

Objectives

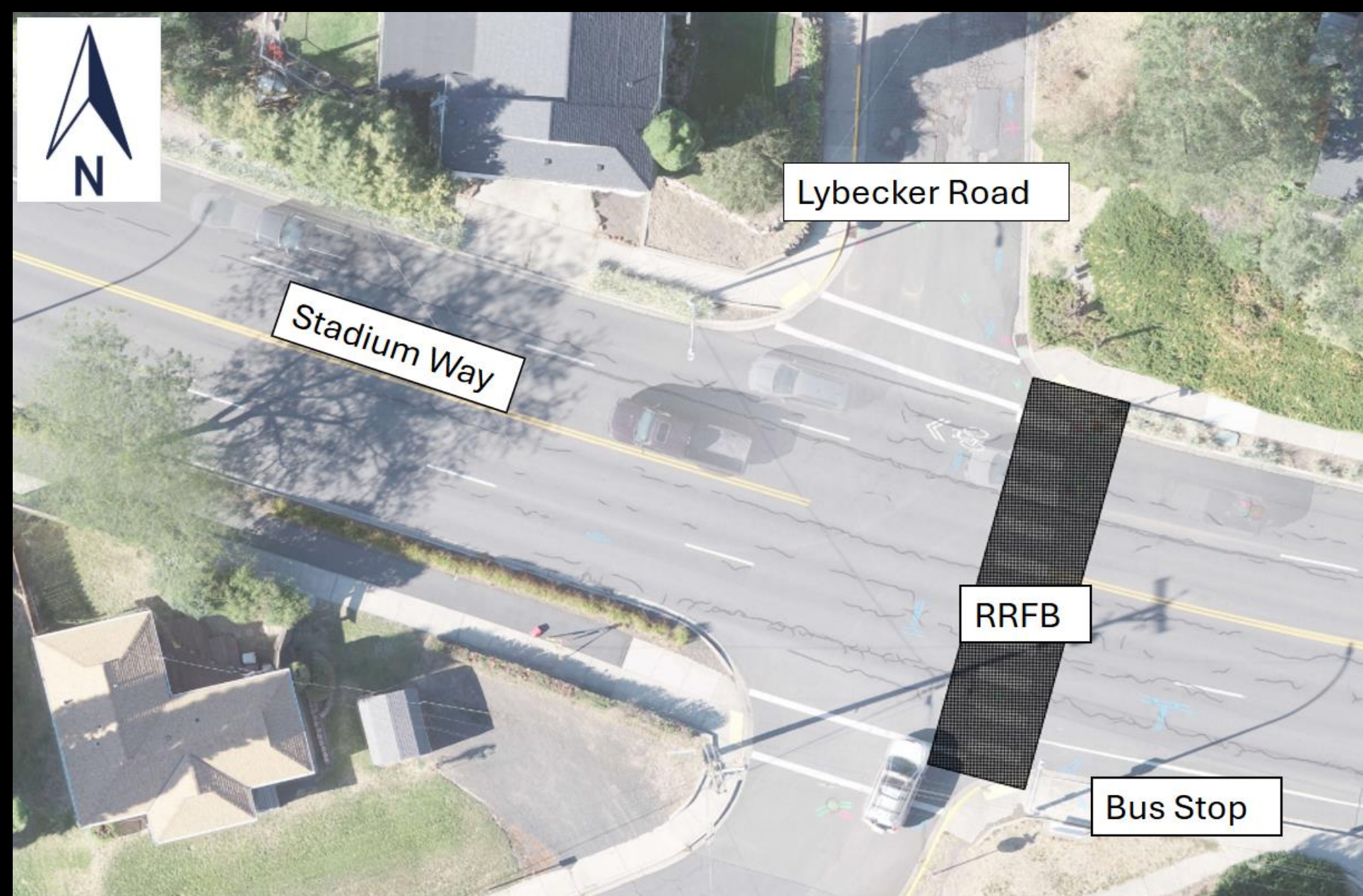
- Create design drawings for reconstructed curb ramps
- Evaluate the placement of RRFBs at the design intersections
- Identify preliminary stormwater system changes due to project implementation
- Estimate reconstruction costs of project

