Associated Schools of Construction
2026 Student Competition
Concrete Solutions Problem Statement

Introduction

Lithko Contracting is proud to sponsor the 2026 "Concrete Solutions" ASC Student Competition problem. Welcome, and thank you for your participation.

Concrete has been a cornerstone of construction for over 2,000 years. Nearly every project includes concrete in some form, and for many, it serves as the primary structural material. Modern ready-mix concrete provides tremendous flexibility to meet diverse architectural and sustainability demands.

The ASC Competition offers students an immersive experience that simulates real-world challenges in construction. Participating in the Concrete Solutions Competition provides a unique glimpse into the dynamic environment of self-performing subcontractors.

This competition is a valuable career development opportunity. It allows students to demonstrate technical ability, leadership skills, and the ability to collaborate—while networking with potential employers and construction professionals. Congratulations on choosing to compete!

Problem Overview

Your company is invited to submit a proposal for the **Structural Concrete Package** for a multi-story building located in a growing urban area. The scope includes both structural and non-structural elements such as:

- Columns
- Structural Decks
- Miscellaneous MEP Pads / Curbs
- Interior Pan Stairs

The project will require exceptional attention to detail, safety, quality, and creative constructability approaches.

Lithko Contracting has been awarded the Concrete Package for this project. We are seeking a local subcontractor to perform this scope of work on our behalf. All work must be executed to meet Lithko's standards. Post-bid interviews will be conducted to ensure the right partner is selected.

Competition Expectations

Teams will be evaluated based on the following components:

- Constructability review
- Quantity takeoff accuracy
- Basic estimate development
- Concrete placement sequence.
    - To include structural decks and columns.
- Duration schedule and manpower plan.

- Detailed safety plan addressing site-specific and task-specific risks
- Evaluation of forming systems, equipment, and concrete delivery methods

Note: This is not a preconstruction exercise. The focus is on *constructability* and *creative problem solving*.

Required Deliverables

1. **Statement of Qualifications (SOQ) - 5 Points**
    - Actual student resumes
    - Organizational chart with defined team roles and responsibilities
    - Project approach

      A detailed RFQ will be distributed one week before the competition to assist in preparing your SOQ.

2. **Proposal - 25 points**
    - Completion of provided bid form
    - Include clarifications and exclusions
3. **Constructability Plan - 25 points**
    - Construction Pour Sequence to include structural decks and columns.
    - Aligns with the provided project schedule
    - Will be validated during feedback sessions
4. **Post Bid Interview - 25 points**
    - Includes a team presentation and open discussion
5. **Identify a Concrete Solution(s) - 20 points**
    - Identified Key Issue(s)
    - Presented a Viable Plan or Solution(s)

Scoring Criteria

- Statement of Qualifications
- Proposal content and accuracy
- Constructability Plan
- Post-bid interview performance
- Bonus points for a creative and well-justified “Concrete Solution”

A detailed breakdown of scoring will be provided after the competition.

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Important Notes

- Participation is limited to **seven teams**, accepted on a **first-come, first-served basis**.
- All deliverables must be submitted electronically.
- Awards will be presented to:
    - 1st, 2nd, and 3rd place teams
- Full competition information can be found here: https://region4.ascweb.org/student-competition/