



REPORT TO: CC

MEETING DATE: JULY 8, 2019

Agenda Item:	8h. CC-19-98
Prior Council Action/Related Items: (Hyperlinks Or PDF)	
Background / Issue:	<p>The 26th Avenue bridge over Stream C between Walnut and Washington Streets was constructed in June/July of 1982. The structure consists of five eight foot diameter corrugated metal pipes. Approximately five years ago, repairs to the invert of the pipes were made.</p> <p>Since the May flooding, the bridge has been closed. An inspection of the structure after the flood water receded from the surface indicated some damage to the structure. A full evaluation could not be conducted until the flow in the creek had substantially subsided and the pavement surface removed. Staff, along with ODOT's bridge inspection firm, completed the initial inspections. In at least one location, water has begun to flow around the pipes and has begun eroding away the support soil materials between the pipes. Determining any other locations will require further investigation. Typically, loss of material between pipes continues until there is a catastrophic failure of the bridge.</p> <p>Based on the initial inspections, the estimated cost of the known repairs, replacement of the surface, and repairs to the headwall structures is over \$110,000. This would only get the road back to an operable condition and would not extend the life of the facility for any foreseeable time. These repairs would be to a 37 year old structure that has been previously repaired.</p> <p>In looking at options, Transportation and Planning staff evaluated the area to determine what transportation improvements are expected with anticipated growth to the year 2040. Growth projections for the area indicate a two lane roadway is adequate for the foreseeable future.</p>

	<p>Based on the needs projection, two options were evaluated:</p> <ol style="list-style-type: none"> 1. Replace the bridge in a similar manner using aluminized pipe culverts; 2. Replace the bridge utilizing a multi-span reinforced box culvert that extends the life of the facility. <p>Each option increases the length of the structure to allow for a future 10' active transportation path with separation from the driving surface. The estimates for each option range from \$350,000 to \$650,000.</p> <p>With either option, both survey and design services are needed and will be performed by Keystone Engineering for surveying per the master services agreement and Gose & Associates for the necessary hydrologic and hydraulic studies, design assistance, and drafting. Gose and Associates has previously been short listed for this type of work.</p>
Proposal/Solution:	<ol style="list-style-type: none"> 1. Replace the structure utilizing new pipes and increase the length to allow for a future active transportation path for an estimated cost of \$350,000 and engage Keystone Engineering and Gose & Associates for survey and design services. 2. Replace the structure utilizing reinforced concrete box culvert and increase the length to allow for a future active transportation path for an estimated cost of \$650,000 and engage Keystone Engineering and Gose & Associates for survey and design services. 3. Continue the investigation and determine exactly what repairs are needed and at what cost. This options keeps the road closed indefinitely.
Financial Impact/Funding Source(s):	<p>There are sufficient funds in the transportation reserve budget for unforeseen projects to cover the cost of either option.</p>
Related Strategic Priority:	<p>#3 Safe Community: To identify effective services that enhance relationships, responsiveness, and quality customer service to promote a safe and secure community.</p> <p>#4 Place & Mobility: to develop a strong sense of place that recognizes the interconnectedness of people, buildings and public systems that best serve the needs of the public.</p>
Recommended Action/Motion:	<p>Staff recommends option 1: Replace the structure utilizing new pipes and increase the length to allow for a future active transportation path for an estimated cost of \$350,000 and engage Keystone Engineering and Gose & Associates for survey and design services.</p>

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Attachment(s): None