

# STACKED

This 2 storey proposal is an idea to counter act the housing crisis in Lesotho by providing an affordable solution without compromising on aesthetics and basic requirements. The key concept of the design was to find the common ground between affordability and vernacular building techniques. The materials used in this project are fairly simple- RCC and compressed stabilised earth block (CSEB). RCC and CSEB have great thermal masses which is required for a climate that needs heat storage. Glass bottle walls are also used which provide warmth and light stream as well as providing privacy.

The shape of the building was derived from a typical Rondavel house, keeping in mind Lesothos's local architecture.

Natural heating of the building through great thermal masses of the building and cooling through convective cooling through ventilators and openings through the semi-circular dome.

The design is a template for row housing where every 3 house blocks have a staircase the leads to the top floor. The idea of having 2 stories was to provide for growing families to live together rather than away. Since communal living is important in African culture, this was also a vital fact to implement in the design.

# COST BREAKUP for 1 housing block ( 2 dwellings)

RCC structure: 19 cum for 3 floor slabs=  $19 \times M1695 = M30,637$

Compressed stabilised earth block- raw material= free , rent for block press from Hydraform, South Africa

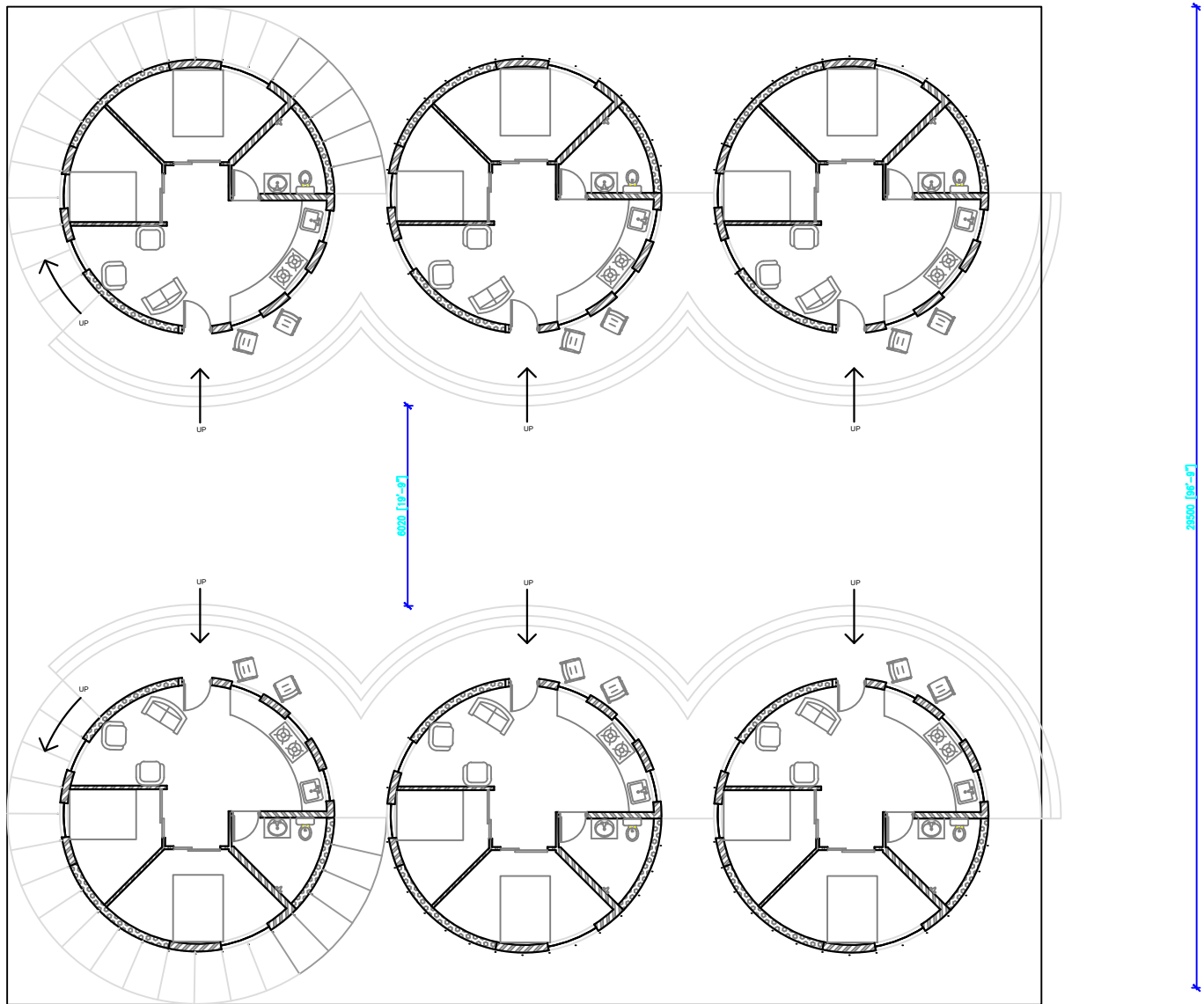
Recyclable glass bottle for glass bottle wall= nominal fee

