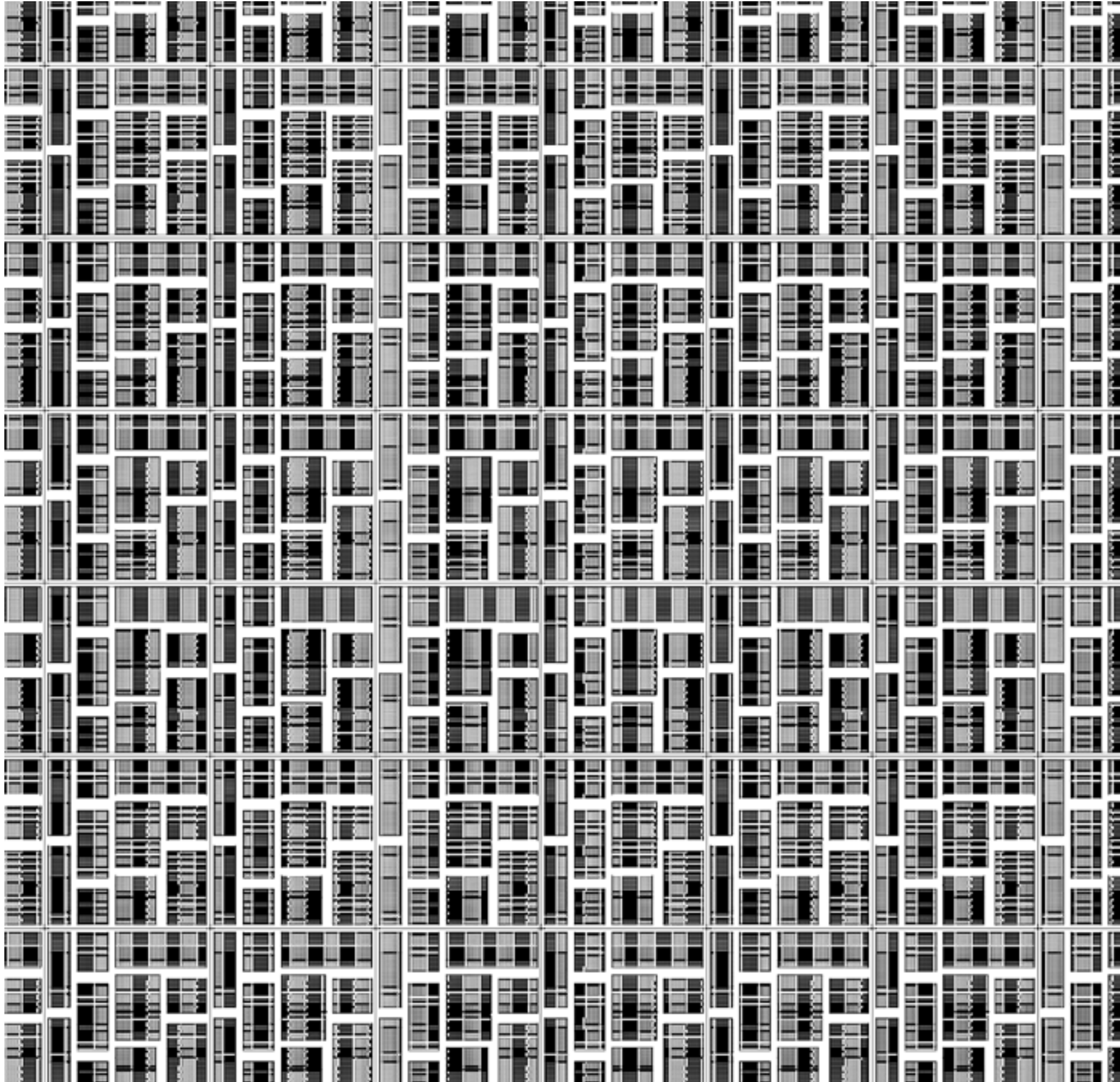




NIKITA KUMAR
PORTFOLIO
ARCHITECTURAL WORKS



CONTENTS

Grid(un)LOCK : SUNSET 2050	01
└ <i>Sunset 2050 at A+D Museum, LA</i>	
Crescent Apartments, Studio City	07
Rose Garden Tea Room, Pasadena	12
2232 Piedmont Avenue, UC Berkeley	18
Ram Vatika, Ahmedabad	22
City Center, Bhopal	24
Shop.Lyft: Architecture + Mobility	30
Prosthetics: Gaming Controller	32

GRID(UN)LOCK: SUNSET 2050

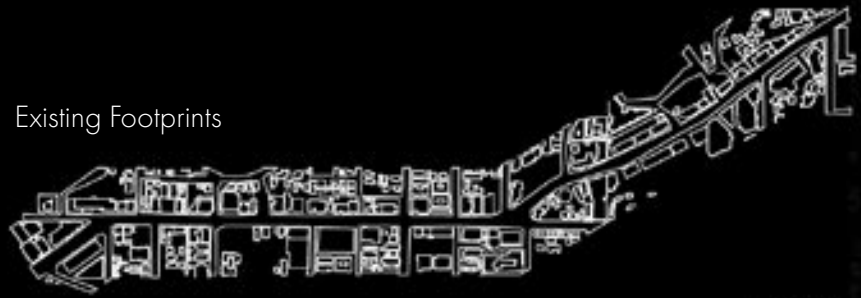
FALL 2017/WINTER 2018
INSTRUCTOR : CRAIG HODGETTS

Suprastudio Hodgetts worked on a master plan for the Sunset Strip, circa 2050. Taking an inter-disciplinary approach to understanding the future of our society, economy, technology, communications and many other aspects that dictate a society. The studio recognized the overlaps between transportation and architecture, and how the two could help each other optimally. A master plan and transportation scheme was developed in collaboration with Art Center College of Design for Sunset Boulevard for the year 2050. The final work was exhibited at A+D Museum, Los Angeles during summer 2018.

What if space was defined by that which was visually observed rather than what is physically felt? Using the technique of sight-lines, a new architectural language with stereometric forms is created on the Sunset Strip that celebrates its billboard culture and dictates architecture as a powerful visual experience. Counter culture centers like Pandora's box become the visually unincorporated spaces in a city consumed by simulations, while spontaneous streets are generated on occasion over a continuous and amorphous landscape that permits man and autonomous vehicle to move in harmony.



Existing Footprints



Stage 1: Eradicating road networks



Stage 2: Identifying buildings with obsolete programs and functions



Stage 3: Defining the streetscape



Stage 4: Highlighting the iconic spots



Diagrams: Built-down, clearing obsolete infrastructure for a new built scape.



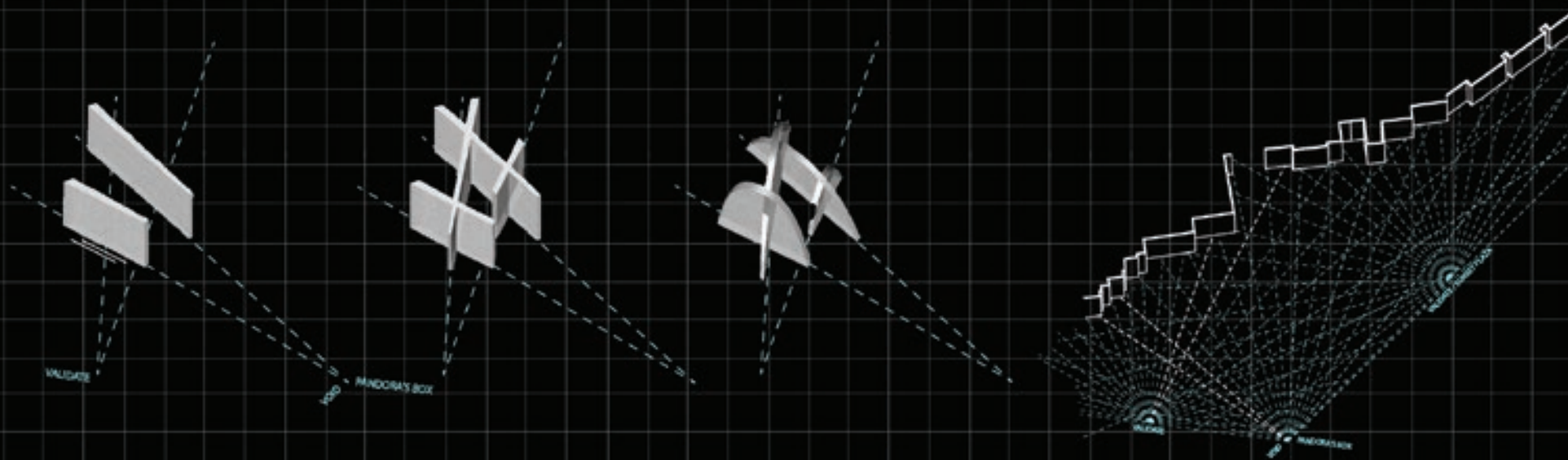
Master plan



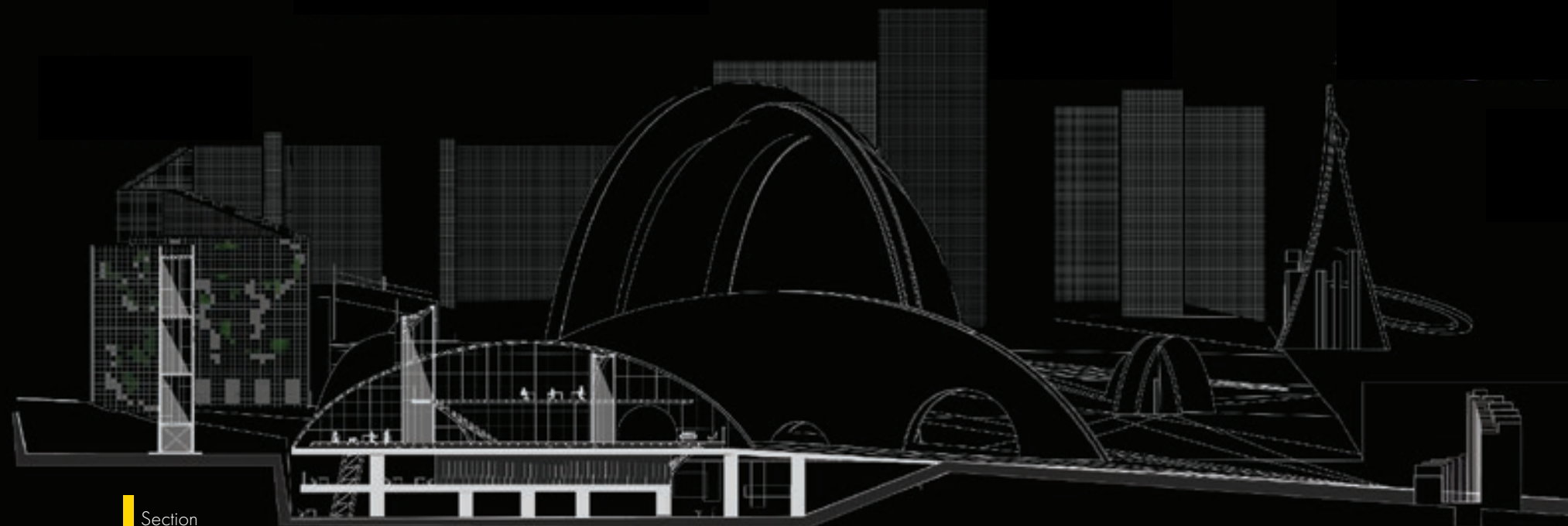
Diagrams: Sightlines from different view points.



Illustration: Spontaneous movements.



Diagrams: Guidelines



Section

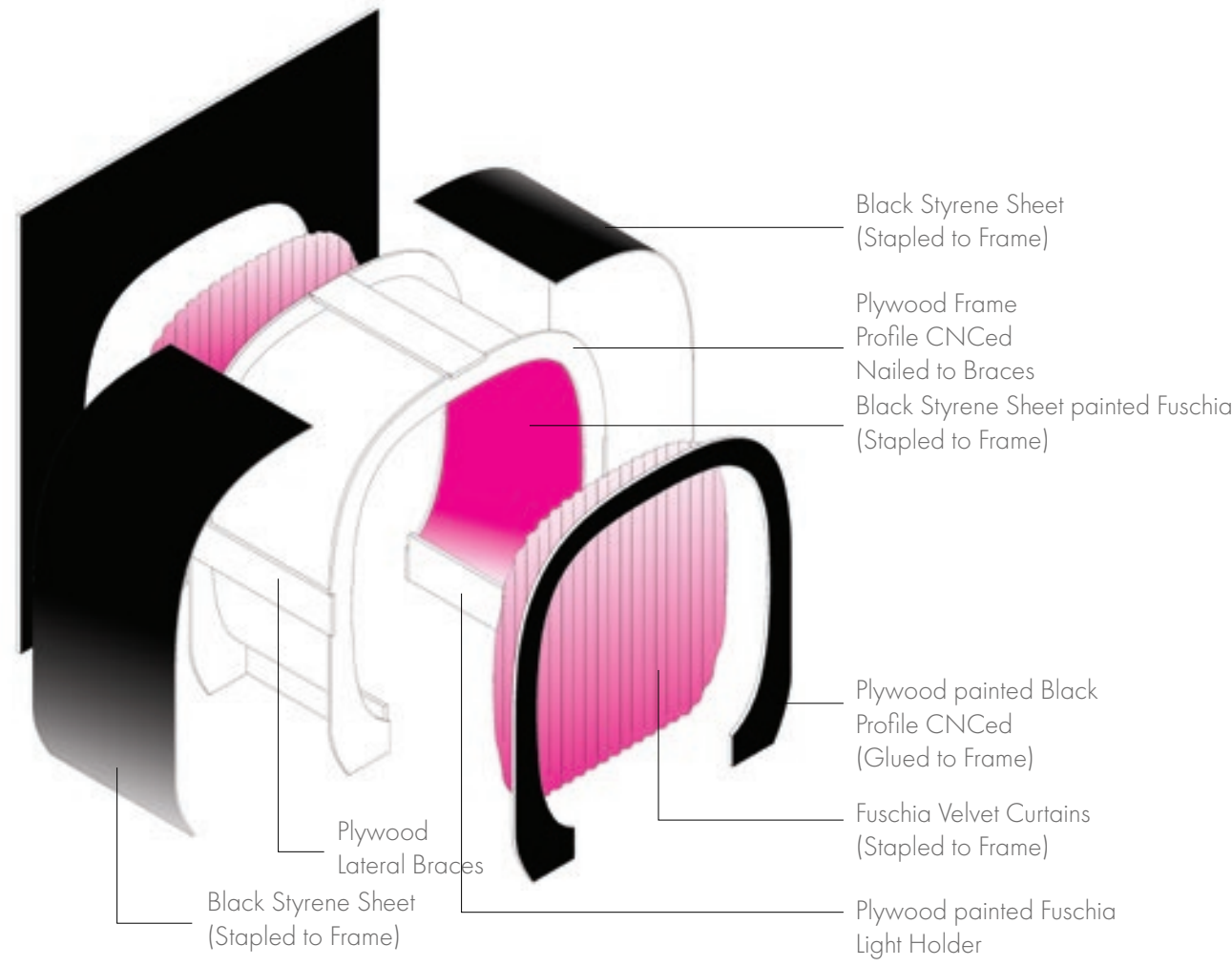
Speculating on how images can create a public space rather than physical built structures. Wholes and fragments of images laterally along Sunset Boulevard, viewed from an autonomous vehicle following spontaneous paths can create an intriguing environment.



SUNSET 2050 AT A+D MUSEUM

CONSTRUCTED : SPRING 2018
EXHIBITED: JUNE-AUGUST 2018

Suprastudio Hodgetts was invited to exhibit the year-long work on Sunset Boulevard at the A+D Museum, LA for summer 2018. As a studio we worked on the design and construction of the exhibit and also made model for the design projects



Exploded axonometric for design and construction strategy



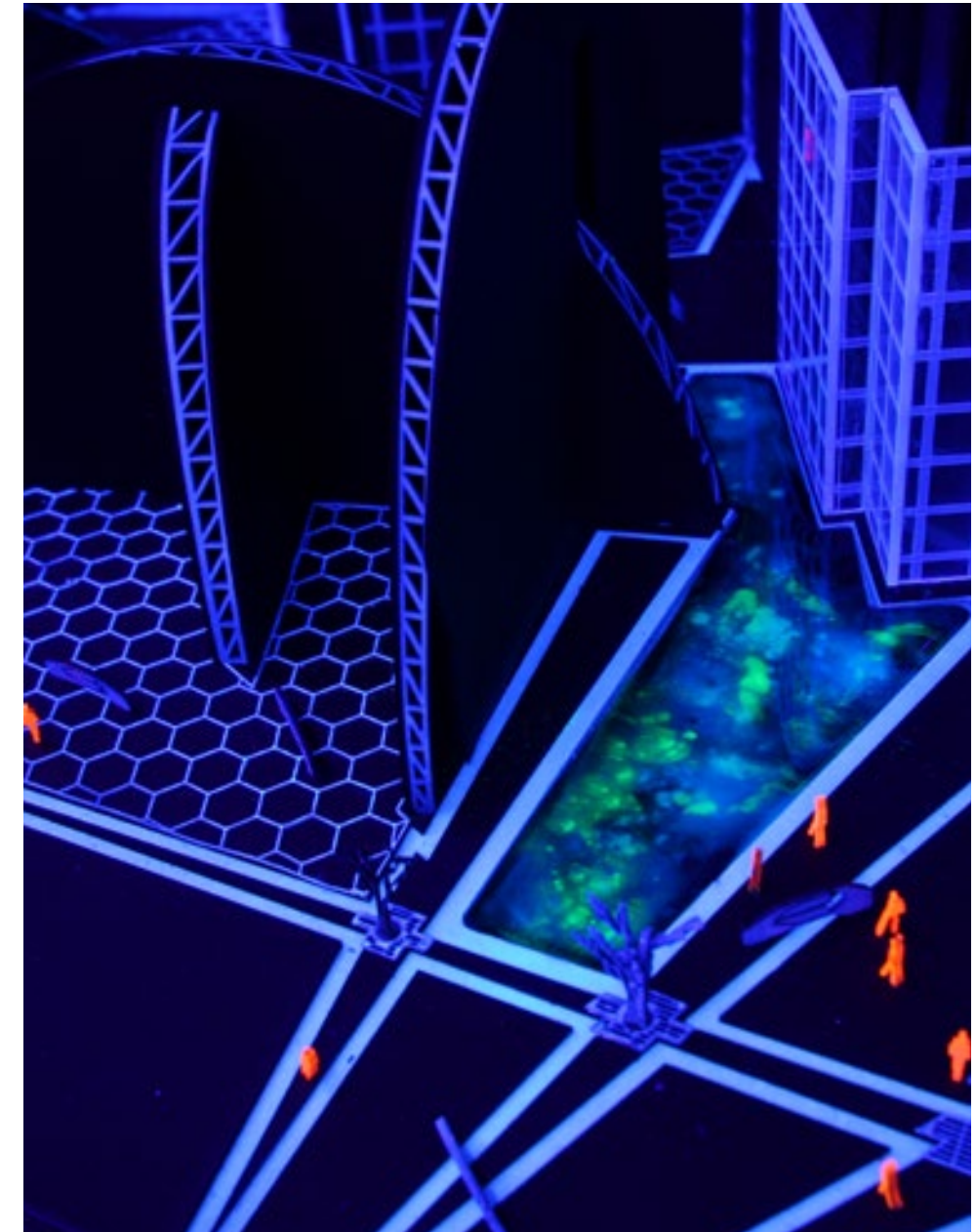
Photographs:
1. Photographed by Elena Zhukova
2. Entrance 3. Project model



The exhibit was designed to encapsulate the cacophony of the Sunset Strip. Black lights, Fluorescent colors and Crowd.



The architectural model for each proposal was re-thought in black light. 3d-printing, wood work, paper, paints and resins were experimented with.



The models were supported by drawings, that were created with the same techniques. All the pieces crowded in the tunnel, made the exhibit design a reality.

