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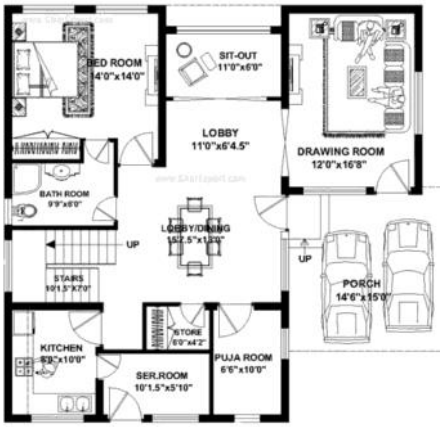
Irvine Royal Academy—Technical Department

Graphic Communication—Advanced Higher

Built Environment Drawing—Creators and Users 3

Various drawings are used for planning and developing the built environment. In Advanced Higher you will need to know what the main features of each are, and also who the 'end-users' of the drawings are. Some of the end-users are listed here.



Construction Trades

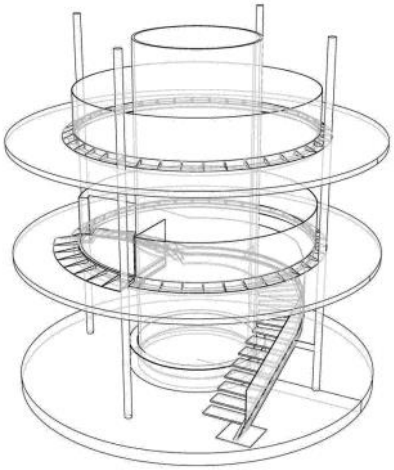
The construction trades encompasses many different trades. All will require different drawings with information to allow them to carry out their work. These include **Plumbers, Joiners, Carpenters, Bricklayers, Digger Drivers (for foundations), Rough-casters, Plasterers, Roofers, Electricians, Kitchen fitters, Heating engineers, Window installers,** etc. The architect or engineer will need to supply drawings that are specific to each trade.

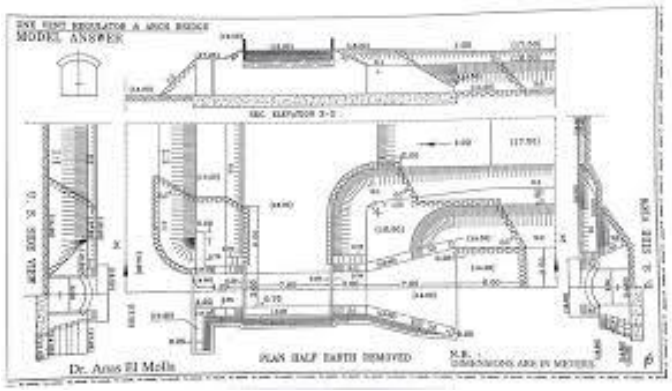
Prospective Purchasers

People who are going to buy a house or shop will want to see how it looks before they commit. Most of these people won't be able to understand a detailed drawing, so architects and others may produce 3D visualisations of the building. **Model Makers** can also be employed to make scale models of building, often added to existing streetscenes to show how the building will fit in.

Consultant Engineer

A Consultant Engineer will have a specialism in their field, and will be employed to advise on particular aspects of construction. They may be asked to inspect existing buildings for safety reasons, advise on the strength of an existing dam or bridge, advise on latest health and safety regulations. Consulting engineers are licensed professionals with diverse qualifications, including civil, structural, mechanical, electrical, environmental, geotechnical, chemical, industrial, and agricultural disciplines. When architects and builders face technical challenges, or when buildings require improved performance, consulting engineers can assist with the entire framework, such as design analysis, construction details and future structural support.





Civil Engineer

Civil engineers are responsible for the design of structures, such as roads, car parks, buildings, dams, etc. They often work on-site to lay out sites ready for construction to start. They will manage sites to ensure that the builders are completing the work to the plans. Some civil engineers may have a specialist field, such as maritime, geotechnical, or transportation.