Aluminium framed doors and windows

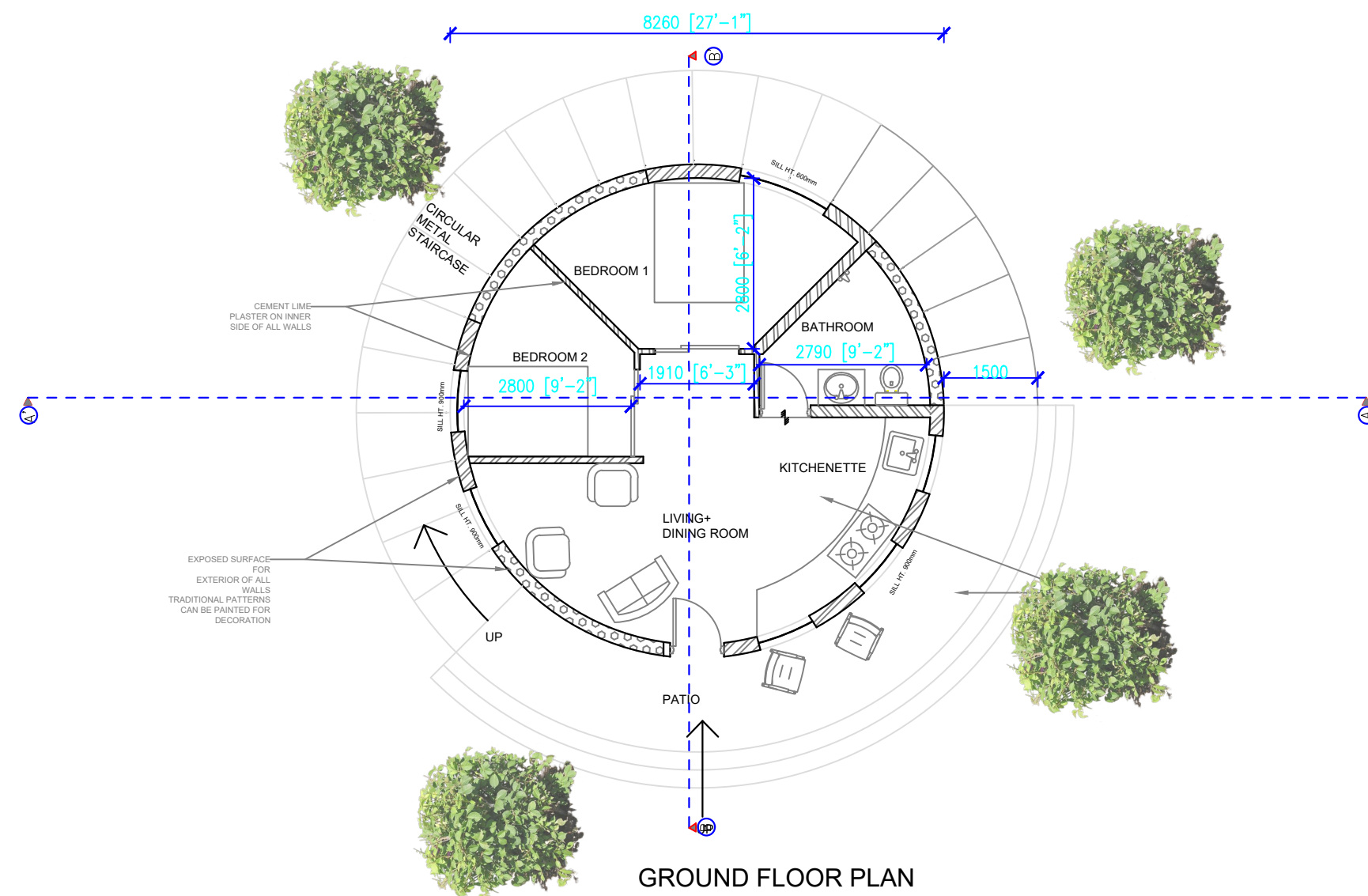
Labour cost M140/day

P.S- several attempts was made to contact building material