CRESCENT APARTMENTS

CONTRACTED FOR DESIGN DEVELOPMENT
MULTI-FAMILY HOUSING
ARCHITECTURAL RESOURCES GROUP

Project Team:

Project Architect- Julia Ausloos

Technical Architect- Gary Murakami

Junior Designer- Nikita Kumar

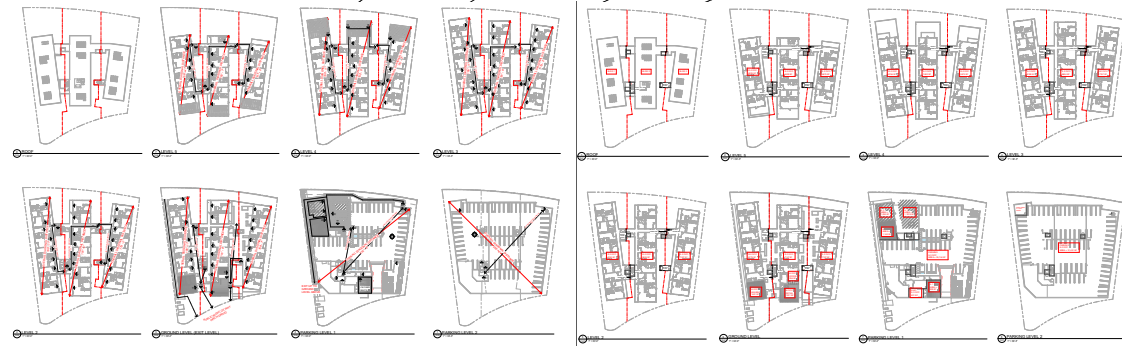
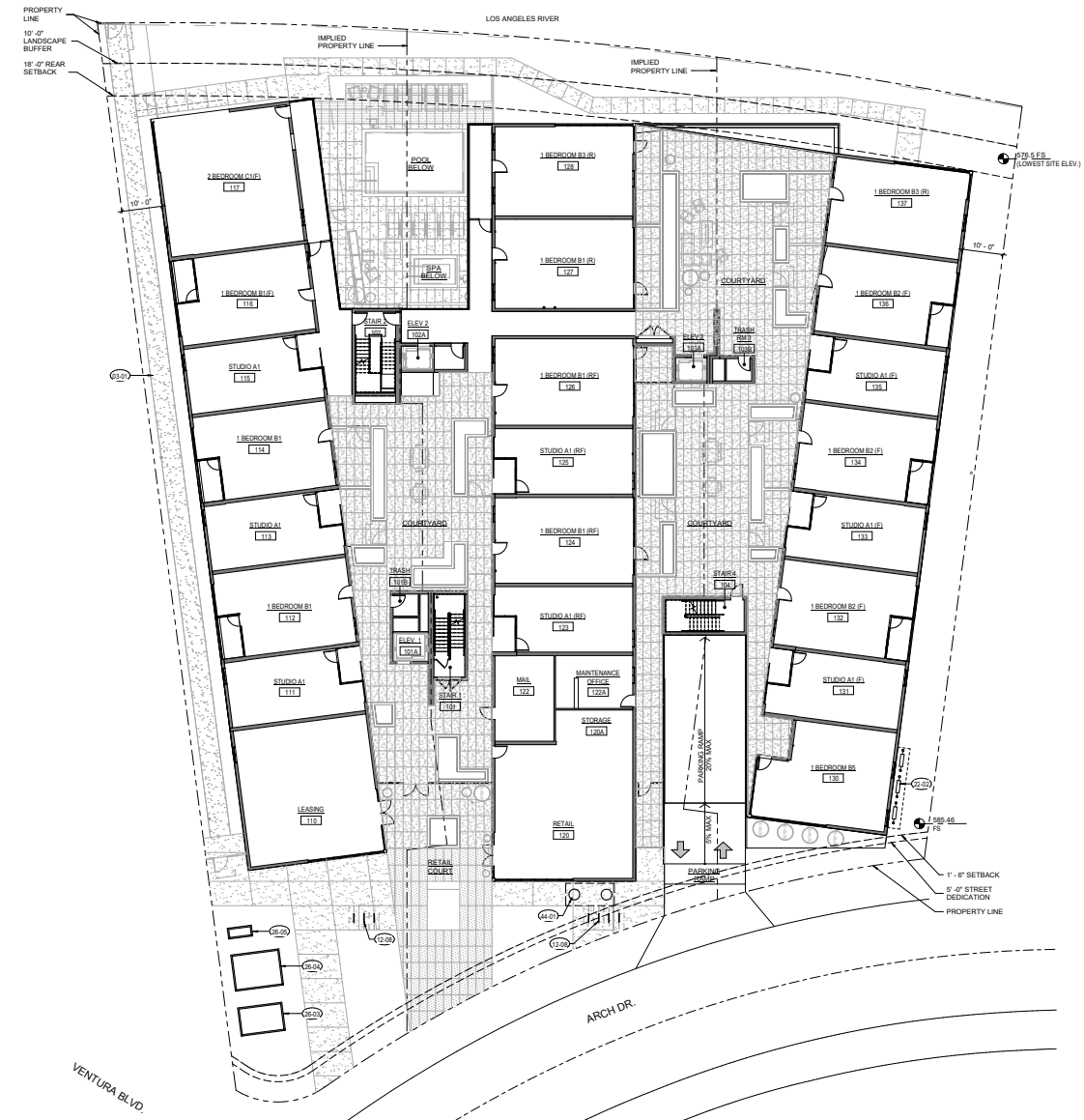
Located in Studio City, this multi-family residential project accommodates 106 units. The design and aesthetics evoke mid-century modern and the valley culture of Studio City. The back of the property faces the LA river for which revitalization efforts are underway. Thereby subjecting the project to RIO guidelines set by Los Angeles City Planning.

From schematics through design development my responsibility was to assist the team in:

- material, specifications, product researches
- create drawings sets and renderings for client reviews, entitlements procedures, permit submittals and marketing.
- check adherances to building and zoning codes, and RIO guidelines.



View when approaching through Ventura Blvd



Site plan and code analysis diagrams

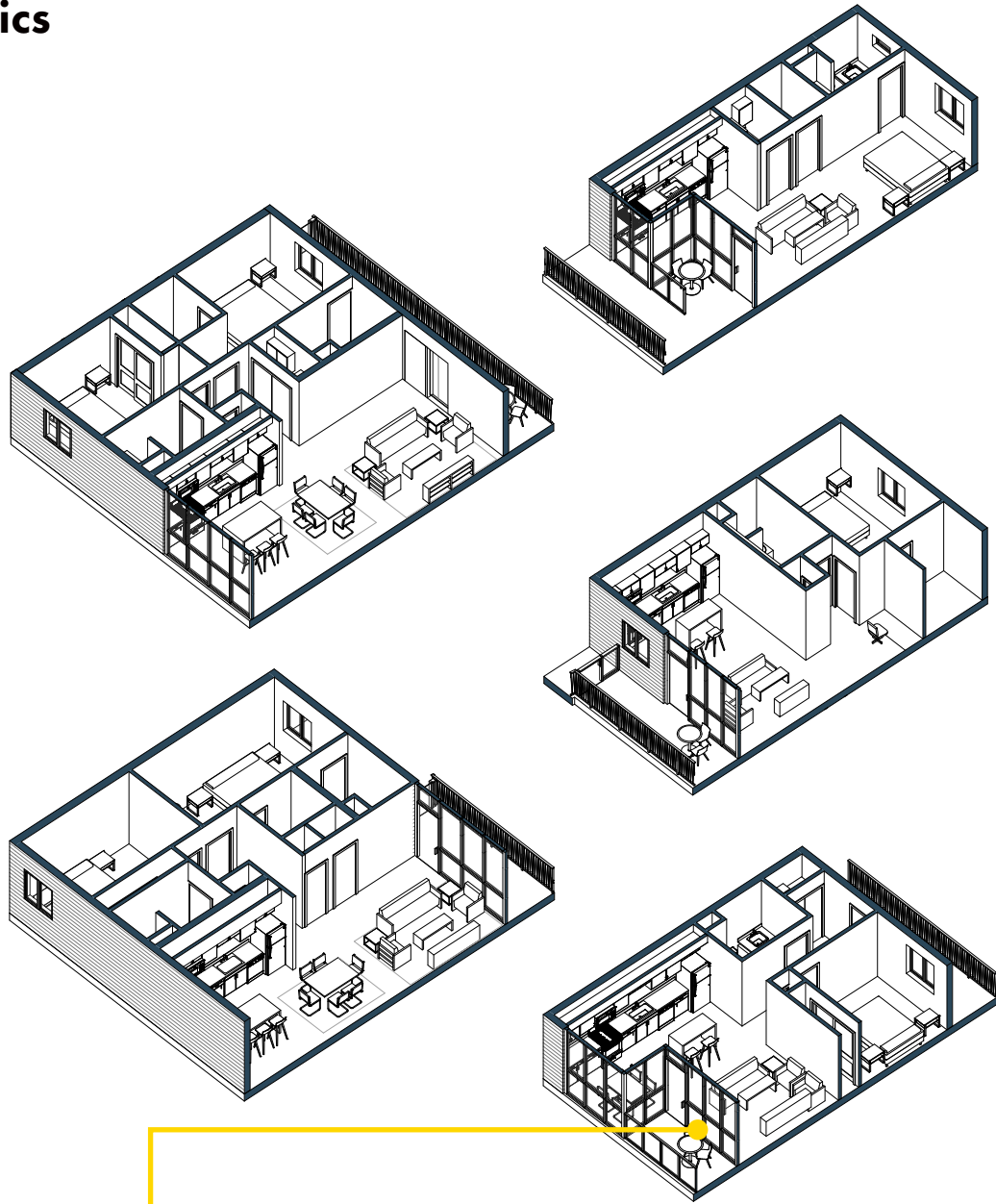


West ramp to the LA river

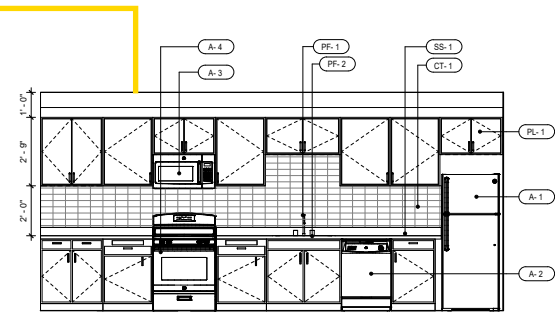
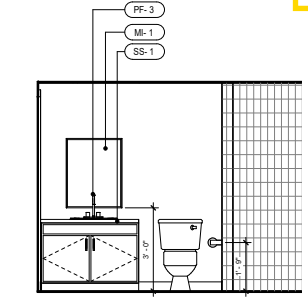
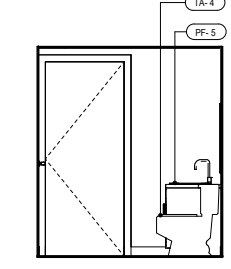
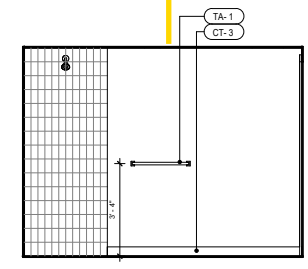
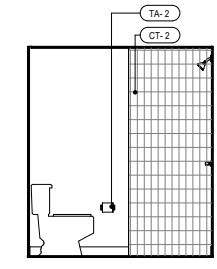
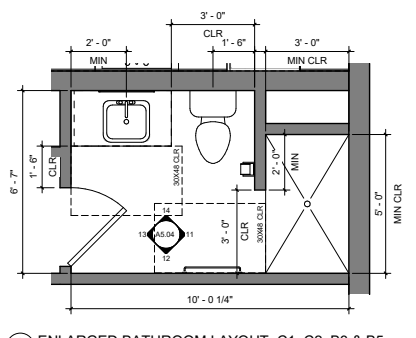
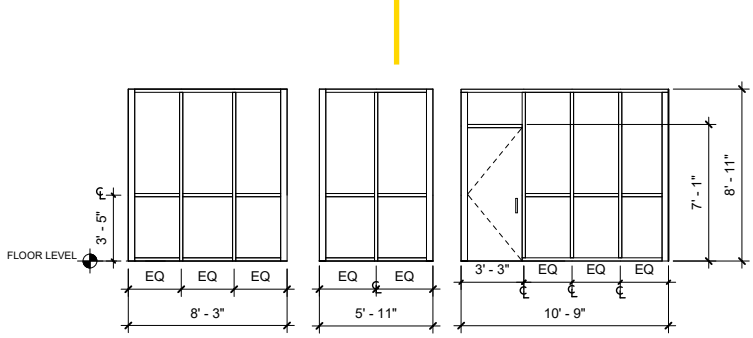
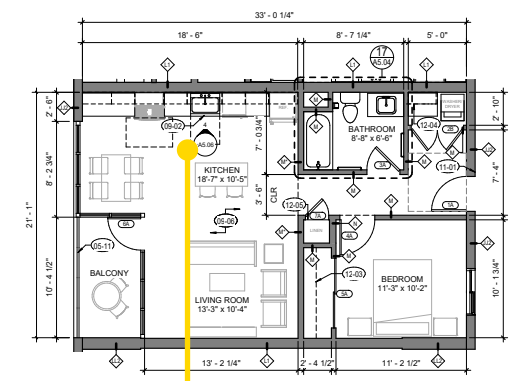
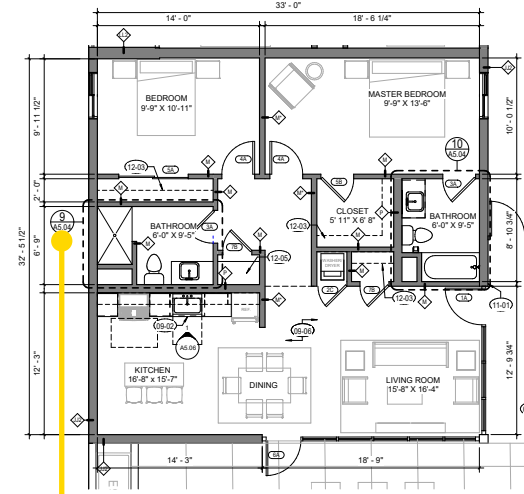
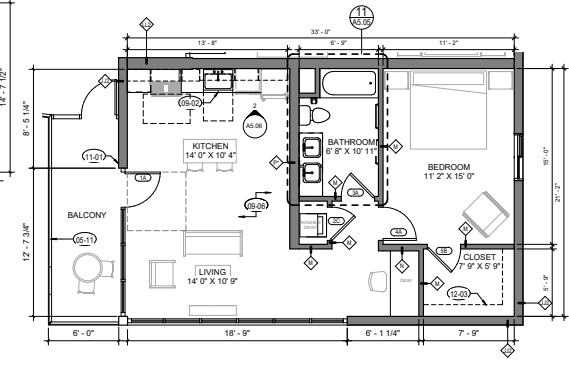
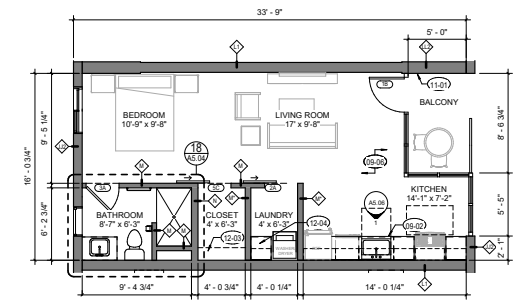
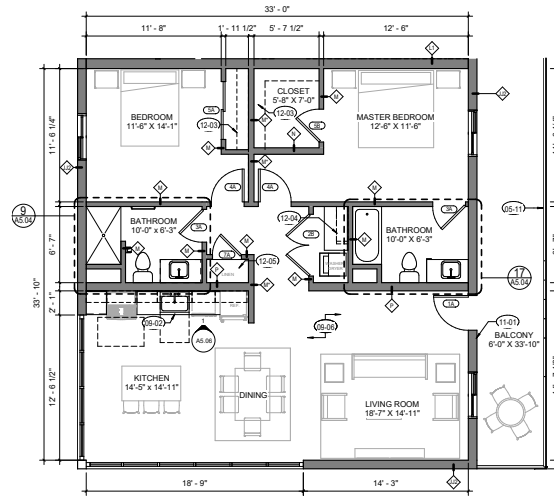


