**Project Status Report: CEEn-2018CPST-013** **Report Date: Feb 25, 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.

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.

The new software is proving to be a challenge. One particular value that is necessary for our analysis is not being output.

## 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 is watching the weather and praying that it warms up for at least one week so that we can progress without delay.
3. Craig will continue to work with the software to figure out why it is not outputting the proper information. He will seek help from Dr. Guthrie if necessary.
4. Paul and Alec will be reaching out to Dr. Guthrie to get the proper ESAL values for the newly working spreadsheet.

## 3) Status of challenge resolutions & potential project impact

The weather has improved and we are planning to go out and survey assuming the warm weather holds.

The majority of the traffic counts needed are complete. There are only a few hours left to be done.

## 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. We will continue to work on finding the proper axle load weights to get accurate ESALs.

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

**Craig Staples:** 3.5 **Alec Escamilla:** 6.5 **Paul Andersen:** 6.25