

# Youngstown State University Campus Green Infrastructure Plan

## Flow Calculations

### Abstract

Our research group outlined a green infrastructure plan for priority areas throughout the Youngstown State University campus. Overland flow calculations were performed to evaluate the site in its current state and the site after it would be remodeled to improve rainwater flow. Environmental sustainability was kept in mind, through incorporating permeable pavement, rain gardens, and bioswales. The final priority of the project was to make the area more appealing to the campus community. Furthering this, by selecting priority areas campus-wide, an action plan was also completed to summarize the actions we would like to see done in each of the study areas.

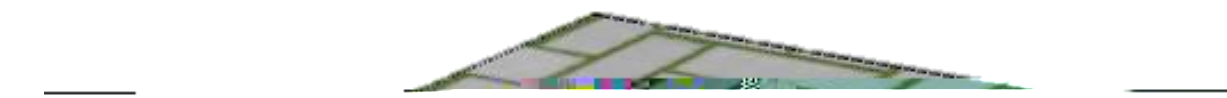
### Purpose

To reduce the environmental impact that the campus has on the local environment.  
To expand upon our research completed last year by replicating our processes and calculations on more locations  
To improve the aesthetics of campus to make a more appealing student environment.  
To gain a better understanding of stormwater runoff and how to effectively manage it.

Our research group addressed the issue of

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### Permeable Paver Parking Lot



### Bioswale