Background

- Located in the City of Pullman, Washington
- The City determined that four intersections needed pedestrian crossing improvements:
 - SW Marcia Drive & Old Wawawai Road
 - SW McKenzie Street & S Grand Avenue
 - NE Lybecker Road & Stadium Way
 - SW Fountain Street & SW Center Street

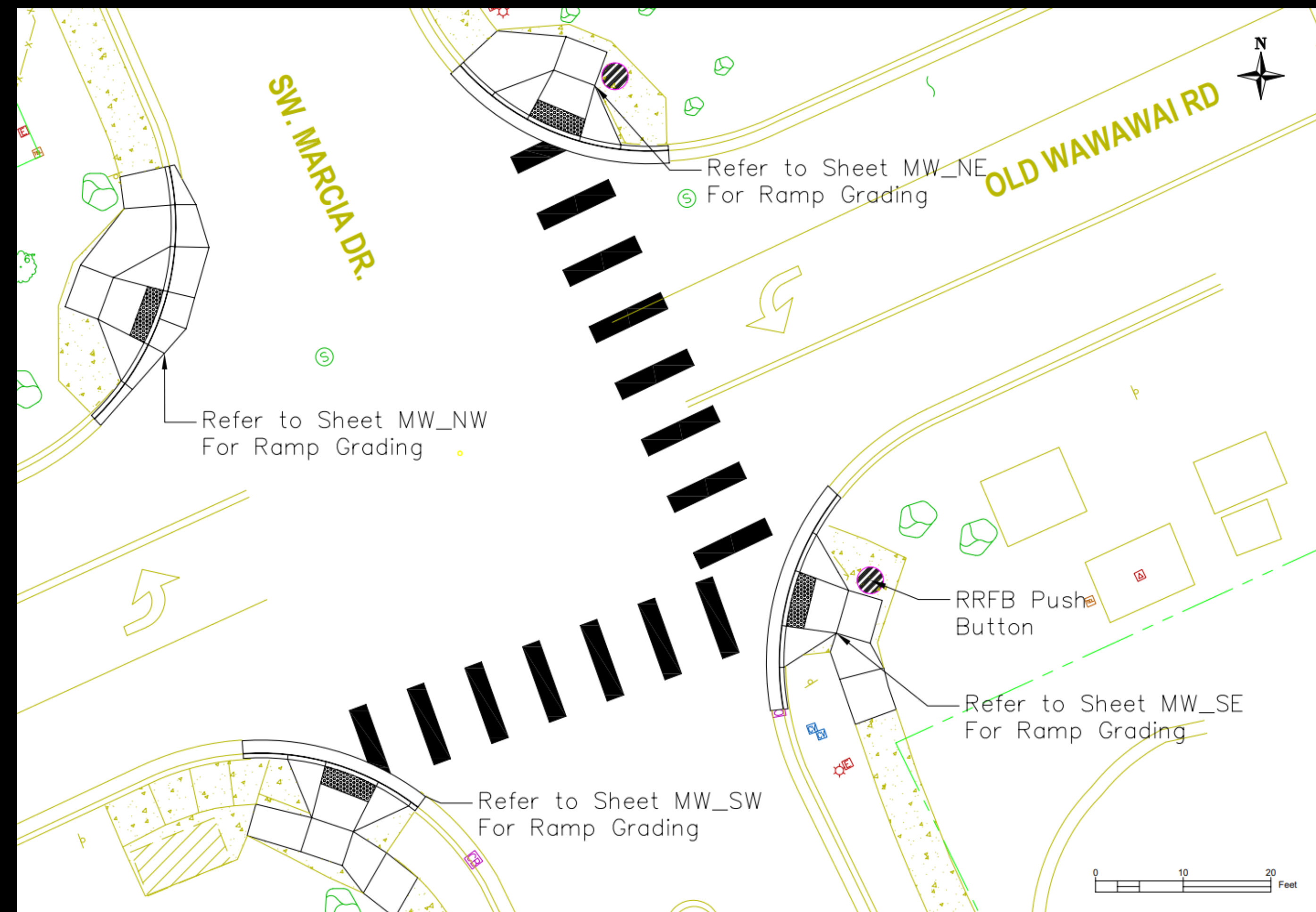


RRFB Placement



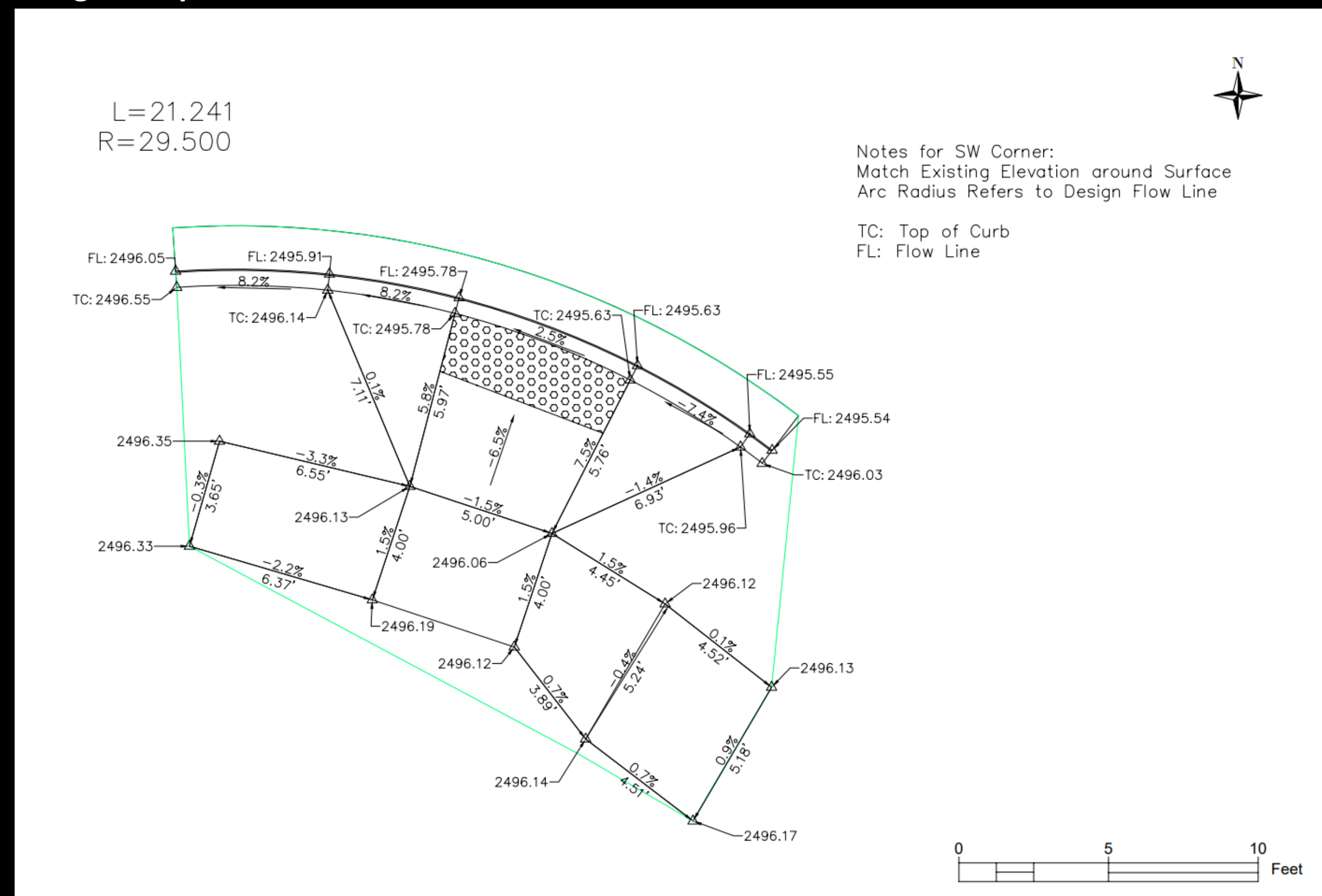
Intersection Layout

- Pictured below is the final intersection layout of SW Marcia Dr & Old Wawawai Rd



