

Legislation Text

File #: BILL NO. 17-137, **Version:** 1

AN ORDINANCE APPROVING CHANGE ORDER #1 - WITH PCI ROADS, LLC FOR THE BRIDGE MAINTENANCE FY17 PROJECT, AN INCREASE OF \$105,089.40 AND AN ADDITIONAL 43 CALENDAR DAYS FOR A REVISED CONTRACT PRICE OF \$448,417.05 AND 103 CALENDAR DAYS TO REACH SUBSTANTIAL COMPLETION.

Issue/Request:

AN ORDINANCE APPROVING CHANGE ORDER #1 - WITH PCI ROADS, LLC FOR THE BRIDGE MAINTENANCE FY17 PROJECT, AN INCREASE OF \$105,089.40 AND AN ADDITIONAL 43 CALENDAR DAYS FOR A REVISED CONTRACT PRICE OF \$448,417.05 AND 103 CALENDAR DAYS TO REACH SUBSTANTIAL COMPLETION

Key Issues:

- Removal of the concrete overlay exposed the extent of needed repair.
- Excessive quantity caused a reconsideration of the material type being used for the concrete patches.
- Extent of work being performed and the change in material type necessitate additional time being added to the contract

Proposed City Council Motion:

FIRST MOTION: I move for a second reading of AN ORDINANCE APPROVING CHANGE ORDER #1 - WITH PCI ROADS, LLC FOR THE BRIDGE MAINTENANCE FY17 PROJECT, AN INCREASE OF \$105,089.40 AND AN ADDITIONAL 43 CALENDAR DAYS FOR A REVISED CONTRACT PRICE OF \$448,417.05 AND 103 CALENDAR DAYS TO REACH SUBSTANTIAL COMPLETION

SECOND MOTION: I move for adoption of AN ORDINANCE APPROVING CHANGE ORDER #1 - WITH PCI ROADS, LLC FOR THE BRIDGE MAINTENANCE FY17 PROJECT, AN INCREASE OF \$105,089.40 AND AN ADDITIONAL 43 CALENDAR DAYS FOR A REVISED CONTRACT PRICE OF \$448,417.05 AND 103 CALENDAR DAYS TO REACH SUBSTANTIAL COMPLETION

Background:

In 1991, the existing Main Street Bridge over Second Street received a 2 inch concrete overlay. In recent years, the concrete overlay began to indicate signs of failure. For this reason, it was decided to remove the existing 2 inch concrete overlay, repair any damage to the underlying structure and replace the 2 inch concrete overlay. Based on visual inspections of the underside of the deck, as well as the condition of the concrete overlay, it

was anticipated that the underlying bridge deck would require little repair. For bidding purposes, it was estimated that 10 percent of the underlying structure would need repairs. Following removal of the concrete overlay, it was discovered that nearly 100 % of the underlying structure had become saturated and is in need of repair.

Public Works Staff recommends an expedited change order to increase the amount of deck repair work on the Main Street Bridge over 2nd Street. This amount exceeds 5% of the contract value of \$334,000, thus a change order requires approval by Council. Following the normal change order process would require a work stoppage, and could impact Oktoberfest. The cause for the change order is removal of the existing concrete overlay exposed much larger area of deteriorated bridge deck that needs to be replaced. The project is funded from the permanent, ½-cent Transportation Sales Tax. There are sufficient funds for all options.

For this change order process, Staff has issued a Work Change Directive ordering the contractor to proceed with Option C, and then follow up the Directive with Change Order.

3 Options for construction were evaluated:

- (A) limit deck repairs to a smaller quantity,
- (B) Increase the project cost by \$225,000 using the polymer concrete in the bid, or
- (C) Change the concrete material, increase time, and increase cost by about \$106,000.

Option A is not recommended because it would not extend the life of the bridge. Options B and C will provide the same quality of product and expected service life. Option B will expedite concrete curing using an epoxy-polymer-concrete, but at a much higher cost. Option C will add about 4 to 6 weeks to allow for the 28-day cure time required for standard concrete.

Option C is recommended because of the cost savings outweighs the extended time required, and a similar service life will be achieved. Essentially, we are proposing to trade extended time for saving money, and achieve similar quality of work.

Presenter: Michael Anderson, Construction Manager

Recommendation: Staff recommends approval of an Ordinance approving Change Order #1 - with PCi Roads, LLC for the Bridge Maintenance FY17 project, an increase of \$105,089.40 and an additional 43 calendar days for a revised contract price of \$448,417.05 and 103 calendar days to reach substantial completion.