



The Building Elements

2.02-2.03

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The Building

2.02

Architecture and building construction are not the same thing. Knowing the way how to using different materials, elements and components are the key things on development of design and construction. However, this does not give as much knowledge as it needed for architecture to built the building. This is just the small part of architecture knowledge. There are many concepts architecture has to know before design the building

Architecture isn't just about the art of building it's about the different types of scales and proportions and the organization of space within the exterior walls. There are many functions that a building should have according to the purpose and use. A building should have a variety of qualities like lighting, space, form, color, texture, and the use of patterns. The primary interest to us in this book are the physical systems that help define a building while also keeping it organized. This book helps reinforce the conceptual and perceptual ordering of a building

A **system** is a combination of individual parts that work together serving a common purpose. A building is made with multiple connected systems and subsystems that are related and work with each other and with the building.



Building Systems 2.03

The **Structural System** is responsible for construction and designed support of the building. It includes transfer loads to the grounds without causing stress to environments and other buildings around it.

- **Superstructure** is the portion of the building above the ground level. It includes columns, beams, flooring, roofing and etc.
- **Substructure** is the lower portion of the building which transfers the loads from the superstructure to the ground. It includes foundation of the building

The **Enclosure System** is the outer case of a building it includes the roof, exterior walls, doors, as well as windows and garage doors. The roof and exterior walls provide shelter from the weather and allow us to have a temperature controlled environment. These exterior walls and roof also dampen exterior noise and provide privacy and security for the user. The doors provide access into and out of the building. The windows help give light, air, and a view. The interior walls help divide the space inside the building.

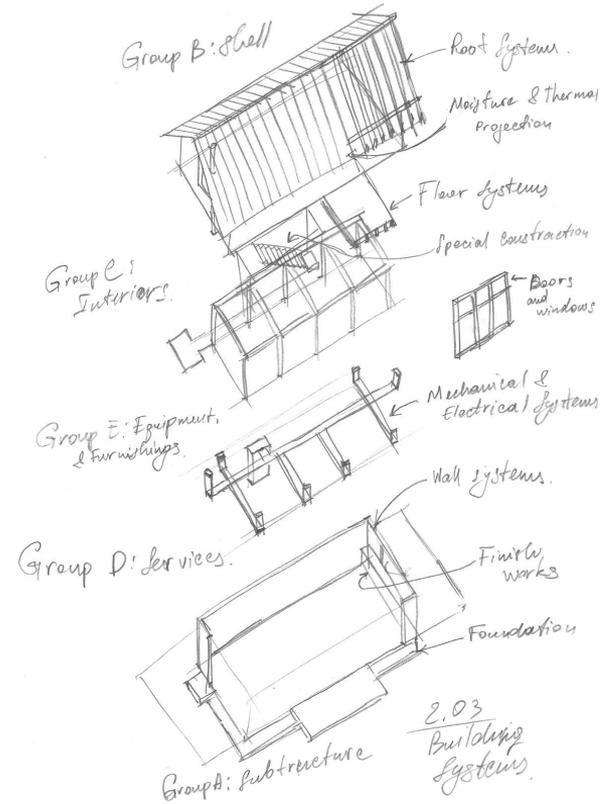
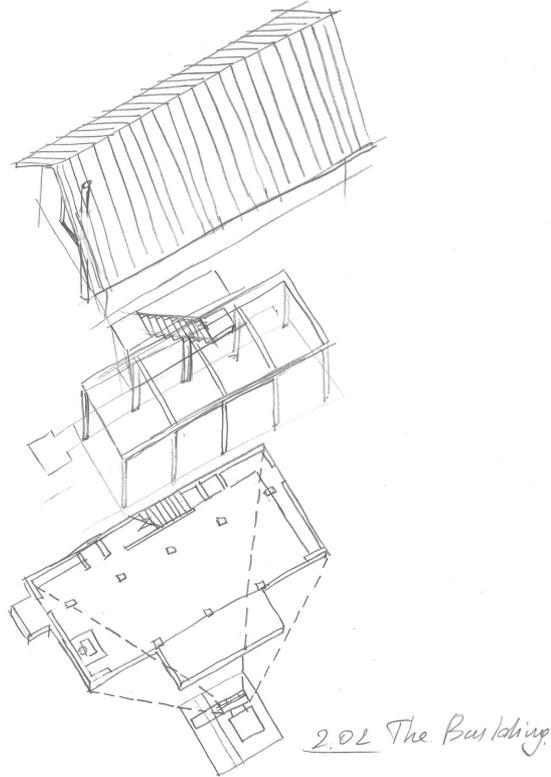
Mechanical Systems provide essential services to the building.

- Water Supply
- Sewage Disposal
- Heating, Ventilating, AC
- Electrical
- Vertical Transport
- Fire-Fighting
- Some structures may require waste disposal and recycling systems

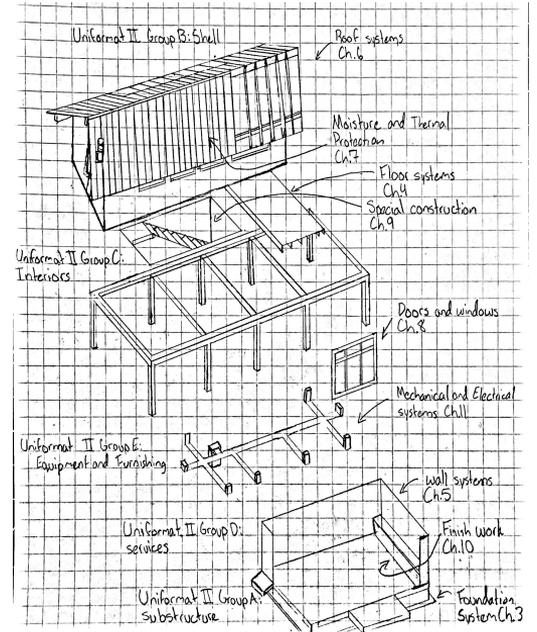
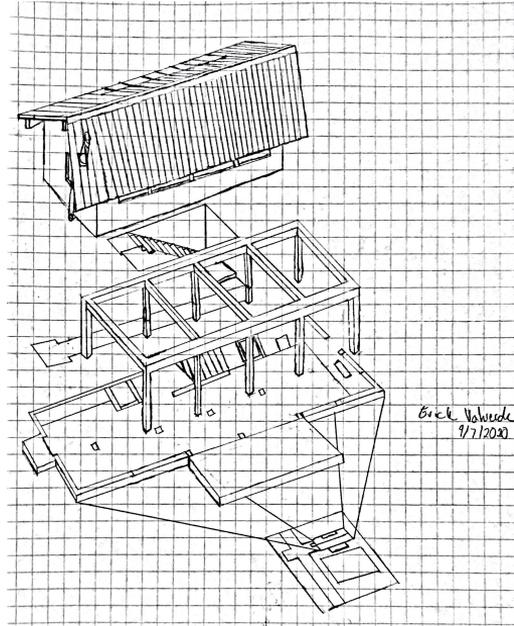




Drawings



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