

Project Status Report: CEE-2018CPST-013

Report Date: Feb 19, 2019

Team Members: Craig Staples, Alec Escamilla, Paul Andersen

Project Title: Springville Performance Evaluation & Pavement Design for Minor Collectors

1) Summary of technical/non-technical challenges encountered

This week's challenge was to complete our 24 hour count for the busiest street of our traffic study. This meant that an additional 12 hours of video footage needed to be viewed. Completing these counts will allow our analysis to proceed. One member of our team will be trained by our faculty mentor in a roadway design software which we will use to prepare a new pavement mix design for the city. This will be a significant challenge to overcome and we will rely heavily on this one team member to accomplish this task and carry our team in this regard. Our final technical challenge will be finishing the frost heave survey. This challenge is ongoing because it is weather dependent. We will require 3 days of consistently above freezing temperatures before we can survey these points again.

2) Team approaches & resolutions to overcome challenges

Our approach to these problem was the following:

1. Team members are viewing the traffic cam counts at their personal availability and are aiming to complete these by the end of the week.
2. Our team captain, Craig Staples, is working with Dr. Guthrie to learn our design software. Our other team members are working on a spreadsheet to calculate the ESAL values efficiently.
3. Our team is watching the weather and praying that it warms up for at least one week so that we can progress without delay.

3) Status of challenge resolutions & potential project impact

Our team is progressing towards our design goal. Our realistic projections for the timeline to completion of this project have been reevaluated because of the cold weather concerns.

4) Project status & summary

While our team hopes that the weather will warm up to abate the frost, we are also preparing for the last few weeks of the semester to be the busiest. We are continuing to do all that we can by learning the design software, and factoring other parameters into our design as guided by Dr. Guthrie.

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