

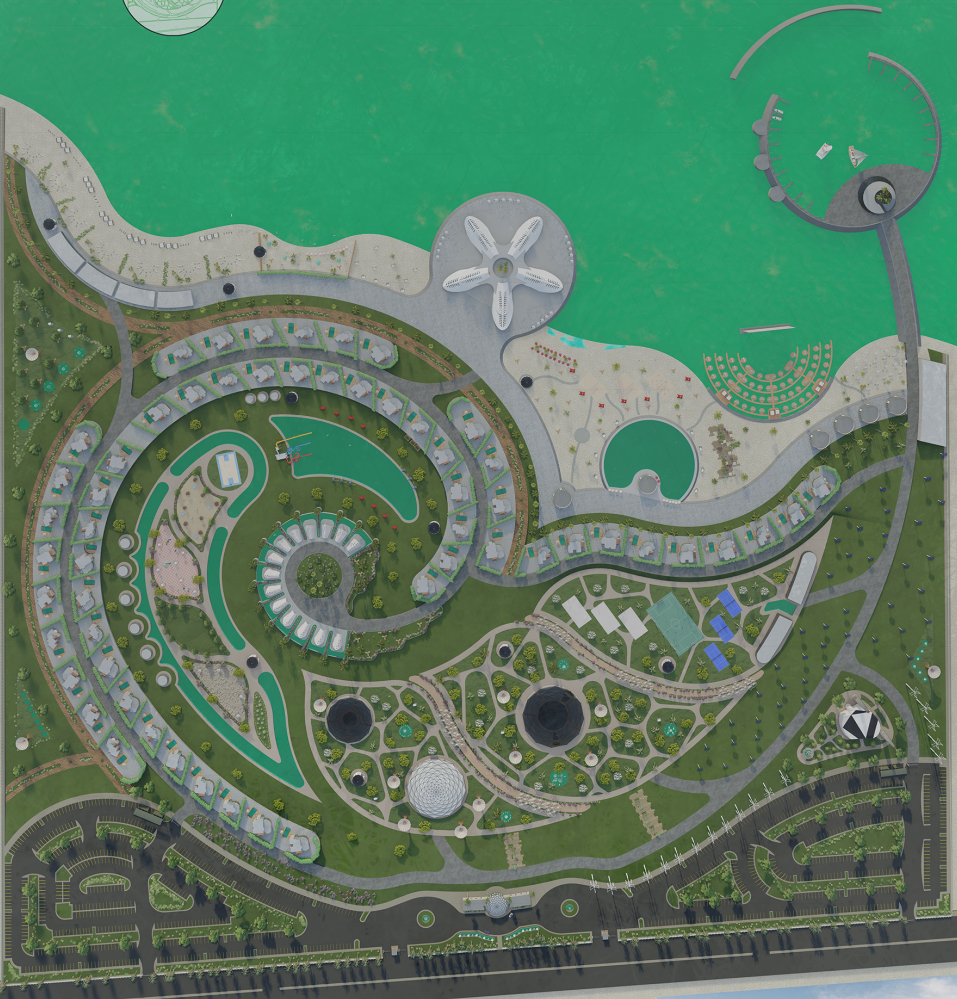
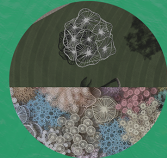
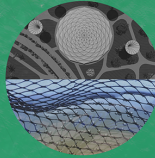


INTRODUCTION:

THE PROJECT IS LOCATED ON FARASAN ISLAND SPECIFICALLY WITH COORDINATES 16°42'30.3"N 42°01'56.2"E AND IT IS LOCATED ON AN AREA OF 625,000 SQUARE METERS.

CONCEPT:

