

“Placerville, a Unique Historical Past Forging into a Golden Future “



City Manager’s Report
March 22, 2016 City Council Meeting
Prepared By: Rebecca Neves, City Engineer

Item#: 12.1

Subject: Approve a revision of the preferred material selection to the stamped and colored crosswalk to asphalt with *Traffic Patterns XD* as part of the Central Main Street Rehabilitation Project (CIP #414124).

Background:

At its regularly scheduled meeting on May 12, 2015, the City Council approved the preferred selection of aesthetic features and materials for the Central Main Street Rehabilitation Project (CIP #414124). Among the preferred selections were the selected patterns, colors, and material for the pedestrian crosswalks, which was designated as 45 degree Ashlar Slate pattern, Brick Red, and concrete respectively.

Discussion:

Since Council’s approval of the construction contract for Phase 2 to George Reed, Inc. at its regularly scheduled meeting on August 11, 2016, City staff and REY Engineers, Inc., serving as the construction management consultant on the project, have been working with the contractor regarding sequencing and scheduling of construction. An item of concern expressed was with regards to pouring and placement of the stamped and colored concrete crosswalks. In order to pour the crosswalks and allow them to cure properly without damage to the color or pattern, it would require extensive bridging with trench plates and potentially limiting traffic to one lane at those locations for duration of up to three days. Furthermore, there is no guarantee that the finished product would not experience some sort of damage due to bowing of the trench plates as they experience heavy loading from the delivery trucks that frequently drive on Main Street. This option would also lend itself to having more cold joints in the crosswalk than aesthetically preferred. The other “option” to pour the concrete crosswalks was to shut down Main Street for 3 days, which was immediately rejected by City staff.

The contractor proposed another option that included substituting the material only for the crosswalks from concrete to asphalt with the use of *Traffic Patterns XD* that still utilizes the approved chosen pattern and color for the crosswalks. This product utilizes a thermoplastic material that incorporates aggregate into the surface to provided extended wear resistance. The material is delivered in the desired color sheets where it is positioned, heated, and then stamped into the asphalt. The process would allow all the crosswalks to be stamped one night’s work and allow Main Street to be reopened to full traffic at the end of that shift the following morning. Furthermore, the exchange of material from concrete to asphalt has long term maintenance benefits as well. If in the future utility excavations within the street at the crosswalks are needed, the asphalt material could be easily saw cut, removed, and repaved with a matched patch repair of the *Traffic Patterns XD* product (approximately \$30/SF to repair). Additionally, when pavement rehabilitation of Main Street is needed again many years in the future, it will be easier

to grind and overlay with asphalt crosswalks rather than to jack hammer and remove concrete separately prior to grinding operations.

Should the Council approve the requested change in the preferred material selected from concrete to asphalt, staff will return to the Council at a future date to consider the contract change order.

Budget Impacts:

Per Attachment 2: Contract Change Order Request No. 1, changing the material from concrete to asphalt with *Traffic Patterns XD* would result in an estimated credit of \$22,213.50 to the Phase 2 construction contract for Central Main Street Rehabilitation Project with George Reed, Inc.

Options:

1. Approve the material revision as recommended by staff.
2. Direct staff to keep the existing material of concrete.

Recommendation:

Approve a revision of the preferred material selection to the stamped and colored crosswalk to asphalt with *Traffic Patterns XD* as part of the Central Main Street Rehabilitation Project (CIP #414124).



Rebecca Neves, City Engineer



Pierre Rivas, Development Services Director



M. Cleve Morris, City Manager

Attachment:

Contract Change Order Request No. 1