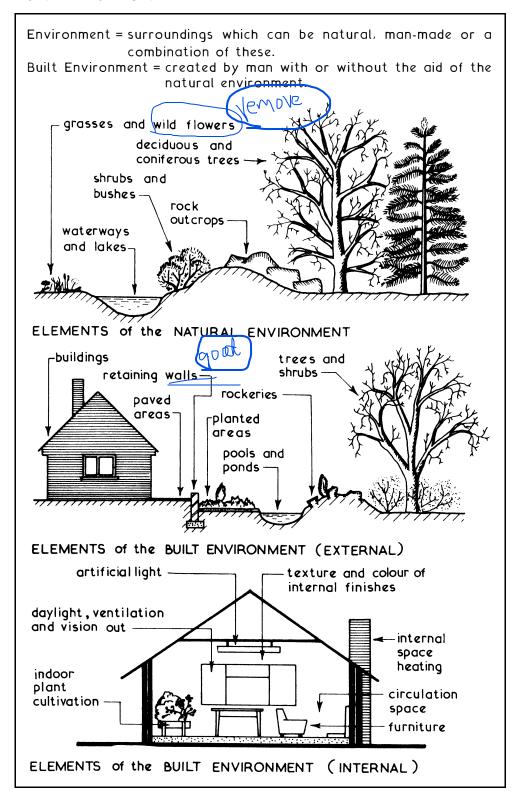
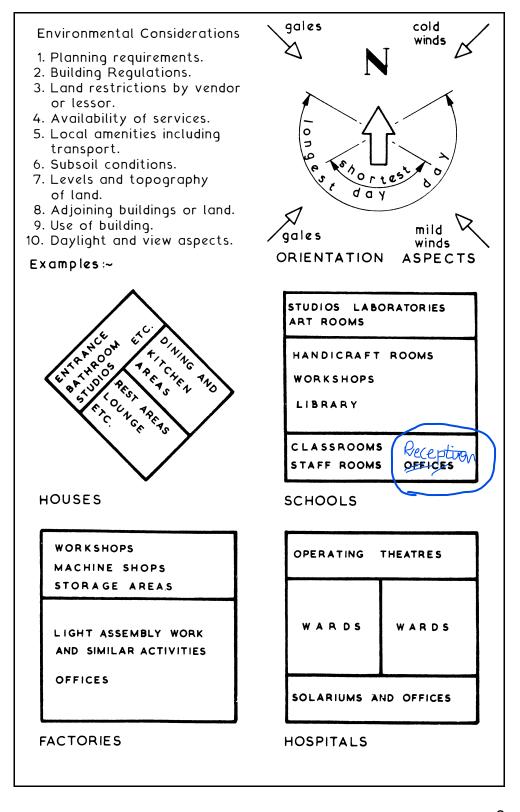
1 GENERAL



BUILT ENVIRONMENT THE STRUCTURE PRIMARY AND SECONDARY ELEMENTS CONSTRUCTION ACTIVITIES CONSTRUCTION DOCUMENTS CONSTRUCTION DRAWINGS BUILDING SURVEY CDM REGULATIONS SAFETY SIGNS AND SYMBOLS PLANNING APPLICATION MODULAR COORDINATION CONSTRUCTION REGULATIONS **BUILDING REGULATIONS BRITISH STANDARDS EUROPEAN STANDARDS** CPI SYSTEM OF CODING CI/SFB SYSTEM OF CODING

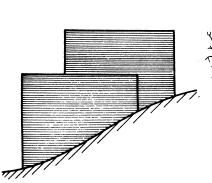


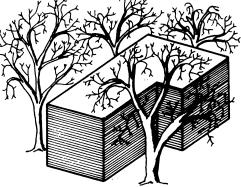


Physical considerations

- 1. Natural contours of land.
- 2. Natural vegetation and trees.
- 3. Size of land and/or proposed building.
- 4. Shape of land and/or proposed building.
- 5. Approach and access roads and footpaths.
- 6. Services available.
- 7. Natural waterways, lakes and ponds.
- 8. Restrictions such as rights of way: tree preservation and ancient buildings.
- 9. Climatic conditions created by surrounding properties, land or activities.
- 10. Proposed future developments.

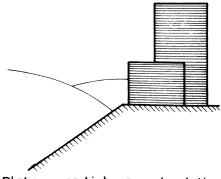
Examples:~

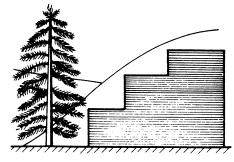




form economic shape.

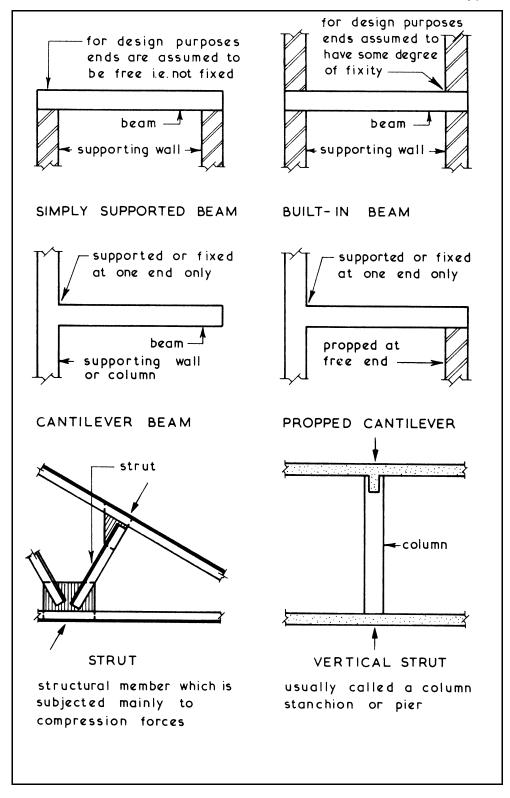
Split level construction to Shape determined by existing trees.

