

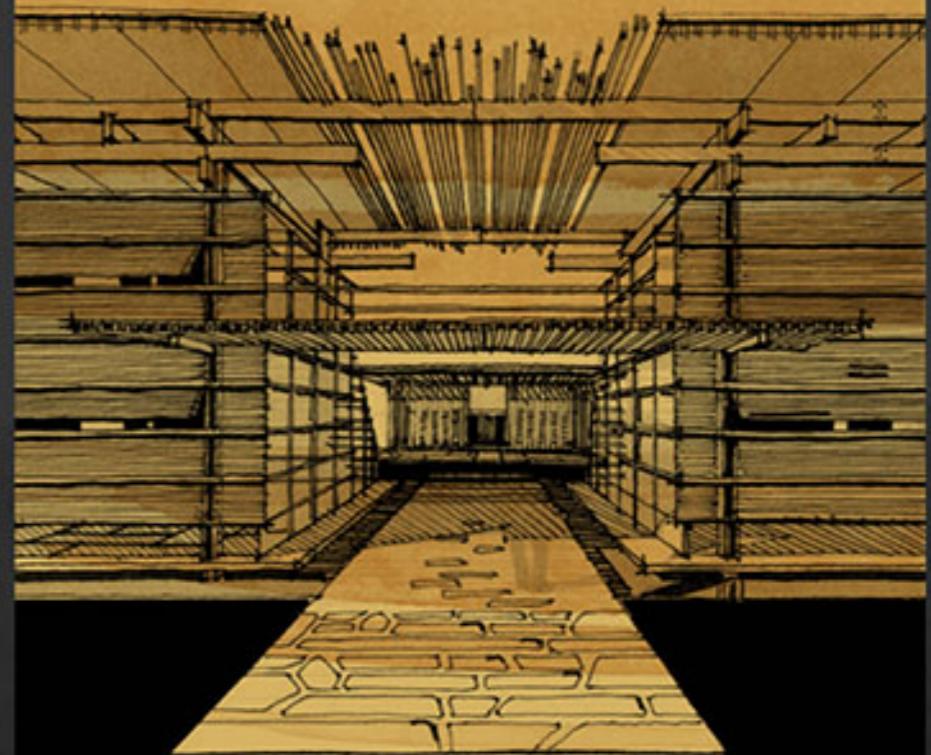
ARCHITECTURAL

PORTFOLIO

KHALED MUSTAFA METWALY

FINE ARTS - Architecture Department

2011 - 2016



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Architecture

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ACFF CRESCENT PAVILION COMPETITION AT OPERA HOUSE MAIN ENTRANCE PLAZA

Cairo, Egypt

Year : 2014

BUA : 800 m square

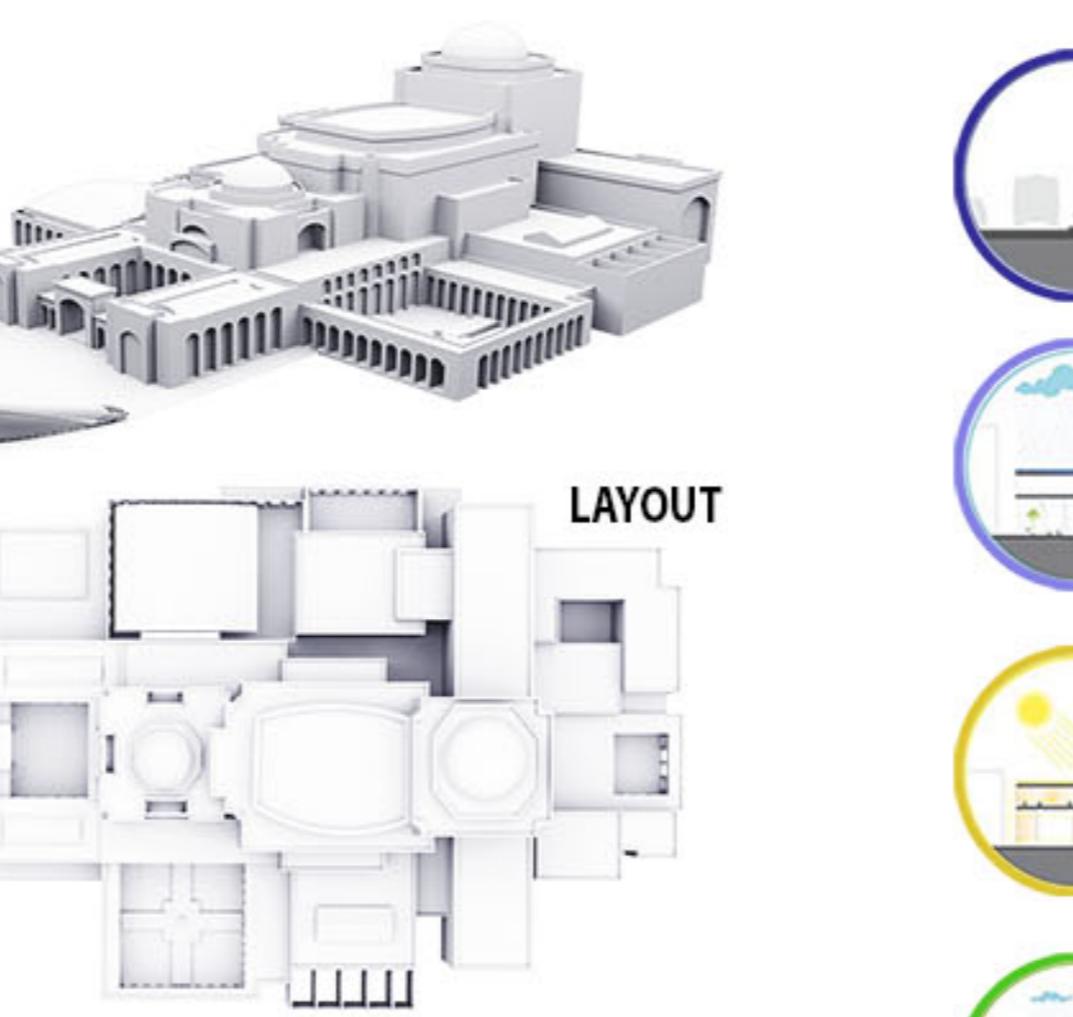
Project Status : Conceptual Design

A unique space, conceived to live a life open to nature. A compact, practical and accessible residence combining all the quality of a pavilion condensed into a minimal and autonomous space, in perfect harmony with its environment, Contemporary design and use of high quality materials

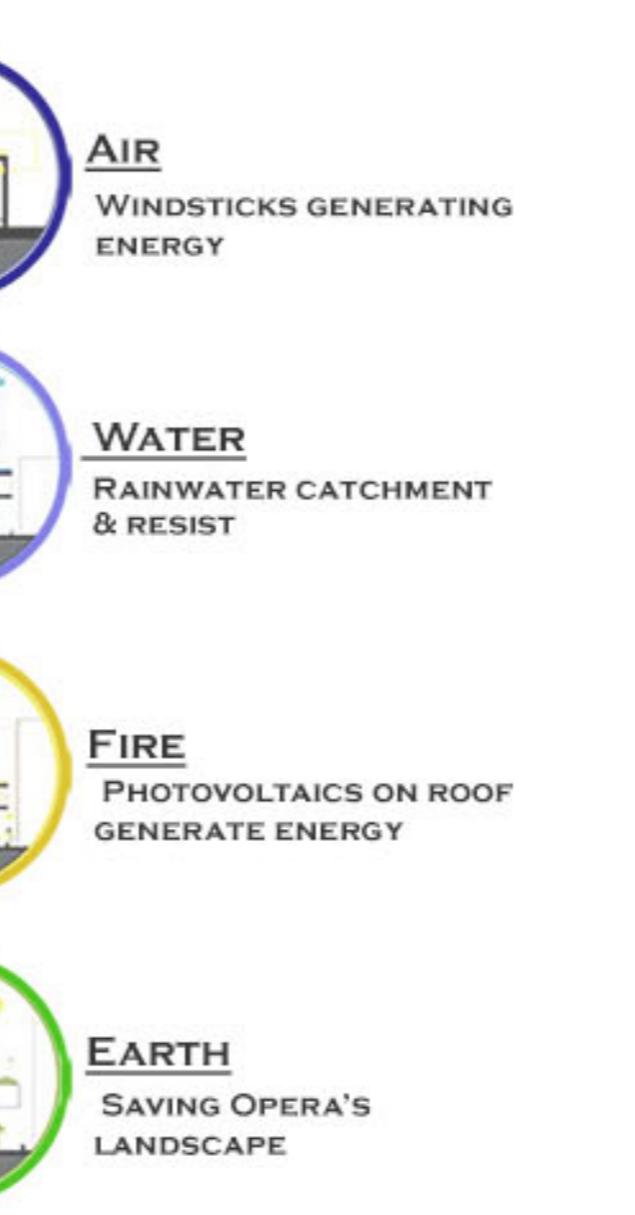
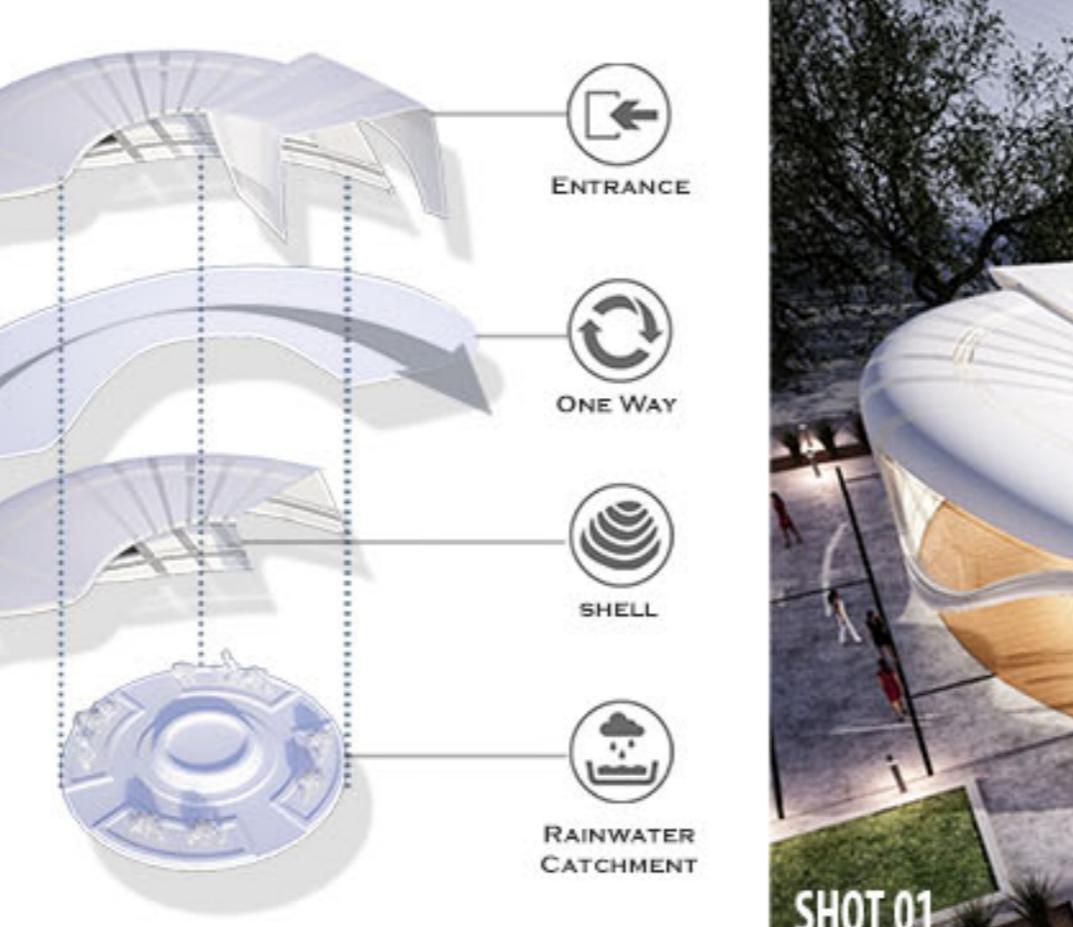
Self-sufficiency : Does not require any connection with the electrical grid thanks to the use of solar panels and propaneEnergy conservation Bioclimatic architecture following the principles of passive solar technology .

Experince Gained :

- 1- First time to Attend Solo Competition .
- 2- Gained Extra Experinces By Using Photoshop .
- 3- Making Mass Studies And Zoning For Site .



MASS LAYER STUDY SHOWING :
4 LAYERS FROM : (SHELL MASS - FLOOR MATERIAL - SHELL STRUCTURE - FOUNTAIN RESPONSIBILITY).



BIRD EYE VIEW



SHOT 01

SHOT 02

SHOT 03

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BASILICA HELIOPOLIS CHURCH 1ST YEAR RESEARCH USING 3Ds Max For Study

Cairo , Egypt

Year : 2012

BUA : 500 m square

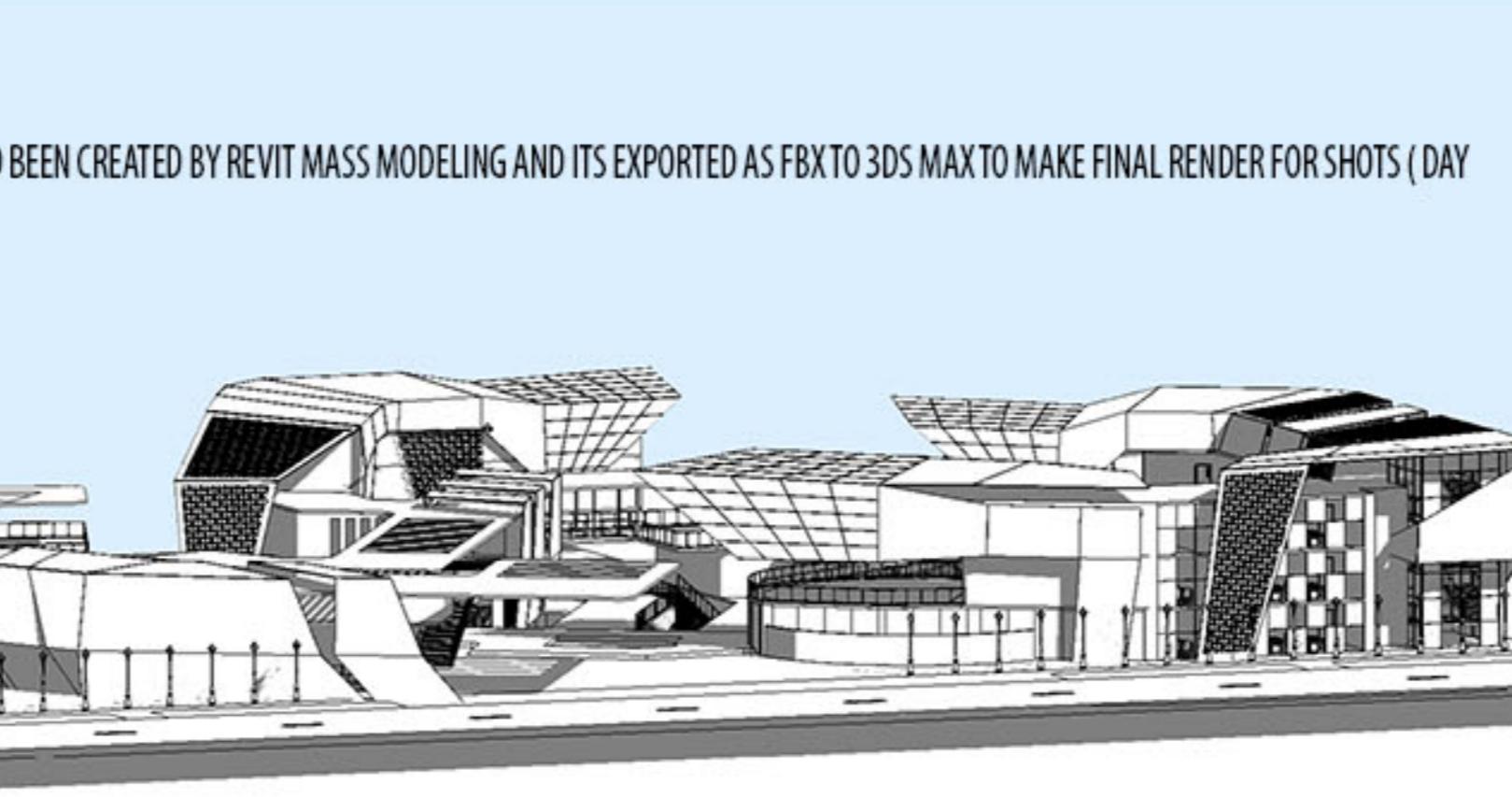
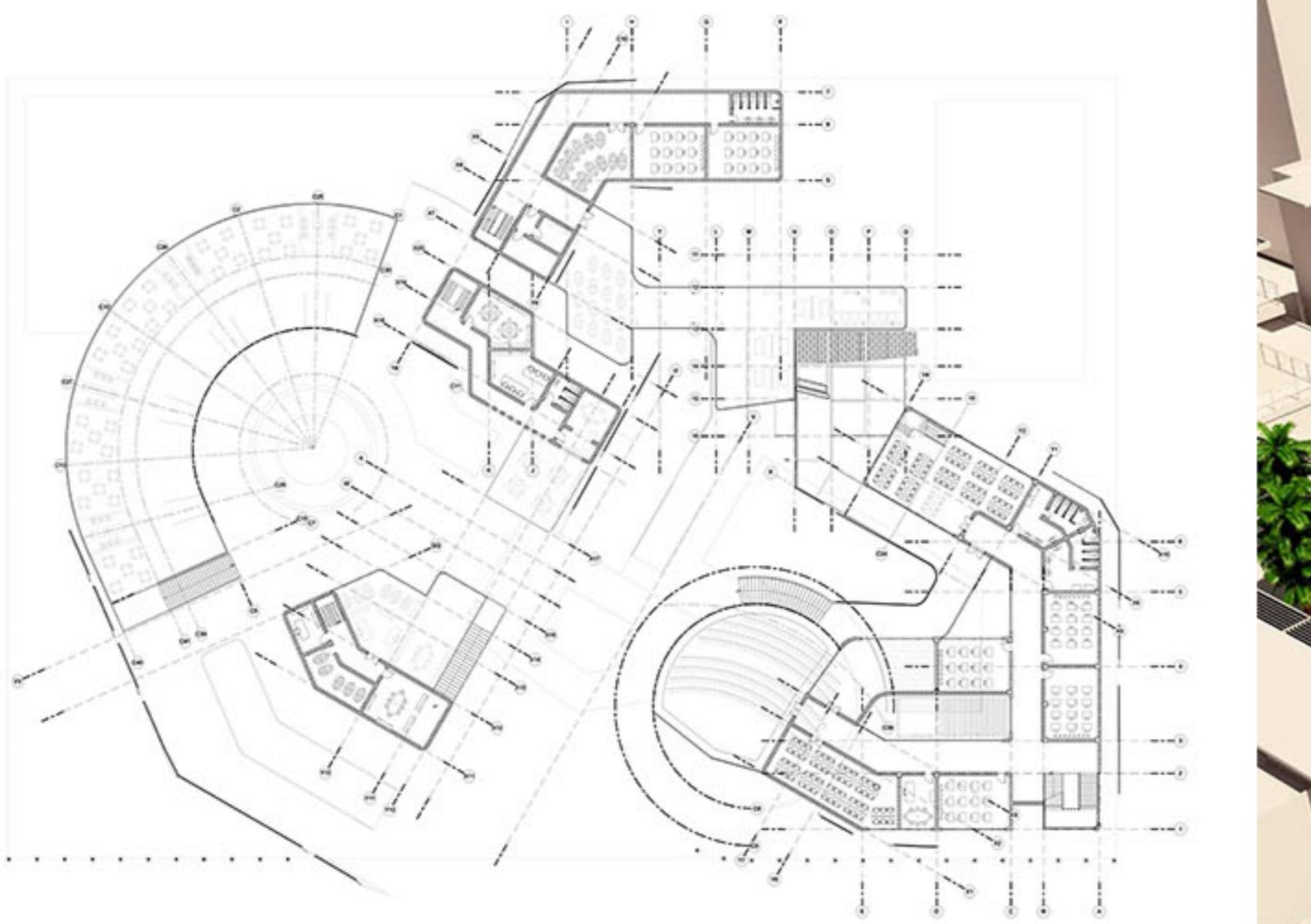
Project Status : Case Study

The Our Lady of Heliopolis Co-Cathedral or Latin Cathedral of Our Lady of Heliopolis is the name given to a religious building belonging to the Roman Catholic Church and is located in on the square El-Ahram, Heliopolis part of Cairo, Egypt.

Follow the Roman or Latin rite and is under the jurisdiction of the Vicariate Apostolic of Alexandria of Egypt (Vicariatus Apostolicus Alexandrinus). It is co-catedral since 2008. In 2014 members of various Christian denominations gathered at the site to pray for the country's future after the events in the Arab spring.

Experince Gained :

- 1- First Real Case Study About Christian Churchs .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Making Mass Studies And Zoning For Site .



SCHOOL PROJECT CONTANTS FROM (NURSERY - PRIMARY STAGE - MIDDLE STAGE)

Cairo , Egypt

Year : 2012

BUA : 1800 m square

Project Status : ARCHITECTURE DESING

The school has a number of stages and each stage has a suitable architectural style and how to adapt it to the students in the form or size of the spaces and how to distribute furniture to achieve the maximum amount of benefit reflected on the level of the student .

