



## **AGENDA ITEM ANALYSIS**

Project/Issue Name: 22-33 An Ordinance of the City Council Authorizing the Permanent Closure of Farm Road 101 Between State Highway M and the Southernmost Entrance to Old Stone Apartments.

Submitted By: Garrett Brickner, Engineering Manager

Date: May 17, 2022

### **Issue Statement**

This ordinance would authorize City Staff to close a portion of Farm Road 101.

### **Discussion and/or Analysis**

Recently, the City of Republic acquired Farm Road 101 from Greene County in order to pursue this closure. This section of road has no driveway access and is not part of the City's Future thoroughfare plan.

According to the American Association of State Highway and Transportation Officials *A Policy on Geometric Design of Highways and Streets* (AASHTO Green Book) The design Decision Sight Distance for a left turn such as this onto a 55-mph highway is 610 ft. therefore, a driver sitting at this intersection would need to be able to see 610 feet down this road to have the adequate time to make the decision to wait or go. Currently there is only about half that distance.

Average Daily Traffic on Farm Road 101 currently is 243 vehicle trips per day averaging out to ~10 vehicles per hour. The peak VPH occurs from 4pm to 5pm and is ~25 vehicles, with a max recorded of 32. The distribution of vehicles is evenly split between north bound and southbound vehicles. AADWT on Highway M is currently 3652 according to MoDOT data zone, and according to staff projections may more than double in the next 5 years.

There have been 10 incidents at this location since 2012, 2 of which were minor injury. The proposed closure would be minimally impactful to overall traffic flow while increasing network safety.

As development occurs and traffic increases on the main road of M highway, the likelihood of an incident involving this side street continues to increase. It is staff's recommendation that this road be closed

### **Recommended Action**

Staff recommends approval.