

MEMORANDUM

To: RRC Members
D. John Blacker, Administrator/Maintenance Division
Robert Burkhardt/Federal Highway Administration
Monte N. Brown, Administrator/Administration Division
Jim Currie, Deputy Director/Department of Transportation
Dave Galt, Director/ Department of Transportation
Joel M. Marshik, P.E., Administrator/Highway and Engineering Division
Drew F. Livesay, Administrator/Motor Carrier Services Division
Patricia Saindon, Administrator/Transportation Planning Division

From: Susan C. Sillick
Research Section

Date: May 2, 2003

Subject: Summary of Minutes from Tuesday, April 29, 2003 RRC Meeting

The following RRC members were present: Monte Brown, Bob Burkhardt, Jim Currie, Dave Galt, Jim Hyatt (attending for John Blacker), Joel Marshik, Drew Livesay, Pat Saindon, and Sue Sillick. Others present were: Craig Abernathy, Brooke Amestoy, Kent Barnes, Mac McArthur, Vickie Murphy, and Jeanne Nydegger.

1. **Budget Report:** Attached

Sue added a SFY summary budget sheet. This information was present in previous budget reports, but is now highlighted separately

Sue also combined the “what if” budget report with the standard budget report so that the current situation along with pending expenditures is now on one budget report.

Sue will set up a meeting with Dave Galt, Monte Brown, Vickie Murphy, and Joel Marshik to discuss Research’s state fiscal year budget.

2. **Research Project – current listing:** Attached

2a. *Erosion and Sediment Control Best Management Practices* (99.008) – This project is complete. Five reports, including a field and reference manual were delivered and are listed under the reports section (3). In addition to these reports, a training program, rate schedule, and detail drawings were also delivered as a part of this project. All deliverables are located on Research’s Internet and Intranet sites.

The detail drawings and rate schedule will be implemented with the June letting.

The training program was delivered at 6 locations throughout the state in March. Training will be an ongoing effort.

Implementation recommendations will be presented to the RRC in the next few months.

2b. *Cut Slope Stabilization Through Organic Matter Addition* (98.019) – This proposal was sent out for an e-mail ballot and approved by a majority of the RRC.

2c. *Crash Test Pin and Loop Connection on the Concrete Median Barrier* (98.031)

This project is complete. The final report is currently in print. Two concrete median barriers were designed and tested: 1) pin and loop connection and 2) plate connection. Both passed NCHRP 350 standards. We are in the process of requesting formal FHWA approval for their use.

Mark Wissinger had two pieces of each type of barrier fabricated. After reviewing each design, it was decided to move forward with the pin and loop connection because this barrier will connect to our current barrier without a transition piece.

2d. *Technical Panels for New Projects* (03.002, 03.008, 03.009, 03.012) – Sue asked the RRC to submit names for Technical Panels.

3. Reports: Available Upon Request

3a. *Compilation of Landslide Location Maps and Index for Identification of Slide-Prone Areas: A Pilot Study for the Butte District* (98.023) – FHWA/MT-02-007/8150 – Final Report Completed

3b. *Performance of Montana Highway Pavements During Spring Thaw* (99.007) – FHWA/MT-02-006/8155 – Final Report Completed

3c. *Erosion and Sediment Control Best Management Practices: Field Manual* (99.008) – FHWA/MT-03-003/8165 – Final Report Completed

3d. *Erosion and Sediment Control Best Management Practices: Literature Review* (99.008) – FHWA/MT/03/004/8165 – Final Report Completed

3e. *Erosion and Sediment Control Best Management Practices: Organization Structure Survey* (99.008) – FHWA/MT-03-005/8165 – Final Report Completed

3f. *Erosion and Sediment Control Best Management Practices: Reference Manual* (99.008) – FHWA/MT-03-006-8165 – Final Report Completed