Each stage has its own program in the distribution of classes and activities where it requires in the nursery a lot of outdoor squares and games other than the rest of the age periods, on the contrary, the older age stages need many laboratories that do not require in nurseries .

Experince Gained :

1- SCHOOL DESIGN EXPERINCE FOR 3 STAGES .

2- Gained Extra Experinces By Using REVIT Modeling And 3Ds Max Rednering .

3- Making Floor Plans And Zoning For Site .



PORT SAID INTERNATIONAL AIRPORT

PORT SAID, Egypt

Year : 3RD Year College

BUA : 10000 m square

Project Status : ARCHITECTURE DESIGN

An airport is an aerodrome with extended facilities, mostly for commercial air transport.[2][1] Airports often have facilities to store and maintain aircraft, and a control tower. An airport consists of a landing area, which comprises an aerially accessible open space including at least one operationally active surface such as a runway for a plane to take off[3] or a helipad,[4] and often includes adjacent utility buildings such as control towers, hangars[5] and terminals. Larger airports may have fixed-base operator services, airport aprons, taxiway bridges, air traffic control centres, passenger facilities such as restaurants and lounges, and emergency services.

An airport with a helipad for rotorcraft but no runway is called a heliport. An airport for use by seaplanes and amphibious aircraft is called a seaplane base. Such a base typically includes a stretch of open water for takeoffs and landings, and seaplane docks for tying-up.

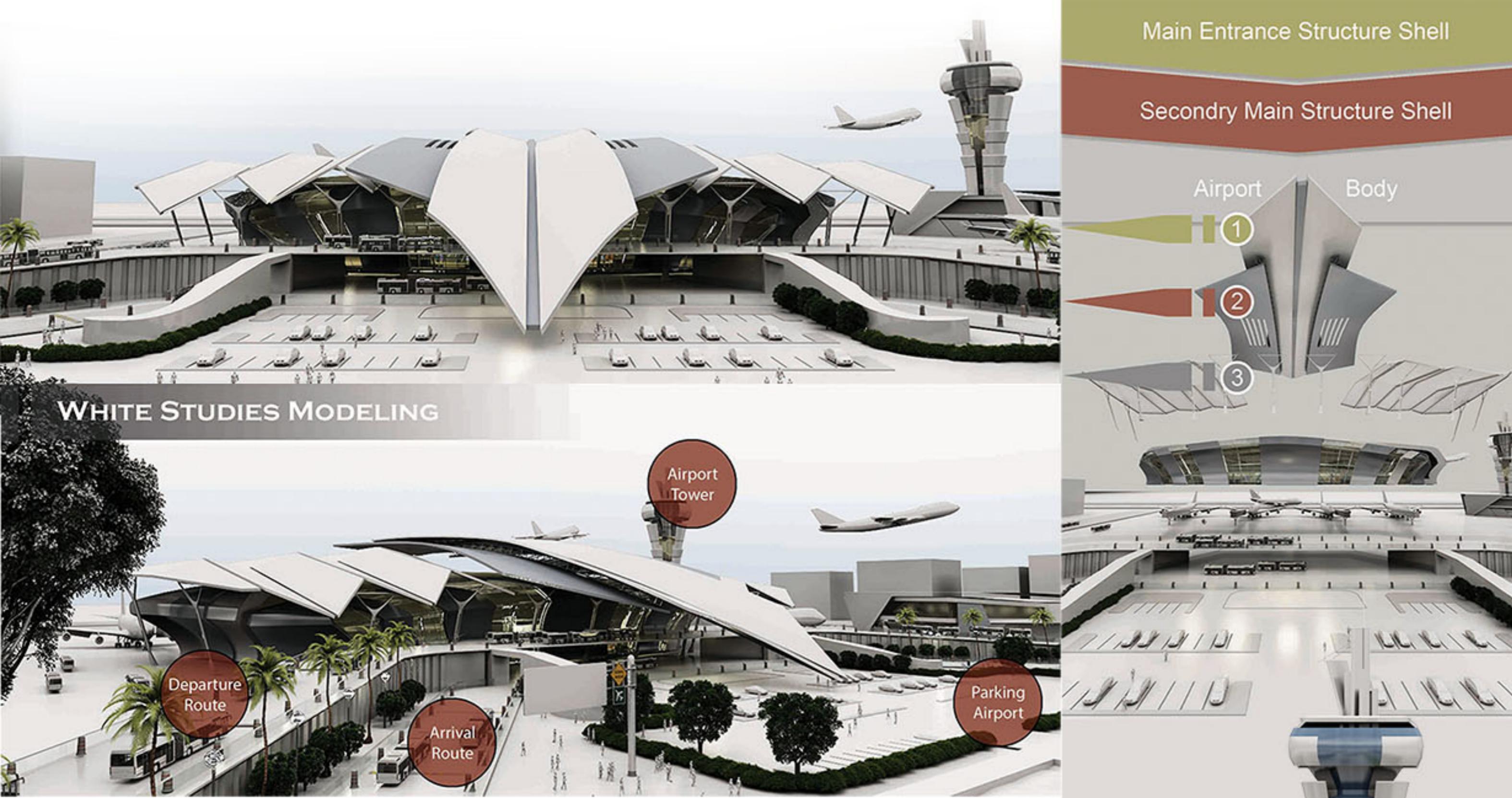
An international airport has additional facilities for customs and passport control.

Experince Gained :

1- International AirPort Design .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

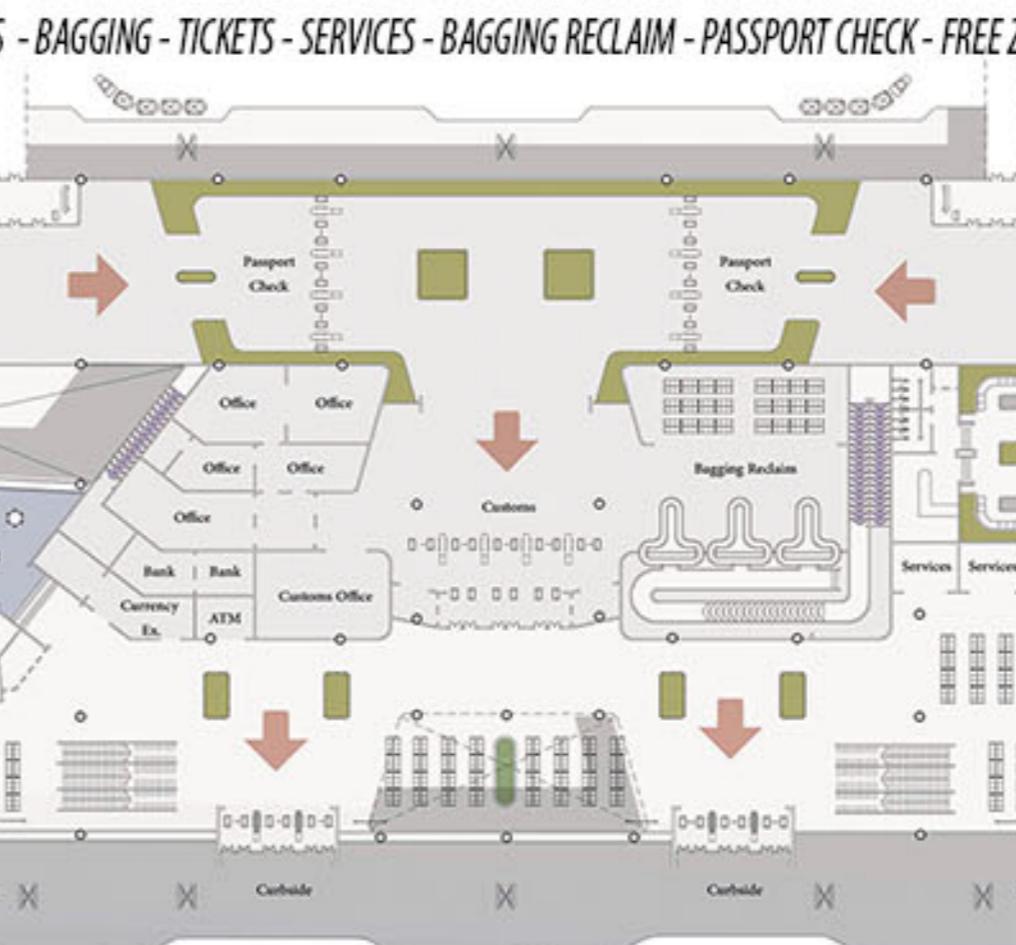
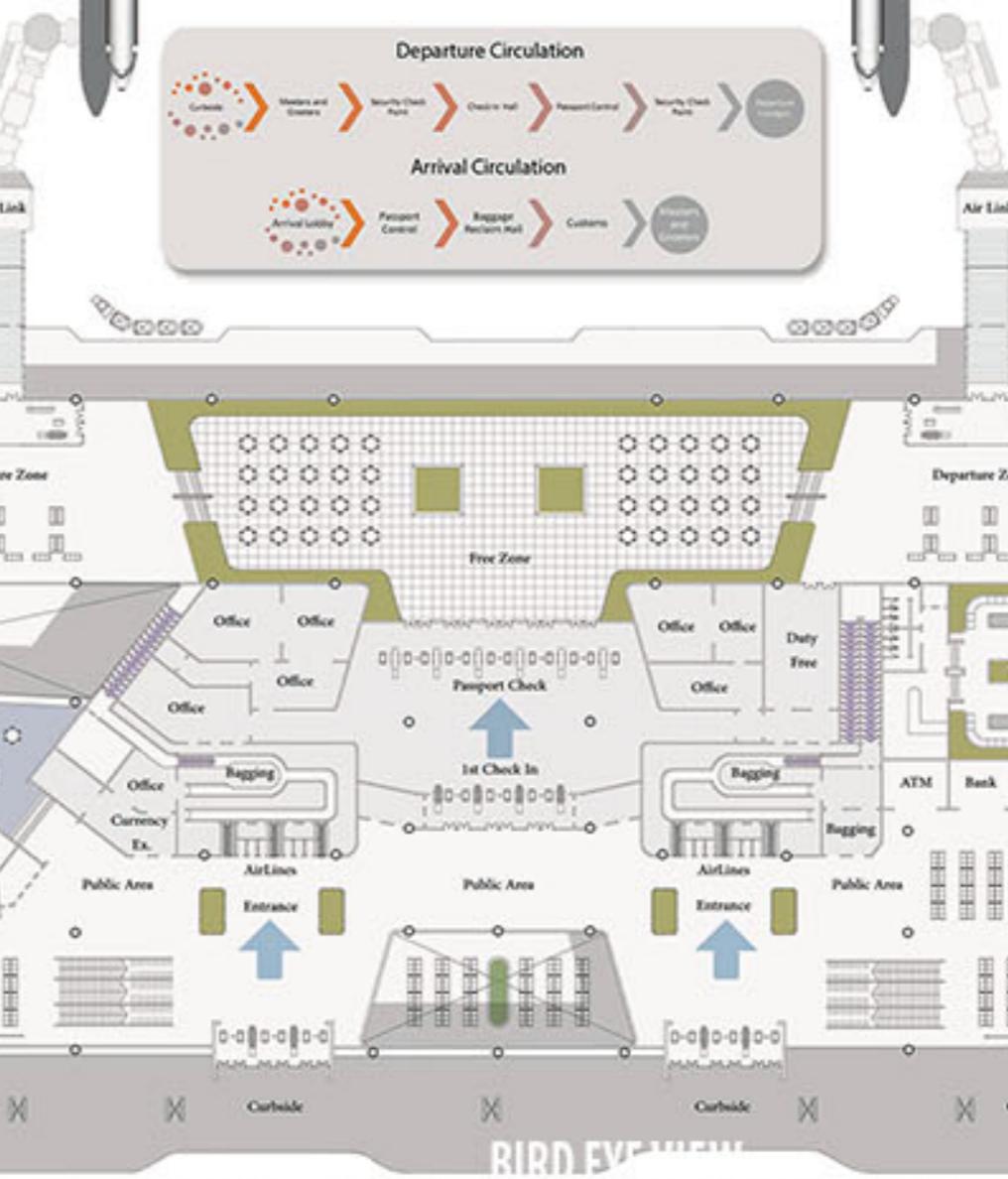
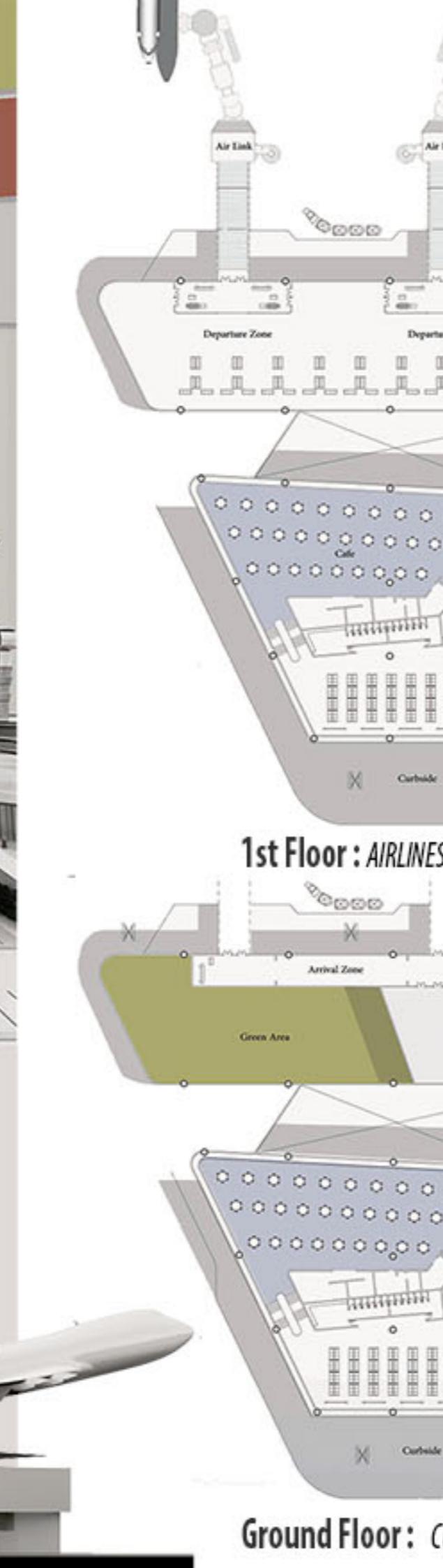
3- Making Airport Plans , Modeling And Zoning For Site .



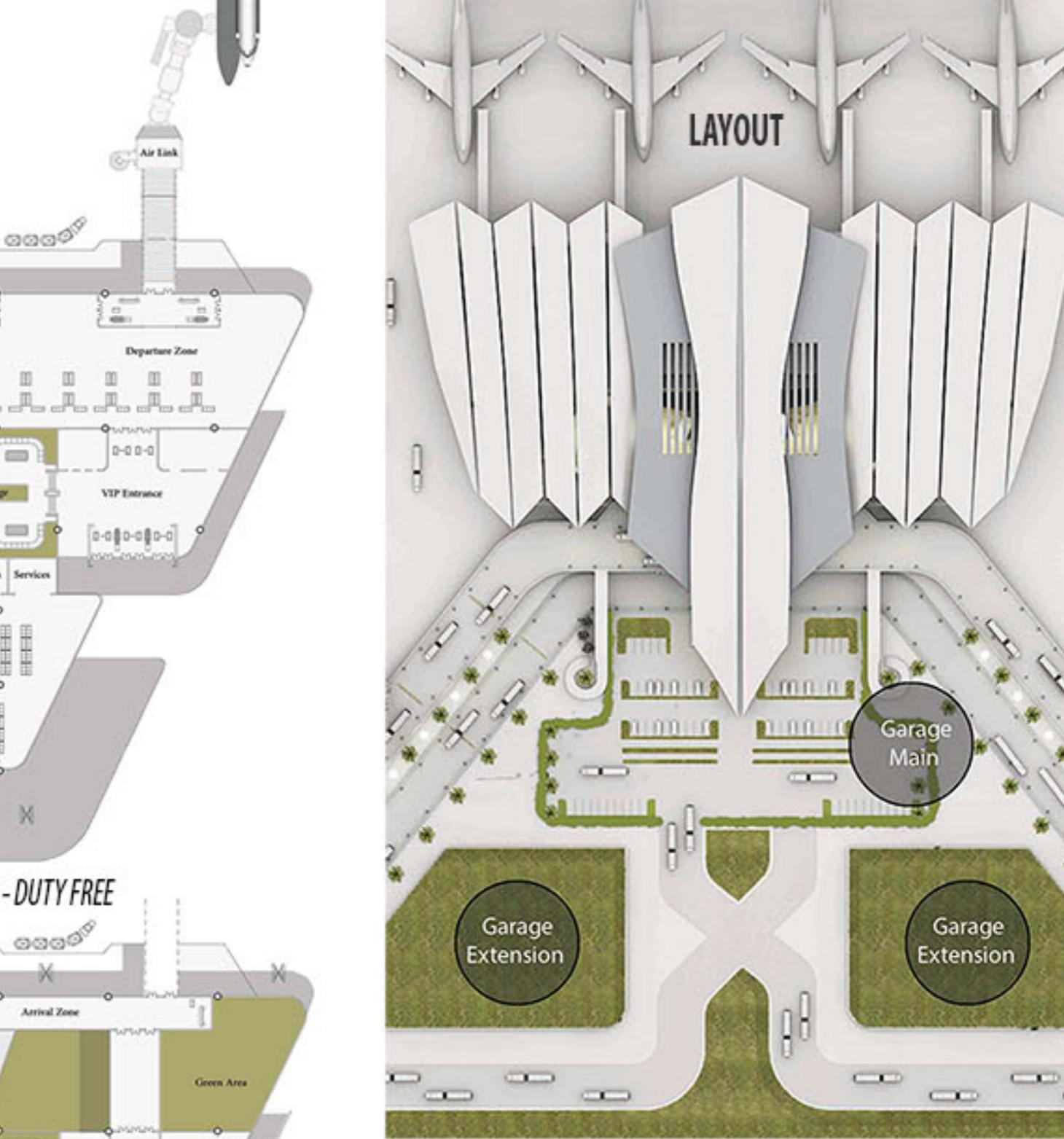
WHITE STUDY MODE SHOWING:

4 MAIN INCLUDING PARTS IN AIRPORT : (DEPARTURE ROUTE AT 1st LEVEL - ARRIVAL ROUTE AT GROUND LEVEL - PARKING FOR AIRPORT AT GROUND FLOOR LEVEL - MAIN AIRPORT TOWER)

ALL OF THESE PARTS ARE VERY IMPORTANT IN PROGRAM .



Ground Floor: CURBSIDE-CUSTOMS OFFICE - TICKETS - SERVICES - BAGGING RECLAIM - PASSPORT CHECK - ARRIVAL ZONE

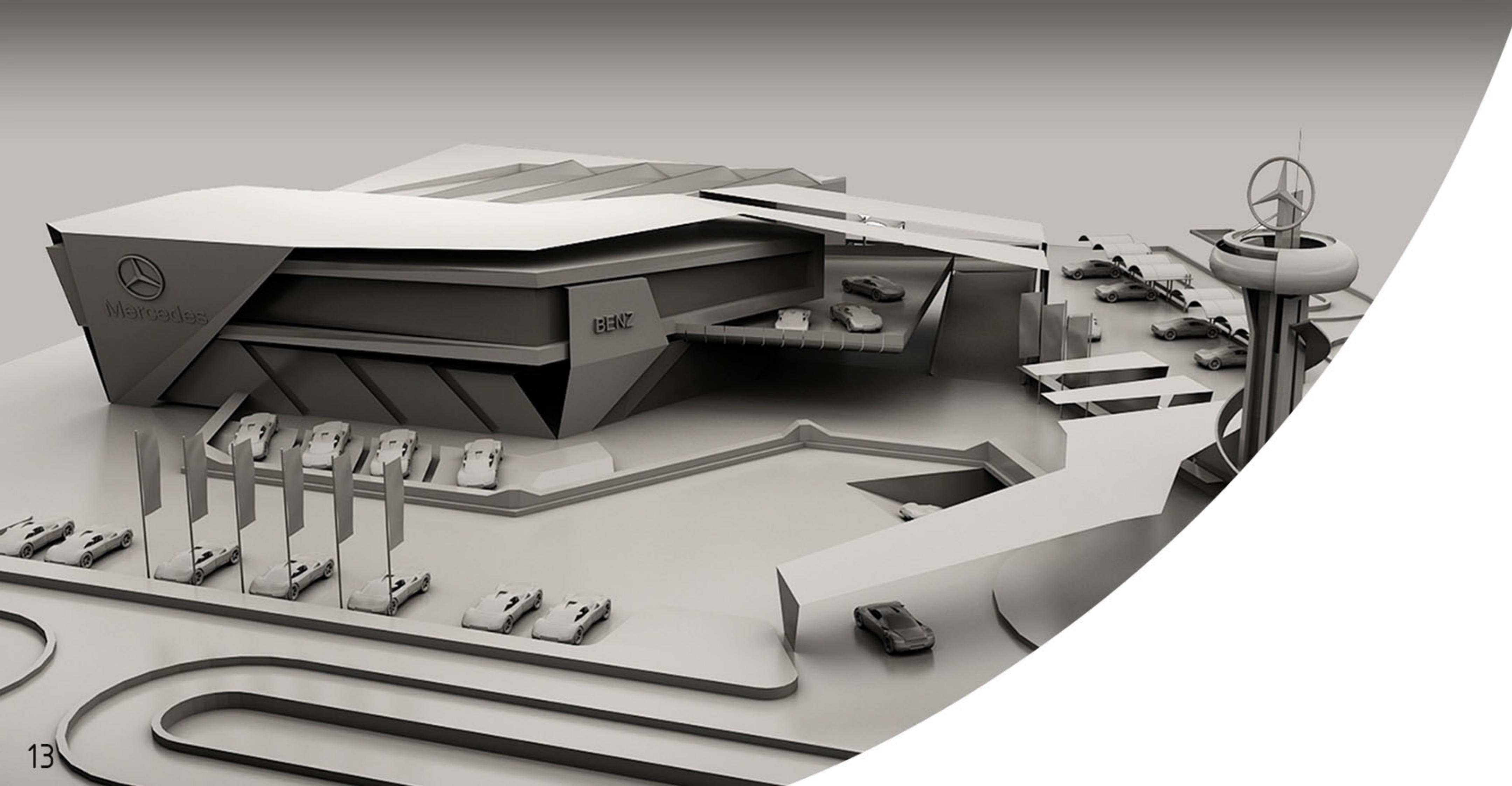


LAYOUT STUDY SHOWING :

2 MAIN ROADS : 1st ONE IS ARRIVAL ROUTE THATS IN HIGH LEVEL , 2ND ONE IS ARRIVAL ROUTE AT GARAGE LEVEL .

SHOWING THE SHELL STRUCTURE AT THE TOP OF AIRPORT WHICH MAKE THE MASS A UNIQUE ONE .

