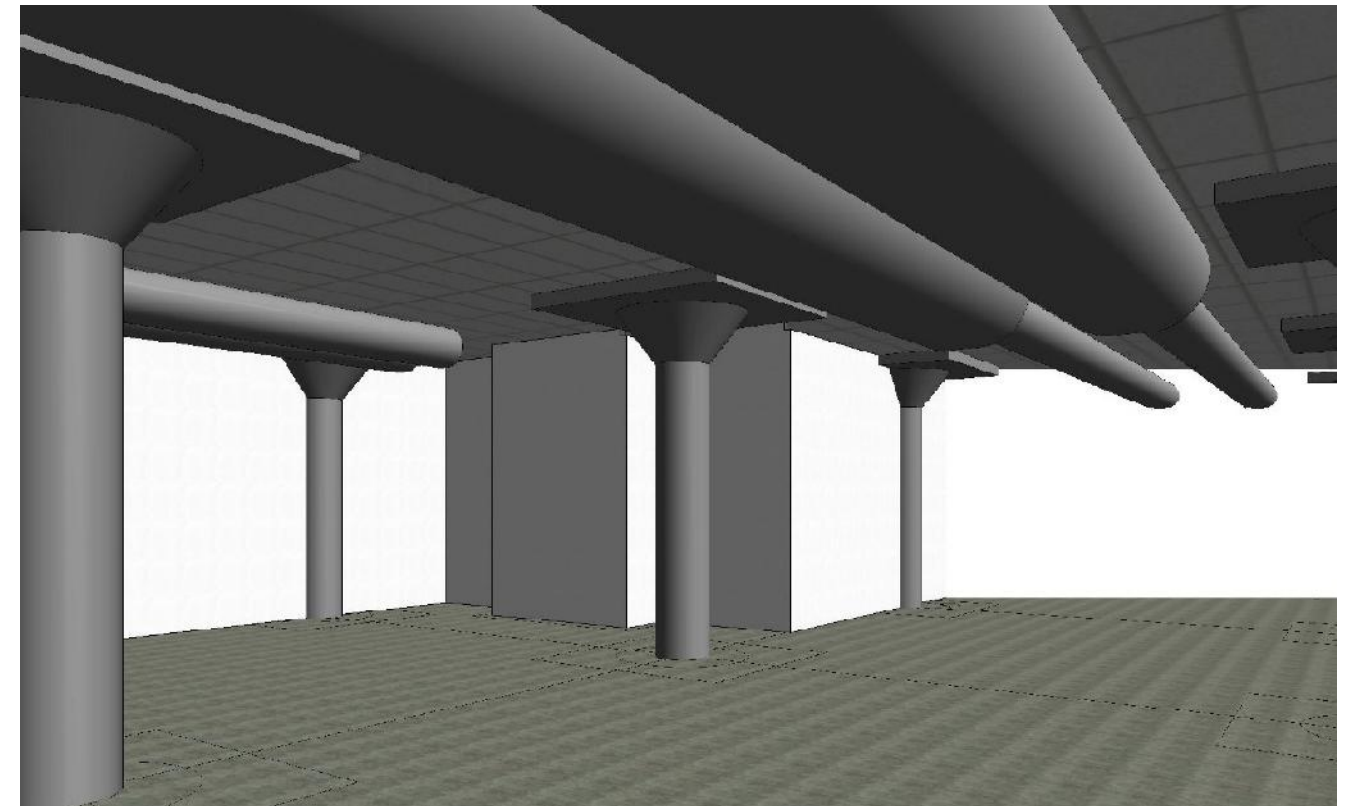
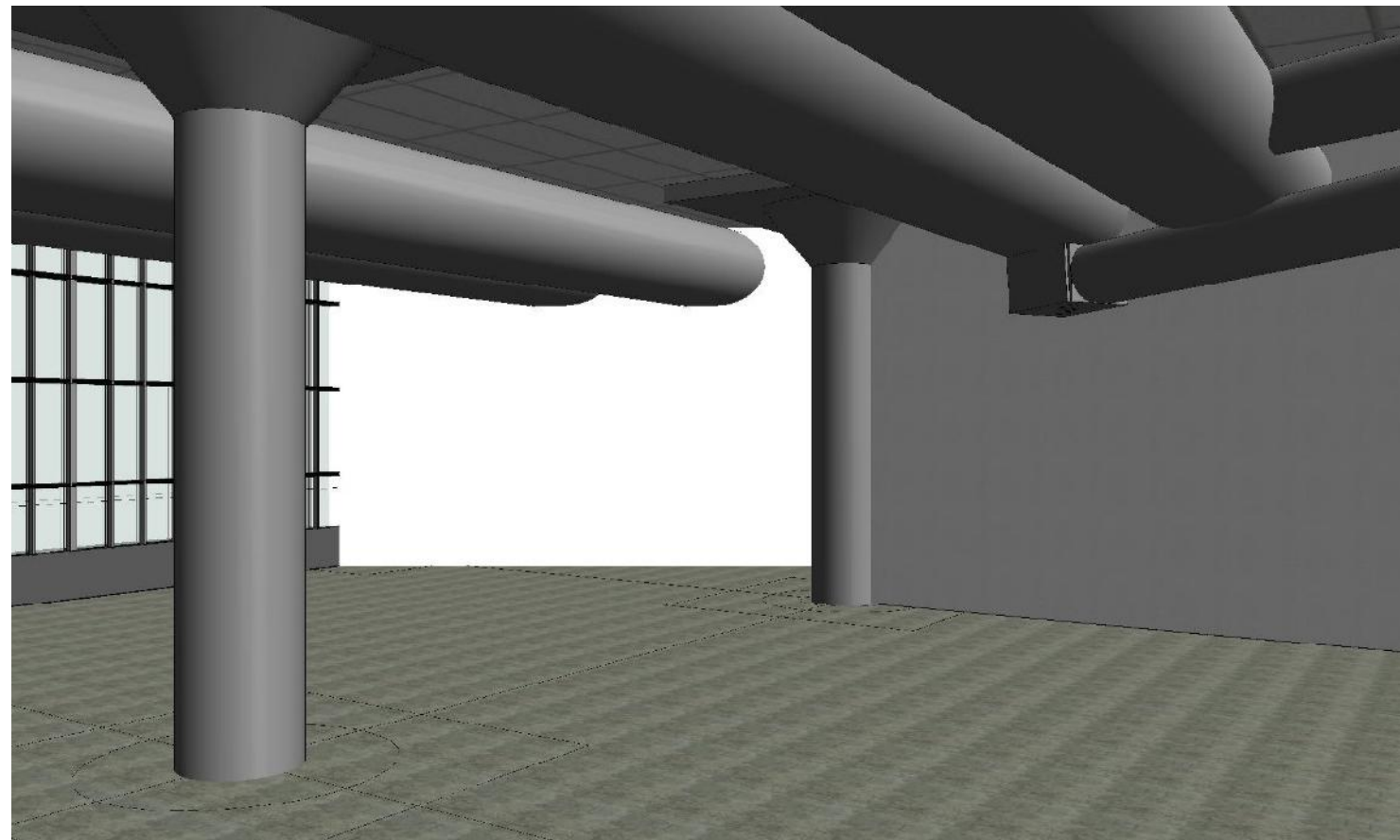
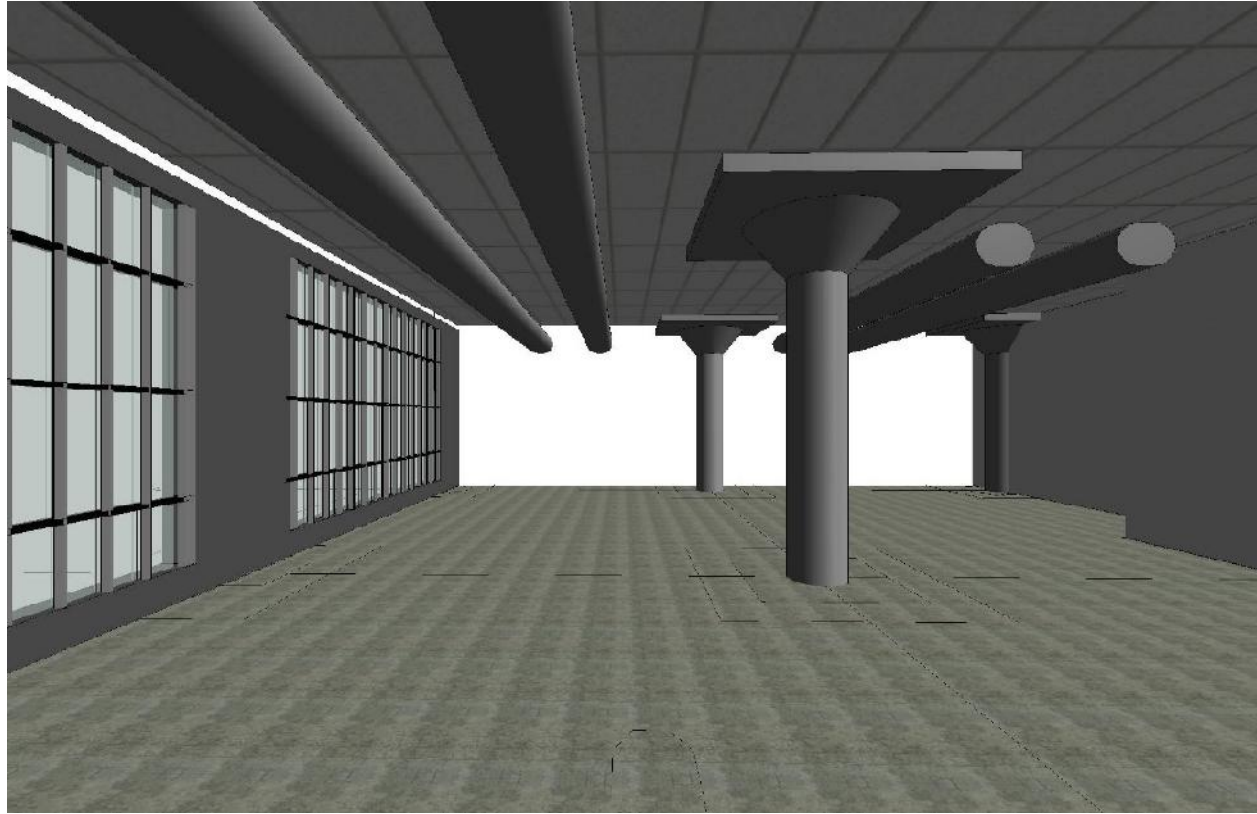
LIGHTING SKETCHES



