

**Project Status Report: CEEEn-2019CPST-0 04**

**Report Date: 3/2/20**

**Team Members: Jacquelyn Winfield, Andee Guy, Tanner Roberts**

**Project Title: Kiewit Bulkhead Evaluation**

**1) Summary of technical/non-technical challenges encountered**

- The depth of embedment that we had been assuming was 8ft, which was close to the needed embedment that we were calculating, which didn't give very much of a factor of safety.
- One of the challenges that we've had in determining the soil pressure is knowing which analysis to use.

**2) Team approaches & resolutions to overcome challenges**

- We emailed Jaren and he told us that he used an embedment depth of 9 ft., so we redid some of our calculations with this value.
- We have talked to Dr. Rollins and Dr. Franke and tried analyses with a strip footing, a point load, and a grid of point loads distributed over the area of the loading pad.

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

- We have updated our calculations and now need to check all of the modes of failure with this depth of embedment.
- We still need to confirm with Dr. Rollins on the final method that we will use to determine the soil pressure distribution.

**4) Project status & summary**

- We are slightly behind where we thought that we would be with our calculations, but now that we have a new embedment depth, we should be able to finish our calculations for the failure modes soon.
- Our team met together this last week to revise our schedule in order to complete the project on time. We will be finishing our calculations and analyses within the next two weeks so that we can start on a monitoring plan and the final report.

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

Member #1: 6

Member #2: 4

Member #3: 9

Member #4: