HOH

Associates Engineers Architects Systems Construction Managers

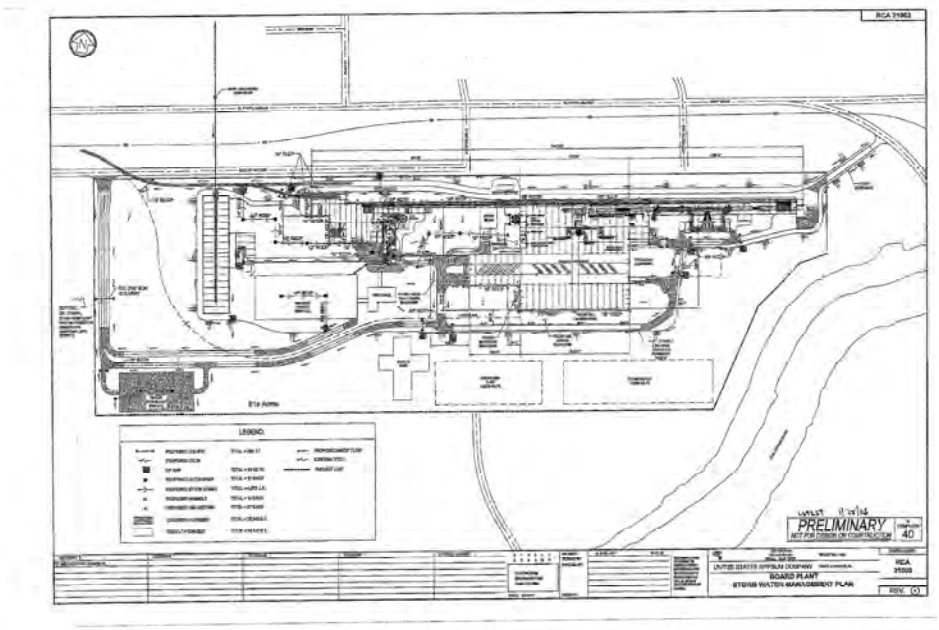
PLANT PLANNING STUDY

PORT STOCKTON, CALIFORNIA

US Gypsum Plant in PORT STOCKTON, CALIFORNIA

This project consists of the planning for construction documents for a new gypsum board plant in Port Stockton, CA for USG.

The site work included Planning for a facility footprint of 70 acres, including construction of a main rail and accompanying ½ mile long plant spur line, installation of a 2 gate crossing signal, mitigation of local floodplain, as well as all necessary drainage and detention facilities, site grading and erosion control facilities. Drainage facilities included over a mile of storm sewer pipes ranging in size from 12" to 36", an 8ft x 8ft box culvert, and development of a WQB (water quality basin), nearly a ½ mile of sanitary sewer, over a ½ mile of water main, and nearly a ½ mile of natural gas piping.

One of the stormwater management challenges was studying the tidal water levels along the San Joaquin Channel and Deep Water Channel to make sure a 35' draft depth was available for barge traffic from the Golden Gate Bridge at the upper end of the Delta to the island of Port Stockton.

One of the grading challenges was raising the site more than 10' to make sure the building foundations were out of the 500 year flood plain. There was ~600,000 cu yd of embankment required for site grading activities. Roadway construction included 74,000 sq yd of bituminous and concrete paving for plant entry and exit roads, and truck access roads to support plant building improvements.