

HEAVY CIVIL PROBLEM STATEMENT

ASC REGION 3 COMPETITION - OCTOBER 2025



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INTRODUCTION

Welcome, and thank you for your interest in the ASC Region III Heavy Civil Estimating Competition. F.H. Paschen is excited to sponsor this event! Thanks to all the participants and good luck!

PROBLEM DESCRIPTION

FH Paschen, in partnership with the City of Chicago, Obama Foundation, and Chicago Park District, is executing the multi-phase Jackson Park Mobility Improvements project. This Initiative is designed to enhance safety and access for pedestrians, cyclists, and motorists in and around Jackson Park

Critical aspects of this project involve:

- The widening and reconstruction of Stony Island Avenue.
- The complete reconstruction of Hayes Drive, including new pavement, drainage systems, street lighting, and traffic signal infrastructure.
- The construction of new underpasses to allow cyclists and pedestrians to safely cross major roadways.

To be prepared for the competition, teams should be familiar with the takeoff, pricing, means and methods, and scheduling of the major scopes of work. Exact scopes and bid form will be provided at bid time.

EVALUATION

F.H. Paschen, acting on behalf of the owner, will form a panel of judges, who will utilize a detailed scoring sheet to make evaluation of your work as objective as possible. This detailed rubric will be provided to teams at the beginning of the competition. It is highly recommended that teams exercise effective time management and prioritize their efforts on the items of greater point value.

Successful teams will demonstrate full knowledge of the plans, specifications, and construction methods. They will also exhibit professionalism and strong communication skills in all aspects of the competition.

WRITTEN PROPOSAL & PRICING (70/100 POINTS)

One electronic copy of the proposal shall be turned into the competition judges by the project deadline. You will be provided with USB drives that you need to submit your proposals on.

When grading the written proposal, judges will review the following:

- Organization and appearance
- Completeness
- Consideration of owner concerns / Special provisions
- Spelling and grammar
- Ability to master the details while maintaining a view of the big picture

The written proposal shall include the following sections:

- A. Proposal Cover Letter:** Introduce your company and provide a brief outline of the submitted proposal. Cover letter shall include: date of proposal, total bid price, acknowledgement of addenda, and signature of company officer(s).
- B. Organizational Chart & Job Descriptions:** Include an organizational chart showing chain of command. Also provide brief job descriptions. Please note that resumes are not required and will not be considered for value added points (see below for more information about value added points).
- C. Safety Plan**
- › **Task Hazard Analysis (THA):** At the beginning of the competition, teams will be assigned specific activities for which they shall provide task hazard analyses. The following items should be considered: personal protective equipment (PPE), fall protection, shoring/scaffolding, formwork, trenches/excavation, fire protection, material handling, tools, equipment, and permits.
- D. Quality Assurance**
- › **Task Quality Analysis (TQA):** At the beginning of the competition, teams will be assigned specific activities for which they shall provide task quality analysis. The following items should be considered: equipment and tools, materials and deliveries, engineering and survey, inspection needs, and owner concerns.
- E. Project Overview Schedule:** Provide a project overview schedule in the format of your choice (P6, Microsoft Project, excel, etc.). Teams shall include a schedule narrative to identify any concerns and demonstrate knowledge of the project conditions. Schedules should include level of detail required to demonstrate thorough understanding of the project's sequence, phasing and logistics.
- F. Site Logistics:** Submit a site logistics plan with a narrative. It is recommended teams use google earth images to depict what will be happening in each stage of the project.
- G. Estimate of Work:** This will be the largest portion of the proposal; teams will be given a copy of the bid form. Bid items will be designated as one of the following: (1) Quantity Takeoffs, (2) Self-Perform Costs.
- › **Quantity Takeoffs:** Detailed quantity takeoffs must be provided for all bid items. Any form of takeoff is acceptable (handwritten, spreadsheet, annotated pdf, estimating software, etc.).
 - › **Self-Perform Cost Estimate:** Self-perform cost estimates must be provided for type (2) bid items. Cost estimates should be performed in estimating software or an electronic spreadsheet; other formats are at the discretion of the team. As part of the self-perform estimate, means and methods should be discussed and/or demonstrated through graphics. Judges will also be looking for THA's and TQA's for these items.
 - › **Estimate of General Conditions:** Teams should research the following topics ahead of time to understand what they are and how they impact estimated costs during the competition.
 - › Overhead: What is the cost of management on the job? Will any temporary facilities such as a jobsite office be required?
 - › Insurance & Bonding: Consider Performance Bond, Builder's Risk, and General Liability
 - › Contingency: Include risk analysis
 - › Fee

OWNER'S MEETING (30/100 POINTS)

Presentations and interviews with an owner are a critical part of getting new work in the construction industry. The owner's meeting is an opportunity for teams to present their proposals to the judges and explain why they are the contractor for the job. Judges will score the teams on the following criteria:

- A. Project Overview:** identification of project challenges (logistics and scheduling) and solutions
- B. Organization:** logic, order, clarity, and technical accuracy of the presentation
- C. Incorporation of Visuals:** effective use of text, graphics, and other visuals in the presentation
- D. Answers to Judges Questions:** accuracy of responses to proposed questions and knowledge of project by all members
- E. Appearance:** professionalism, vocal projection, verbal skills, confidence, etc.
- F. Teamwork:** cohesion and organization, equal participation of members during presentation

Value Added Points

Teams can also receive additional points for value engineering added in their proposal books and owner's meeting. Points for value added will be awarded at the discretion of the judges.

