Alaska Department of Transportation and Public Facilities

Alaska Flexible Pavement Design Manual

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Preface

This manual guides the designer through a comprehensive computerized method for thickness design of asphalt concrete pavements in Alaska. The Alaska Flexible Pavement Design method (AKFPD), a computer program, replaces a collection of pavement design tools previously used by DOT&PF engineers and is intended to be applied to all but the most complicated designs. The manual also replaces most of the information that was formerly contained in the Alaska DOT&PF *Preconstruction Manual*, Chapter 11, Section 1180.

The purpose of this manual is to help the pavement designer produce good pavement design recommendations.

- The manual contains general engineering background to help the designer understand basic principles of the AKFPD design process and how the program itself works.
- The manual describes all functional capabilities of the AKFPD program and provides step-by-step design examples.
- The manual provides specific guidance on input variables and other decision criteria required to run AKFPD.

Finally, the manual also presents some of the broader aspects and policies bearing on the general pavement design process.

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Prepared for the Alaska Department of Transportation and Public Facilities

Robert L. McHattie, P.E.
Inkworks
2324 Waterford Road
Fairbanks, AK 99709

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