View of the elevated courtyard

Schematics



Design Development



9 ENLARGED BATHROOM LAYOUT_C1, C2, B3 & B5

ELEVATION 11

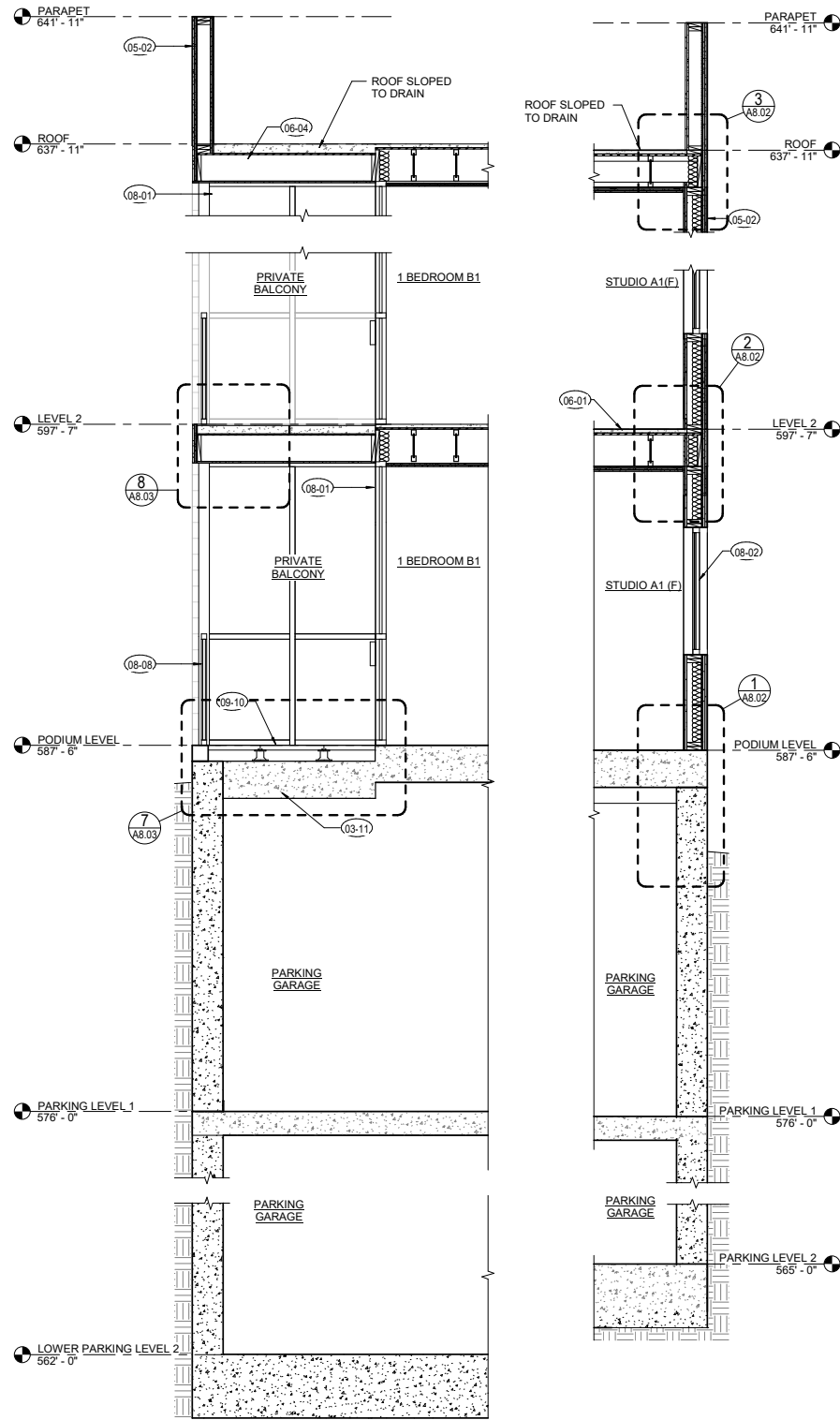
ELEVATION 12

ELEVATION 13

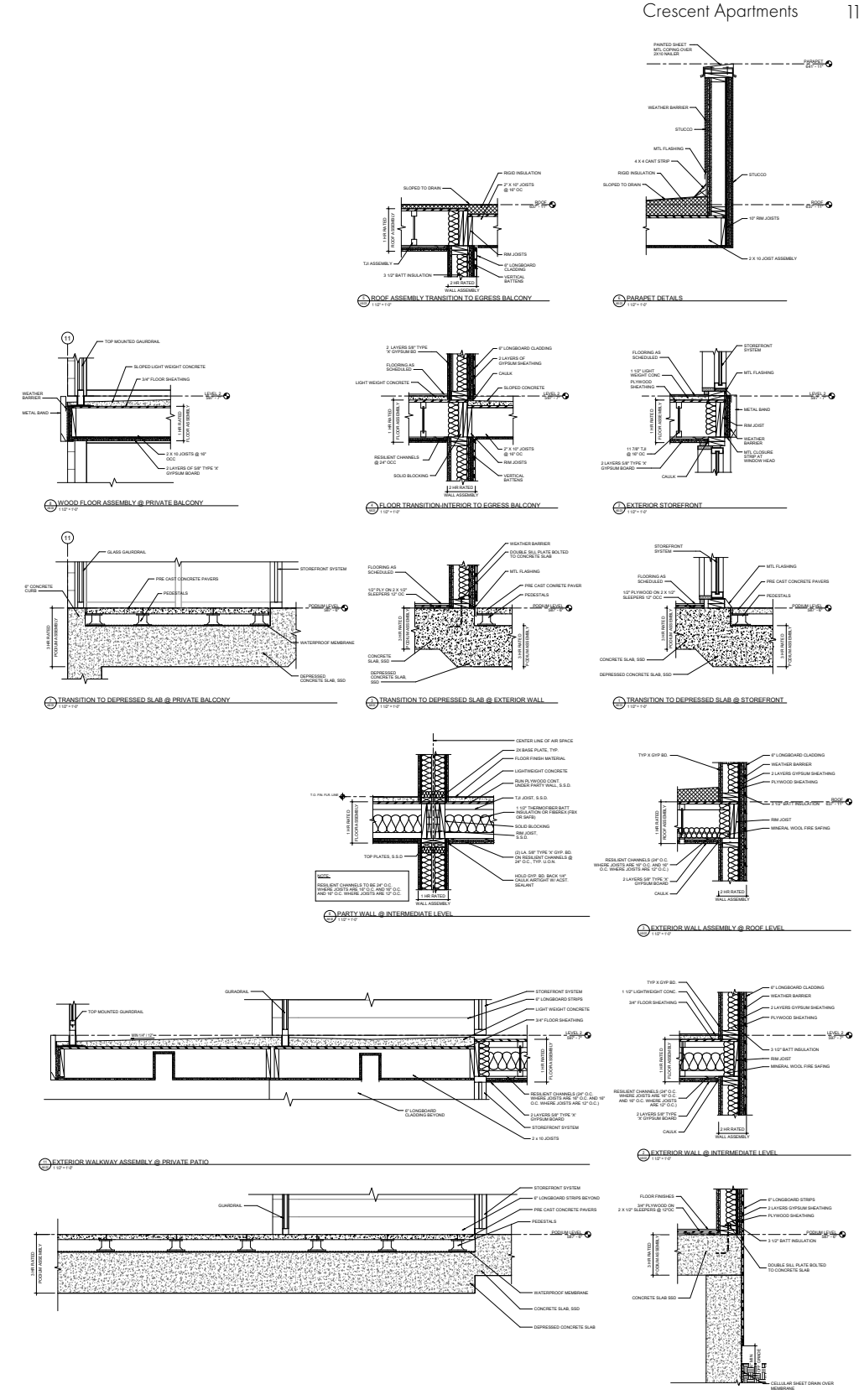
ELEVATION 14



Center wing elevation



Exterior wall section and details



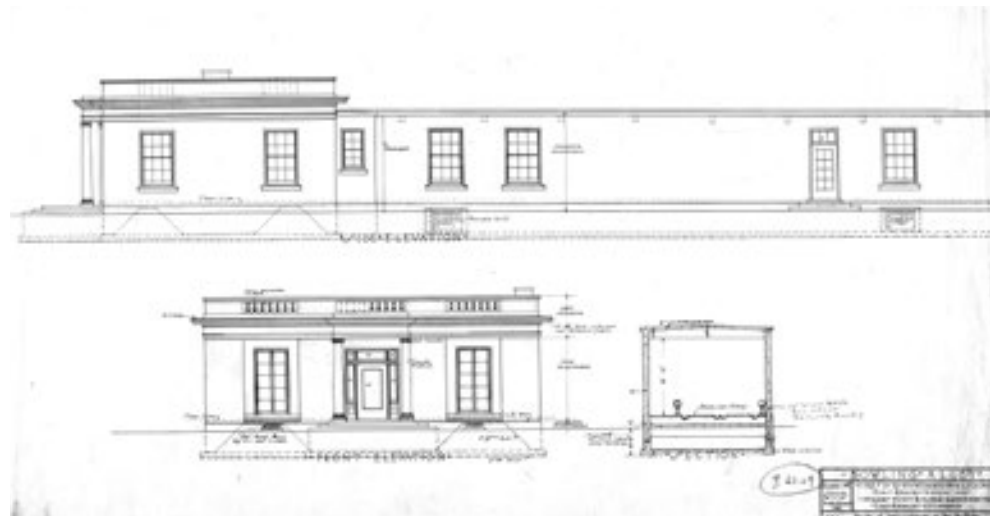
ROSE GARDEN TEA ROOM

UNDER CONSTRUCTION
HOSPITALITY
ARCHITECTURAL RESOURCES GROUP

Project Team:
Project Architect- Jutine Leong
Design Architect- Steve Farneth
Junior Designer- Nikita Kumar

Situated in the lush Huntington Gardens in Pasadena, the Tea Room was originally Henry Huntington's bowling alley and billiard room. In 1928, it was transformed into a tea room and since then many additions were made to the historic structure.

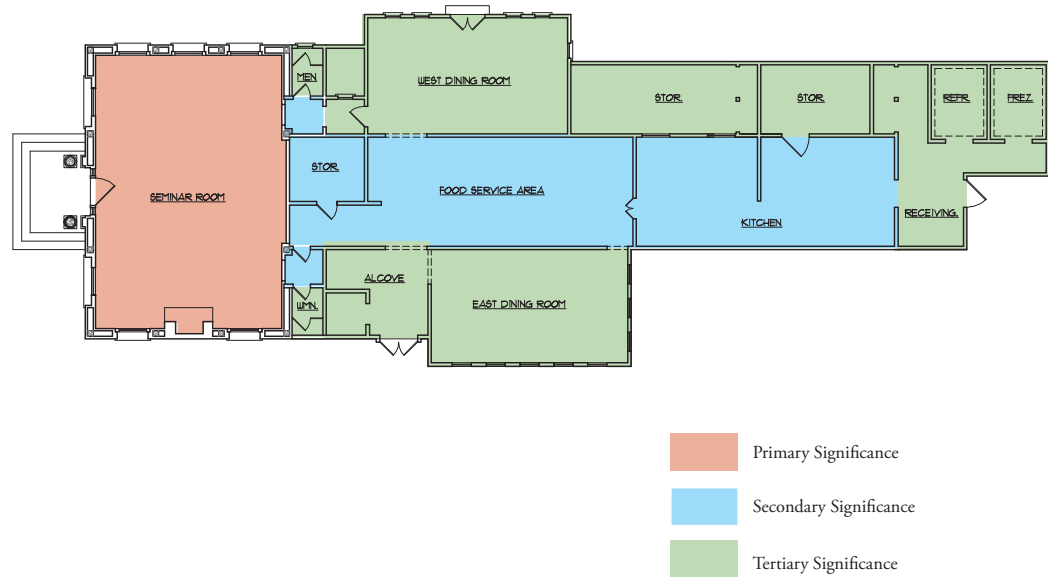
The design entails demolishing all the additions made to the historic building, rebuilding the kitchen, adding an outdoor dining area overlooking the gardens, and rehabilitating the Tea Room.



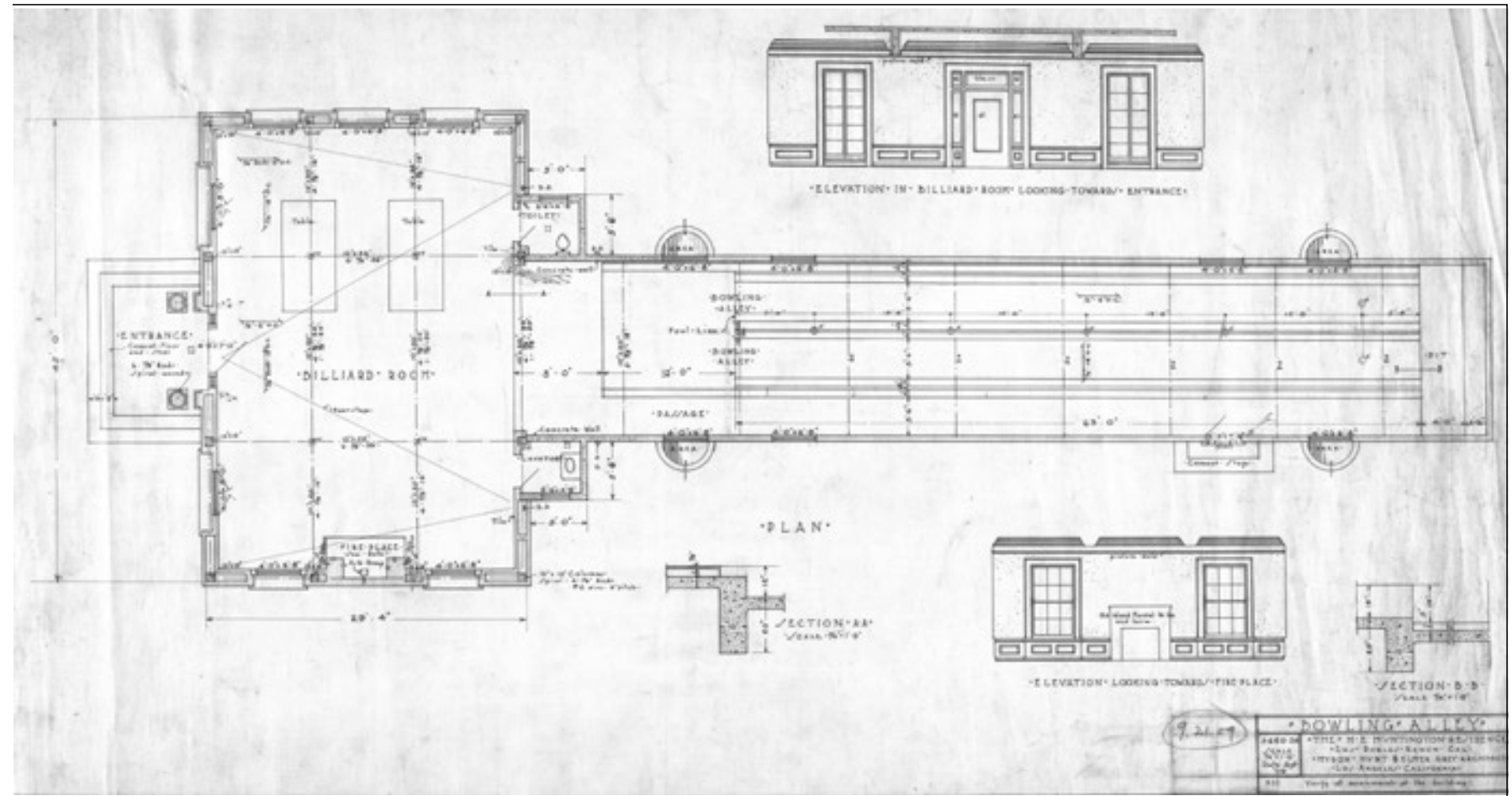
Building Elevation and Section drawings, Myron Hunt and Elmer Grey Architects, 1909



Mr. Huntington and Mr. Varnum on top steps of Billiard room and Bowling Alley building, 1915



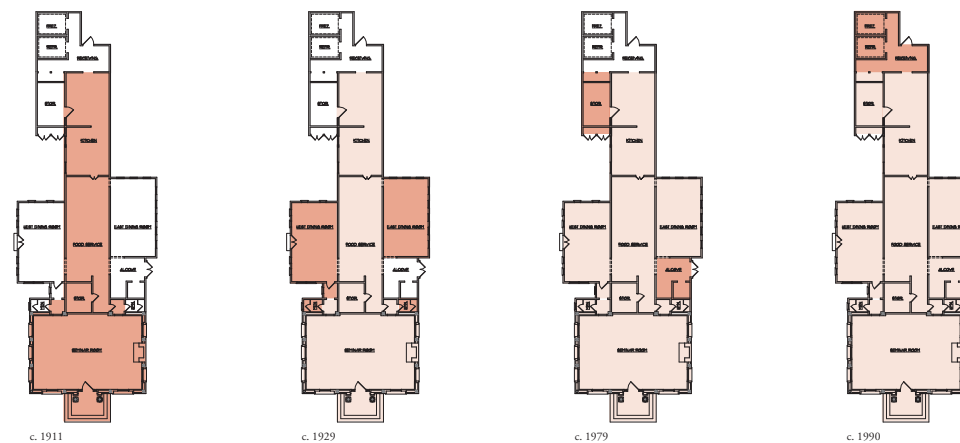
Historical Significance diagram, ARG.



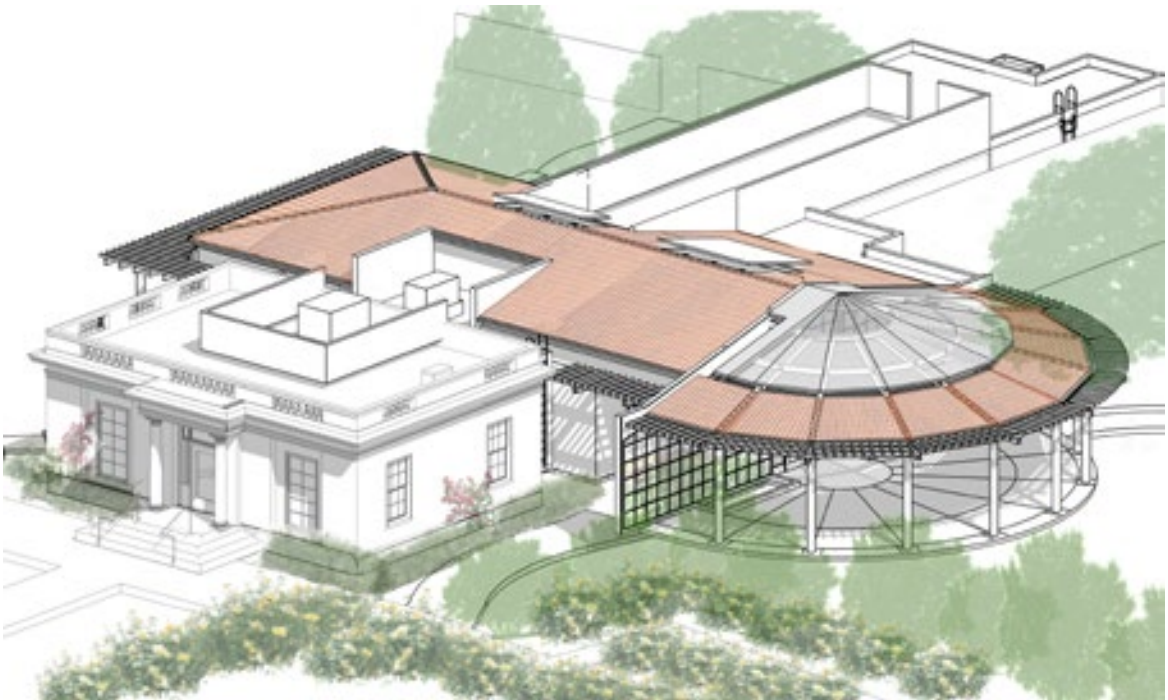
When the building was transformed into a tea house for the public, a kitchen, storage and other ancillary spaces were added to it. ARG did studies in 2012 to map out these additions. They found that many alterations had been done to the historic bowling alley, and significant features were lost.

We decided to demolish all spaces of tertiary significance and gut the interiors of the areas marked as secondary significance. The new proposed addition would go perpendicular to the historic building.

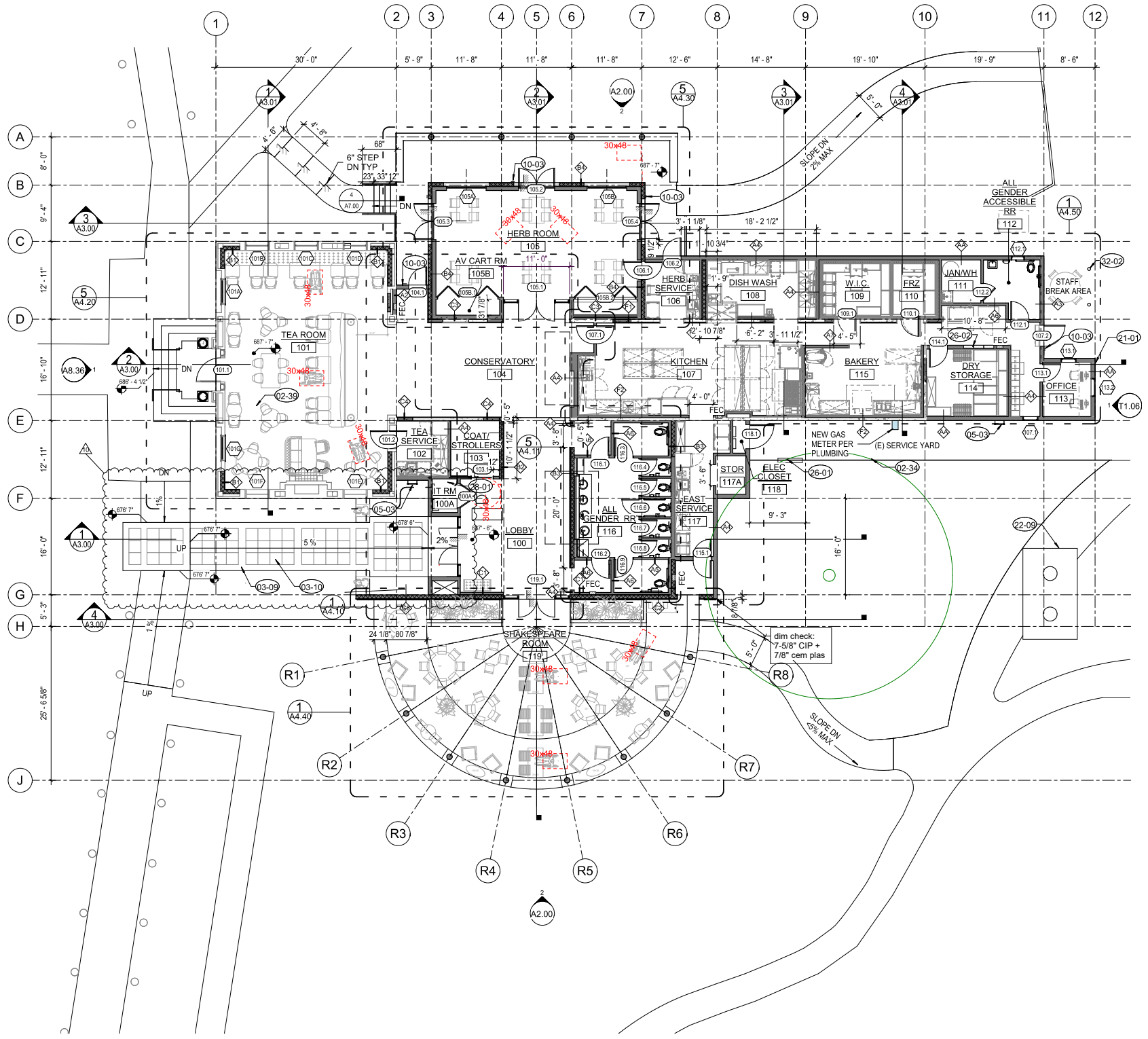
Building Plans and Interior Elevations, Myron Hunt and Elmer Grey Architects, 1909



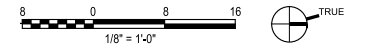
Chronological study of additions made to the historic building, ARG.



Top: Aerial View; Bottom: View from the rose arbor.