merchants but none were entertained

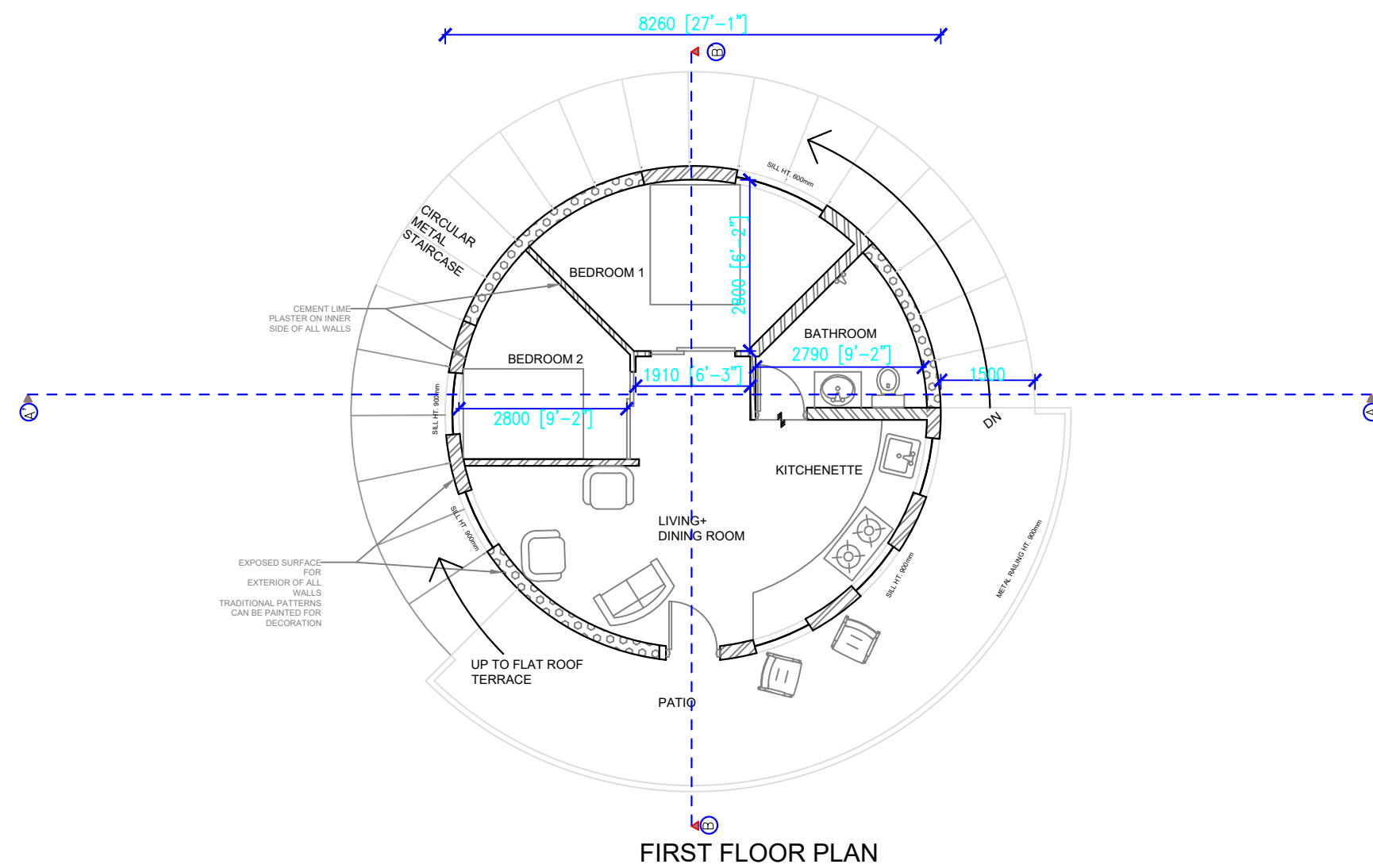
My assumption is the overall cost should be plus or minus M1000 to the said budget



