

MONTANA DEPARTMENT OF TRANSPORTATION
Helena, Montana 59620-1001

MEMORANDUM

To: Robert E. Burkhardt/FHWA
Kent M. Barnes, P.E./Materials Bureau
John D. Craig/Transportation Planning Division
Jim Greil/Aeronautics Division
Dennis A. Hult/Motor Carriers Service Division – Absent
James E. Hyatt/Maintenance Division
Joel M. Marshik, P.E./Environmental Services – Absent
Stefan Streeter, P.E./Billings District
James A. Walther, P.E./Highway & Engineering Division – Absent

From: Susan C. Sillick

Date: September 26, 2000

Subject: Summary of Minutes from Tuesday, August 29, 2000 RRC Meeting

1. **Budget Report:** Attached - no additions
2. **Research Project – current listing:** Attached
3. **Reports:**
 - 3a. *Evaluation of Geosynthetic Reinforced Flexible Pavement Systems Using Two Pavement Test Facilities* – Progress Report July 31, 2000 – Attached
 - 3b. *Numerical Modeling and Design Development of Geosynthetic Reinforced Flexible Pavements: A Pooled-Fund Study* – Progress Report July 31, 2000 – Attached
 - 3c. *LTAP* – Quarterly Progress Report 1/1/00 to 3/31/00 – Attached
 - 3d. *LTAP* – Quarterly Progress Report 4/1/00 to 6/30/00 – Attached

3e. *Rehabilitation Techniques for Stripped Asphalt Pavements* – Quarterly Progress Report 4/1/00 to 6/30/00 – Attached

It was noted that this project has been extended until the end of the year.

3f. *Cost-Effectiveness of Crack Sealing Materials and Techniques for Asphalt Pavement* – Quarterly Progress Report 4/1/00 to 6/30/00 – Attached

3g. *Sign Retroreflectometers* – Pooled-Fund Study Quarterly Progress Report 4/1/00 to 6/30/00 – Available Upon Request

3h. *Soil Stabilizers and Dust Suppressants* – Pooled-Fund Study Quarterly Progress Report 4/1/00 to 6/30/00 – Available Upon Request

3i. *FRP Composite Concrete Structure Repair* – Pooled-Fund Study Quarterly Progress Report 4/1/00 to 6/30/00 – Available Upon Request

3j. *Storm Water Evaluation* – Pooled-Fund Study Quarterly Progress Report 4/1/00 to 6/30/00 – Available Upon Request

3k. *Field Evaluation of Corrosion Inhibitors for Concrete* – Pooled-Fund Study Quarterly Progress Report 4/1/00 to 6/30/00 – Available Upon Request

3l. *Behavior of Steel Pipe Pile-to-Concrete Pile Cap Connections Under Lateral Loads* – Quarterly Progress Report 4/1/00 to 6/30/00 – Distributed At Meeting

4. **Contract Extensions:** None

5. **Proposals:**

5a. *Extending the Season for Concrete Construction and Repair* – Attached

Joe Kolman and Robert Tholt spoke on behalf of this proposal.

The object of this proposal is to extend the technology of antifreeze concrete admixtures to allow common use of this technology. The use of these admixtures will extend the concrete construction season by allowing construction at much colder temperatures than currently allowed.

Joe and Bob stated the benefits of an extended concrete construction season include shortened construction time, less delay, less public inconvenience, and lower costs. They recommended that the RRC fund this project with \$20,000.00/year for 3 years, for a total of \$60,000.00.

A motion was made by Jim Hyatt to support this study for \$20,000.00 per year, for three years, for a total funding of \$60,000.00. John Craig seconded the motion. All present voted in favor of the motion.

5b. Enhanced Guidance for Implementation of Safety Strategies - Attached

The discussion of this proposal will be held at a future RRC meeting, or through a memo ballot.

5c. Midwest States Pooled Fund Crash Test Program – Midwest Roadside Safety Facility University of Nebraska-Lincoln – Attached

Paul Ferry is the technical representative on this pooled-fund study. He and Carl Peil Recommended that MDT remain involved in this study for another year, with \$5,000.00 in funding.

Jim Hyatt move to support this study with an additional \$5,000.00. Stephen Streeter seconded the motion. All present voted in favor of the motion.

5d. Detrimental Influence of Spring Thaw on Pavement Structures – Attached

This proposal was submitted during the last solicitation process and Bill Vischer attended the meeting to discuss this proposal.

Bill explained that this is a new project, which originated from the results of a previous project with CRREL. He also stated the results will tie into the new AASHTO 2002 Design Guide.

The object of this work is to assimilate new FWD data with previously analyzed data and determine the extent of the seasonal weakening of pavements in Montana. This data will serve as the basis for developing seasonal strength characteristics for unbound pavement materials in Montana. This is a required input in the new AASHTO 2002 Guide.

Kent Barnes made a motion to fund this project. Jim Hyatt seconded the motion. All present voted in favor of the motion.

6. Implementation:

6a. Relating Soil Characteristics to Soil Resistance – To Be Distributed

Jon Graham, University of Montana, Mathematics Science Department, has completed the work on this project which was to explore the possibility of finding a predictive mathematical model to determine R-Values based on the basic soil characteristics.

The process is in place and will be presented to the District Administrators at their next meeting. Use of this information will be left up to the discretion of each District Administrator.

7. LTAP:

7a. LTAP Advisory Board Minutes – Attached

The minutes from the June 2000 LTAP Advisory Board Meeting were previously sent out and Sue said the LTAP Annual Work Program would probably be out in October.

A discussion took place pertaining to the minutes. It was noted that Steve Jenkins wants to increase LTAP's share of gas tax funding from \$54,000.00 to \$100,000.00. This will require legislative action.

Sue mentioned that Steve stated, Bill Cloud/Planning plans to support and take this to the legislature with the backing of Montana's League of Cities and Towns and the Montana Association of Counties. It was further noted that Jim Currie, MDT Deputy Director should be made aware of this as soon as possible.

Being no further business, the meeting was adjourned and Sue thanked everyone for coming.

- Cc: Craig Abernathy/Pavement Analysis & Research Section w/attachments
Bruce H. Barrett/District Administrator-Billings
D. John Blacker/Maintenance Division
Russell G. McDonald/Human Resources Division
Loran Frazier, P.E./District Administrator-Missoula
Michael D. Ferguson/Aeronautics Division
Jason Giard, P.E./District Administrator-Butte
Gary A. Gilmore, P.E./Highways & Engineering Division
Michael P. Johnson/District Administrator-Great Falls
Joseph P. Kolman, P.E./Bridge Bureau
Drew F. Livesay/Motor Carrier Services Division
Robert E. Fischer/Right-of-Way Bureau
William L. McChesney/District Administrator-Glendive
Jeanne Nydegger/Pavement Analysis & Research Section w/attachments
Brooke Page/Pavement Analysis & Research Section w/attachments
Carl S. Peil, P.E./Preconstruction Bureau
Patricia Saindon/Transportation Planning Division
William G. Salisbury/Administration Division
Robert D. Tholt, P.E./Construction Bureau
Jon S. Watson, P.E./Pavement Analysis & Research Section w/attachments
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