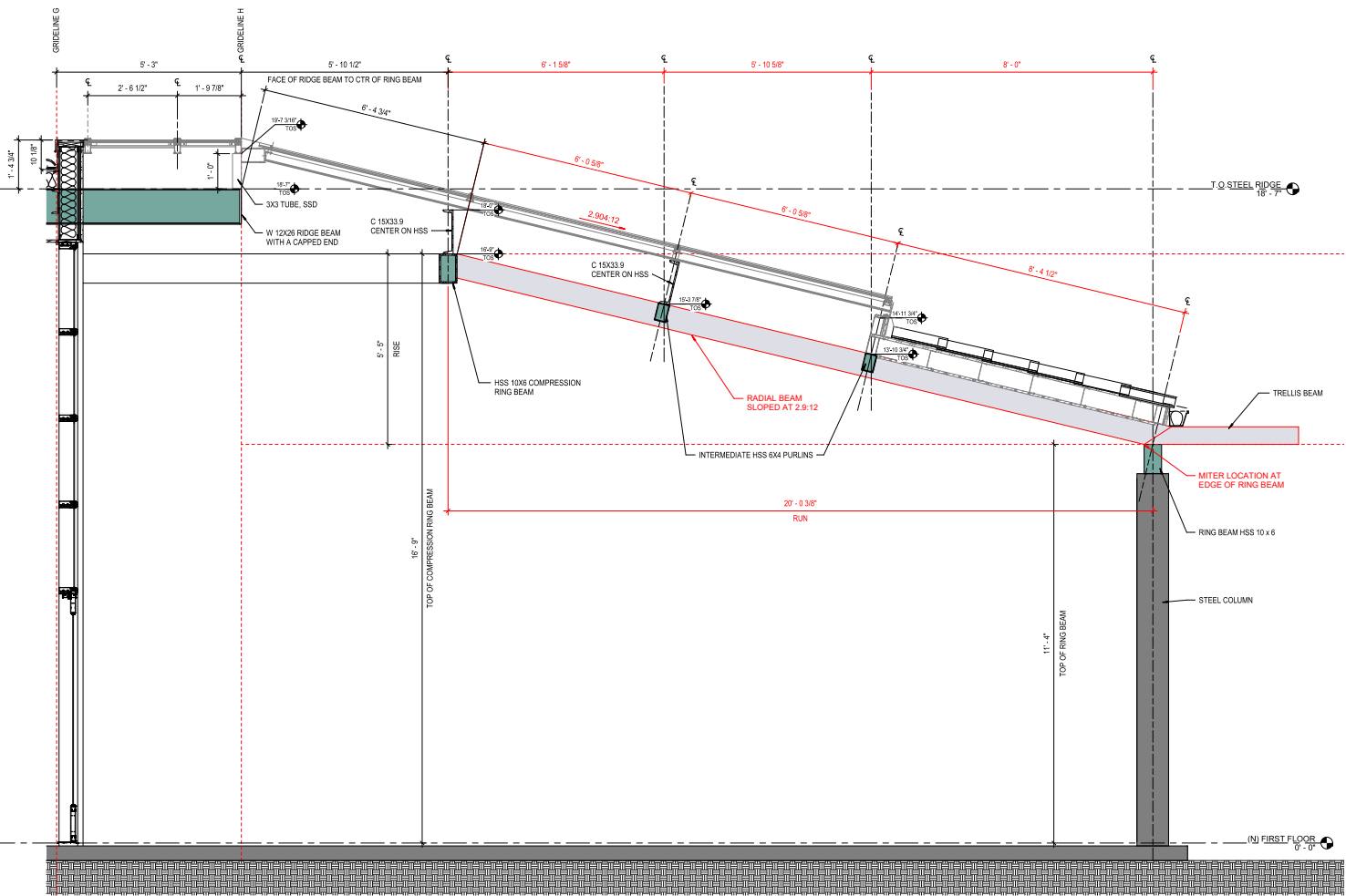


Proposed Floor Plan





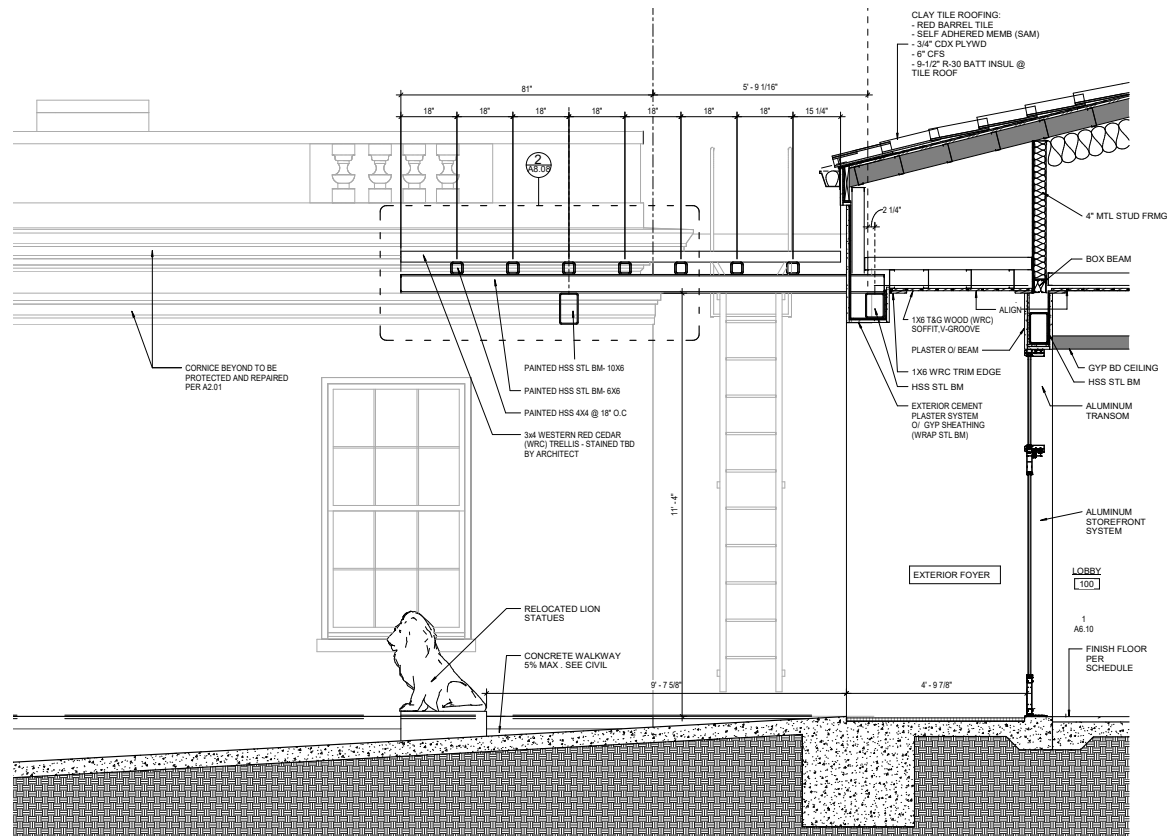
Outdoor dining in Shakespeare Room



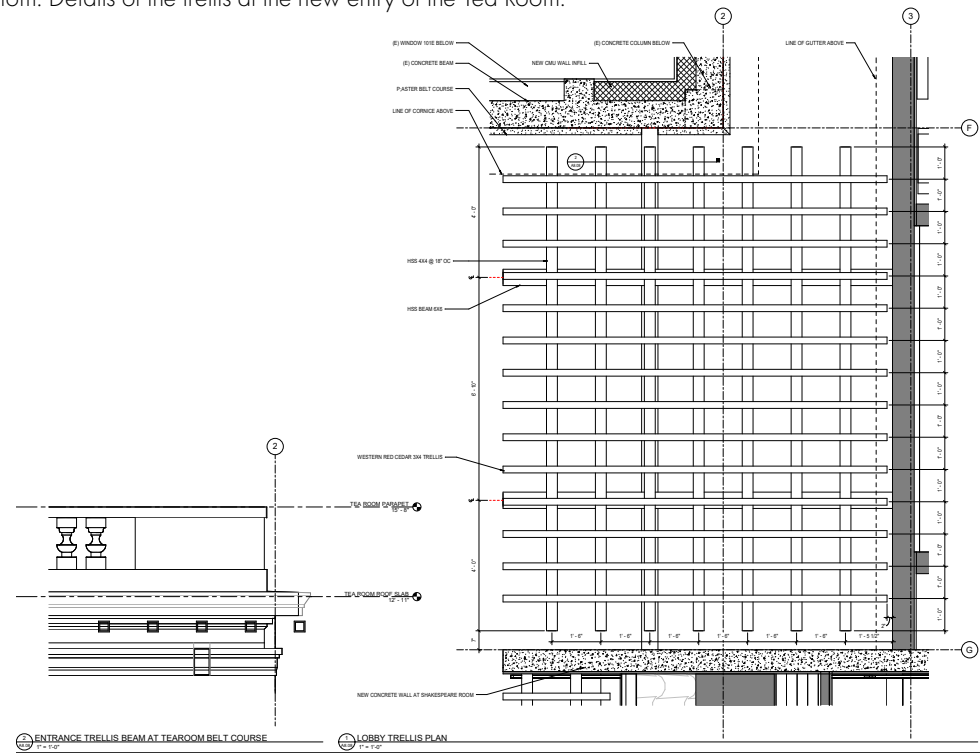
Steel framing in Shakespeare Room



East - West Section



Top and Bottom: Details of the trellis at the new entry of the Tea Room.



View looking at the new entry of the Tea Room.



North - South Section

2232 PIEDMONT AVENUE

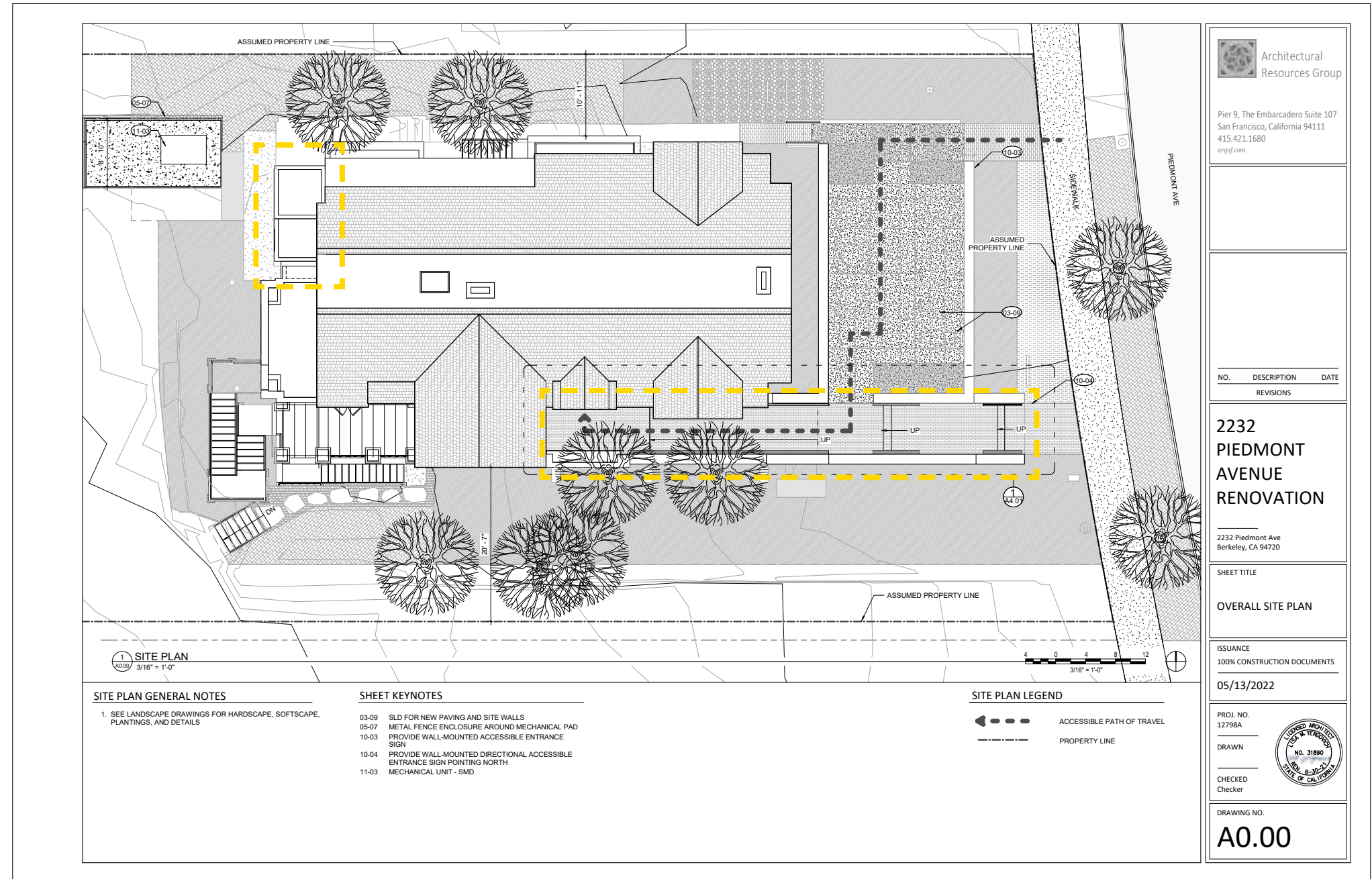
PERMIT SUBMITTAL
WORKSPACE
ARCHITECTURAL RESOURCES GROUP

Project Team:
Project Architect- Lisa Yergovich
Design Architect- Kim Champion
Associate Designer- Nikita Kumar

Designed by the architectural firm Morgan and Hoover, this single family dwelling was built in 1909 for the Walter Yale Kellog family. The house was sold to University of Berkeley in 1958. Currently the building is under the Haas School of Business and being renovated to be used as a collaborative workspace for its' students.

The scope of the project is:

- Adding an elevator tower at the back of the building.
- MEP and Landscape upgrades.
- Accessibility upgrades throughout the site and building
- Treatments for exterior walls, windows and doors to repair rots, spalls, cracks and decay.



Architectural Resources Group
Pier 9, The Embarcadero Suite 107
San Francisco, California 94111
415.421.1680
argsf.com

NO.	DESCRIPTION	DATE
REVISIONS		

**2232
PIEDMONT
AVENUE
RENOVATION**
2232 Piedmont Ave
Berkeley, CA 94720

SHEET TITLE
OVERALL SITE PLAN

ISSUANCE
100% CONSTRUCTION DOCUMENTS
05/13/2022

PROJ. NO.
12798A
DRAWN
CHECKED
Checker



DRAWING NO.
A0.00

1 SITE PLAN
A0.00 3/16" = 1'-0"

SITE PLAN GENERAL NOTES

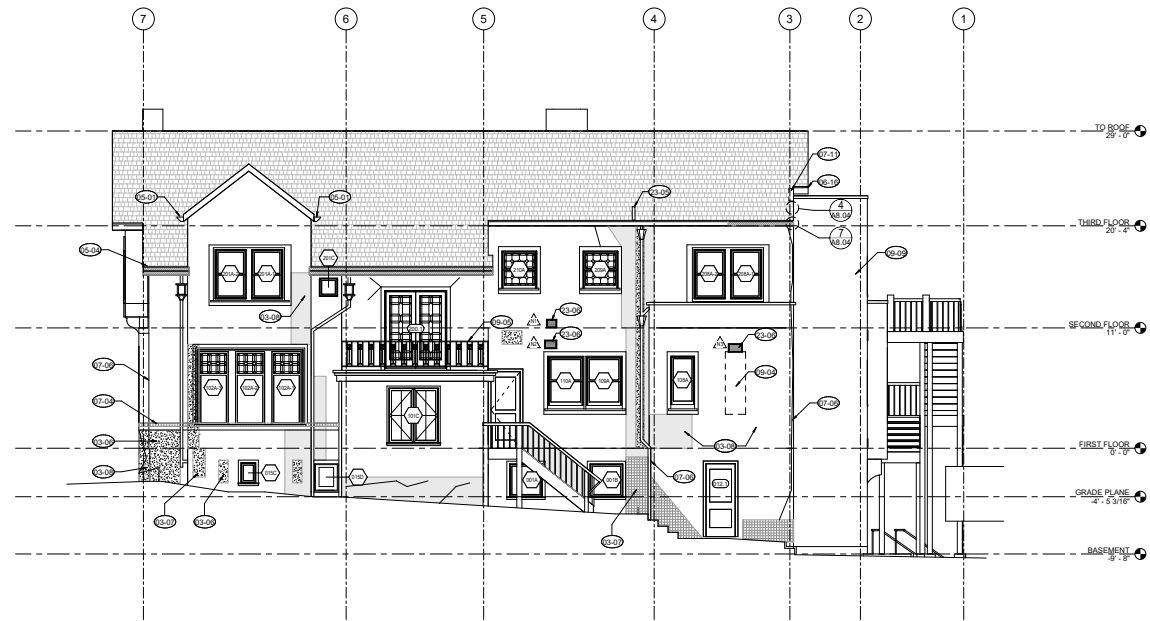
- SEE LANDSCAPE DRAWINGS FOR HARDSCAPE, SOFTSCAPE, PLANTINGS, AND DETAILS

SHEET KEYNOTES

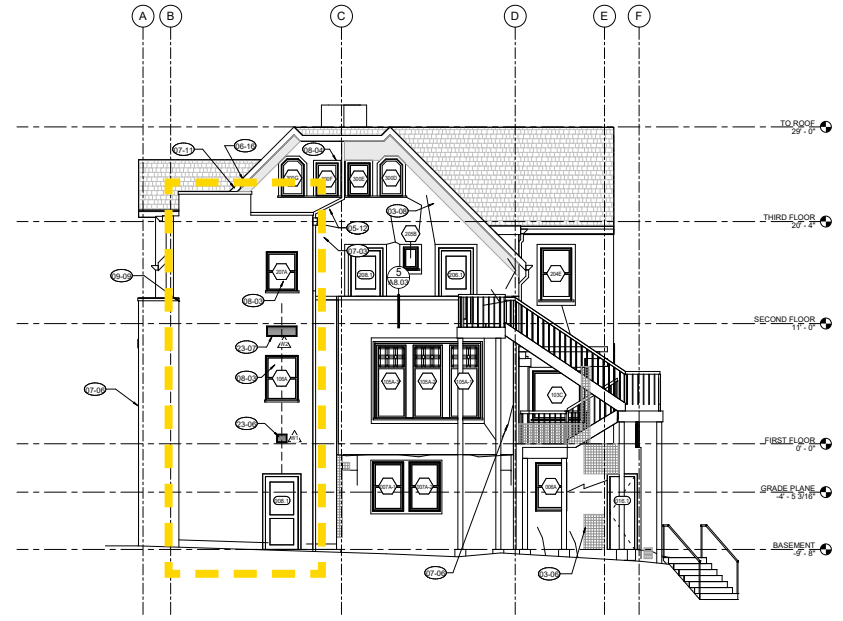
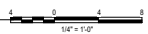
- 03-09 SLD FOR NEW PAVING AND SITE WALLS
- 05-07 METAL FENCE ENCLOSURE AROUND MECHANICAL PAD
- 10-03 PROVIDE WALL-MOUNTED ACCESSIBLE ENTRANCE SIGN
- 10-04 PROVIDE WALL-MOUNTED DIRECTIONAL ACCESSIBLE ENTRANCE SIGN POINTING NORTH
- 11-03 MECHANICAL UNIT - SMD.

