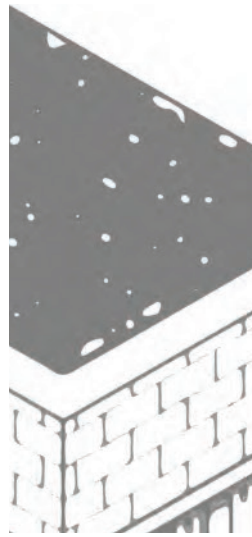
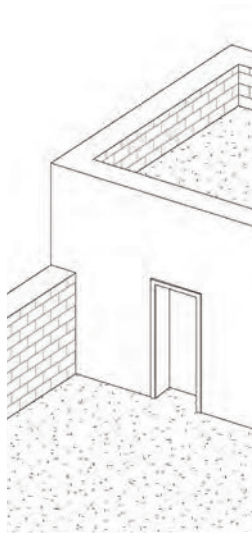
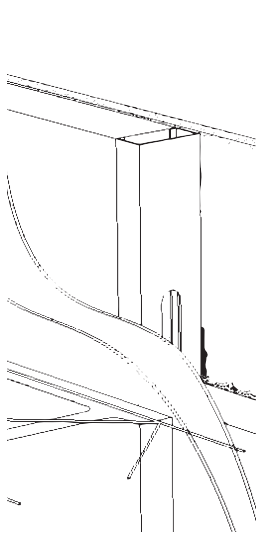


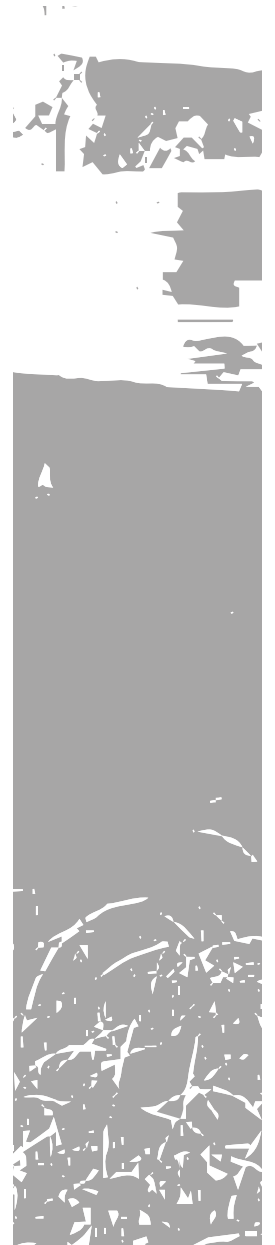
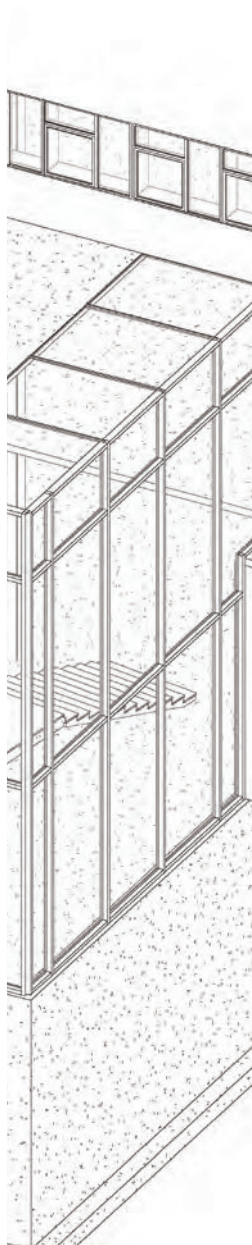
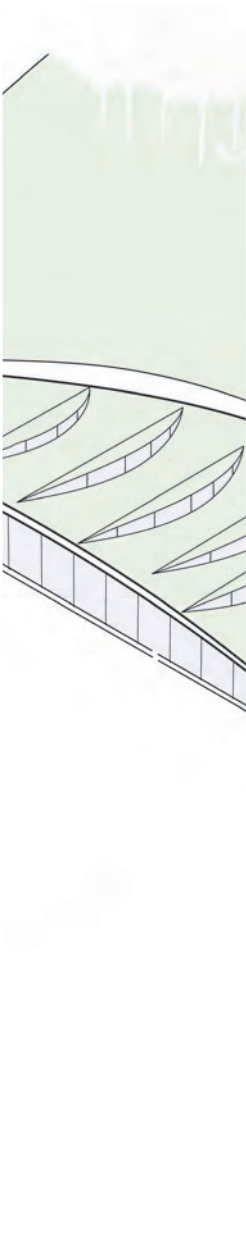
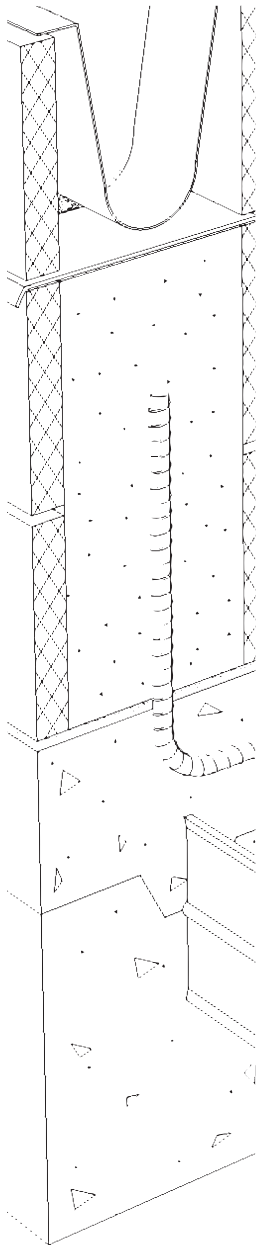


# ACADEMIC PORTFOLIO

VICTOR CENTENO



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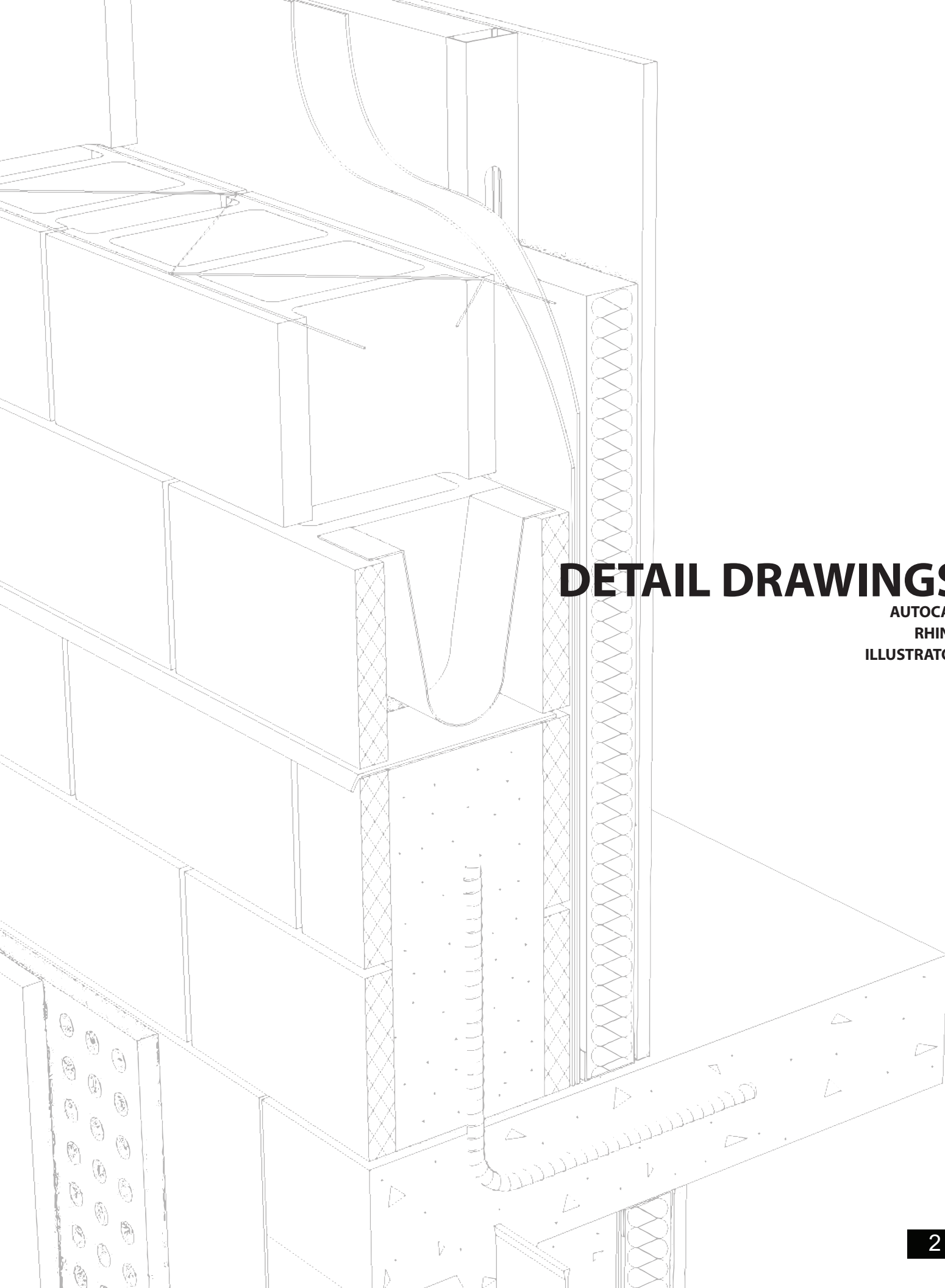




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RHINO ILLUSTRATOR	
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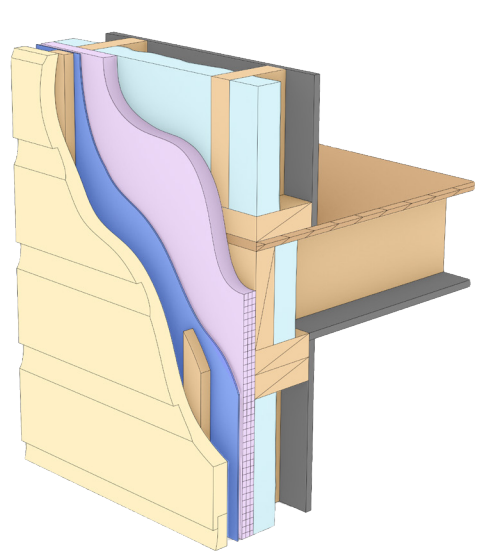
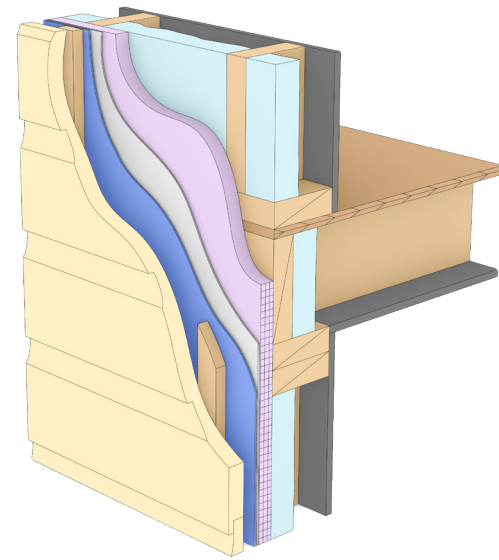
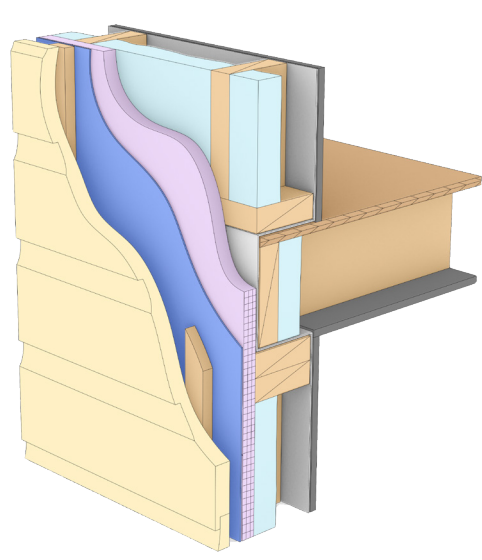
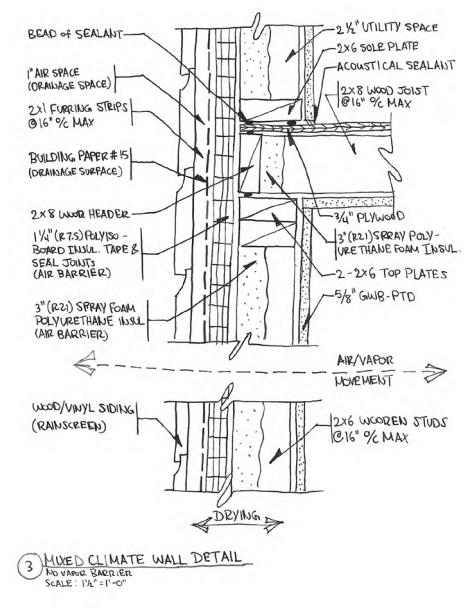
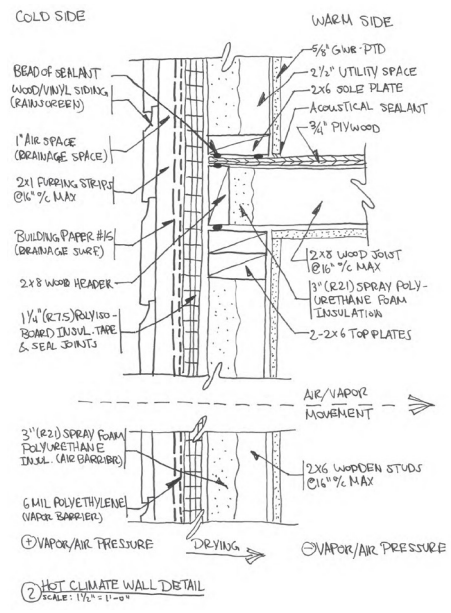
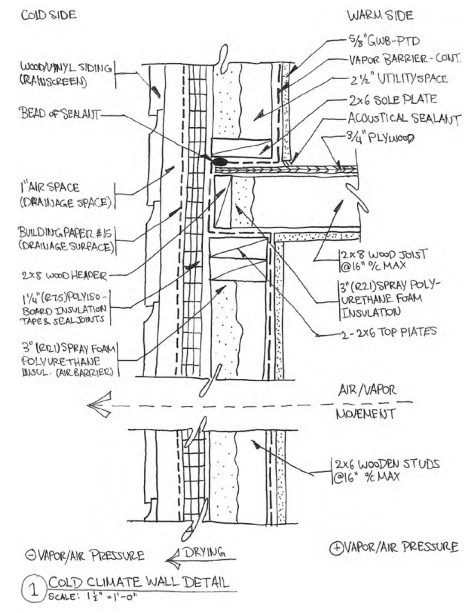
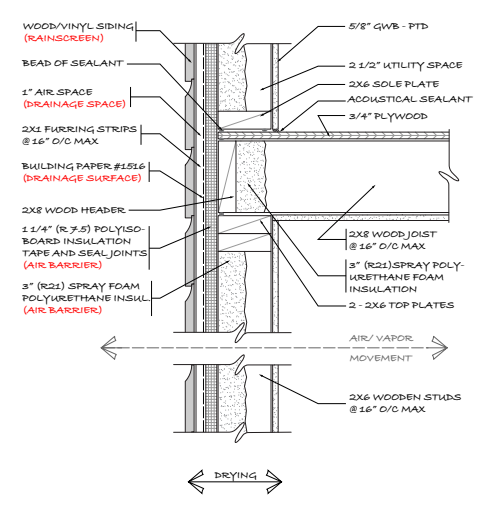
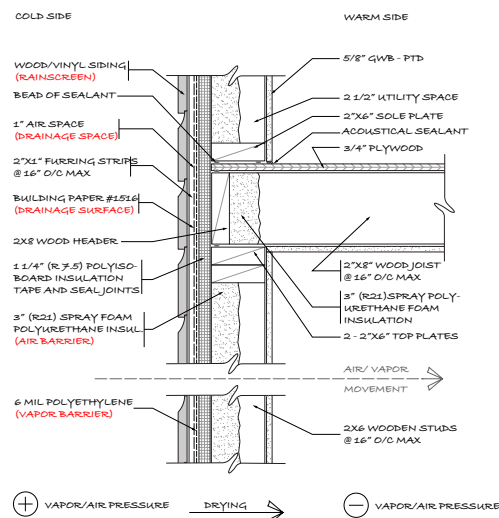
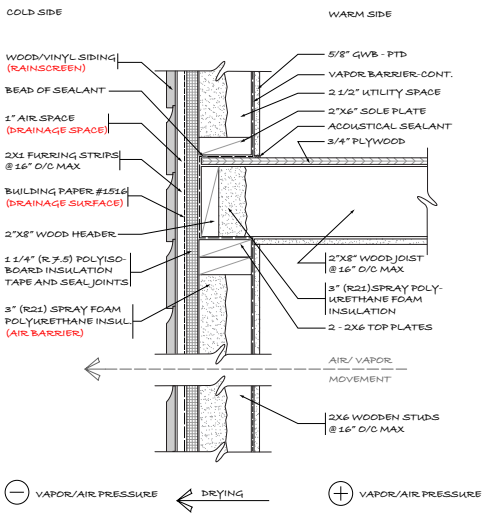
ARCH3630 - ADVANCED DETAILING STUDIO  
PROFESSOR EDWARDS & PROFESSOR COOMBS  
SPRING 2021

PROFESSOR EDWARDS PROVIDED EXAMPLES OF  
DIFFERENT WALL TYPES AND FOUNDATION DETAILS,  
WHICH WE RECREATED THROUGH AUTOCAD & BY  
HAND SKETCH.

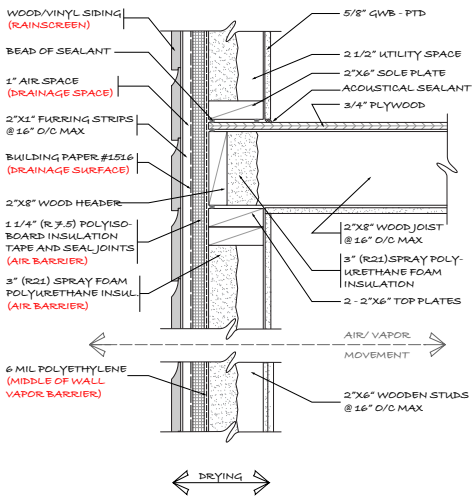


# DETAIL DRAWINGS

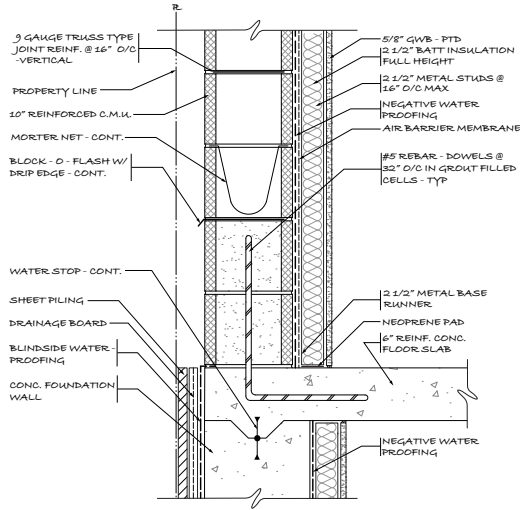
AUTOCAD  
RHINO  
ILLUSTRATOR



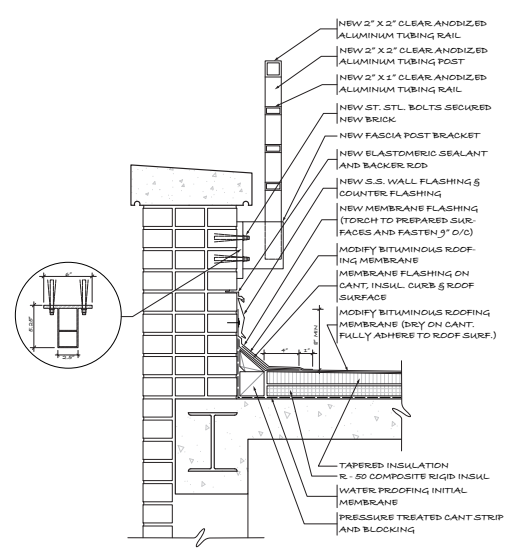




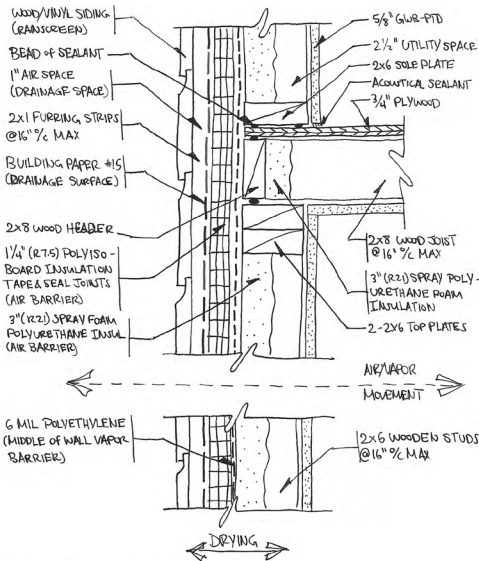
**4 MIXED CLIMATE WALL DETAIL**  
MIDDLE OF WALL VAPOR BARRIER  
SCALE: 1 1/2" = 1'-0"  
\* WOOD SIDING ACT AS RAINSCREEN  
BUILDING PAPER ACT AS DRAINAGE SURFACE



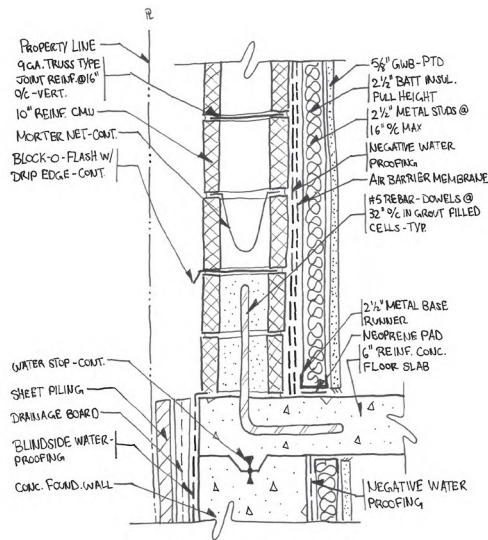
**13 PROPERTY LINE EXTERIOR DETAIL**  
SCALE: 1 1/2" = 1'-0"



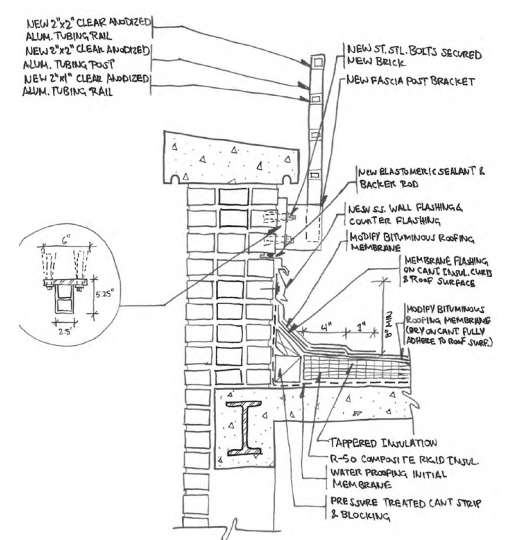
**26 ROOF/EXISTING WALL W/ RAILING DETAIL**  
SCALE: 1 1/2" = 1'-0"



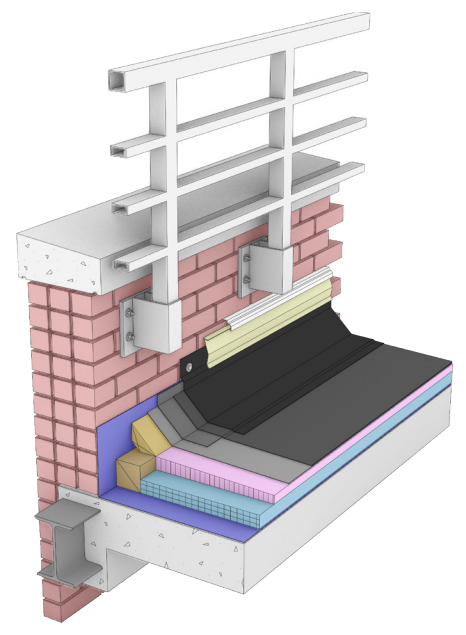
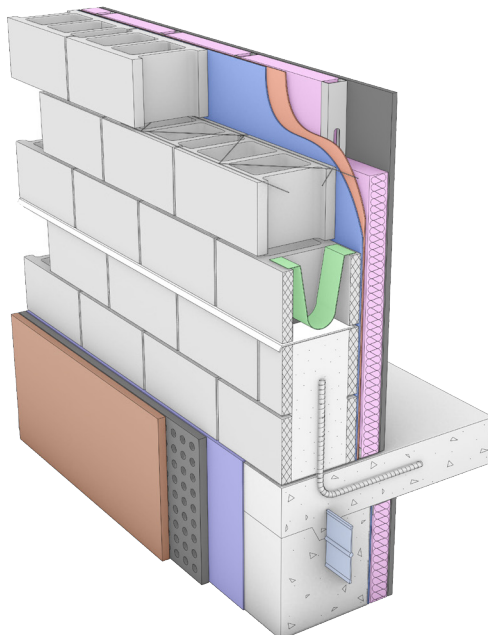
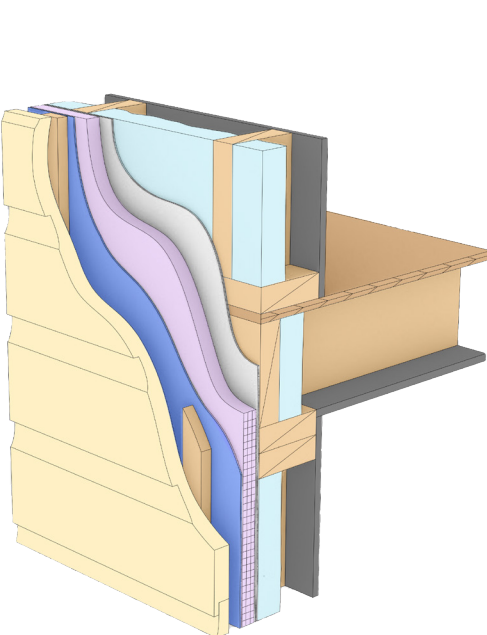
**4 MIXED CLIMATE WALL DETAIL**  
MIDDLE OF WALL VAPOR BARRIER  
SCALE: 1 1/2" = 1'-0"



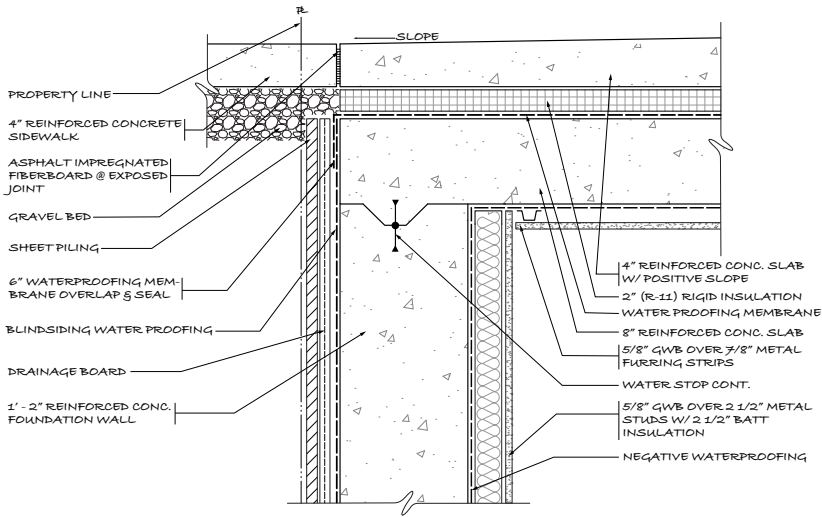
**13 PROPERTY LINE EXTERIOR DETAIL**  
SCALE: 1 1/2" = 1'-0"



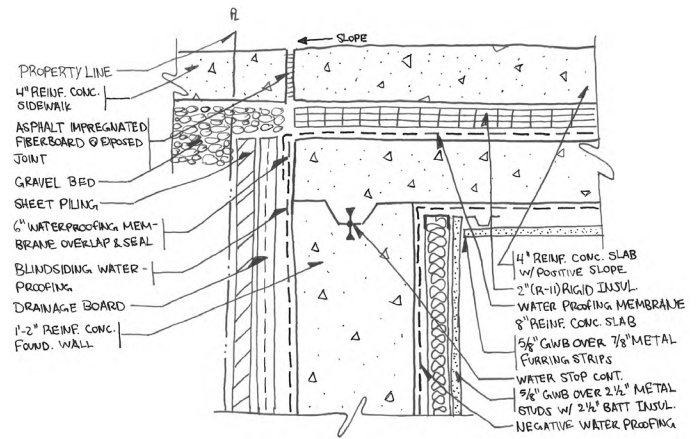
**26 ROOF/EXISTING WALL W/ RAILING DETAIL**  
SCALE: 1 1/2" = 1'-0"



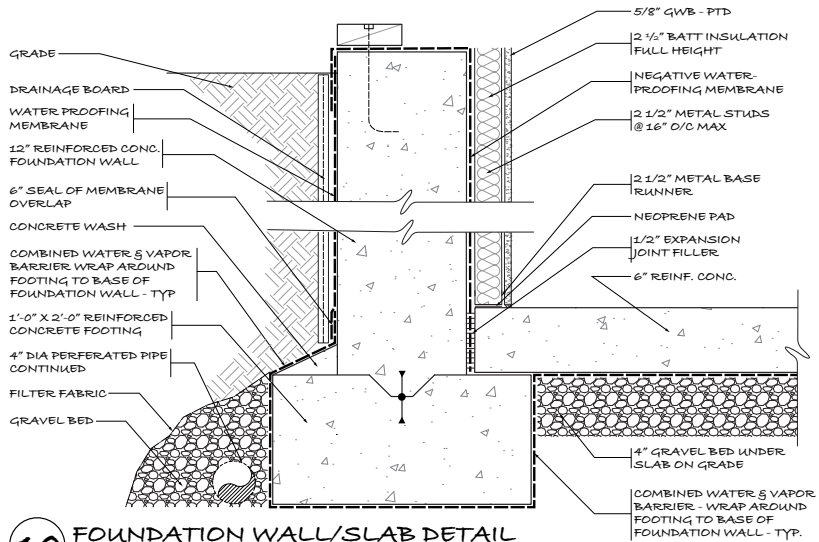
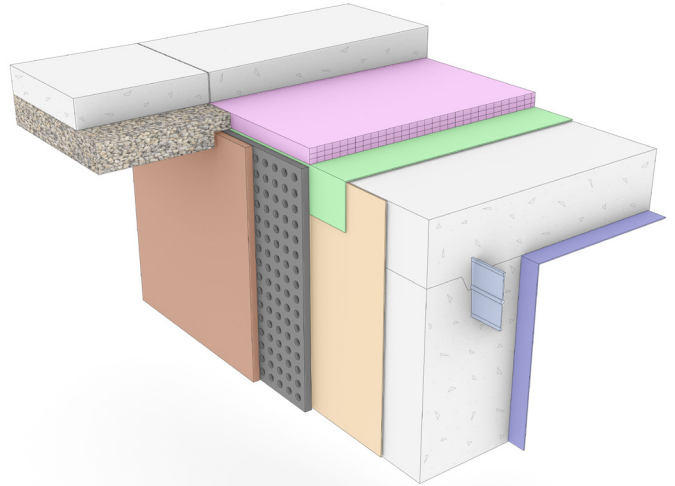




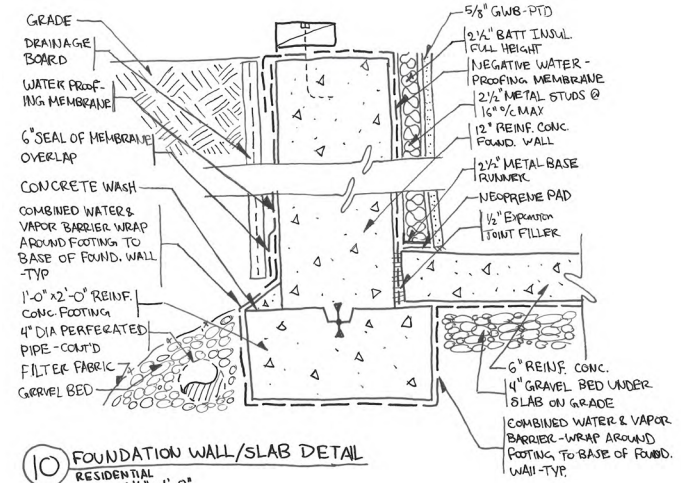
**12 SPLIT - SLAB / FOUNDATION WATER PROOFING DETAIL**  
SCALE: 1 1/2" = 1'-0"



