



Staff Report

September 3rd, 2024, Council Workshop and Regular Meeting

\$154,894.60 Endicott Street Culvert Rehabilitation Bid Award to Iron Horse, LLC with up to 10% Change Order Authorization (Submitted by Will Noonan, Public Works Operations Manager)

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BACKGROUND: In 2022, a sink hole opened up on Endicott Street near the intersection with Pac Rim Drive. Crews repaired the street and looked for the reason the sink hole developed. Upon TV inspection of the 42 inch corrugated metal culvert under Endicott, it was found the bottom had deteriorated to failure and the structural integrity of the culvert was compromised. This needs to be addressed to avoid future failure.

SUMMARY: The most cost effective and least impactful way of repairing this culvert and restoring its structural integrity is through a process called Cured-in-Place Pipe (CIPP). CIPP is a trenchless method of rehabilitating a pipe or culvert. A flexible liner is inserted into the culvert, inflated with air and exposed to heat or ultraviolet light to dry and harden as a liner inside the pipe. There will be two sections of this culvert to receive the CIPP with access through manhole on the east side of Endicott, off the street. Through the competitive bid process Iron Horse LLC has submitted the lowest responsive bid for this project.

Figure 1. Sinkhole under Endicott St.



Figure 2. Illustration of before and after CIPP



BENEFITS TO THE COMMUNITY: This repair will restore the structural integrity of the culvert with minimal impact to the surrounding houses and cost less than the tradition method of digging up the street to replace the two failed sections of culvert.

BUDGET IMPACT: This item will be paid for by the Stormwater Utility. The total cost is \$154,894.60.

RECOMMENDATION: This item is also on tonight's Council Regular Meeting Agenda for Council's Consideration.