



A. EXECUTIVE SUMMARY

This technical assignment provides an introduction to the construction project management techniques for Medlar Field at Lubrano Park which is located in University Park, Pennsylvania. In this assignment, the project is analyzed in terms of a detailed project schedule, site layout planning, assemblies estimating, structural system estimate, and general conditions estimating all which affect the project's execution.

Medlar Field at Lubrano Park is a fast-track traditional project delivery system. The first item analyzed in this assignment is a detailed construction schedule for the project. The schedule shows construction beginning June 1, 2005 and substantial completion reached by May 31, 2006. There are also important milestone dates highlighted throughout the schedule that are important to achieving the project substantial completion on time. Next, the site layout plan is analyzed during the steel / concrete phase of the project. A 100 ton crawler crane will be used to erect steel with multiple mobilizations and a concrete pump is used to place concrete throughout the site. Medlar Field at Lubrano Park contains many added furnishings and equipment which were summarized in an assemblies estimate. Some of the items included are food service equipment, stadium seating, distributed television/sound system and the scoreboard/videoboards. Because Lubrano Park is a very intense structural system, an estimate of one of the more challenging structural bays was performed. This detailed estimate included different length steel columns, steel beams and joists, a full-height cast-in-place concrete retaining wall, and thickened slab areas at non-load bearing walls. Lastly, a detailed general conditions estimate was calculated for the total project length of 16 months. The general conditions estimate included staff costs with an integrated fee value.