

CE431 Construction Contracting
Term Project: Detailed Cost Estimating
Ann Arbor Fire Station #6

CONCRETE FLATWORK ESTIMATE

Prepare a detailed estimate for the **concrete, reinforcing steel, and concrete finishing** work required for the **interior slabs on grade** for Ann Arbor Fire Station No. 6.

This work is described in the specifications under:

Division 3A 2.a

Items:

4. Interior slabs on grade and columns (except columns)
7. Reinforcing steel and required accessories (for slabs only)
8. Vapor barrier (for slabs only)

This is an introduction to detailed estimating. As such, it does not include estimating any formwork. Even though you will determine the necessary checkerboard concrete placement plan, you should not include estimates for edge forms, or forms for checkerboard concrete placement.

A good description of concrete placement and finishing procedures, photographs, etc., for slabs on grade can be found in *Fundamentals of Building Construction, Materials and Methods* by Edward Allen (CEE537 textbook). A copy of this textbook is on reserve in the Construction Lab.

You must turn in your entire estimate in the format given to you in the course. Your estimate will include a Summary. There is no such thing as scratch paper.

This assignment will be graded and returned. Subsequent corrections should be made directly on your takeoff sheets and the entire estimate must be handed in later as part of the complete project estimate.