THERE ARE 2 GARAGE EXTENSIONS NEITHER THE MAIN ONE FOR PARKING CARS THATS RESPECT THE FUTURE VISION EXTENSION AT THE ANY TIME AND CONTIN THE NUMBER OF VISITORS .



MERCEDES BENZ CAR SHOWROOM

Cairo , Egypt

Year : 2nd Year College

BUA : 1200 m square

Project Status : ARCHITECTURE Design

Mercedes-Benz (German pronunciation) is a global automobile manufacturer and a division of the German company Daimler AG. The brand is known for luxury vehicles, buses, coaches, and trucks. The headquarters is in Stuttgart, Baden-Württemberg. The name first appeared in 1926 under Daimler-Benz.

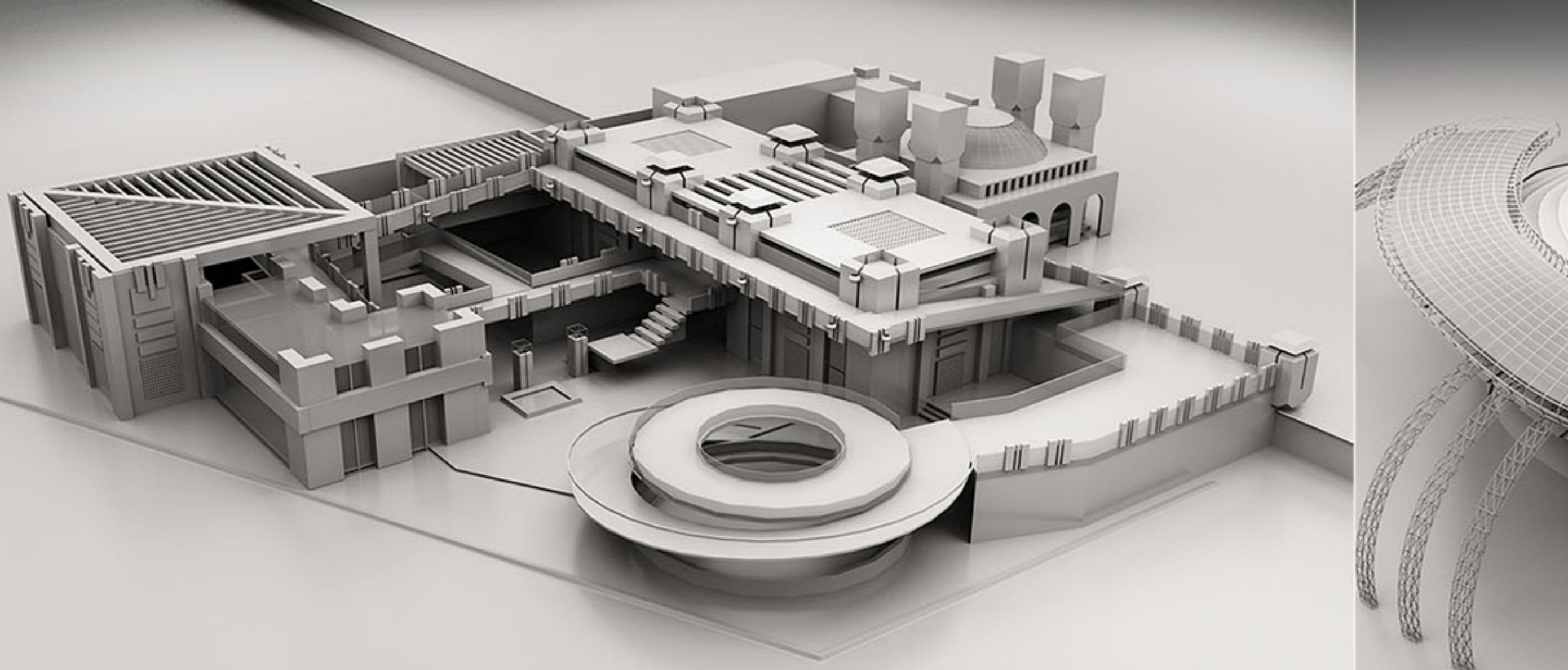
Mercedes-Benz traces its origins to Daimler-Motoren-Gesellschaft's 1901 Mercedes and Karl Benz's 1886 Benz Patent-Motorwagen, which is widely regarded as the first gasoline-powered automobile. The slogan for the brand is "the best or nothing".

Experince Gained :

1- CAR SHOWROOM CIRCULATION .

2- Gained Extra Experinces By Using 3Ds Max And Autocad.

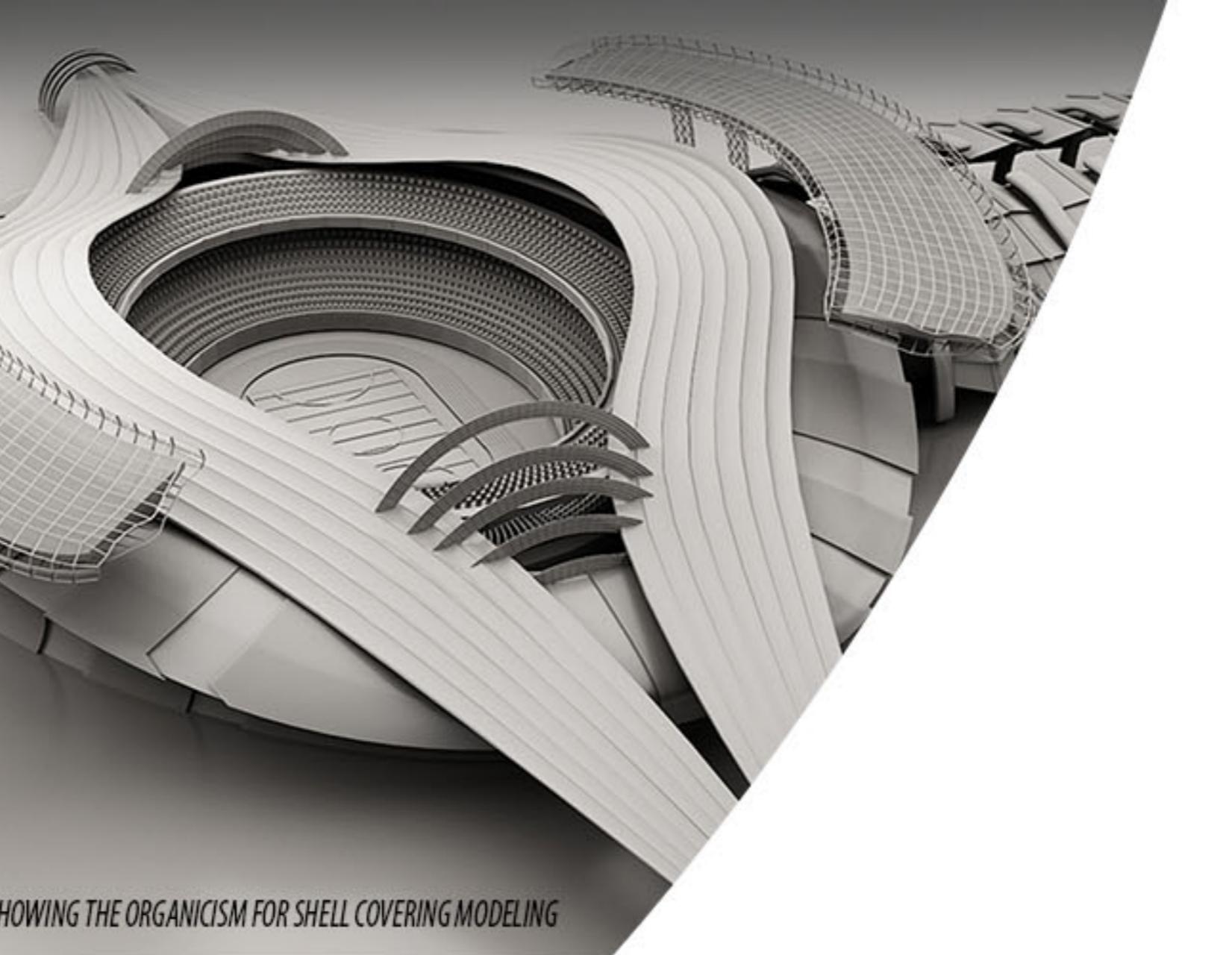
3- Making Mass And Plans For All Levels And Factory .



MAIN SHOT : SHOWING THE SKYLINE FOR HANDICRAFTS PROJECT - MODERN ISLAMIC MASS - ENTRANCES OF PROJECT



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STADIUM : SHOWING THE ORGANICISM FOR SHELL COVERING MODELING

3DS MAX MODELING FOR 2 DIFFRENT PROJECTS (HANDICRAFS MEN - STADUIM)

Cairo , Egypt

Year : 2011 - 2012

BUA : Various

Project Status : Case Study - 3D Modeling

CARFTS MAN : This Project Done At 1st Year College With Diffrenct Program : Main Entrance - Big Hall Musem - 3 Various Crafts Areas In Same Zone - Main Plaze .
This Project Was Made on Contour Site Thats gives The Design Power Neither Than Else .

STADUIM : Training For 3D Organic Modeling For 3Ds Max And Using Array Tool For Chairs Roundly The Main PlayGround And How Using White Render For Shadows Effect Thats Gives The Work The Realism

Experince Gained :

- 1- Architecture Design For Handicrafts Men And 3 Various Crafts Area Requirments .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Making Mass Modeling Organic For Studim .

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MODERN AQUARIUM MUSUEM OF ALEXANDERIA

Alexanderia , Egypt

Year : 2nd Year College

BUA : 1500 m square + 800 m square extension

Project Status : ARCHITECTURE Design

The aim of design is preserve and illustrate the character of image, which is the main object in a museum. The entire program is wrapped into an illuminated glass box floated above a deck and eventually shaped an AQUARIUM.

The dynamic expression of the aquarium makes an Iconic object not only by its form but also by the colorful curved images it creates in light and motion.

Galleries are suspended inside the aquarium space which is covered by a double skin façade made up of wavy glass that emphasis the aquarium's effect. This façade makes the museum picture blurred, illuminated and wavy so that from outside objects are recognizable but not clearly visible and it looks like a reflection of an image on the water.

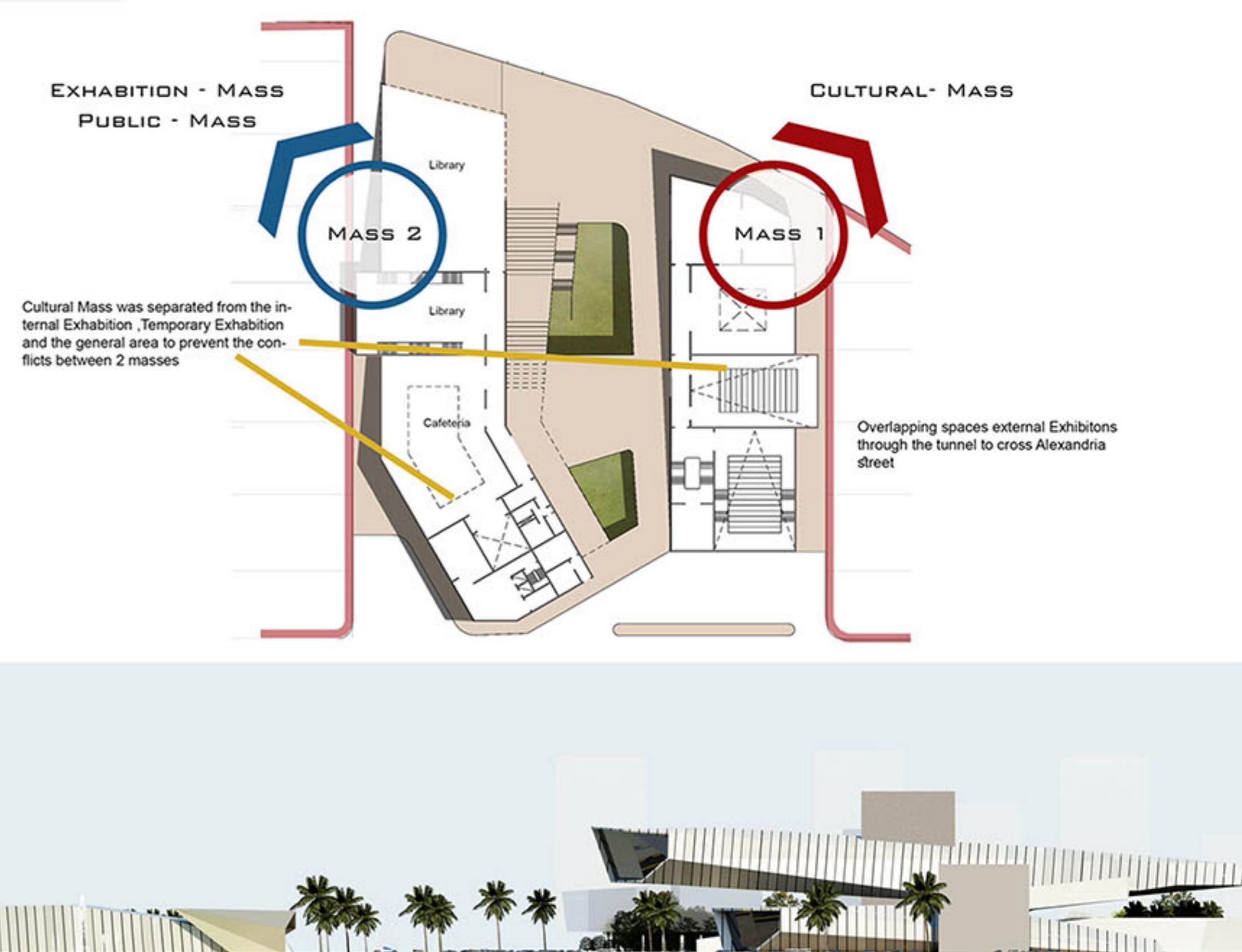
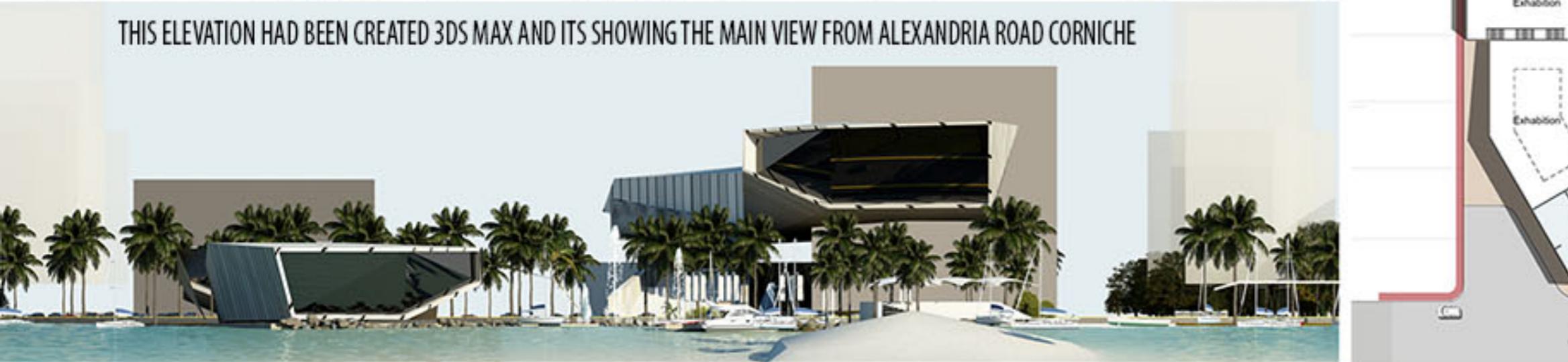
This transformation and duality between image and reality is happened when we are watching at a painting or artwork that our instinct tries to bring image into reality and vice versa .

Experince Gained :

1- AQUARIUM MUSUEM CIRCULATION .

2- Gained Extra Experiences By Using 3Ds Max And Autocad.

3- Making Mass And Plans For All Levels And MUSUEM.





NEW ADMINISTRATIVE CAPITAL OFFICE TOWERS

Regional Ring Road , Egypt

Year : 4th Year College

BUA : 50,000 m square

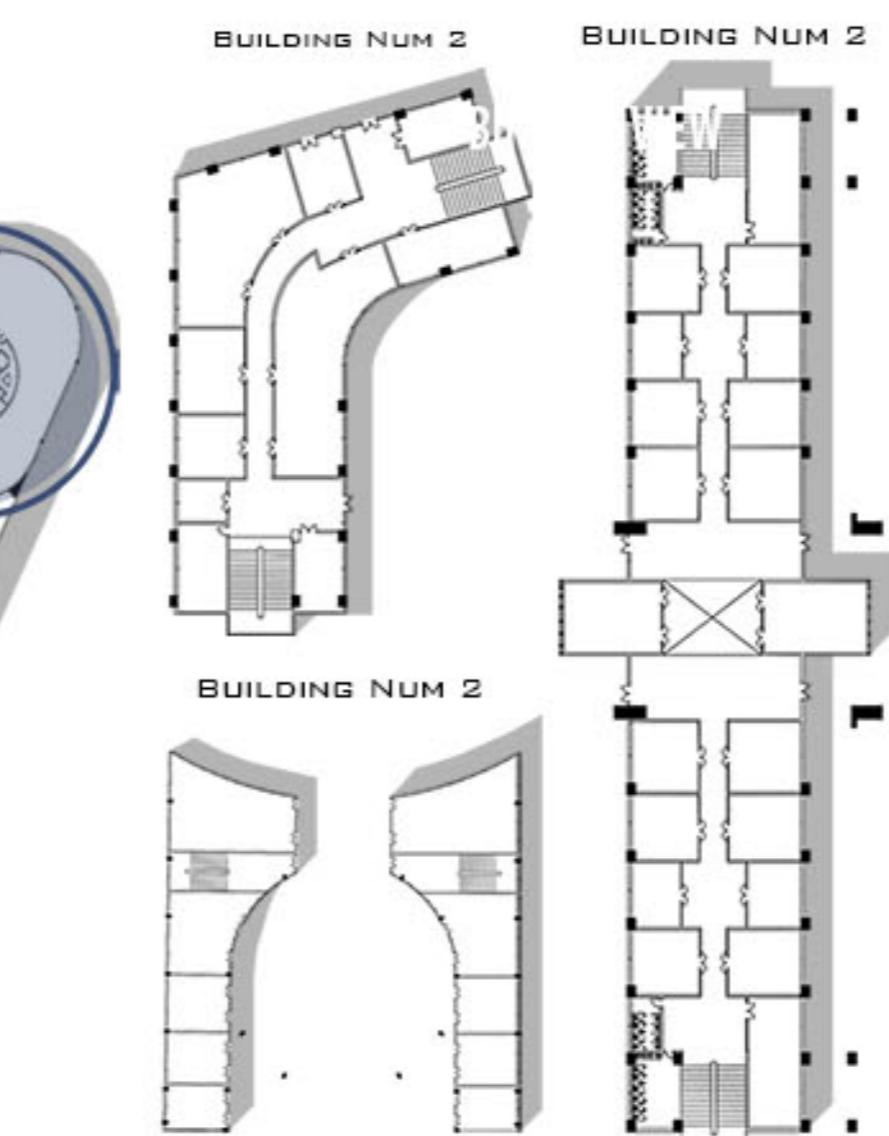
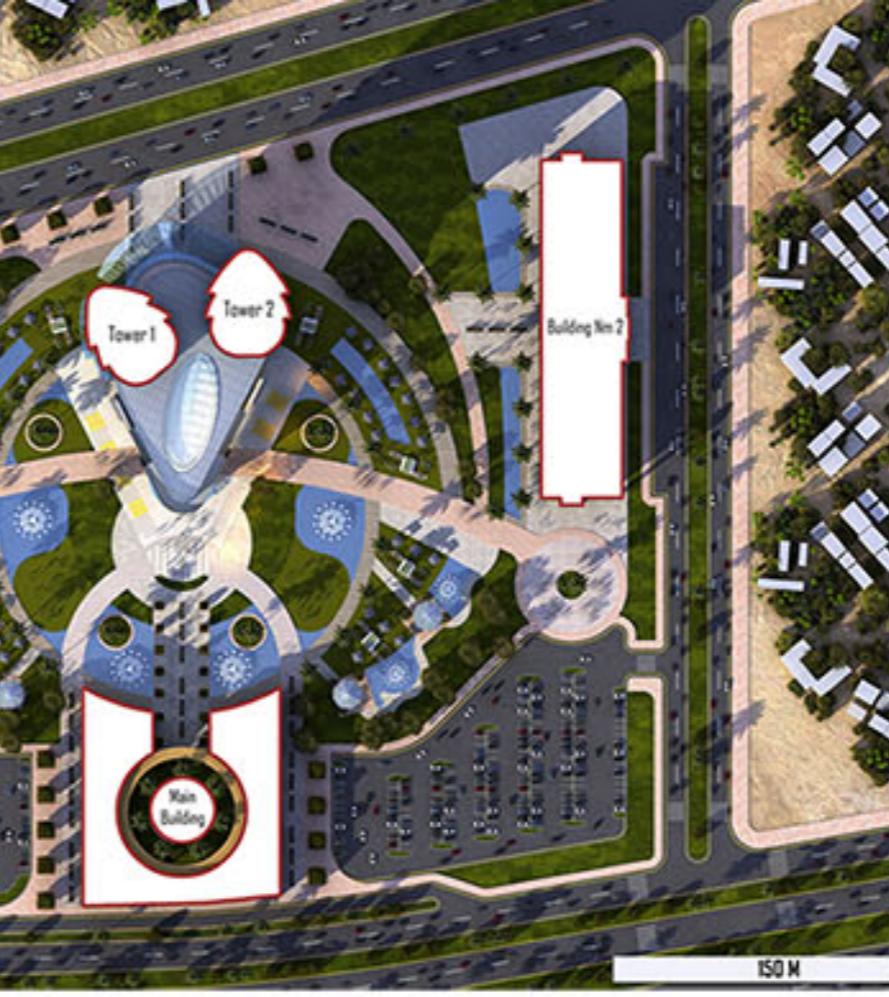
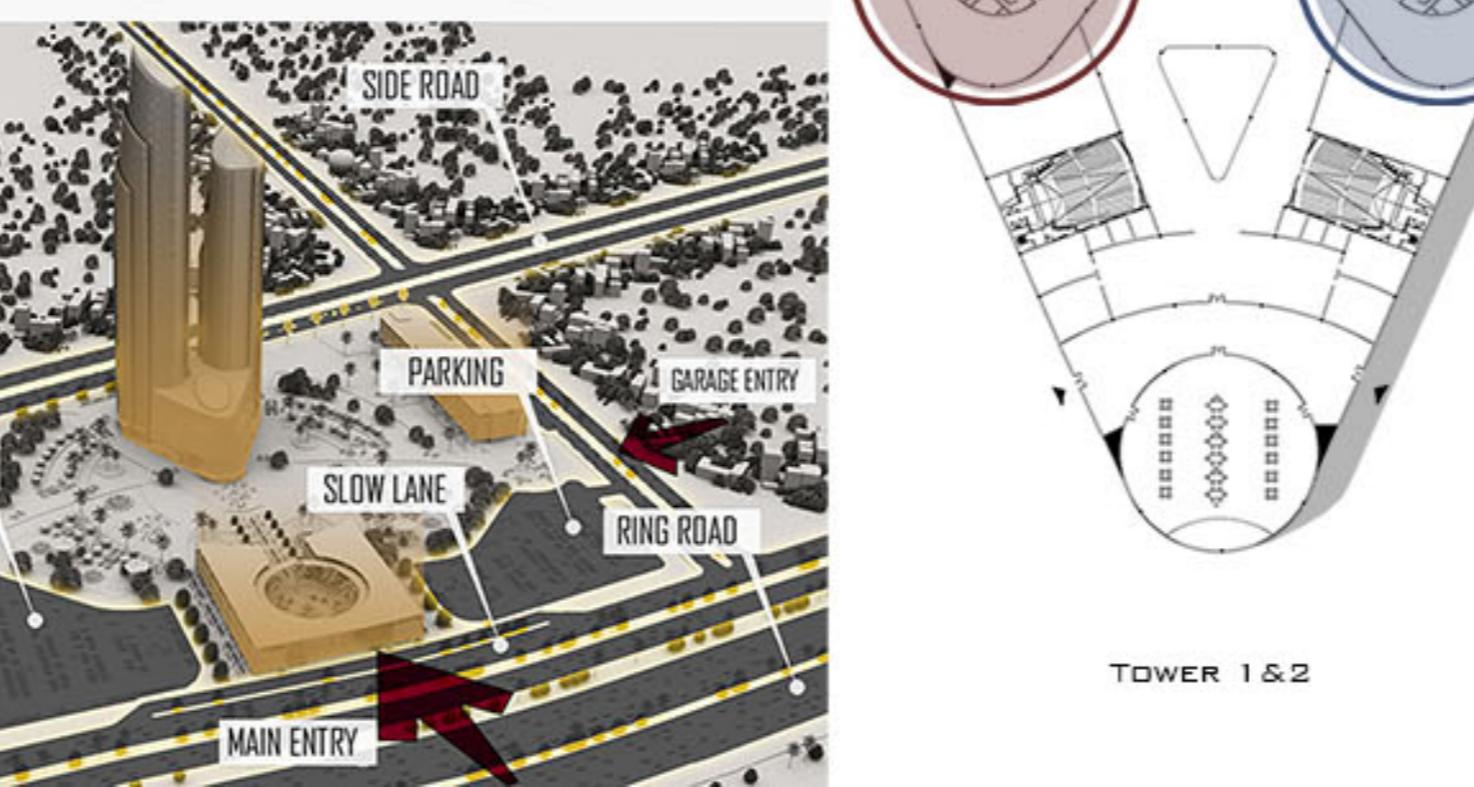
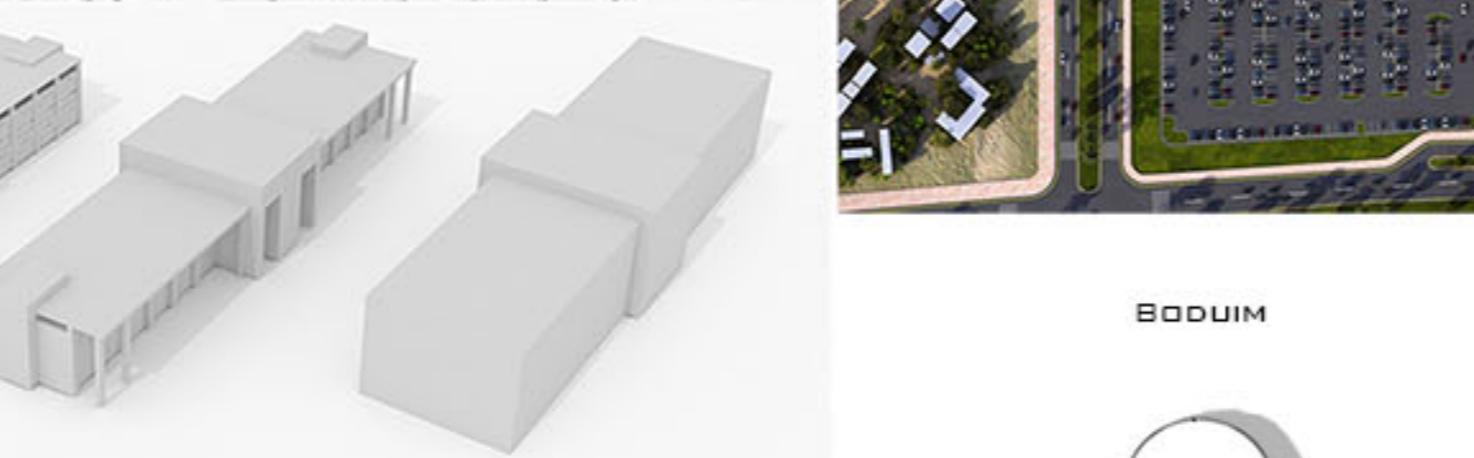
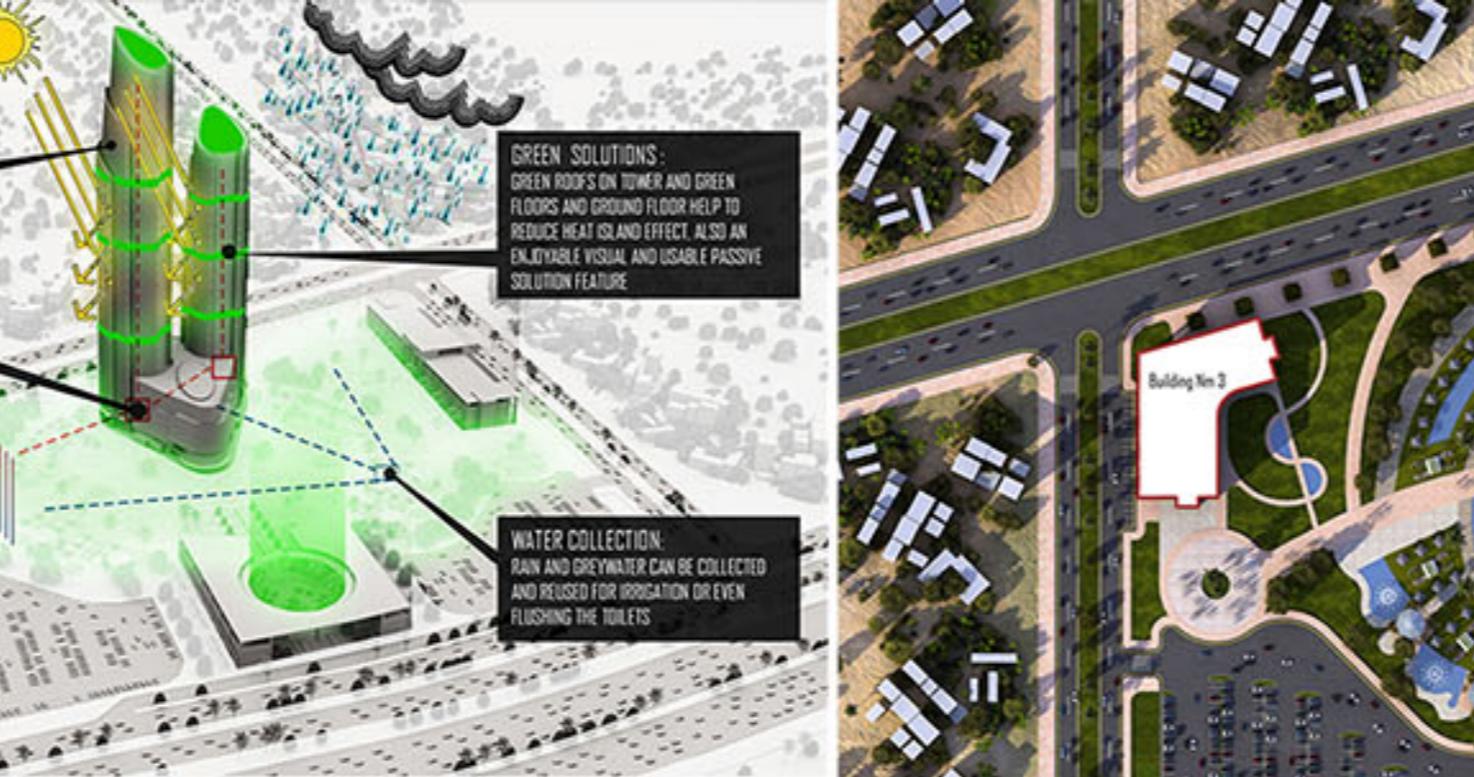
Project Status : ARCHITECTURE Design

The design contains many elements, the most important of which are the two towers. The first tower consists of offices for private companies and also for a hotel. The purpose of the operation is profitability, while the other consists entirely of offices for public companies only of the state to eliminate government interests.

The rest of the elements will be service and social elements, including the garage, which can accommodate many cars coming on the project and there are three buildings used for public shops and restaurants also .

Experince Gained :

- 1- Office tower Programs and core design for elevators .
- 2- Gained Extra Experinces By Using 3Ds Max And Autocad.
- 3- Making Mass And Plans For All Levels of towers .
- 4- Urban Planing and landscape .



SHOWING THE 2 TOWERS ELEVATION AND THE STORES ZONE FROM OUTSIDE ROAD



SHOWING THE 2 TOWERS AT BACK YARD AND THE STORES ZONE FROM OUTSIDE ROAD



ELEVATION : SHOWING THE SKYLINE FOR AIRPORT TERMINAL BUILDING PROJECT - MODERN MASS - ENTRANCES OF PROJECT



AIR STATION TERMINAL PROJECT - FREE LANCE

Cairo , Egypt

Year : 2013

BUA : 15000 m square

Project Status : Architecture - 3D Modeling

AIR STATION PROGRAMS AND CIRCULATION FOR MAIN HALL :

Air Station Has Contents For : Hall - Reception - Shop - Restaurants - Waiting area - Conference Hall - Air lines Offices - Administration - Entrance

AIR STATION 4 CIRCULATIONS AND DEPARTMENTS :

The Projects Contains For 4 Main Parts And Circulation : Departures - Shopping - VIP - ARRIVALS

Experince Gained :

1- Architecture Design For Air Station Terminal Area Requirments .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

3- Making Mass Modeling .



VILLA : FREE LANCE EXTERIOR MODLENIG AND RENDERING FOR VILLA AT TAGMAOOA EL KHAMIS



VILLA : FREE LANCE EXTERIOR MODLENIG AND RENDERING FOR VILLA AT TAGMAOOA EL KHAMIS



BEAUTY CENTER : FREE LANCE EXTERIOR MODLENIG AND RENDERING FOR MAGDA IBRAHIM BEAUTY CENTER

3 DIFFRENT PROJECT FROM LEFT TO RIGHT (VILLA AT TAGAMOA - MAGDA BEAUTY CENTER - HELIOEYE COMPOUND)
Cairo , Egypt

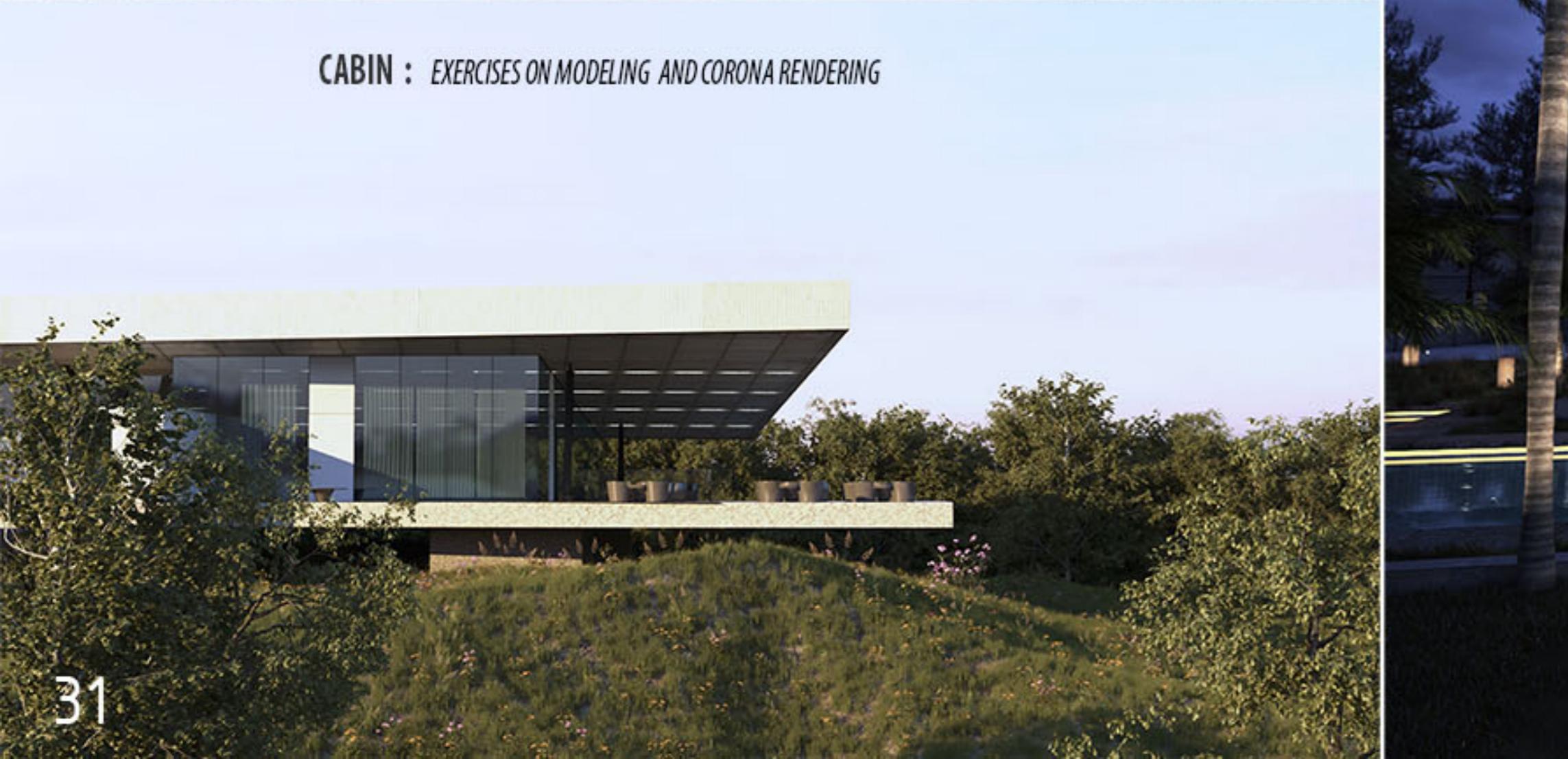
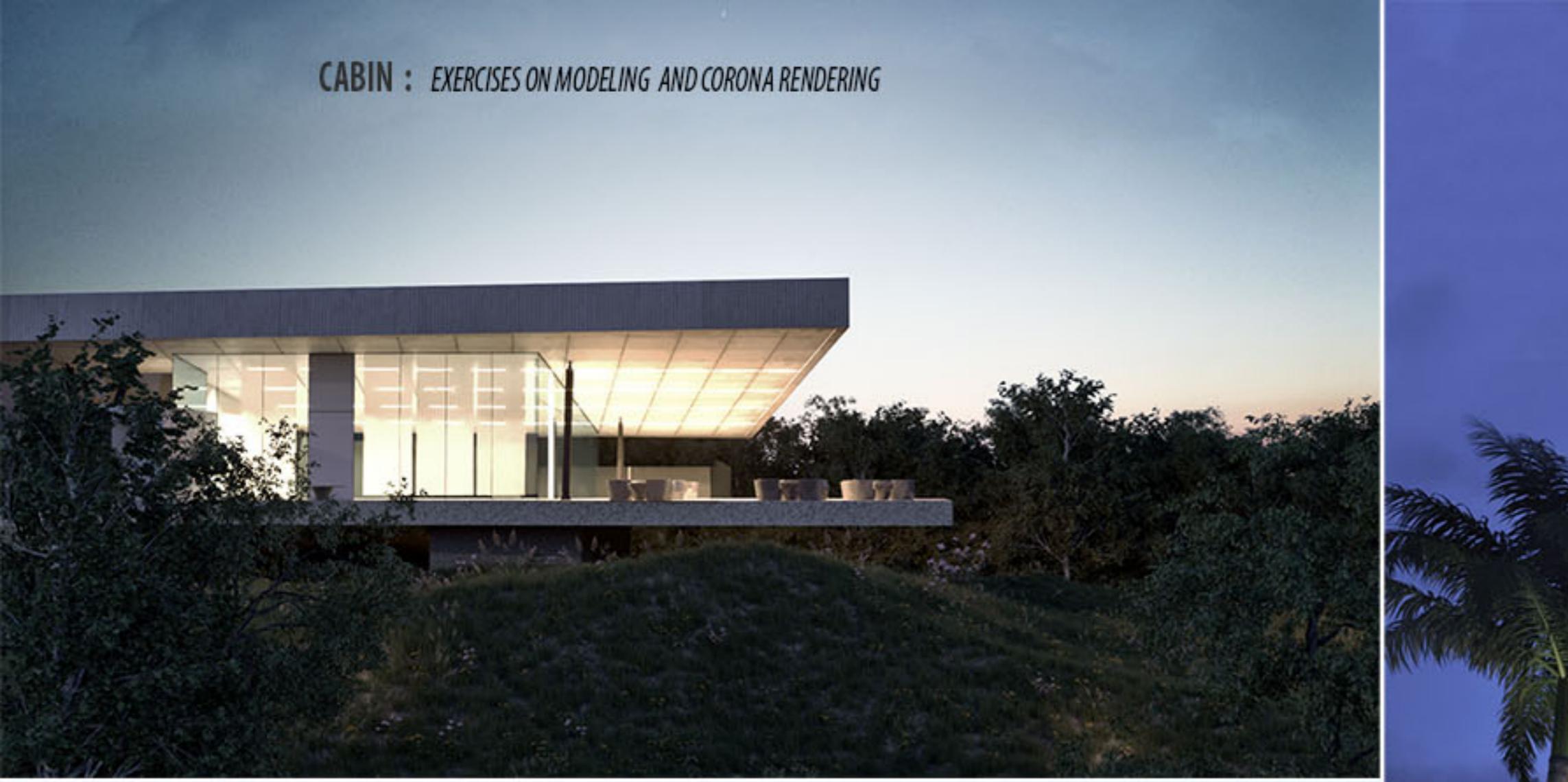
Year : 2012 - 2015
Project Status : VARIOUS

Experince Gained :

- 1- Architecture Design For Diffrent Projects .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling And Rendering By Vray .
- 3- Making Mass Modeling And Using Scatter Plugin .



COMPOUND : FREE LANCE EXTERIOR MODLENIG AND RENDERING FOR HELIOEYE COMPOUND



FOOD FACTORY : FREE LANCE EXTERIOR MODLENIG AND RENDERING FOR FOOD FACTORY AT TAGAMOOA FATORY AREA SHARING IEE COMPANY





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URBAN / LANDSCAPE

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Landscape Club Design
Ain Sokhna Resort / District Design
Urban Design For Compound

Layout Section Indecations

Soil Solutions Study

• Soil Descriptions :
Main Layout Scale 1:3000

Gravel Soil Solutions

- rocks make for a great garden above ground, but when the soil below is made up of the same impenetrable stone, plant roots have a tough time getting the nutrients they need to survive. So what do you do if your yard is full of rocky soil? Homeowners across the country blast, backhoe and burrow their way through compacted soil, not always with satisfactory results.
- first step to transforming the soil is to bring in a backhoe to see what's there.

Clay Soil Solutions

- teeth marks carved into the soil by the backhoe are a pretty good indication that digging down won't work. Another clue is the zillions of rocks scooped up. "We realized that we're not going to be able to dig down, so we'll have to build out," Singer says.
- Rocks aren't all that biologically active, which means that they don't enhance the soil's productivity much. Smart gardeners want to plant lavender in this cove someday.

Analysis Legends :

- North Wind**: Showing From Where This Wind Comes And How We Can Use It In Design And How It Affect On Site Concept .
- Main Road**: Showing The Direction Of This Roads And How It Helps In Diving And Define The Main Entrance And Paking .
- Summer Sun Path**: Showing The Form Of Curved Shape Of Sun Path And How It will Effect On Design At Summer Months
- South Wind**: Showing From Where This Wind Comes And How We Can Utilize It In Design And Solve This Problem
- Secondary Road**: Showing The Direction Of This Roads And How It Helps In Diving And Define The Main Entrance And Paking .
- Winter Sun Path**: Showing The Form Of Curved Shape Of Sun Path And How It will Effect On Design At Winter Months

View Study By using Curved Spine

Neighbourhood

View Lake

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View Descriptions :

Main Spine On Lake

Lake Spine :

- This Study Showing Defrence Between Main Entrance Level And Lake level which gives the largest amount of vision since entry location to the end of the Location , Said That Curved Spine giving largest amount of vision And Accessibility For Lake view since entry location to the end of the Location , By This Concept Used Also For Ramp And How it show relationship and the impact on the separation of the site into two parts The first part special to play the kids and the swimming pool and the other part is the movement of visitors and a special area of rare trees and More of Site Functions .

Section A-A :

- By using Section A-A Showing Defrence Between Main Entrance Level And Lake level which gives the largest amount of vision since entry location to the end of the Location , Said That Curved Spine giving largest amount of vision And Accessibility For Lake view since entry location to the end of the Location , By This Concept Used Also For Ramp And How it show relationship and the impact on the separation of the site into two parts The first part special to play the kids and the swimming pool and the other part is the movement of visitors and a special area of rare trees and More of Site Functions .

Section B-B :

- By using Section B-B Showing Defrence Between Side Road Of Neighbourhood Level And Cafeteria level which gives the largest amount of vision since Walking On ramp to the top of the cafeteria's contour , Showing Vision relationship between ramp , cafeteria and the lake and showing kids area and the other side entrance and how it separate into two main spines one of them connected with the main lake and other connected with whole site .

View Using Longer Curved Spine

Wind Green Tree Fence
Protecting The project From Wind Fills With Sand

Marina For Boats On Lake
Was designed By Wood Flooring And Steel Handrail

Cafeteria On Contour
Was Designed To Use The View Of Lake And Designed By Old Wooden Materials

OutDoor Playground
Was Designed To Help Kids To Interact With Surrounding Landscape

Wind Fence

Cafeteria

PlayGround

Boat Marine

Showing Inner Spine Circulation From Entrance To Cafeteria

Showing Lake Spine Circulation From Entrance To Cafeteria

Showing Brick Material V1
Brick Flooring Used Specialty For Lake Spine Connecting The Main Entrance To Contour Cafeteria And Also Inner Spine Connecting The Main Entrance To Contour Cafeteria .

Showing Brick Material V3
These Bricks Flooring Used For Paths Between Different Landscape Zones. They Are Designed For High Resistance Walking On It .

Showing Sand Material V5
Sand Material Used For One Side Of Site And Located In Contour , Mountain .

Showing Water Material V7
Concrete Water Material Used For Inner False Lakes An Whole Project and it Serves Defrence Between It And Lake Material Like Color And Reflections .

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Section Descriptions :

Section A-A , B-B

Section A-A :

- By using Section A-A Showing Defrence Between Main Entrance Level And Lake level which gives the largest amount of vision since entry location to the end of the Location , Said That Curved Spine giving largest amount of vision And Accessibility For Lake view since entry location to the end of the Location , By This Concept Used Also For Ramp And How it show relationship and the impact on the separation of the site into two parts The first part special to play the kids and the swimming pool and the other part is the movement of visitors and a special area of rare trees and More of Site Functions .

Section B-B :

- By using Section B-B Showing Defrence Between Side Road Of Neighbourhood Level And Cafeteria level which gives the largest amount of vision since Walking On ramp to the top of the cafeteria's contour , Showing Vision relationship between ramp , cafeteria and the lake and showing kids area and the other side entrance and how it separate into two main spines one of them connected with the main lake and other connected with whole site .

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These Bricks Flooring Used For Paths Between Different Landscape Zones. They Are Designed For High Resistance Walking On It .

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Sand Material Used For One Side Of Site And Located In Contour , Mountain .

Showing Water Material V7
Concrete Water Material Used For Inner False Lakes An Whole Project and it Serves Defrence Between It And Lake Material Like Color And Reflections .

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AIN SOKHNA RESORT

Ain-Sokhna, Egypt

Year : 2016

Project Status : Urban Design



DISTRICT DESIGN

Cairo, Egypt

Year : 2013

Project Status : Urban Design





URBAN DESIGN FOR CLUSTERS AND COMPOUND

Cairo , Egypt

Year : 2013

BUA : Various

Project Status : Urban Design

Urban design is the process of designing and shaping cities, towns and villages. In contrast to architecture, which focuses on the design of individual buildings, urban design deals with the larger scale of groups of buildings, streets and public spaces, whole neighborhoods and districts, and entire cities, with the goal of making urban areas functional, attractive, and sustainable.

Urban design is an inter-disciplinary subject that utilizes elements of many built environment professions, including landscape architecture, urban planning, architecture, civil and municipal engineering. It is common for professionals in all these disciplines to practice in urban design. In more recent times different sub-strands of urban design have emerged such as strategic urban design, landscape urbanism, water-sensitive urban design, and sustainable urbanism.

Urban design demands an understanding of a wide range of subjects from physical geography to social science, and an appreciation for disciplines, such as real estate development, urban economics, political economy and social theory.

Experince Gained :

- 1- Architecture Urban Design For Clusters And Districts .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Making Mass Modeling .

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Interior Design

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47 / 48	Black Classic Reception
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55 / 56	White Brick Apartment
57 / 58	Classic Bed Interior
59 / 60	Wooden Bedroom
61 / 62	Master Bedroom / Modern Bedroom
63 / 64	Black Bathroom
65 / 66	Red Brick Kitchen
67 / 68	Cuva Cafe



3DS MAX RECEPTION INTERIOR DESIGN

Cairo , Egypt

Year : 2014

Programs : 3Ds Max 2016 - Vray 3.2

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Vray for render.

Reception Design : Modern Style

Experince Gained :

- 1- Interior Design For Receptions .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Vray Engine .



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3DS MAX ETHNTIC RECEPTION INTERIOR DESIGN Cairo , Egypt

Year : 2014

Programs : 3Ds Max 2016 - Vray 3.2

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Vray for render.

Reception Design : Modern Style

Experince Gained :

1- Interior Design For Receptions .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

3- Vray Engine .

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3DS MAX BLACK CLASSIC RECEPTION INTERIOR DESIGN

Cairo , Egypt

Year : 2014

Programs : 3Ds Max 2016 - Vray 3.2

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Vray for render.

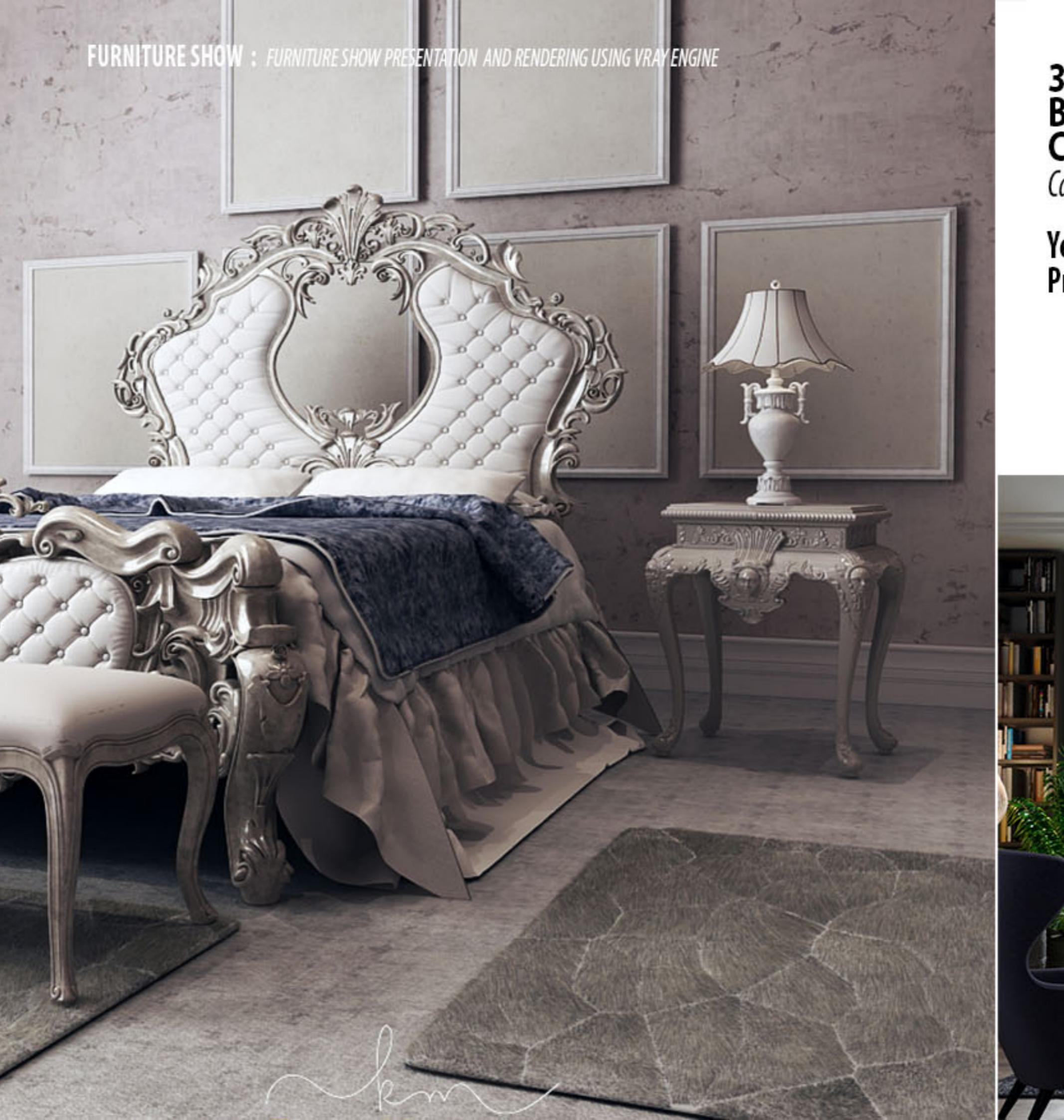
Reception Design : Modern Style

Experince Gained :

- 1- Interior Design For Receptions .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Vray Engine .



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LIBRARY RECEPTION : LIBRARY INTERIOR RECEPTION AND RENDERING USING VRAY ENGINE



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3 DIFFRENT INTERIOR PROJECT FROM LEFT TO RIGHT (BLUE PALACE - PRESENTATION FURNITURE - LIBRARY RECEPTION)

Cairo , Egypt

Year : 2012 - 2015

Project Status : VARIOUS

Experince Gained :

- 1-Interior Design For Diffrent Projects .
- 2-Gained Extra Experinces By Using 3Ds Max Modeling And Rendering By Vray .



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3DS MAX PINKY RECEPTION INTERIOR DESIGN

Cairo , Egypt

Year : 2017

Programs : 3Ds Max 2016 - Corona 1.6

Project Status : Reception Design

Here I'll show some shots of our new project !

Everything was done using 3Ds Max and Corona for render.

Reception Design : Modern Style

Experince Gained :

1- Interior Design For Receptions .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

3- Corona Engine .

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3DS MAX MOODS RECEPTION INTERIOR DESIGN

Cairo , Egypt

Year : 2016

Programs : 3Ds Max 2016 - Vray 3.4

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Corona for render.

Reception Design : Modern Style

Experince Gained :

1- Interior Design For Receptions .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

3- Vray Engine .

WHITE BRICK APARTMENT

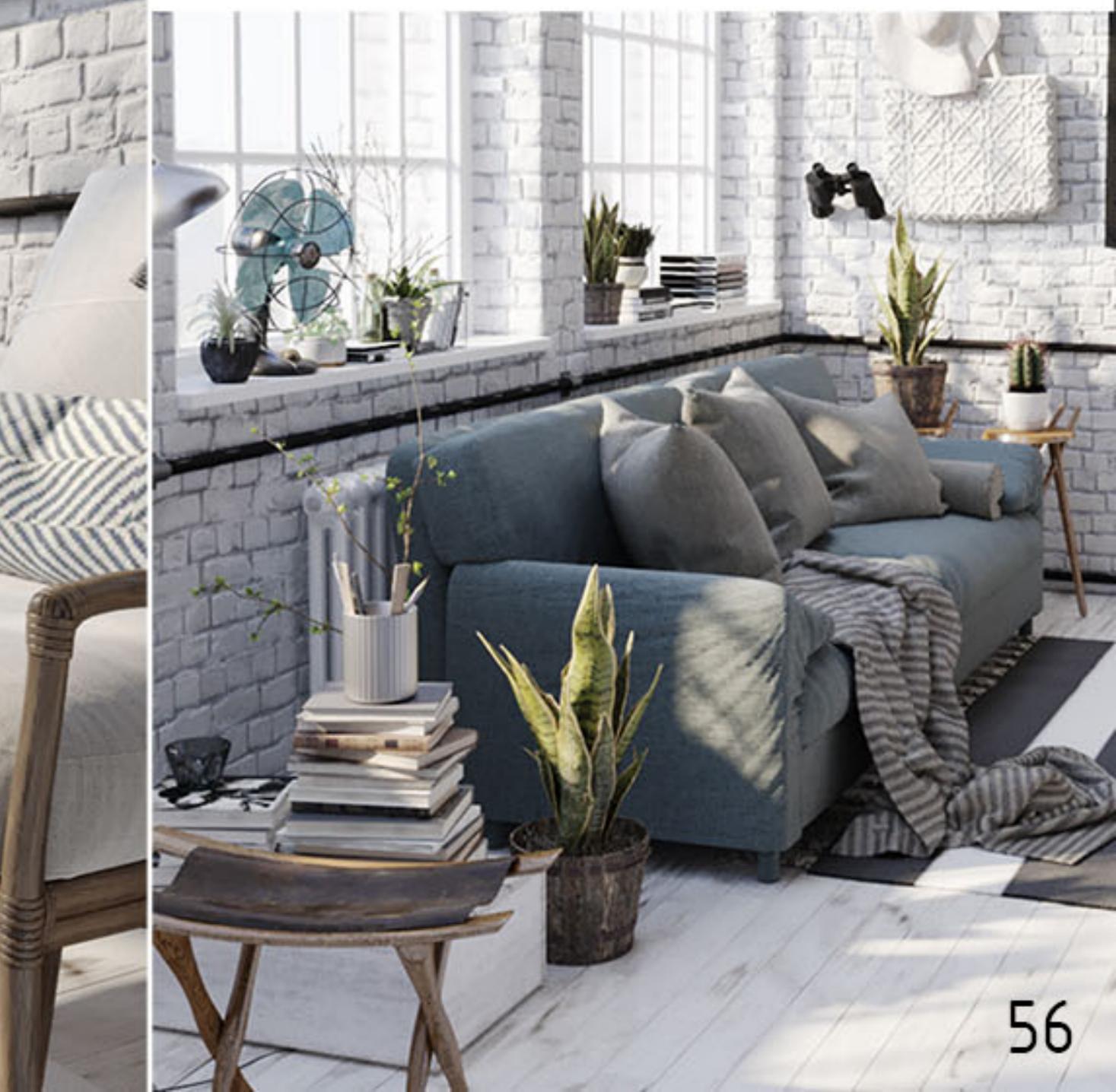
Cairo, Egypt

Year : 2017

Programs : 3Ds Max 2016 - Corona 1.6

Experince Gained :

- 1- Interior Design For Apartments .
- 2- Making White Bricks .





3DS MAX CLASSIC BED INTERIOR DESIGN

Cairo , Egypt

Year : 2014

Programs : 3Ds Max 2016 - Vray 3.2

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Vray for render.

Reception Design : Modern Style

Experince Gained :

- 1- Interior Design For Receptions .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Vray Engine .



3DS MAX WOODEN BEDROOM INTERIOR DESIGN

Cairo , Egypt

Year : 2014

Programs : 3Ds Max 2016 - Vray 3.2

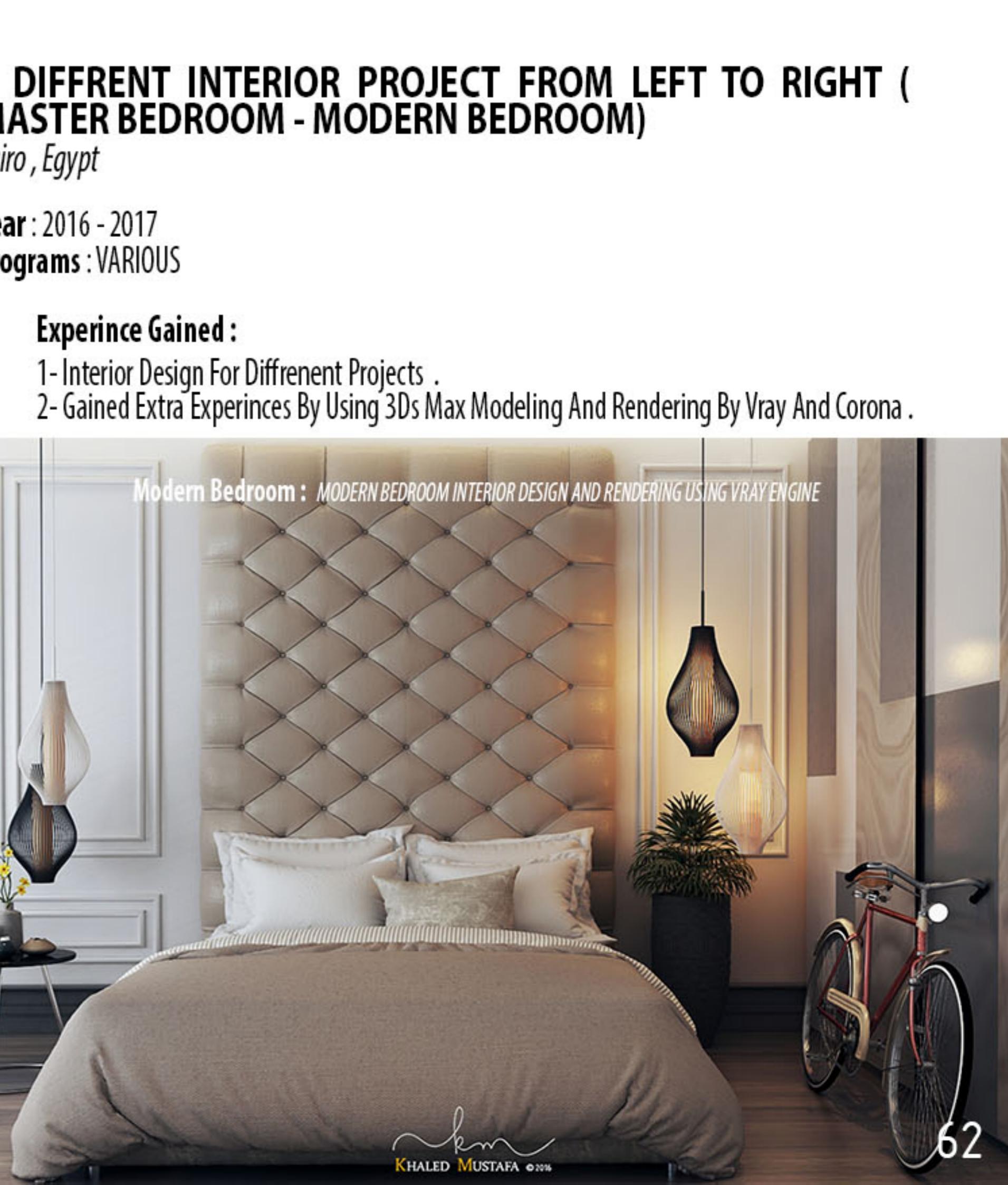
Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Vray for render.

Reception Design : Modern Style

Experince Gained :

- 1- Interior Design For Receptions .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling .
- 3- Vray Engine .



BLACK BATHROOM

Cairo, Egypt

Year : 2016 - 2017

Programs : 3Ds MAX 2016 - Corona 1.6

Experince Gained :

- 1- Interior Design For Diffrent Projects .
- 2- Gained Extra Experinces By Using 3Ds MAX 2016 - Corona 1.6 For Modeling And Rendering By Corona .





3DS MAX RED BRICK KITCHEN INTERIOR DESIGN

Cairo , Egypt

Year : 2017

Programs : 3Ds Max 2016 - Corona 1.6

Project Status : Reception Design

Here I'll show some shots of our new project !
Everything was done using 3Ds Max and Corona for render.

Reception Design : Modern Style

Experince Gained :

1- Interior Design For Receptions .

2- Gained Extra Experinces By Using 3Ds Max Modeling .

3- Corona Engine .

CUVA CAFE

Cairo, Egypt

Year : 2017

Project Status : 3Ds Max 2016 - Corona 1.6

Experince Gained :

- 1- Interior Design For Diffrent Projects .
- 2- Gained Extra Experinces By Using 3Ds Max Modeling And Rendering By Corona .



Contents

Working Drawings

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77 / 78	Working Stairs
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81 / 82	Working Bath
83 / 84	Working Stairs Honorable
85 / 86	Working Details

**Helwan UNIVERSITY
Faculty Of Fine Arts
ARCHITECTURAL DEP.**

**Commercial Court
Working Drawings**

Windows Table

Material	Dim	Height	Width	Count	Num.
Aluminum Window	80	280	160	6	W1
Aluminum Window	80	280	100	40	W2
Aluminum Window	80	280	80	12	W3
Aluminum Window	80	320	105	2	W4
Aluminum Window	150	140	80	4	W5
Aluminum Window	150	140	60	8	W6
Aluminum Window	00	430	150	2	W7
Aluminum Window	265	430	160	2	W8
Aluminum Window	300	160	80	10	W9
					W10
					W11
					W12
					W13

Doors Table

Material	Height	Width	Count	Num.
	220	90	6	D1
	220	100	23	D2
	220	150	7	D3
	200	90	8	D4
	250	120	2	D5
	310	250	1	D6

**Helwan UNIVERSITY
Faculty Of Fine Arts
ARCHITECTURAL DEP.**

**Commercial Court
Working Drawings**

Windows Table

Material	Dim	Height	Width	Count	Num.
Aluminum Window	80	280	160	W1	
Aluminum Window	80	280	100	W2	
Aluminum Window	80	280	80	W3	
Aluminum Window	80	280	105	W4	
Aluminum Window	150	140	80	W5	
Aluminum Window	150	140	60	W6	
Aluminum Window	00	430	150	W7	
Aluminum Window	265	430	160	W8	
Aluminum Window	300	160	80	W9	
					W10
					W11
					W12
					W13

Doors Table

Material	Height	Width	Count	Num.
	220	90	6	D1
	220	100	23	D2
	220	150	7	D3
	200	90	8	D4
	250	120	2	D5
	310	250	1	D6

**Helwan UNIVERSITY
Faculty Of Fine Arts
ARCHITECTURAL DEP.**

**Commercial Court
Working Drawings**

Project: Commercial Court
Architect: Khaled Mohamed Mustafa Metwally
4th YEAR ARCHITECTURE 61
DRAWING TITLE: Architecture Plans
DATE: 1:100
DRAWING NUMBER: A - 102

A - 102

Ground Floor Plan

Scale: 1:100

Dimensions: 100m x 100m

First Floor Plan

Scale: 1:100

Dimensions: 100m x 100m

**Helwan UNIVERSITY
Faculty Of Fine Arts
ARCHITECTURAL DEP.**

**Commercial Court
Working Drawings**

Project: Commercial Court
Architect: Khaled Mohamed Mustafa Metwally
4th YEAR ARCHITECTURE 61
DRAWING TITLE: Architecture Plans
DATE: 1:100
DRAWING NUMBER: A - 103

A - 103

First Floor Plan

Scale: 1:100

Dimensions: 100m x 100m

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A. North Elevation
SCALE: 1:100

B. West Elevation
SCALE: 1:100

C. South Elevation
SCALE: 1:100

Marble Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Wood Types

- 1- Egypt Zan Wood
- 2- Sweden Parquet
- 3- HOF Parquet Wood

Dimensions: 130x130x3 Cm HOF Venetile

Granite Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Carpet

Dimensions: Venetile

PROJECT: Commercial Court
Working Drawings
ARCHITECT: Khaled Mohamed Mustafa Metwally
4th YEAR ARCHITECTURE: 61
DRAWING TITLE: Architectural Elevations
SCALE: 1:100
DIMS IN METERS DATE:
DRAWING NUMBER: A - 201

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Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Marble Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Wood Types

- 1- Egypt Zan Wood
- 2- Sweden Parquet
- 3- HOF Parquet Wood

Dimensions: 130x130x3 Cm HOF Venetile

Granite Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Carpet

Dimensions: Venetile

PROJECT: Commercial Court
Working Drawings
ARCHITECT: Khaled Mohamed Mustafa Metwally
4th YEAR ARCHITECTURE: 61
DRAWING TITLE: Architectural Sections
SCALE: 1:50
DIMS IN METERS DATE:
DRAWING NUMBER: B - 301

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Marble Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Wood Types

- 1- Egypt Zan Wood
- 2- Sweden Parquet
- 3- HOF Parquet Wood

Dimensions: 130x130x3 Cm HOF Venetile

Granite Types

- 1- Red Verona Italy Marble
- 2- Alessandria Egypt Marble
- 3- Crema Novia Turkey Marble

Dimensions: 60x60x4 Cm Tile
120x120x4 Cm Tile
200x200x6 Cm Maximum Tile

Carpet

Dimensions: Venetile

PROJECT: Commercial Court
Working Drawings
ARCHITECT: Khaled Mohamed Mustafa Metwally
4th YEAR ARCHITECTURE: 61
DRAWING TITLE: Architectural Sections
SCALE: 1:50
DIMS IN METERS DATE:
DRAWING NUMBER: B - 301

PRODUCED BY AN AUTOODESK EDUCATIONAL PRODUCT

A - 402

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Floor Type (F1)

Marble Types

- 1- Red Venere Body Marble
- 2- Asterole Egyp Marble
- 3- Creme Nova Italy Marble

Dimensions : 80x804 Cm Tile 130x1274 Cm Tile 200x2006 Cm Maximum Tile

Floor Type (F2)

Wood Types

- 1- Egept Zen Wool
- 2- Sweden Parquet Wood Pariss
- 3- HOF Parquet Wood

Dimensions : 130x130 Cm HOF Veneire

Floor Type (F3)

Granite Types

- 1- Red Venere Body Marble
- 2- Asterole Egyp Marble
- 3- Creme Nova Italy Marble

Dimensions : 80x804 Cm Tile 130x1274 Cm Tile 200x2006 Cm Maximum Tile

Floor Type (F4)

Carbet

Dimensions : Veneire

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

PROJECT: Commercial Court

ARCHITECT: Khaled Mohamed Mustafa Metwally

4th YEAR ARCHITECTURE 61

DRAWING TITLE: Flooring Plans

SCALE: 1:50

DRIVING NUMBER: A-402

DRIVING IN METERS

DATE:

PRODUCED BY AN AUTOODESK EDUCATIONAL PRODUCT

1 GRANITE MECHANICAL/PORSLIN

2 Marble MECHANICAL/HDF

3 Fountain And Flooring Plan

4 Steel Ramp Structure Details

5 Fountain Section

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Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Floor Type (F1)

Marble Types

- 1- Red Venere Body Marble
- 2- Asterole Egyp Marble
- 3- Creme Nova Italy Marble

Dimensions : 80x804 Cm Tile 130x1274 Cm Tile 200x2006 Cm Maximum Tile

Floor Type (F2)

Wood Types

- 1- Egept Zen Wool
- 2- Sweden Parquet Wood Pariss
- 3- HOF Parquet Wood

Dimensions : 130x130 Cm HOF Veneire

Floor Type (F3)

Granite Types

- 1- Red Venere Body Marble
- 2- Asterole Egyp Marble
- 3- Creme Nova Italy Marble

Dimensions : 80x804 Cm Tile 130x1274 Cm Tile 200x2006 Cm Maximum Tile

Floor Type (F4)

Carbet

Dimensions : Veneire

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

PROJECT: Commercial Court

ARCHITECT: Khaled Mohamed Mustafa Metwally

4th YEAR ARCHITECTURE 61

DRAWING TITLE: Flooring Details

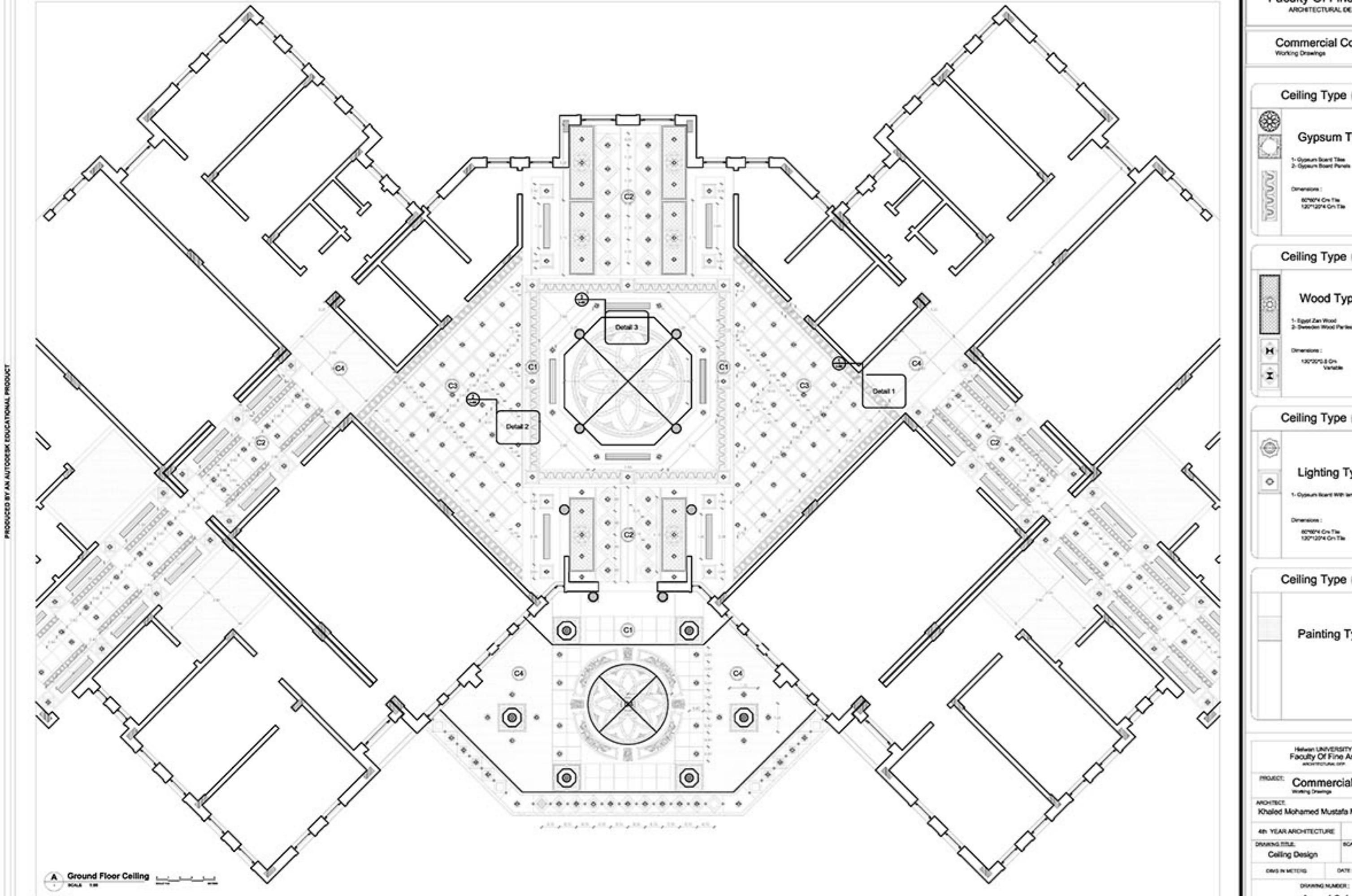
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DRIVING NUMBER: A-403

DRIVING IN METERS

DATE:

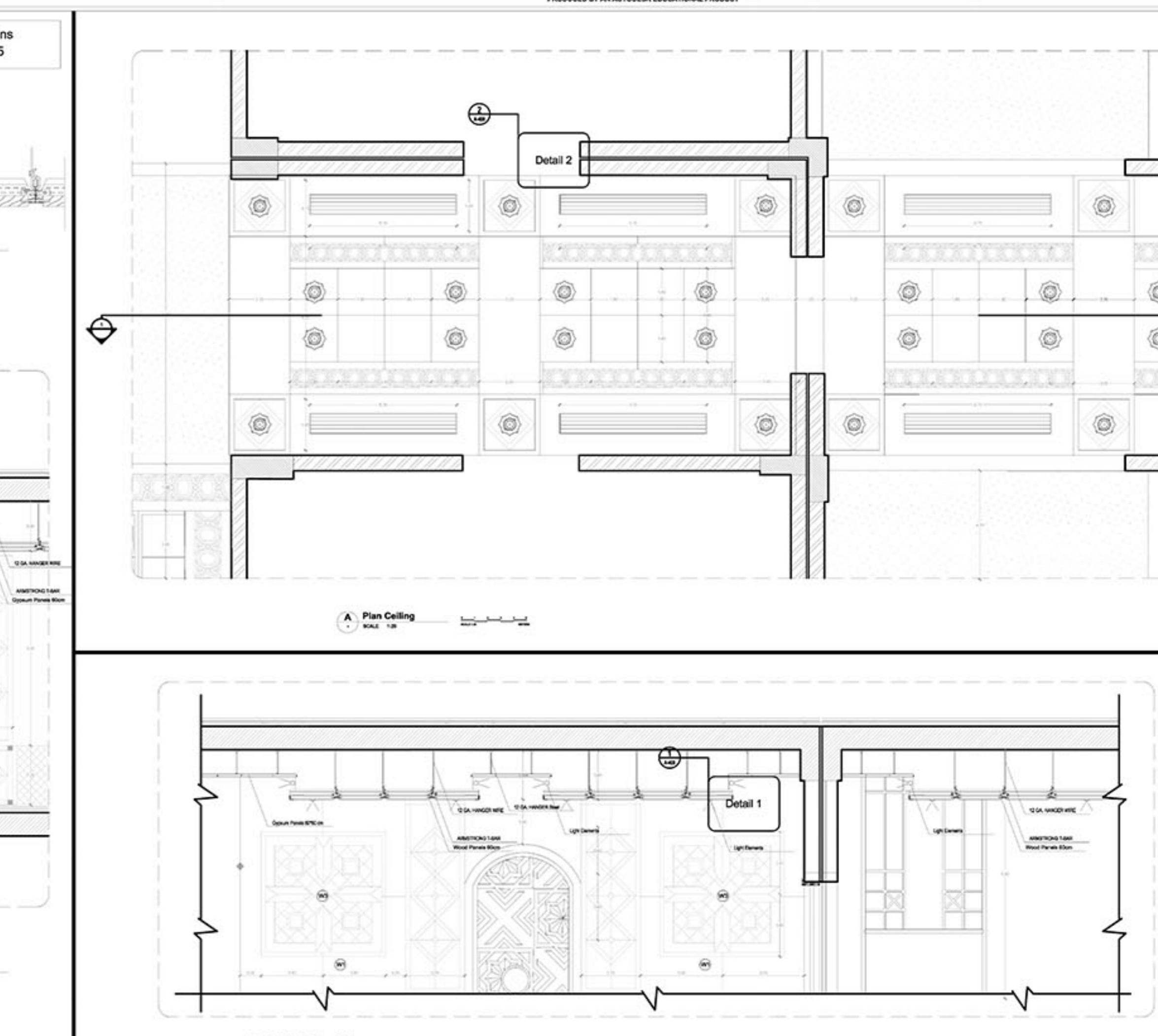
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75

The image contains three architectural drawings. At the top is a 'Wall Section' labeled 'A-A' with a scale of 1:25. Below it is 'Ceiling Detail 1' labeled 'C' with a scale of 1:10. At the bottom is 'Ceiling Detail 2' labeled 'D' with a scale of 1:10. The drawings show various ceiling and wall structures with dimensions and labels like 'WZ' and 'WY'. To the left of the drawings is a vertical column of text labels: 'ITY', 'e Arts', 'P.', 'ourt', 'C1', 'ypes', 'C2', 'es', 'C3', 'ypes', 'C4', 'ypes', '15', 'Court', 'Mentally', '61', 'LE', '1:50', and '1'.

ITY
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Court
Mentally
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1:50
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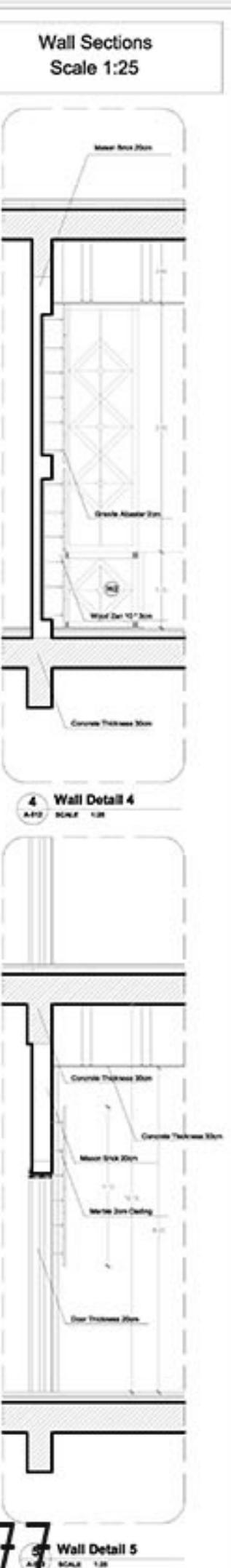


Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.	
Commercial Court Working Drawings	
Ceiling Type C1  Gypsum Types 1- Gypsum Board Tiles 2- Gypsum Board Panels Dimensions : 60*60*4 On The 120*120*4 On The	
Ceiling Type C2  Wood Types 1- Egypt Zan Wood 2- Sweden Wood Panels Dimensions : 130*20*0.8 On Variable	
Ceiling Type C3  Lighting Types 1- Gypsum Board With Lamp Dimensions : 60*60*4 On The 120*120*4 On The	
Ceiling Type C4  Painting Types	
Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP. PROJECT: Commercial Court Working Drawings ARCHITECT: Khaled Mohamed Mustafa Metwally 4TH YEAR ARCHITECTURE 61 DRAWING TITLE: Ceiling Design SCALE: 1:50 DRWS IN METERS DATE: DRAWING NUMBER: A - 405 76	