COMPETITION RULES

Team Membership:

- Teams may have a **MAXIMUM** of six students. Students must be currently enrolled on a full-time basis in an engineering or construction curriculum. Alternates are not allowed.
- **All team members must attend the pre-bid presentation of the problem on October 23th, 2025, at 8:00 a.m.**
- **Team captains should reach out Thagen@fhpaschen.com prior to the distribution project documents with the following information -**
 - » Team Captain Contact Information
 - » Team Name
 - » Team Members
- During the Pre-Bid presentation, everyone is welcome to attend (coaches, friends, spouses, students other than team members, AGC members, ASC members, etc.). The teams will start the problem following the meeting.
- **Once the problem has been distributed, each team will be on the honor system regarding outside help.** No one other than the team members can provide input during the preparation of the proposal response and owner's meeting (except for the judges). **This includes faculty, coaches, friends, spouses, etc.**
- Only one coach is permitted per team. The coach's job is to encourage and support in any way deemed appropriate. However, once the competition begins, the coach's role is to ensure that rules are followed. In case of emergency or should a coach need to contact his or her team during the competition, the coach must be accompanied by a judge. **NO EXCEPTIONS.**

WRITTEN PROPOSAL:

- Teams will choose a team name prior to the competition. Teams are responsible for including team name on any submission to the judges (proposal, RFIs, electronic documents).
- All proposal books should be submitted to the judges room in a PDF format on the FHP provided USB drives.
- The proposals must be submitted for review by the judges no later than **October 23th, 2025, at 11:00 p.m.** Any proposals submitted after 11:00 p.m. will be considered late. For scoring purposes, any proposals (or

portions thereof) turned in after the deadline will have one point deducted for each 5-minute interval beyond 11:00 p.m.

- **Teams shall submit presentation materials to the judges by 8:00 a.m. on October 24th, 2025.** This includes any electronic files and visual aids. Only the materials given to the judges by this time will be allowed at the owner's meeting. For scoring purposes, any presentation materials turned in after the deadline will have one point deducted for each 5 minutes beyond 8:00 a.m.
- Presentations will begin at **9a.m. on Friday, October 24th, 2025.** Each team will be allotted 30 minutes for their presentations and 10 minutes for setup and take down.

TEAM	PRESENTATION TIME
Team 1	8:00AM
Team 2	9:00AM
Team 3	10:00AM
Team 4	11:00AM
Team 5	1:00PM
Team 6	2:00PM
Team 7	3:00PM

- Each member of the team must contribute to the presentation in a meaningful way. It is mandatory that the following roles be assigned and in attendance for the owner's meeting: Company Officer, Project Manager, Chief Estimator, Superintendent, and Project Engineer. The remaining position should be titled at the discretion of each team.
- Videotaping of your team's presentation is permitted. Please ensure that any videotaping or photography is done in a way that does not distract the team members during their presentation.

EQUIPMENT & TECHNOLOGY:

- Each team will be allowed to use whatever equipment they feel necessary to solve the problems.
- During the owner's meeting, please ensure you have all equipment working prior to presenting.
- Teams are allowed to utilize any reference material they deem necessary for the preparation of the proposal.

MISCELLANEOUS RULES

- Requests for Information (RFIs) may be emailed to the judge (see information below) **3pm deadline**.
- The winning team will be announced at the Awards Ceremony during the morning of 10/25/2025.
- Any questions or problems should be reported to the Competition Coordinator, Tim Hagen, thagen@fhpaschen.com / (708-712-7885)
- This is the last rule, which is the most important rule and mandatory: **HAVE FUN!**

COMPETITION SCHEDULE:

DATE	TIME	EVENT	ATTENDEES
10/23/2025	7:00AM	Pre-bid meeting	Judges & Teams
10/23/2025	7:30AM - 11:00PM	Student project work	Teams
10/23/2025	11:00PM	Project report submission deadline	Teams
10/24/2025	8:00AM	Project presentation submission deadline	Teams
10/24/2025	3:00PM	Competition judging and scoring	Judges
10/25/2025	8:00AM	Awards Ceremony	All

ETHICS NOTE:

Ethics and moral standards are highly regarded in the construction industry. You are on the honor system during the competition. **Any help from coaches, professors, or other teams is prohibited.** That being said, we want you to use outside resources to solve problems you are stuck on. Googling, calling sub-contractors, or bringing in textbooks, is encouraged.