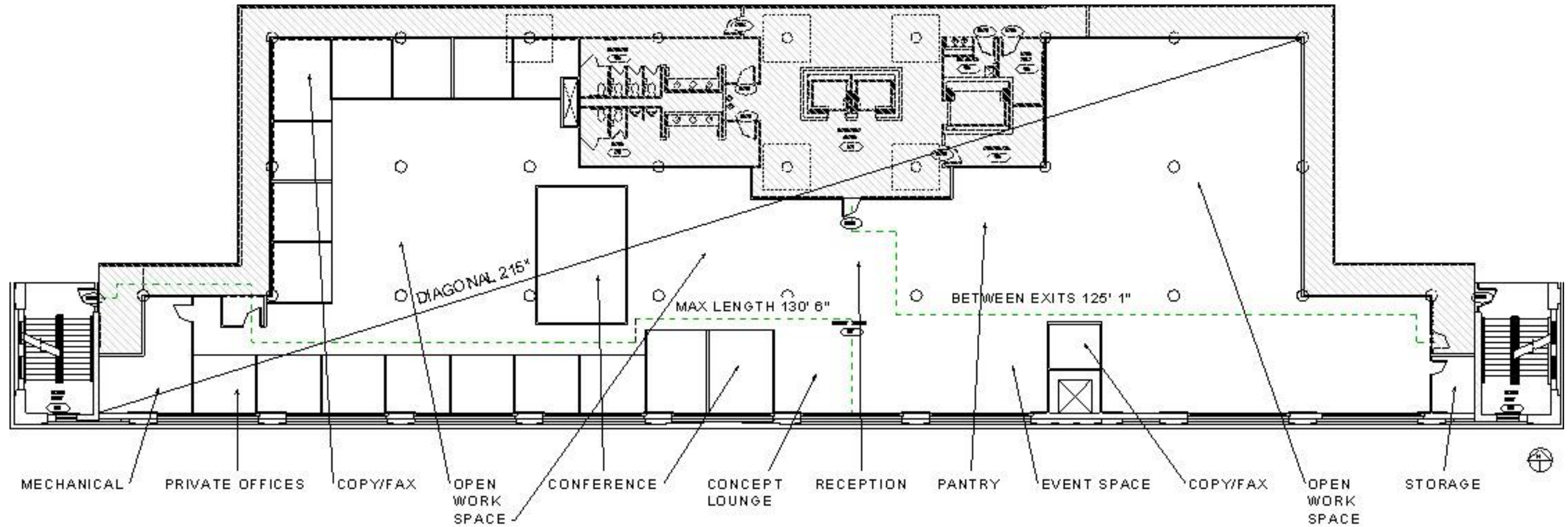
LIGHTING MODEL



SYSTEMS RCP



DUCTWORK



LIFE SAFETY PLAN

Space Designation	# of Exits		Travel Distance		Arrangement: Means of Egress				
	Required	Shown on Plans	Allowable Distance	Actual Distance Shown on Plans	Req'd Distance Between Exits		Actual Distance Shown on Plans		
Suite 3100	2	3	300 lf	130' 6"	107' 6"		125' 1"		
Notes:									
Use Group or Space Designation	(A)	(B)	Calculated Occupant Load = A/B	©		Exit Width (Inches)			
	Area = Sq. Ft.	Area per Occupant		Egress per Occupant		Required Width = (A/B)xC		Actual Width	
			Stair	Level	Stair	Level	Stair	Level	
Suite 3100	10,200	100	102	0.3"	0.2"	30.6"	20.4"	5' 5"	5' 1"
Notes:									

LIFE SAFETY ANALYSIS

$$\frac{(\text{Number of lamps}) \times (\text{Initial lamp lumens}) \times \text{LLF} \times \text{CU}}{\text{Area}} = \text{Maintained fc}$$



$$\frac{5(11) (13+14)}{180}$$

$$\text{RCR} = 8.25$$

$$\text{LLF} = .9$$

$$\frac{2 \times 3550 \times .9 \times .83}{180}$$

