

BYU ENGINEERING

Civil & Construction Engineering

CAPSTONE

Project Status Report: CPST-0 05

Team Members: Julianna Edington, Isaac Averett, Josh Sweeten

Project Title: SEA Engineers

Weekly Mtg: 3/12 – CB building CAEDM lab

3/14- CB building CAEDM lab

1) Summary of technical/non-technical challenges encountered

- We are waiting on architectural drawings from Scott
- We are working on steel deck / concrete slab calcs
- We started the storm shelter- using enercalc software
- We began working on poster and powerpoint
- We are having to fix calcs to account for interior wall because it is load-bearing
- We need to check screws for tension in lateral calcs

2) Team approaches & resolutions to overcome challenges

- We are mostly done with the CAD drawings – around 90%
- We need to work on the lateral loads, and calcs for storm shelter
- We are going to adjust beams, concrete slab and deck, we want to be sure we are being cost effective
- We met with Dr. Judd last week and he gave some input for lateral calcs
- We are going to meet aaron and spencer this Thursday to get some feedback on our design

3) Status of challenge resolutions & potential project impact

- We are on track with our project; we are currently working on the structural drawings and calcs
- We are hoping to get the architectural drawings soon, Bob will follow up with Scott on this
- We will finish up on the lateral loads and steel deck
- We are working on poster and draft report

4) Project status & summary

- Currently almost done with our CAD drawings- finished roof, floor and foundation
- Almost done with lateral loads, making a spreadsheet to select screw size and accounting for seismic and wind. Need to add tension calcs
- Working on poster and report

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

3/18/2024

Member #1: 2

Member #2: 4

Member #3: 2

Member #4:

Member #5: