

1. Report No. ND 2003-01	2. Report Date October 2010	3. Contract No. N/A	4. Project No. NH-6-081(053)192
5. Title and Subtitle Comparison of Rehabilitation Strategies on Long Term Ride Performance		6. Report Type Click on link to open report Work Plan <input type="checkbox"/> Construction <input type="checkbox"/> Evaluation <input checked="" type="checkbox"/> Final <input type="checkbox"/>	7. Project No. NH-6-081(055)204 8. Project No. 9. Project No. 10. Project No.
11. Author(s)/Principle Investigator(s)			
12. Performing Organization Name and Address NDDOT M+R <input checked="" type="checkbox"/> North Dakota DOT NDDOT OTHER* <input type="checkbox"/> Materials and Research Division NDSU <input type="checkbox"/> 300 Airport Road UND <input type="checkbox"/> Bismarck ND 58504-6005 UGPTI <input type="checkbox"/> OTHER* <input type="checkbox"/> *see supplementary notes		13. Sponsoring Agency Name and Address North Dakota DOT Materials and Research Division 300 Airport Road Bismarck ND 58504-6005	
14. Supplementary Notes			
15. Abstract Objective This study will evaluate the use of various rehabilitation strategies for extending the effective service life of NDDOT roadways. The objective of this study is to determine which rehabilitation strategy is most effective in correcting existing roadway distresses. The objective will be met by selecting a roadway exhibiting distresses that are deemed borderline as to which rehabilitation strategy to pursue, and construct multiple sections based on the rehabilitation options in question. Scope To compare rehabilitation strategies, sections of the roadway will be rehabilitated using the following designs: <ul style="list-style-type: none"> o 20-year design for Mine and Blend with HBP overlay o 20-year design for HBP overlay o HBP overlay greater than the standard 20-year overlay design The projects will be evaluated over a 20 year period or until failure with the possibility of extending the evaluations based on the performance after 20 years. The items that will be monitored and evaluated are as follows: <ul style="list-style-type: none"> o Distresses (cracks, rutting, etc.) o Ride (IRI) o Construction and maintenance costs (from RIMS) Summary Project NH-6-081(055)204 was delayed until summer 2008, at which point the entire length was reconstructed as a mine and blend project. For this reason, research concerning this section has been terminated. Project NH-6-081(053)192 which runs from RP 192.427 to 204.453 was constructed as specified in the design portion of this report. The contractor was Northstar Material Inc and the cost was \$3,131,856. The 3.5" overlay had more visible distresses than the 5.0" overlay, which had more than the mine & blend section.			
16. Key Words Rehab Strategies Asphalt HBP Structural Overlay	17. Distribution Statement No restrictions. This document is available to the public from: North Dakota Department of Transportation Materials and Research Division: 300 Airport Road Bismarck ND 58504-6005 Office: (701) 328-6900 Fax: (701) 328-0310		18. No. of Pages 19. File type/Size