Woodcrest Bridge Project

DYLAN CLEMENTE
DEXTER EHRENZELLER
BRADLEY SLOOP

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Mission Statement

“To use our skills and abilities to impact the community around us in a way that shows God’s love”
Our Client

Cliff Martin, Executive Director
Client

Construction

Engineering & Design

Larson Design Group®

The Collaboratory

Horst Construction
Past Bridge History

- Panama Bridge team
- Split into multiple teams
Project Need

- Need for a crossing over a rock swale to connect a hiking path
- Providing a ministry opportunity for Woodcrest Retreat
- Provide a point of interest for the camp
Solution: Bridge Type Selection
Selected Bridge Design

Our goal is to be able to build this bridge within a budget of $15,000 after donated labor and materials.
Profile View of the Bridge
Decking and Cable Design
Foundation Design
Anchor Design
Tower Design
Stair Design
Conclusion / Future Plans

- Calculations and Design is in the process of being verified by Larson Design Group

- Documentation has been submitted to Larson Design Group to obtain permitting over the summer.

- Foundation work will begin in Fall of 2017
Acknowledgements

- Professor Heisey - For his support and guidance for our team.
- Dr. Swartz - For his involvement and bridge structure input for our team
- Larson Design Group - Mr. Quentin Rissler, PE, and Mr. Michael Kuhns, PE
  For providing significant time and technical input to help improve our bridge design and to reach our goals.
- Tyler Miller - For assistance in design and calculations.
- Horst Construction - For assistance in construction estimating.
Questions?