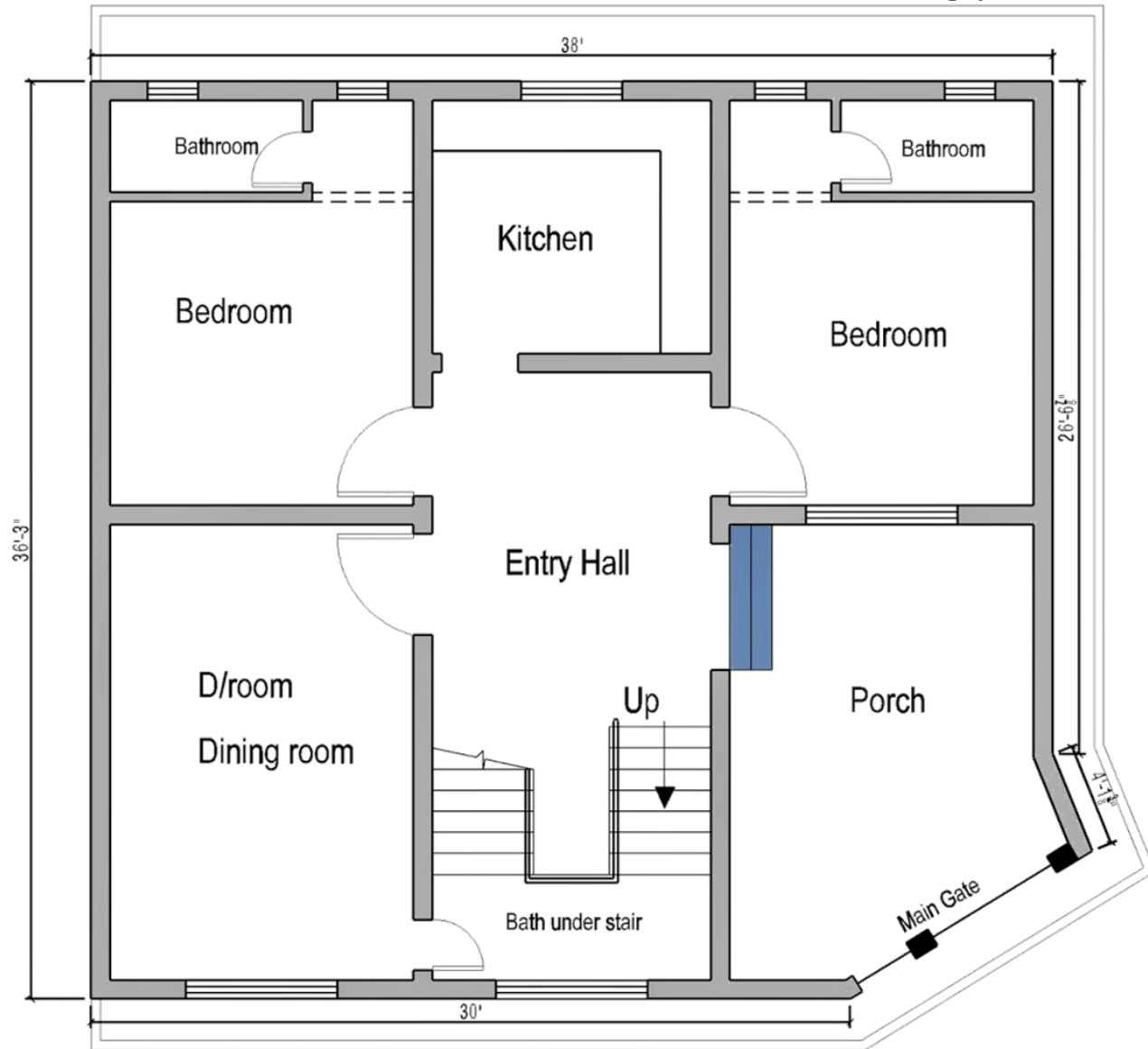


Civil Drawing – Plan and Elevation

- | Top view of an object (building) is called its plan
- | Plans of different floors are drawn separately
- | A plan normally shows the thickness and locations of walls, windows, ventilators, doors, fire points, wardrobes, cabinets, etc...
- | The height and vertical location of an object cant be read from the plan
- | Plan of ground floor may show the essential structures of other floors using dotted lines/hidden object lines
- | Other than the above mentioned details, the plan of first and higher floors must show the terrace (if there)
- | Real dimensions are normally shown in plans, keeping care of the scale

Elements of Civil Drawing

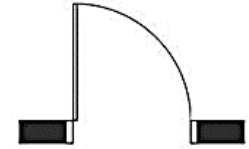
| Symbols of various elements can be observed in the following plan



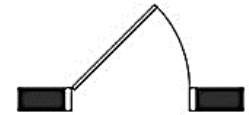
Elements of Civil Drawing

- | Double brick walls are shown with double lines at a suitable distance from each other
- | Single brick walls are shown using two parallel lines half a distance away from each other as compared to those used for double brick walls
- | The thickness of a double brick wall is 9 inches, while that of a single brick wall is 4.5 inches
- | Symbols of various door types are shown
(image taken from pinterest.com)

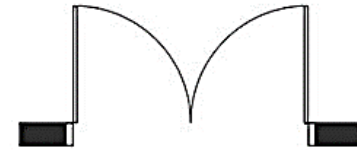
DOOR SWING



DOOR SWING - CLOSET DOOR



DOUBLE DOOR SWING



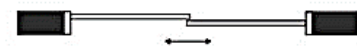
BIFOLD DOOR



POCKET DOOR



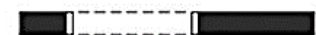
BYPASS SLIDING DOORS



SURFACE SLIDING DOORS



ARCHWAY - WALL OPENING



- | Similarly there exist different symbols for various types of windows, walls and other structures.
- | You may find difference in the symbols set of various CAD software, but all of them are correct and any one of them can be followed

Elevation

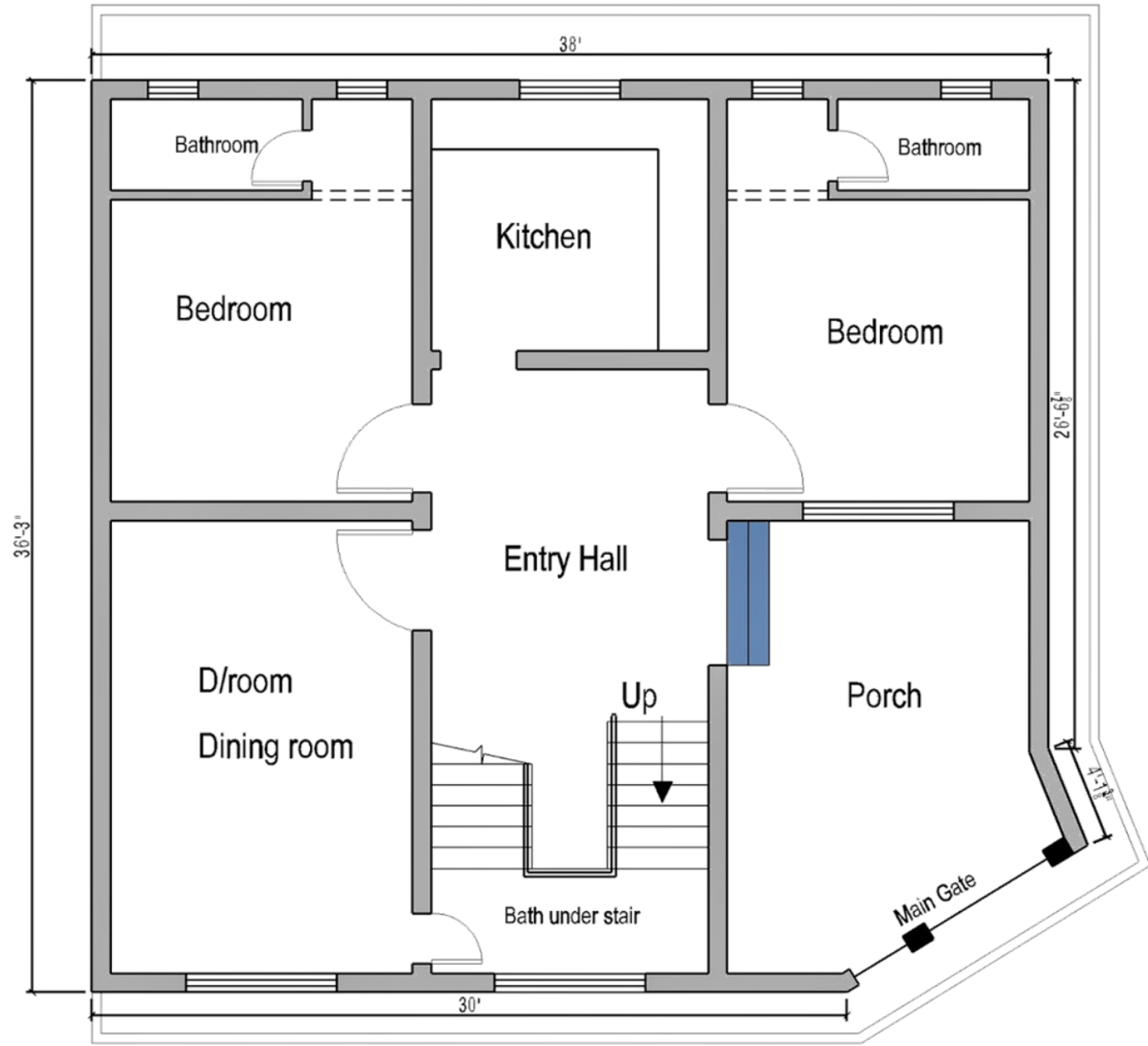
- | Normally, the front view of a building is called its elevation
- | Elevation shows the height and vertical locations of various structures as seen from the front side of the building
- | Many details not visible in the plan, are easily read from elevation
- | Similarly, left, right and back side elevations can also be drawn for complete description of the design if needed
- | Normally elevation does not include the boundary walls, instead, it shows the view of the actual structure within the boundary walls