SITE PLAN LEGEND

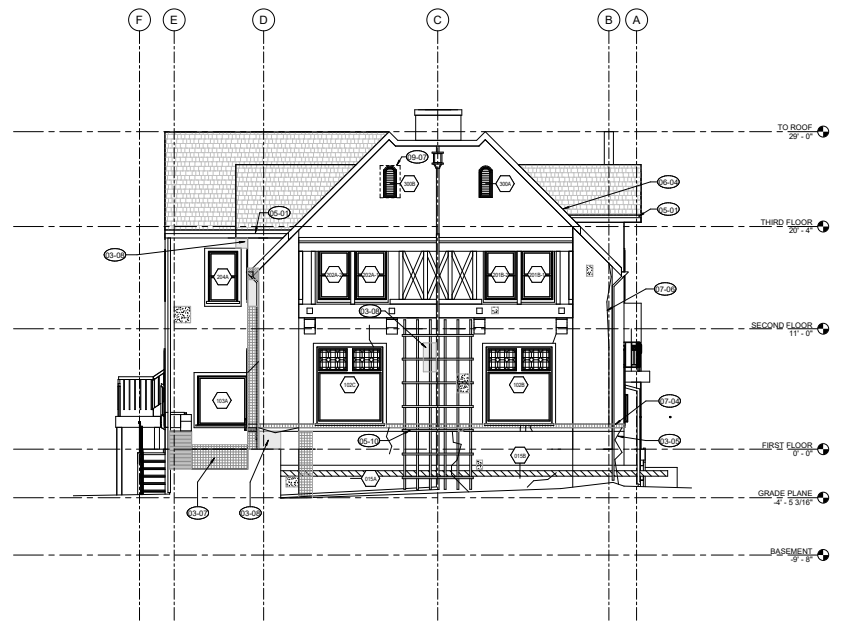
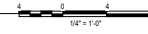
- ACCESSIBLE PATH OF TRAVEL
- - - - - PROPERTY LINE



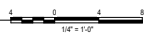
1 NORTH ELEVATION
1/4" = 1'-0"



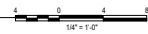
2 WEST ELEVATION
1/4" = 1'-0"



3 EAST ELEVATION
1/4" = 1'-0"



4 SOUTH ELEVATION
1/4" = 1'-0"



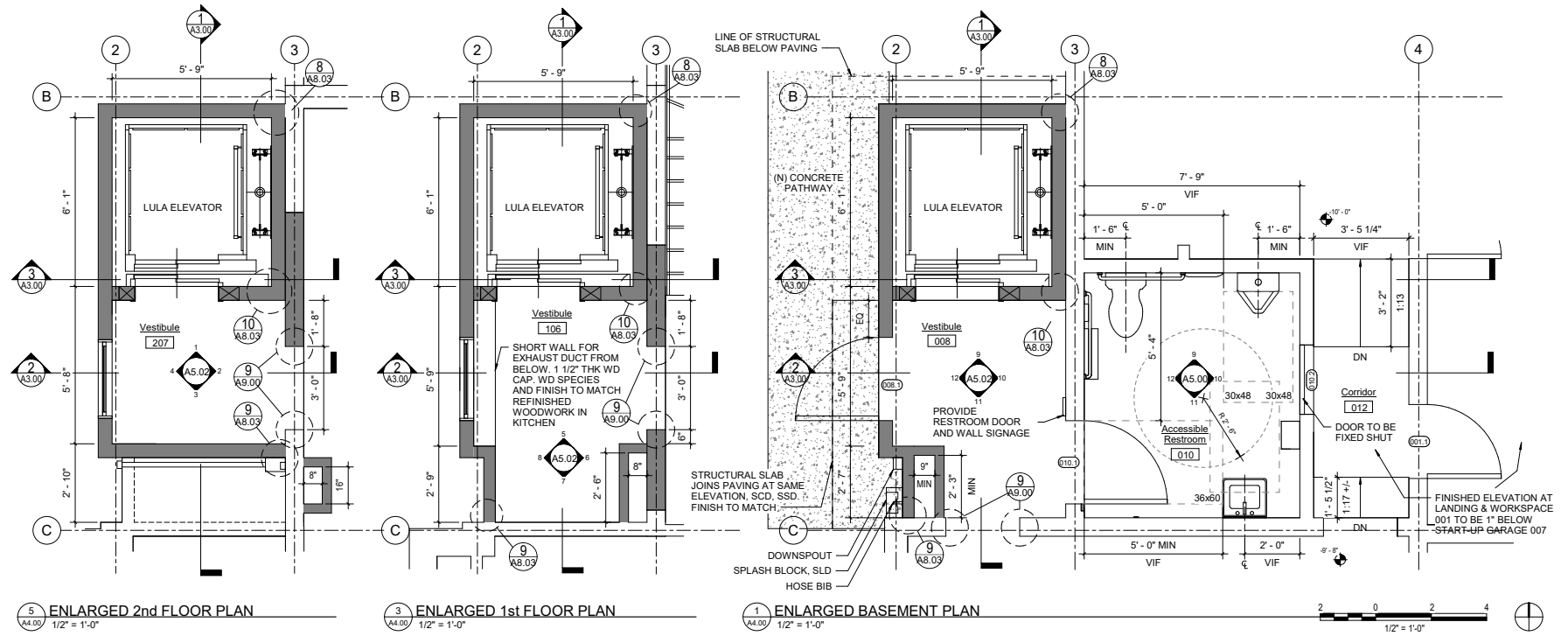
CONSERVATION LEGEND

- REPAIR CRACK IN STUCCO
- REPLACE DETERIORATED WOOD ELEMENT
- CLEAN HEAVY SOILING OR BIOGROWTH
- PATCH HOLE AT PREVIOUS CONDUIT OR ATTACHMENT
- REMOVE AND REPLACE PREVIOUS STUCCO PATCH TO MATCH HISTORIC
- APPLY WATERPROOFING COAT TO (E) HORIZONTAL PROJECTIONS
- REPAIR SPALL OR LOSS IN STUCCO

Exterior Elevations showing facade repair treatments. Elevator tower addition boxed in yellow.



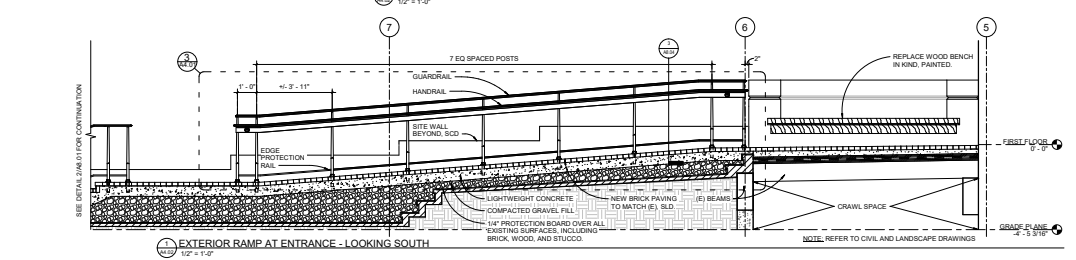
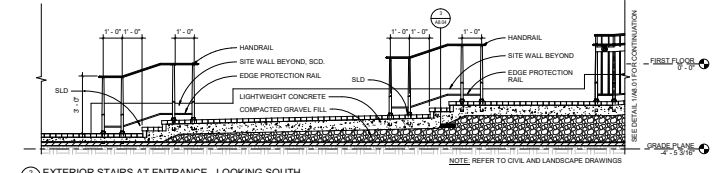
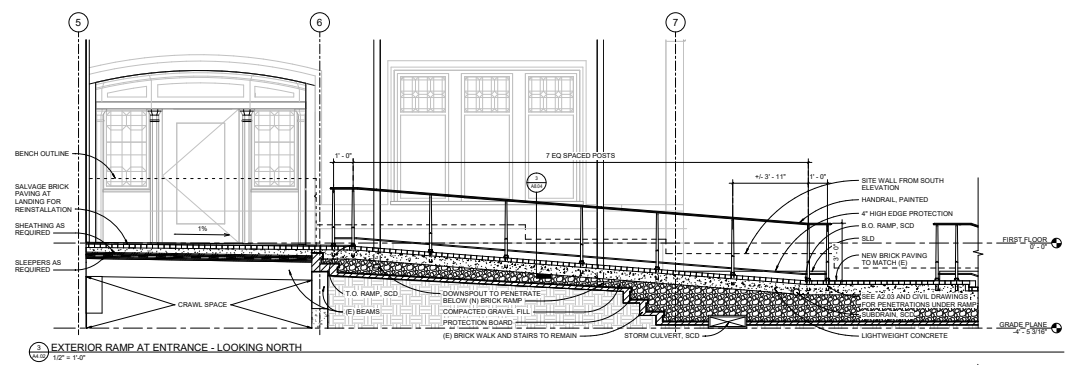
Photograph of the east elevation. Shaded yellow region indicates location of the new elevator tower addition.



Enlarged plans of elevator tower.

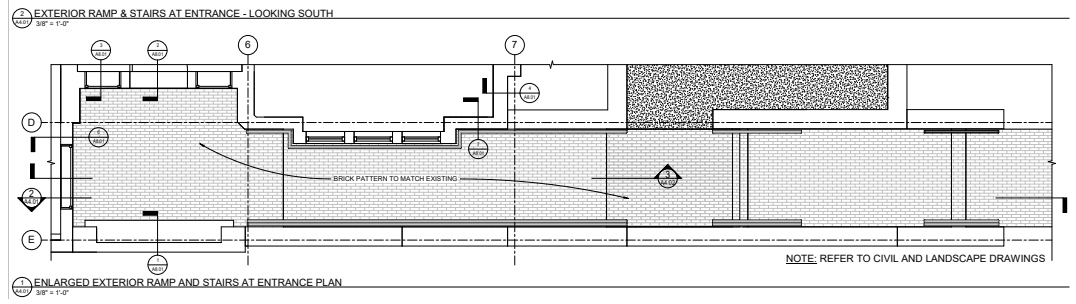
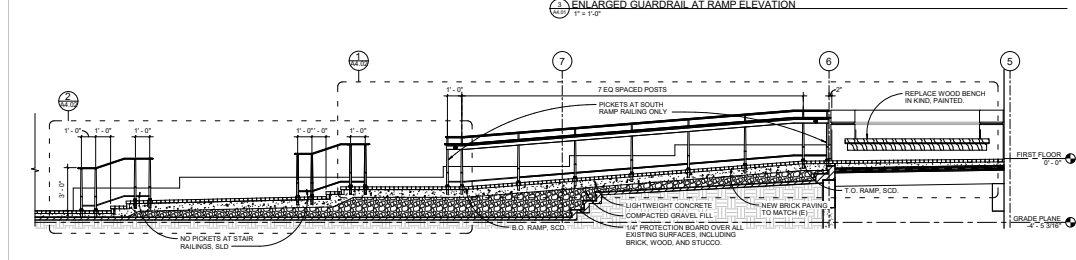
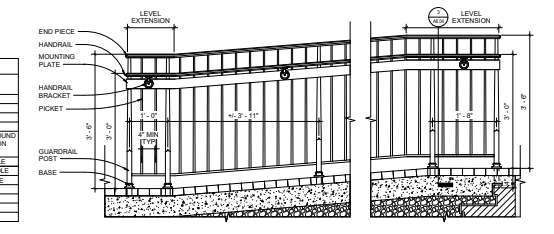


Photograph of the existing entry pathway.



RAILING SCHEDULE					
PART	MFR.	MATERIAL	FINISH	NAME / PART #	DIMENSIONS
HAND RAIL	JULIUS BLUM	CARBON STEEL	PAINT	HANDRAIL MOLDING 84428	1-1/8"HP CROSS-SECTION
GUARDRAIL	JULIUS BLUM	CARBON STEEL	PAINT	HANDRAIL MOLDING 84441	2-1/4" CROSS-SECTION
RAILING BRACKET	JULIUS BLUM	CARBON STEEL	PAINT	BRACKET T 8381	2-3/4" BASE PLATE
SPINDLE	JULIUS BLUM	CARBON STEEL	PAINT	ROUND SPINDLE 8333 OR SR1	1-1/2" DIA
POST - BOTTOM EXTENSION REQUIRED FOR EMBELEMANT	JULIUS BLUM	FORGED STEEL	PAINT	3314L	1-1/2" SQUARE BOTTOM, T-Round TOP, 40" TALL PLUS EXTENSION AS NEEDED
BASE AT SPINDLE	JULIUS BLUM	MALLEABLE IRON/STEEL	PAINT	SQUARE HOLE BASE 8558	3" WIDE W/ 1-1/2" SQUARE HOLE
BASE AT SPINDLE	JULIUS BLUM	TURNED STEEL	PAINT	ROUND HOLE BASE 8557	1-1/2" WIDE W/ 2" ROUND HOLE
DECORATIVE END PIECE	JULIUS BLUM	MALLEABLE IRON/STEEL	PAINT	END PIECE 4428E	SQUARE TERMINAL END PIECE
CONT. CHANNEL @ HAND RAIL		COLD ROLLED STEEL	PAINT		1-1/4" WIDE X 3/8" HIGH
CONT. CHANNEL @ GUARD RAIL		COLD ROLLED STEEL	PAINT		1-1/2" WIDE X 1/2" HIGH
BASE PLATE FOR SPINDLES		COLD ROLLED STEEL	PAINT		1-1/2" X 3/4"
PLATE FOR BRACKETS		COLD ROLLED STEEL	PAINT		3" X 3/4"

NOTE: REFER TO SPECIFICATIONS FOR PAINT FINISHING

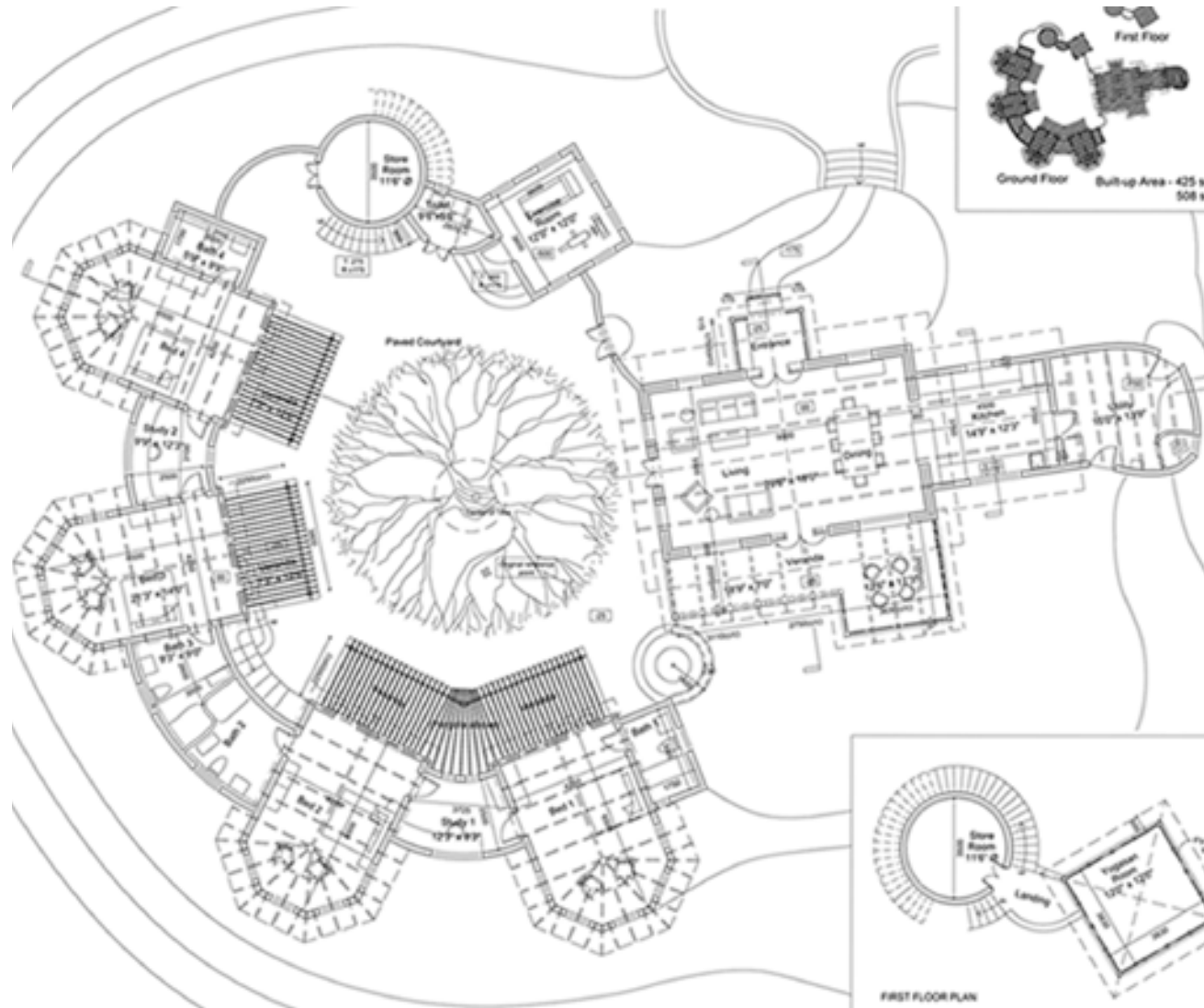


Section through new ramp at the entrance to create accessible route in to the building.

RAM VATIKA

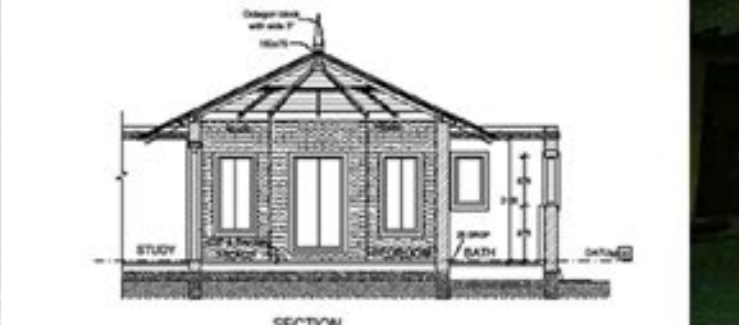
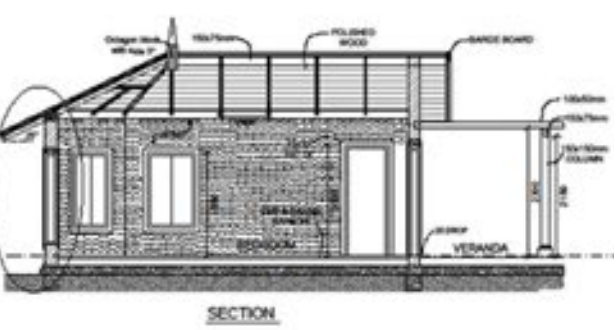
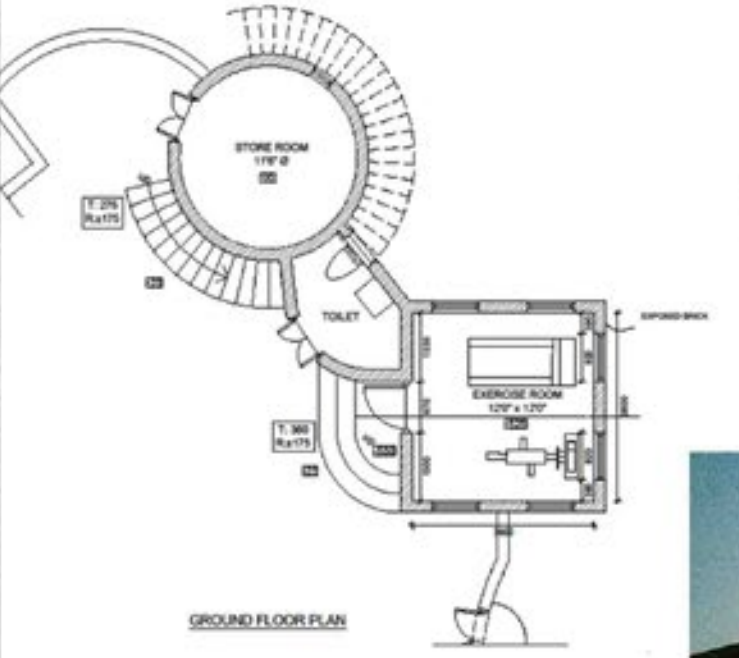
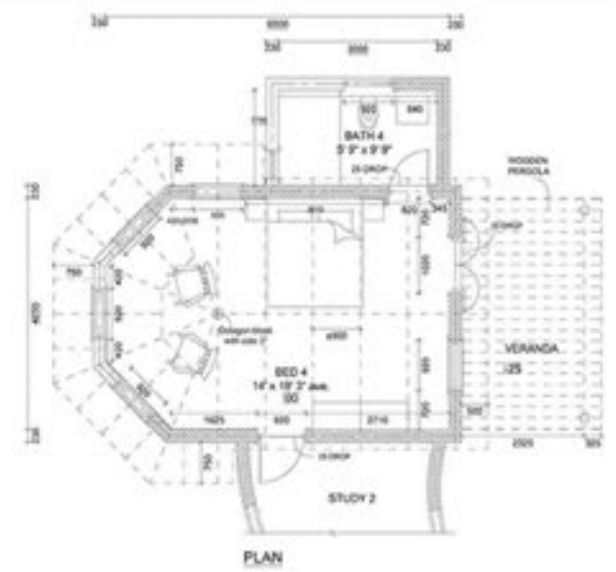
2015 INTERNSHIP
 SUMMER HOUSE
 KAMAL MANGALDAS ARCHITECTS

The project brief dictated a summer house for family of 6 in the outskirts of Ahmedabad. My role was to create presentation drawings for the client and plan drawings for the civil engineer. Along side I made concept models, visited sites and supervised the execution of interior designs





Construction Phase



CITY CENTER, BHOPAL

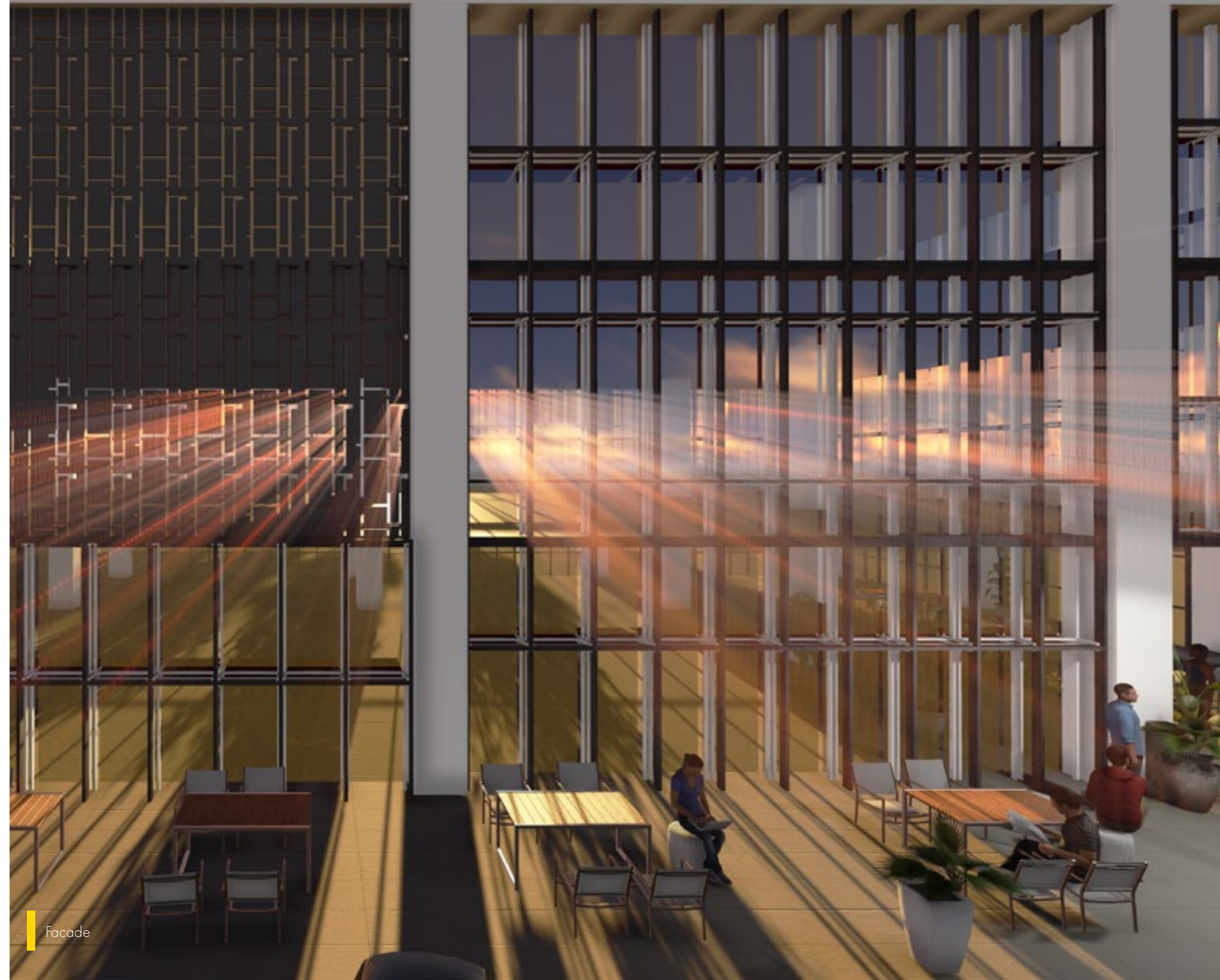
WINTER 2016

INSTRUCTOR : SUKANTA MAJUMDAR

A commercial complex (retail and offices) in the heart of the city is bound to become a prominent public space. The thesis project delved into the research of social, healthy and self-sustaining public spaces in the Indian context. The research stemmed from *The Social Life of Small Urban Spaces* by William H. Whyte.

