



Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: August 15, 2022

Re: Authorized a Cost Share Agreement with the Missouri Highways and Transportation Commission for the Route K and Old Plank Road Intersection Improvement Project.

## Executive Summary

Authorize the City Manager to execute a cost share agreement with the Missouri Highways and Transportation Commission (MHTC) for design and construction of the Route K and Old Plank Road intersection improvement project at an estimated cost of \$1,805,700.

## Discussion

On April 4, 2022, Council adopted Resolution 44-22 authorizing the City Manager to apply to the Missouri Department of Transportation (MoDOT) for the cost share grant for the Route K and Old Plank Road intersection improvement project. On June 22nd, Staff received the notification letter for the approved funding. The grant requires a local 50-percent match of the funding. The City will be the lead on the design and construction of the improvements.

The MoDOT Cost Share Partnership Funding Program provides a public/public partnership to be established in order to jointly complete a transportation project that serves a public purpose. This cost share program allows MoDOT to commit funds to a project for proposed improvements not included in MoDOT's 5-year plan, but which benefits the state system. Old Plank Road is maintained by the City and Route K is maintained by MoDOT, thus making the partnership feasible.

The Route K corridor has experienced quite a lot of growth over the past 10 years. The majority of the growth has been residential, but within the vicinity of this intersection, there has been commercial development, as well. The intersection of Old Plank Road with Route K is particularly complex. At this intersection:

- Route K is on a curve and near the top of a hill;
- Old Plank Road ties into Route K on the north side of the road at about a 30-degree angle and is 85 feet wide at the intersection;
- Vermillion Drive ties into Route K on the south side of the road at approximately 30 feet west of Old Plank Road;
- Maple Meadows Road ties into Route K on the south side of the road approximately 300 feet east Old Plank Road;
- The Little General gas station and the storage facility (on the west side of Old Plank Road) has two driveways onto Route K with the east driveway right next to Old Plank Road and somewhat across from Vermillion Drive;
- The Break Time gas station (on the east side of Old Plank Road, constructed in 2019) has a driveway onto Old Plank Road and a driveway onto Route K;
- The Dollar General Store (constructed in 2021) is approximately 850 feet southwest of the intersection; and



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- Subdivisions in the vicinity of the intersection include Gateway South, New Town, Cedarbrook, Maple Meadows, and Old Plank Estates.

The City is proposing to improve the safety of the Route K corridor at this intersection by constructing a roundabout. The roundabout will slow the speed through the intersection while removing the conflicting turning movements. The proposed roundabout will remove the skewed angle where Old Plank Road ties in with Route K and will line it up with Maple Meadows Drive. In addition, to improve sight distance coming into the west leg of the roundabout, the hill on Route K will be slightly lowered. Also, the west entrance of the Little General gas station will be reconstructed to line up with Vermillion Drive. Finally, a turn-around will be constructed at the end of the existing Old Plank Road in order to maintain access to the three existing properties.

The roundabout is proposed to be a single lane, 150-foot diameter roundabout with sidewalks and splitter islands. The properties directly at the intersection are outside of the city limits. The project has been discussed with Boone County Resource Management and they have verbally given support for the project. Permanent street easements and temporary construction easements will need to be acquired for the construction of the project.

The total project cost, including design, right-of-way acquisition, utility relocation, and construction is estimated at \$1,805,700. In the agreement, MoDOT and the City will each fund 50-percent of the total project cost with MoDOT's share not to exceed \$902,850. The City will fund the 50-percent match using the quarter-cent Capital Improvement Program sales tax.

## Fiscal Impact

Short-Term Impact: The City will fund \$902,850 using the quarter-cent Capital Improvement Program sales tax.

Long-Term Impact: Per the agreement, the roundabout will be maintained by MoDOT.

## Strategic & Comprehensive Plan Impact

### Strategic Plan Impacts:

Primary Impact: Reliable Infrastructure, Secondary Impact: Secondary, Tertiary Impact: Tertiary

### Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Mobility, Connectivity, and Accessibility, Tertiary Impact: Tertiary



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## Legislative History

Date	Action
04/04/2022	R44-22 Authorizing application to the Missouri Department of Transportation for cost share partnership funding for the proposed Route K and Old Plank Road intersection improvement project.

## Suggested Council Action

Authorize the City Manager to execute a cost share agreement with MHTC for design and construction of the Route K and Old Plank Road intersection improvements.