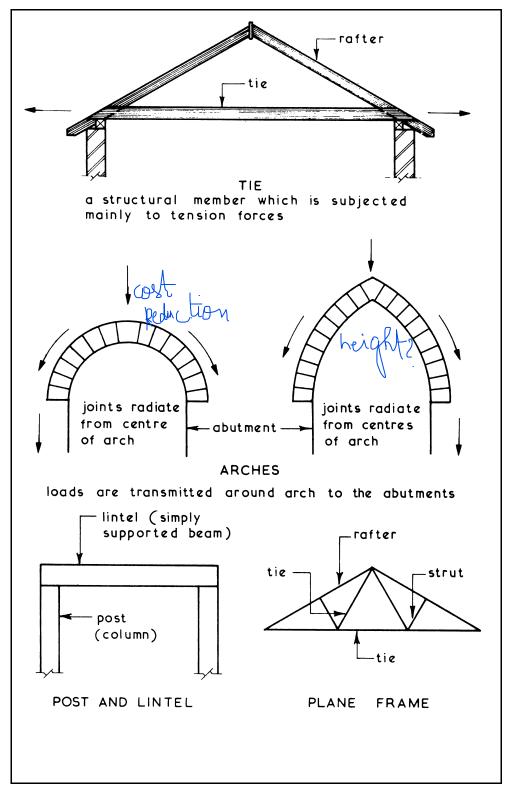


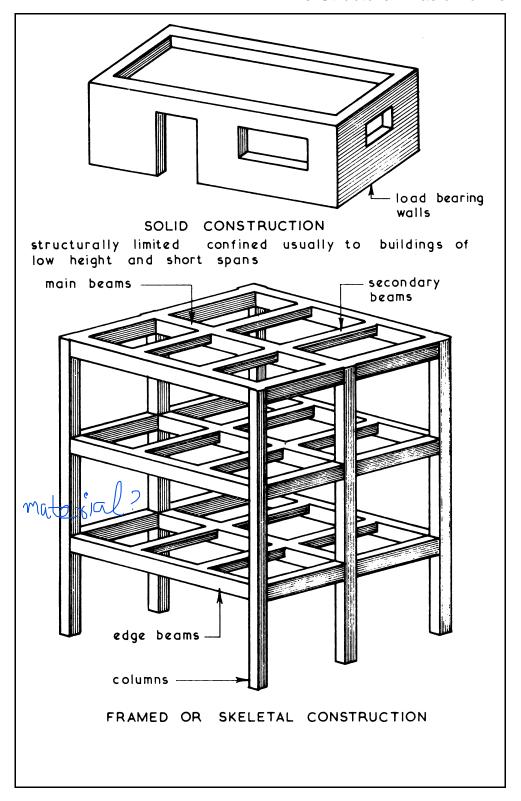


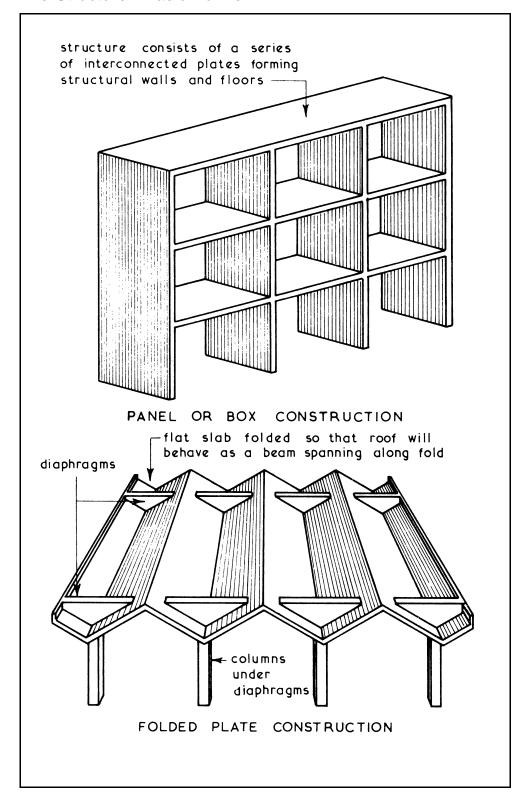
Plateau or high ground solution Stepped elevation or similar giving dry site conditions on sloping sites.

treatment to blend with the natural environment.

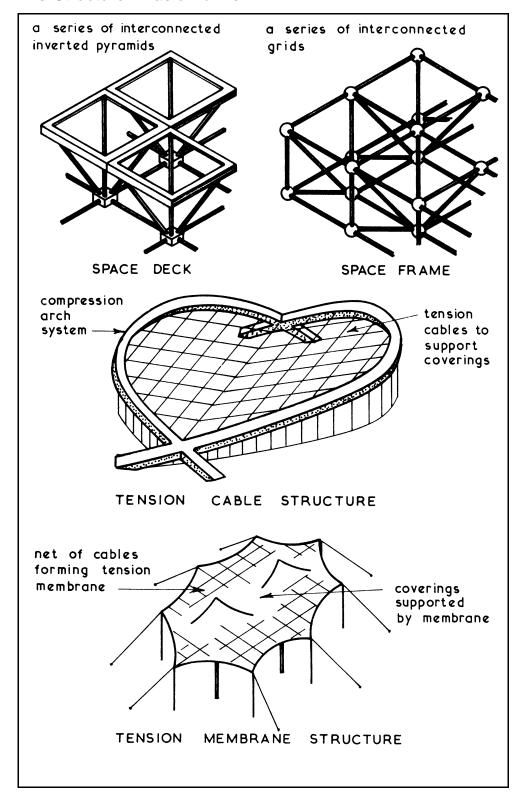








Shell Roofs ~ these are formed by a structural curved skin covering a given plan shape and area. Examples ~ hemispherical double curvature shell rotational dome formed by rotating a plain curved shape about a vertical axis vertical cut plane pendentive inscribed. polygon DOME OR ROTATIONAL SHELL PENDENTIVE DOME formed by a curved line cut cylinder giving moving over another a single curvature curved line shell diaphragm -TRANSLATIONAL DOME BARREL VAULT double curvature double curvature shells saddle shaped shell diaphragm -CONOID SHELLS HYPERBOLIC PARABOLOID



Substructure ~ can be defined as all structure below the superstructure which in general terms is considered to include all structure below ground level but including the ground floor bed. Typical Examples~ ground ground floor bed floor bed ground level wall-RC column--strip foundation RC pad foundation ground ground floor bed ground floor bed removable cover level SERVICE ground DUCT beampile foundation ground -ground level floor slab basement wall-AREA retaining basement wall -– area paving raft foundation