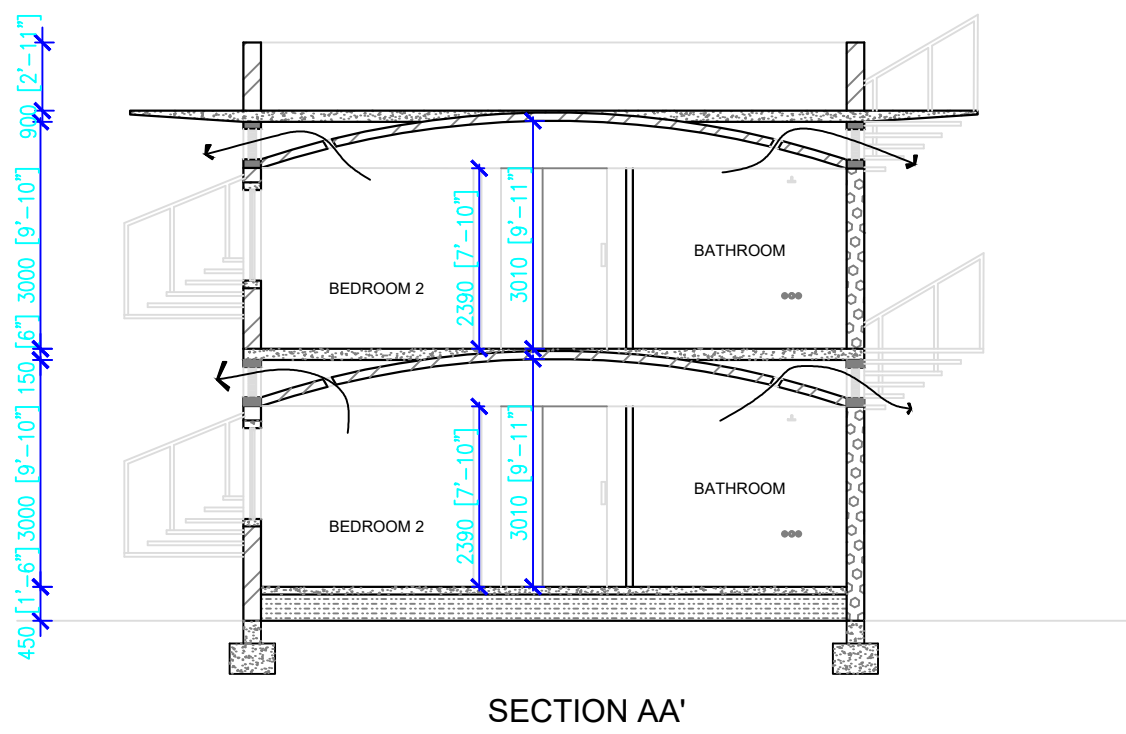
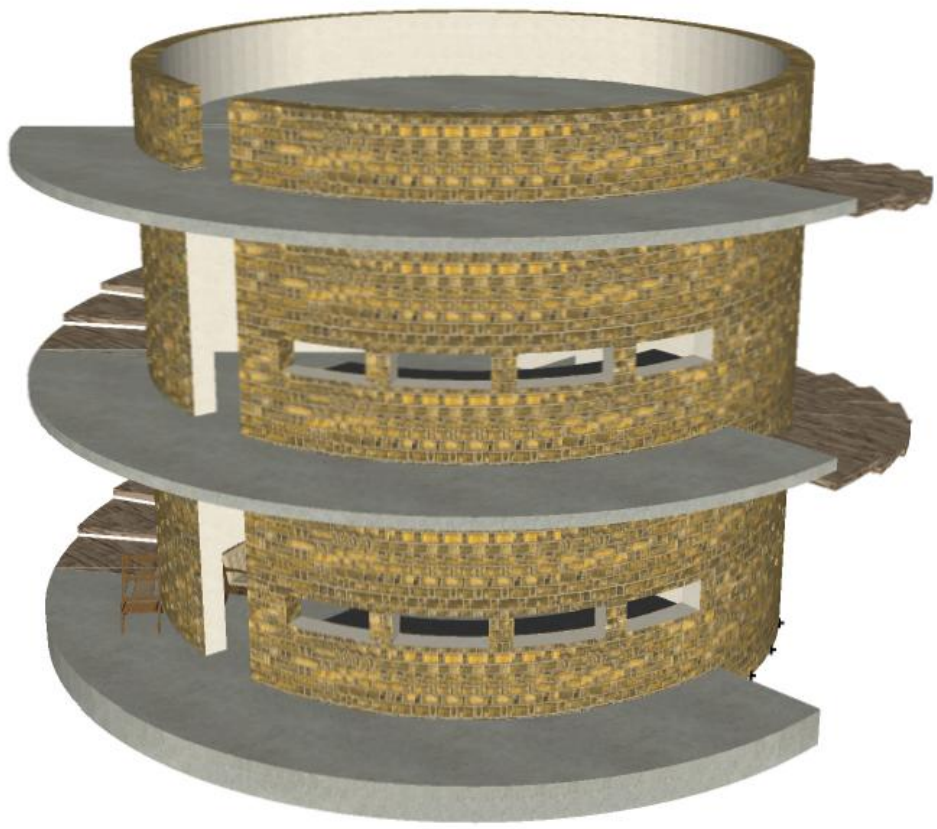
SITE PLAN



