MASONRY WITH NEAT SKETCH.

Masonry is a construction technique that involves the assembly of building units, such as bricks, stones, concrete blocks, or other similar materials, to form structures. Masonry has been a traditional and enduring method of construction, providing strength, durability, and versatility.

Components of Masonry:

1. **Building Units**

   Building units in masonry can include bricks, stones, concrete blocks, or other specialized units. These units are the fundamental elements used to construct walls and other structural elements.

2. **Mortar**:

   Mortar acts as the binding material that holds the masonry units together. It is a mixture of cement, sand,and water, creating a strong and cohesive bond.

TYPES OF MASONRY

1. **BrickMasonry**

   Uses bricks as the primary building units. Bricks are typically arranged in courses and bonded together with mortar.

2. **StoneMasonry**

Involves the use of natural stones or shaped stones as building units. Stone masonry can be further classified into rubble masonry and ashlar masonry.

3. **ConcreteBlockMasonry**

Uses concrete blocks or masonry units made from concrete. These blocks are stacked and secured with mortar.

Adobe Masonry

Utilizes sun-dried mud bricks (adobe) as building units. Adobe bricks are often used in arid regions.

Masonry Construction Process

- **Foundation Preparation:**

Masonry construction begins with the preparation of the foundation. The foundation provides a stable and level base for the masonry walls.

- **Laying the First Course:**

The first course of masonry units is laid on the foundation. This course is critical for ensuring the alignment and levelness of the entire structure

- **Vertical Alignment:**

As additional courses are added, it is crucial to maintain vertical alignment. This is achieved through the use of plumb bobs and levels.

- **Horizontal Alignment:**

Masonry units are aligned horizontally using string lines and leveling devices to ensure

straight and level walls.

- **Jointing and Finishing**

Mortar joints between masonry units are tooled or finished to enhance the appearance and create a watertight seal.

Applications:

1. Exceptional Durability
2. Fire Resistance
3. Thermal Efficiency & Energy Savings
4. Noise Reduction
5. Low Maintenance
6. Strong Resale Value
7. Design Flexibility