



CITY OF WASHINGTON, ILLINOIS

Public Works Committee Agenda Communication

Meeting Date: July 5, 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 the Public Works Committee move the approval of a sole source quote (estimated at \$274,218.41) to perform a new pavement rehabilitation process as a demo project to the July 18th Council meeting for approval. These two roads have low traffic and would make for nice demo roads that we can assess to identify if this process would be beneficial moving forward. At a minimum, they improve these roads to a point where we can get them back in the chip and seal cycle without having to repave.