

NAU Steel Bridge

Meeting Agenda

Date / Time: November 7, 2017 / 6:30 PM - 7:30 PM *Meeting Called By:* Ian Connair

Present Members: Isaac Block, Ian Connair, Taylor Erdmann, Matt Parrish

Technical Advisor: Tommy Nelson

Meeting Begins: 11/07/17 at 6:30 PM

Input on the Preliminary Designs

- The Warren and Pratt truss types present too many connections.
 - Added cause of deflection due to fabrication error.
- The Arch Bridge has potential, but presents fabrication issues with angled members
- “Roof” Truss bridge is simple, but members exceed allowable length.
- Compromise between the Arch and “Roof” Truss bridge may present desired result.

Thoughts on Decision Matrix and Preliminary Scoring

- Categories and weights appear appropriate.
- Beam Bridge should be included for thorough evaluation.

Input on Connections and Steel Type

- Keep fabrication at the front of the mind while designing members.
- Light Gauge Steel to abide by separate standard.

General Guidance for 3D Design

- Ensure members meet appropriate lengths.
- Run Unity and Shear tests throughout design process.