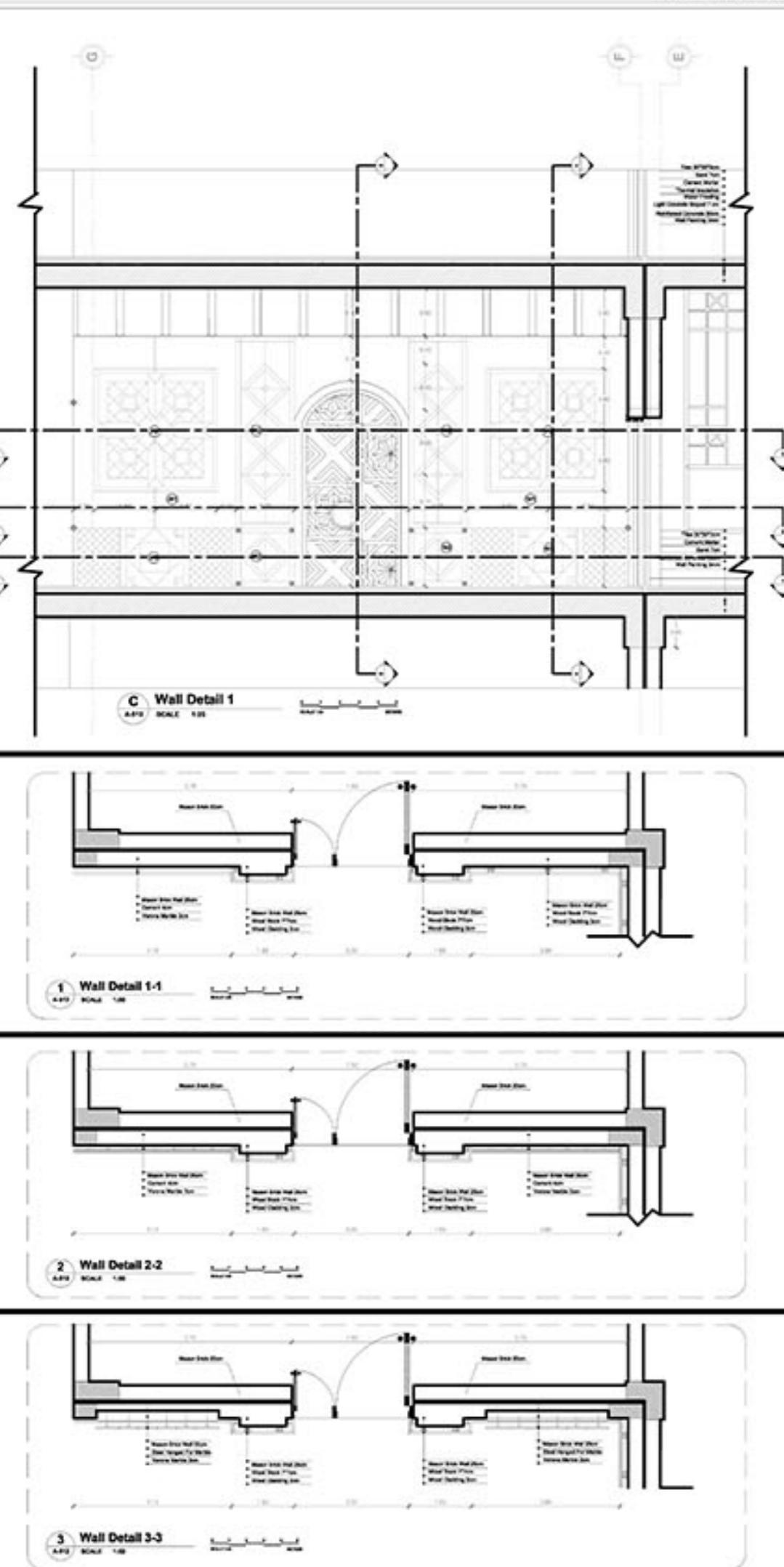
405 76

Wall Sections
Scale 1:25

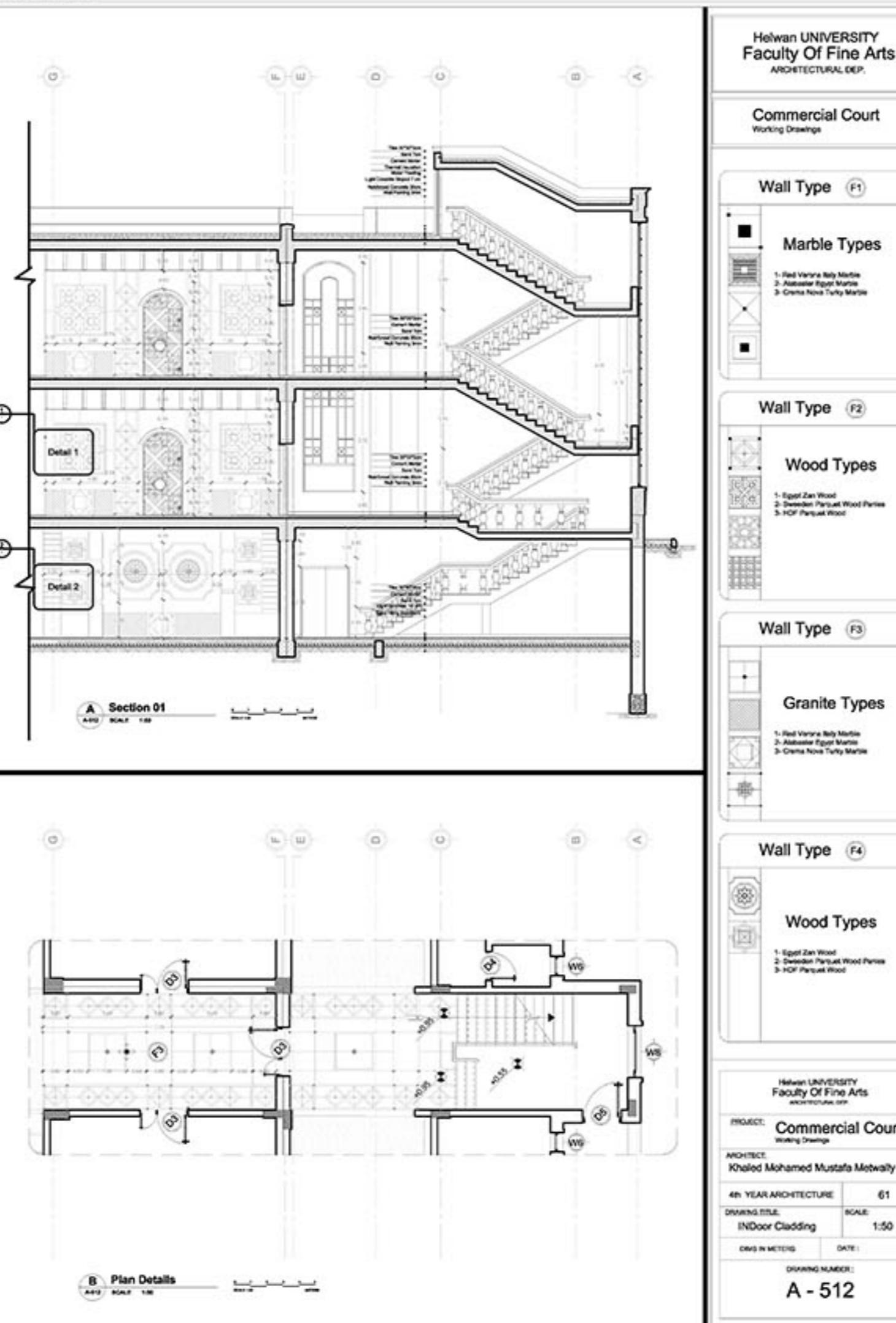
Scale 1:25



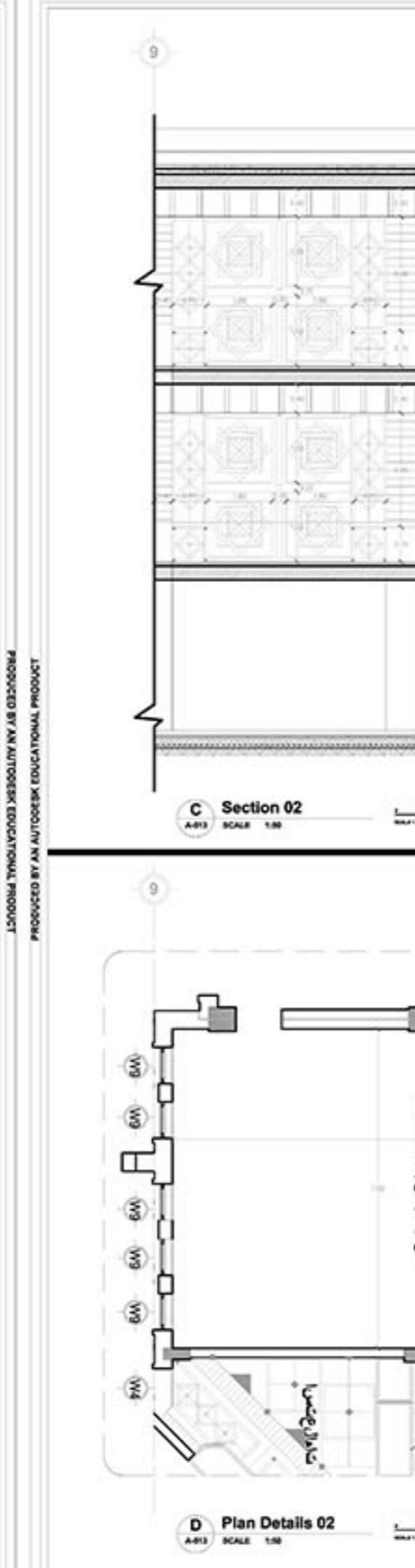
Wall Detail 5



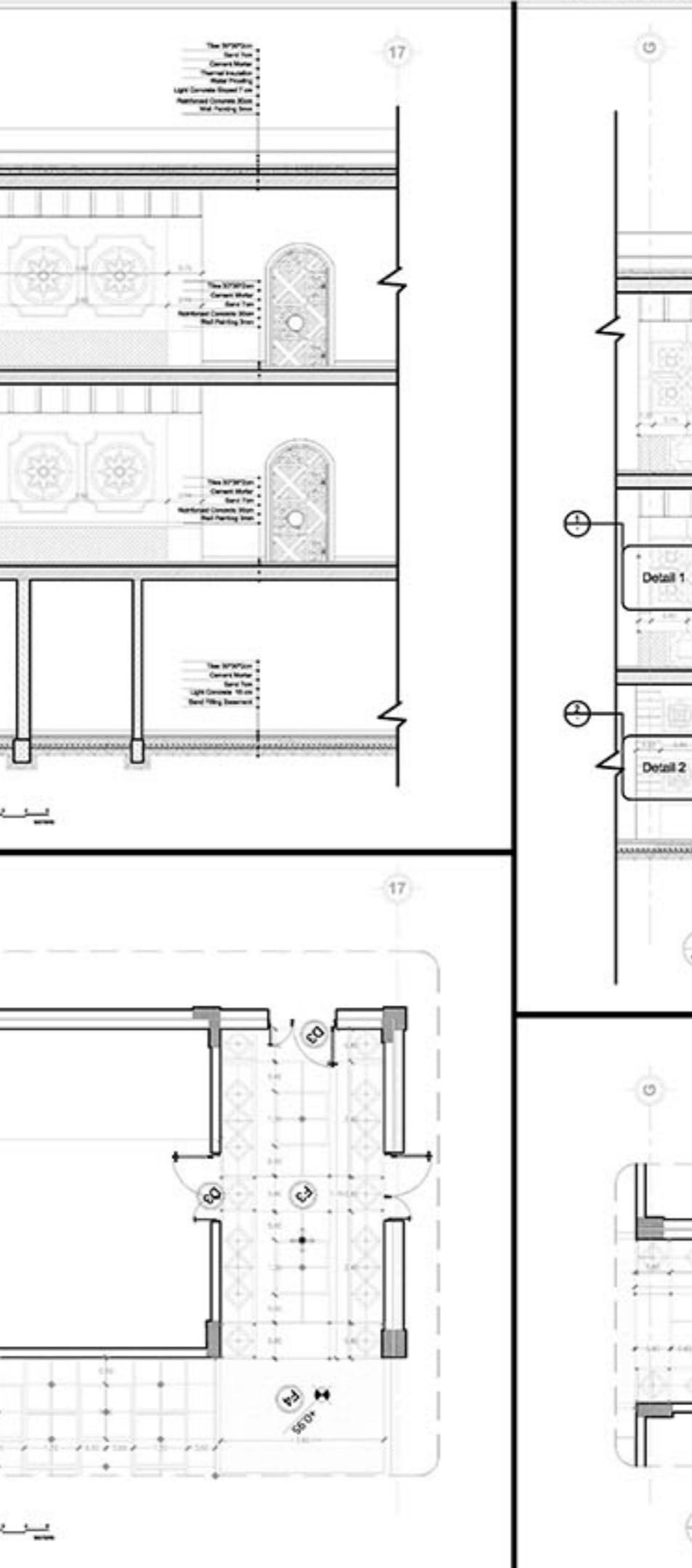
3 Wall Detail 3-3
A-F3 SCALE 1:60



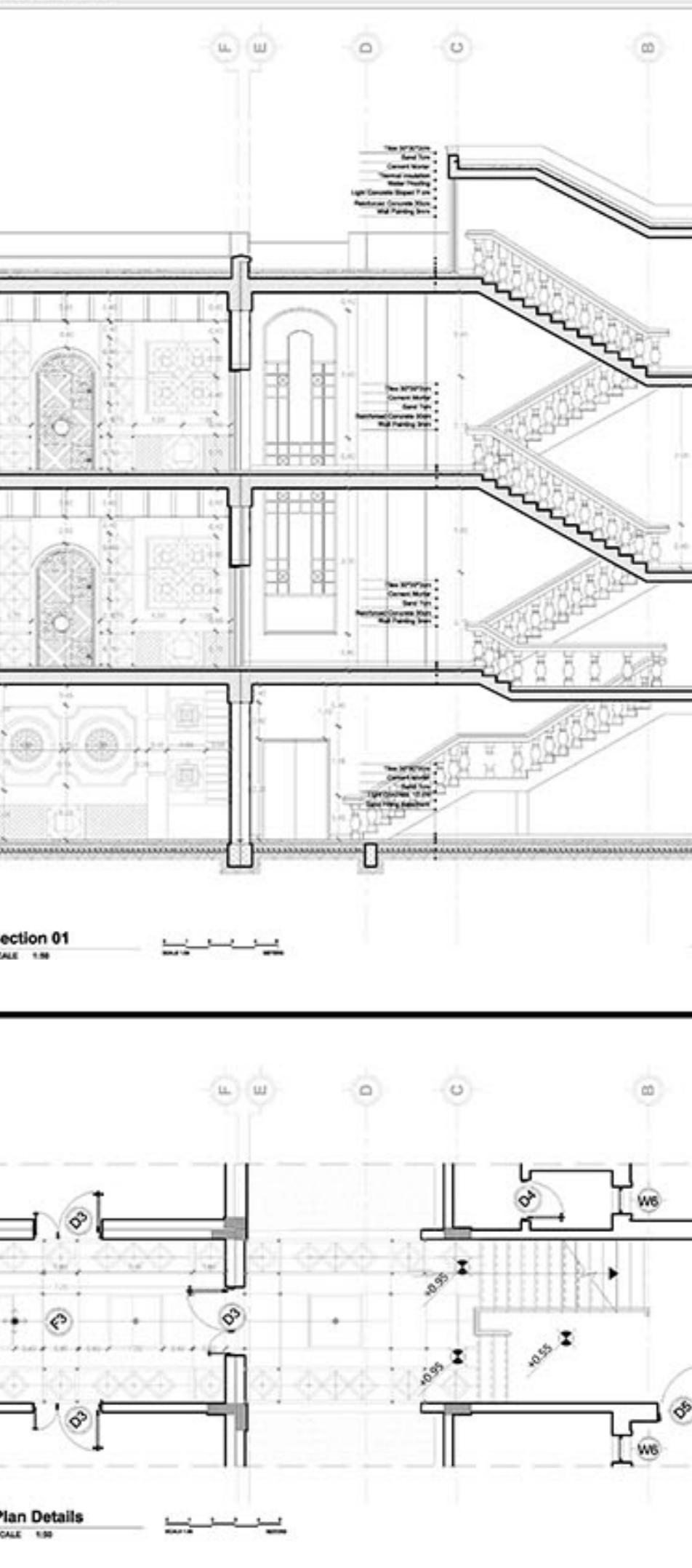
ANSWER



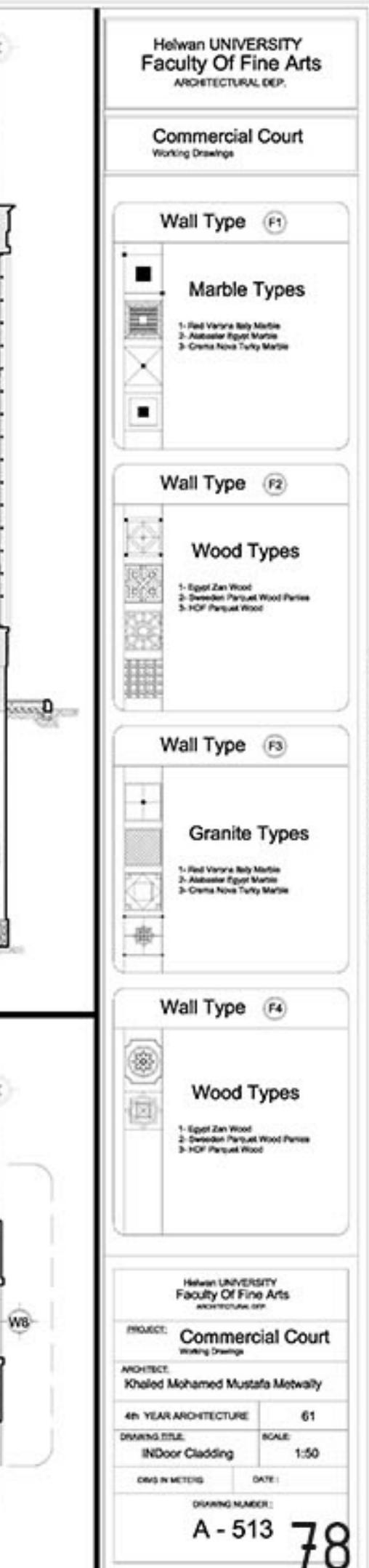
10 of 10



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DATE 5/99



1

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Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Wall Type (F1)

- Marble Types
 - Red Venetia Body Marble
 - Austrian Egger Marble
 - Cream Nova Turkey Marble

Wall Type (F2)

- Wood Types
 - Egyptian Zebrawood
 - Sweden Parquet Wood Panels
 - HDF Parquet Wood

Wall Type (F3)

- Granite Types
 - Red Venetia Body Marble
 - Austrian Egger Marble
 - Cream Nova Turkey Marble

Wall Type (F4)

- Wood Types
 - Egyptian Zebrawood
 - Sweden Parquet Wood Panels
 - HDF Parquet Wood

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

PROJECT: Commercial Court

ARCHITECT: Khaled Mohamed Mustafa Metwally

4th YEAR ARCHITECTURE: 61

DRAWING TITLE: Outdoor Cladding

SCALE: 1:50

DRAWING NUMBER: A - 506

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Wall Sections Scale 1:25

W1

A Plan Detail 2-2

B Plan Detail 3-3

C Plan Detail 1-1

PRODUCED BY AN AUTOODESK EDUCATIONAL PRODUCT

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

Wall Type (F1)

- Marble Types
 - Red Venetia Body Marble
 - Austrian Egger Marble
 - Cream Nova Turkey Marble

Wall Type (F2)

- Wood Types
 - Egyptian Zebrawood
 - Sweden Parquet Wood Panels
 - HDF Parquet Wood

Wall Type (F3)

- Granite Types
 - Red Venetia Body Marble
 - Austrian Egger Marble
 - Cream Nova Turkey Marble

Wall Type (F4)

- Wood Types
 - Egyptian Zebrawood
 - Sweden Parquet Wood Panels
 - HDF Parquet Wood

Helwan UNIVERSITY Faculty Of Fine Arts ARCHITECTURAL DEP.

