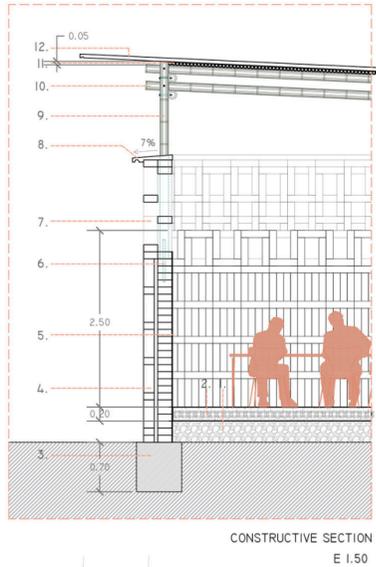
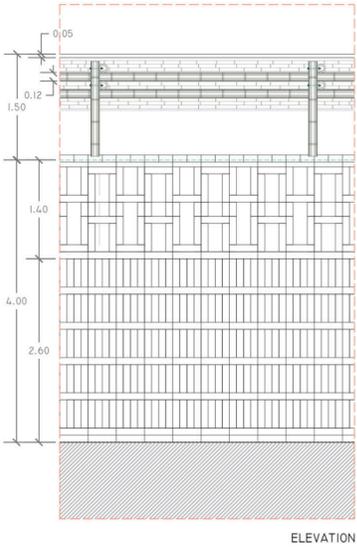




- TERANGA -



LEGEND

1. GRAVEL FILL
2. RECYCLED PLASTIC AND CONCRETE SLAB (20CM)
3. CYCLOPEAN CONCRETE STRIP FOOTING FOUNDATION AND TYRES (70CM)
4. DOUBLE WALL VENTILATED BY A 5 CM AIR CHAMBER AND COMPOSED OF TWO LEAVES: OUTER SHEET - EXPOSED LATERITIC STONE BRICK (40x20x10CM) INTERIOR SHEET - ADOBE BRICKS STABILIZED WITH CEMENT (40x20x10CM)
5. CLAY PLASTER (1 CM)
6. METAL BOLT (Ø3 CM)
7. LATERITIC STONE BRICK LATTICE, 40x20x10 CM
8. LATERITIC STONE WINDOWSILL, WITH A 7% SLOPE WITH DRIP FORMATION, 40x20x10 CM
9. BAMBOO PILLARS SUPPORTED AND ANCHORED TO THE WALL BY A METAL BOLT (Ø12 CM)
10. BAMBOO BEAMS (Ø12 CM)
11. PREFABRICATED PANELS OF BAMBOO CANES IN SITE AS INSULATION (5 CM)
12. CORRUGATED METAL SHEETS

TAKING A FIRST LOOK AT THE PLAN OF THE CITY OF MARSASSOUM, WE FIND A SCATTERED BUILDING, ORDERED BY A GRID OF STREETS WEAVING THE TERRITORY. THIS ORGANIZATION REMINDS US THE TRADITIONAL SENEGALESE HOUSING. A DISPERSED HOUSE, MADE UP OF DIFFERENT MODULES WITHIN THE SAME PLOT, GIVING GREATER IMPORTANCE TO FREE SPACE. AT THE BEGINNING OF THE SETTLEMENT OF THE TOWN, THESE ARE IMPLANTED AROUND A TREE AND A WELL THAT CONSTITUTE THE HEART OF THE FUTURE SQUARE. ALL THE HOUSING UNITS ARE GROUPED AROUND THIS CENTRAL SQUARE FORMING A SINGLE RING OF HOUSES.

THIS SAME CONCEPT OF ARCHITECTURAL ORGANIZATION IS ADOPTED FOR THE CONFIGURATION OF THE SCHOOL. THE GREAT TREE IS THE PROTAGONIST OF OUR BUILDING, A CENTRAL MEETING POINT. AROUND IT, THE CROPS AND MODULES (PRIVATE SPACES) ARE LOCATED, WHICH WILL CONFIGURE THE DIFFERENT CLASSROOMS, DINING ROOM AND LIVING AREAS (OPEN SPACES) WITHIN AN ORTHOGONAL GRID.

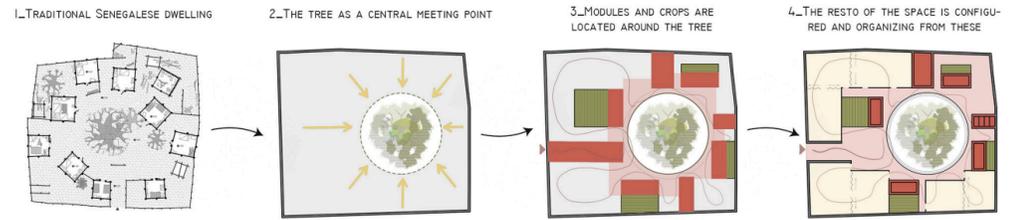
THE MODULES (2.8x5.8M) ARE SPACES WITH MORE PRIVATE FUNCTIONS, WHERE SPECIFIC ACTIVITIES ARE CARRIED OUT, SUCH AS A LIBRARY, KITCHEN, OFFICES, STORAGE AND LATRINES. THE CROPS ARE CORN, SORGHUM, RICE AND MILLET LINKED TO THE CLASSROOMS TO BE WORKED BY THE STUDENTS SO THAT THEY CAN LEARN SOME BASIC CONCEPTS ABOUT AGRICULTURE, AS WELL AS TO PROVIDE THEM WITH FOOD. THE CLASSROOMS ARE PAIRED AND SEPARATED BY VERTICAL FOLDING ELEMENTS FOR GREATER FLEXIBILITY AND USE OF SPACE, IN ACTIVITIES THAT REQUIRE A LARGER AREA.

THE BUILDING IS RAISED 50 CM FROM THE GROUND ON A BASE, MADE OF RECYCLED PLASTIC, TO BE PROTECT FROM HUMIDITY AND DUST, OCCUPYING THE ENTIRE PLOT.

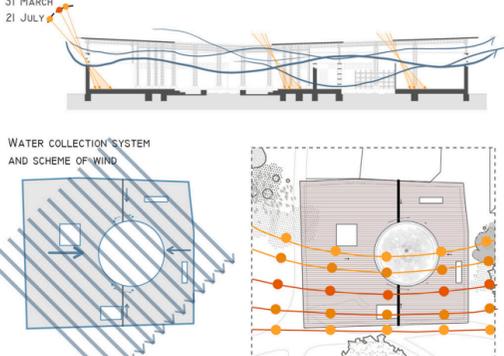
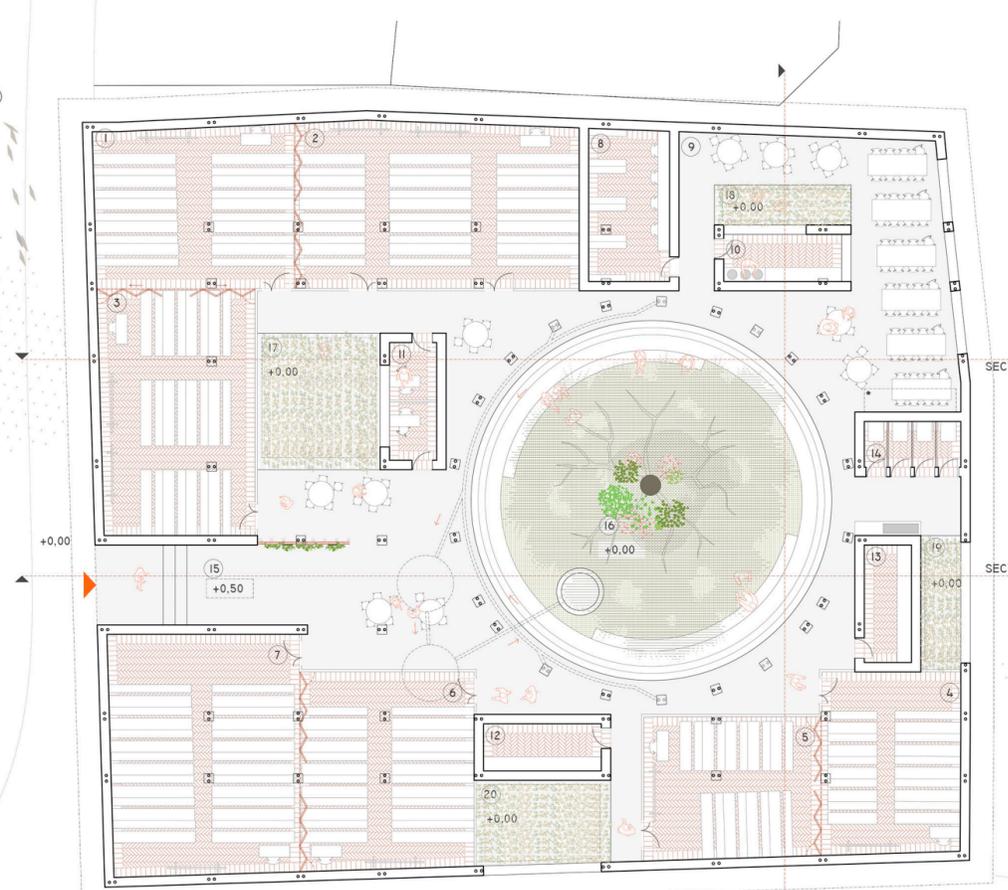
THE FACADE IS A DOUBLE VENTILATED WALL WITH THE OUTER SHEET OF LATERITIC STONE BRICK, WHICH IS WHAT PROTECTS THE ADOBE BLOCKS THAT MAKE UP THE INNER SHEET OF LOAD FROM THE RAIN AND THERMAL RADIATION. AT THE SAME TIME, THE INNER LAYER IS LINED WITH CLAY FOR ADDED PROTECTION. ALL BRICKS ARE STABILIZED WITH LIME AND CEMENT FOR DURABILITY AND STRENGTH.

