DAR AL WASL

WHERE A HOUSE BECOMES A BOND, AND SHELTER BECOMES A HOME **SA3001**

PROJECT DESCRIPTION

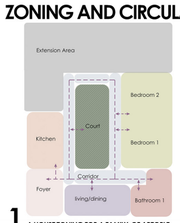
DAR AL-WASL IS NOT JUST A HOUSE — IT IS A STORY OF CONNECTION, DIGNITY, AND HOPE. IT BRINGS PEOPLE CLOSER TO EACH OTHER, TO THEIR ROOTS, AND TO THE LAND THEY LIVE ON.
DESIGNED FOR LOW-INCOME FAMILIES ,IT RESPECTS BOTH PEOPLE'S NEEDS AND THE HARSH CLIMATE. AN INNER COURTYARD AND TRADITIONAL WIND CATCHERS (DESIGNED WITH A NEW CONCEPT) BREATHE LIFE INTO THE SPACE, OFFERING NATURAL COOLING AND COMFORT ALL YEAR ROUND. PRIVACY — SO DEAR TO OUR CULTURE — IS PROTECTED THROUGH THOUGHTFUL ORIENTATION ,OPENINGS AND A DISCREET ENTRANCE THAT WELCOMES WITHOUT EXPOSING.

WITH SIMPLE YET SMART SOLUTIONS LIKE THE FILLING SLAB ROOF, CLIMBING GREENERY, AND RAINWATER REUSE, THE HOUSE STAYS COOL, AFFORDABLE, AND ALIVE WITH NATURE. SOLAR ENERGY MAKES IT EVEN MORE SUSTAINABLE AND LIGHT ON EXPENSES.

A HOME THAT BELONGS ANYWHERE—DESIGNED TO ADAPT TO ANY COUNTRY. LOCAL MATERIALS, SUITABLE PLANTS, AND OPTIMAL ORIENTATION TO PREVAILING WINDS ENSURE A COST EFFICIENT AND SUSTAINABLE BUILD WHEREVER IT IS REALIZED.

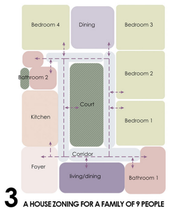
THE BUILDING IS A SINGLE-STORY STRUCTURE FEATURING A MODERN TAKE ON THE TRADITIONAL MALQAF (WIND CATCHER), SPANNING THE NORTH AND SOUTH FAÇADES. IT IS ENCLOSED WITH RECYCLED WOODEN PANELS ARRANGED IN A MAFRUKA-INSPIRED MOTIF, WHICH ALSO TOPS THE DOUBLE-LAYERED EASTERN AND WESTERN WALLS. USING RECLAIMED WOOD ADDS SUSTAINABILITY, AND THE MOTIF CAN BE ADAPTED TO REFLECT LOCAL IDENTITY.

ZONING AND CIRCULATION DIAGRAM



1 A HOUSE ZONING FOR A FAMILY OF 4 PEOPLE

2 A HOUSE ZONING FOR A FAMILY OF 6 PEOPLE



3 A HOUSE ZONING FOR A FAMILY OF 9 PEOPLE

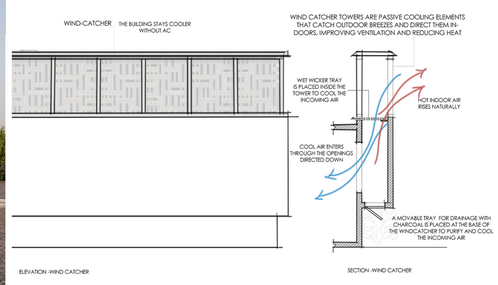
THE PROJECT TACKLES THE CHALLENGE OF CREATING A FULLY FUNCTIONAL, COMFORTABLE HOME FOR NINE RESIDENTS WITHIN A COMPACT 150 M² FOOTPRINT — BALANCING COST EFFICIENCY WITH THOUGHTFUL SPATIAL PLANNING AND MODERN COMFORT."

THE MAIN ENTRANCE IS POSITIONED ON A SECONDARY SIDE STREET RATHER THAN THE PRIMARY ROAD, ENSURING ENHANCED PRIVACY FOR THE HOUSEHOLD. UPON ENTERING, THE KITCHEN AND THE LIVING/DINING AREAS ARE PLACED NEAR THE FOYER, FACILITATING EASY MOVEMENT AND ACCESS FOR DAILY ACTIVITIES AND GATHERINGS.
AT THE HEART OF THE HOME LIES A CENTRAL COURTYARD, WHICH SERVES MULTIPLE PURPOSES: IT ENHANCES CROSS-VENTILATION, INTRODUCES NATURAL LIGHT, AND CREATES A PLEASANT VISUAL AND FUNCTIONAL CORE FOR FAMILY INTERACTION.
THE PRIVATE ZONES — INCLUDING THE BEDROOMS AND BATHROOM — ARE ARRANGED TO ENSURE CLOSE PROXIMITY TO SANITARY FACILITIES, PROVIDING CONVENIENCE WHILE MAINTAINING A CLEAR SEPARATION FROM THE PUBLIC AREAS.
AS SHOWN IN THE PLAN, A FUTURE EXTENSION AREA HAS ALSO BEEN CAREFULLY STUDIED AND DESIGNATED, ALLOWING FOR POTENTIAL EXPANSION OF THE HOUSE IN A SEAMLESS AND EFFICIENT MANNER.

ADDITIONALLY, IN THIS EXTENDED MODEL, A DEDICATED DINING AREA HAS BEEN INCORPORATED, AND THE LIVING SPACE HAS BEEN ENLARGED TO COMFORTABLY ACCOMMODATE ALL FAMILY MEMBERS.

3D DIAGRAM

WINDCATCHER STUDY



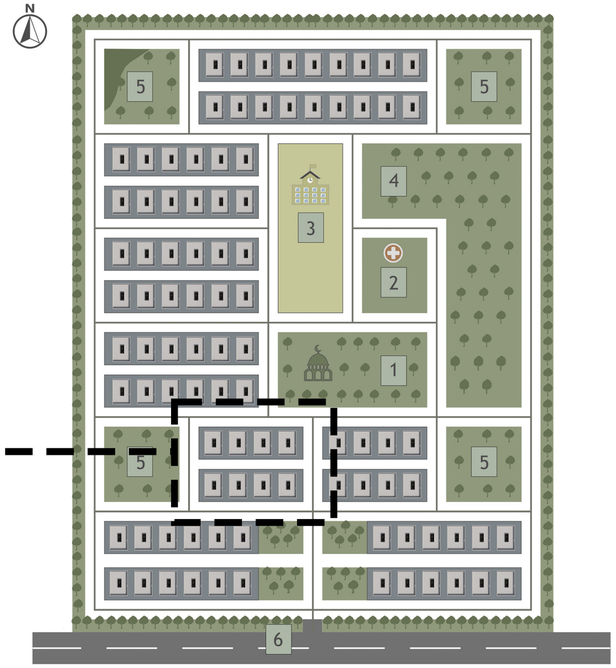
TREES STUDY

PLANTING PRODUCTIVE TREES SUCH AS DATE PALMS AND OLIVE TREES SUPPORTS THE HOUSEHOLD'S FOOD SECURITY WHILE ENHANCING SUSTAINABILITY. THESE TREES THRIVE IN THE LOCAL CLIMATE, REQUIRE MINIMAL MAINTENANCE, AND PROVIDE A CONTINUOUS SOURCE OF NUTRITIOUS FOOD AND FURNITURE RAW MATERIAL (PALM FRONDS). ANY SURPLUS HARVEST CAN BE SOLD OR EXCHANGED, CREATING SMALL INCOME OPPORTUNITIES FOR LOW-INCOME FAMILIES. IN ADDITION, THEY OFFER NATURAL SHADING, IMPROVE THE MICROCLIMATE, AND REDUCE INDOOR ENERGY NEEDS.

MASTERPLAN LAYOUT

THE MASTER PLAN WAS THOUGHTFULLY DESIGNED TO MEET THE CORE NEEDS OF THE RESIDENTIAL VILLAGE, INTEGRATING KEY FACILITIES SUCH AS A MOSQUE, SCHOOL, HEALTH CLINIC, SPORTS ACADEMY, AND RECREATIONAL AREAS. THE MOSQUE WAS CENTRALLY LOCATED TO SERVE AS BOTH A SPIRITUAL AND SOCIAL HUB, WHILE THE SCHOOL'S PLACEMENT NEAR IT ENSURES SAFETY AND ACCESSIBILITY FOR FAMILIES. THE SPORTS ACADEMY WAS POSITIONED ON THE OUTSKIRTS TO MINIMIZE NOISE DISTURBANCE. RESIDENTIAL UNITS WERE ORIENTED NORTH-

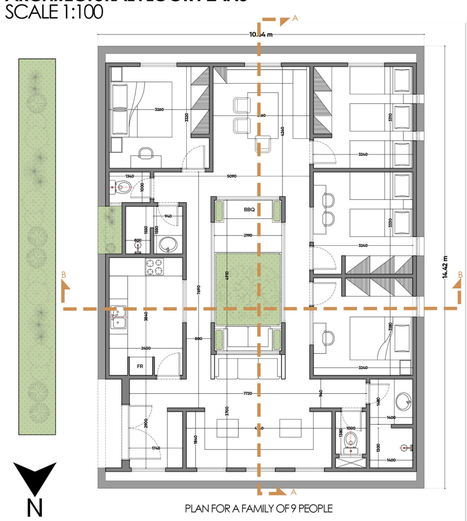
TO OPTIMIZE VENTILATION THROUGH TRADITIONAL WIND CATCHERS. A SURROUNDING GREEN BUFFER OF TREES ENHANCES AIR QUALITY, PROVIDES SHADE, ACTS AS A WINDBREAK, REDUCES NOISE, SUPPORTS BIODIVERSITY, AND NATURALLY DEFINES THE VILLAGE'S BOUNDARY.



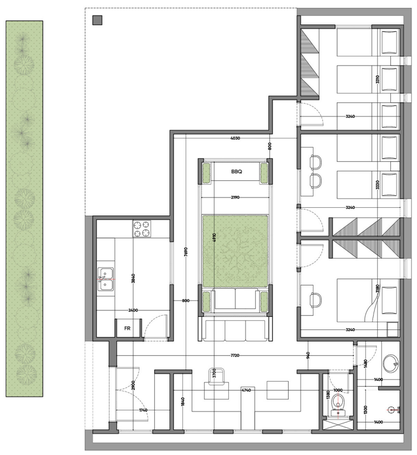
1 Mosque
2 Health Care center
3 School
4 Courts and playgrounds
5 recreational areas
6 Main Entrance

ARCHITECTURAL FLOOR PLANS

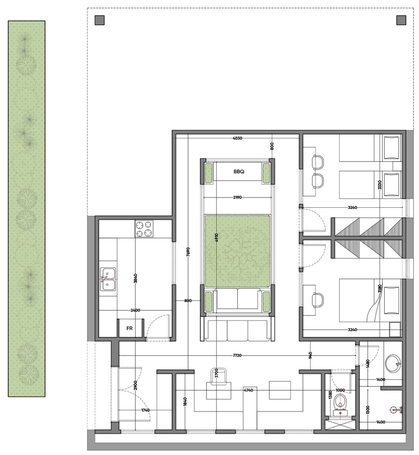
SCALE 1:100



PLAN FOR A FAMILY OF 9 PEOPLE



PLAN FOR A FAMILY OF 6 PEOPLE



PLAN FOR A FAMILY OF 4 PEOPLE

ZOOMED IN CLUSTER LAYOUT

DAR AL WASL

WHERE A HOUSE BECOMES A BOND, AND SHELTER BECOMES A HOME **SA3001**

MAIN LIVING / DINING AREA DESIGN

INTERIOR DESCRIPTION

FOYER:
"A SIMPLE WOODEN BENCH INSPIRED FROM THE TRADITIONAL DIKKA IDEA IS INCORPORATED INTO THE ENTRANCE — SYMBOLIZING ARAB HOSPITALITY AND COMMUNITY.

FLOORING :
THE FLOORING THROUGHOUT THE HOUSE IS FINISHED WITH REUSED CERAMIC TILES FROM LEFTOVER PROJECT MATERIALS, OFFERING A COST-EFFECTIVE AND ECO-FRIENDLY SOLUTION. THE MIXED COLORS OF THE TILES WERE CAREFULLY BALANCED BY USING NEUTRAL WALL COLORS AND SIMPLE FINISHES, CREATING A UNIQUE CHARACTER THROUGHT THE WHOLE HOUSE .

FURNITURE, CURTAINS AND LIGHTING :
PALM FROND WEAVE (KHOOS) WAS USED THROUGHOUT THE HOUSE'S INTERIOR — IN TABLES, SEATING,LIGHTING CABINET DOORS, AND VERTICAL BLINDS — AS A LOCALLY AVAILABLE, LOW-COST MATERIAL. ITS NATURAL TEXTURE AND WARM TONE ENHANCE THE SPACE WITH AN EARTHY, HANDCRAFTED FEEL, REFLECTING THE PROJECT'S COMMITMENT TO SUSTAINABILITY AND CULTURAL AUTHENTICITY."
USING 90% OF THE FURNITURE AS BUILT-IN SOLUTIONS, AS THIS APPROACH WILL LAST LONGER IN THE HOME DESIGNED FOR LOW-INCOME FAMILIES AND SIGNIFICANTLY REDUCE COSTS.