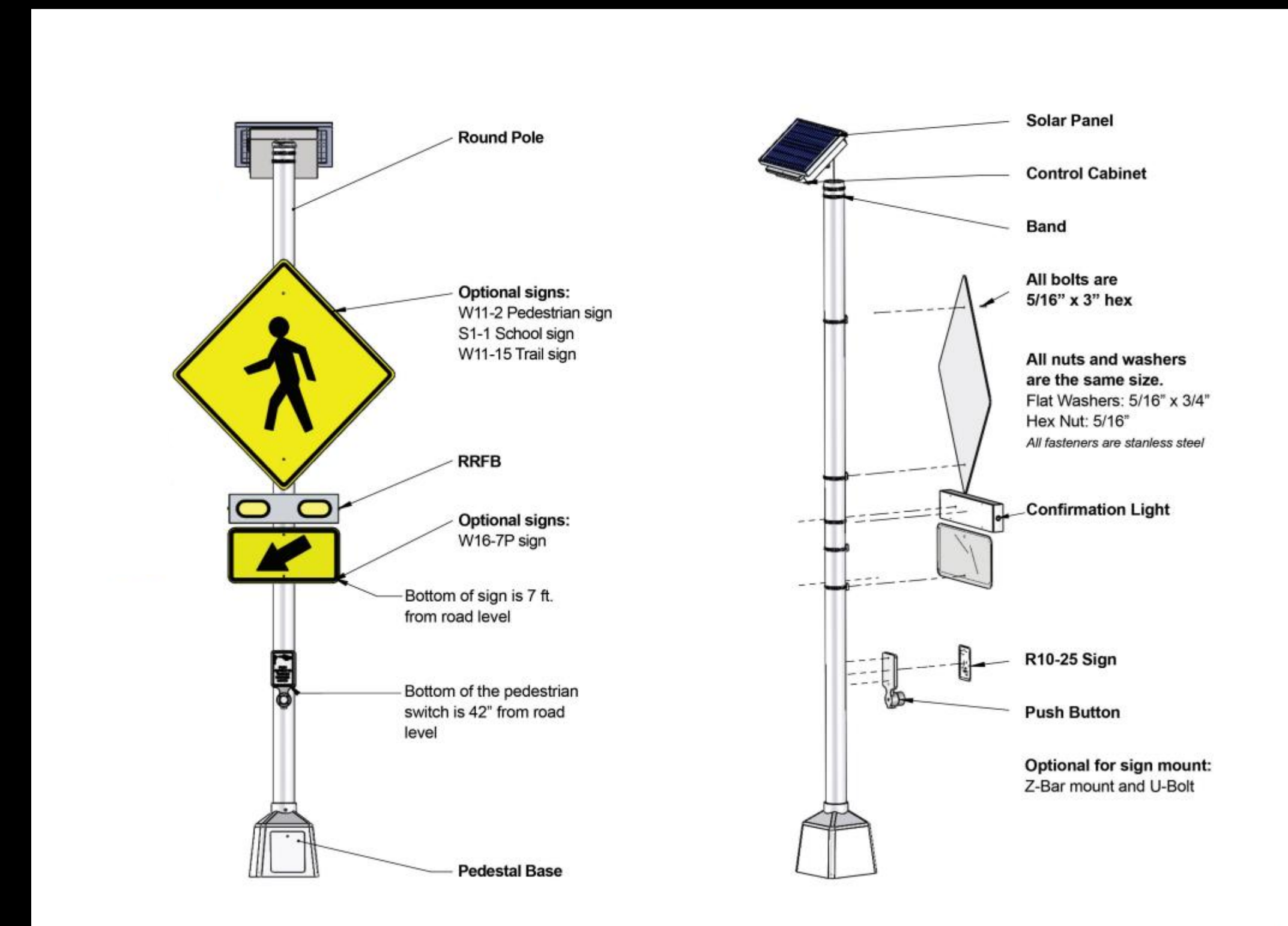
Pedestrian Ramp Design

- Specifications and regulations from WSDOT and City of Pullman Design Standards
- Design completed in Autodesk Civil 3D