THE ROOF RESTS ON A BAMBOO STRUCTURE, SEPARATED FROM THE BUILDING ALLOWING NATURAL LIGHTING AND AIR CIRCULATION AT ALL TIMES, ACHIEVING CLIMATIC COMFORT WITHOUT THE NEED TO RESORT TO MECHANICAL REFRIGERATION SYSTEMS.

THE BUILDING HAS A RAINWATER COLLECTION SYSTEM. THE WATER IS COLLECTED FROM THE ROOF AND IS GUIDED, BY GRAVITY, THROUGH FALSE PILLARS TO THE NEW WELL BUILT, PASSING THROUGH TWO TANKS THAT ARE RESPONSIBLE FOR STORING IT. ALL MATERIALS ARE MANUFACTURED LOCALLY AND RECYCLED, AT A LOW COST. IN ADDITION, THE NECESSARY CONSTRUCTION TECHNIQUES ARE EASY TO LEARN AND REPRODUCE. THE SYSTEMATIC USE OF AVAILABLE RESOURCES AND NATURAL MATERIALS REFLECTS THE DESIRE TO INTEGRATE THE BUILDING INTO ITS SURROUNDINGS.



1	1° 50 STUDENTS	57.73 M ²
2	2° 70 STUDENTS	84.52 M ²
3	3° 48 STUDENTS	68.61 M ²
4	4° 35 STUDENTS	45.39 M ²
5	5° 31 STUDENTS	45.17 M ²
6	1° 54 STUDENTS	61.72 M ²
7	2° 70 STUDENTS	81.83 M ²
8	LIBRARY	22.12 M ²
9	MULTIFUNCTIONAL COVERED SPACE (DINING ROOM+STUDY ZONE)	70.54 M ²
10	KITCHEN	10.00 M ²
11	OFFICES	10.00 M ²
12	STOCK (FOR TEACHERS)	10.00 M ²
13	STOCK (FOR FARMING AND SCHOOL)	10.00 M ²
14	URINE-DIVERTING DRY TOILETS (UDDT)	7.99 M ²
15	OUTDOOR COVERED SPACE	243.60 M ²
		829.24 M ²
16	COURTYARD	183.85 M ²
17	AREA TO GROW (CORN)	30.16 M ²
18	AREA TO GROW (RICE)	9.86 M ²
19	AREA TO GROW (SORGHUM)	9.69 M ²
20	AREA TO GROW (SON)	20.34 M ²
		253.90 M ²
		1083.14 M ²



13,5 MONTHS OF CONSTRUCTION
2 PHASES = 1° (NOV-MAY) + 2° (NOV-MAY) ---- TO AVOID THE RAINY SEASON

