

Appendix III

Project Brief for Batching Plant

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Florence Hall

CONCRETE DRY BATCHING

Dry Batch Plant

Process Description Concrete is composed essentially of water, cement, sand (fine aggregate) and coarse aggregate. Coarse aggregate may consist of gravel, crushed stone or iron blast furnace slag. Some specialty aggregate products could be either heavyweight aggregate or lightweight aggregate. Supplementary cementitious materials, also called mineral admixtures may be added to make the concrete mixtures more economical, reduce permeability, increase strength, or influence other concrete properties. Chemical admixtures are usually liquid ingredients that are added to concrete to entrain air, reduce the water required to reach a required slump, retard or accelerate the setting rate, to make the concrete more flowable or other more specialized functions.

Concrete manufactured is produced at plants that store, convey, measure and discharge these constituents into trucks for transport to a job site. At this plant, sand, aggregate, cement and water are all gravity fed from the weight hopper into the mixer trucks. The concrete is mixed on the way to the site where the concrete is to be poured.

The raw materials are delivered to a plant by, truck.

The cement is transferred by Auger tube. The sand and coarse aggregate are transferred to elevated bins by front end loader. From these elevated bins, the constituents are fed by conveyor to weigh hoppers, which combine the proper amounts of each material.

The process is a Dry process there will not be no washing of aggregate on site

The cement Auger and the aggregate conveyor go in to robber tube in to the mixer truck to start mix



The Effluent Discharged from the truck will be recycled into a concrete tank, the liquids then will flow into another concrete tank and from there to the water tank that store the water for the next concrete mix .The solid waste left in the tank will be added back into the next concrete mix



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