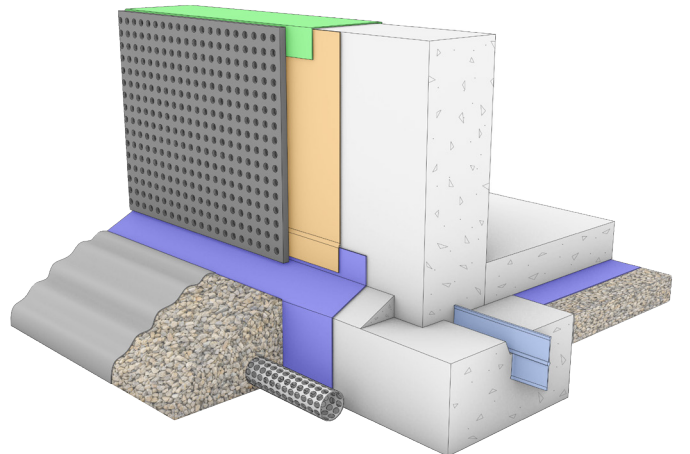
**12 SPLIT-SLAB/FOUNDATION WATER PROOFING DETAIL**  
SCALE: 1 1/2" = 1'-0"

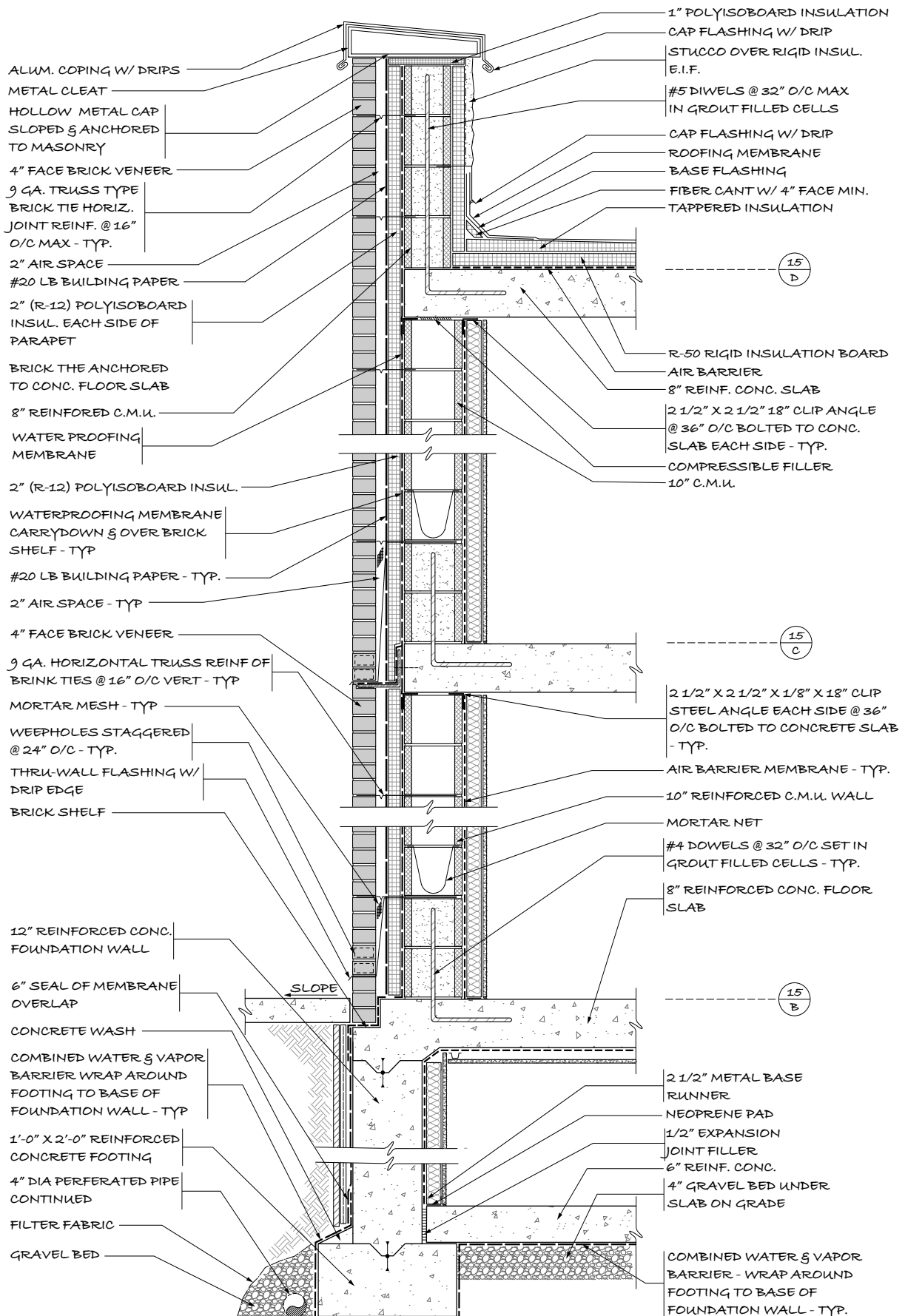


**10 FOUNDATION WALL/SLAB DETAIL**  
RESIDENTIAL SCALE: 1 1/2" = 1'-0"



**10 FOUNDATION WALL/SLAB DETAIL**  
RESIDENTIAL SCALE: 1 1/2" = 1'-0"





# 15 EXTERIOR MASONRY WALL SECTION

SCALE: 1 1/2" = 1'-0"

ARCH2412 - ARCHITECTURE DESIGN IV  
PROFESSOR CHIN  
SPRING 2020

THIS PROJECT WAS LOCATED IN RED HOOK,  
BROOKLYN & THE OBJECTIVE WAS TO CREATE A  
CENTER FOR THE COMMUNITY.

An isometric architectural rendering of a modern building with a green roof. The building features a long, curved facade with a series of vertical fins or louvers. The roof is green and includes several curved, leaf-like structures. The building is situated in an urban environment with other buildings, streets, and trees. The text "HIGHER PLATFORM" is prominently displayed in the center-right of the image.

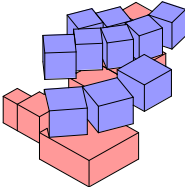
# HIGHER PLATFORM

RHINO  
ILLUSTRATOR

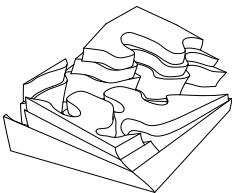
# HIGHER PLATFORM

THE CONCEPT BEHIND HIGHER PLATFORM CAME FROM MY FIRST PROJECT "LEVELS" WHICH WAS BASED ON CONTOUR LINES EXTRACTED FROM AN IMAGE. WHICH LATER LED TO THE DESIGN AND LANGUAGE INTEGRATED INTO THE MASSING AND LANDSCAPE. I WANTED TO CREATE A SENSE OF OPENNESS TO THE COMMUNITY AND USERS OF THE BUILDING. WITH A SLOPED GREEN ROOF, ACCESSIBLE TO THE PUBLIC, TO SLIGHTLY OFFSET LEVEL FLOORS, I IN-VISIONED A RECREATIONAL CENTER THAT'S COMFORTABLE TO ALL.

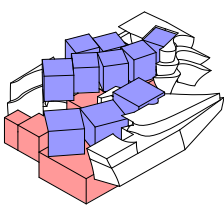
## SITE ANALYSIS



PROGRAM ANALYSIS



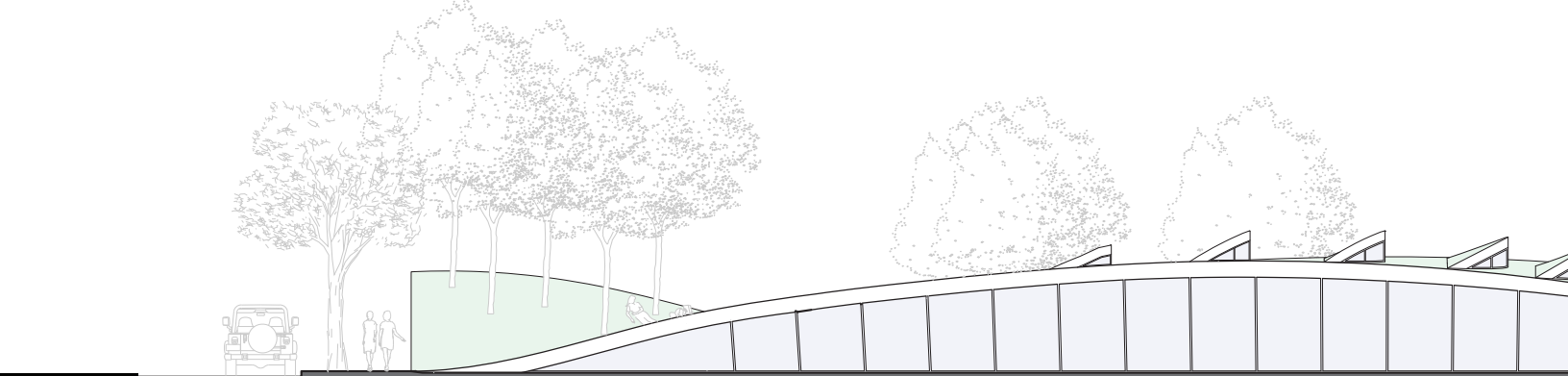
FIRST PROJECT CONTOUR LINES



COMBINATION OF PROGRAMS & CONTOUR LINES

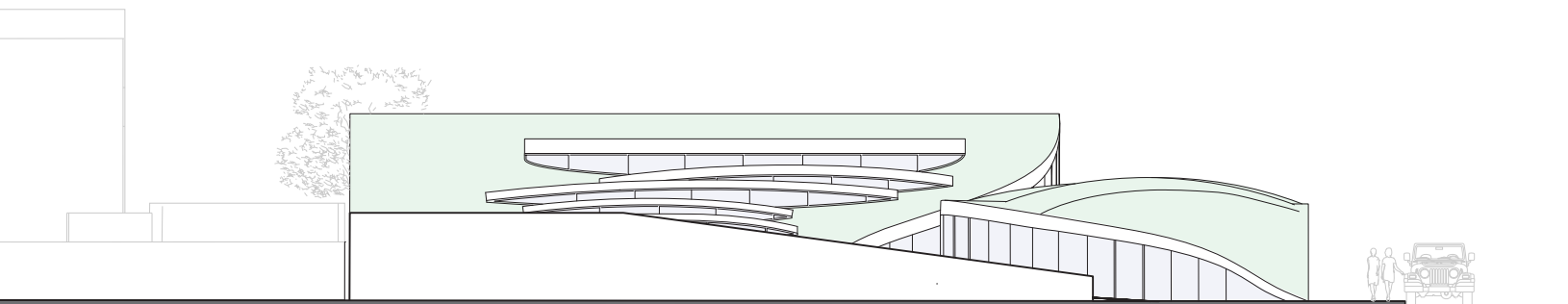


NORTH WEST ELEVATION

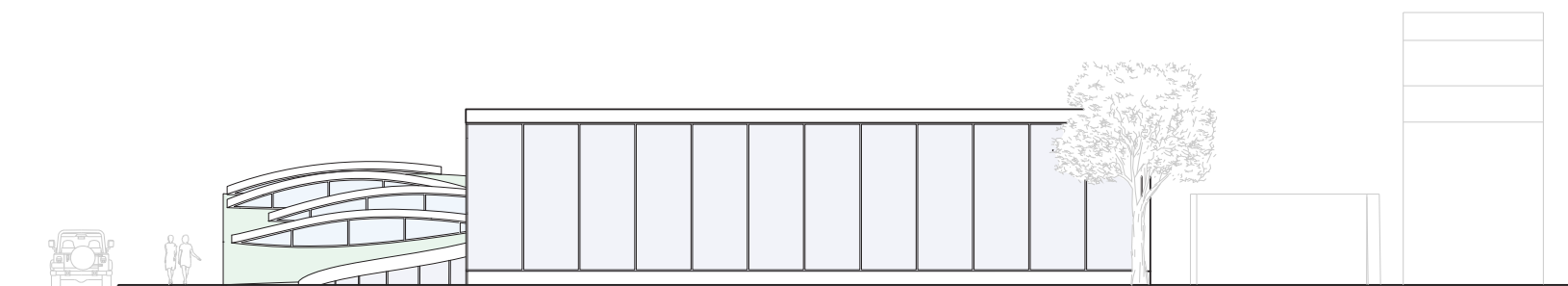


NORTH WEST ELEVATION

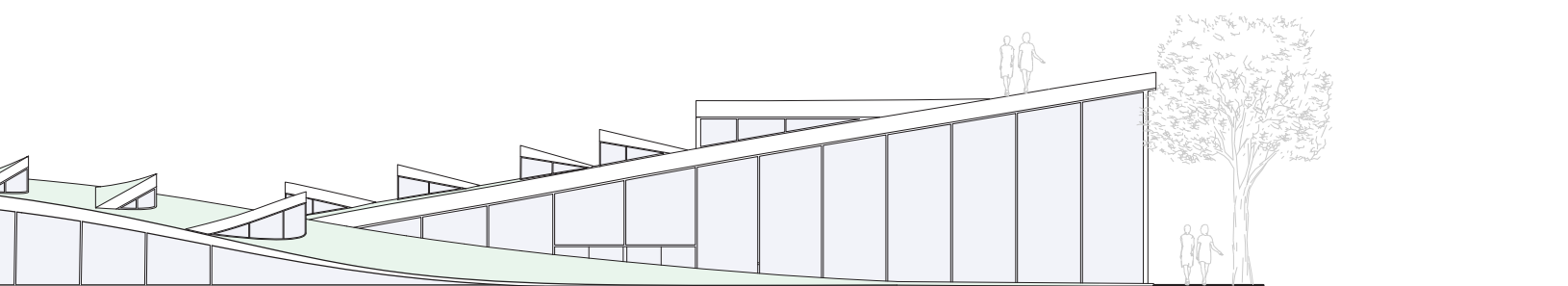


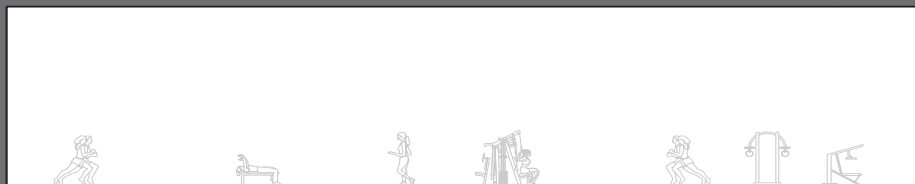
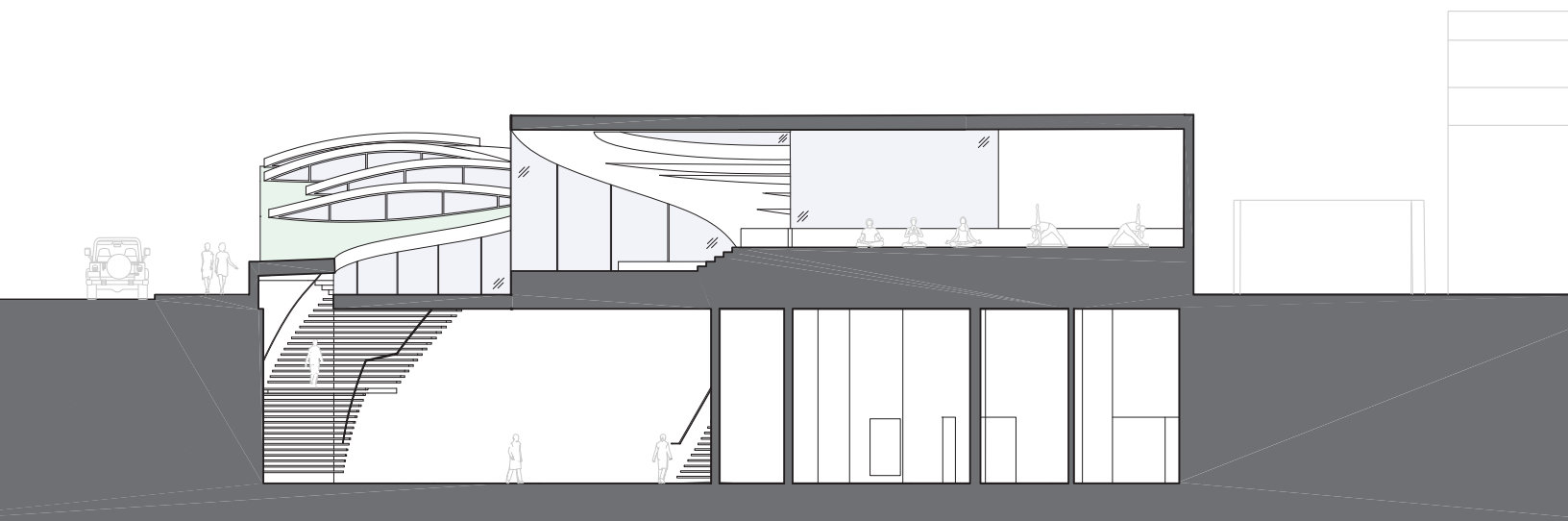
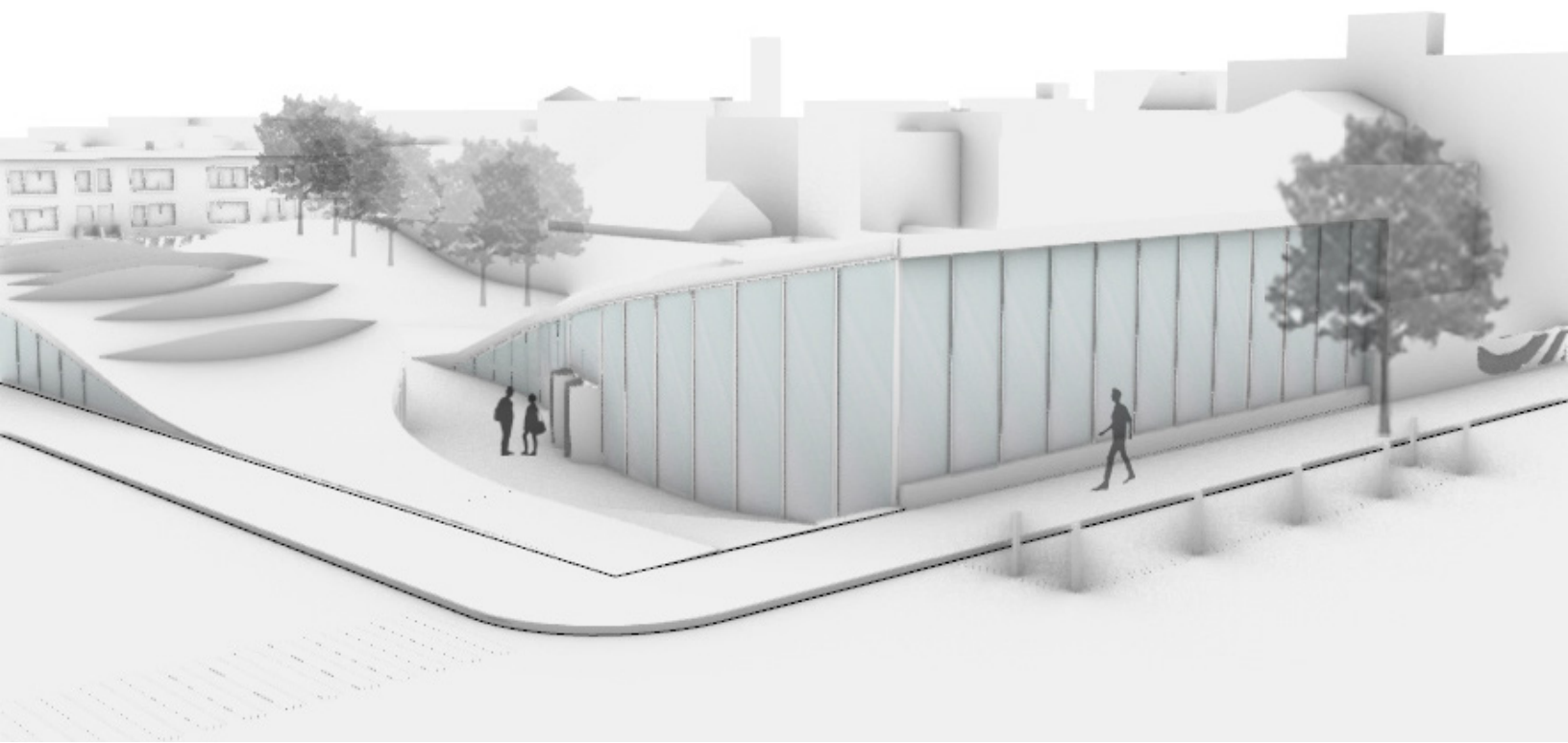


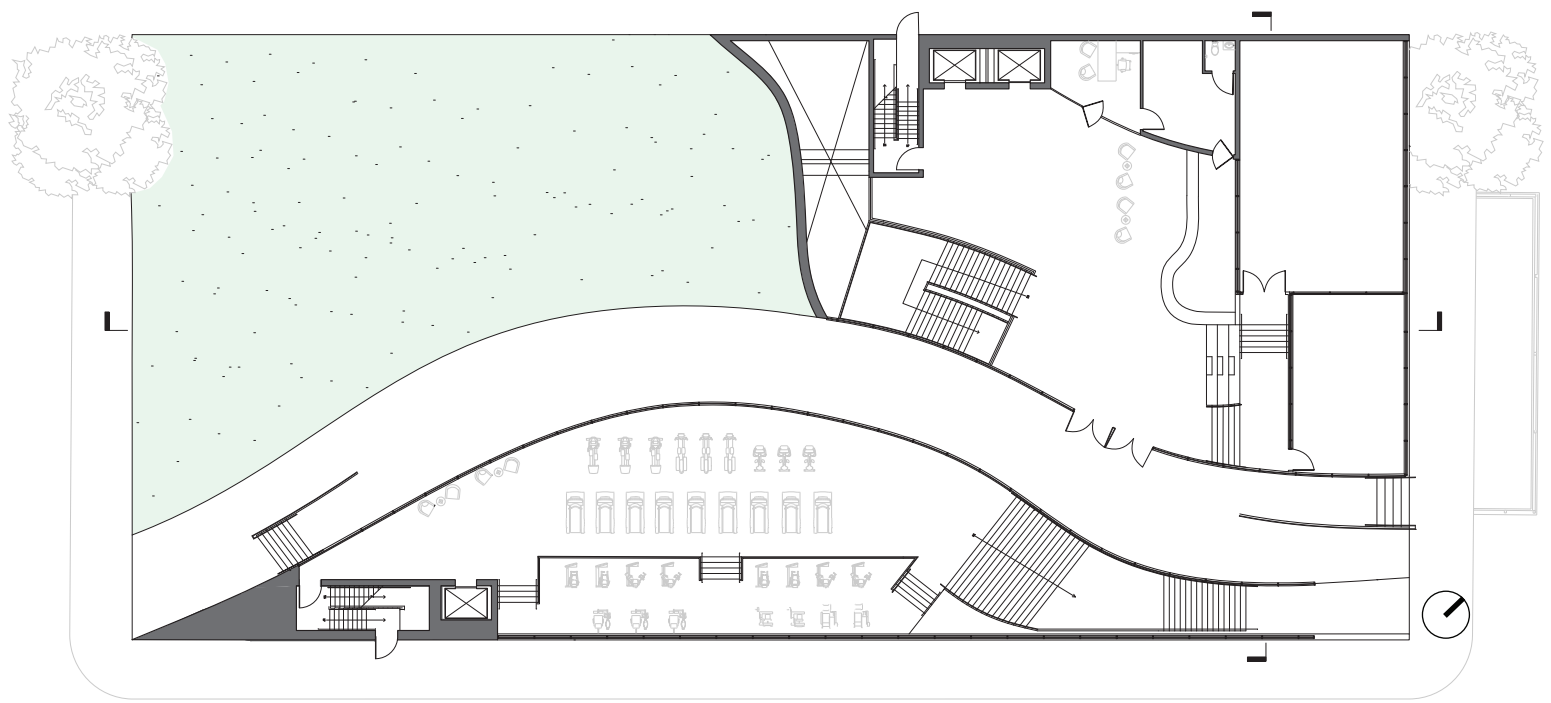
NORTH EAST ELEVATION



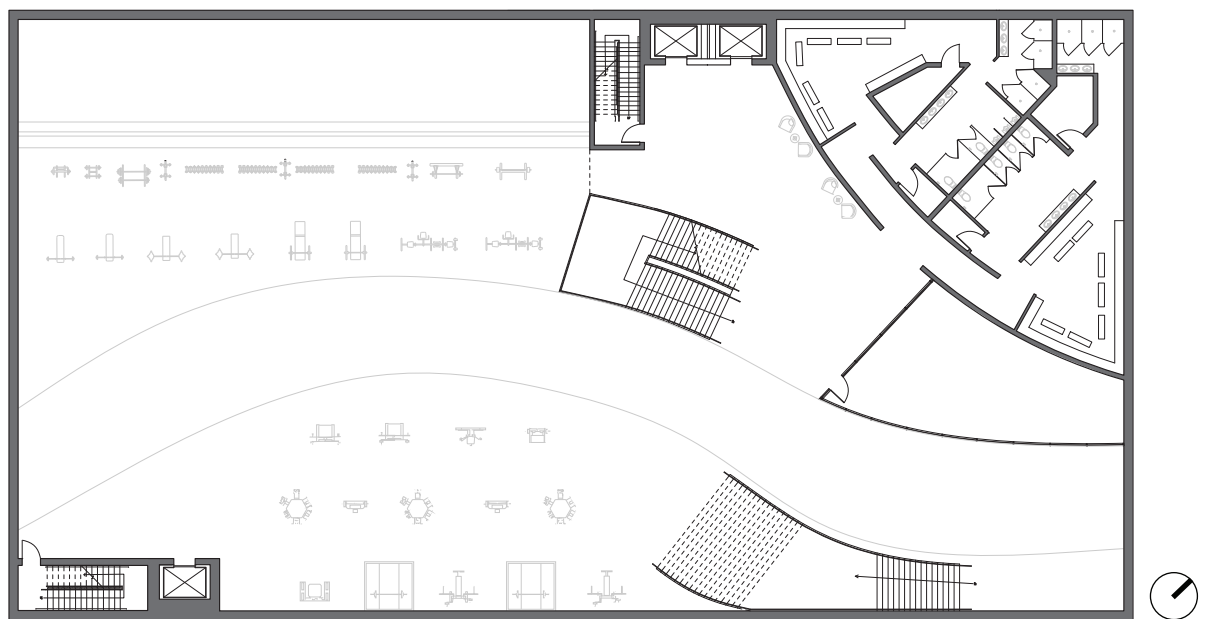
SOUTH WEST ELEVATION



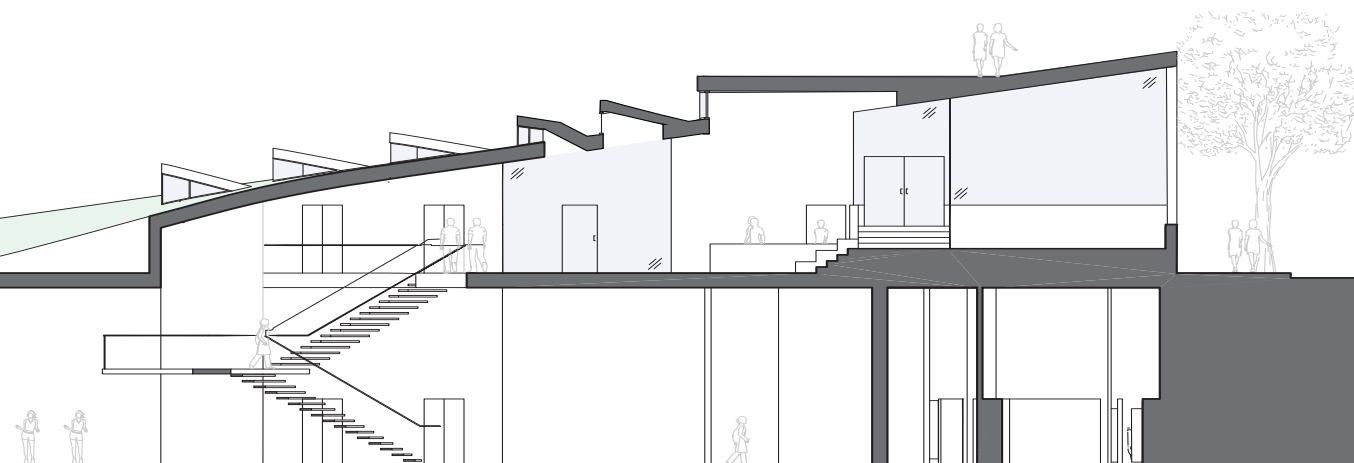




GROUND LEVEL



LOWER LEVEL





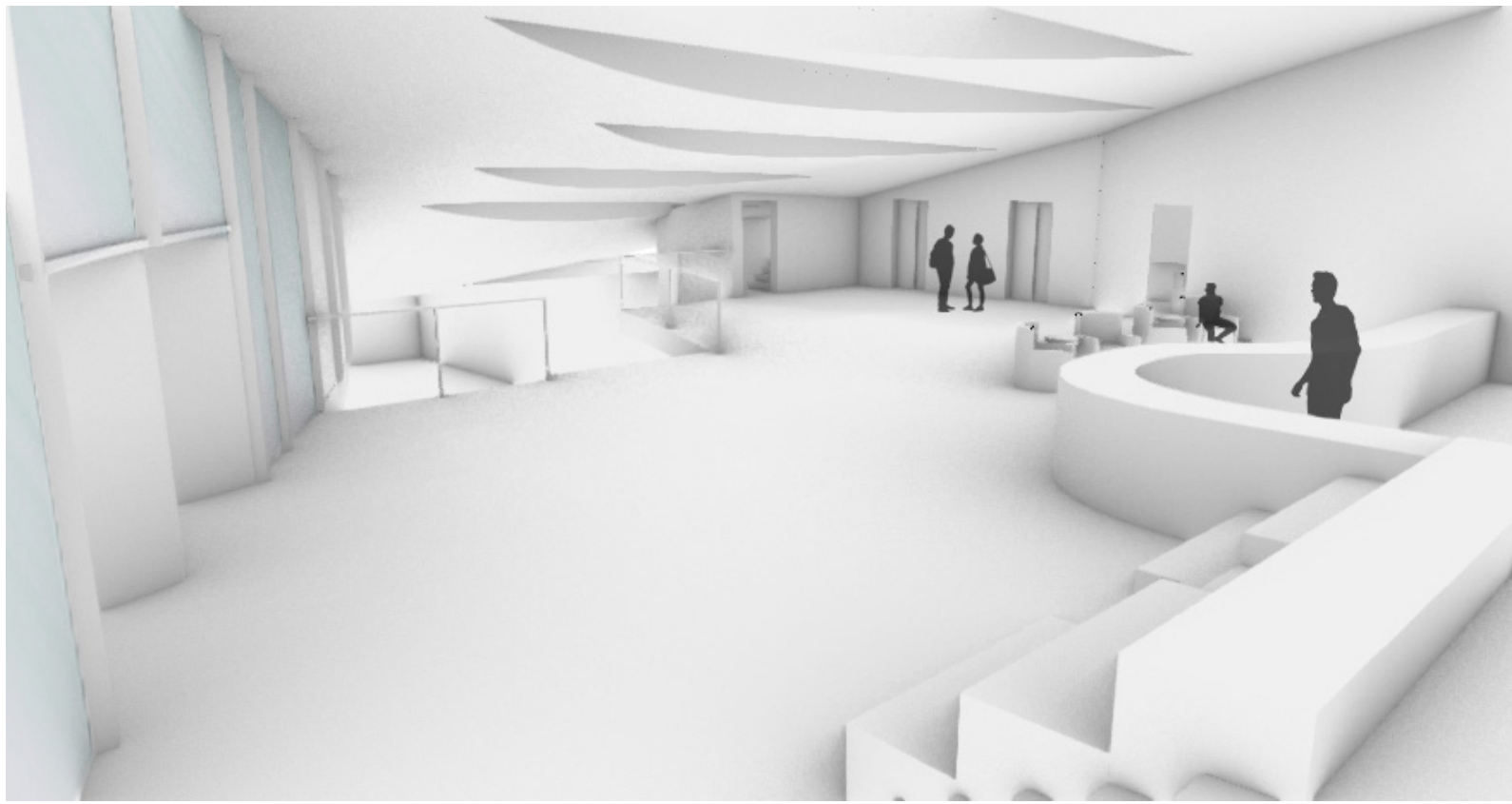
**MAIN LOBBY - ARTIC MODE RHINO**



**EXTER - ARTIC MODE RHINO**

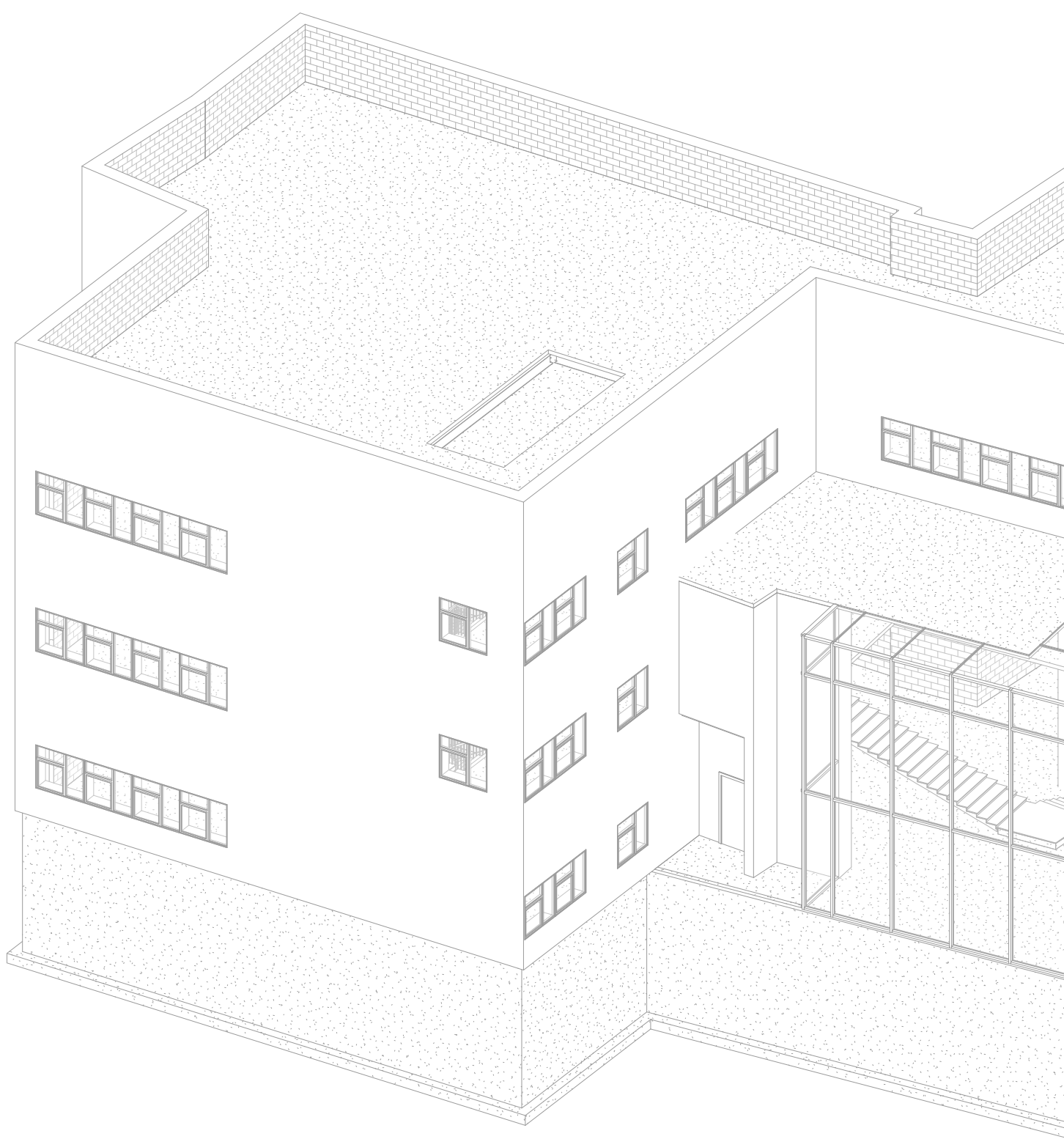


**MAIN LOBBY - ARTIC MODE RHINO**



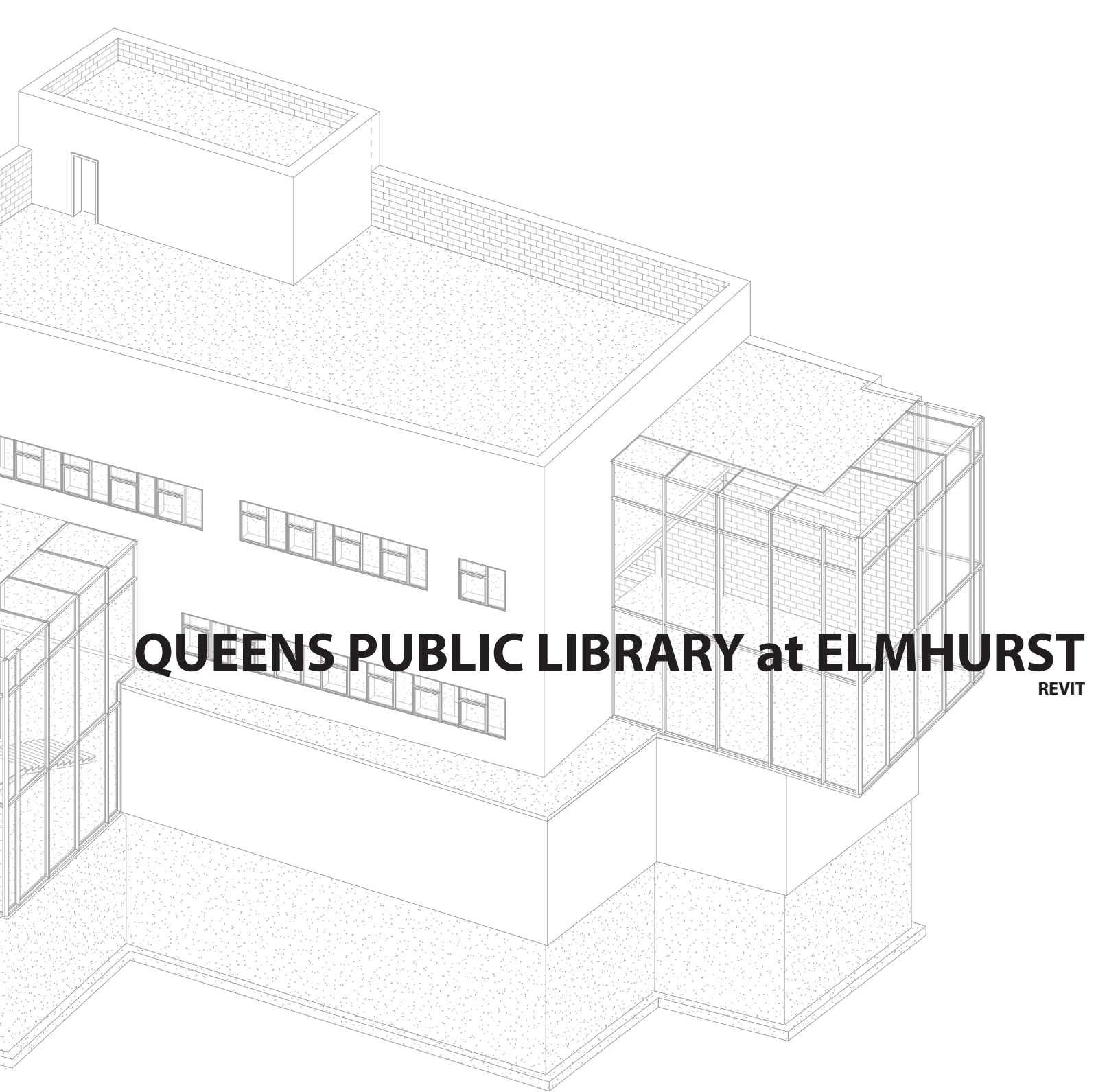
**MAIN LOBBY - ARTIC MODE RHINO**





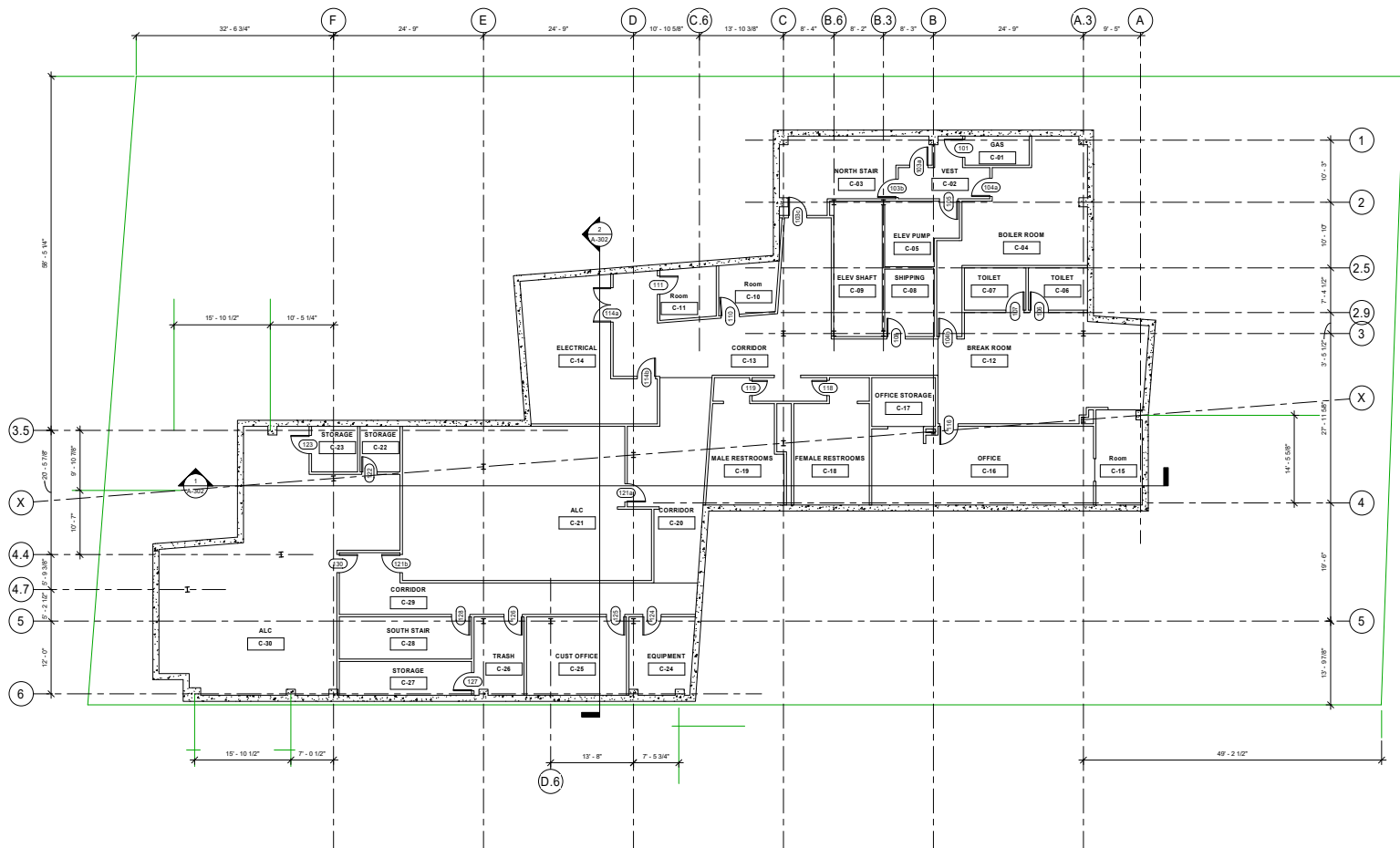
ARCH2431 - BUILDING TECHNOLOGY III  
PROFESSOR KING  
SPRING 2020

THIS PROJECT I HAD TO STUDY AN EXISTING  
BUILDING AND RECONSTRUCT FLOOR PLANS AND  
TYPICAL PARTITION TYPES ALONG WITH A FEW  
TYPICAL STRUCTURAL CONNECTIONS.

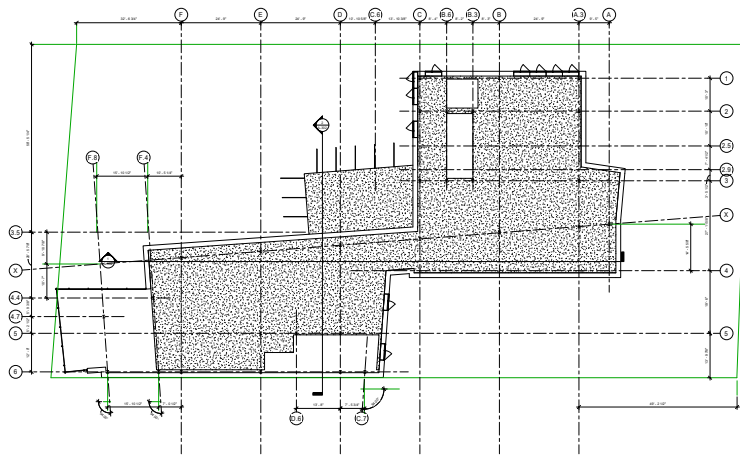
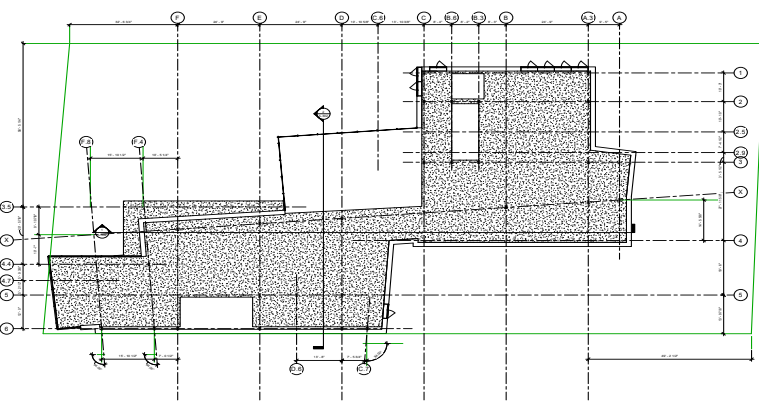
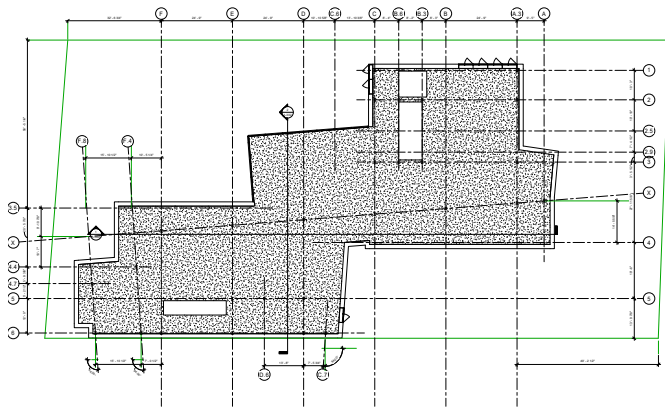


# QUEENS PUBLIC LIBRARY at ELMHURST

REVIT

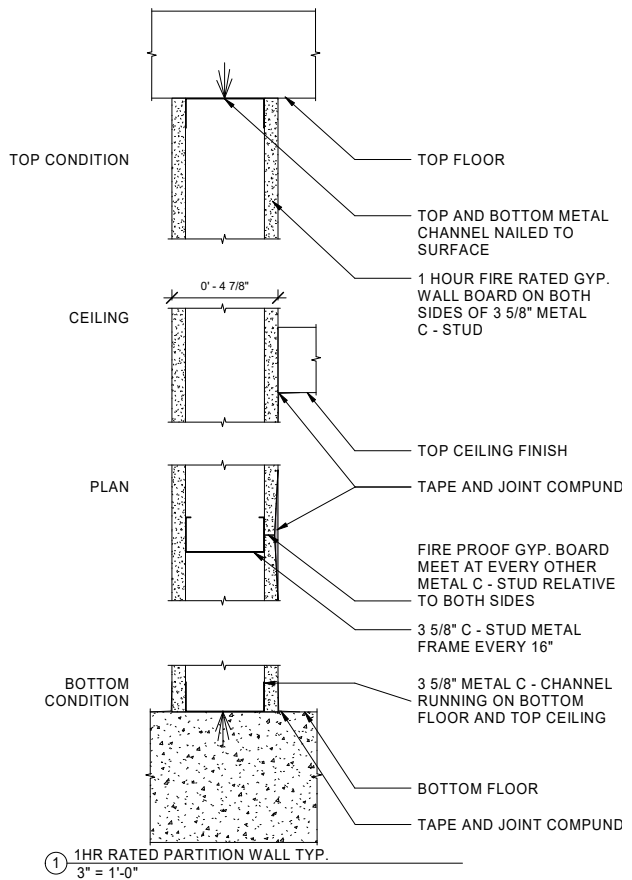
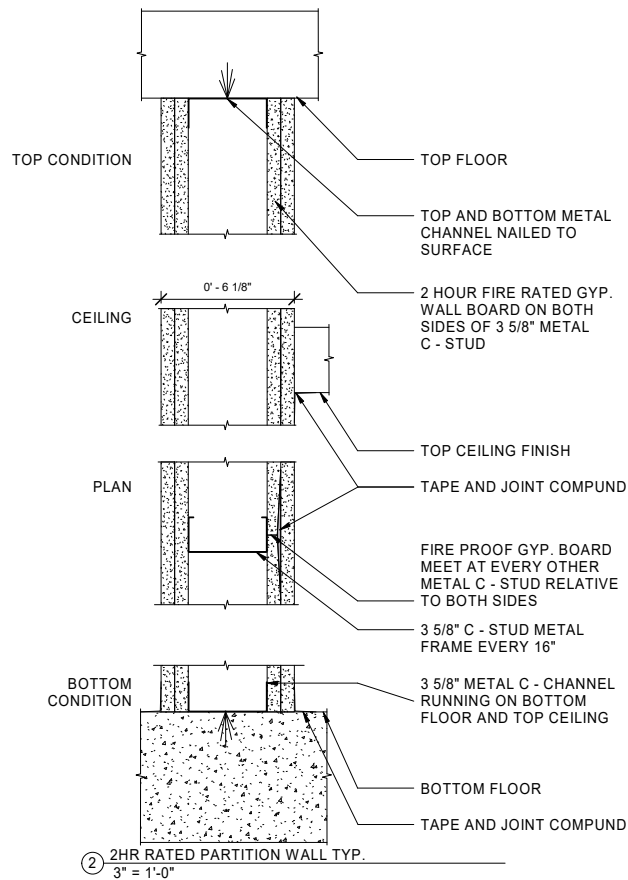


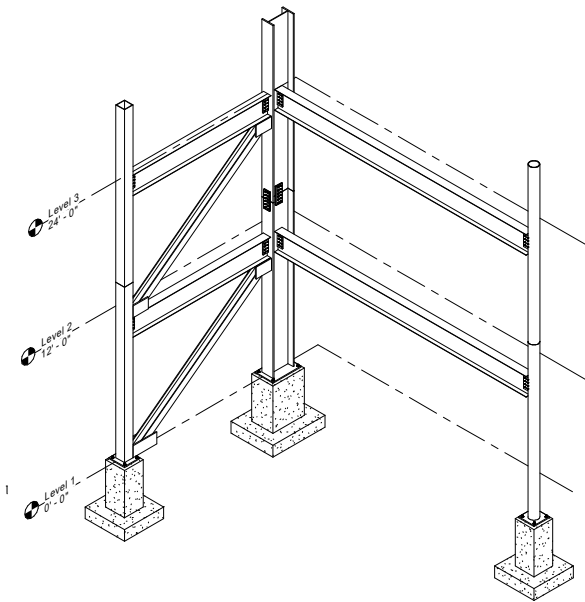
1 Cellar  
1/8" = 1'-0"



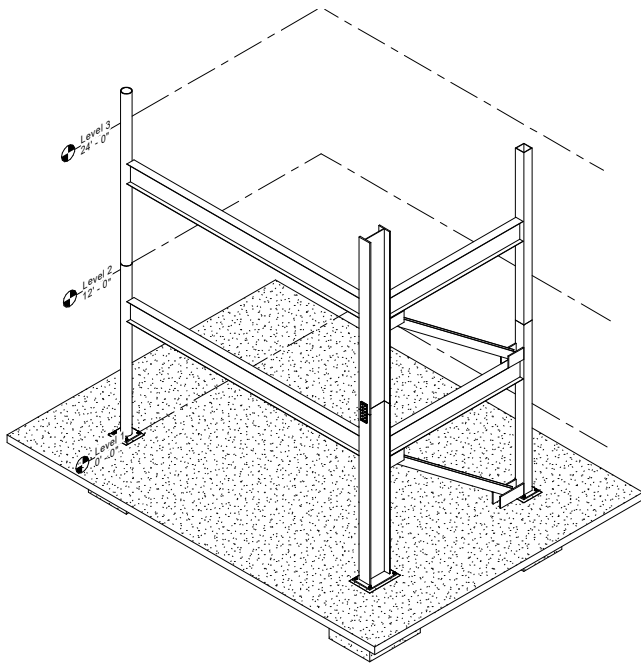


① Cellar  
1/8" = 1'-0"

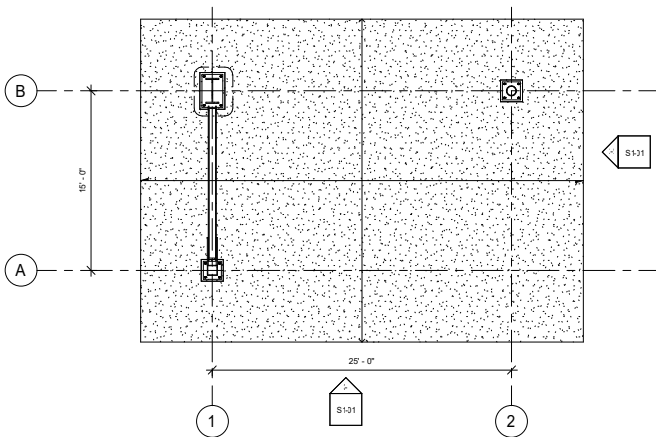




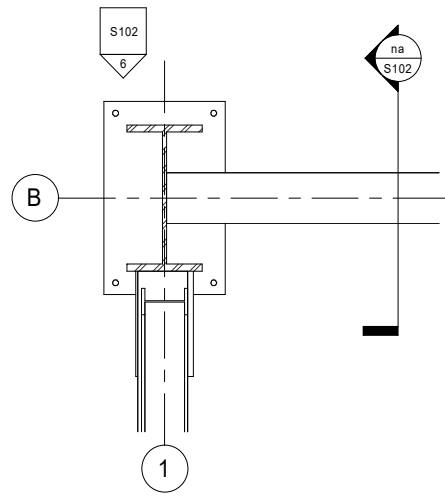
⑥ Isometric SE



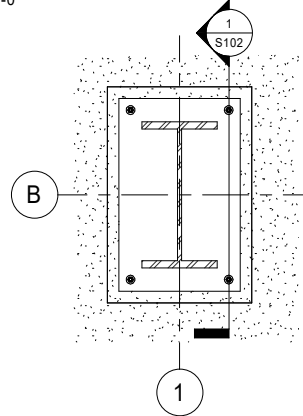
⑤ Isometric NW



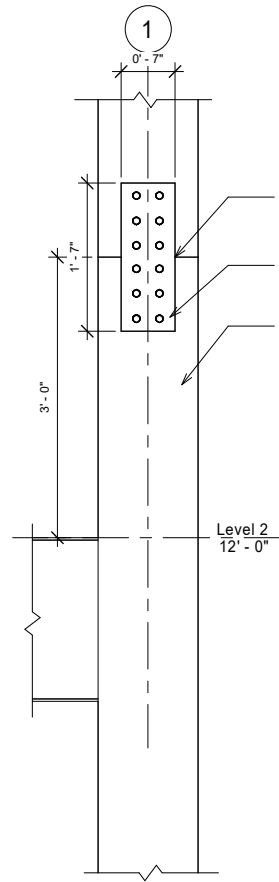
④ Level 1  
3/16" = 1'-0"



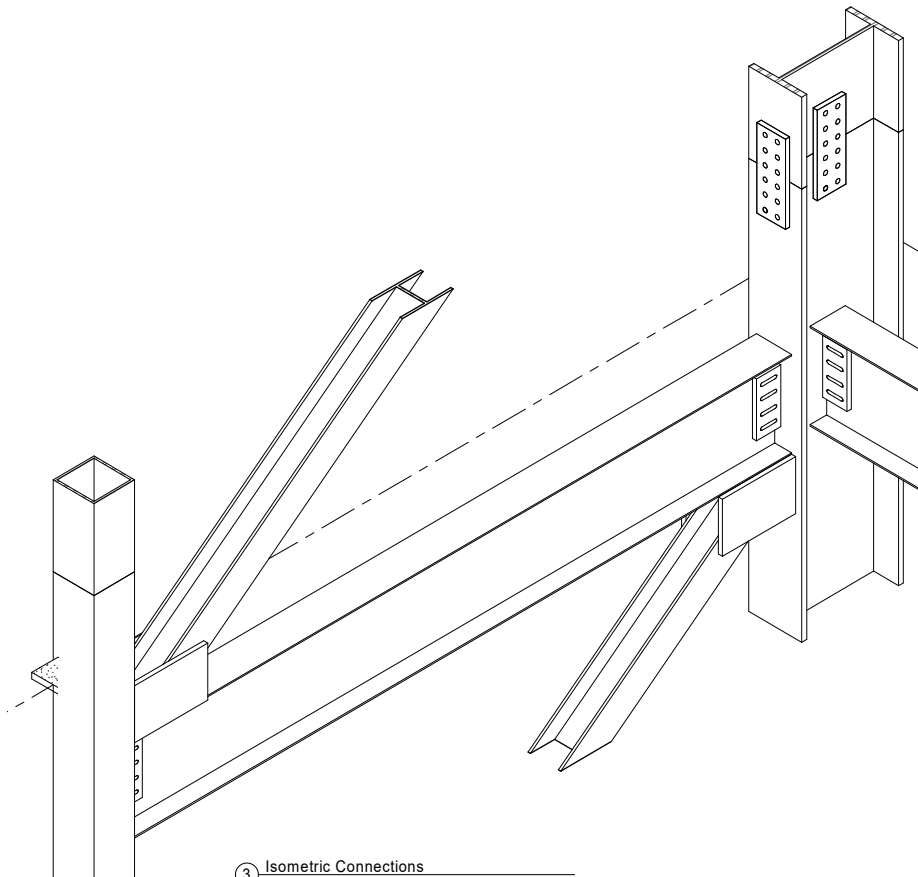
⑤ Level 2 - Plan View  
3/4" = 1'-0"



④ Level 1 - Plan View  
3/4" = 1'-0"

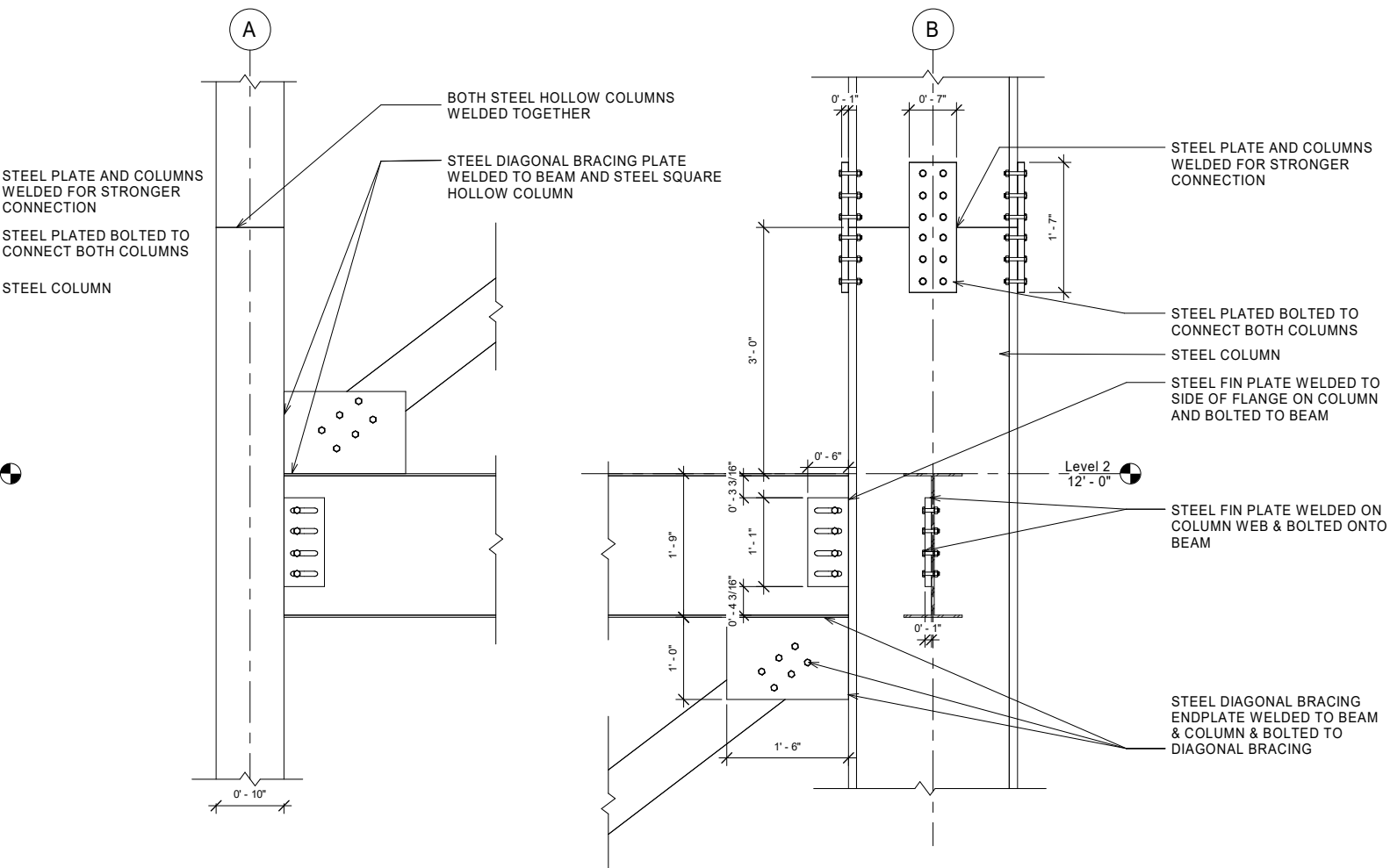


⑥ Elevation Column Plate Connection  
1" = 1'-0"

