



Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: February 3, 2025

Re: Authorizing a cost share agreement with the Missouri Highways and Transportation Commission for the replacement of the Old Plank Road culvert structure and appropriating the funds.

Executive Summary

Authorizing the City Manager to execute a cost share agreement with the Missouri Highways and Transportation Commission for the Regional Bridge (BRO) Program funding and appropriating the funds. The funding will be for the Old Plank Road culvert structure replacement project. The total project cost estimate is \$237,100. MoDOT will match 80.45% of the cost and the City will match 19.55% of the cost.

Discussion

On November 4, 2024, Council adopted Resolution 190-24 authorizing the City Manager to apply to the Missouri Department of Transportation (MoDOT) for state funding from the Regional Bridge (BRO) Program for removal and construction of a culvert structure on Old Plank Road. The Missouri BRO Program provides funding for bridge replacement of structures that are structurally deficient. The program is administered through MoDOT. On January 8th, Staff received notification for the approved funding.

The cost share funding is for the replacement of a culvert structure on Old Plank Road. The existing structure was constructed in 1986 and consists of three 66" diameter corrugated metal pipes with an asphalt driving surface. It is located just south of the intersection of Forum Boulevard with Old Plank Road and an ephemeral stream runs through the culverts. The size of the three culverts falls under MoDOT's definition of a bridge and therefore, is eligible for the BRO funding.

The culverts are 90% rusted through on the bottom with a loss of bedding material resulting in a serious rating for the pipe condition. The rusted culverts lead to erosion of the pipe bedding; thus, reducing the integrity of the pipes and roadway surface. In addition, with three culverts next to each other, debris can accumulate on the upstream end resulting in slowing down the water flow and placing additional pressure on the pipes. The proposed improvement for the structure will include removing the three existing culverts and replacing them with a single opening arch pipe or box culvert.

The total project cost estimate is \$237,100 and the City's match will be funded with the ¼-cent Capital Improvement Program sales tax. MoDOT will match 80.45% of the cost and the City will match 19.55% of the cost.



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Fiscal Impact

Short-Term Impact: The City's match is anticipated to be \$46,353 for the project and will be funded with the capital improvement program sales tax.

Long-Term Impact: Routine maintenance.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Secondary,

Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Inter-Governmental Cooperation, Tertiary Impact: Not Applicable

Legislative History

Date	Action
11/04/2024	R190-24 Authorizing application to the Missouri Department of Transportation for state funding from the Regional Bridge Program for replacement of the Old Plank Road culvert structure.

Suggested Council Action

Authorize the City Manager to execute a cost share agreement the Missouri Highways and Transportation Commission for the Old Plank Road culvert structure replacement and appropriate the funds.