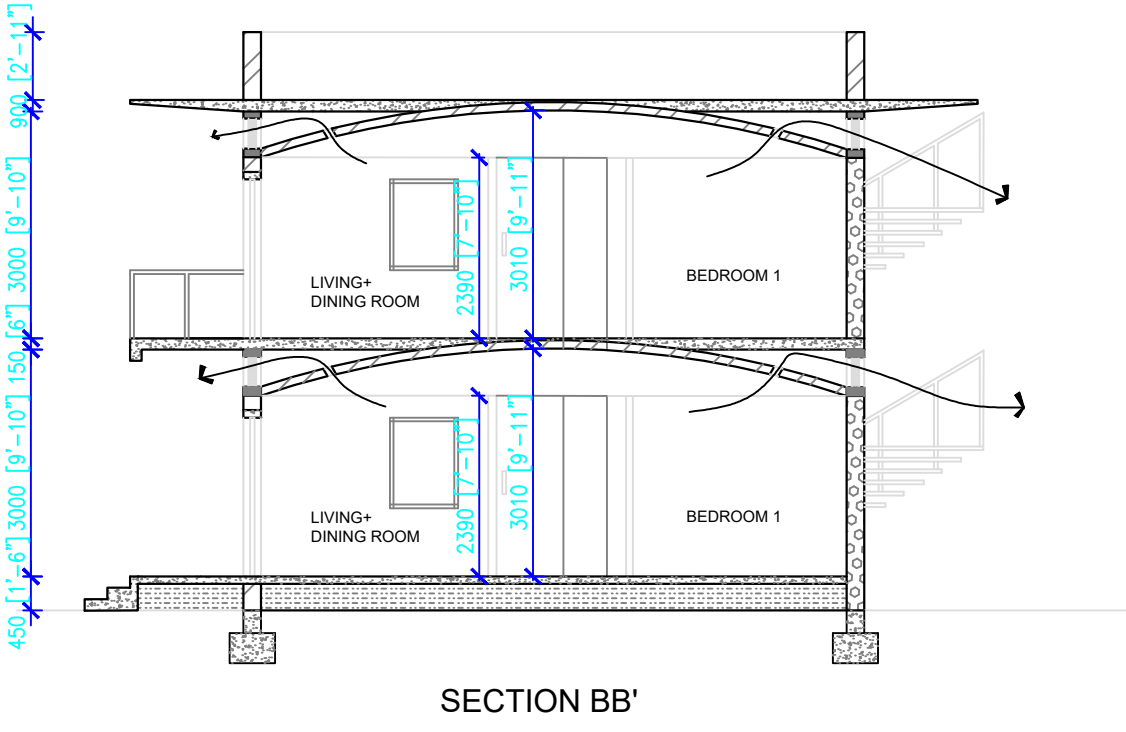
GROUND FLOOR PLAN



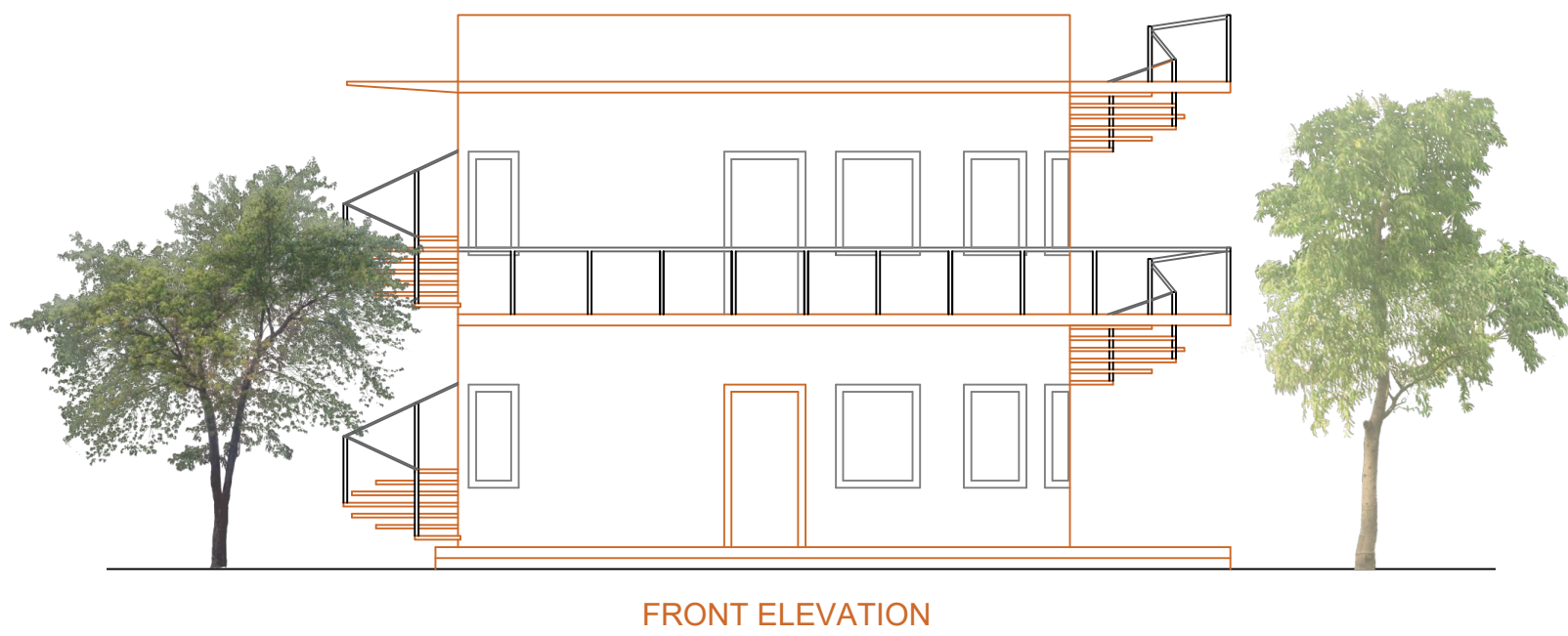
FIRST FLOOR PLAN



SECTION AA'



SECTION BB'



FRONT ELEVATION