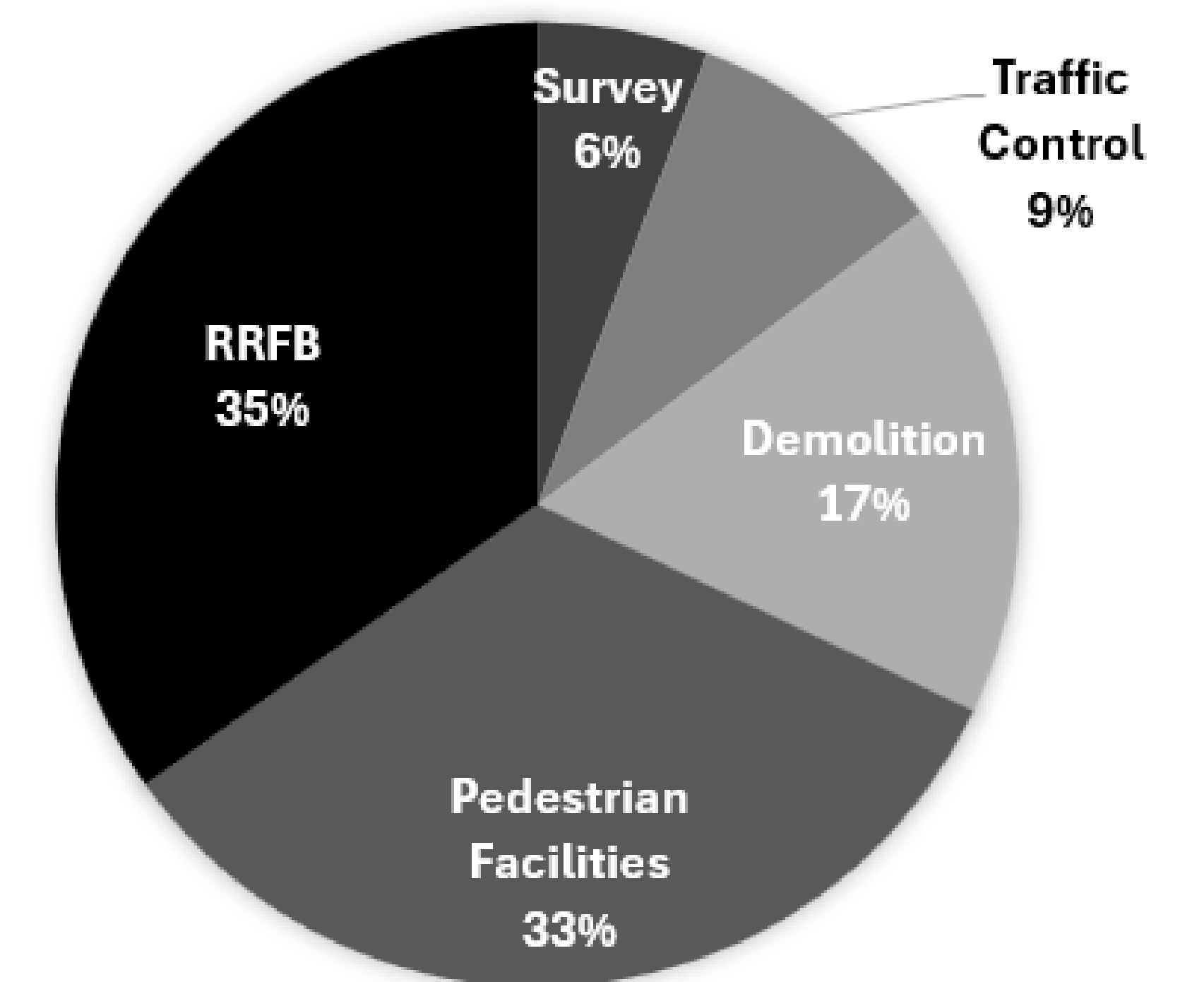
RRFBs

Rectangular Rapid Flashing Beacons



Cost Estimation

COST ESTIMATE PER CATEGORY



Survey	\$22,130	Base Bid Total	\$387,143
Traffic Control	\$34,600	Contingency	10%
Demolition	\$67,287	Final Bid Total	\$426,000
Pedestrian Facilities	\$128,126		
RRFB	\$135,000		