

Pfeiffer Rd & Deerfield Rd Intersection Improvements

HAM-CR284-1.33, ODOT PID 107130

Project Description

The City of Montgomery is proposing to improve the intersection of Deerfield Road and Pfeiffer Road by converting the intersection to a modern, single-lane roundabout. Included with the project will be new curb, storm sewer, lighting, and pedestrian facilities.

See enclosed exhibit for the roundabout concept.

Purpose of the Project

The purpose of this project is to improve traffic flow, improve safety, and improve air quality at the intersection of Deerfield Road and Pfeiffer Road.

Traffic Operations

According to traffic projections, the traffic flow through the intersection is currently performing at unsatisfactory levels during morning and evening rush hours. This condition is expected to continue if no improvements are undertaken. The table below describes the anticipated traffic delays and Level of Service (LOS). Current long-range traffic models predict no traffic growth in this area, so 2043 results are anticipated to match current results.

Intersection Level of Service (LOS) / Average Delay

Rush Hour	Existing Condition (All-Way Stop Control)	Proposed Condition (Single Lane Roundabout)
AM	D/33.3 sec delay	A/8.1 sec delay
PM	F/83.2 sec delay	A/9.9 sec delay

*LOS Key: A = Free flow; B = Stable flow with slight delay; C = Stable flow with acceptable delay; D = Approaching unstable flow; E = Unstable flow; F = Congested with considerable delay



Safety

From 2016 to 2018, 15 crashes were reported at the intersection of Deerfield Road and Pfeiffer Road. Six (40 percent) of the crashes resulted in injuries and nine (60 percent) involved property damage only. The crash locations are indicated in the graphic below with red dots. The most common crash types were rear-end and angle crashes.



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Funding

The City of Montgomery has been awarded Highway Safety Improvement Program grant funds covering 33 percent of engineering and right-of-way acquisition costs. The City has also been awarded construction grant funding through the Congestion Mitigation and Air Quality Improvement (CMAQ) Program covering 60 percent of construction costs.

Environmental Studies

An environmental overview will be prepared for the project to identify key environmental resources and constraints in the study area. Because federal funds are used, the project will need to follow Ohio Department of Transportation procedures in accordance with the National Environmental Policy Act (NEPA).

Right-of-Way

Right-of-way needs and impacts to properties adjacent to the project have been identified and will be refined as the design process moves forward. The City of Montgomery will coordinate with individual property owners regarding the acquisition of new right-of-way required to complete the project.

Anticipated Schedule

- Begin Right-of-Way Acquisition
May 2021
- Design Complete
January 2022
- Right-of-Way Acquisition Complete
December 2021
- Begin Construction
May 2022
- Construction Complete
September 2022

Questions?

Please direct any questions regarding the project to:

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The environmental review, consultation and other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by ODOT pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated June 6, 2018, and executed by FHWA and ODOT.