| Plans and Elevation of a double story house are shown under

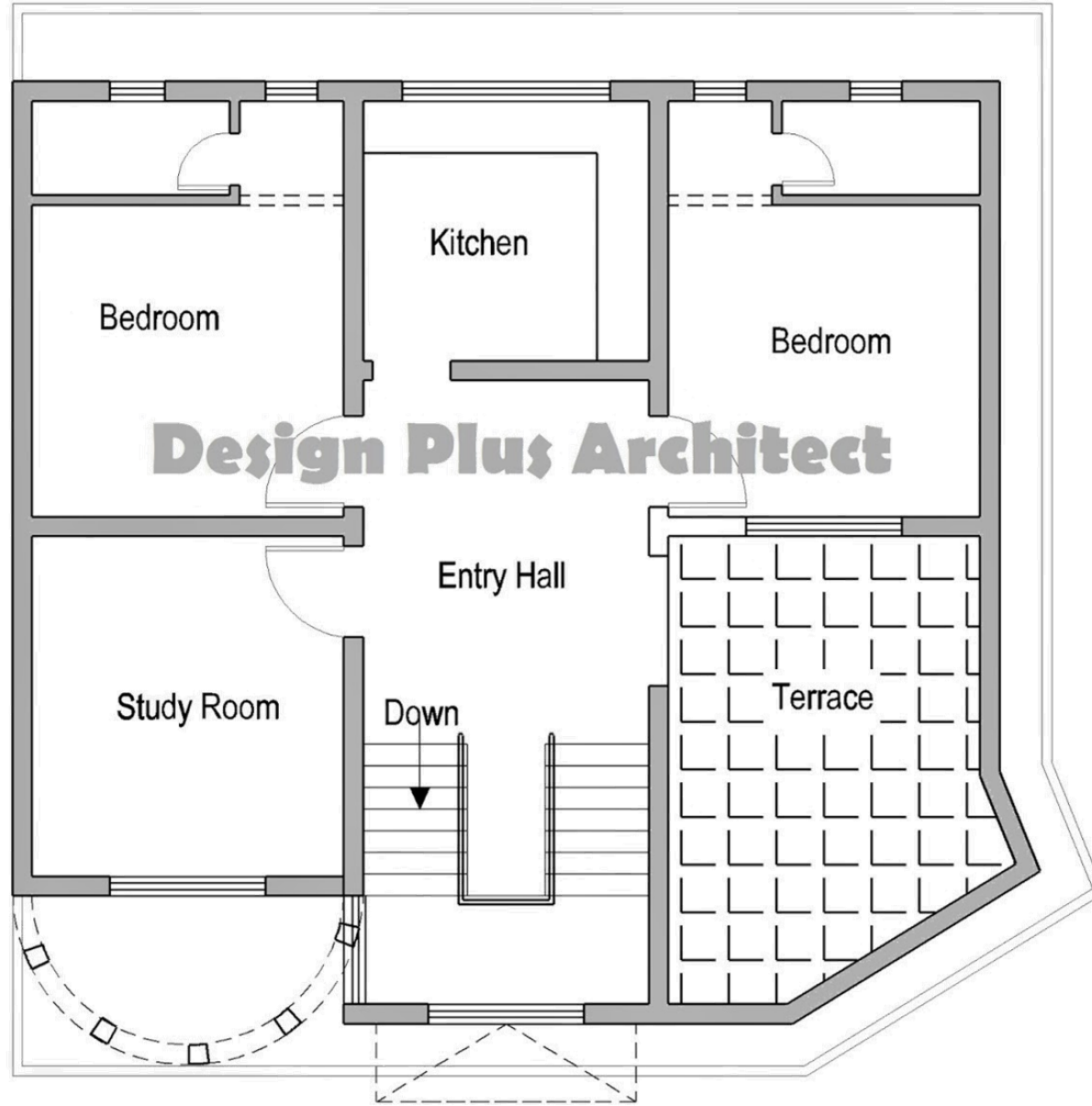
These plots are taken from the following link only for educational purpose with all the due credit to the actual designer

