

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: January 20, 2026

Re: Setting a public hearing for the proposed construction of the Old Plank Road Culvert Project.

Impacted Ward: Ward 5

Executive Summary

Staff has prepared for Council consideration a resolution setting a public hearing for February 16, 2026 for the proposed construction of the Old Plank Road culvert project. An interested parties meeting was held on November 13, 2025. The total project cost estimate for this project (design and construction) is \$620,000.

Discussion

The Old Plank Road culvert project is located along Old Plank Road near Plank Way and Forum Boulevard. The project will include the removal of the three existing corrugated metal culverts and replacing them with a single opening arch structure.

The existing culvert structures, built in 1986, consist of three 66-inch corrugated metal pipes with an asphalt roadway above. In December 2020, a structural inspection determined that the culverts were 90% rusted through the bottom with a loss of bedding material resulting in a poor rating for the pipe condition. In response, the City applied for grant funds through the Missouri Department of Transportation (MoDOT) Regional Bridge Program to replace the structure. The City's application was successful, and the City received \$282,763.10 in grant funds with an assumed \$68,707.90 local match bringing the total project budget to \$351,471.00. The original grant application assumed the three 66" CMP's would be replaced with a single opening box culvert or arch pipe with a similar hydraulic capacity to the existing structure.

Preliminary hydraulic analysis determined the existing structure to be undersized for the drainage area. The originally proposed single opening box culvert would not convey the design storm event without roadway overtopping. Alternatives were evaluated, concluding that replacement with a single opening structure inadequately addresses long term needs.

A 24' x 6' precast arch structure was selected as the replacement design. This configuration provides increased flow capacity and sufficient length to accommodate future needs.

An interested parties meeting was held on November 13, 2025. Ten residents attended the meeting, and one comment was received.

The total project cost estimate is \$620,000. The project is being constructed with funding from MoDOT Regional Bridge (BRO) Program. MoDOT's portion of the funding will be \$282,76.10,

and the City's portion of the cost is expected to be \$337,000, funded by the ¼-cent Capital Improvement Program sales tax.

Fiscal Impact

Short-Term Impact: The City's portion of the project is anticipated to be \$337,000 and will be funded from the ¼ cent Capital Improvement Program (CIP) sales tax.

Long-Term Impact: Routine maintenance.

Strategic & Comprehensive Plan Impact

[Strategic Plan Impacts:](#)

Primary Impact: Reliable and Sustainable Infrastructure, Secondary Impact: Not Applicable, Tertiary Impact: Not Applicable

[Comprehensive Plan Impacts:](#)

Primary Impact: Infrastructure, Secondary Impact: Not applicable, Tertiary Impact: Not Applicable

Legislative History

Date	Action
02/17/2025	B18-25 Authorizing an off-system bridge program agreement with the Missouri Highways and Transportation Commission associated with the Old Plank Road culvert structure replacement project; amending the FY 2025 Annual Budget by appropriating funds.
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

Adopt the resolution setting a public hearing for February 16, 2026 for the proposed construction of the Old Plank Road culvert project.