



Case Study

Conceptual Design & Capital Cost Estimate for Materials Processing Facility

Background

In order to meet franchise requirements for a major customer, a confidential client needed to move forward with upgrades to a materials processing facility and the establishment of a separate construction and demolition material processing facility. Development of conceptual designs, capital cost estimates and 3-D facility models were required for inclusion into a presentation to obtain final approval and budgetary assignment.

DEI Tasks

DEI was responsible for completing the following tasks in an expedited manner to support an accelerated schedule:

- Conduct site visits to define property limits, identify available utilities and storm water requirements
- Meet with the client to define the financial and operational goals and objectives of the project
- Prepare civil, structural, architectural and landscape design plans for the facility including project assumptions to be used in a capital cost estimate
- Prepare 3-D models to be used for presentation purposes
- Prepare interior building layouts including the placement of processing equipment to be provided by others
- Prepare capital cost estimates for the design, permitting, and construction of each facility
- Prepare project schedules for the detailed design, permitting (including land use, environmental and operating permits), construction and commissioning of each facility

DEI Scope of Work

DEI was hired to conduct site investigations and prepare the conceptual facility designs, models and capital cost estimates to be presented by the client.

Results

- DEI prepared and presented its work products to the client within the timeframe required

DEI

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