



Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: April 4, 2022

Re: MoDOT Cost Share Partnership Funding Program Application for the Proposed Route K and Old Plan Road Intersection Improvement Project

Executive Summary

Authorizing the City Manager to submit an application for the Missouri Department of Transportation (MoDOT) Cost Share Partnership Funding Program for funding assistance relating to the proposed Route K and Old Plank Road Intersection Improvement Project. The application is due April 18, 2022.

Discussion

The MoDOT Cost Share Partnership Funding Program provides a partnership to jointly complete a transportation project that serves a public purpose. The cost share program allows MoDOT to commit funds to a project for proposed improvements not included in their 5-year Statewide Transportation Program (STIP), but which benefits the state system. Public Works staff has identified improving the Route K and Old Plank Road intersection as a needed improvement project, which is eligible for this funding opportunity. Route K is classified as a major arterial and Old Plank Road is classified as a major collector in the Columbia Area Transportation Study Organization (CATSO) Major Roadway Plan. 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 5-foot 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 purchased for the construction of the project. No significant environmental impacts are anticipated with this project.

The total project cost, including design, right-of-way acquisition, utility relocation, and construction is estimated at \$1,799,700. If Council authorizes the City Manager to apply for the 50/50 funding assistance, staff will submit the cost share application to MoDOT by the deadline of April 18, 2022. The City's share will be funded by the 0.25% capital improvement sales tax.

Fiscal Impact

Short-Term Impact: Funding for the City's half of the cost share is anticipated to be approximately \$899,850 and will be funded by the 0.25% cent capital improvement sales tax. Long-Term Impact: It is anticipated that the roundabout will be maintained by MoDOT and the sidewalks will be maintained by the City.

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
None	None

Suggested Council Action

Authorize the City Manager to submit the application for the MoDOT Cost Share Partnership Funding Program relating to the proposed Route K and Old Plank Road Intersection Improvement Project.