



## CITY OF WASHINGTON, ILLINOIS

### City Council Consent Agenda Communication

**Meeting Date:** July 18, 2022

**Prepared By:** Dennis Carr – City Engineer

**Agenda Item:** Shellbark and Pinetree Pavement Rehab

**Explanation:** The condition of Shellbark is beyond that with which a chip seal and fog coat is a suitable maintenance procedure. Due to its condition, staff had budgeted \$210,000 to perform an overlay of Shellbark. With only a handful of residents using Shellbark, staff has been looking at other potential rehabilitation methods to help reduce the cost. Donelson Construction Company out of Missouri performs a new paving process called Pressure Paving. It is similar to a combination of slurry sealing and microsurface overlay. They have estimated a cost of just over \$274,000 to rehab both Shellbark and Pinetree. The pressure paving process has shown a life expectancy of around 10-12 years.

Donelson has a contract to perform some work in Springfield in late July or early August and has informed me that they would be willing to mobilize to the area to perform the two-road rehabilitation as a demo project at the estimated cost of \$274,218.41. I had asked about Shellbark alone being the demo, but there was not enough quantity for Donelson to justify the trip.

**Cost Comparison:**

The estimated cost to 2" mill and overlay is around \$25 per sq. yd. The unit cost to pressure pave per sq. yd. is \$10.25. The condition of Shellbark and Pinetree warrants some additional work in areas where no pavement remains at a cost of roughly \$74,500. The cost to chip seal and fog coat is around \$6 per sq. yd. but cannot be done on roads as deteriorated as these.

Removing the milling would reduce a mill and overlay by \$5 per sq. yd., but this would raise the road at each driveway by 2", which would require additional work that would reduce some of the savings from not milling.

**Fiscal Impact:** Staff budgeted \$210,000 for the Shellbark paving. The Parr Hue project came in \$21,000 under budget because City staff self-performed the work. The N. Cummings overlay is slated to come in \$25,000 under budget. Staff will be self-performing some crack sealing work in the fall, which will reduce the crack sealing budget amount by over \$20,000. These reductions will make up the shortcomings of the budgeted line item.

**Recommendation Summary:** Staff recommends approval of the Estimate for Donelson Construction Company to install a Modified Aggregate Quick Set Surface and PressurePave System on Shellbark and Pinetree for an estimated cost of \$274,218.41.



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## ESTIMATE

April 4, 2022

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Donelson Construction Co., LLC is pleased to provide the following quote for the installation of our patented Modified Aggregate Quick Set (MAQS®) Surfacing and PressurePave® Systems. The prices include all labor equipment, materials and traffic control.

The unit prices for the separate materials are as follows (per yd2):

MAQS-PressurePave®-	\$1.38
MAQS®-2 Scratch	\$8.87
MAQS®-2	\$8.87

<b>Pine Tree Dr</b>	<b>From:</b>	Foster Rd	<b>To:</b>	Mansion Rd	<b>Yd2:</b>	10,067
MAQS-PressurePave®-				\$13,892.46		
MAQS®-2 Scratch				\$16,152.27	Scratch yd2:	1,821
MAQS®-2				\$89,294.29		
<b>Total</b>				<b>\$119,339.02</b>		

<b>Shellback Ct</b>	<b>From:</b>	Pine Tree Dr	<b>To:</b>	south to end	<b>Yd2:</b>	9,423
MAQS-PressurePave®-				\$13,003.74		
MAQS®-2 Scratch				\$58,293.64	Scratch yd2:	6,572
MAQS®-2				\$83,582.01		
<b>Total</b>				<b>\$154,879.39</b>		

**GRAND TOTAL: \$274,218.41**