

Executive Summary

Technical Assignment 2, Cost and Methods Analysis, is a detailed analysis of Health and Counseling Services related to project execution. Information gathered in this analysis will be used in future research involving scheduling, cost savings, and site planning. Information for this assignment was gathered through actual project information, estimating software, and extrapolations of information obtained from industry contacts. This report includes a detailed project schedule, critical phase site layout plan, assemblies estimate of the exterior envelope, detailed structural estimate, and a general conditions estimate of the Health and Counseling Services Building.

The detailed schedule shows all major portions of the project broken down into specific trades or grouping of trades where possible. The critical phase of construction chosen for the site layout planning is the steel erection sequence, specifically the location of the mobile crane. Health Services has a glass curtain wall, brick veneer cavity wall, and metal panels encompassing the majority of the exterior envelope. An assemblies estimate of these systems is estimated from the drawings. Two bays of the building were chosen as a representation of typical construction throughout all floors of the building and were extrapolated to give the entire structural systems cost. Finally, a general conditions estimate is included to show how changes to the schedule can affect the final project cost.