



## ITEM REPORT UTILITIES COMMISSION

Agenda Date: 6/5/2024  
Agenda Section: Information Only

**Department Origination:** Public Works

**Agenda Item:** 2024 Crack Sealing Review

**Approval Required:** No Action Required

### **BACKGROUND**

As discussed at the April 3, 2024, Utilities Commission meeting when the Crack Sealing Contract was presented, staff wanted to provide a review for the Crack Sealing Contract in 2024. Below is information from the Streets and Utilities Supervisor:

Prior to sending out the seal coating quotation the Street and Utility Supervisor reviewed the map for roads to be crack sealed. Road segments that were scheduled to have FDR projects in 2024, 2025, and 2026 were removed from the project scope. Public Works staff reviewed the map multiple times before it was sent out for quotes. During the project, staff worked with Astech to prioritize road segments in the event the budget would have been an issue, luckily that did not happen this year.

City Streets staff conducted a crack count on the roads proposed to be sealed in 2024 and found roughly 305,000 existing cracks that have been sealed in previous years, it is tough to identify new cracks while driving. The formula to determine how many cracks will need sealed based on data from previous years is roughly 30 to 50 percent. With that formula in mind, we were projected to stay within the 2024 budget. With the past two year's budget issues staff did plan for some contingencies with usage of dollars from the sand/salt line of the streets budget in the event it was needed, crack sealing is a fast-moving operation and there would not be time to seek council approval without paying additional mobilization fees.

With the previous year's crack sealing projects being overbudget, staff made some operational changes this year. City staff met prior to this year's project with the vendor and laid out how we wanted things to operate with the contractor communications, staff check in with the contractor, and amount of material used each day.

When the contractor arrived in town, the Street and Utility Supervisor met with the foreman along with the Streets Lead Worker to lay out a communication plan. Street's staff also checked in with the crew often through the day when they were working. Based on staff's evaluation and previous years observations, the contractor did a great job with traffic management using signage, pilot cars, and flaggers.

In summary, total linear footage of cracks sealed.

Route and Seal	22.905 LF
Blow and go	<u>151,792 LF</u>
<b>Total</b>	<b>174,697 LF</b>

Included with this RCA is a map showing the roads that were "route and seal" verse "blow and go". The route and seal roads have been constructed within the last 10 years and have included type C oil and the current typical road sections.

Total pounds of material were 56,586 pounds used. This gave us an average of 3.09 feet of crack that was sealed per pound of material or 0.324 pounds of material per linear foot. The City purchased and provided the contractor

with material. The City purchased some of the crack sealing material in 2023 and some in 2024, the material purchased in 2024 was \$0.748 per pound. **Using this information, the cost per linear foot of crack sealing in 2024 was a little over \$0.82 per linear foot.**

This data will be used for future planning and ordering of materials. Attached is a copy of the spreadsheet we used to keep track of all aspects of this year’s project.

Astech Corporation 2024 Crack Sealing Tracking Spreadsheet					
Date	Route & Seal	Blow & Go	Unit Price Cost	Amount Earned	Pounds of Material Used
5/6/2024	2,598	24,036	\$0.58	\$15,447.72	24,036
5/7/2024	535	4,831	\$0.58	\$3,112.28	2,700
5/8/2024	9,002	29,595	\$0.58	\$22,386.26	8,400
5/9/2024	2,183	4,967	\$0.58	\$4,147.00	4,200
5/13/2024	8,016	22,294	\$0.58	\$17,579.80	6,300
5/14/2024	5,711	22,171	\$0.58	\$16,171.56	5,100
5/15/2024		27,318	\$0.58	\$15,844.44	3,900
5/20/2024		16,580	\$0.58	\$9,616.40	1,950
		Total to Date		\$104,305.46	

**Approved Project Quantities & Cost Per 4/16/24 Council Approval**

Estimated	-	170,041	\$0.58	\$98,623.78	Estimated Budget According to Crack Count
Maximum budget		305,900		\$177,422.00	Maximum Budget Utilizing \$20,000 from Sand and Salt Line Item

\*\*\* Maximum Linear  
footage of crack  
sealing for  
Maximum Budget =  
305,900

**FINANCIAL IMPLICATIONS**

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**STAFF RECOMMENDATIONS**

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**COUNCIL ACTION REQUESTED**

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