

## Finance Department

To: Public Works Commission  
From: Mark Stevens  
Date: August 22, 2024  
Subject: Fire Station Pavement

### Background

Some alternate decisions were postponed on the fire station construction project until the unknowns of unsuitable soils and dewatering were completed. Even with a large season of rain, there was little required to be spent on dewatering. Unfortunately, the existing ground was not usable and an additional \$156,653 has been spent beyond the allowances within contract. There is a projection of \$20,000 remaining for this work.

The initial contingency of \$880,000 has been reduced to \$619,757 at this point. There are two remaining alternate decisions with large financial impacts:

- |  |                    |
|--|--------------------|
| ▪ Replace asphalt pavement with concrete | \$287,668          |
| ▪ Erect storage building                 | \$215,360 estimate |

### Budget Goal

3. Invests in the assessment, strategic planning and maintenance of our city buildings

### Financial Impact

This expenditure is within the project's planned contingency.

### Recommendation

The key advantage of concrete over asphalt is durability and longevity. Concrete surfaces tend to last longer, with a service life of 30-40 years (compared to 15 years for asphalt). They can withstand heavy loads without significant deformation. With apparatus weighing upwards of 20+ tons, the low speed turning of the wheels will create divots/grooves and possible cracking. These trucks also have a regen process that is completed outside of the station that produces a discharge of heat from the exhausts. A concrete surface will require less maintenance, leading to a lower cost over its lifespan. Concrete paving provides a more comfortable working environment during hot weather conditions.