The concept of 'public' is rich in meaning and is used in a wide range of contexts. 'Public', as an adjective, signifies 'of or concerning the people as a whole, 'open to all', accessible to or shared by all members of the community', performed or made openly and 'well-known' (Gove 1976; Makins 1998).

The project began with site, context and building codes research. Behavior and activity patterns dictated the programming of spaces.



Facade

SYNOPSIS

WHAT IS THE PROJECT?
 THE PROJECT AIMS TO OFFER THE PEOPLE OF BHOPAL A DYNAMIC LIBERTY AND WORK ENVIRONMENT. IT WILL HELP BUILD THE IMAGE OF THE CBD AND WILL BE AN ADDED PUBLIC SPHERE IN THE CITY. THIS MIXED USE DEVELOPMENT WILL INCLUDE OFFICE SPACES, RETAIL, CULTURE, DINING PLACES AND OUTDOOR PUBLIC SPACES.

WHY DO WE NEED THIS?
 THE CONCEPT OF MIXED USE DEVELOPMENT IS TO COMBAT THE ISSUES THAT ARISE DUE TO SEGREGATED PLANNING. BRINGING DIVERSE ACTIVITIES IN ONE AREA INCREASE THE LIVABILITY, SAFETY, WALKABILITY OF THE AREA. THIS CAN PROVIDE AS A PLATFORM FOR CITIZENS AND ALSO CONTRIBUTE IN STRUCTURING THE SURROUNDING AREAS.

WHO ARE THE USERS?
 THE SOLE PURPOSE OF THIS PROJECT IS TO BRING IN A DIVERSE CROWD AND MAKE IT A HUB. THERE WILL BE OFFICE GOERS, SHOPPERS, CHILDREN, STUDENTS, RESIDENTS FROM THE NEIGHBOURHOOD, ETC. THE BUILT SPACES WILL BE USED BY THE DIRECT USER WHEREAS THE OPEN SPACES WILL BE OPEN TO ALL. THIS BECOMES NECESSARY IN ORDER TO MAKE A MIXED USE PROJECT'S AIM.

LOCATION

JAWAHAR CHOKRA
 BHADRHADA ROAD
 TO POLYTECHNIC
 ROSHANPURA ROAD
 MAIN ROAD 1
 MAIN ROAD 2
 TO MANE

THE SITE IS LOCATED IN SOUTH LT NAGAR, BHOPAL AND CLOSE TO THE POPULAR NEW MARKET AND MAJULI. CURRENTLY THIS AREA HAS LOW RISE GOVERNMENT HOUSING THAT WILL SOON BE DEMOLISHED TO MAKE WAY FOR NEW HOUSING AND COMMERCIAL HUBS. ACCORDING TO THE BHOPAL METRO MAP A STATION IS PROPOSED DIAGONALLY OPPOSITE TO THE SITE.

SOURCE: GOOGLE EARTH/IMAGERY

SOURCE: SHC HEERE

ACTIVITY NODES

NEW MARKET - 0.5 KM
 THE VERY POPULAR MARKET THAT PROVIDES ON A CITY LEVEL HAS LATTERS, SHOP/CLINICS, INFORMAL SHOPS, A TEMPLE, A MOSQUE. IT HAS BECOME A REFERENCE POINT FOR ALL CITY DWELLERS.

MAJULI - 0.8 KM
 THE MT OF THE STATE THAT ENROLLS ABOUT 4000 STUDENTS YEARLY. THE CAMPUS HOSTS THEM AND THE STAFF. EVENTS HELD BY THE COLLEGE IS VISITED BY MANY FROM THE CITY AND OUTSIDE. THIS ACTING LIKE OTHER FOCAL POINT IN THE CITY.

BRIGHT CIRC - 0.45 KM
 THIS COMPLEX IS A MIXED USE WHERE A NUMBER OF POPULAR RESTAURANTS SUCH AS SAGAR GARE FUNCTION. IT IS A MAJOR MAGNET FOR STUDENTS. THE COMPLEX HAS OFFICE CHAMBERS, SHOPS AND RESIDENTIAL TOWERS.

TANJA TOPE STADIUM - 0.25 KM
 THE MULTI PURPOSE STADIUM AND IS THE MAIN STADIUM IN THE CITY AS THE DIRECTORATE SPORTS AND YOUTH WELFARE BUREAU HERE. THEY HOST STATE LEVEL SCRAMBLING. A NUMBER OF ATHLETES VISIT THIS PREMISE AND WILL BE A PART OF THE GROUP THAT THE PROJECT WILL CATER TO.

JAN TEMPLE - 0.25 KM
 THE DEKAARER JAN TEMPLE IS THE LARGEST IN THE CITY AND IS THRONED BY FOLLOWERS FROM ALL PARTS OF THE CITY. THEY HOLD RELIGIOUS EVENTS THROUGHOUT THE YEAR.

FLATINUM PLAZA - 0.20 KM
 THE COMPLEX IS A MIXED USE WHERE A NUMBER OF POPULAR RESTAURANTS SUCH AS SAGAR GARE FUNCTION. IT IS A MAJOR MAGNET FOR STUDENTS. THE COMPLEX HAS OFFICE CHAMBERS, SHOPS AND RESIDENTIAL TOWERS.

FARMER MARKET - 0.30 KM
 THE DEKAARER JAN TEMPLE IS THE LARGEST IN THE CITY AND IS THRONED BY FOLLOWERS FROM ALL PARTS OF THE CITY. THEY HOLD RELIGIOUS EVENTS THROUGHOUT THE YEAR.

EXISTING ORT PROPOSED TANKS WILL BE 18-20 M HIGH. THE NEW ORT WILL BE SITUATED BEHIND THE STADIUM AND WILL HAVE A CAPACITY OF 300 SL.

THE SCHEME ALSO MENTIONS THAT BHADRHADA ROAD AND ROSHANPURA MANE ROAD DEFINE AN URBAN EXPERIENCE THROUGH THEIR SKYLINE.

ROADS AROUND THE SITE WILL BE WIDENED TO 30 M ON THE SIDE AND 40 M ON THE FRONT.

WATER, ELECTRICITY AND SEWERAGE WILL BE CONNECTED TO THE URAN INFRASTRUCTURE. SUBSTATION AND ELECTRICITY BOARD. ELECTRICITY LAYOUT HAS NOT BEEN PROPOSED YET BUT THE POSITIONS OF THE EXISTING SUBSTATIONS WILL NOT CHANGE.

PROPOSED METRO STATION FOR LT NAGAR WILL COME UP HERE.

ROADS AROUND THE SITE WILL BE WIDENED TO 30 M ON THE SIDE AND 40 M ON THE FRONT.

WATER, ELECTRICITY AND SEWERAGE WILL BE CONNECTED TO THE URAN INFRASTRUCTURE. SUBSTATION AND ELECTRICITY BOARD. ELECTRICITY LAYOUT HAS NOT BEEN PROPOSED YET BUT THE POSITIONS OF THE EXISTING SUBSTATIONS WILL NOT CHANGE.

PROPOSED METRO STATION FOR LT NAGAR WILL COME UP HERE.

URBAN FORM

AN ENCLOSED SPACE FORMED BY G+3/4 BUILDING

SECTION AT NEW MARKET

SECTION AT SAMANVAKTA BHAVAN

SECTION AT STADIUM

THE ENCLOSED SPACES TRANSFORMS INTO A SEMI CLOSED SPACES (PART OF SAMANVAKTA BHAVAN) AND AFTER BANK THROUGH THESE BUILDINGS ARE HIGH SET BACKS DUE TO THEIR LARGE SET BACKS THAT RENDER IT INTO A SEMI CLOSED SPACE.

THIS IS AGAIN SEMI CLOSED DUE TO CBD IN FRONT OF THE STADIUM. OTHER WIDE THIS AREA SEEMED OPEN DUE TO THE SINGLE STOREY GOVT. HOUSING. THE NAKKE PERCEP. SUNCTION ACTED AS A MANNER TO THAT TRANSITION.

BUILDING BYELAWS

ACCORDING TO THE SCHEME THE LAND USE IS MOSTLY FOR RESIDENTIAL PURPOSES WITH COMMERCIAL USE ALONG THE MAIN ROAD TOWARDS MANE. THE WIDTH OF THE COMMERCIAL STRIP IS 50 M AND ARE COMPENSATORY LAND PARCELS UNDER THIS SCHEME. THIS PLAN HAS NOT DEVIATED FROM THE LAND USE PLAN OF BHOPAL DEVELOPMENT PLAN 2005.

NO.	AREA (SQ. METERS)	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA	PERCENTAGE OF TOTAL AREA
1	1000	10	10	10	10	10	10	10	10
2	2000	20	20	20	20	20	20	20	20
3	3000	30	30	30	30	30	30	30	30
4	4000	40	40	40	40	40	40	40	40
5	5000	50	50	50	50	50	50	50	50
6	6000	60	60	60	60	60	60	60	60
7	7000	70	70	70	70	70	70	70	70
8	8000	80	80	80	80	80	80	80	80
9	9000	90	90	90	90	90	90	90	90
10	10000	100	100	100	100	100	100	100	100

SOURCE: DRAFT SCHEME PLAN REPORT

GROUND COVERAGE - 13%
 FLOORS - 19
 HEIGHT - 60

FRONT SETBACK - 21 M
 SIDE SETBACK - 6M
 F.A.R - 2.5

GROUND COVERAGE - 24%
 FLOORS - 9
 HEIGHT - 30

SLOPE IS A GENTLE

RETAINING MAJOR TREE AND GETTING WAY WIDENING AND SMALL FAI GROWING TREES

20% GREEN POCKET WILL BE DEMARCATED A LAYOUT LEVEL GREEN

TOWARDS NEW MARKET

TIN SHED BUS STOP MY 1 AND PENKAT BUS STOP THESE POINTS

PREDOMINANT WIND DIRECTION

SCALE - 1:1000

FIGURE GROUND

LT NAGAR AREA HAD BEEN DEVELOPED AS A HOUSING COLONY FOR THE STAFF HOUSING OF THE GOVT. IN ADDITION, THE PLANNING NORAS OF LOW RISE AND LOW DENSITY PROVIDED LARGE OPEN AREAS FOR INDIVIDUAL PLOTS IN THE FRONT, REAR AND SIDE.

THE REDENSIFICATION SCHEME HAS BEEN DRAFTED BY BHOPAL DEVELOPMENT AUTHORITY (B.D.A) UNDER THE GUIDELINES FOR REDENSIFICATION OF THE GOVERNMENT OF M.P. THE PROCESS OF SCHEME FORMULATION FOR REDENSIFICATION WAS INITIATED BY THE B.D.A IN DECEMBER 2012 AS A PART OF CONSULTANCY ASSIGNMENT FOR PREPARATION OF SCHEMES FOR SUSTAINABLE DEVELOPMENT OF BHOPAL.

DRAFT SCHEME PLAN REPORT, REDENSIFICATION FOR NCR AND SOUTH LT NAGAR, BY B.D.

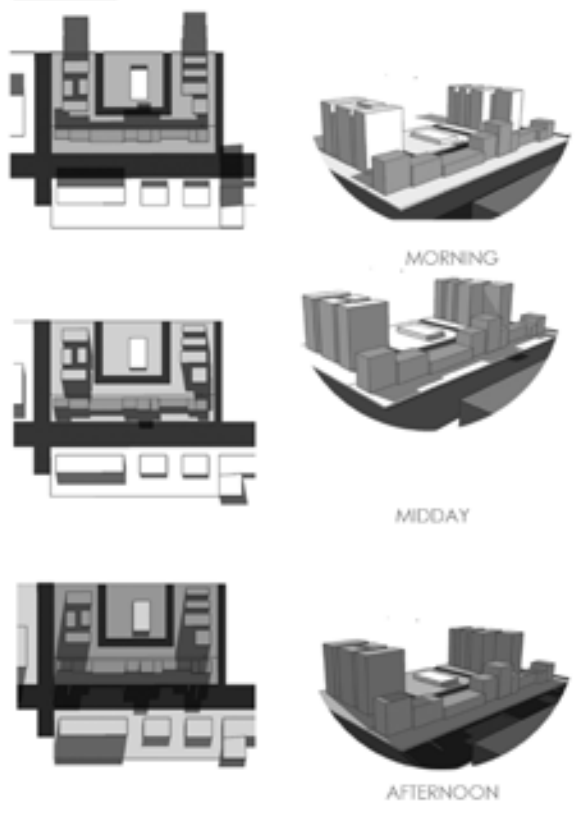
1995 2004 2020

OFFICES CULTURE RETAIL

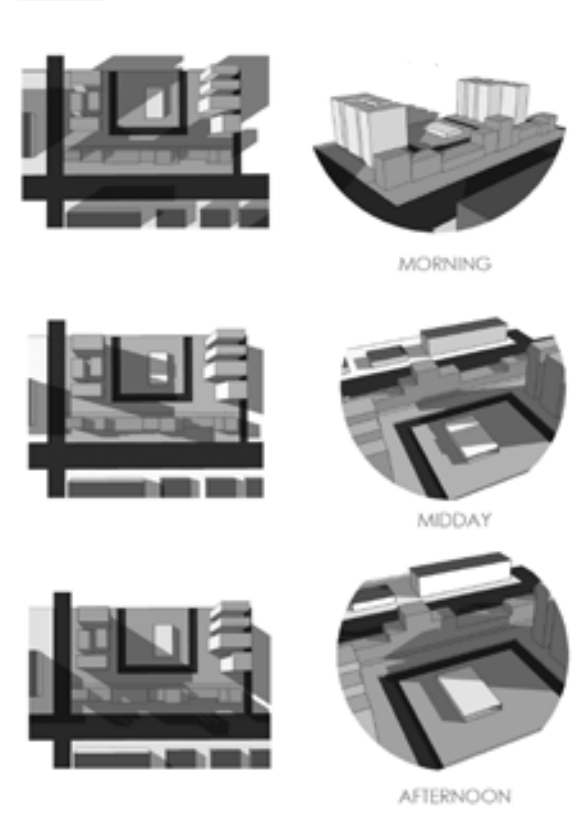
Context and bye-law research.

SUN PATH

SUMMER



WINTER

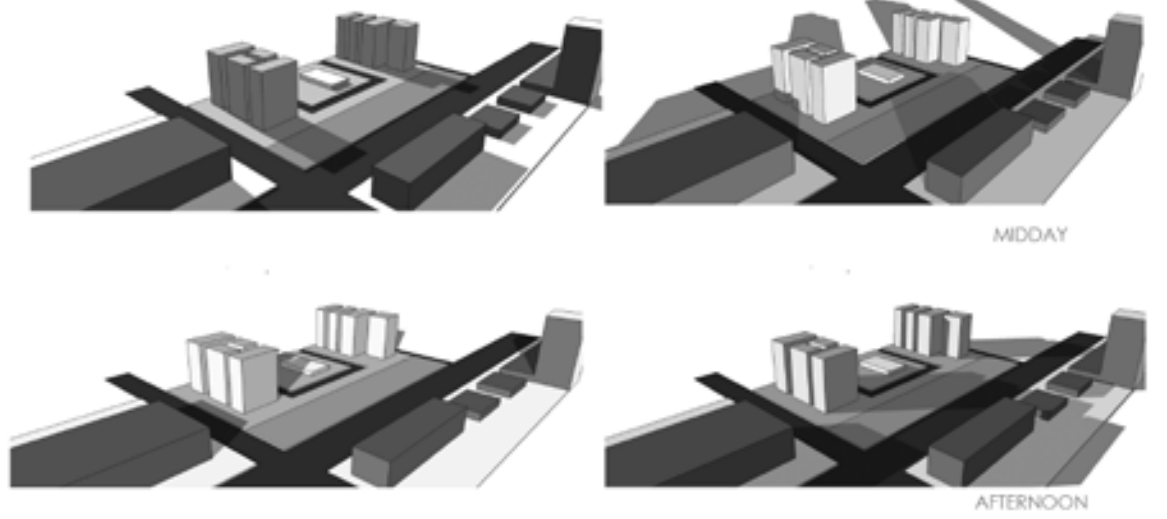


SHADOWS

THE SAME PORTION OF LAND GETS SHADED IN THE HOT AFTERNOON AS WELL AS BASKS IN SUN RAYS DURING WINTER AFTERNOON. SUCH SPACES ARE FAVOURABLE TO DESIGN PLAZAS.

