



Kiewit

Infrastructure Group

To: All 2012 ASC Region VI Heavy Civil Estimating Competition Participants
From: Kiewit Management
Re: 2012 Problem Statement

Introduction

For the 2012 Region VI Competition we have selected a project that encompasses multiple aspects of Heavy/Civil construction. You will be required to estimate and present your findings to a group of Kiewit managers in an estimate review format.

In order to compete successfully all participants will be required to perform quantity take-offs (English or Metric units), cost estimating and pricing, problem solving and planning, scheduling, quote analysis, and oral presentations. Furthermore, you must demonstrate your knowledge and understanding of the project, provide a logical and efficient approach to the work, demonstrate an appreciation for the technical challenges involved, and be able to communicate these skills through both written and oral presentations.

Scoring

Scoring criteria will be assigned to each main category and to subcategories to establish a consistent scoring guide for the panel of judges. The following scoring criteria are for the main categories:

Bid Submittal and Binder	
Bid Documents Complete and Extended	300 Points
Takeoff and Estimate Items	500 Points
Schedule	100 Points
Oral Presentation and Questions	1500 Points
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TOTAL	2400 Points

Problem Scope

The problem will involve the following aspects of Heavy/Civil construction: excavation and embankment, shored excavation, wall and bridge construction, cast-in-place concrete, reinforcing steel, and asphalt paving.

In preparation for the Competition please review the processes, means, and methods required to perform the tasks listed above, as well as understanding the anticipated features of work.

Competition Process

All teams will receive the project documents according to the schedule below. After a brief review period a Pre-bid Meeting will be held, consisting of a photo tour of the project site, a review of the bid documents, as well as the RFI process. This Pre-bid meeting is not mandatory, however attendance is highly recommended.

Each team must then estimate and assemble the required materials for the bid turn-in and oral presentation. Each team will submit their bid to Kiewit Management before the scheduled deadline. Following submittal of the bid, the judges will verify responsiveness of the proposal by reviewing, timeliness, completeness, and accuracy of the pricing extensions. The actual bid results will be posted the following day after all bid reviews have been completed, prior to the Oral Presentations. Bids which are submitted after the published submittal time will be considered non-responsive.

Following submittal of the bid, teams must prepare and submit oral presentation materials. The presentation will be similar to a typical estimate review where the estimators will present their project understanding, schedule, estimate and risk analysis to Kiewit Management using simple visual aids and oral presentation. Teams should dress business casual for this review. This is not intended to be a sales presentation. Remember: The judges will focus on the content and quality of the estimate and emphasize the basics of construction estimating, scheduling and planning.

Preparation

Teams and team members are advised to prepare for the competition by focusing on the following skills.

1. Quantity Take Off

- a. Earthwork, concrete, reinforcing steel, pipe, paving, etc, in both English and Metric units.

2. Problem Solving

- a. Specification reading, plan reading, method analysis, scheduling, etc.
- b. Construction methods, concrete placing, excavation planning and layout, equipment analysis, etc
- c. Basic understanding of environmental BMP's.

3. Cost Estimating

- a. Labor, material, equipment, subcontract analysis.
- b. Production calculations, crew analysis.
- c. Presentation, organization, and readability.

4. Pricing

- a. Unit pricing extension, overhead and profit, use of estimating spreadsheet.
- b. Job in-directs, (onsite only).
- c. Error avoidance.

5. Contracts

- a. Special provisions.
- b. Contract review.
- c. Submittal of proper bid package.

6. Proposal Presentation

- a. Project overview, problem solutions, schedule, etc.
- b. Verbal skills, presentation graphics, charts, etc.
- c. Logic, order, clarity, technical accuracy, etc.

Schedule of Events

Thursday, Feb 9	6:00 AM – 6:15 AM	Distribute materials to teams
	7:30 AM – 8:00 AM	Owners Pre-bid conference
	10:00 AM – 2:00 PM	RFI question and answers
	3:00 PM – 10:00 PM	Subcontractor and material supplier quotations and adjustments
	10:30 PM	Bid package due
Friday, Feb 10	6:30 AM	Submit presentation materials
	7:00 AM	Oral presentations start (20 minutes oral presentation, 10 minutes of questions and answers).
	6:30 PM (approx)	Note: Start/finish times will be determined at bid turn in. Problem debrief by the judges
Saturday, Feb 11	TBD	Award presentation

Conclusion

This competition is intended to test, challenge and prove your skills as an estimator/contractor. It is our intention to provide a realistic estimate environment, including bid close-out, while maintaining a fun and educational experience. Start your preparations now. We look forward to seeing you in February!