THE PROBLEM
Currently about 50% of students make the trip over to the President’s Residence at Orchard Hill during the school year. Yet, there is no safe way for students to walk between Orchard Hill and the campus. With the Oakwood Hills development starting construction and solidifying commercial planning, the future pedestrian traffic between Messiah College and the development is expected to keep growing. Because of this expected growth, there is growing concern for pedestrian safety. With both Rider Musser Developers and Messiah College realizing this, a safe way to travel between the two communities has become of high importance. Our team was created to serve both the college and Rider Musser by coming up with, analyzing, and designing safe pedestrian access between Messiah College and Oakwood Hills.

PROJECT GOAL
Our goal is to develop a safe pedestrian access path to connect the Messiah College community with the Oakwood Hills development. While safety is our upmost concern, we want to design a path that also considers convenience for pedestrians and aesthetics, serving our client’s vision for Grantham Road and the trails in Oakwood Hills.

GRANTHAM ROAD SIDEWALK PROPOSAL
• Surveying of land along the road
• AutoCAD design of possible paths and compared options
• Selection of optimal path and continued design and cost estimation
• Presentation of best option to Messiah College and Derck & Edson
• Use of the College’s Legacy Project as a guiding vision

SURVEYING
• Created a quick guide for Collaboratory teams using the survey stations
• Conducted Surveys of Grantham Road and Oakwood Hills along the stream

OAKWOOD HILLS PATHS
• Work with Rider Musser to develop additional trails and paths
• Determine potential path and crossing options
• Work to connect the two halves of the development

FUTURE WORK
• Design of trails and bridges in Oakwood Hills
• Finalization of Grantham Road design for Derck & Edson, Civil Engineers for Messiah College

ACKNOWLEDGEMENTS/PARTNERS
 TEAM MEMBERS
 Caleb Stevens
 Kevin Breisch
 Alex Issis
 Justin Witters
 Treavor Moore
 Nate Myers
 Brandon Weindorf
 Team Advisor- Bryan Hoover, P.E.

CLIENTS
 RIDER MUSSER
 DEVELOPMENT
 MESSIAH COLLEGE