

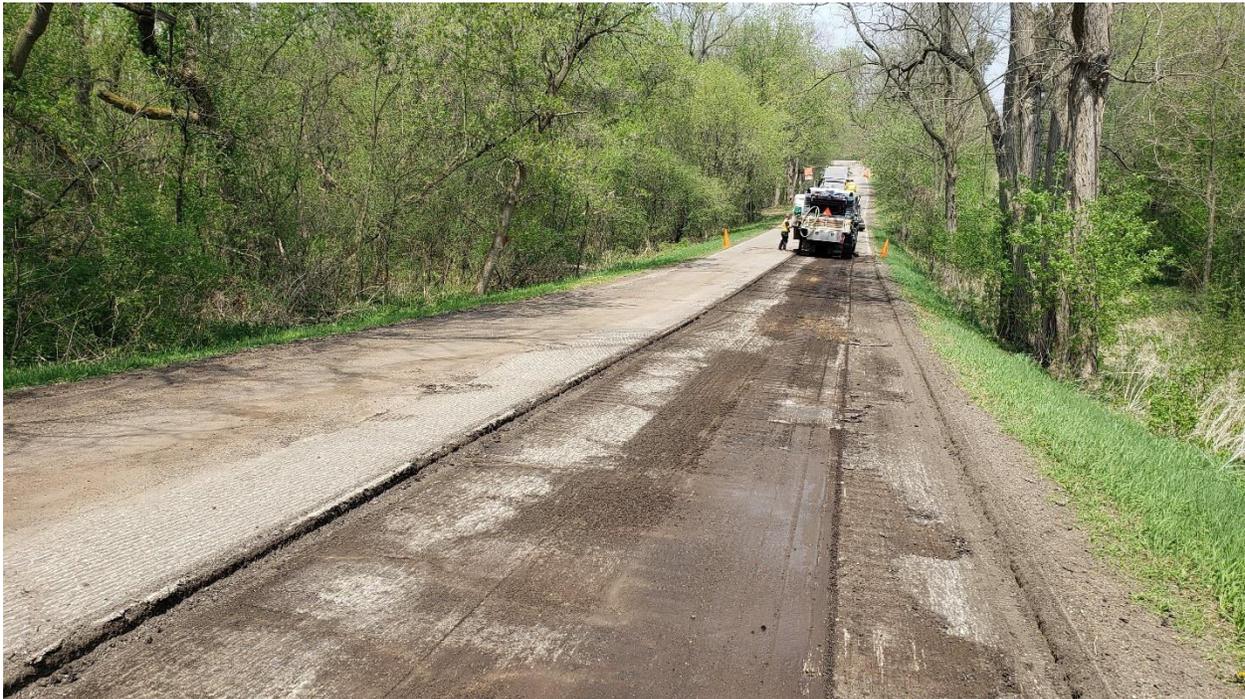
## Town of East Troy 2022 Road Program Base Patching Summary:

Pursuant to providing longevity for the overlay project, we evaluated multiple areas of unstable pavement that needed to be corrected. If this work was not performed, the pavement would have deteriorated in a rapid fashion as asphalt being a great wear surface, it is only as strong as the base it is placed on. Existing cracks in the lower layer will reflect through to the surface in time and therefore we addressed the most distressed areas to provide a longer life cycle of the surface pavement being placed.

This process started with evaluating the worst areas for correction. Here was a typical area where base pavement correction was required.



The correction process starts with utilizing a pavement milling machine in which we extracted 4" of the compromised pavement and exported from site.



The base stone is then recompact and 4" of HMA binder is placed to match the existing pavement elevation ready for resurfacing as shown here. This work was performed with a special mobilization the day before to allow for the binder patching to cool and cure overnight.



Unfortunately, there was another area that didn't look distressed until the loaded trucks drove over it which caused an emergency repair to be performed in order to keep paving as shown here.



It was found that there was only 3” of aggregate base below this pavement and then 3’ of extremely soft silty clay. This excavation was performed by the Town DPW forces. Stark Pavement assisted with placing and compacting the base stone and installation of a thick binder base patch to bridge the soft material. To make things more difficult, there was a high-pressure gas main running directly in the middle of the patch.



Upon completion of the binder base patching, the roads were paved, shouldered, and striped as anticipated with the final results shown here.