FOR OPTIMISING ENERGY CONSUMPTION AREAS SUBJECT TO PROLONGED HEAT CAN BE USED FOR PARKING SPOTS AND THE OTHERS FOR OFFICES THAT OPERATE DURING THE DAY

TALL BUILDINGS AROUND THE SITE HELP SHADE THE SITE FOR MOST PART OF THE DAY. THE LONGER SIDE FACES EAST-WEST. IT IS IMPORTANT TO SHADE THE WESTERN PART

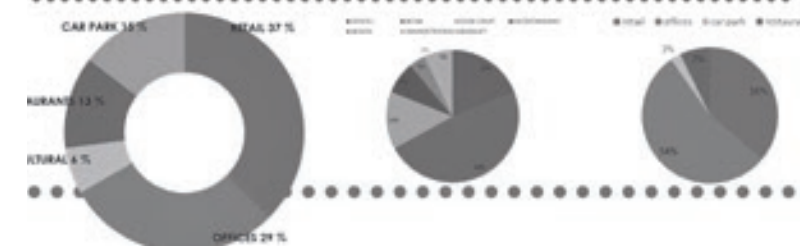


	SHRISTI CBD	KOLKATA CITY CENTER	STANDARDS	AREA PROGRAM
PLOT AREA	40,200 SQ M	16,700 SQ M		7,000 SQ M
BUILT UP	2 LAKH SQ M	30,000 SQ M		25,000 SQ M
RETAIL SPACES	46,000 SQ M	24,000 SQ M		5,500 SQ M
F.S. 1	30 SQ M 480 UNITS	40 SQ M	F.S. 1 - JEWELLERY STORES	SMALL STORES: 35 UNITS OF 35 SQ M AREA EACH = 1225 SQ M
F.S. 2	90 SQ M 35 UNITS	80 SQ M	F.S. 2 - RETAIL STORES WOODLAND ARROW	LARGE STORES: 25 UNITS OF 100 SQ M AREA EACH = 2500 SQ M
F.S. 3	105 SQ M 35 UNITS	100 SQ M	F.S. 3 - OUTLET STORES BURLINCE WESTSIDE	3 UNITS = 800 SQ M
ANCHOR STORES	---	---	---	1 UNIT = 800 SQ M
SUPERMARKET	---	800 SQ M	---	2.4 M
WIDTH OF CORRIDOR	2.4 M	---	---	1 UNIT / FLOOR
TOILETS	1 UNIT MEN: 5 URINALS 2 TOILETS WOMEN: 5 TOILETS 5 ON EVERY FLOOR	---	---	2 WELLS BLOCK EGRESS 3 M
STAIR CASE	9 WELLS OF 12.5 SQ M EACH AT EVERY 25 M EGRESS 3 M	---	---	2 LIFTM BLOCK 2.5 X 2.5 M EACH
LIFTS	1 LIFT OF 4.25 SQ M AT EVERY 25 M	---	---	ONE SPACE PER 80 SQ M = 120 CARS
SERVICE SHAFTS	3 SQ M SHAFTS AT EVERY 25 M	---	---	
PARKING	SURFACE CAR PARK 540 UNITS	---	---	
SUBSTATION	1400 SQ M FOR 2 LAKH SQ M BUILT UP	---	---	

	SHRISTI CBD	KOLKATA CITY CENTER	STANDARDS	AREA PROGRAM
OFFICE SPACES	90,000 SQ M	5,500 SQ M	OPEN FLOOR PLAN CEILING HEIGHT - 4.2 M AFTER FALSE CEILING - 3.3-3.0 M STANDARD INDIVIDUAL SPACE = 8 SQ M FOR 8 PERSONS = 64 SQ M	7000 SQ M
F.S. 1	35.5 SQ M + 4.5 SQ M OF PANTRY AND SINGLE TOILET OCCUPANCY: 5 PERSONS NO OF UNITS: 4 FLOOR/UNIT	---	---	SMALL OFFICES 30 UNITS 800 SQ M
F.S. 2	48.75 SQ M + 4.5 SQ M OCCUPANCY: 8 PERSONS NO OF UNITS: 8 FLOOR/UNIT	---	---	MEDIUM OFFICES 5 UNITS OF 100 SQ M EACH 500 SQ M
F.S. 3	65.5 SQ M + 6.5 SQ M OF OCCUPANCY: 15-18 NO OF UNITS: 2 FLOOR/UNIT	---	---	LARGE OFFICES 6 UNITS OF 800 SQ M 4800 SQ M
ENTIRE FLOOR	EACH FLOOR - 700 SQ M ONE IT COMPANY TAKES 2 FLOORS FOR IT	---	---	RECEPTION = 100 SQ M
RECEPTION	80 SQ M RECEIVING/ 240 OFFICES	---	---	CONFERENCE ROOM 2 FOR 10 = 34 SQ M 1 FOR 20 = 40 SQ M
CONFERENCE ROOM	UNITS - 3	---	---	2.5 M
CAFETERIA	UNITS - 1	---	---	1 SPACE PER 70-50 SQ M OF SPACE = 100 CARS
WIDTH OF CORRIDOR	2 M	---	---	
LIFTS	4 IN EACH BUILDING 5.45 SQ M EACH	---	---	
STAIR CASE	4 IN EACH BUILDING EGRESS: 2.5 M	---	---	
PARKING	BASEMENT: 280 CARS	---	---	

RESTAURANTS

	CASE STUDY 1 (A)	CASE STUDY 1 (B)	STANDARDS	AREA PROGRAM
TYPE	ONE IN	CAFE/ICE CREAM PARLOUR	ONE IN	MIXED
AREA	400 SQ M INCLUDING OUTDOOR	40 SQ M	400 SQ M	TOTAL AREA = 3000 SQ M
NO OF SEATS	150 INCLUDING OUTDOOR	15 (INCLUDING OUTDOOR)	1.0 SQ M / PERSON IN NORMAL SEATING 1.8 SQ M / PERSON IN BANQUET	DINE IN - 5 UNITS 2200 SQ M
AREA/TABLE	2.5 SQ M (5 SEATERS)	1.2 SQ M (3-4 SEATERS)	VARIES IN SEATING TYPE SEE 9030-410	CAFFES AND SMALL RESTAURANTS UNITS - 13 = 800 SQ M
SIZE OF KITCHEN	80 SQ M	---	67 SQ M	PARKING = 1 CAR / 10 CUSTOMERS = 85 CARS
SIZE OF STORE	75 SQ M	6.5 SQ M	15% OF TOTAL FLOOR AREA	COMMON LOADING / UNLOADING BAYS FOR THE COMPLEX
TOILETS	EACH SINGLES 1M X 1.5 M	---	---	
RECEPTION	7.5 SQ M	---	---	



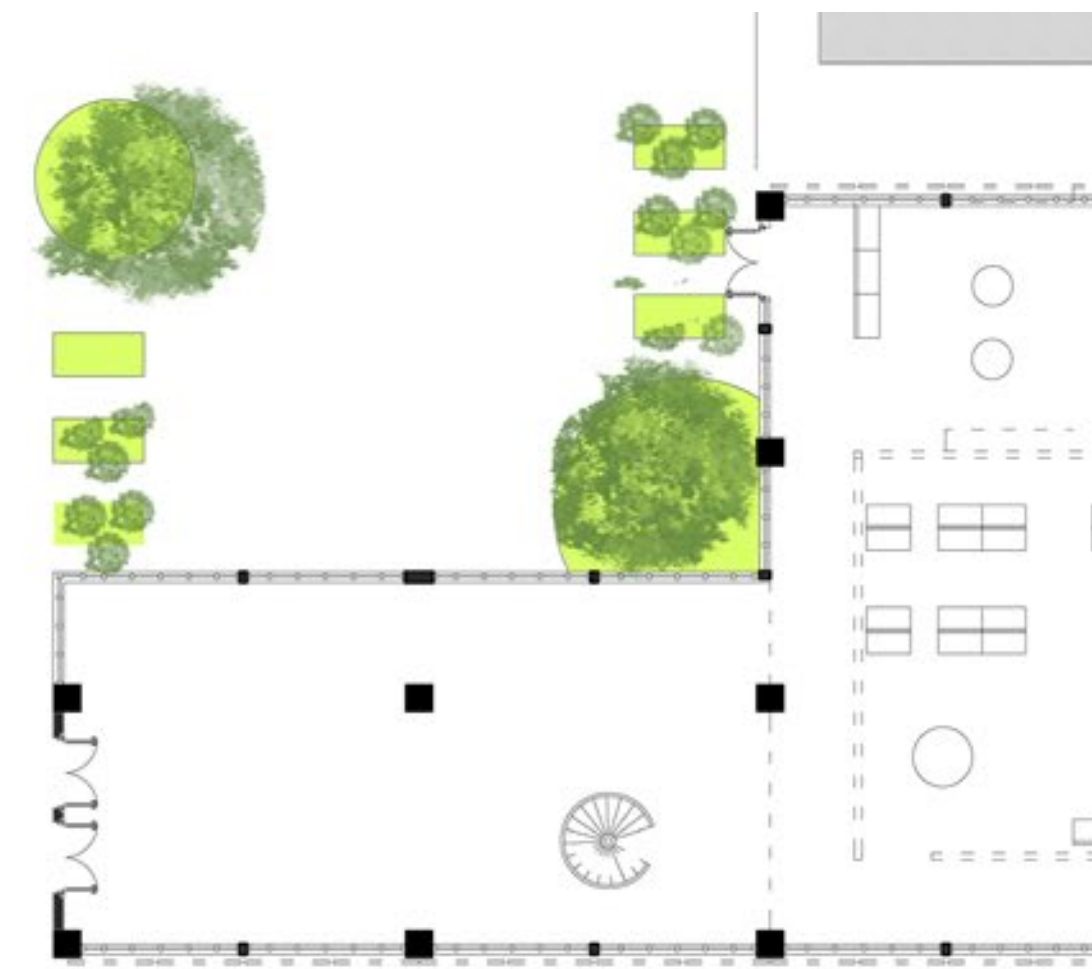
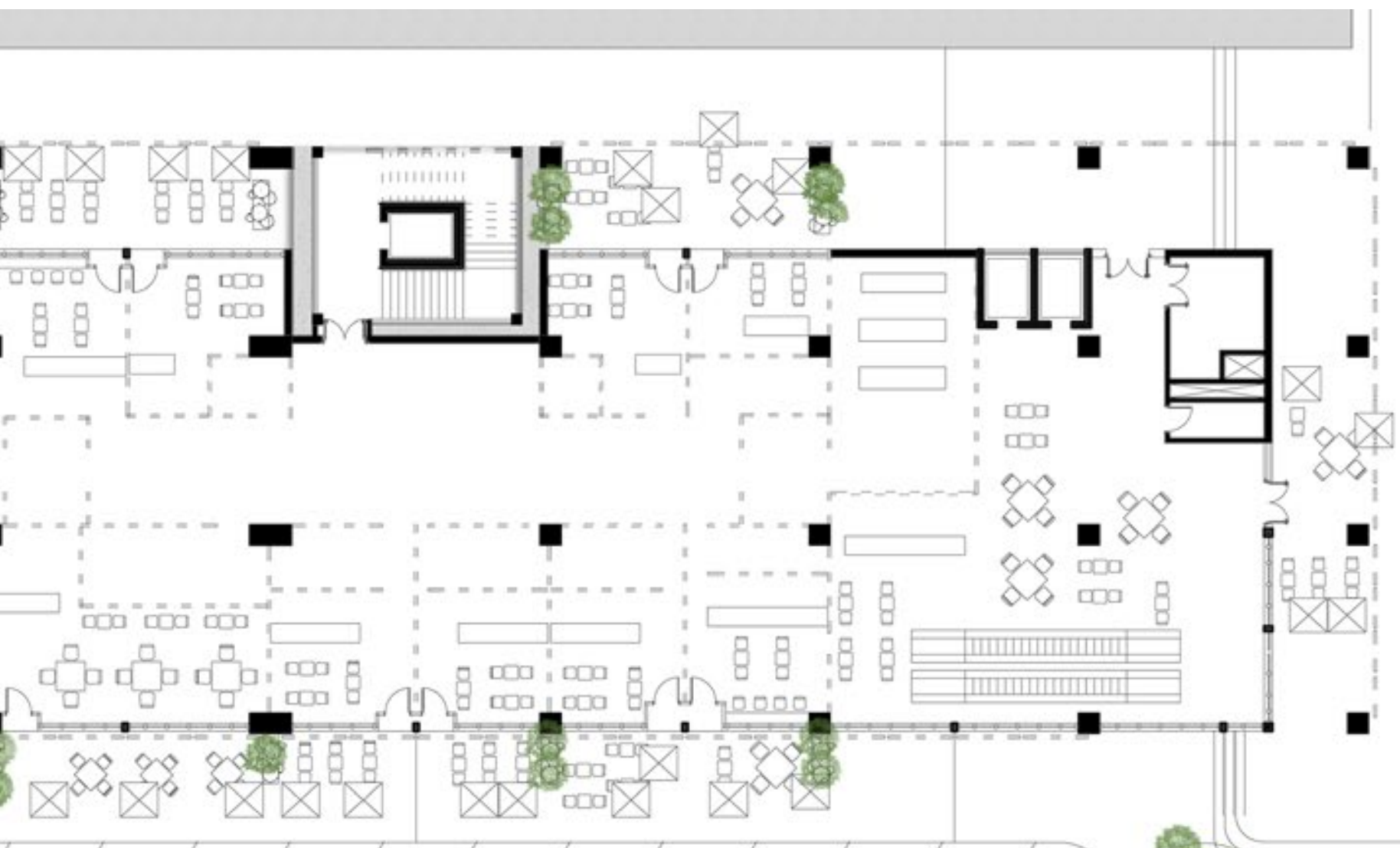
CAR PARK

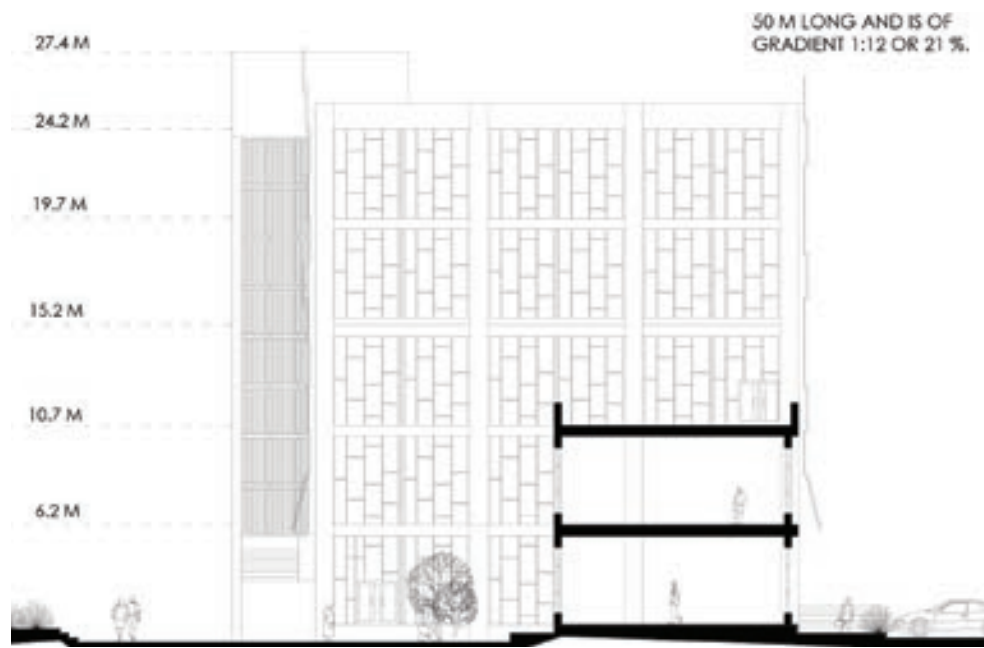
	Case Study 1	Case Study 2	Case Study 3	Standards/ Bye laws	Area Program
Type	basement	surface park	multistorey	3.5	Surface + Basement
Width of internal road	3.5 m	3.5 m	6m		Area Program
Number of cars	270/100 (per floor)	250	1		surface 100 basement 180/floor
Area per car	parking bay + circulation = 27sq m	30 sq m			surface = 30 sq m basement = 35 sqm
Two Wheelers	30				
Area vehicle	3.3 x 1.8 m			1.5 m	

RESTAURANTS

Seating Capacity	~250 persons around the fountain 20m x 20 m	max 3000	250 persons 20m x 20 m
No. of Access Points	Front accessed from the road, alleys going in/around the mall		multiple points
Toilets	shared with mall's parking area		
Car Park	1 car / three spectator parking area	100 surface car park = 100 (per sq m)	80 car bays

Ground Floor Plan: Barrier free spaces





Lateral Section



Front Elevation



Street View

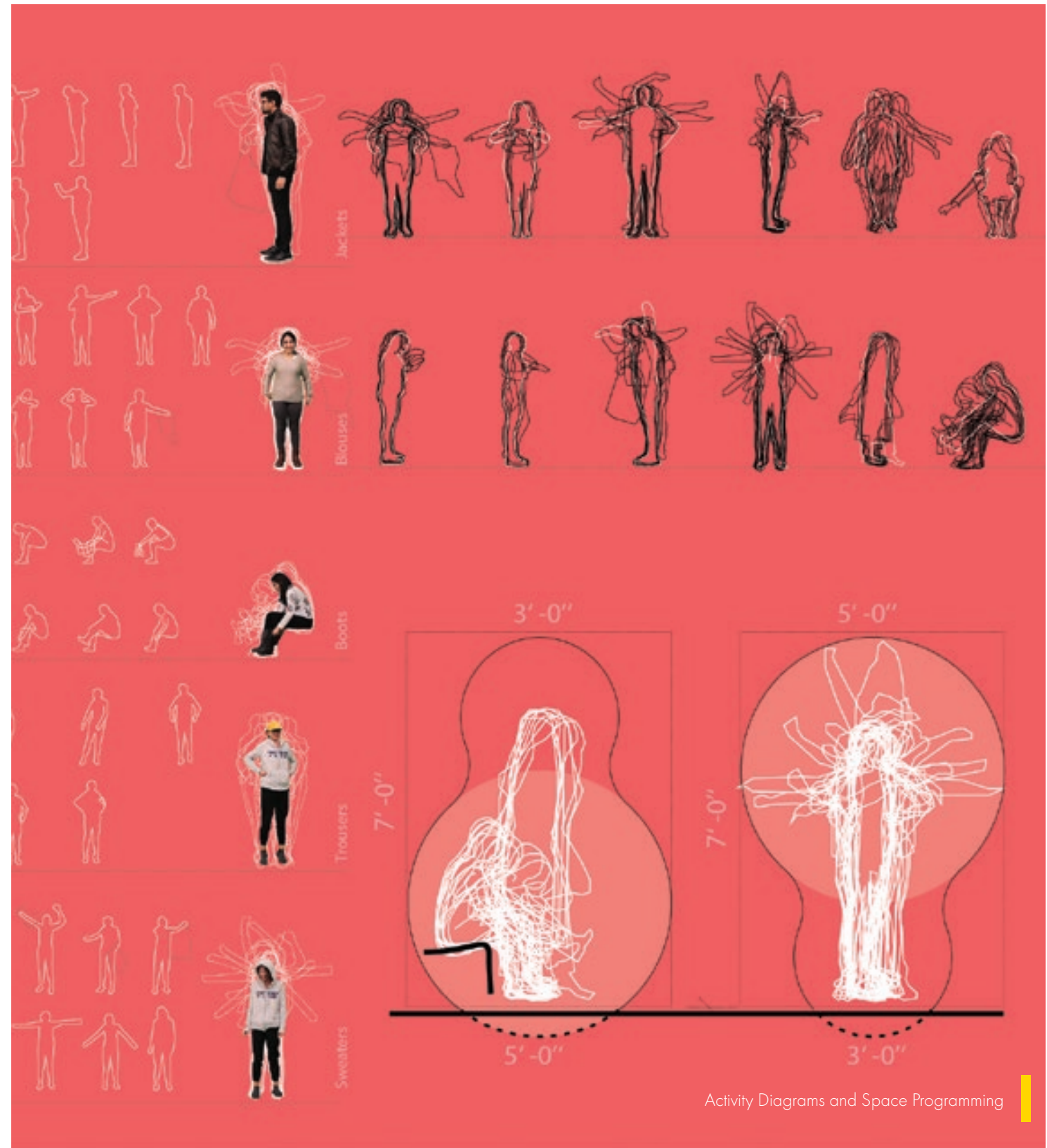
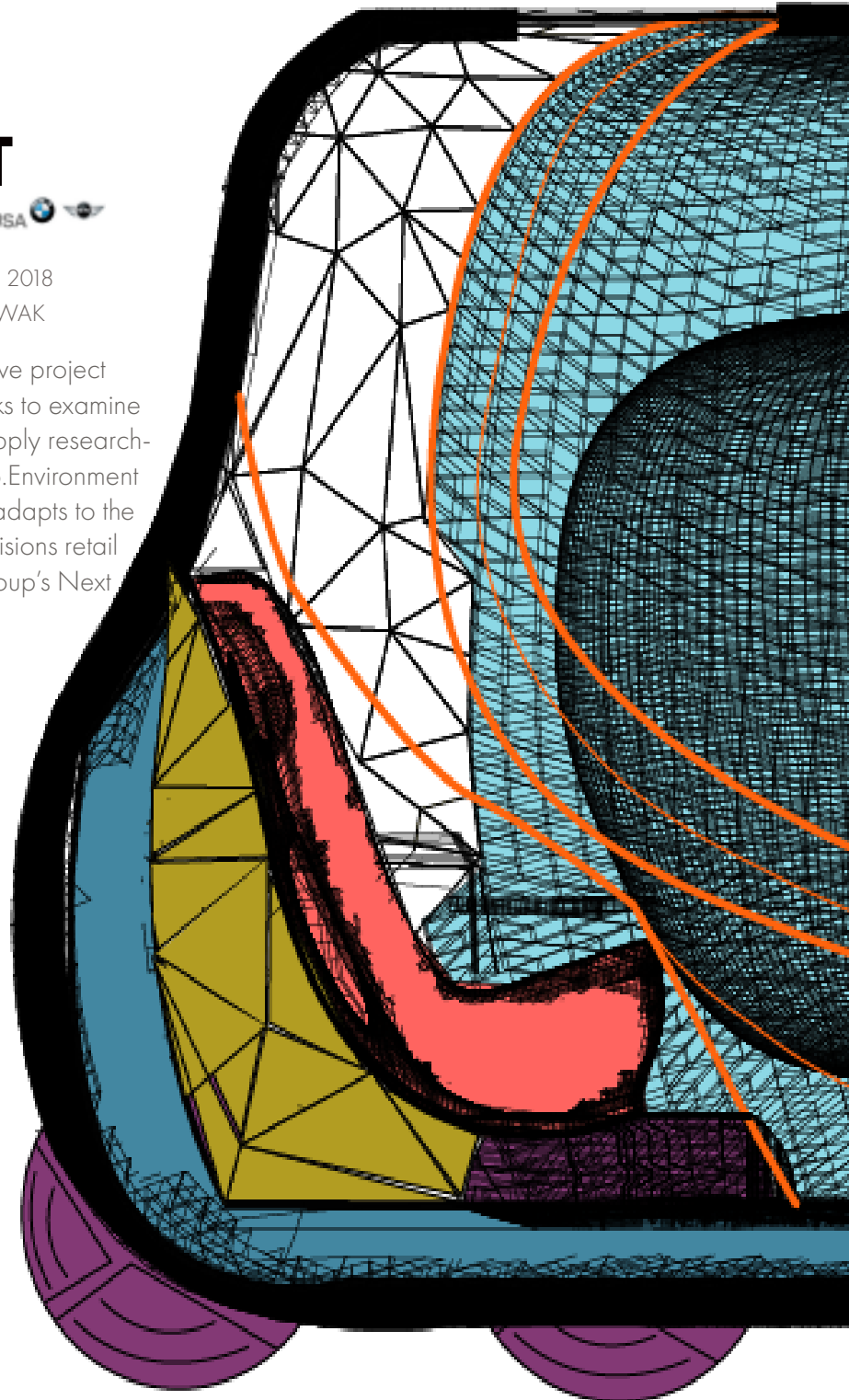