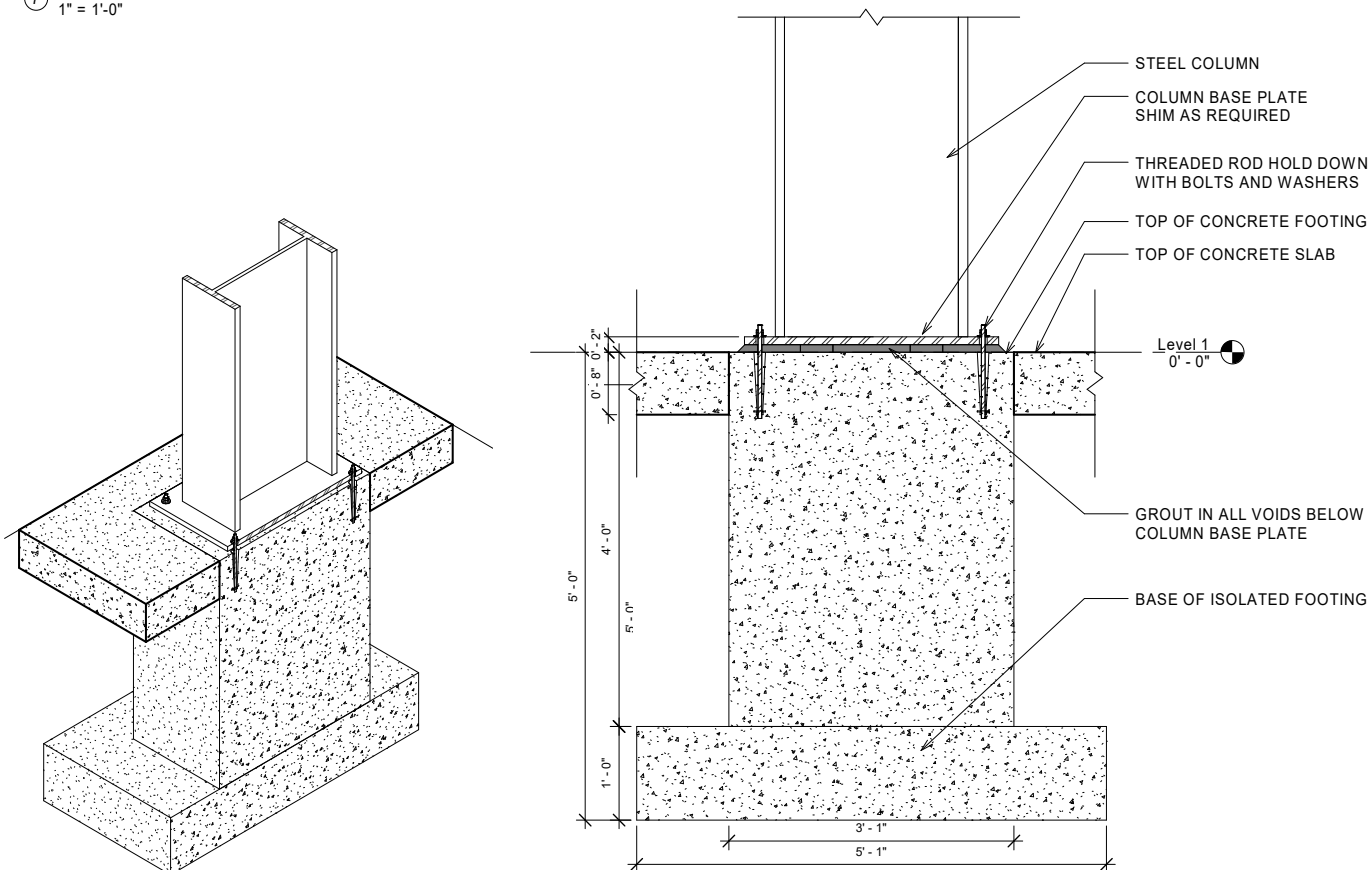


③ Isometric Connections





7 Section Detail Copy 1  
1" = 1'-0"



1 Typical Footing Section  
1" = 1'-0"

2 Footing Isometric

ARCH2431 - BUILDING TECHNOLOGY III  
PROFESSOR KING  
SPRING 2020

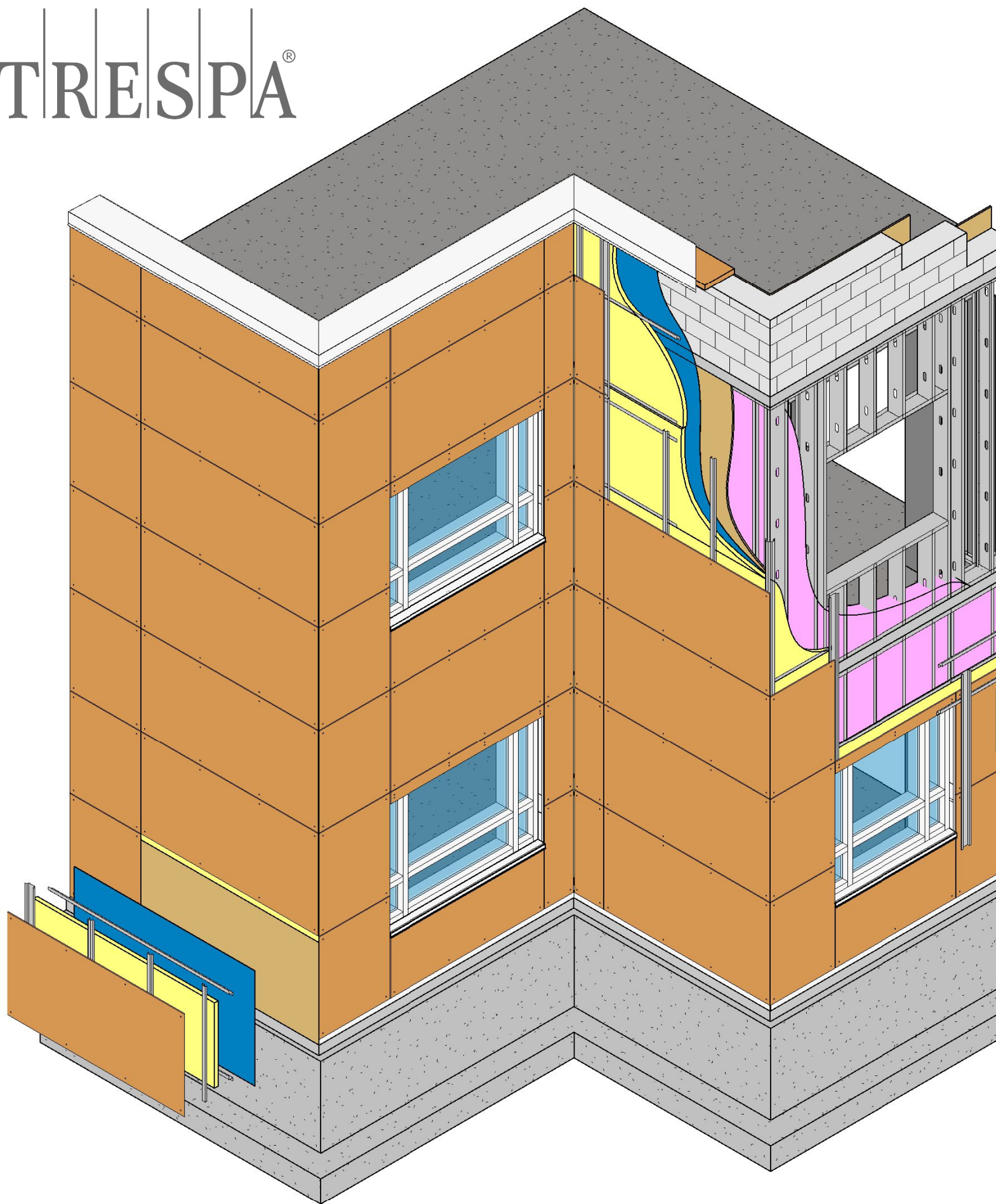
THIS PROJECT I HAD TO STUDY TWO DIFFERENT  
TYPES OF FACADES. USING REVIT I HAD TO APPLY  
THE SYSTEM TO A 3D MODEL PROVIDED BY  
PROFESSOR KING.

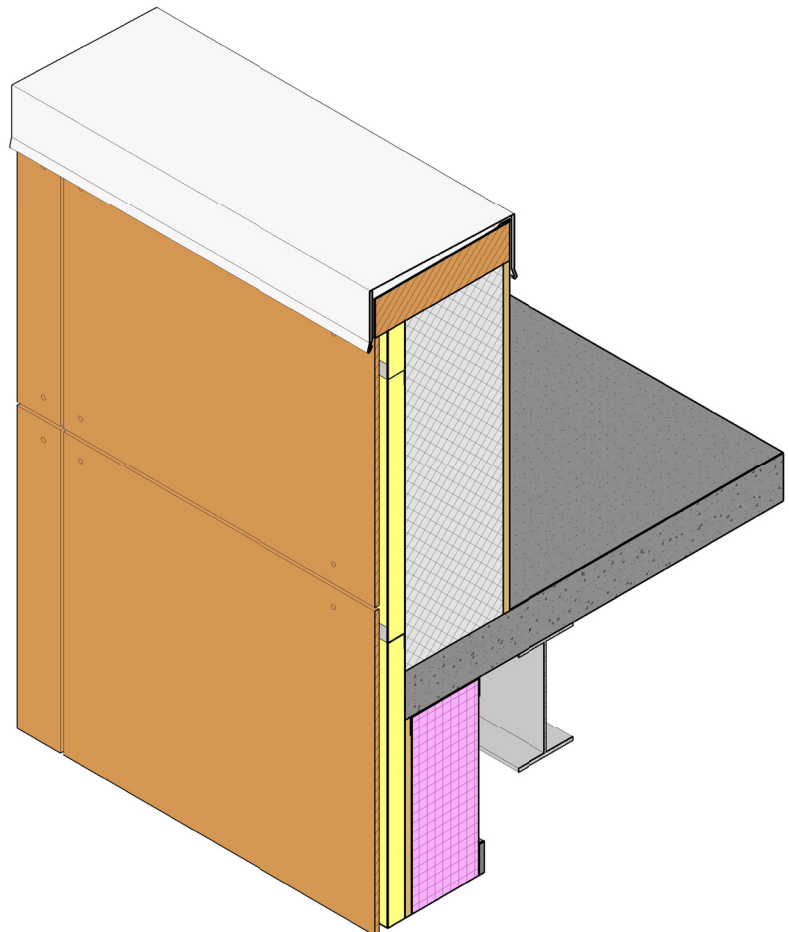
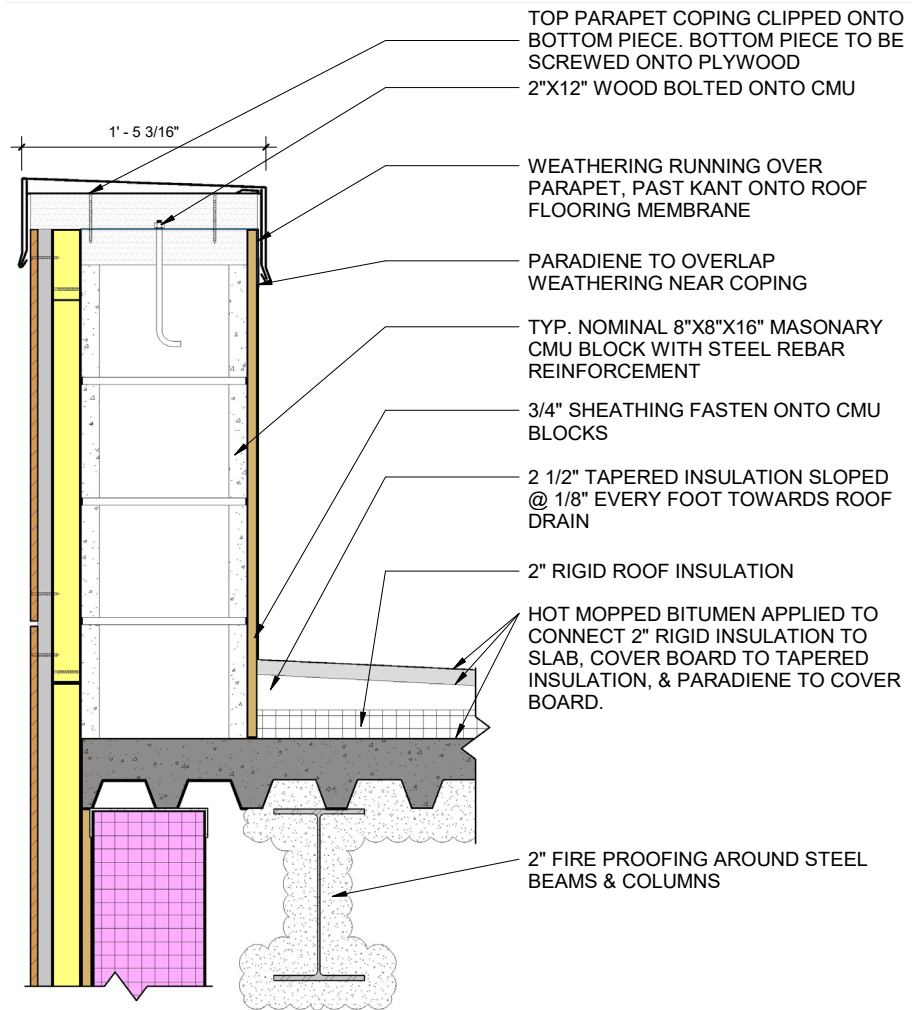
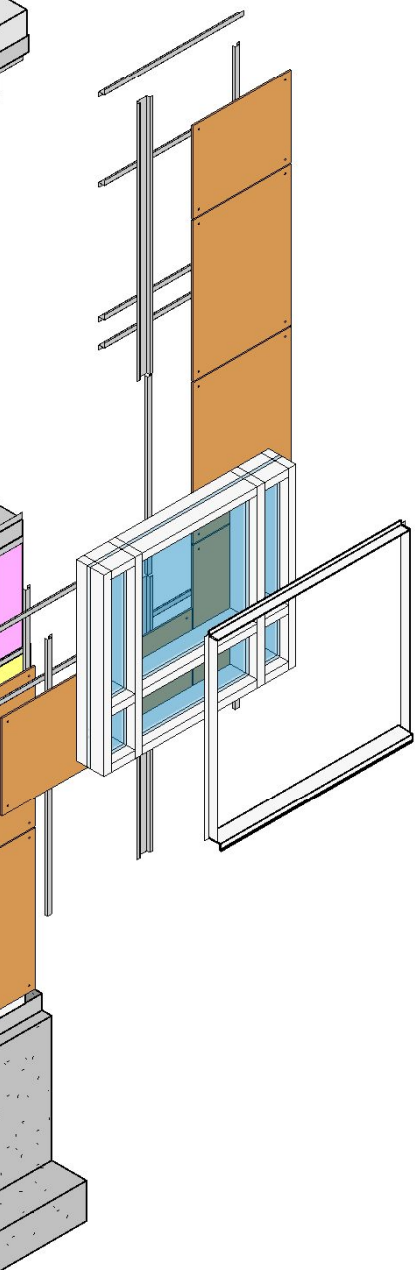
An isometric architectural line drawing of a building's corner facade. The drawing illustrates the integration of opaque masonry and glass curtain wall systems. The top of the corner is finished with a brick pattern. The main facade is composed of large rectangular panels, some of which are glass, showing internal structural elements like mullions and transoms. To the right, a glass door or window unit is shown in an exploded view, revealing its internal frame and glazing details. The drawing is a technical study of facade construction.

# **OPAQUE & GLASS FACADE STUDY**

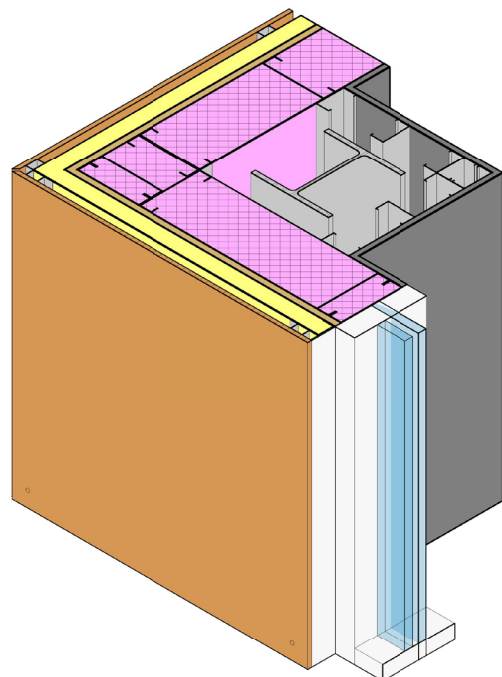
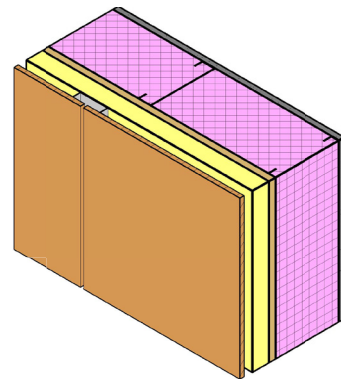
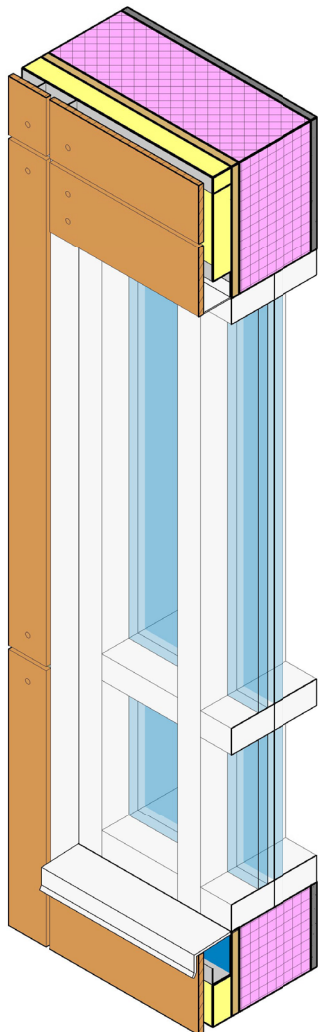
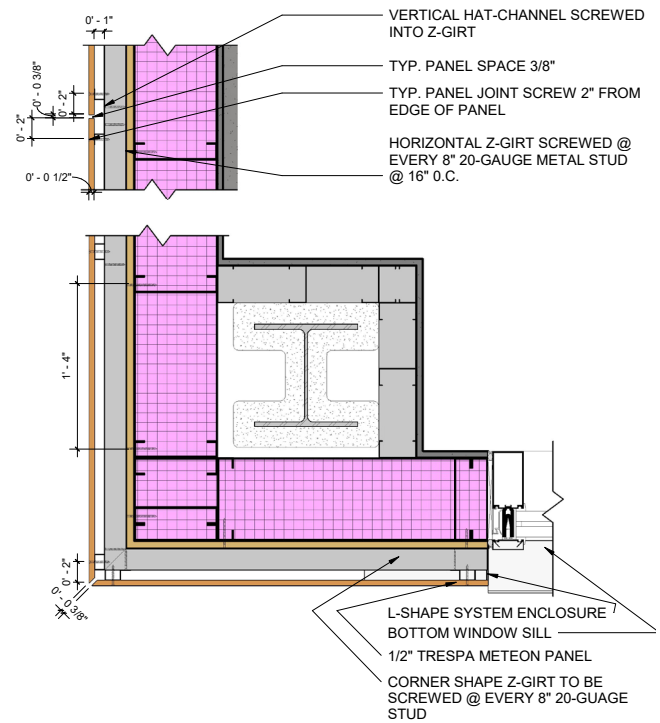
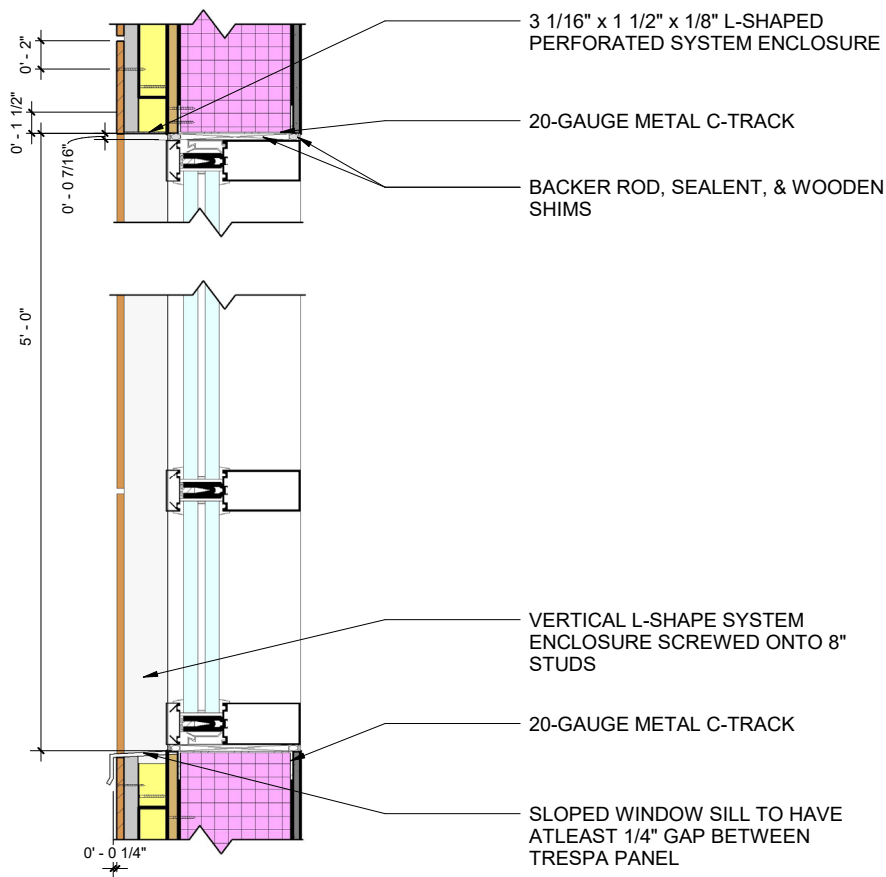
REVIT

TRESPA®









8" RIGID INSULATION

J-CHANNEL SCREWED  
ONTO HORIZONTAL  
Z-GIRT

TRESPA PANEL TO BE  
SCREWED 2" AWAY  
FROM EDGE OF PANEL,  
EVERY OTHER SCREW  
TO BE EQUALLY SPACED

3/8" SPACING BETWEEN  
PANELS AT CORNER  
WITH 45 DEG. ANGLE

1/2" TRESPA METEON  
PANEL

0' - 2"  
0' - 1"  
0' - 2"  
0' - 8"  
0' - 0 5/8"  
0' - 0 3/4"

TYP. BACKUP WALL WITH 3/4"  
SHEATHING ON OUTER SIDE, 8"  
METAL STUDS 16" APART OC,  
5/8" GYPSUM WALLBOARD ON  
EXTERIOR

VARIES (2" MIN.) AIR GAP  
BEHIND TRESPA SYSTEM  
HORIZONTAL ALUMINUM  
Z-GIRT SCREWED @ EVERY  
STUD

1/2" TRESPA METEON  
WOODEN PANEL

DISTANCE BETWEEN  
PANEL SYSTEM AND  
GRADE

VERTICAL J-CHANNEL  
AT EVERY JOINT  
DEPENDING ON PANEL

CUSTOM 1/16"  
PERFORATED T-CHANNEL  
SYSTEM ENCLOSURE

WEATHER MEMBRANE  
RUNNING DOWN TO  
FOOTING

CONCRETE  
FOUNDATION WALL

EARTH

FILTER FABRIC

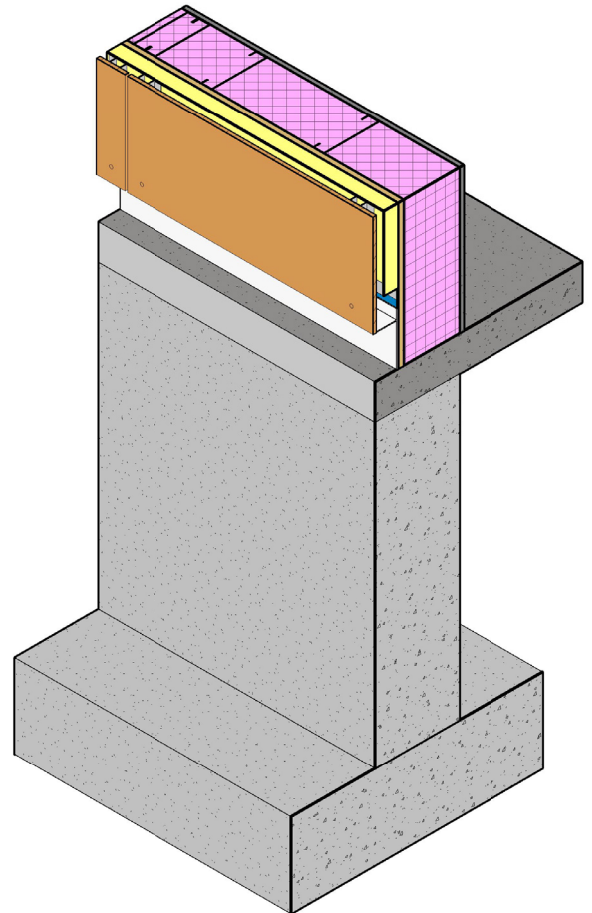
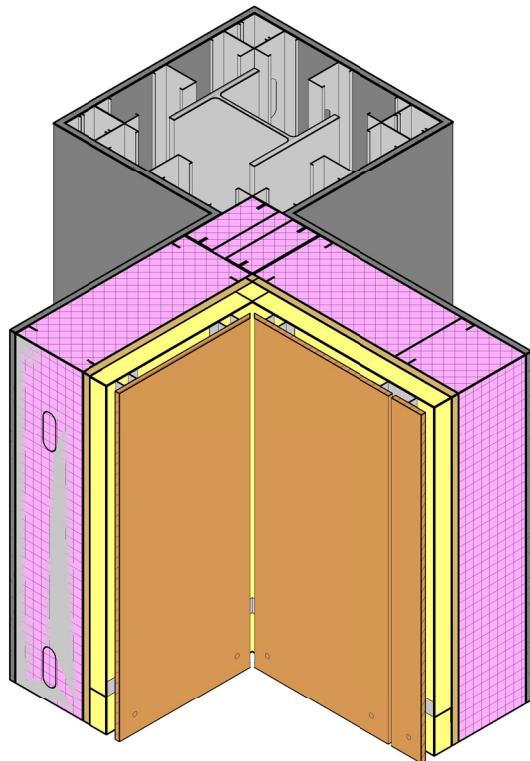
GRAVEL FILL

CONCRETE  
FOUNDATION FOOTING

6" PERFORATED  
DRAIN TUBE

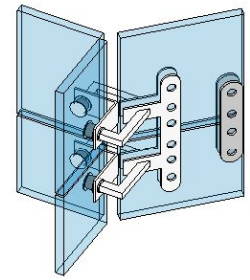
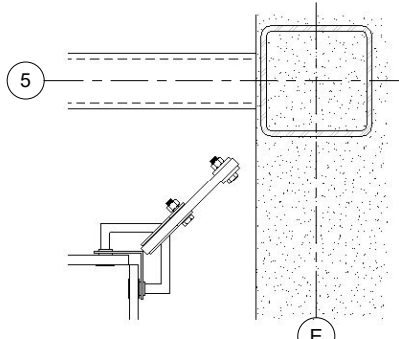
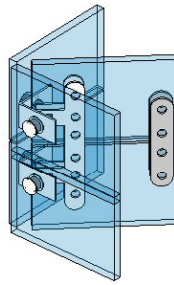
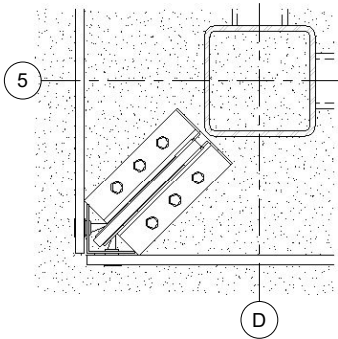
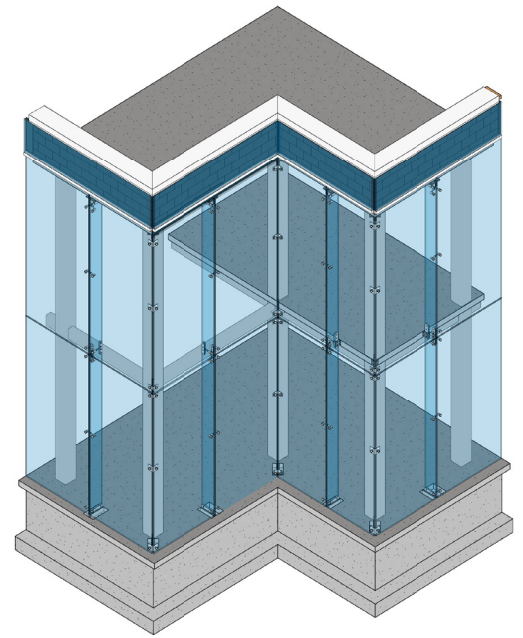
0' - 2"  
0' - 1"  
0' - 9 7/16"

0' - 6"  
0' - 2"  
0' - 1"





# PILKINGTON

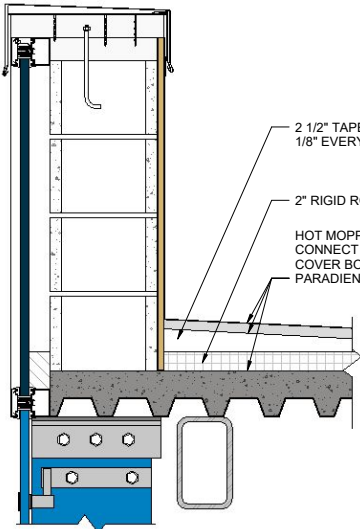


5 OUTER CORNER @ TWO PANELS  
1 1/2" = 1'-0"

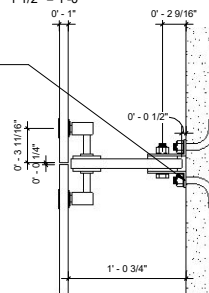
29 CONNECTION @ TWO PANELS AXON

5 INNER CORNER CONDITION  
1 1/2" = 1'-0"

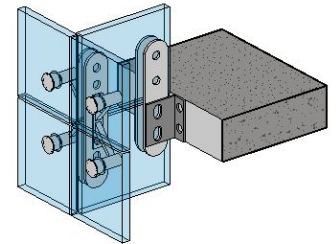
27 INNER CORNER BRACE



GLASS FIN SECURED TO SLAB WITH L-SHAPE BRACKET, ANCHORED TO SLAB

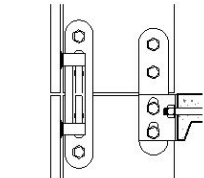


25 PLAN VIEW @ SLAB  
1 1/2" = 1'-0"



26 MID SLAB CONNECTION AXON

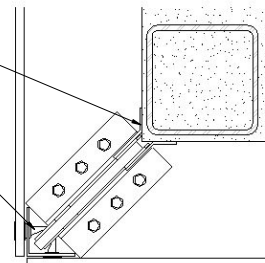
30 CURTAIN WALL @ PARAPET  
1 1/2" = 1'-0"



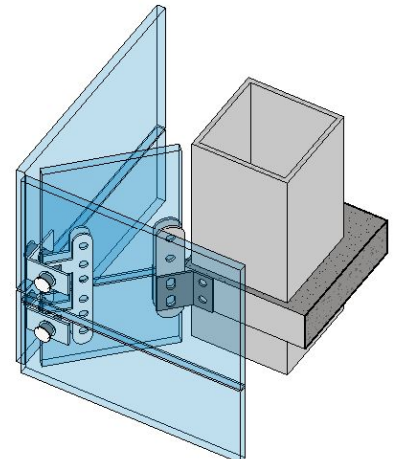
24 GLASS FIN @ SLAB  
1 1/2" = 1'-0"

135 DEG. ANGLE BRACE TO BE ANCHORED TO SLAB & BOLTED ONTO 4 PUNCH PLATE SECURING GLASS FIN

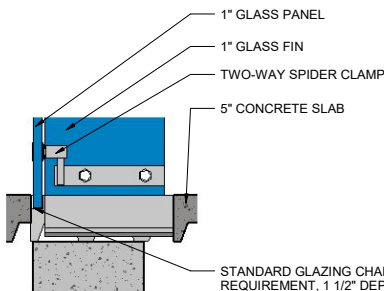
90 DEG. BRACE CONNECTED TO 6 PUNCH SPLICE PLATE. SPLICE PLATE BOLTED TO GLASS FIN.



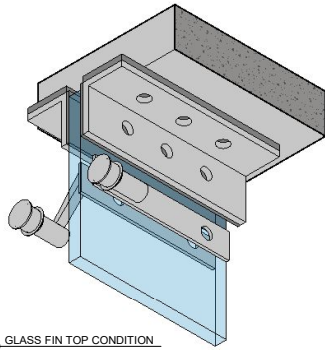
22 OUTER CORNER @ SLAB  
1 1/2" = 1'-0"



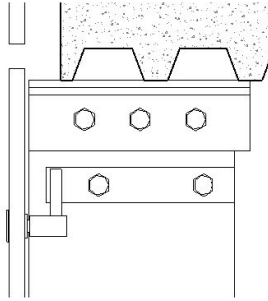
23 OUTER CONDITION AXON



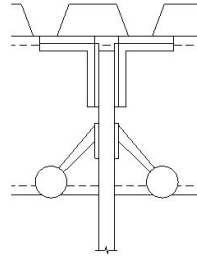
21 GLASS PANEL @ SLAB  
1 1/2" = 1'-0"



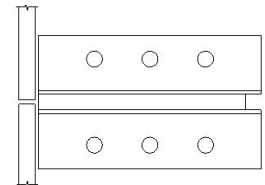
16 GLASS FIN TOP CONDITION  
3" = 1'-0"



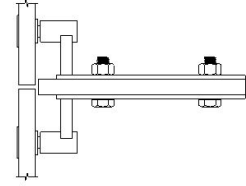
17 GLASS FIN TOP CONDITION ELEVATION  
3" = 1'-0"



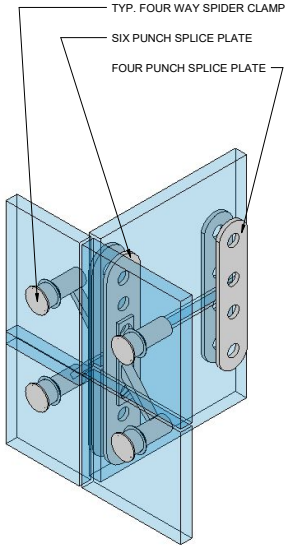
18 GLASS FIN TOP FRONT  
3" = 1'-0"



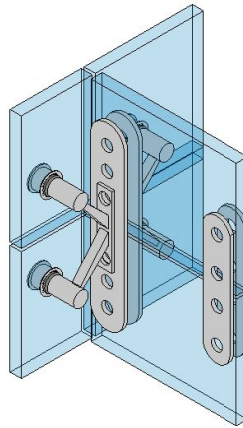
20 R.C.P. VIEW  
3" = 1'-0"



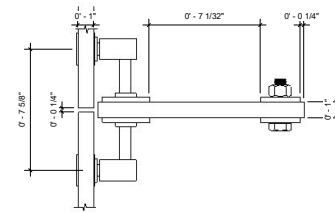
19 PLAN VIEW SPIDER  
3" = 1'-0"



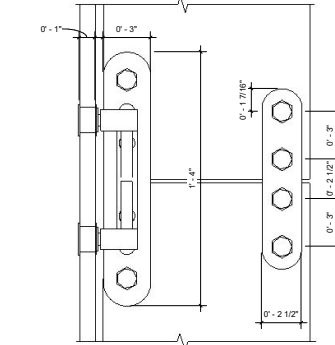
11 FOUR-WAY SPIDER FRONT AXON  
3" = 1'-0"



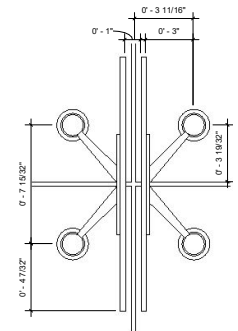
12 CW SPIDER CONNECTION  
3" = 1'-0"



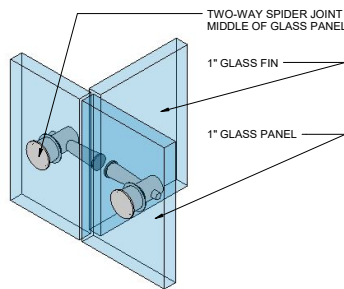
13 SPIDER CONNECTION PLAN  
3" = 1'-0"



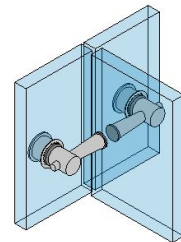
13 CW SECTION - SPIDER CALLOUT  
3" = 1'-0"



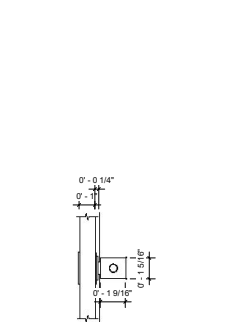
14 SPIDER ELEVATION  
3" = 1'-0"



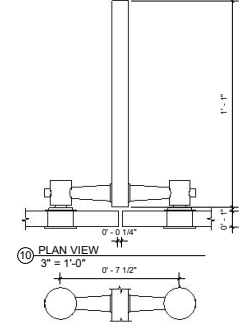
6 MIDDLE CONDITION FRONT AXON  
3" = 1'-0"



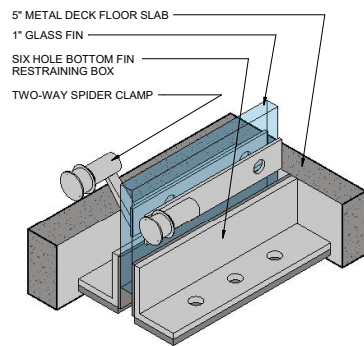
7 MIDDLE CONDITION BACK AXON  
3" = 1'-0"



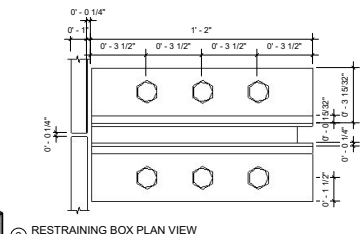
8 TWO-WAY SPIDER SIDE ELEVATION  
3" = 1'-0"



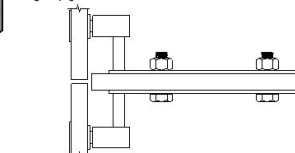
9 TWO-WAY SPIDER FRONT ELEVATION  
3" = 1'-0"



1 GLASS FIN BOTTOM AXON  
3" = 1'-0"



2 RESTRAINING BOX PLAN VIEW  
3" = 1'-0"

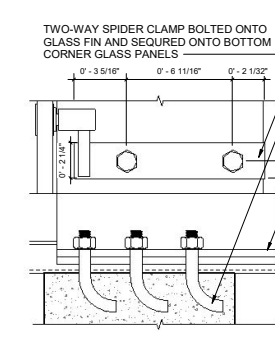


3 TWO-WAY SPIDER PLAN VIEW  
3" = 1'-0"

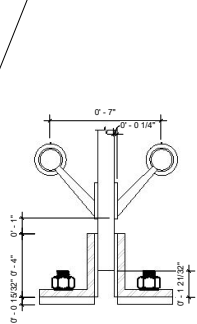
GLASS FIN RESTRAINING BOX SUBMERGED INTO SLAB

THREE 3/4" ANCHOR BOLTS ON EACH SIDE

TWO-WAY SPIDER CLAMP BOLTED ONTO GLASS FIN AND SECURED ONTO BOTTOM CORNER GLASS PANELS



4 GLASS FIN SIDE ELEVATION  
3" = 1'-0"

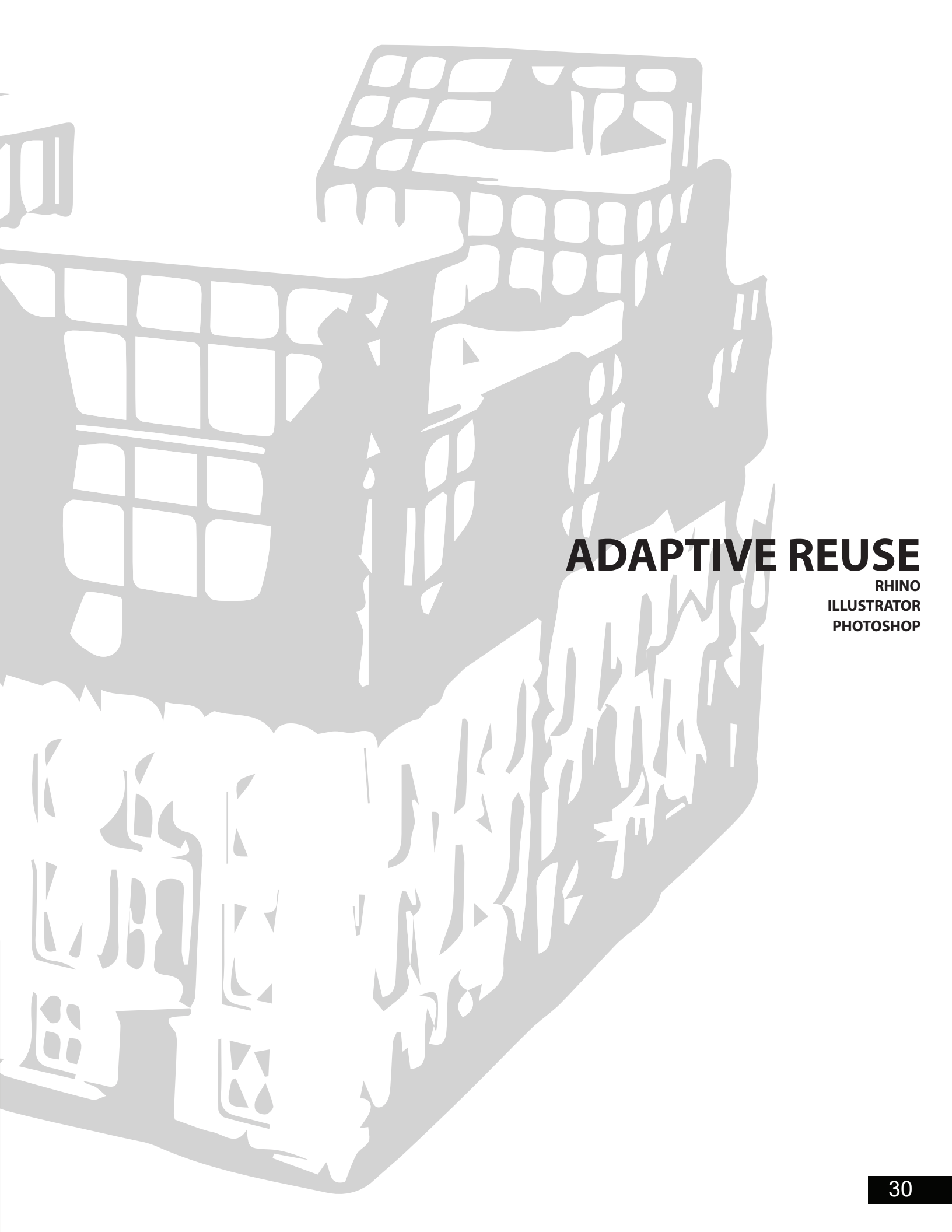


5 FRONT ELEVATION  
3" = 1'-0"

ARCH3512 - ARCHITECTURAL DESIGN V  
PROFESSOR ARFAEI  
FALL 2020

THIS PROJECT CONSISTED OF INTENSIVE RESEARCH  
WHICH LEAD TO CREATE A HOSTEL WITHIN AN  
EXISTING BUILDING. A PROCESS OF REPURPOSING  
AN OLD BUILDING INTO NEW MODERN PURPOSE.





# ADAPTIVE REUSE

RHINO  
ILLUSTRATOR  
PHOTOSHOP

COMMUNAL KITCHEN

THE HOSTEL PROJECT ON ROOSEVELT ISLAND STARTED OFF WITH INTENSIVE ANALYSIS. GATHERING DEMOGRAPHICAL INFO AND CREATING COLLAGES BASED ON WHAT WAS SEEN ON SITE. WE PROCEEDED WITH PROGRAM DIAGRAMS WHICH LEAD TO MASSING CONCEPTS. THE MAIN IDEA WAS TO BUILD WITHIN AN EXISTING BUILDING SHELL. A STRATEGY KNOWN AS ADAPTIVE REUSE. AFTER ALL MY SITE ANALYSIS I DECIDED TO ADOPT A COMMUNAL KITCHEN THEME FOR MY HOSTEL. A PLACE WHERE USERS AND THE PUBLIC CAN MEET IN A COMMON AREA.



	ADDITIONAL INFO	QUANTITY	FOOTAGE	TYPE OF FURNITURE	USE OF SPACE
DOUBLE HEIGHT	✓	1	1000	DESK, CHAIRS, PLANTS	RECEPTION, WAITING LOBBY
OPEN	✓	2	2000	MINIMAL LIGHT	SOCIALIZING, DRINKING LOBBY BAR/CAFE
OPEN OUT/IN DOOR	✓	2	1500	TABLES, CHAIRS, BENCHES	EATING, SOCIALIZING RETAIL/RESTAURANT
EASY ACCESSIBLE	✓	2	80	WATER CLOSET, SINK	PUBLIC RESTROOM PUBLIC RESTROOM LOBBY LVL
	✓	1	600	FITNESS EQUIP.	RECREATIONAL FITNESS CENTER
	✓	1	500	OFFICE UTENSILS	BACK OFFICE ADMINISTRATIVE SUITE
	✓	1	500	SHELVES	STORAGE, ESSENTIALS STORAGE RM/HOUSE KEEPING
	✓	1	500	SHELVES	STORAGE STORAGE RM/ GENERAL
EASY ACCESSIBLE	✓	3	500	TABLE, CHAIRS, MACHINES	WASHING CLOTHES LAUNDRY ROOM
	✓	4	300	RECYCLE BINS	DISPOSE GARBAGE TRASH ROOM
	✓	4	40	SHELVES, SINK	CLEANING UTENSILS JANITOR ROOM
COMPACT	✓	30	300+	BEDS, LOCKERS	SLEEPING SLEEPING DORMS
BIG CROWDS, OPEN, SPACIOUS	✓	1	600	TYP FURNITURE	GROUP EATING KITCHEN/DINING ROOM
OPEN, BIG WINDOWS, FRESH AIR	✓	1	500	SOFA, TABLES, COMPUTERS	READING, QUIET SPACE QUIET STUDY PLACE
SPACIOUS, COMFY	✓	2	1000	COMFORTABLE CHAIRS	GROUP GATHERING LOUNGE/RESTING AREA
BIG CROWDS, NOISY	✓	1	500	POOL TABLE, TV	GAME ROOM GAME ROOM
COMMON AREA	✓	3	1500	PLANTS TABLES	GROUP GATHERINGS OUTSIDE ACCESS/ROOFTOP
PRIVATE	✓	∞	100		GET FRESH AIR BALCONY

● - MUST    ● - SHOULD    ● - WOULD BE NICE    ● - NOT RELATED

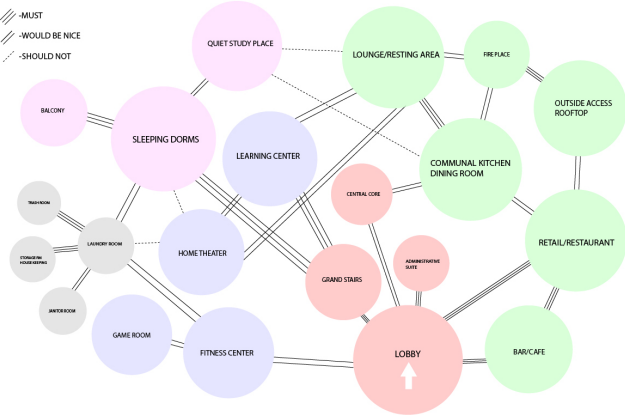
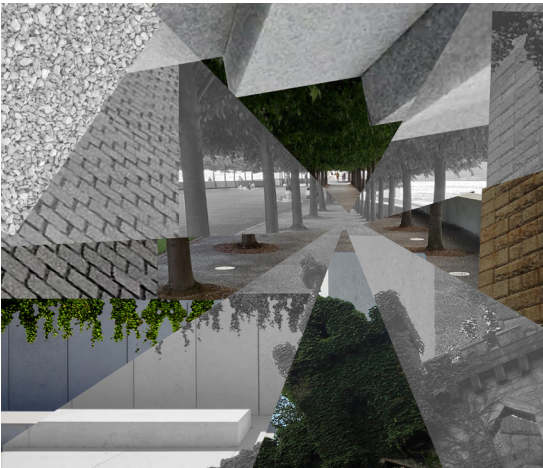
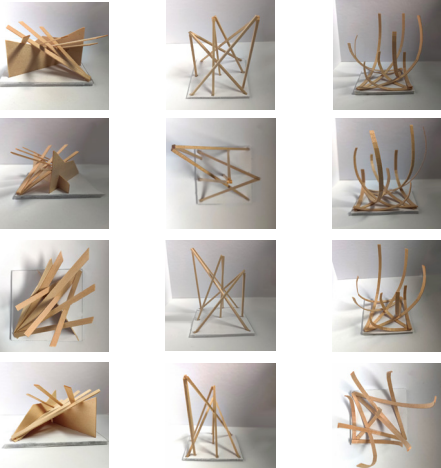
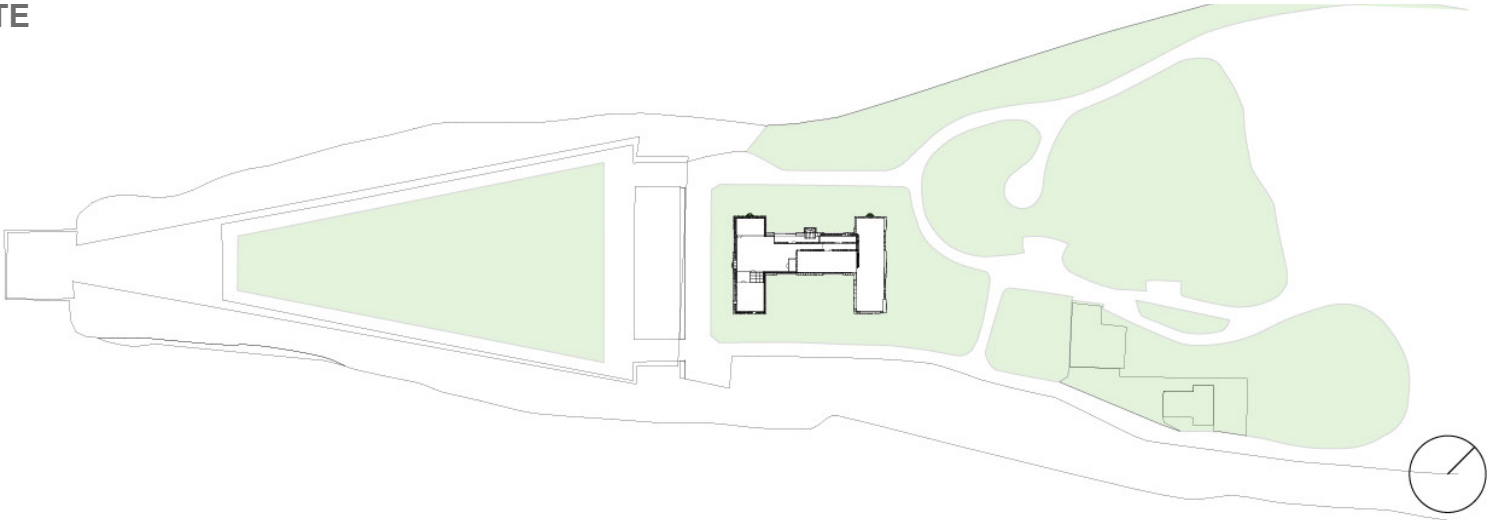


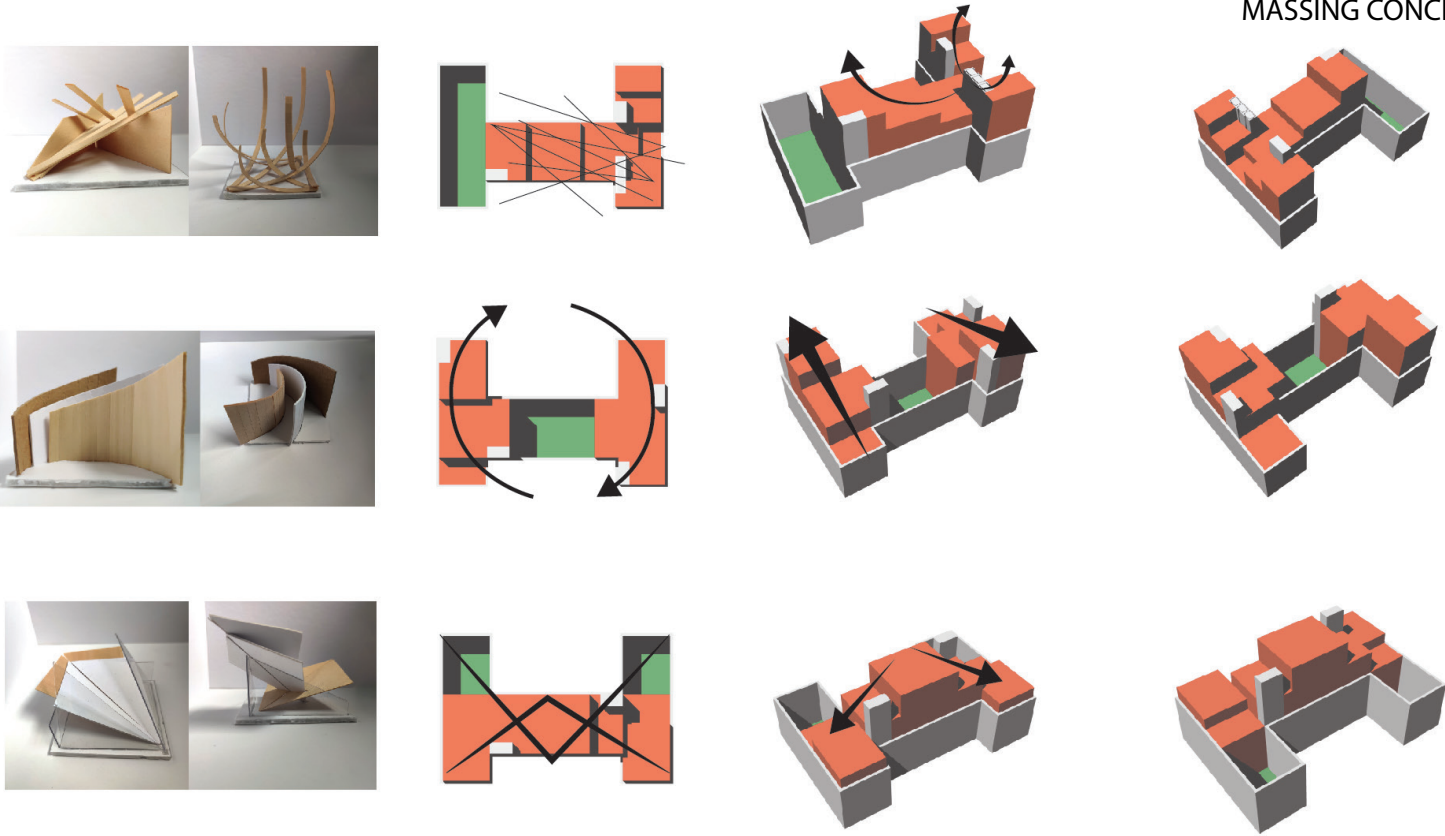
PHOTO COLLAGE



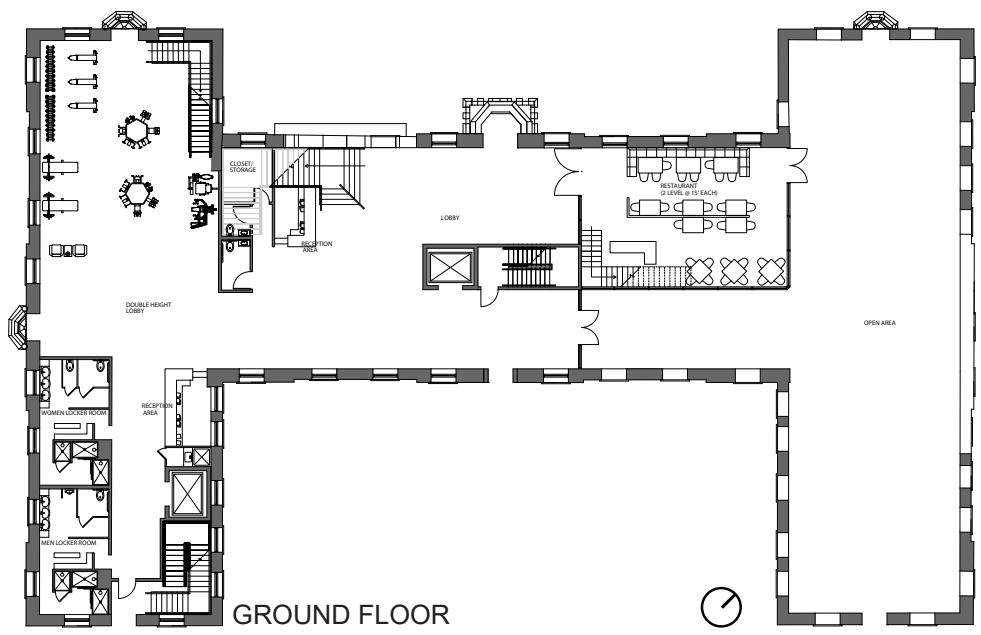
SITE



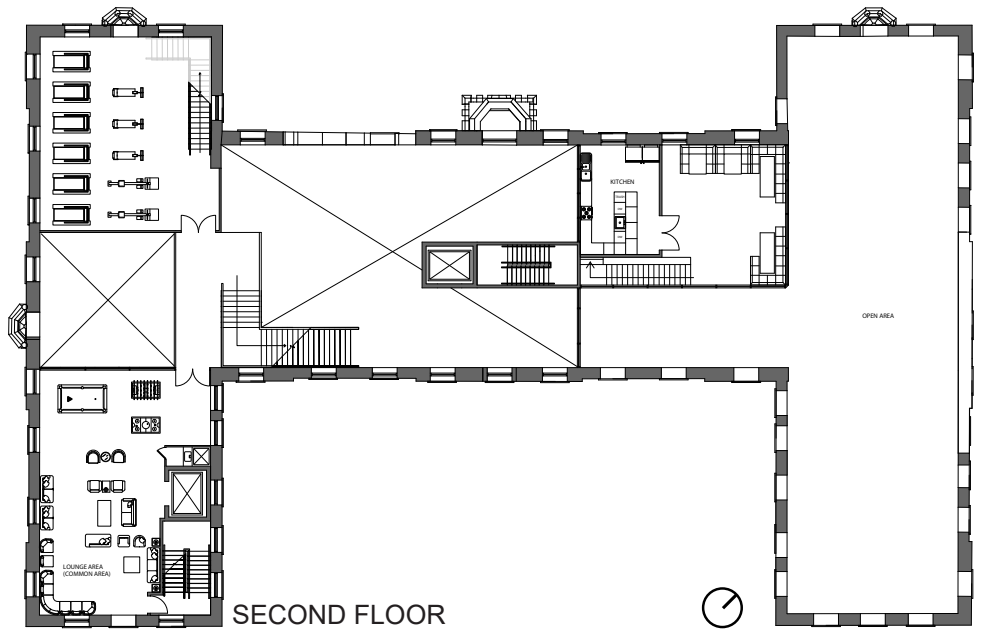
MASSING CONCEPTS



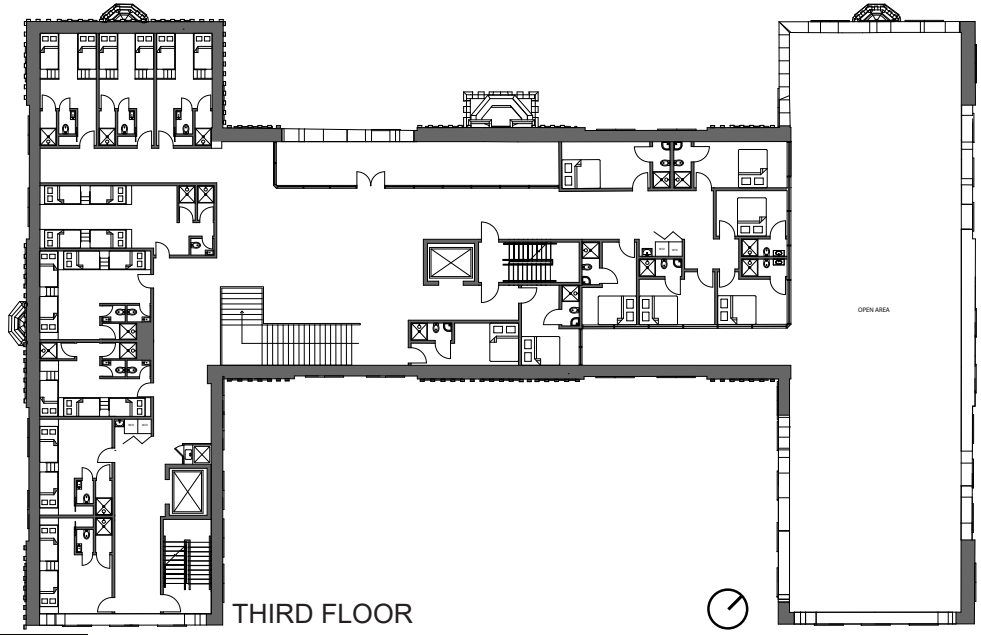




GROUND FLOOR



SECOND FLOOR



THIRD FLOOR

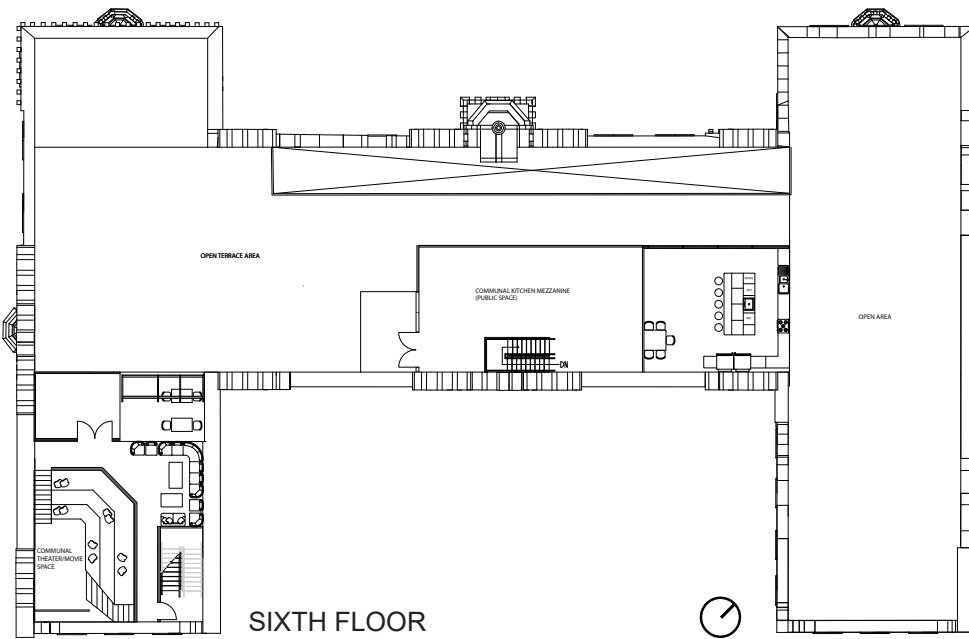
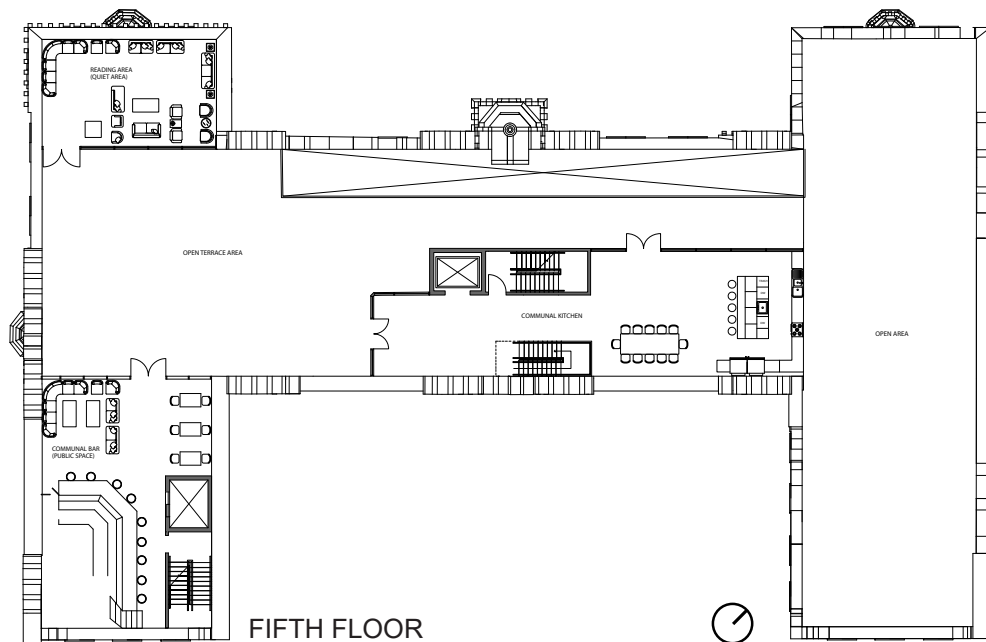
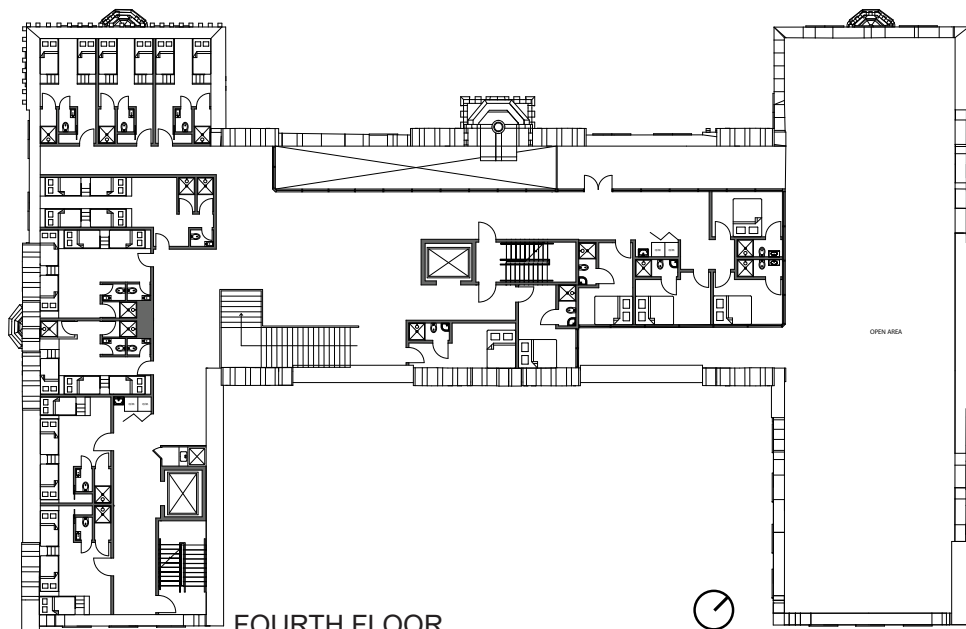
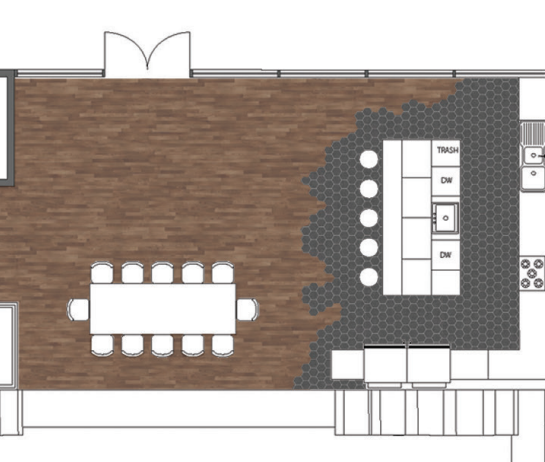


TYP. BEDROOM



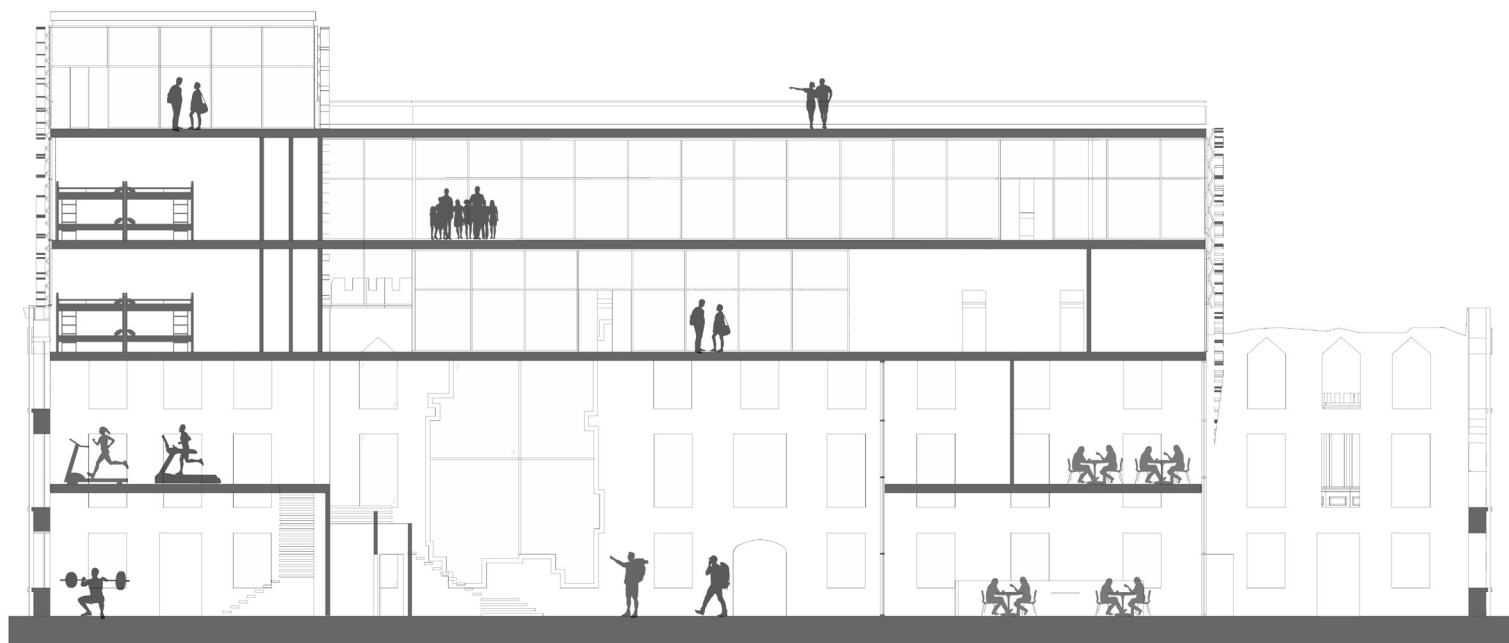
COMMUNAL KITCHEN



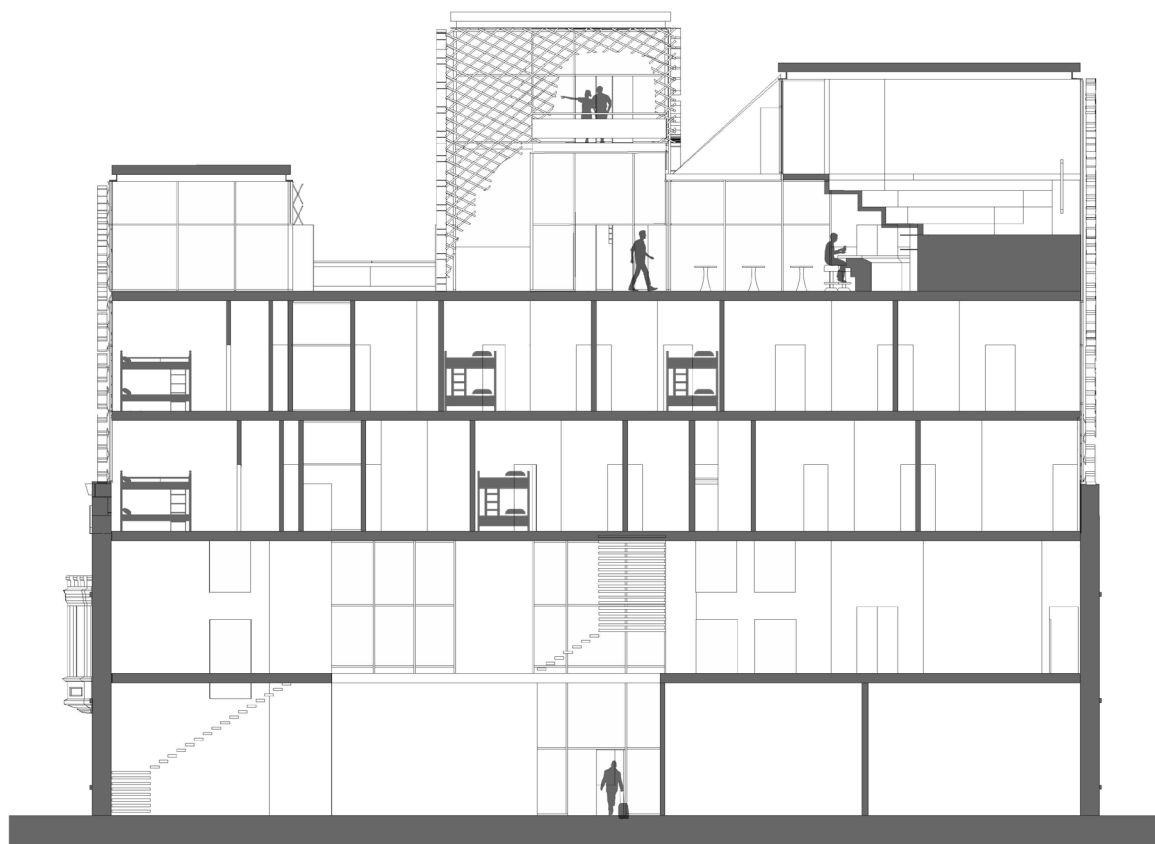




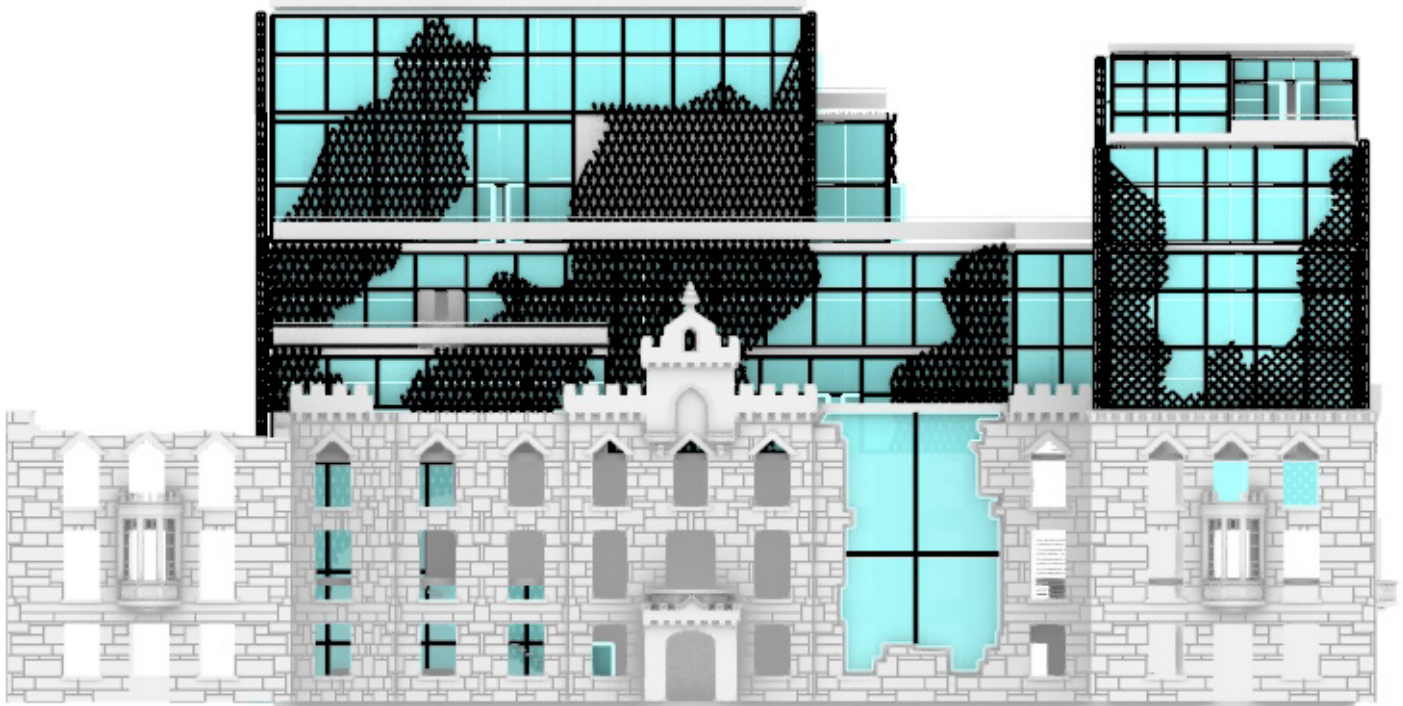
SECTION  
LONG SECTION



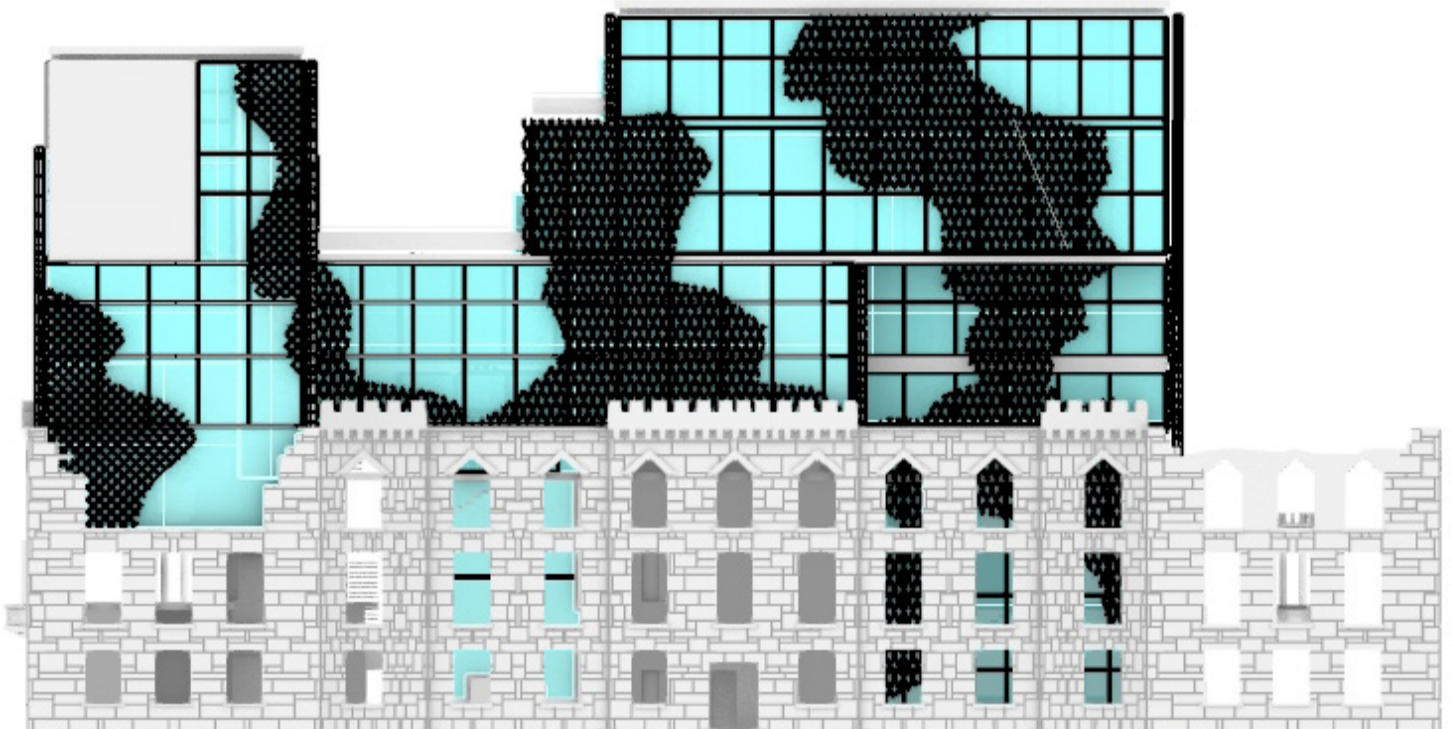
SECTION  
SHORT SECTION



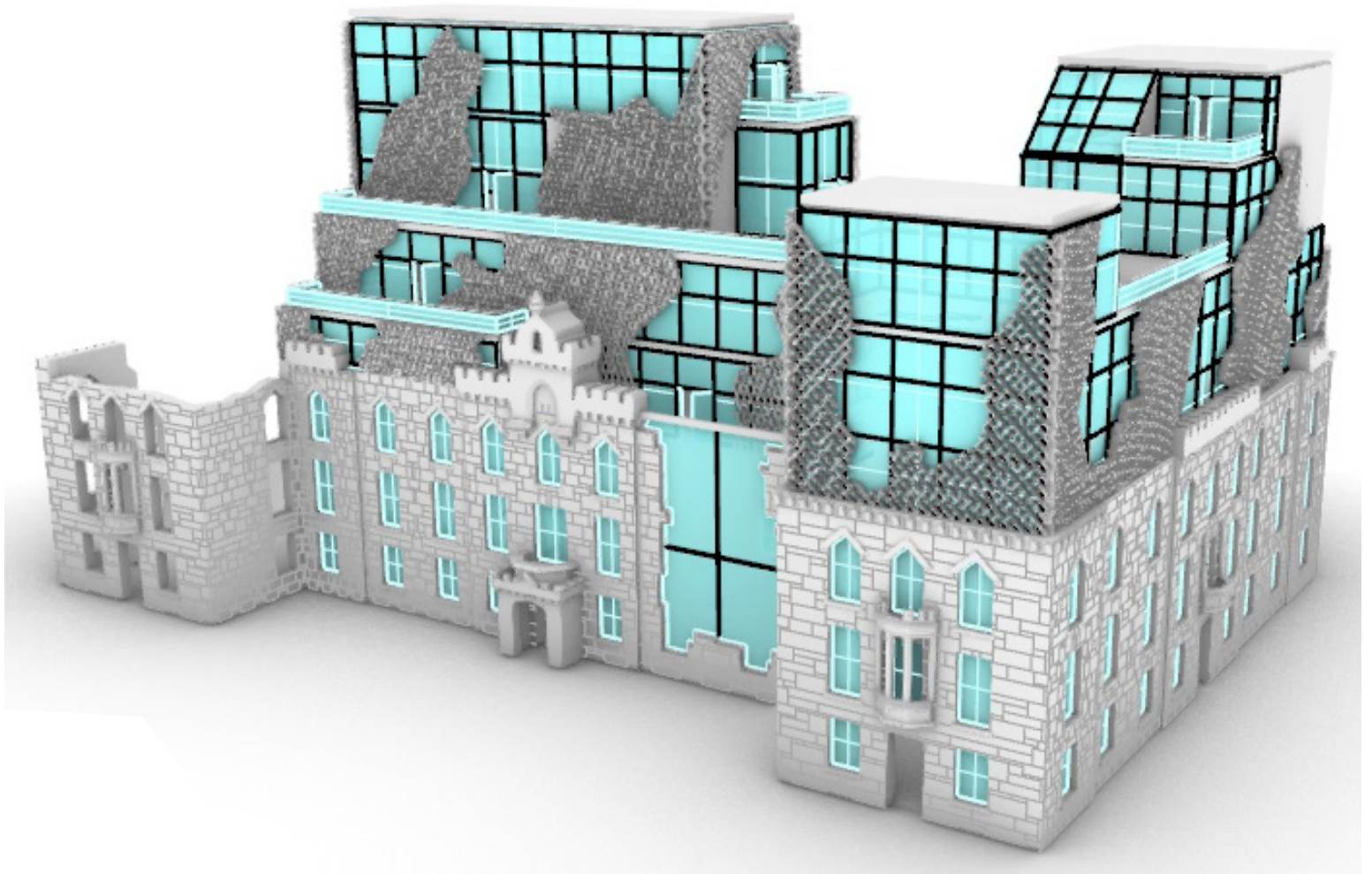
FRONT ELEVATION



REAR ELEVATION

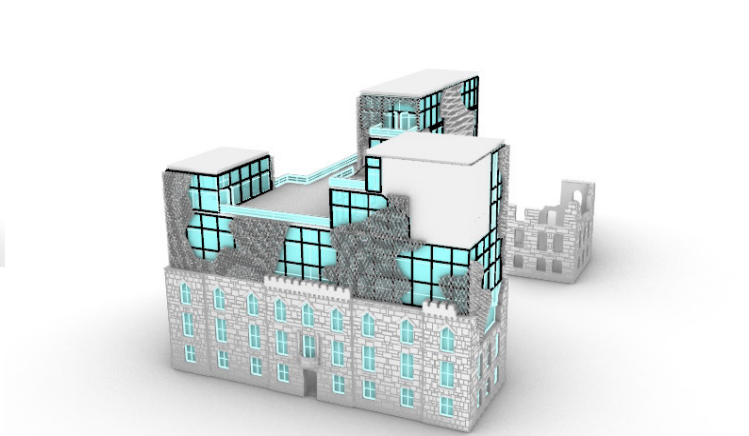
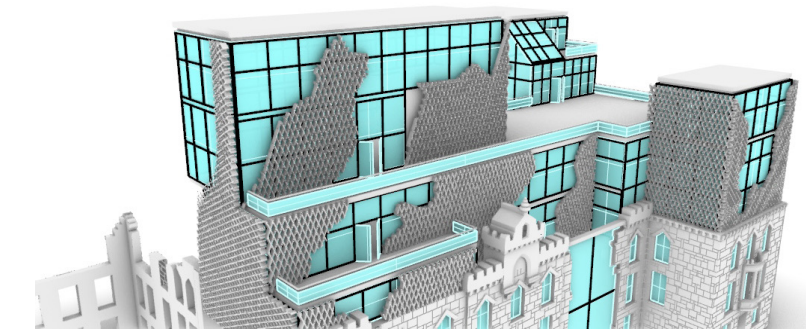
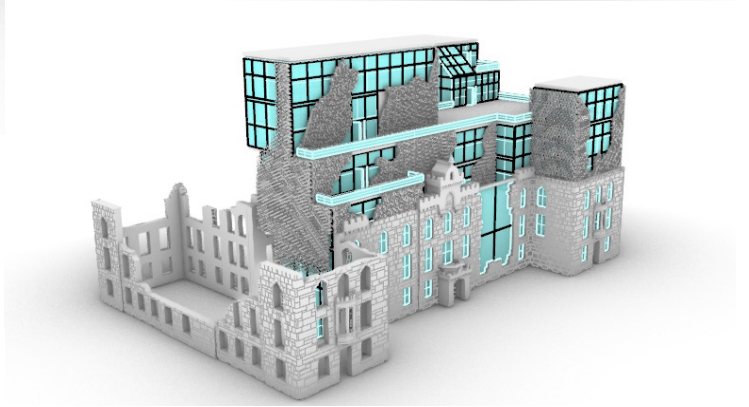
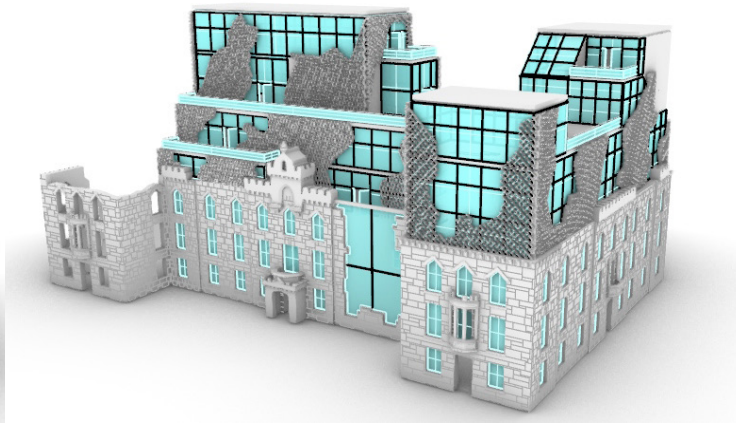
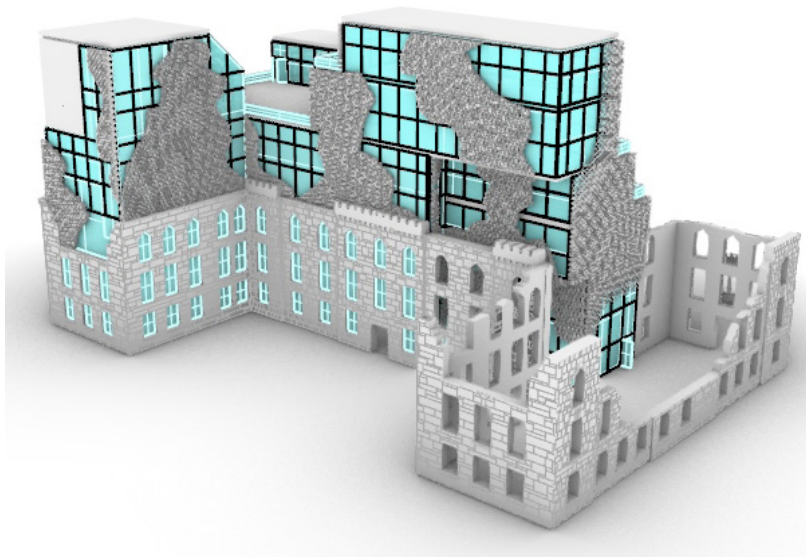


# RENDERINGS



INTERIOR PUBLIC SPACE





ARCH4812 - ARCHITECTURAL DESIGN VIII  
PROFESSOR NEARY & PROFESSOR GLASSMAN  
FALL 2021

THE PURPOSE OF THIS PROJECT WAS TO EXPLORE  
THE POTENTIAL ROLE OF THE FACADE IN  
OPTIMIZING DAYLIGHTING FOR USER COMFORT  
AND ENERGY DEMAND REDUCTION.





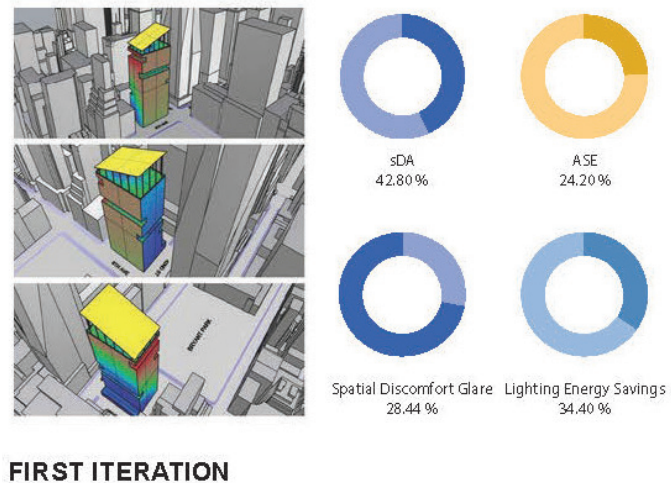
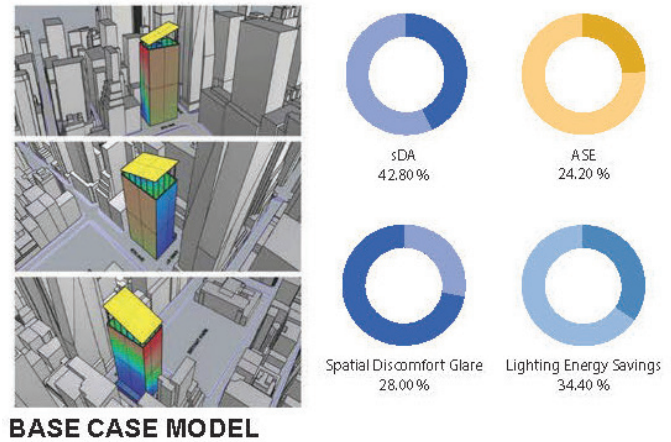
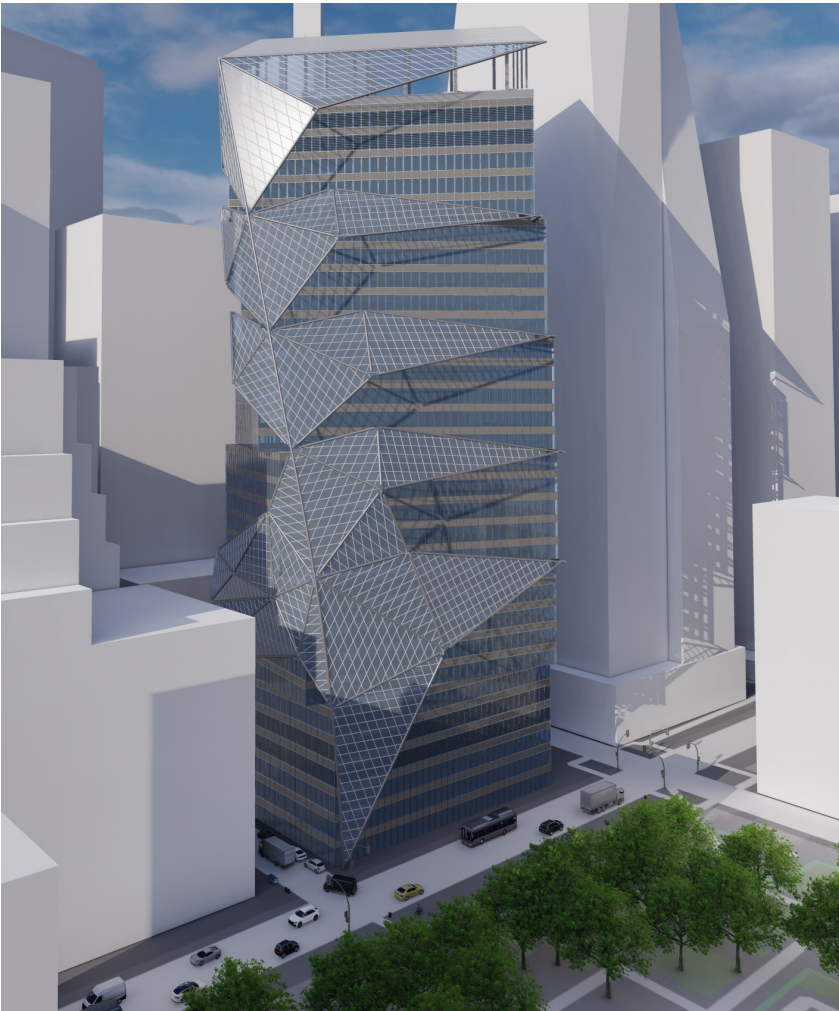
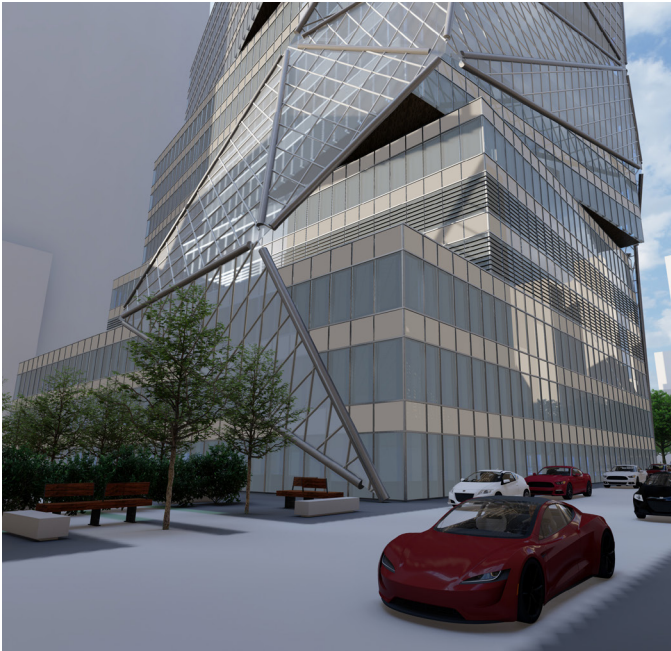
# NET ZERO TOWER FACADE

RHINO  
ILLUSTRATOR  
LUMION



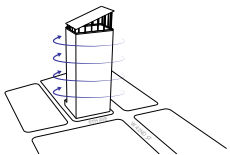
# NET ZERO TOWER FACADE

THE PURPOSE OF THIS PROJECT IS TO INVESTIGATE THE POTENTIAL ROLE OF THE FACADE IN OPTIMIZING DAYLIGHTING FOR USER COMFORT AND ENERGY DEMAND REDUCTION RELATIVE TO A CONVENTIONAL BASELINE BUILDING IN THE DESIGN OF NET-ZERO HIGH-RISE COMMERCIAL BUILDING FOR A SITE IN MANHATTAN. WE WERE FOCUSED ON UNDERSTANDING HOW CURTAIN WALL SYSTEMS PERFORM AND HOW THEY CAN BE IMPROVED. IN ADDITION TO SEEKING WAYS TO IMPROVE PASSIVE PERFORMANCE, WE WILL INVESTIGATE THE USE OF AUTOMATIC SHADING AND PHOTOVOLTAIC GLASS IN THE FACADE AND ON THE ROOFTOP ARRAYS FOR ON-SITE ENERGY PRODUCTION AS WELL.

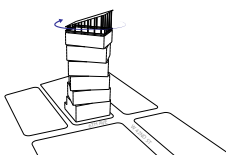




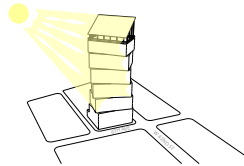
# DESIGN CONCEPT



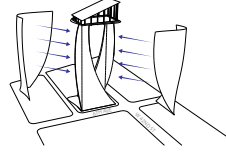
ROTATE SECTIONS OF MASSING TO A TOTAL OF 45 DEGREES TO FACE TRUE SOUTH AND MAXIMIZE ON SOLAR RADIATION EXPOSURE.



