

Project Status Report: CPST-0 06

Team Members: Andrew Olsen, Becca Apgar, Caroline Preece

Project Title: Springville Road Crossing

**Report Date: Met Saturday over Zoom
At 4:30 pm**

1) Summary of technical/non-technical challenges encountered

- One team member had to leave the state for PCI conference and was unavailable for the entire week
- Cannot export channel profile from RAS to use in HY-8 which means the channel has to be copied over point by point.
- HY-8 looks like it has water flowing outside of the channel and we are not sure why it is doing that
- Becca cannot download the programs since she has a Mac and the programs cannot run on MacOS

2) Team approaches & resolutions to overcome challenges

- Becca and Andrew met together during the week to problem solve using the computer programs and setting up the test runs for initial culverts
- Met with Dr. Hotchkiss to clear up confusion over HY-8 and HEC RAS and to flesh out further details for our next steps

3) Status of challenge resolutions & potential project impact

- We were able to run HY-8 with some preliminary numbers
- We tried with two different channel sections and 3 box culverts set next to each other in order to create some rating curves

4) Project status & summary

- We have some preliminary rating curves from HY-8
- We chose the cross section in HEC RAS that is the closest to the site of the crossing
- We calculate elevation and slope data from the HEC RAS file
- We recorded the n values for the channel at the cross section that we picked.
- Pulled rating curve from HEC-RAS at the same cross section to compare to the rating curves from HY-8
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Please enter # of hours spent on project this last week for each team member in the order listed above