

ALL – 117 – 9.71
(SR 117 at Kemp Road)
PID 122787

Description

This project consists of constructing a single-lane roundabout at the intersection of SR 117 and Kemp Road in Allen County.

Existing Conditions

- SR 117 runs east-west and Kemp Road runs north-south.
- Both roadways are two-lane, two-way without turn lanes.
- Kemp Road is controlled by a two-way stop. Additionally:
 - Dual stop signs with “*Cross Traffic Does Not Stop*” plaques
 - Dual stop ahead signs
 - Dual intersection warning signs
 - Stop bars on the north and south approaches
- SR 117 is classified as a Rural Major Collector and Kemp Road is classified as a Local Road.

Converting the existing two-way stop-controlled intersection into a roundabout is predicted to be safer and operate more efficiently. The proposed roundabout addresses the frequent angle crash type by lowering approach speeds and realigning the roadway to have more favorable geometry.

Intersection History and Data

Prior work at this intersection includes:

- Stop bar installation, removal of a tree and two signs from the right of way, and utility pole relocation in the southeast quadrant (2004).
- Stop signs were field reviewed to ensure they were the proper height and not blocking the view of oncoming traffic (2019).
- SR 117 was resurfaced under PID 107637 (2022).

This intersection has been discussed several times over the years at District Safety Review Team (DSRT) meetings. A formal safety study was conducted by ODOT District 1 in the fall of 2024.

Crash Statistics (2021-2023)

- 11 total crashes
 - 7 angle
 - 1 backing
 - 1 sideswipe
 - 1 rear end
 - 1 left turn
- 64% injury rate
 - 2 serious injury
 - 5 other injury
 - 4 property damage only

AADT

2024	SR-117	4,822	(4% trucks)
	Kemp Road	774	(2% trucks)
2014	SR-117	4,136	(5% trucks)
	Kemp Road	656	-

Deliverables

Consultant provides:

- Abbreviated Feasibility Study with evaluation matrix
- Preliminary roundabout layouts/alternatives
- Survey
- Right-of-Way Plans
- Construction Plans
- Geotechnical

ODOT District 1 provides:

- Utility Coordination
- Intersection Safety Study
- Public Involvement (press release and website)
- Environmental
- R/W Acquisition

Funding

Funded by ODOT's Highway Safety Improvement Program

- \$750,000 for Design in FY 2025
- \$400,000 for Right of Way in FY 2027
- \$2,700,000 for Construction in FY 2029

Additional Information

- 10% DBE Goal
- Full closure permitted for MOT
- Agreement will be split into two profiles in SAFe
 - Planning through Preliminary Engineering
 - Stage 1 through Final Design

Prequalifications

- Roadway Design (Non-Complex)
- RW Plan Development (Limited & Complex)
- Soils/Geotechnical Services (Geotech Engineering Services / Geotech Testing Laboratory / Geotechnical Field Exploration / Geotechnical Drilling Inspection)
- Highway Lighting Design (Limited)