

Project Status Report: CPST-0 06

Weekly Mtg: 02/24/2024 at 9 am, EB 305

Team Members: Andrew Olsen, Becca Apgar, Caroline Preece

Project Title: Springville Road Crossing

1) Summary of technical/non-technical challenges encountered

- Scheduling for regular meetings with Dr. Hotchkiss
- Difficulty using HEC Ras and understanding the acronyms in HEC Ras, even when searching the users' manual
- Determining bridge size and location to model accurately in HEC Ras – not linked up with google or any GPS

2) Team approaches & resolutions to overcome challenges

- Reading bridge chapter in the users' manual and watched a video tutorial to see it visually
- Research on short span bridges - try and see what would work and whatnot
- Use elevations to figure out which cross section to use

3) Status of challenge resolutions & potential project impact

- We are a little behind on design work but with meetings scheduled and other work completed, we are feeling relatively okay
- HEC RAS user's manual is helping us to understand bridge design for the model

4) Project status & summary

- Researched short span bridges and used a free software to get some ideas for developing cost estimates
- 100-yr flood elevation gathered from FEMA maps
- Looked at bridge composition (i.e. girder types, concrete deck thickness) and guardrail types
- Weekly meetings scheduled with Dr. Hotchkiss in the future
- Read through bridge chapter in the HEC RAS user's manual
- Attempting preliminary bridge models in the HEC RAS file

Please enter # of hours spent on project this last week for each team member in the order listed above