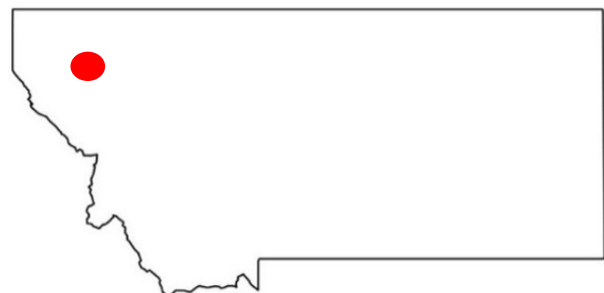
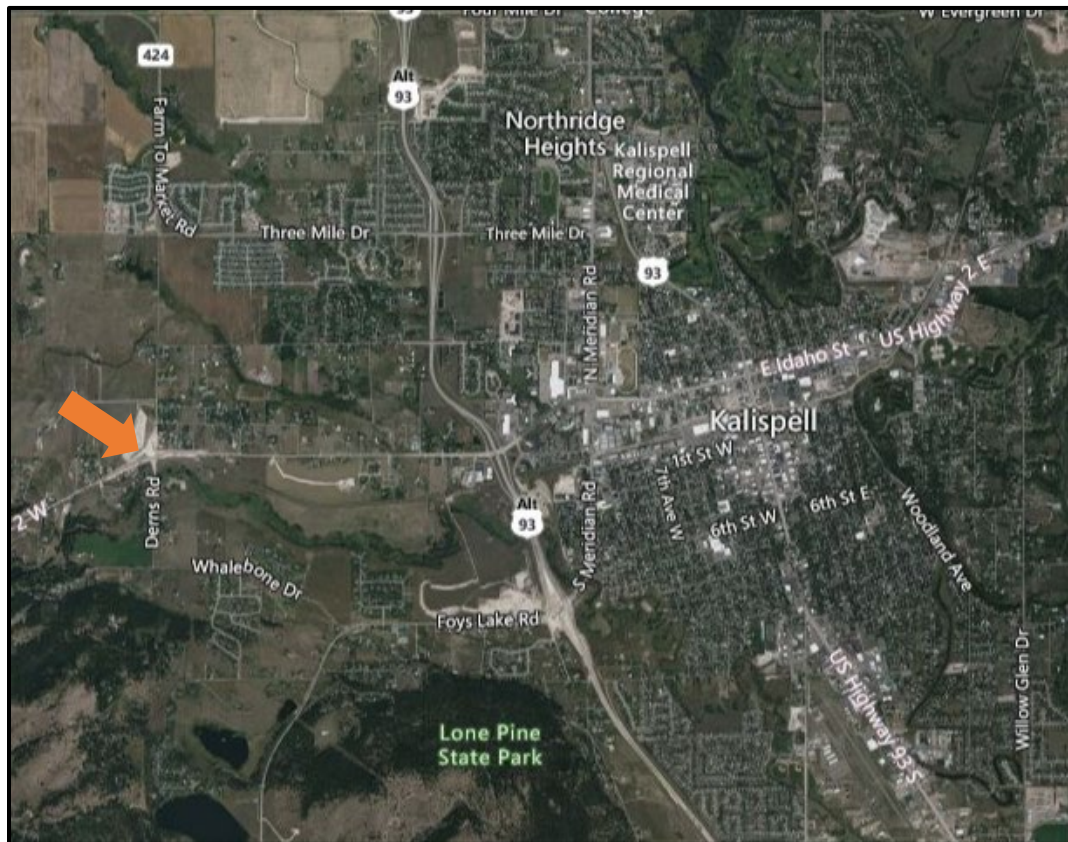


**Experimental Feature Work Plan
 September 2021**

Experimental Feature:	Polymer Overlay on PCCP
Location:	Missoula District, Flathead County, Kalispell, US Hwy 2, RP 118
MDT Project Name:	SF 139 – Dern/Spring Creek Reconstruct
MDT Project Number:	HSIP-NH 1-2(193)118
Experimental Project Number:	MT-21-05
Principle Investigator:	Chad DeAustin, Experimental Project Manager, (ExPM)
Technical Contact:	Oak Metcalfe, Materials Engineer

Project Map



Project Description & Outline

This project is the reconstruction and conversion of a four-way intersection into a roundabout. Prior to construction, east/west traffic using US Highway 2 was free flowing and north/south traffic was controlled by stop signs. The roundabout will be constructed of PCCP and the experimental feature for this project will be the addition of a polymer overlay to the PCCP.

A polymer overlay is a treatment that uses a combination of polymer and aggregate to coat a concrete surface. This treatment has many benefits including: protecting the concrete surface, improving safety by increasing skid resistance, and extending the life of the concrete by sealing cracks. This treatment is becoming common practice on many of the new bridge decks throughout Montana because of these benefits. MDT is hoping to see the same results on this PCCP application.

Evaluation Procedures & Schedule

The measure of effectiveness (MOE) prevalent with this project will focus on:

- Construction practices (constructability, construction time, cost effectiveness, etc.),
- Visual documentation of wear of the polymer overlay,
- Visual documentation of PCCP distress, focusing on joints.

In accordance with the Department's 'Experimental Project Procedures,' Research will monitor and report on performance for a minimum of five years annually. This includes delivery of a work plan, construction report, annual reports, and final project report.

2022: Installation/Construction Report
2023-2027: Annual Inspections/Evaluation Reports
2027: Final Evaluation Report/Project Conclusion

A web page will be dedicated to display all reporting from the project.

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