Commercial Court Working Drawings

PROJECT: Commercial Court

ARCHITECT: Khaled Mohamed Mustafa Metwally

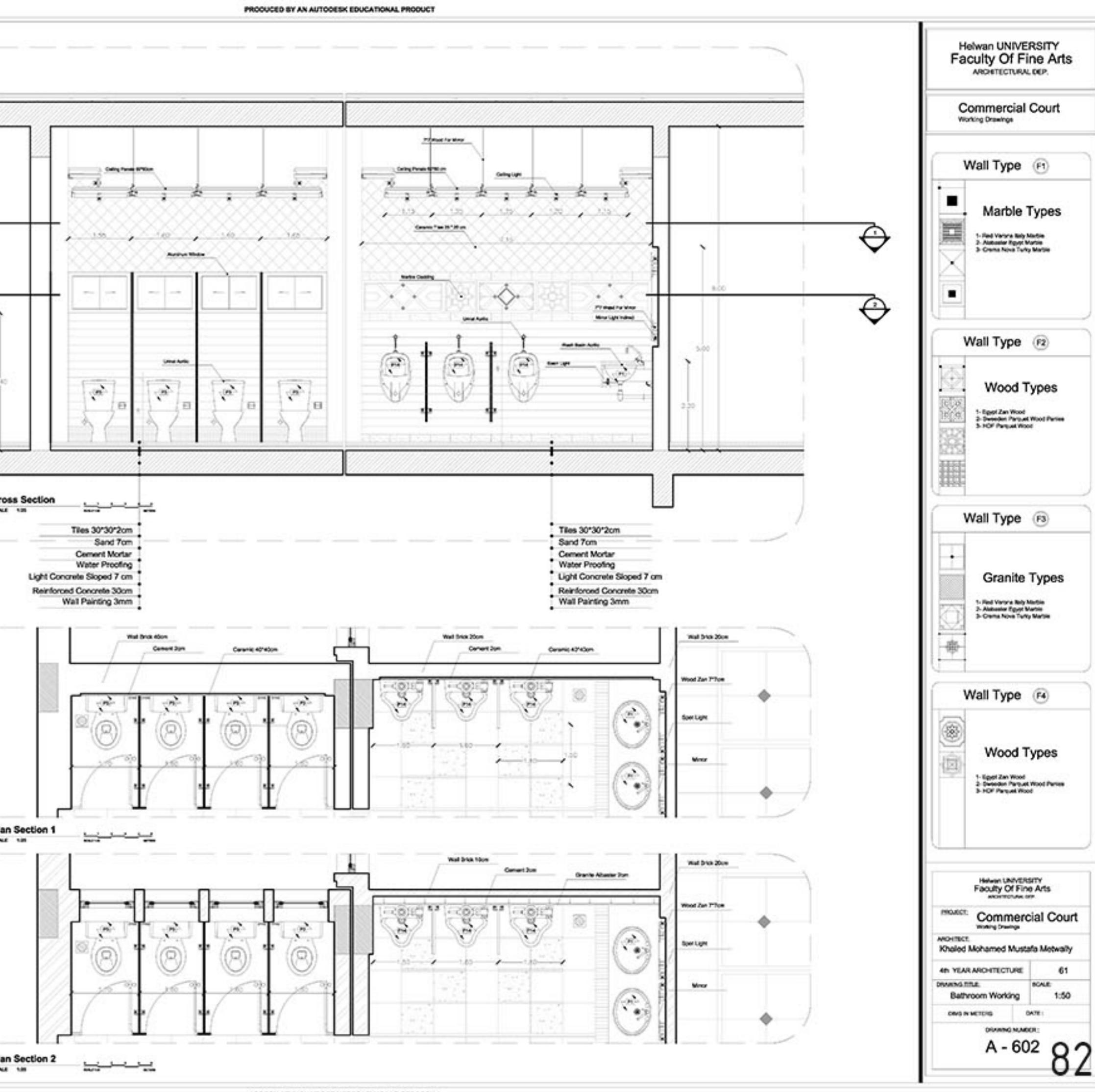
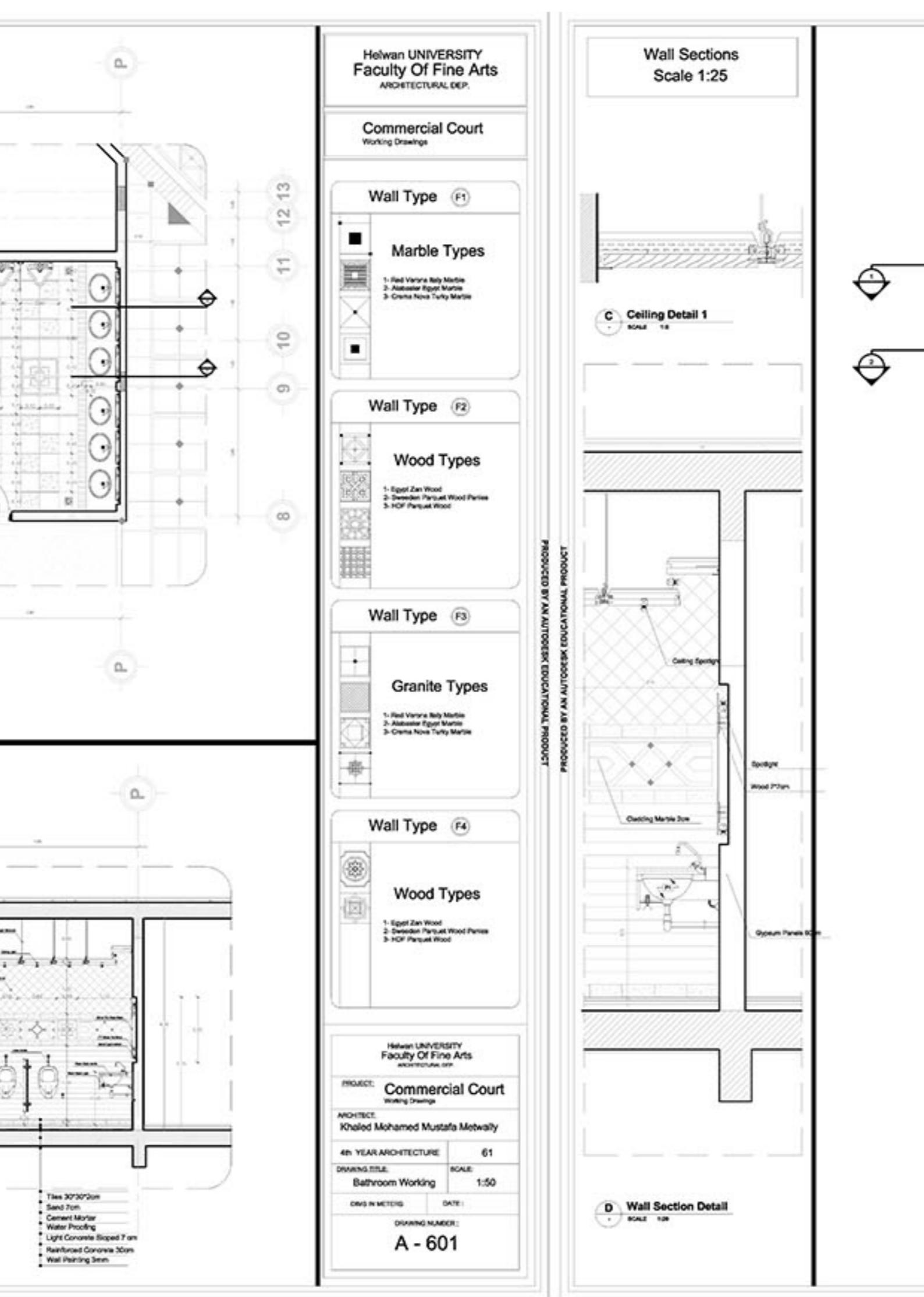
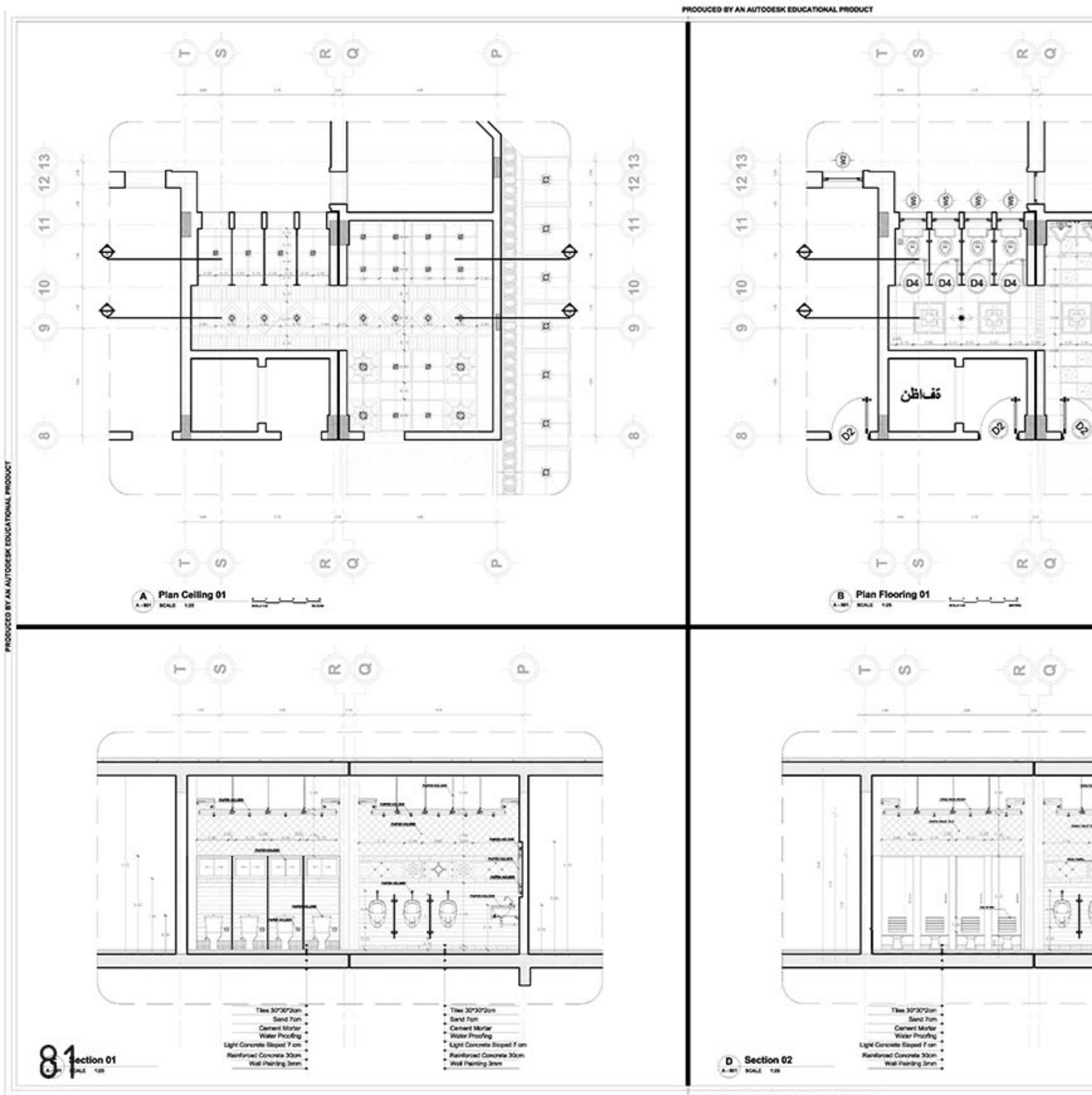
4th YEAR ARCHITECTURE: 61

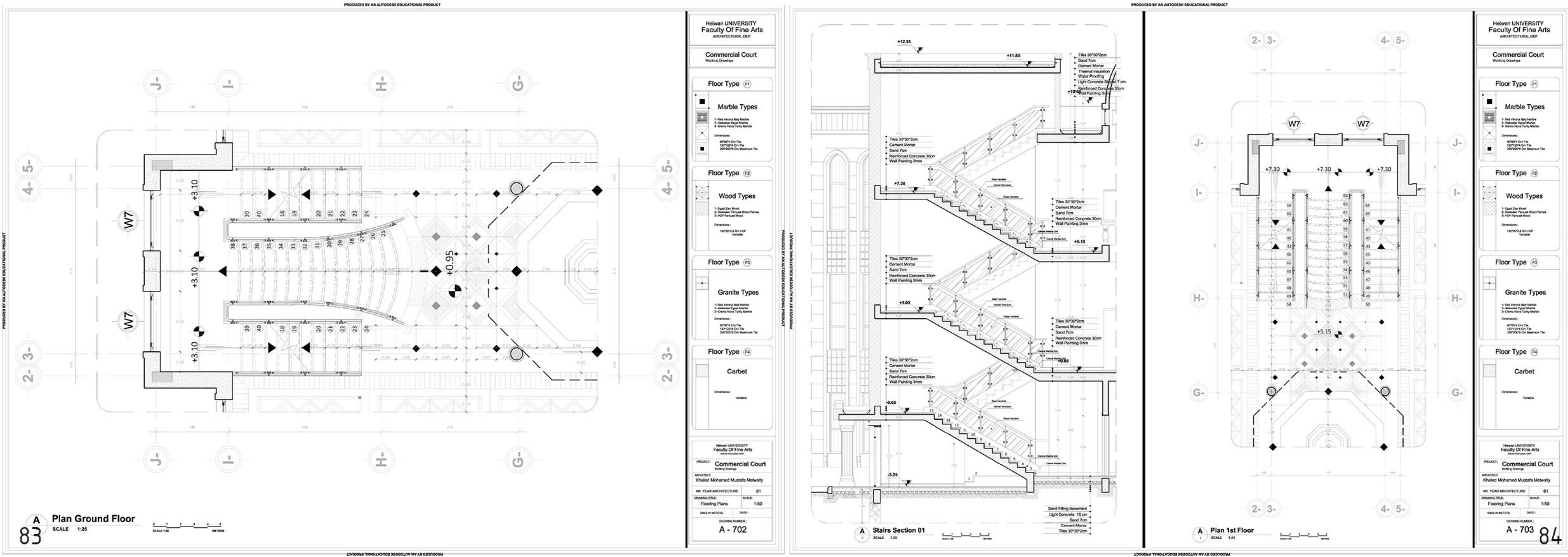
DRAWING TITLE: Outdoor Cladding

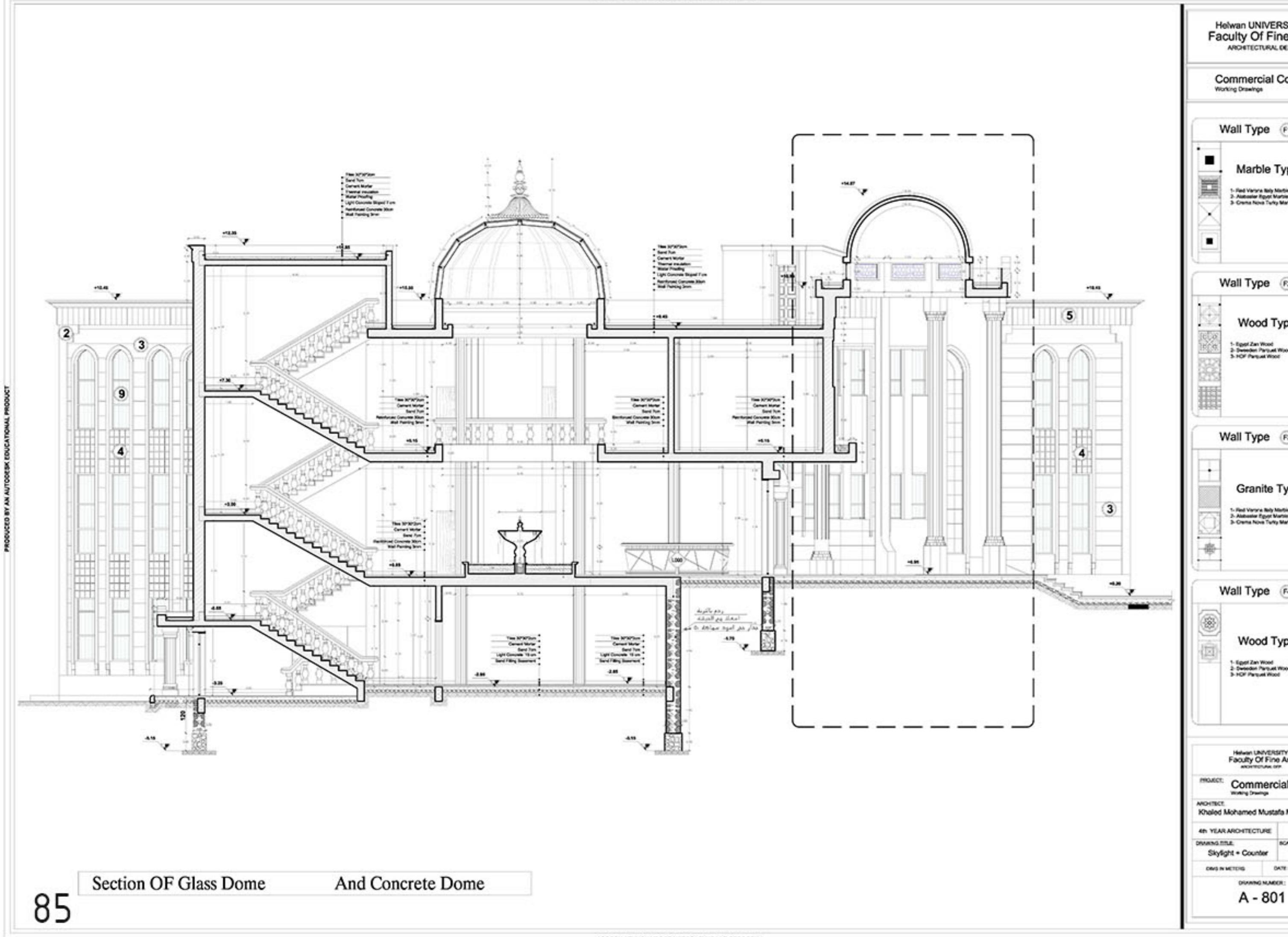
SCALE: 1:50

DRAWING NUMBER: A - 507

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Section OF Glass Dome

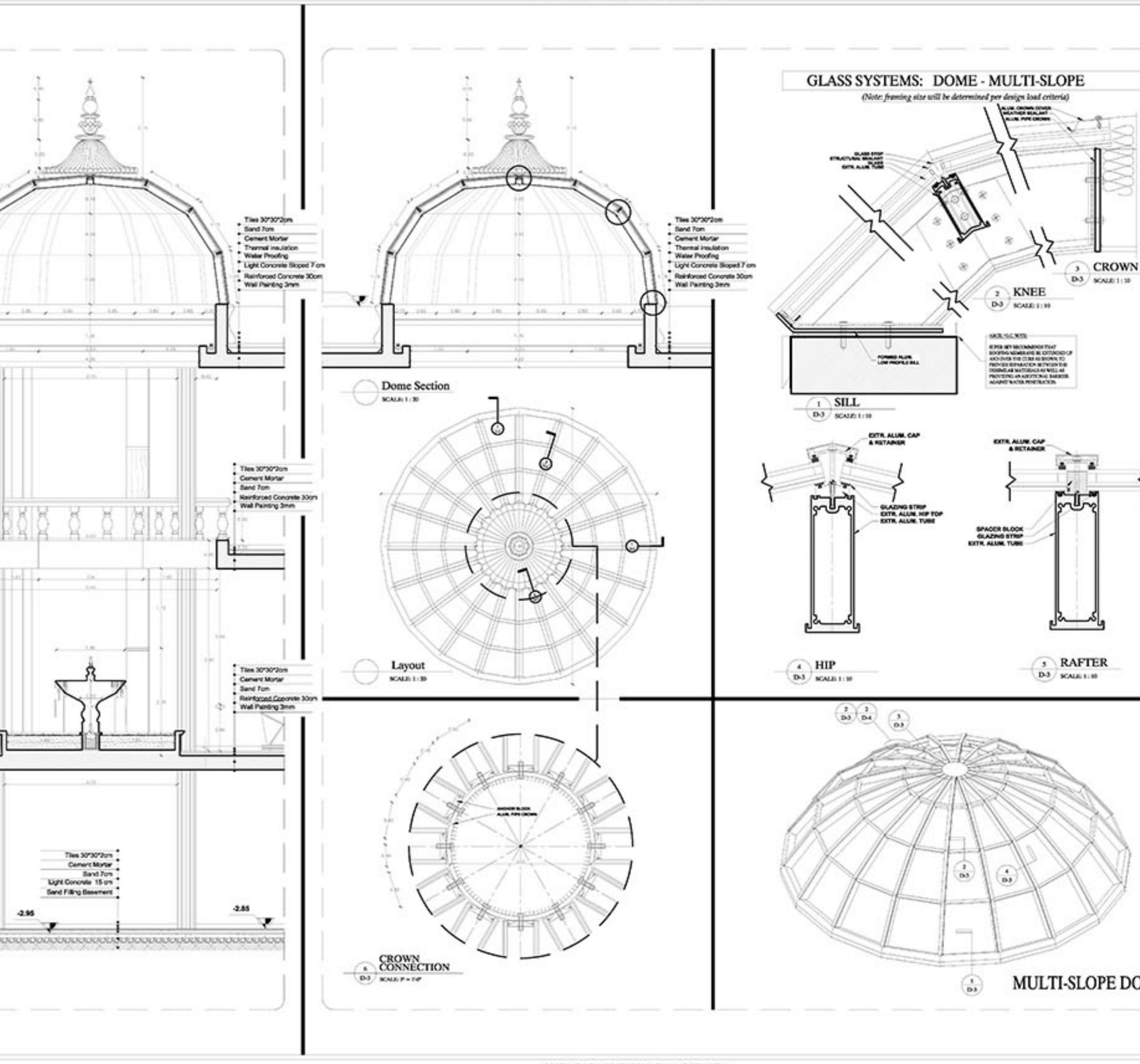
Concrete Dome

85

The figure is an architectural cross-section diagram of a building's foundation and lower levels. It shows four distinct levels of walls, each with a thickness of 1.00 m. The top level has a height of 3.00 m. The second level down has a height of 3.00 m. The third level down has a height of 3.00 m. The bottom level is at ground level. A central staircase is located between the second and third levels. Vertical dimensions are indicated on the left side of the diagram, with elevations +10.55 and +5.15 marked above the top and second levels respectively. Horizontal dimensions are indicated along the base of the walls.

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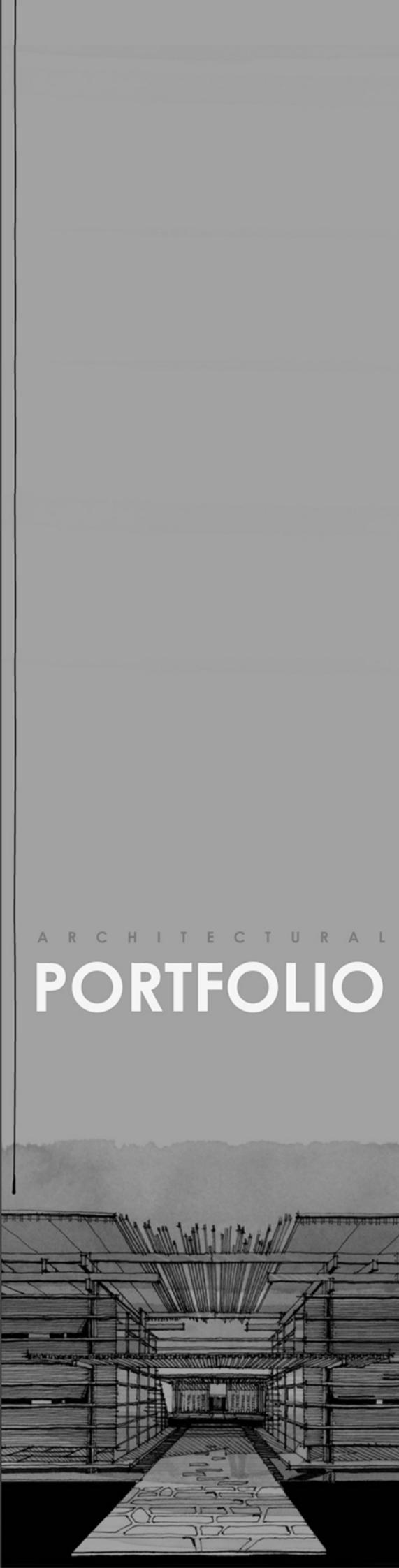
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MULTI-SLC

A - 802 86

ARCHITECTURAL
PORTFOLIO



Thank You !

For Your Time

KHALED MUSTAFA METWALLY - 01116725335 - Khaled.mustafa09@gmail.com