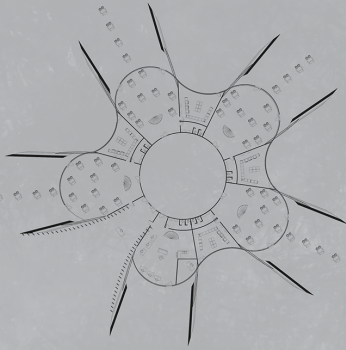
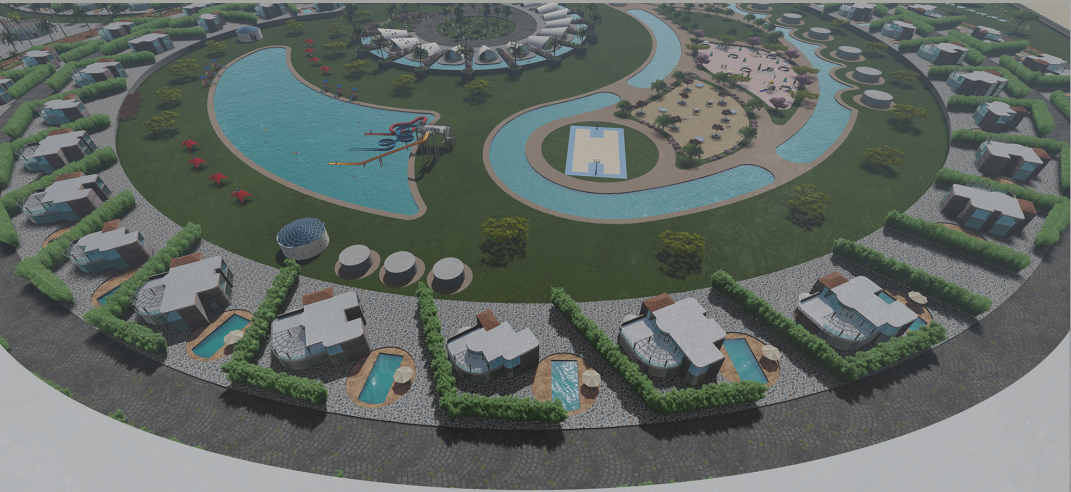
IT IS A COMBINATION OF A MARINE ORGANISM, FISHING NET AND THE FAMOUS JASMINE FLOWER IN THE REGION.





SENIOR DESIGN PROJECT TOURIST VILLAGE

STUDENT NAME: KHALED HADI MAHDI SAHL ID:201401962
SUPERVISING ENGINEER: OSAMA AL-SIR



RESTURANTS PLAN SCALE 1:300



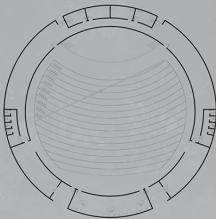
RESTURANTS SECTION SCALE 1:300



ADMINISTRATIVE BUILDING PLAN SCALE 1:200



ADMINISTRATIVE BUILDING SECTION SCALE 1:200



MULTIPURPOSE HALL PLAN SCALE 1:250



MULTIPURPOSE HALL SECTION SCALE 1:250



GROUND FLOOR PLAN VILLA -A- SCALE 1:100



GROUND FLOOR PLAN VILLA -B- SCALE 1:100

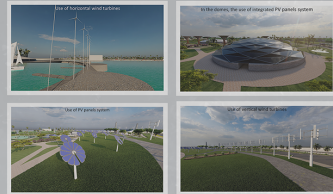


GROUND FLOOR PLAN VILLA -C- SCALE 1:100



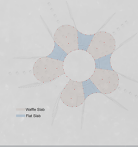
VILLA SECTION SCALE 1:100

STUDIES: SUSTAINABILITY



STRUCTURE

Structural system used: **beam and column structure**



ACOUSTICS

Study of acoustics in the theater of the tourist village

Room	Volume (m³)	Reverberation Time (s)
Room 1	1000	1.5
Room 2	2000	1.8
Room 3	3000	2.0
Room 4	4000	2.2
Room 5	5000	2.4
Room 6	6000	2.6
Room 7	7000	2.8
Room 8	8000	3.0
Room 9	9000	3.2
Room 10	10000	3.4

LIGHTING

Room	Area (m²)	Lighting Level (lx)
Room 1	100	100
Room 2	200	200
Room 3	300	300
Room 4	400	400
Room 5	500	500
Room 6	600	600
Room 7	700	700
Room 8	800	800
Room 9	900	900
Room 10	1000	1000

HAVC

Study of HVAC in a residential villa model in the tourist village

Room	Volume (m³)	Load (kW)
Room 1	1000	1.5
Room 2	2000	3.0
Room 3	3000	4.5
Room 4	4000	6.0
Room 5	5000	7.5
Room 6	6000	9.0
Room 7	7000	10.5
Room 8	8000	12.0
Room 9	9000	13.5
Room 10	10000	15.0