<https://civil-techno.blogspot.com/2014/05/home-plan-in-pakistan.html>

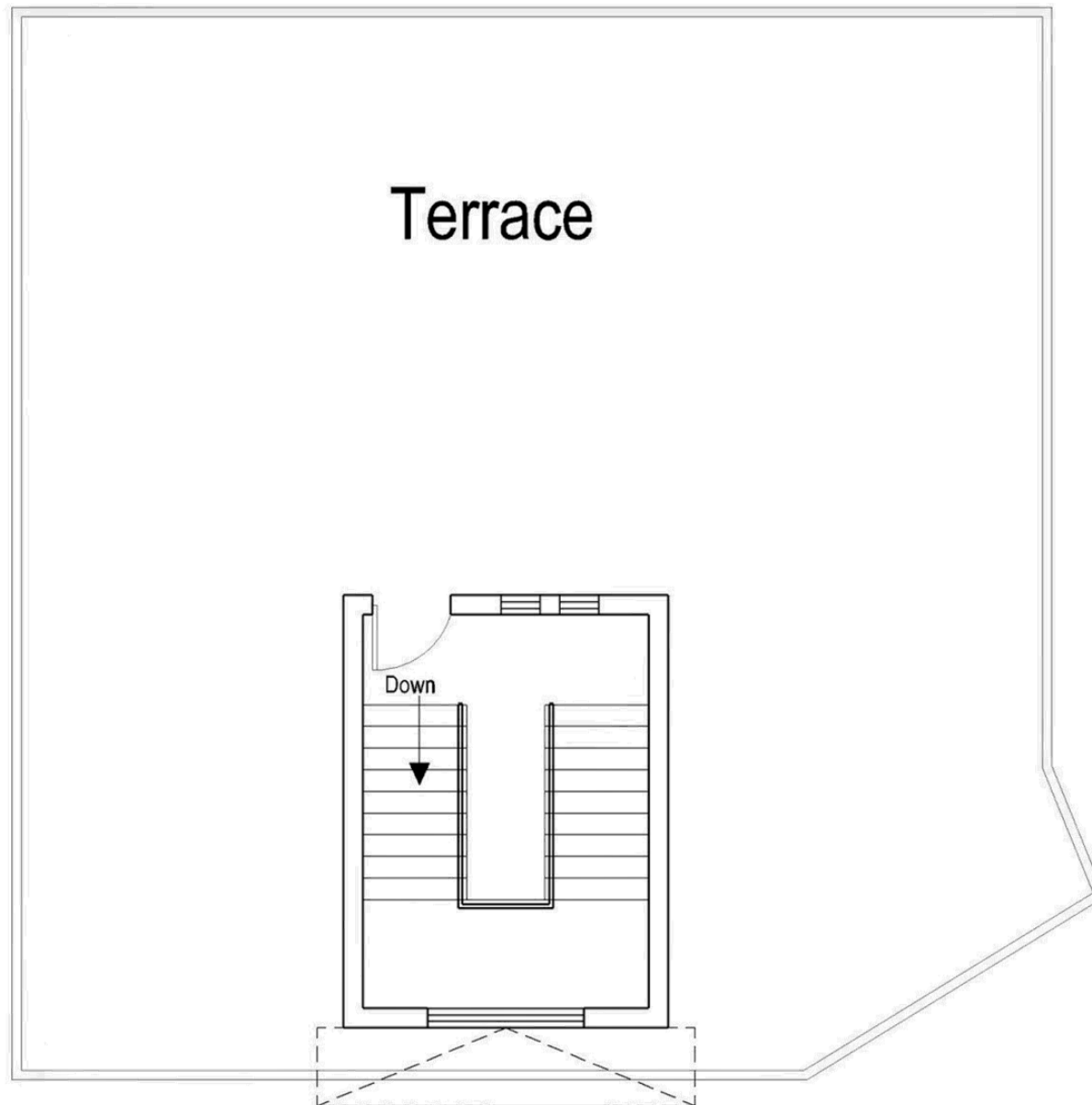
Plan of Ground Floor



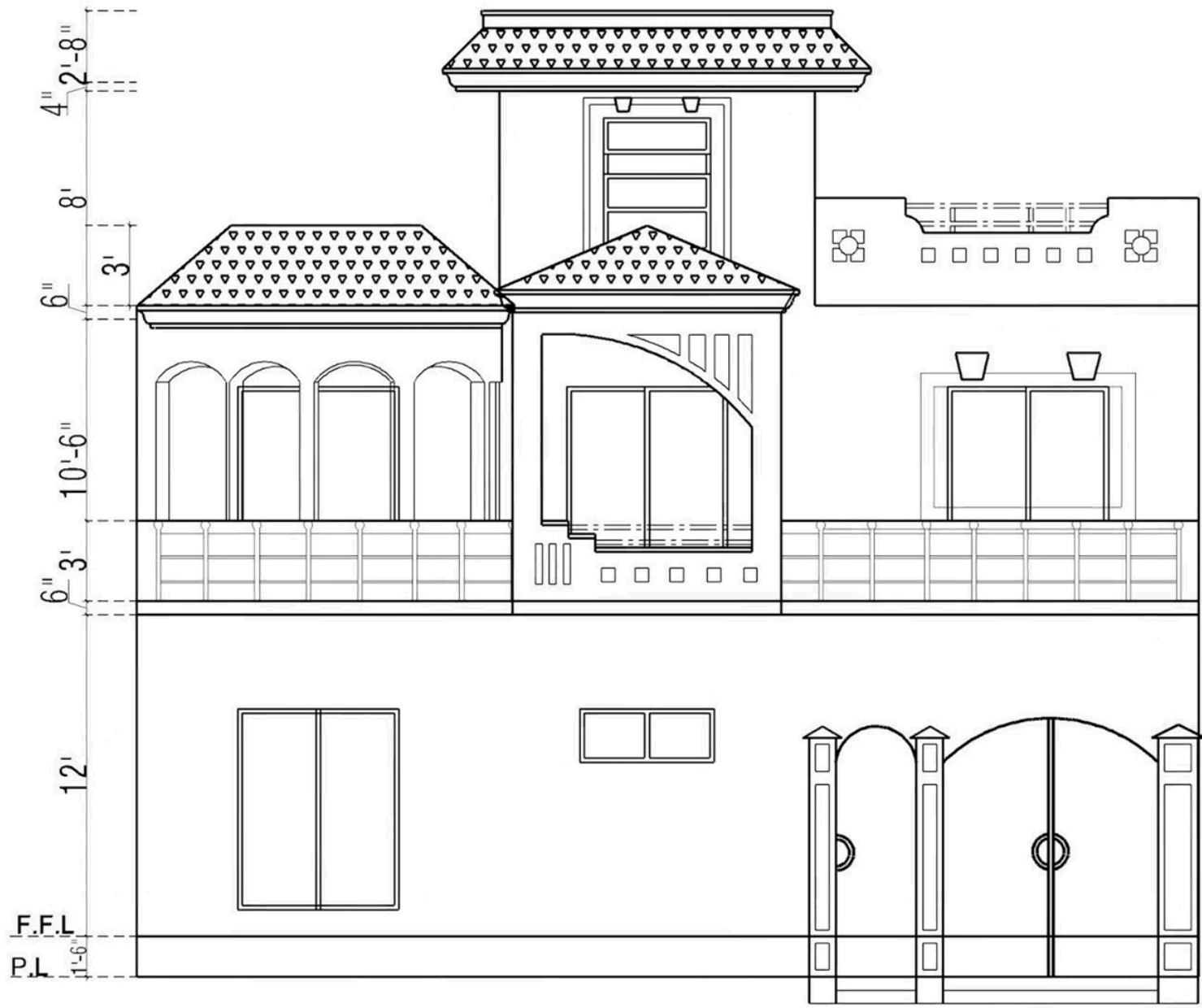
Plan of First Floor



Plan of Second Floor



Elevation



- | The complete drawing set contains several other drawings other than plans and elevation to completely present the proposed structure to the reader
- | Drawings of Furniture arrangements, electric wiring, sewerage plan, floor inclinations, tiles, location of bathroom fixtures, several cross sectional views of the building, design of doors and windows along with suggested material, arrangement of steel bars in various slabs of steel reinforced concretes used for roof and paving are also shown each as a separate drawing for each floor

Conclusion