



Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: July 1, 2019

Re: Public Hearing for the Sinclair Road/Route K/Old Plank Road Intersection Improvement Project

Executive Summary

A public hearing is being held for the proposed construction of the Sinclair Road/Route K/Old Plank Road intersection improvement project. This project includes construction of a single lane roundabout with splitter islands and sidewalk at an estimated cost of \$1,246,375. An Interested Parties (IP) meeting was held on May 9, 2019.

Discussion

This proposed project will improve long term safety at the Route K/Sinclair Road/Old Plank Road intersection with the construction of a roundabout. Currently, the north leg (Sinclair) and the south leg (Old Plank) of the intersection are offset from each other. The improvement will align the two legs plus provide other safety features associated with a roundabout, such as slowing the vehicles through the intersection. The roundabout is sized to accommodate large size vehicles and school busses, and will be lighted. Sidewalks will be constructed along the roundabout and will tie into existing sidewalks adjacent to the project. A water quality cell may be constructed near the southwest corner of the intersection. The location diagram and concept layout of the project are attached.

Extensive street right-of-way already exists at the intersection. When Cascades Subdivision was developed northeast of the intersection in the early 2000s, right-of-way was platted at the northeast corner in anticipation of a future intersection improvement project which would relocate Sinclair to the east in order align with Old Plank Road. The sidewalk at the Cascades Park was also constructed to accommodate the relocation of Sinclair Road. Therefore, permanent street easements should not need to be obtained, but temporary construction easements may be needed for construction of the project.

Residential developments under construction along Route K, Sinclair Road and Old Plank Road, plus the construction of the middle school along Sinclair, are anticipated to increase traffic through this intersection. Columbia Public Schools (CPS) completed a traffic study for the development of their new middle school along Sinclair Road. The traffic study projected the need to add a left turn lane at the intersection due to the increased traffic generated by the school. A performance contract between the City and CPS will allow CPS to contribute \$169,723 towards the cost of the construction of the roundabout instead of constructing the left turn lane. A roundabout, instead of the left turn lane, will provide a better long term solution for the intersection for both safety and vehicle flow.



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In addition to the lump sum funding by CPS, MoDOT has agreed to fund 50%, or a not to exceed amount of \$623,187, through their Cost Share Partnership Funding Program. This program provides a public/public partnership to be established in order to jointly complete a transportation project that serves a public purpose. Sinclair Road and Old Plank Road are maintained by the City, and Route K is maintained by MoDOT, thus making the partnership feasible. The estimated total project cost is \$1,246,375, and includes design, right of way acquisition, utility relocation, and construction. The program requires a local 50% match of the federal funds. CPS will contribute \$169,723 toward that match, and the City of Columbia is responsible for the balance of \$453,465 to be paid from quarter-cent Capital Improvement Program sales tax.

An IP meeting was held on May 9, 2019. Eight residents attended the meeting and 18 comments (attached) were received concerning this project. Cascade residents are concerned with the location of Sinclair Road realignment; therefore, staff looked at alternate locations for the roadway, but due to wetland impacts and the proximity of the existing Sinclair roadway with the sidewalk north of the project, it was determined that an alternate alignment is not feasible.

Burns & McDonnell, the engineering consultant for this project, is in the process of completing the design of the roundabout. Construction is planned for the spring of 2020. Temporary closures and detours will likely be required during construction.

Fiscal Impact

Short-Term Impact: The total estimated project cost is \$1,246,375. MoDOT's 50% share, or not to exceed amount of \$623,187, and CPS lump sum payment of \$169,723, were appropriated to the project on July 16, 2018 per Council Bill 155-18. The City will be responsible for \$453,465 to be paid from 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: Infrastructure, Secondary Impact: Secondary, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

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

Legislative History

Date	Action
06/03/2019	R80-19-Setting a public hearing: proposed construction of a single-lane roundabout with splitter islands and sidewalk at the intersections of Sinclair Road, Route K and Old Plank Road.



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10/15/2018	R159-18 Authorizing professional engineering services agreement with Burns & McDonnell Engineering Company, Inc. for design and limited construction administration services of the Sinclair Road/Route K/Old Plank Road roundabout improvement project.
07/16/2018	B155-18-Authorizing a cost share agreement with MHTC for the proposed Sinclair Road/Route K/Old Plank Road intersection improvement project; appropriating funds.
07/16/2018	B154-18-Approving the Final Plat of CPS Middle School Subdivision, a major subdivision; accepting the dedication of rights-of-way and easements; authorizing a performance contract.
12/18/2017	R181-17-Authorizing application to the Missouri Department of Transportation for cost share partnership funding for the proposed Sinclair Road/Route K/Old Plank Road intersection improvement project.

Suggested Council Action

After public comment and Council discussion, direct staff to proceed with final plans and specifications for construction of the Sinclair Road/Route K/Old Plank Road intersection improvement project.