$$\text{MAINTAINED FC} = 29$$

LIGHTING ANALYSIS

Photometric Data: Lumination™ 1' x 4' Recessed Troffer ET 14 Series

Medium: ET14XA3-4000K.IES

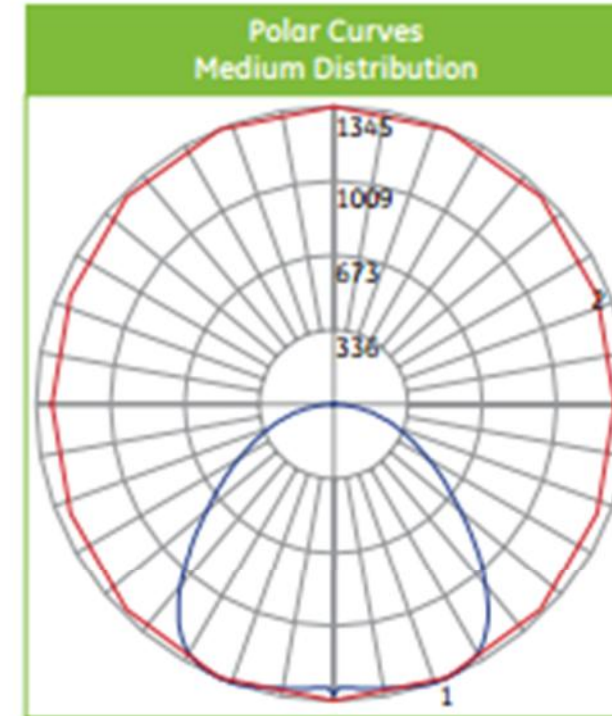
CANDLEPOWER SUMMARY			
Angle	0°	45°	90°
45°	3895	3423	3262
55°	3376	2846	2746
65°	2866	2479	2425
75°	2380	2238	2252
85°	1637	1980	2179

ZONAL LUMEN SUMMARY	
Zone	Lumens
0-10	147.30
10-20	429.72
20-30	662.02
30-40	770.96
40-50	711.60
50-60	566.95
60-70	400.08
70-80	232.49
80-90	72.74
90-100	0.99
100-110	0.42
110-120	0.44
120-130	0.56
130-140	0.80
140-150	0.99
150-160	0.98
160-170	0.73
170-180	0.27

COEFFICIENTS OF UTILIZATION																		
RC	80%				70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

NOTE: Floor Reflectance : 20%

ZONAL LUMEN SUMMARY			
Zone	Lumens	% of Lamp	% of Fixture
0-20°	577.02	NA	14.40%
0-30°	1239.03	NA	31.00%
0-40°	2009.99	NA	50.20%
0-60°	3288.54	NA	82.20%
0-80°	3921.11	NA	98.00%
0-90°	3993.85	NA	99.80%



PHOTOMETRIC DATA