SHOP.LYFT

UCLA ASD SUPRA STUDIO BMW Group DesignworksUSA

TECHNOLOGY SEMINAR WINTER 2018
INSTRUCTOR : MARTA ANNA NOWAK

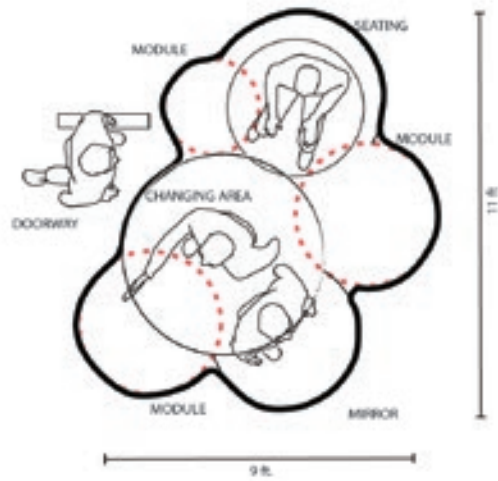
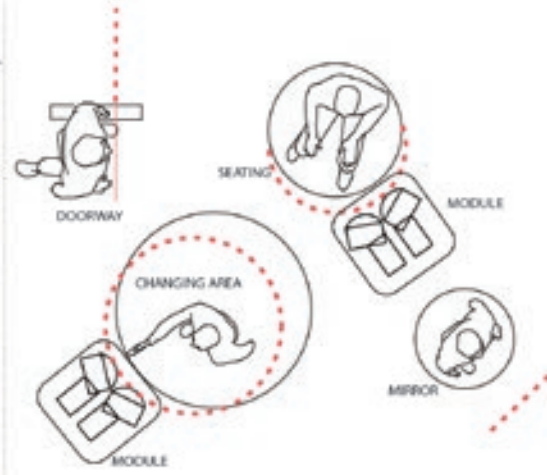
An exploratory and collaborative project with BMW Group DesignWorks to examine micro-mobile programs, and apply research-driven design ideas for an Auto.Environment that potentially transforms and adapts to the human occupant. Shop.Lyft envisions retail and aligns itself with BMW Group's Next 100 strategy.



PROGRAMMING | SECTION



PROGRAMMING | PLAN



1. Material 2. Clipping material texture 3. Diffusive surface treatment 4. Compressed structure



Your Ride Begins Here
00:00 (Office chatter and keyboard sounds) "Are you coming to the party tonight?" "No!" 00:16 00:21



00:21 (Music kicks in) "Summer was showing a gala that day, and he was at a loss for clothing." 00:29 "What if I've told you, you could shop on the go and make it to a party in time, ahead of all?" 00:32 00:37



00:42 "Welcome aboard ShopLyft, you're on the go shopping service." 00:45 00:48 "Sit back, relax, while we bring to you your very own world of style. Not to mention the plethora of possibilities." 00:51 00:54



01:02 "...all in the comfort of your own vehicle." 01:08 "...make shopping your cardio." 01:11 "...help the economy." 01:27 "...ShopLyft? Because whenever you can't buy Happiness, Didn't know how to go shopping..." 01:27



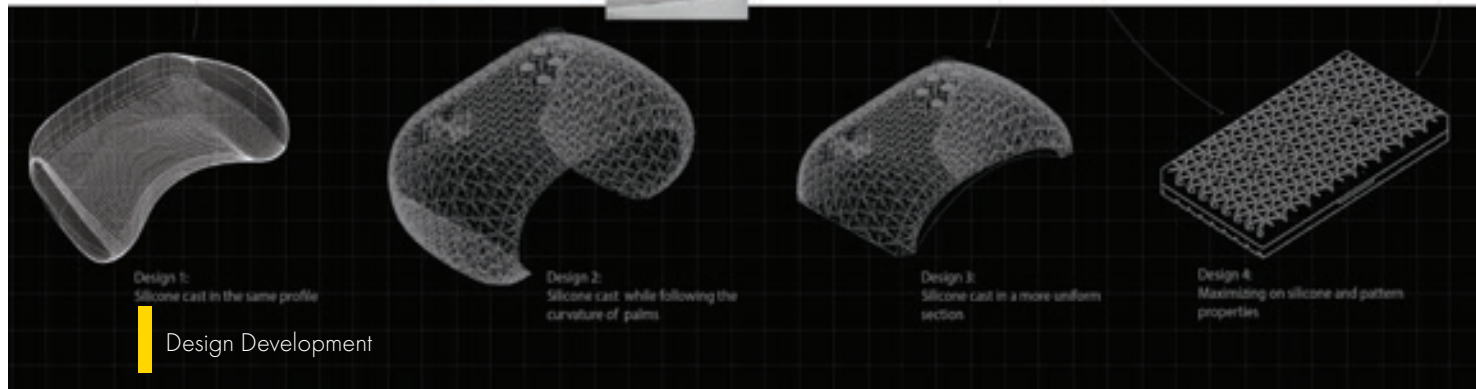
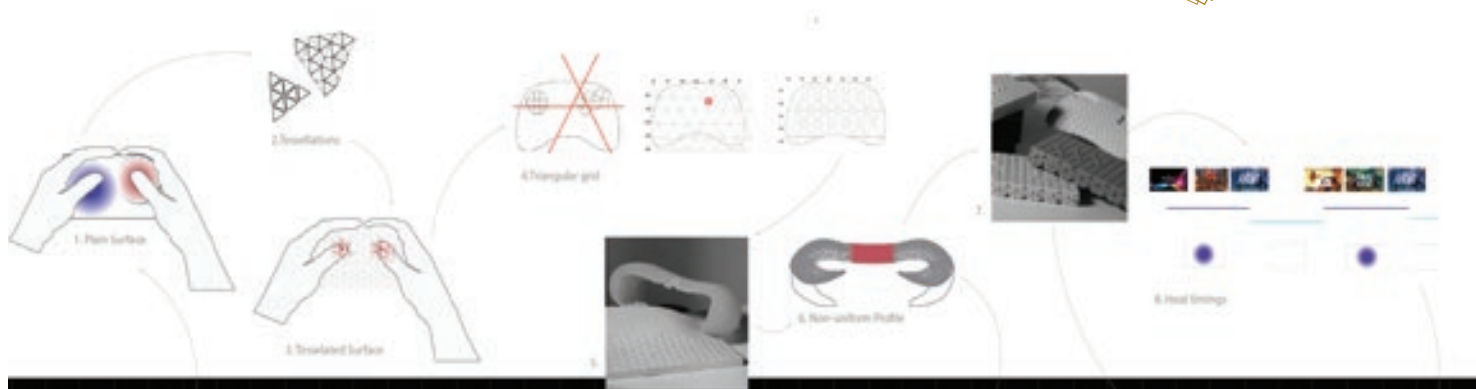
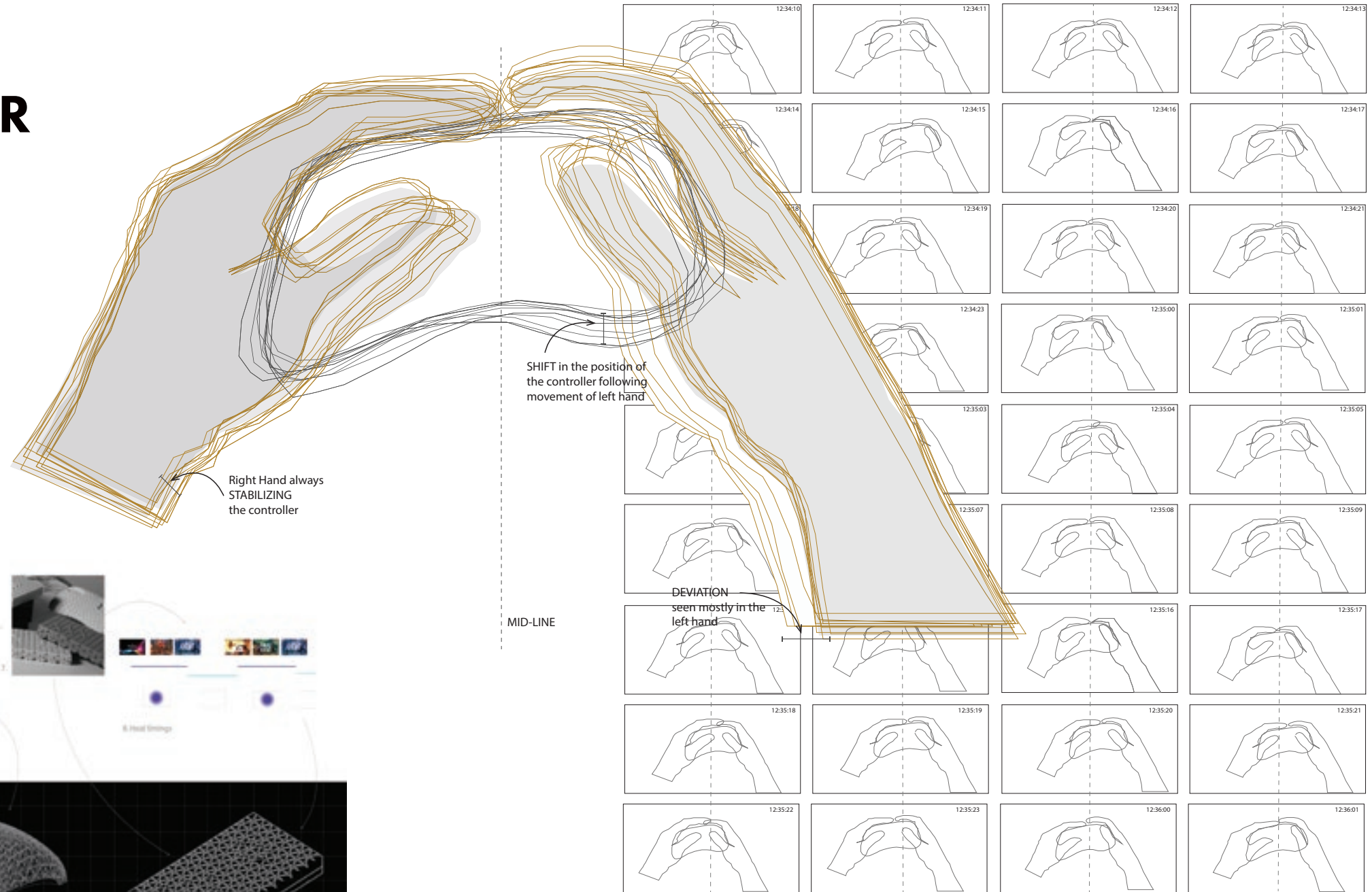
01:37 "...ShopLyft? Because there is no better way to walk you way, from office to party." 01:43 The End

PROSTHETICS: GAMING CONTROLLER



TECHNOLOGY SEMINAR FALL 2017
INSTRUCTOR : MARTA ANNA NOWAK

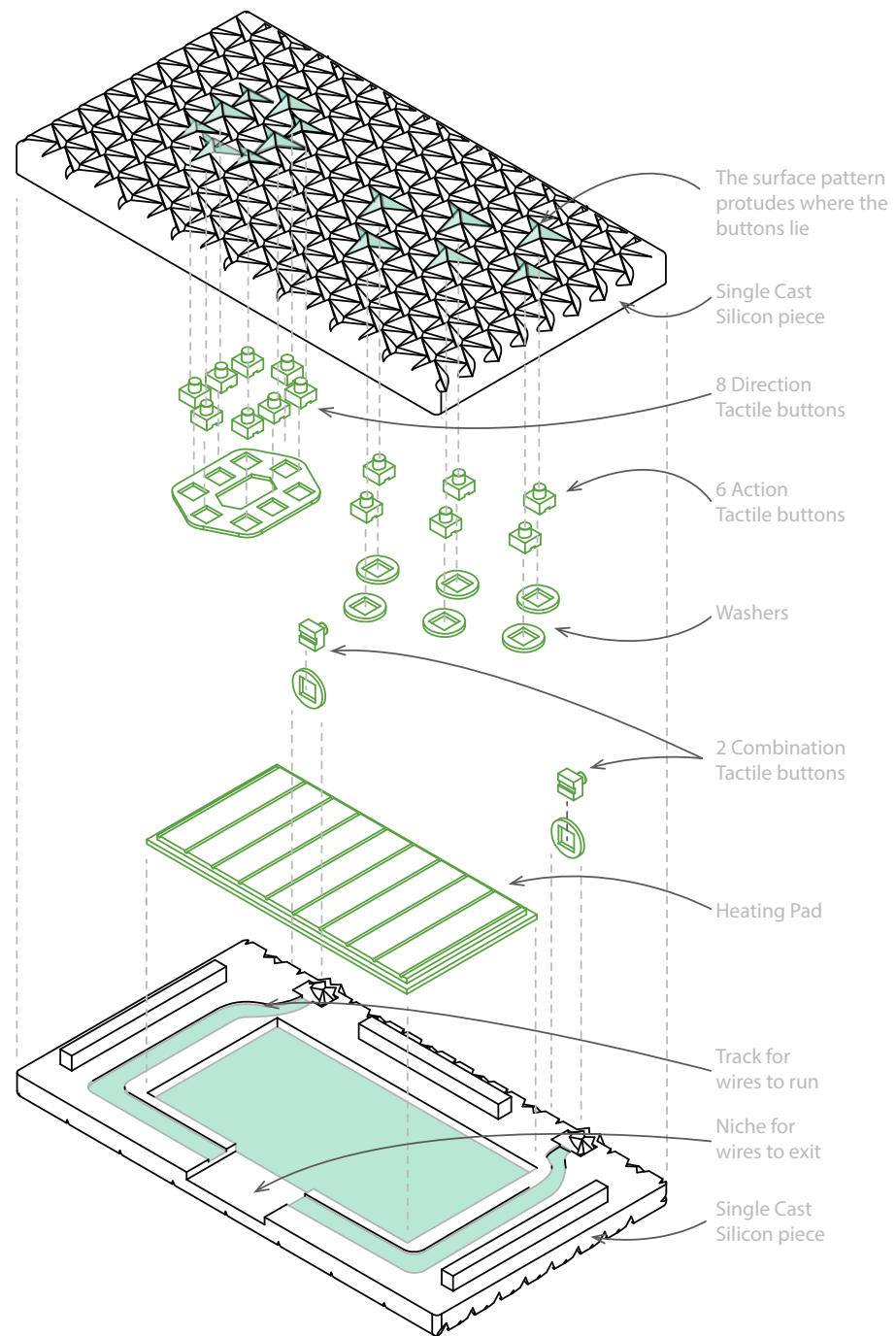
A project, sponsored by Red Bull, to develop a working game controller for their eSport High-Performance Division. The seminar study was on the prosthesis and the object (game controller) was seen as a bodily extension into virtual space. Students worked with eSports athlete Darryl S. Lewis, a.k.a Snake Eyez, to design a one-to-one prototype for him. Additionally, the design was informed by research in ergonomics, material performance, form and functionality.



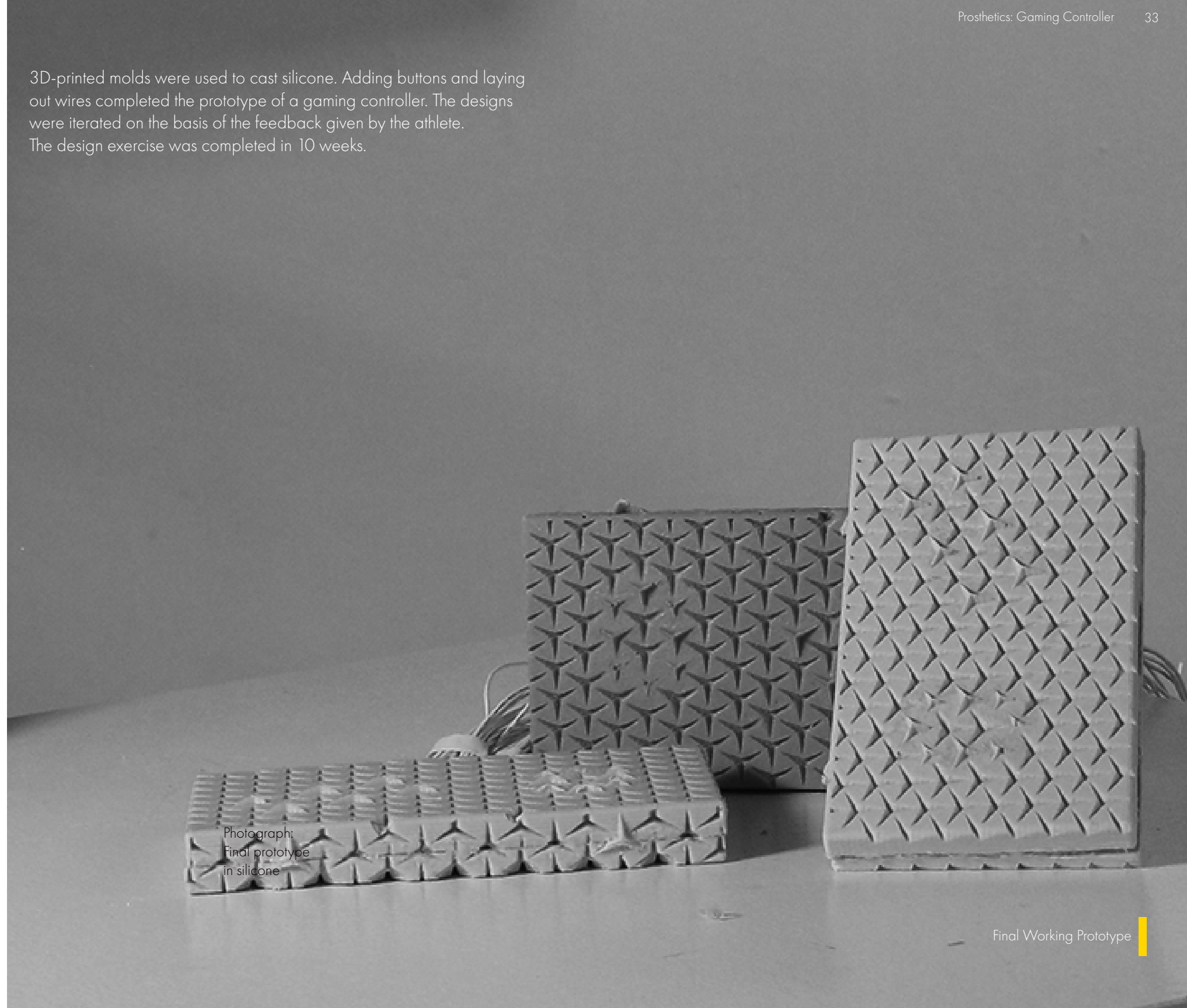
Design Development

Motion Mapping from video footage

3D-printed molds were used to cast silicone. Adding buttons and laying out wires completed the prototype of a gaming controller. The designs were iterated on the basis of the feedback given by the athlete. The design exercise was completed in 10 weeks.



Drawing:
Assembly drawing




Photograph:
Final prototype
in silicone

Final Working Prototype

THANK YOU

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