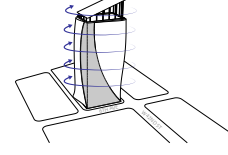
ROTATE PV HAT 45 DEGREES TO FACE TRUE SOUTH AND MAXIMIZE SOLAR RADIATION EXPOSURE.



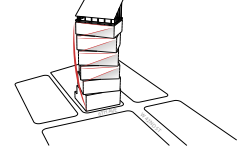
BASED ON SOLAR RADIATION STUDY FACES ON 6TH AVE & W 41ST STREET WERE EXPOSED TO THE MOST SOLAR RADIATION YEAR ROUND



SECOND LAYER 'EXO-SKELETON' FACADE CONCEPT THAT WOULD REDUCE SOLAR RADIATION HEAT GAIN ON ACTUAL BUILDING MASSING

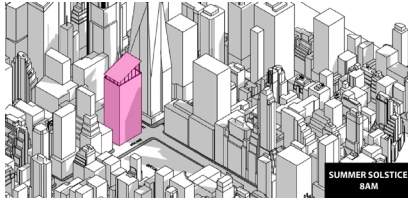


SAME CONCEPT TO ROTATE MASSING TO FACE TRUE SOUTH WITH EXTERIOR CORING SHIFTED AS WELL

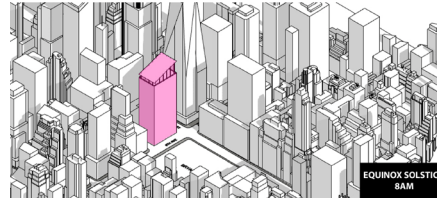
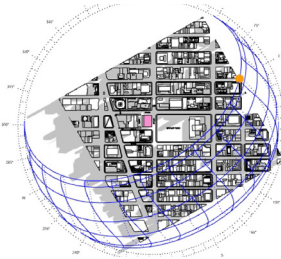


RE-DESIGNED 'EXO-SKELETON' TO MAXIMIZE FUNCTIONALITY AND REDUCE SOLAR EXPOSURE AND HEAT GAIN TO ACTUAL MASSING

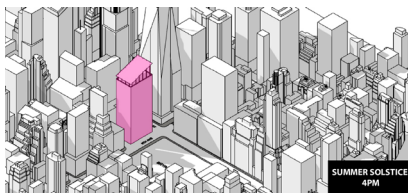
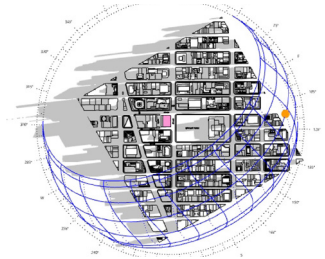
## SUN STUDY & SOLAR RADIATION STUDY



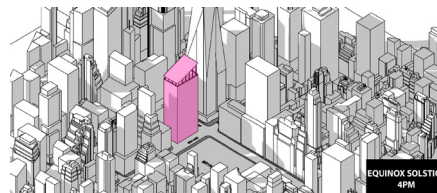
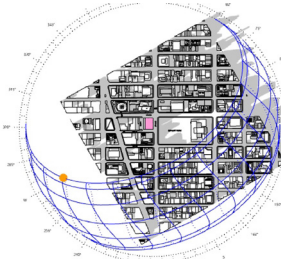
SUMMER SOLSTICE 8AM



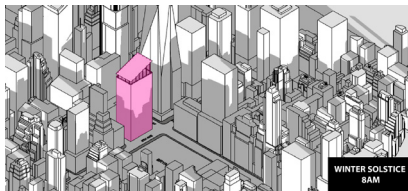
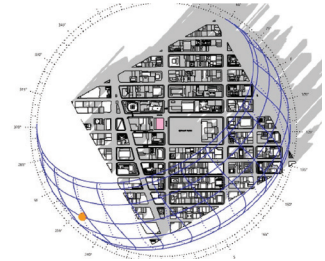
EQUINOX SOLSTICE 8AM



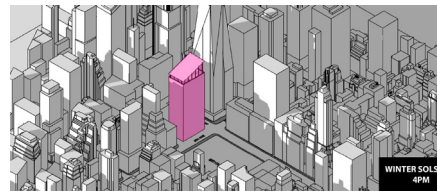
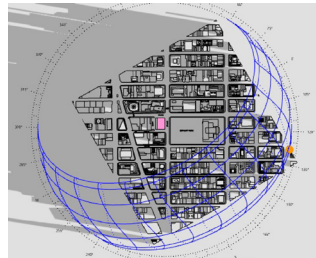
SUMMER SOLSTICE 4PM



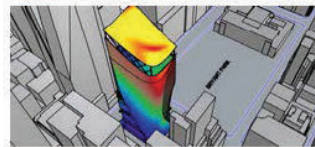
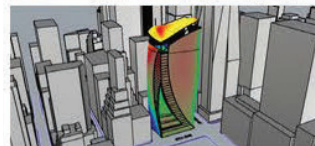
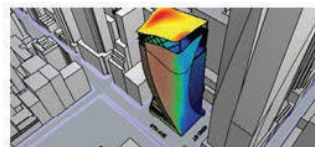
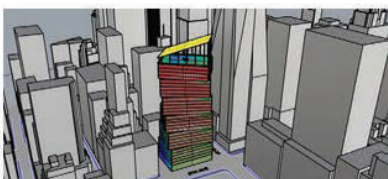
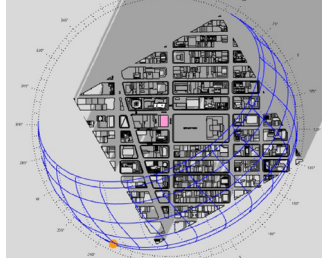
EQUINOX SOLSTICE 4PM



WINTER SOLSTICE 8AM



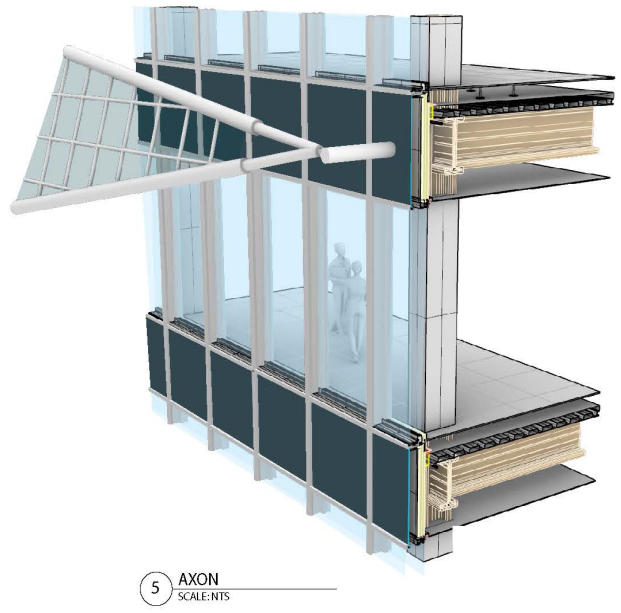
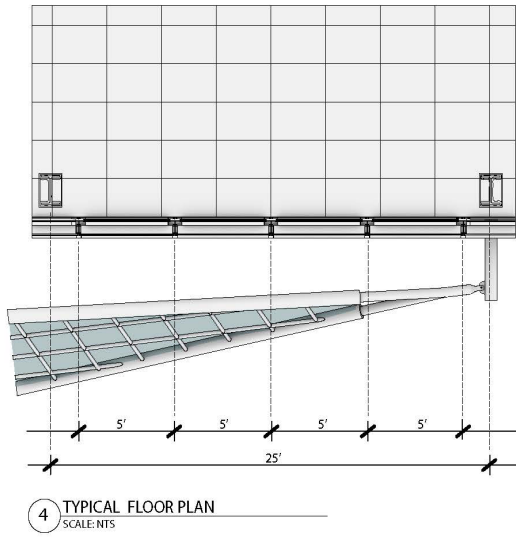
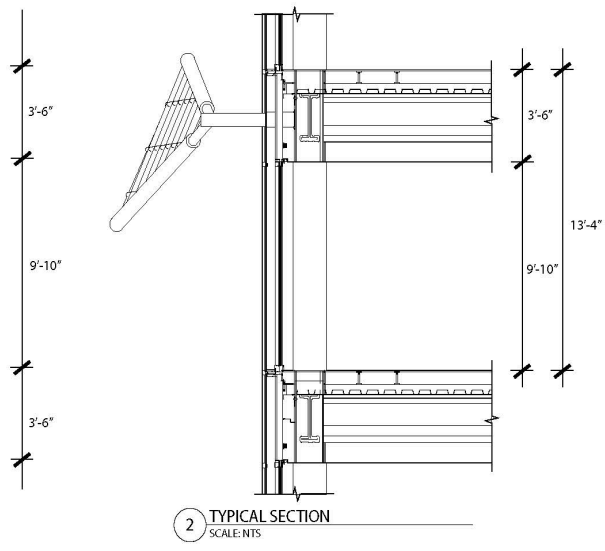
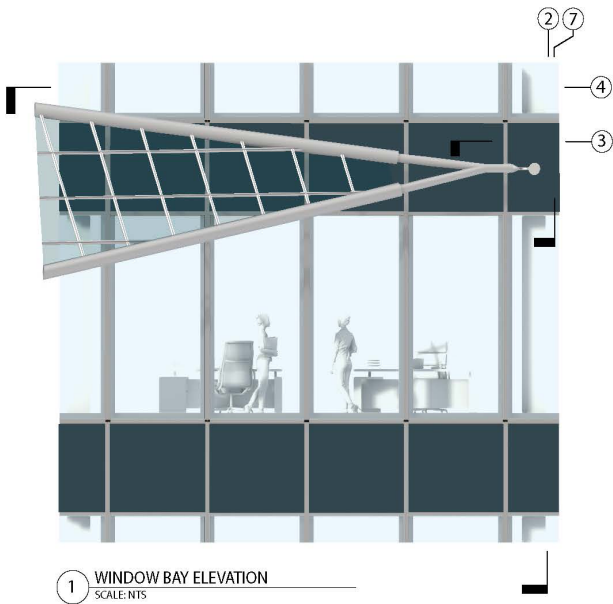
WINTER SOLSTICE 4PM



### SECOND ITERATION

### THIRD ITERATION

# WINDOW BAY STUDY

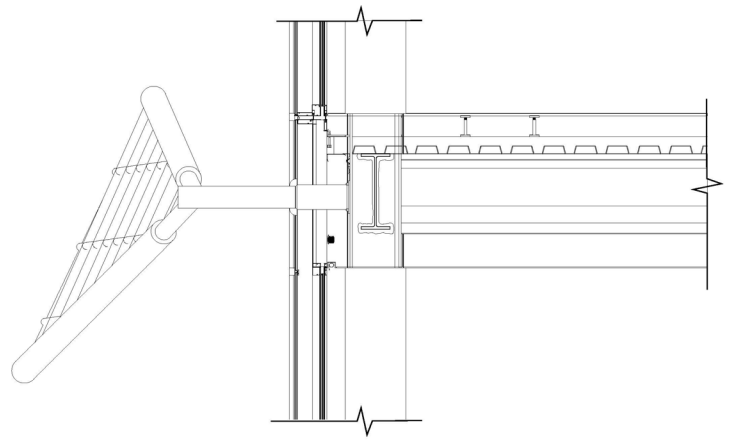
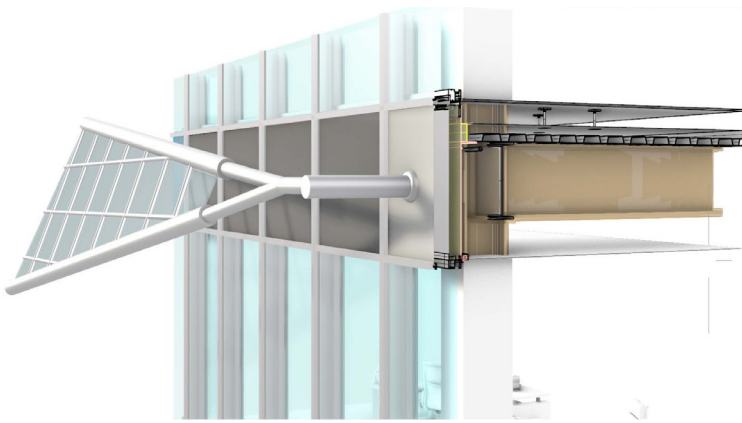


SPRING EQUINOX @ 4PM

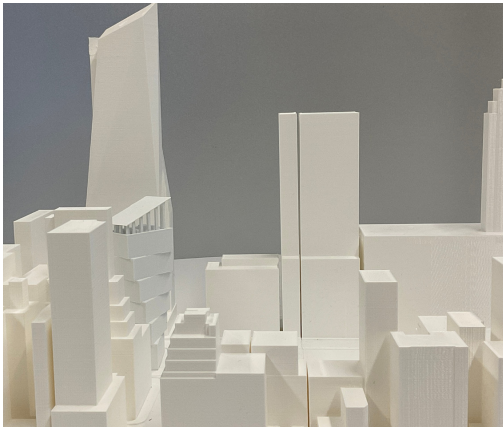
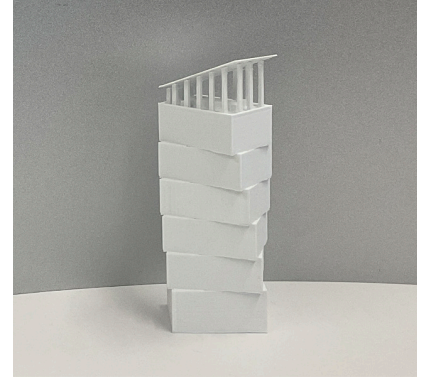
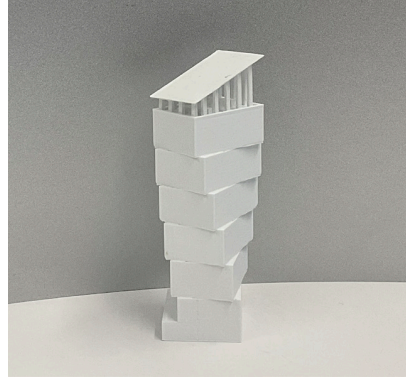
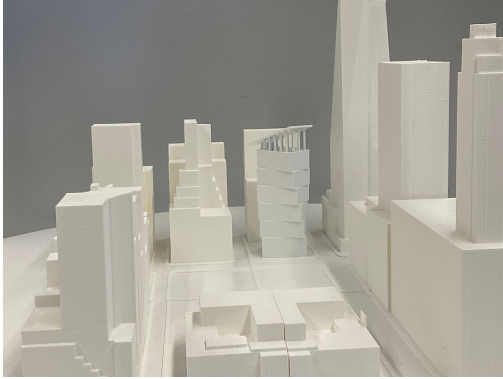
SUMMER SOLSTICE @ 4PM

## INTERIOR SUN ANALYSIS





## 3D PRINTED STUDY MODELS



FALL EQUINOX @ 4PM



WINTER SOLSTICE @ 4PM



# RENDERINGS









ARCH4712 - ARCHITECTURAL DESIGN VII  
PROFESSOR VESSELIN MILEV  
SPRING 2022

THIS PROJECT EXPLORED THE THEORETICAL &  
PRAGMATIC ASPECTS OF DESIGN APPLIED TO  
URBAN ENVIRONMENT.



# SUNSET PARK URBAN PLAN

RHINO  
ILLUSTRATOR  
PHOTOSHOP

# SUNSET PARK WATER FRONT

THIS PROJECT CONSISTING OF TWO PHASES LET US TO ANALYZE THE NEIGHBORHOOD OF SUNSET PARK AND TO FULLY UNDERSTAND WHAT IT TAKES TO SUCCESSFULLY PROPOSE A MASTER PLAN FOR THE SUNSET PARK WATER FRONT.

FIRST PHASE (SITE B) WAS TO ATTRACT TRAFFIC TO TRAVEL DOWN 43RD ST STARTING AT SUNSET PARK ENTRANCE TOWARDS NW TO THE WATER FRONT WHICH WE HAD TO PROPOSE A MASTER PLAN FOR THE WATER FRONT.

FOR THE SECOND PHASE (SITE A & C) WE HAD TO IMPLEMENT PROGRAM AND A PLAZA WHICH WOULD BE HIGHER THAN SEA LEVEL TO ALSO HAVE A SECOND FUCTION IF WATER LEVELS EVER ROSE TOO HIGH.



FIGURE GROUND OF SUNSET PARK

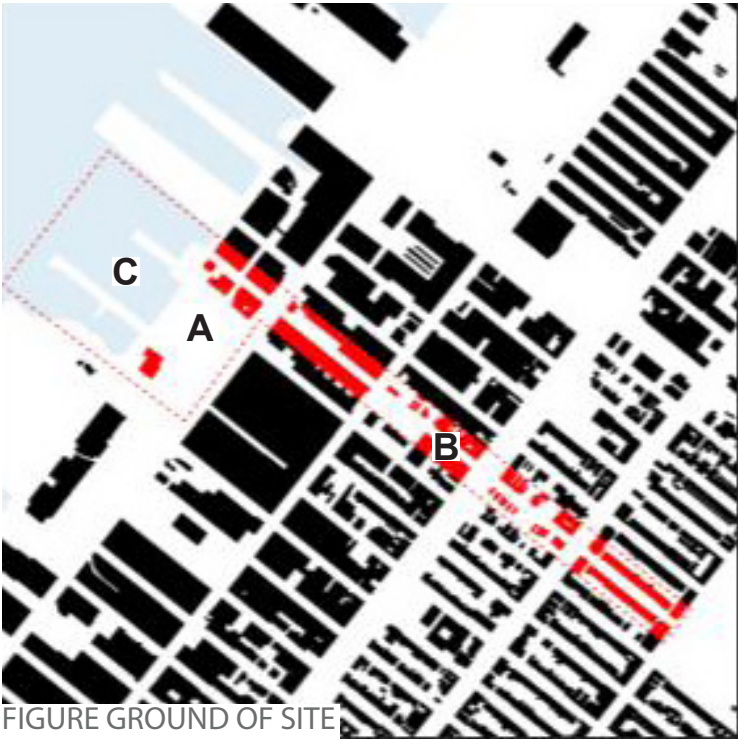
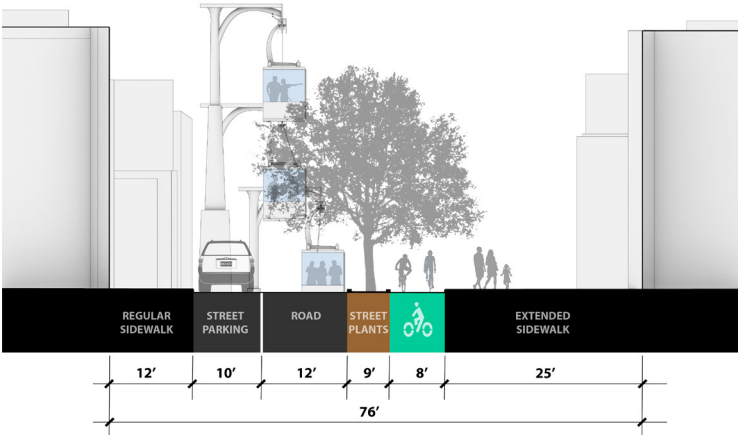


FIGURE GROUND OF SITE





THREE TRAIN LINE CONNECTING THE SITE  
FROM MANHATTAN TO LOWER BROOKLYN

WALKING DISTANCES FROM SITE B  
AT SUN SET PARK ENTRANCE

SECOND PART OF PROJECT SITE

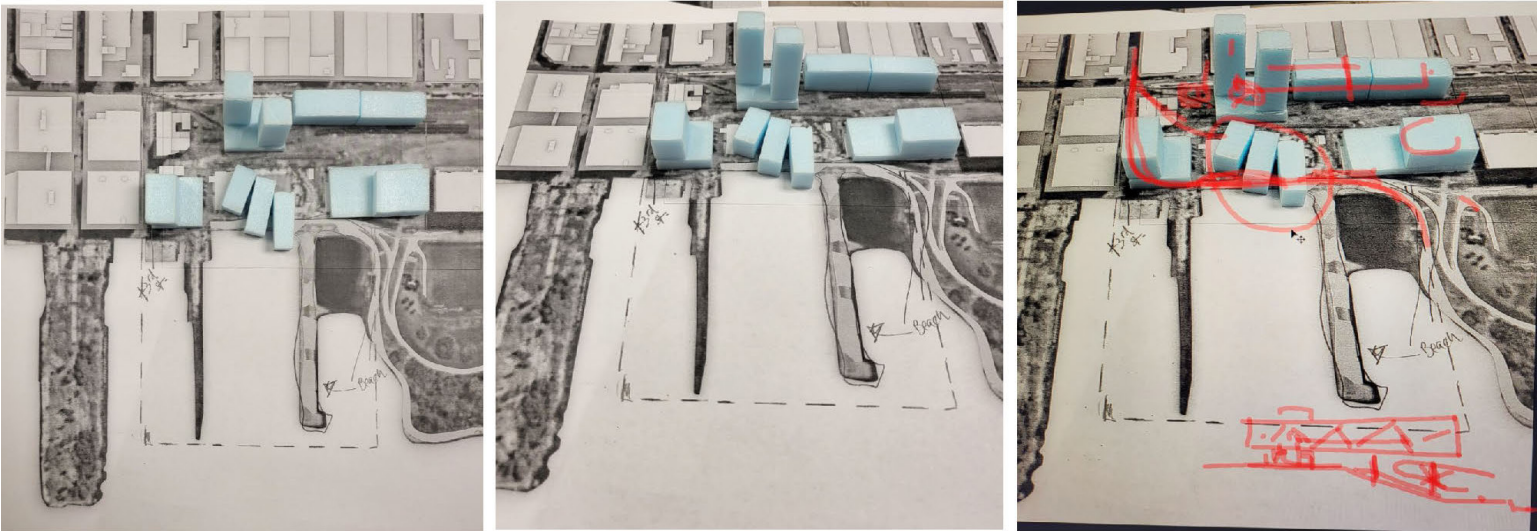
A FEW BUS ROUTES RUNNING  
NEAR PROJECT SITE

BELT PARKWAY – HIGHWAY  
PARALLEL & ABOVE 3RD AVE

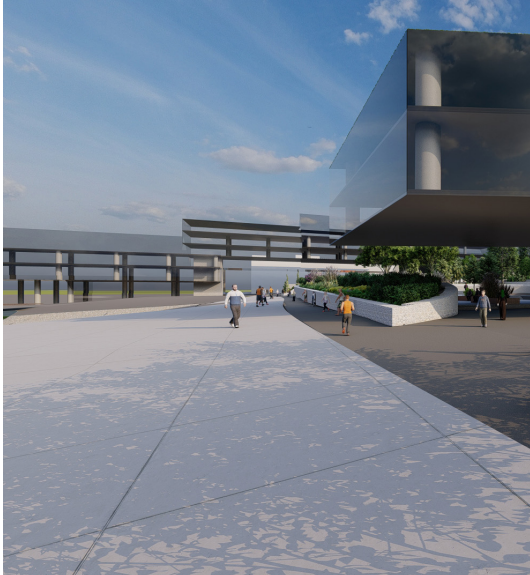
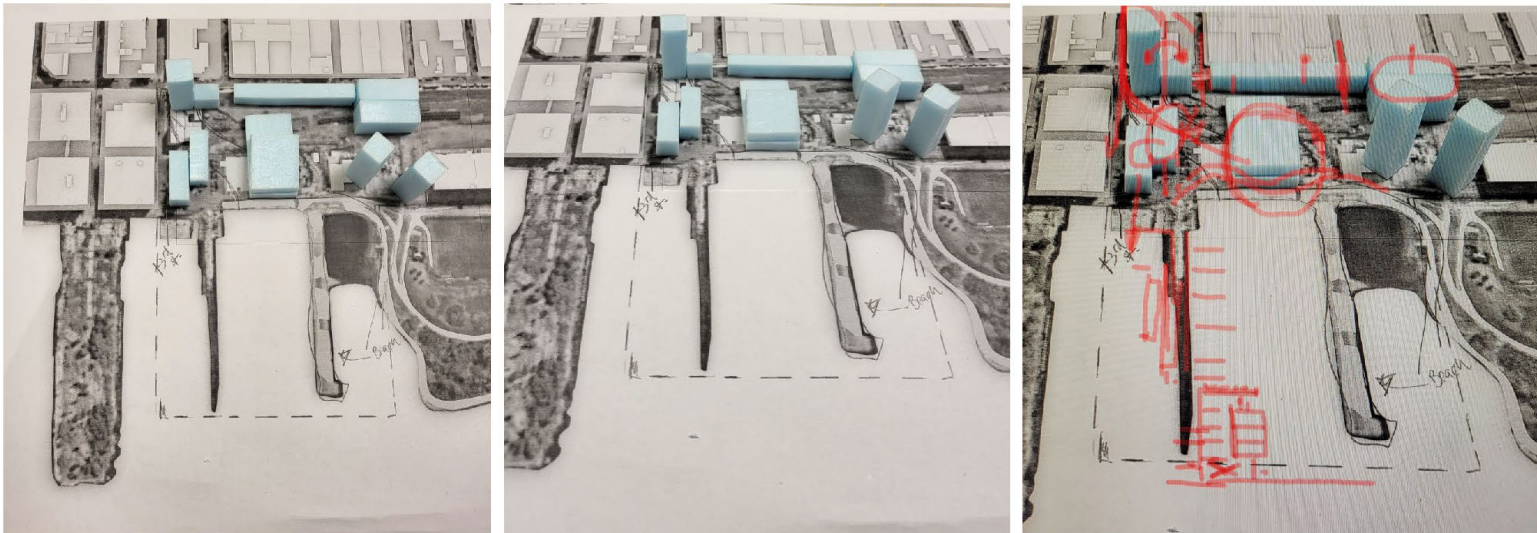




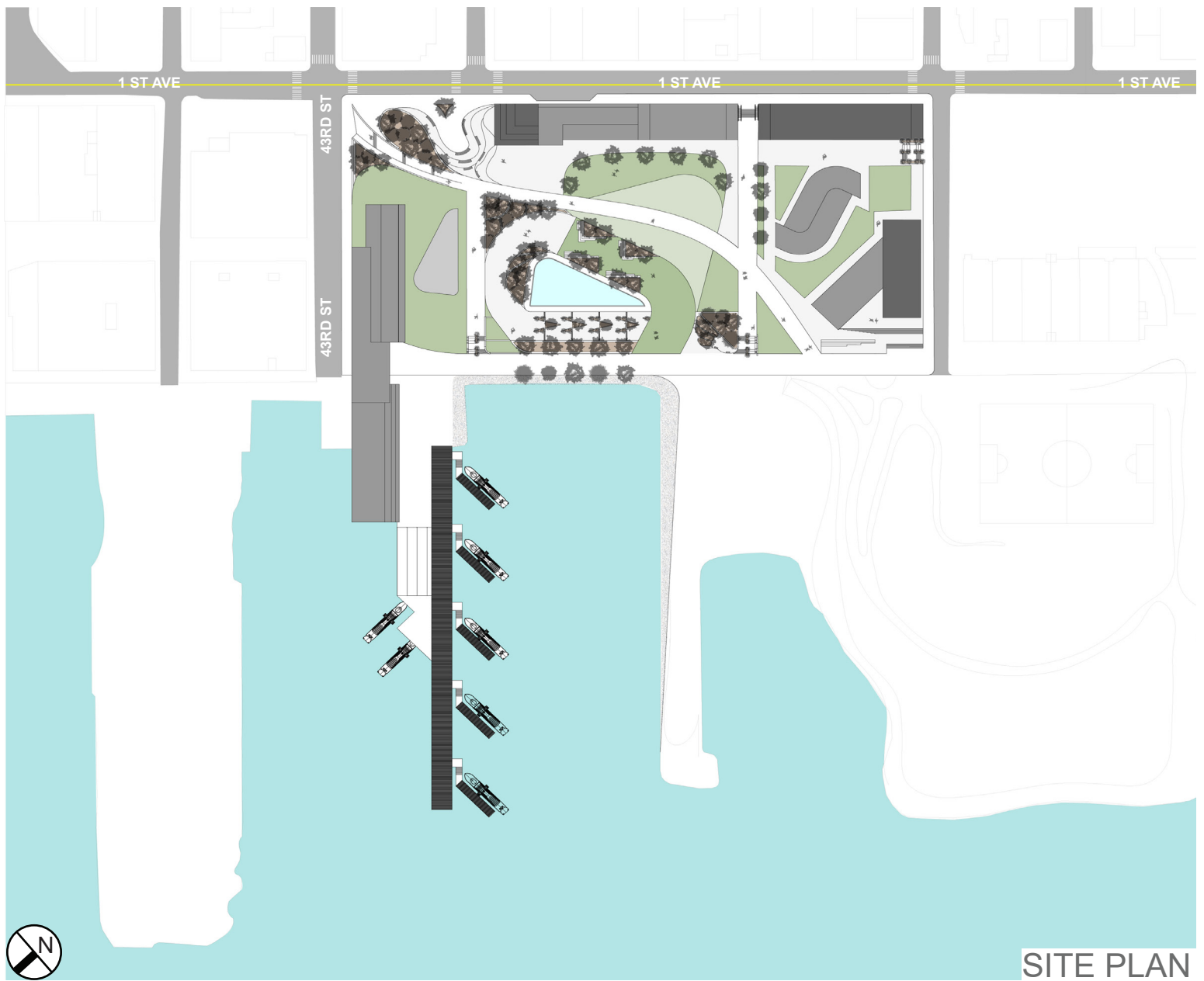
MASSING PLACEMENT1 - GENERRAL MASSING MODELS CUT TO SCALE TO GET A BETTER SENSE OF SCALE FOR OUR SITE



MASSING PLACEMENT 2



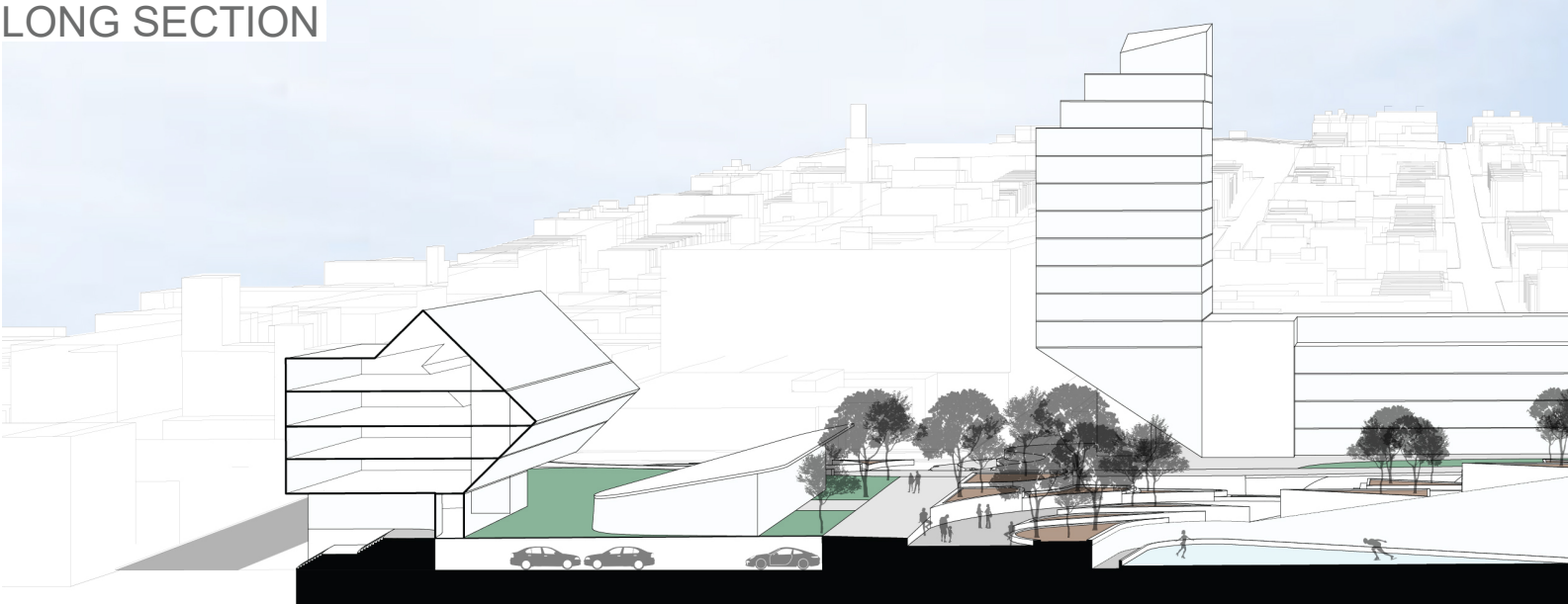




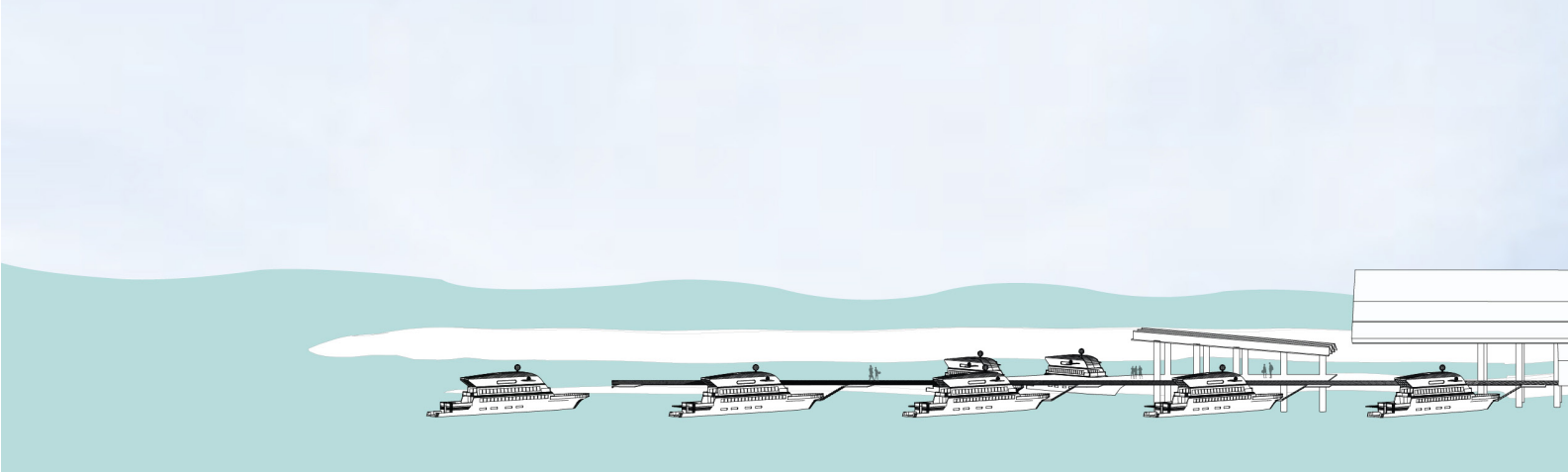
SITE FLOOR PLAN



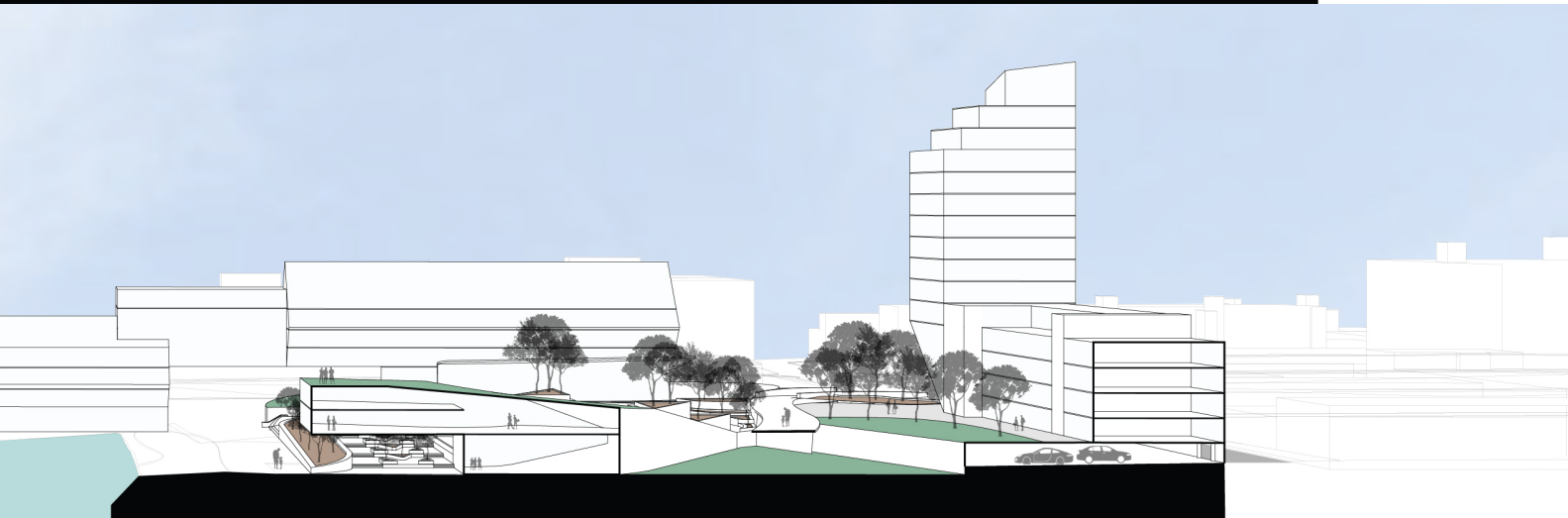
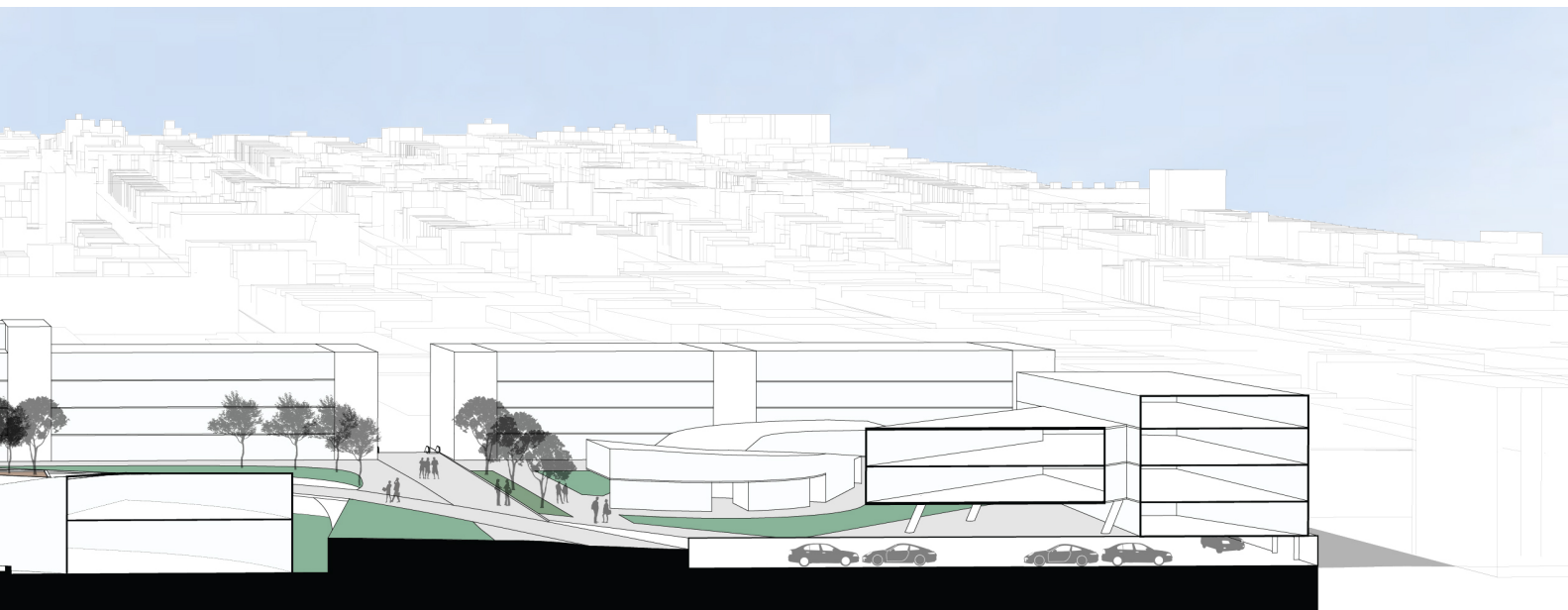
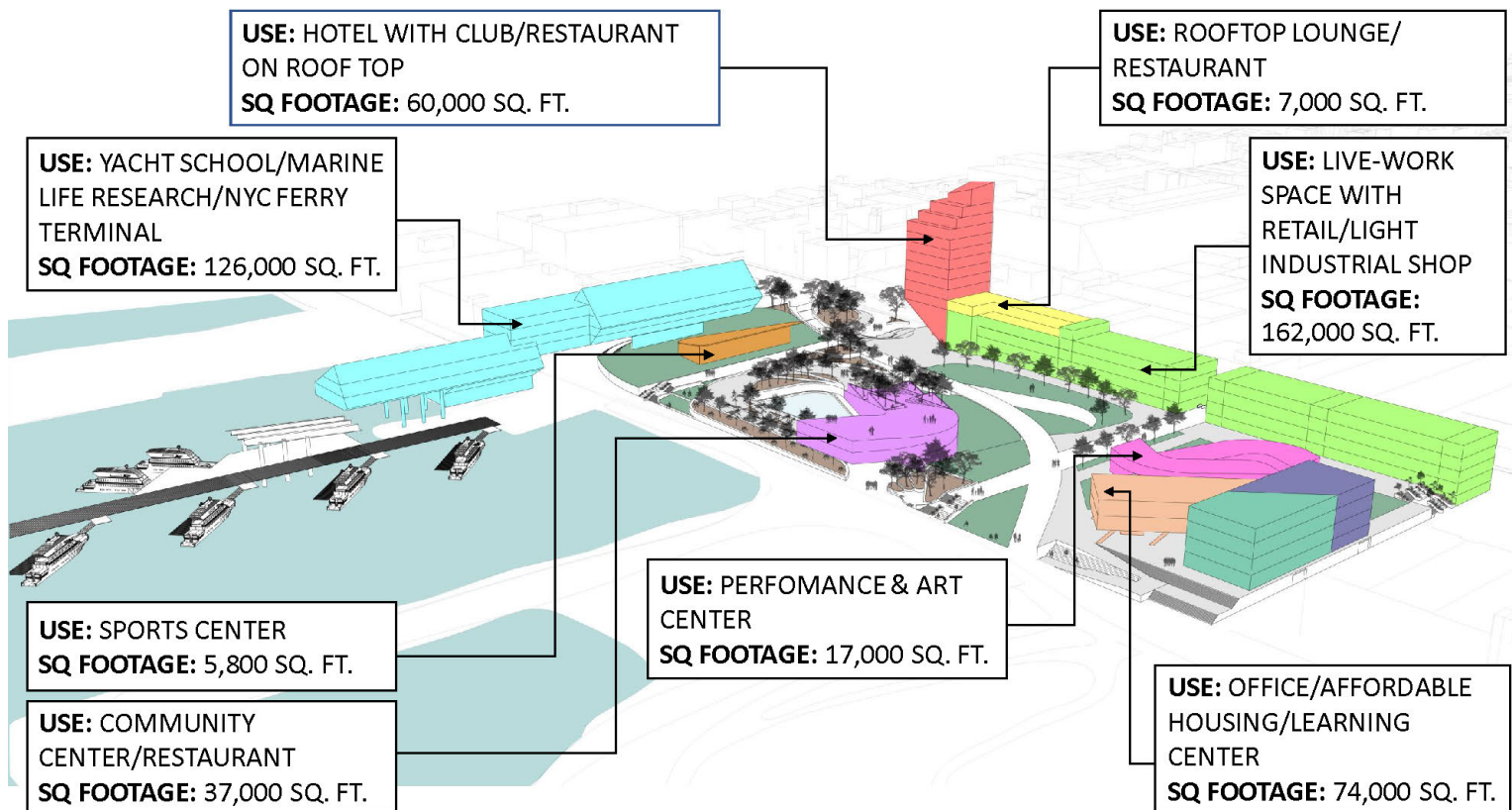
LONG SECTION



SHORT SECTION





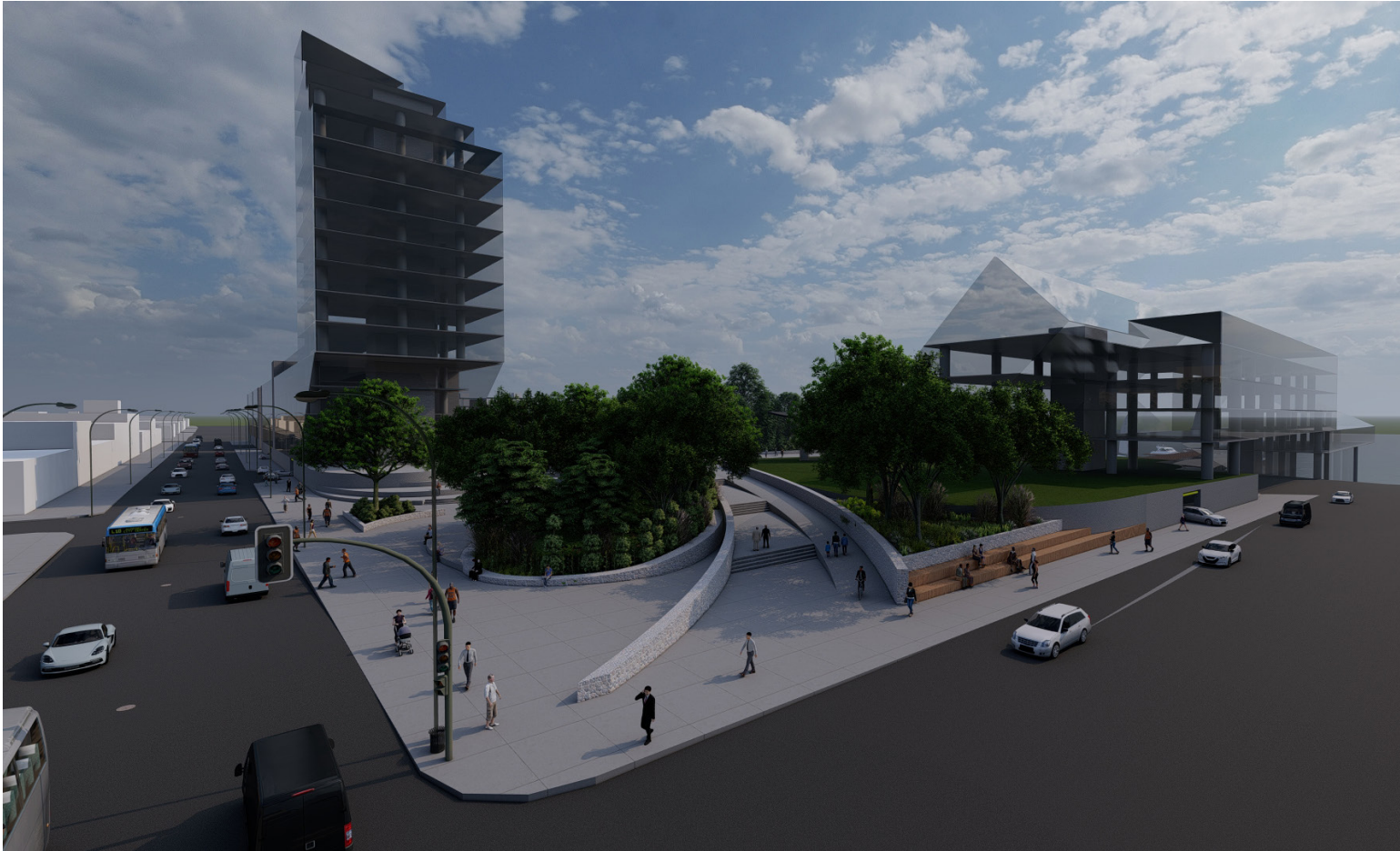




SITE RENDERINGS







ARCH4709 - ADVANCED 3D MODELING AND RENDERING  
PROFESSOR BEITA  
FALL 2021

CREATED CUSTOM MATERIALS IN 3DS MAX AND APPLIED THEM TO  
THE AZUMA HOUSE BY TADAO ANDO & THE BARCELONA PAVILION  
BY MIES VAN DER ROHE. USED THE BARCELONA PAVILION MODEL IN  
LUMION TO EXPLORE A DIFFERENT RENDERING SOFTWARE.

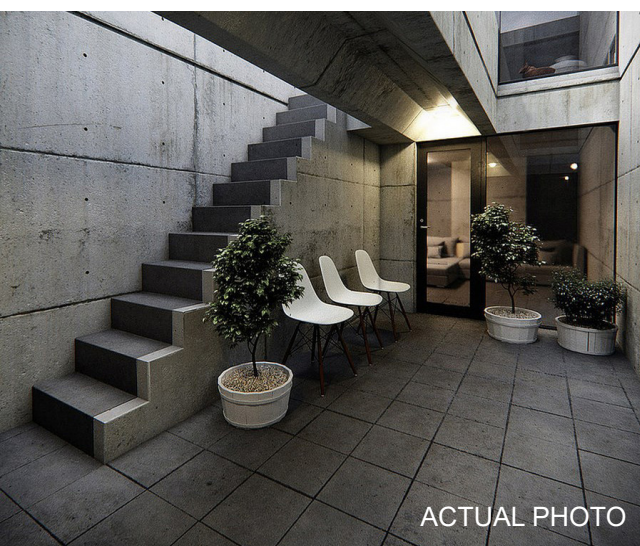
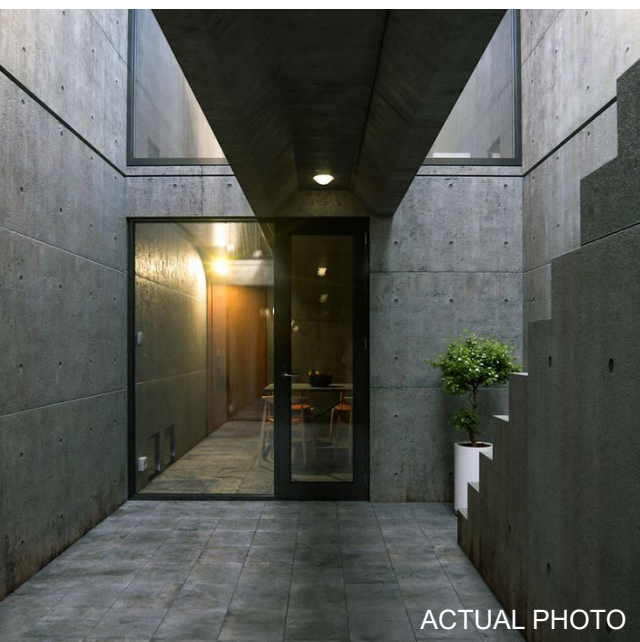
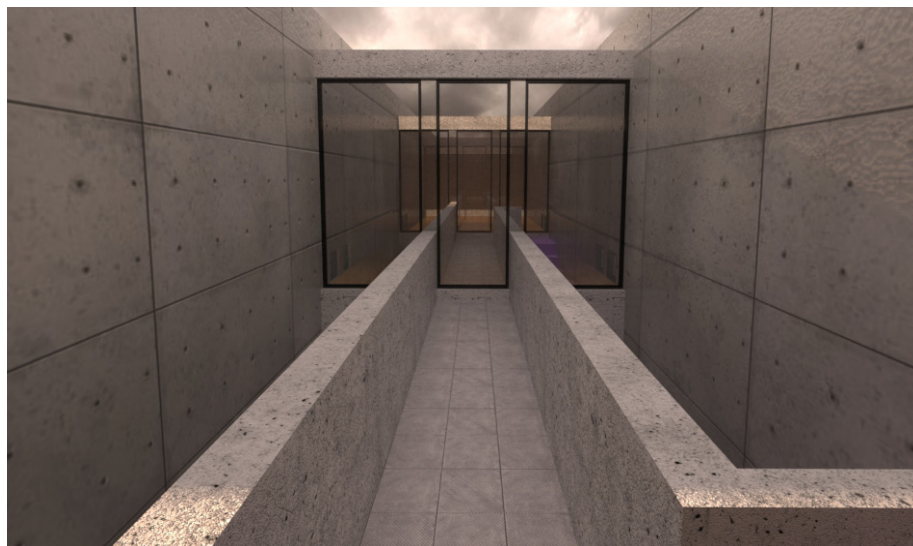


# RENDERINGS

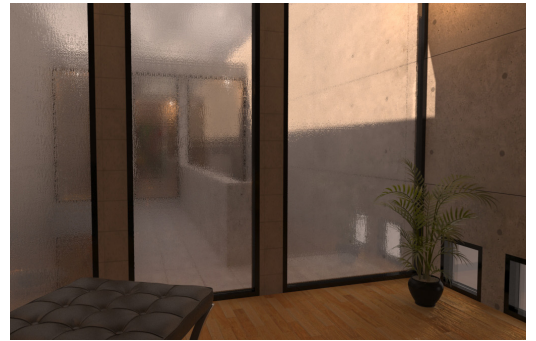
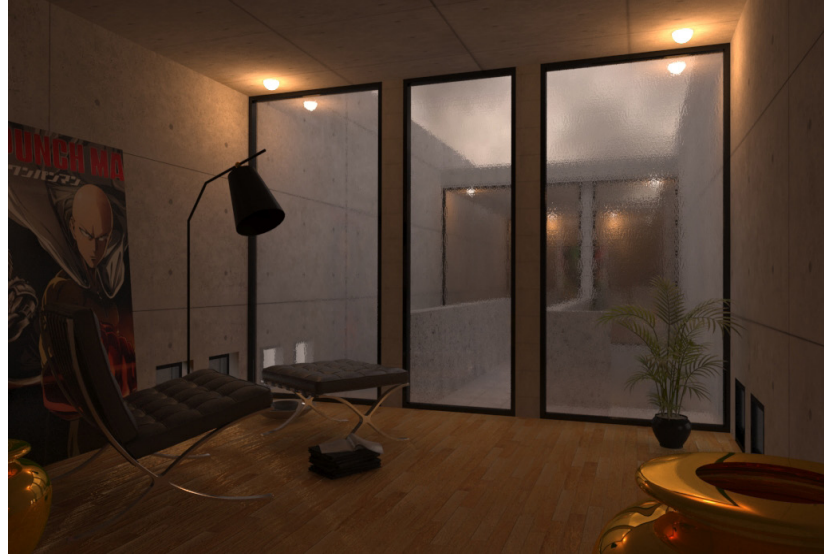
3DS MAX  
LUMION



# 3DS MAX- AZUMA HOUSE

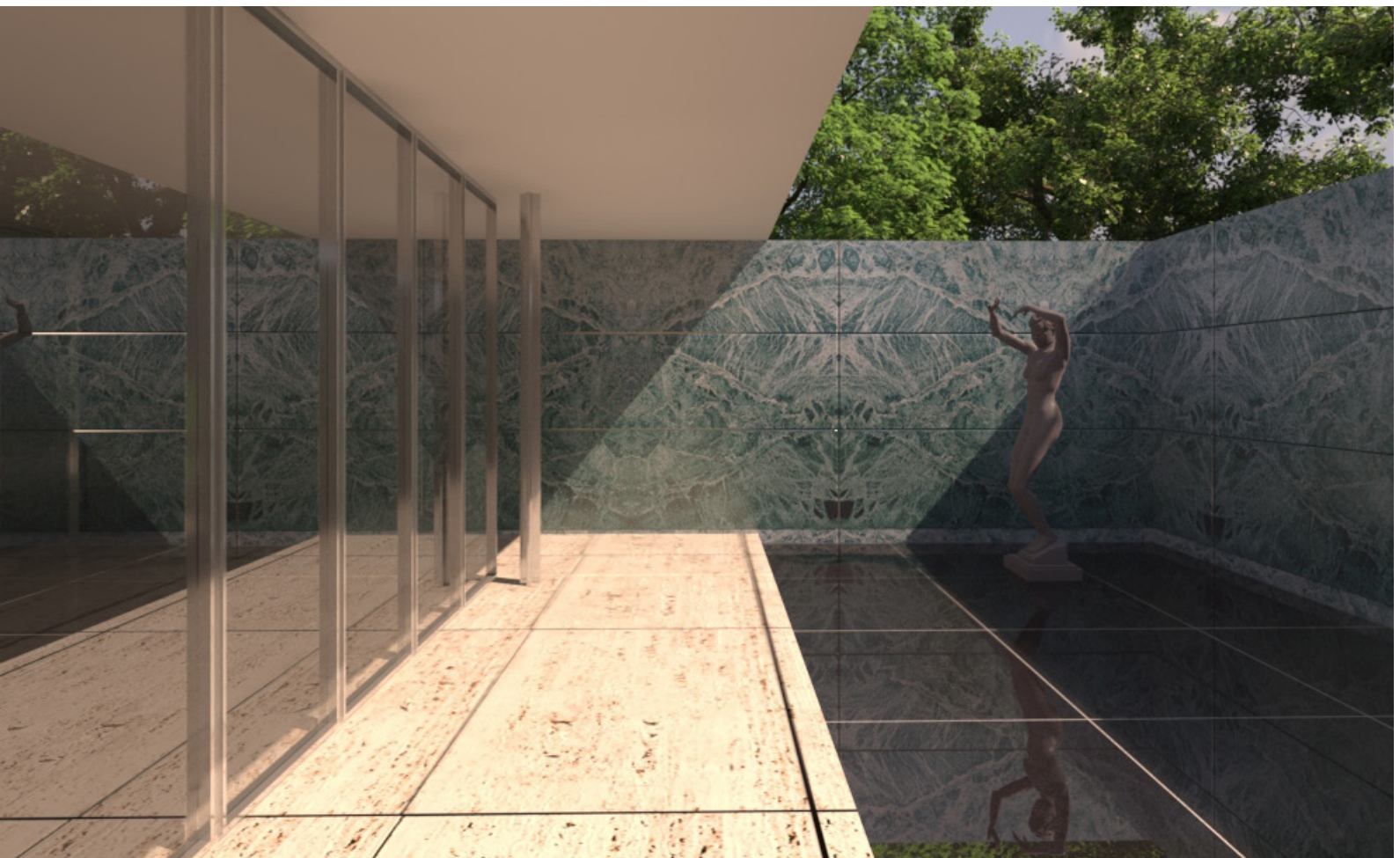
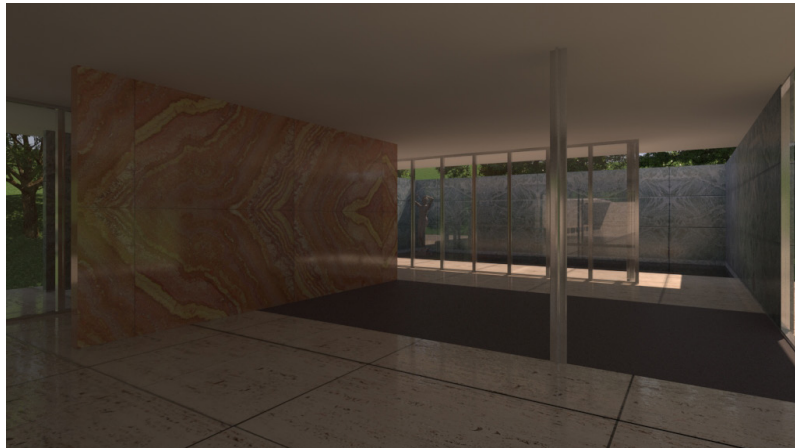




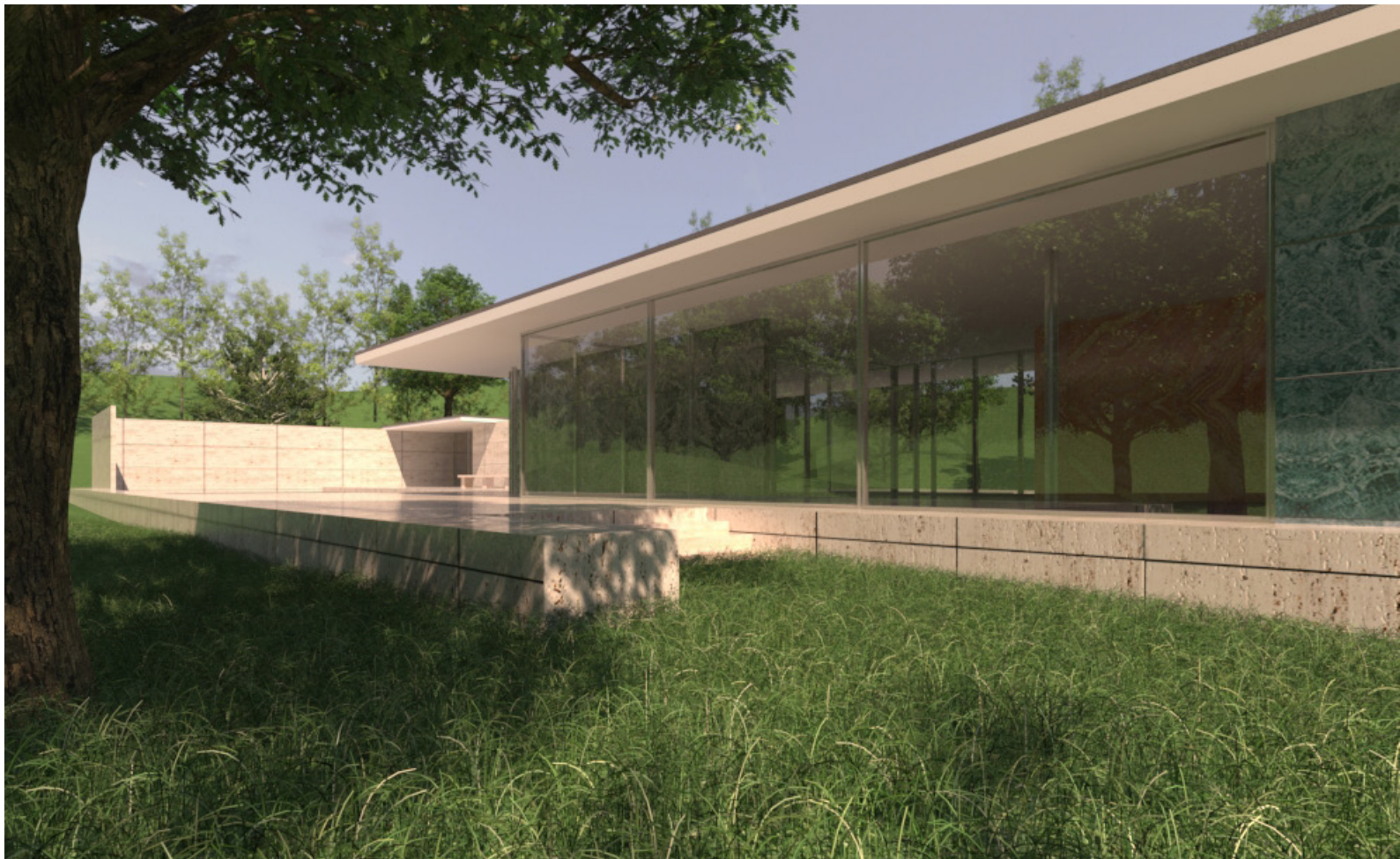
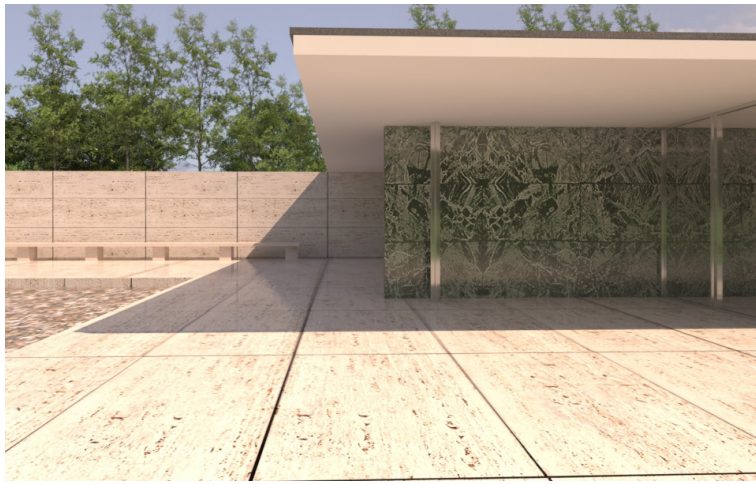




# 3DS MAX- BARCELONA PAVILION









# LUMION - BARCELONA PAVILION