WALLS PAINTING :
GYPPLAST MATERIAL IS A FAST, COST-EFFECTIVE ALTERNATIVE TO TRADITIONAL PLASTER, OFFERING A SMOOTH ISOLATED FINAL FINISH WITH LESS LABOR AND MATERIAL USE."

CEILING :
"THE CEILING USES THE FILLING SLAB SYSTEM, WHICH NOT ONLY REDUCED CONSTRUCTION COSTS BUT ALSO ADDED A UNIQUE CHARACTER AND DISTINCTIVE AESTHETIC TO THE HOME."


DINING AREA DESIGN (IN THE BIG FAMILY MODEL)


INNER COURT SEATING AREA


INDOORS INNER COURT SEATING DESIGN


MAIN LIVING AREA DESIGN


MAIN BEDROOM DESIGN

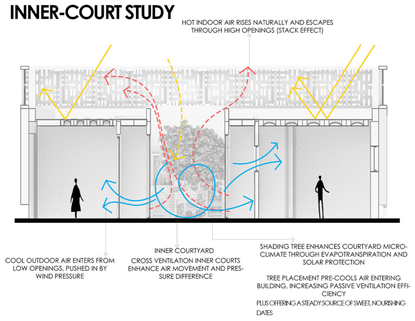

CORRIDOR DESIGN (SHOWING PALM FRONDS VERTICAL BLINDS SOLUTION)

INNER COURT LAYOUT


KITCHEN DESIGN

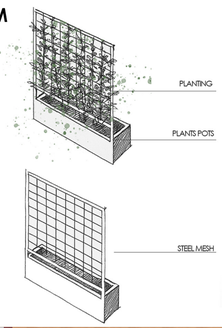

DOUBLE, TWIN AND TRIPLE ROOM DESIGN

INNER-COURT STUDY

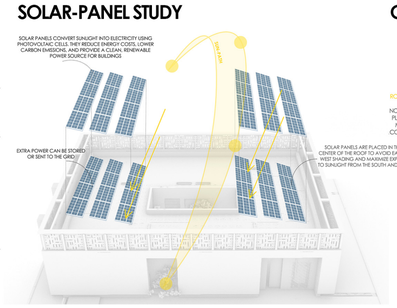


GREEN WALL DIAGRAM

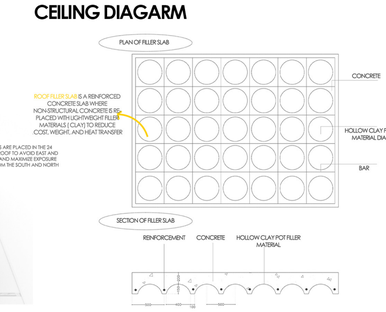
A GREEN WALL IN THE INNER COURT ENHANCES AIR QUALITY, THERMAL COMFORT, AND BIODIVERSITY WHILE REDUCING NOISE AND ENERGY USE. IT FILTERS POLLUTANTS, PROVIDES NATURAL INSULATION, SOFTENS HARD SURFACES, AND ADDS A CALMING AESTHETIC. BY OFFERING PRIVACY WITHOUT BLOCKING LIGHT, IT ALSO SUPPORTS RELAXATION, SOCIAL INTERACTION, AND OVERALL WELL-BEING.



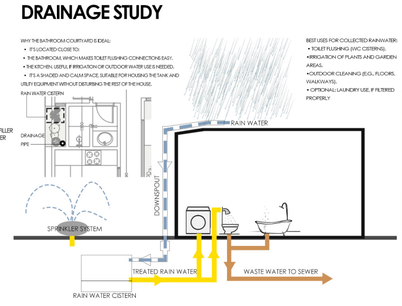
SOLAR-PANEL STUDY



CEILING DIAGARM



DRAINAGE STUDY



COST STUDY

THE ESTIMATED COST IS APPROXIMATELY 863,000 EGP (≈ 27,900 USD) IN MARKETS WITH LOWER LABOR AND MATERIAL COSTS AND LESS STRINGENT CONSTRUCTION REGULATIONS, SUCH AS EGYPT.
A DETAILED QUOTATION IS AVAILABLE UPON REQUEST.

SECTION A-A


WOODEN PARAPET / WIND CATCHER INLAY DESIGN

SECTION B-B

CLUSTER NORTHERN VIEW

1 MAIN STREET FRONT FACADE
SCALE 1:100

2 ENTRANCE FACADE
SCALE 1:100

3 MAIN STREET (BACK FACADE)
SCALE 1:100

4 SIDE FACADE
SCALE 1:100