



OAKWOOD HILLS PEDESTRIAN ACCESS

Caleb Stevens, Alex Issis

The Problem

The proposed development would include some restaurants and other businesses that the Messiah College community could access. There are no dedicated pedestrian access points that allow the Messiah College community to cross West Lisburn Road safely. The problem exists even prior to a new development as increasing numbers of students cross Lisburn Road for events at Orchard Hill – home to Messiah College’s presidential family. Concerns around pedestrian safety are exacerbated with the growing likelihood of new development and increased pedestrian traffic. Further refinement of the problem statement, including developing parameters for a successful deliverable, is ongoing through the start-up phase of this project.



Project Goal

Develop a pedestrian access solution, for the Messiah College community to have a safe connection between the Oakwood Hills development and the Messiah College campus. The solution must ensure safety, while balancing cost and user convenience. Work must be done on both Grantham road and West Lisburn road to provide a safe crossing for pedestrians.

West Lisburn Road Crossings

- The final three West Lisburn pedestrian crossings include a pedestrian crosswalk, pedestrian bridge, or pedestrian tunnel
- Presented a decision matrix on how the team graded these crossings
- Included team’s initial design of pedestrian bridge and tunnel

Pedestrian Crosswalk



Pedestrian Bridge

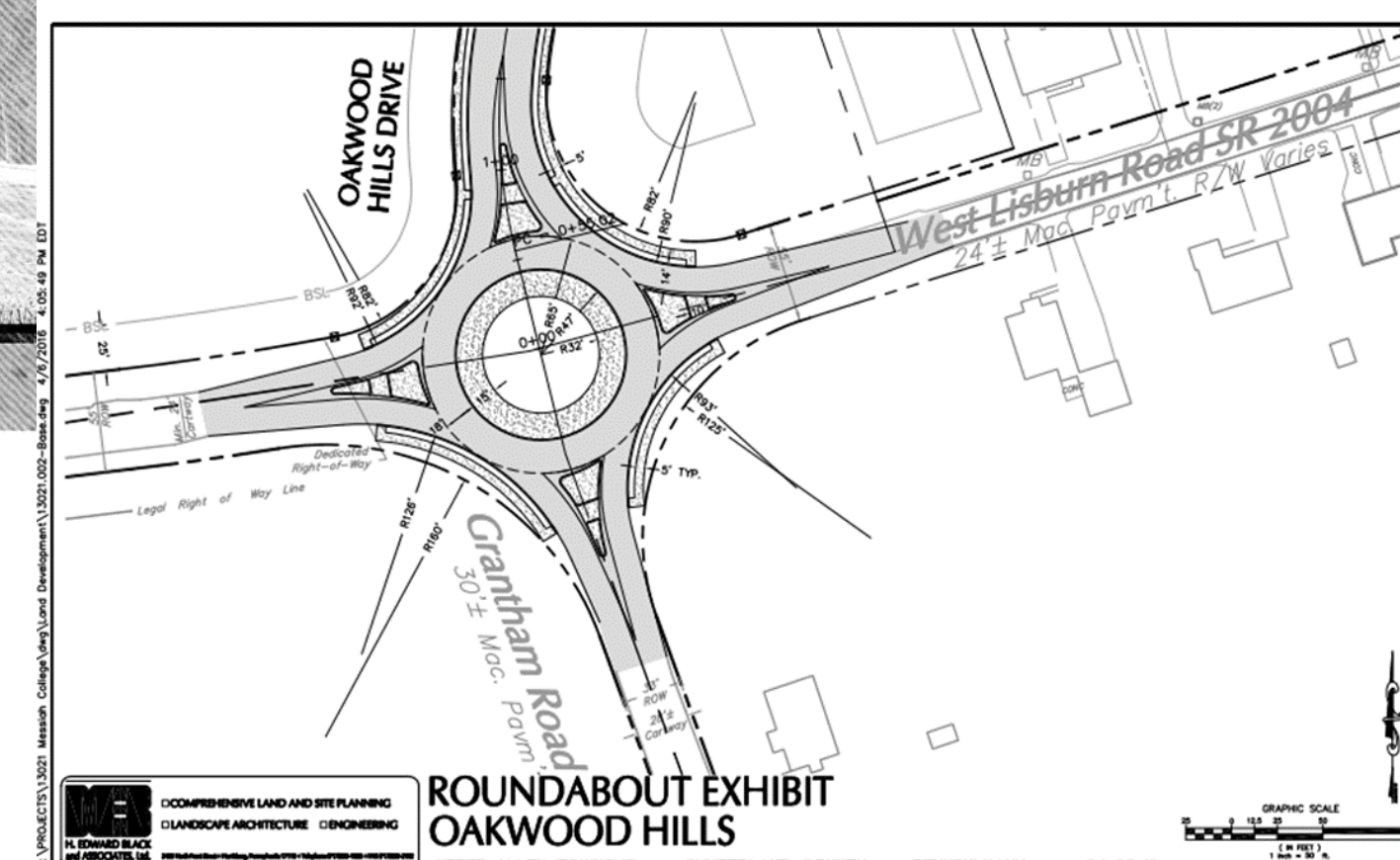
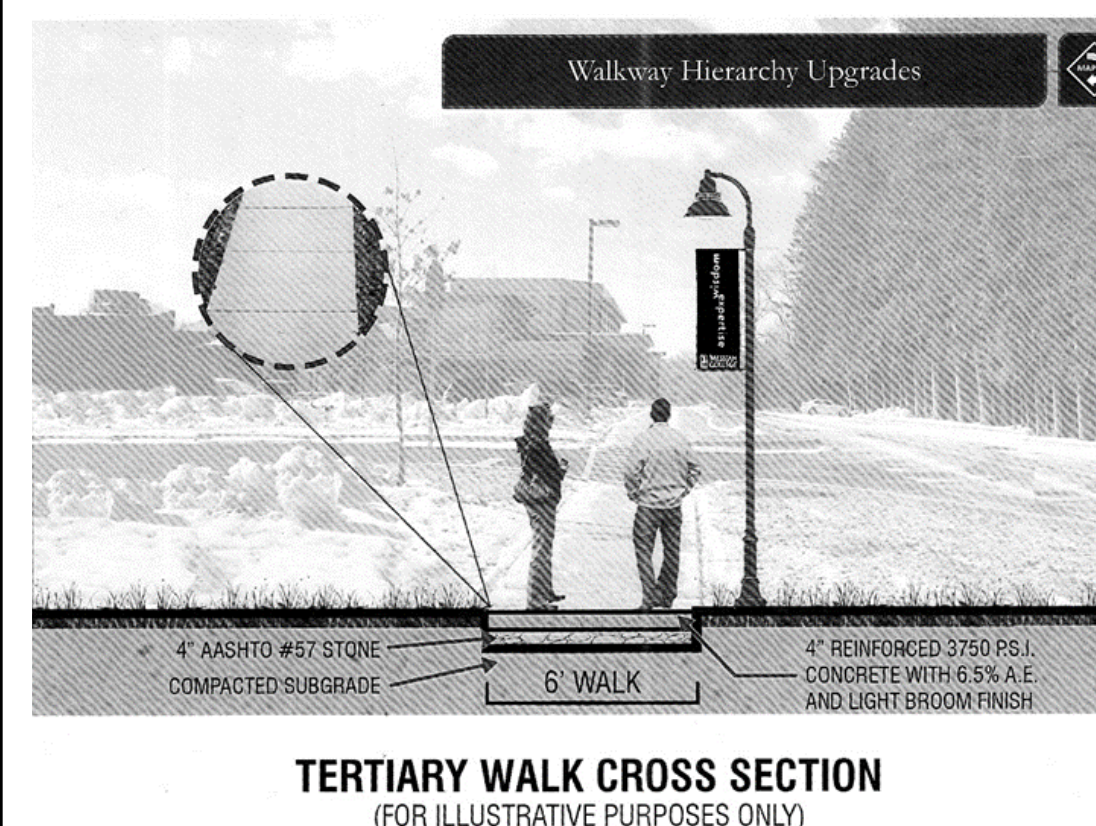


Pedestrian Tunnel



Grantham Road Proposal

- Preliminary design and cost estimation of Grantham Road side-walks
- Receive background information on campus standards and utilities
- Work with H. Edward Black on the future Right-of-Way’s with the new roundabout



Surveying

- Gained further knowledge in surveying lessons
- Surveying of Grantham Road



Future Work

- Obtain documentation for 100-year storm water plan
- Complete preliminary design of a sidewalk profile for Grantham Road
- Finalize cost analysis to assist Kathie Shafer



Acknowledgements/Partners

Team Members



Ben Holderman
Kevin Breisch
Caleb Stevens
Alex Issis
Justin Witters

Team Advisor- Bryan Hoover, P.E.

Clients