3g. *Erosion and Sediment Control Best Management Practices: Users Survey* (99.008) – FHWA/MT-03-007/8165 – Final Report Completed

- 3h. ***Deck Performance Model Feasibility Study*** (01.011) – FHWA/MT-02-009/8166 – Final Report Completed
- 3i. ***Cooperative Training Program*** (01.007) – FHWA/MT-02-014/8168 – Final Report Completed
- 3j. ***Methods for Determining Bankfull Discharge and Other Flood Discharges for Ungaged Sites in Western Montana Based on Channel Morphology*** – Progress Report – 7/1/2002 to 12/31/2002
- 3k. ***Hydraulic Characteristics of the Upper Yellowstone River, Montana*** (99.018) – Progress Report – 7/1/2002 to 12/31/2002
- 3l. ***Evaluation of Methods for Estimation of Bridge-Pier Scour for Streams with Coarse Bed Materials Based on Observed Pier Scour in Montana*** (99.019) – Progress Report – 7/1/2002 to 12/31/2002
- 3m. ***A Study for the Economic Effects of Reconfiguring Montana's Two-Lane Highways*** – Progress Report – January 2003
- 3n. ***A Study for the Economic Effects of Reconfiguring Montana's Two-Lane Highways*** – Progress Report – February 2003
- 3o. ***LTAP*** – Quarterly Progress Report – 10/01/2002 to 12/31/2002
- 3p. ***Fish Passage at Road Crossings in Montana Watersheds Providing Bull and Cutthroat Trout Habitat*** – Quarterly Progress Report – 01/01/03 to 03/31/03
- 3q. ***Use of Dynamic Modulus (E*) in Hot-Mix Asphalt Design*** – Pooled Fund Study – Quarterly Progress Report – 01/10/03 to 03/31/03
- 3r. ***Animal-Vehicle*** – Pooled Fund Study – Progress Report – February 2003
- 3s. ***Animal-Vehicle*** – Pooled Fund Study – Progress Report – March 2003
- 3t. ***Stormwater BMP*** – Pooled Fund Study – Progress Report – March 2003
- 3u. ***Extending the Season for Concrete Construction and Repair*** – Pooled Fund Study – Progress Report – February 2003
- 3v. ***Extending the Season for Concrete Construction and Repair*** – Pooled Fund Study – Progress Report – March 2003
- 3w. ***Performance of Steel Pipe Pile to Concrete Bent Cap Connection Subjected to Seismic Loading or High Traverse Loading – Phase II*** – Progress Report – April 2003

3x. *RockFall Hazard Classification and Mitigation System* – Quarterly Progress Report – 1/1/03 - 3/31/03

3y. *Highway Safety* – Pooled Fund Study – Quarterly Progress Report 1/1/03 – 3/31/03

4. **Contract Extensions:** None

5. **Proposals:**

5a. *Road Sand Management on Highways Adjacent to Streams* – (02.004) – Attached

Craig Abernathy/Research Section attended the meeting as a member of the Technical Panel speaking in favor of this proposal, which the Technical Panel recommends for funding.

The Technical Panel previously received an approval-in-concept to issue an RFP to the University for an MPART Small Project.

The purpose of this project is to develop guidelines for management of winter road traction materials on Montana highways so that the impacts on adjacent aquatic resources from such materials can be minimized.

Dave Galt made a motion to fund this project at \$25,000.00. Pat Saindon seconded the motion. All present voted in favor of the motion.

5b. *Extending the Season for Concrete Construction and Repair, Phase II – Defining Engineering Parameters* – Pooled Fund Study – Attached

Earl (Mac) McArthur/Construction Bureau spoke on behalf of this proposal and has been designated as the Technical Contact person for this project.

When Phase I is completed later this year, it will provide the Construction Bureau with tools to design, mix, place, and cure concrete in below-freezing weather. The Construction Bureau Supports Phase II utilizing the aforementioned information to define other benefits of using off-the-shelf concrete admixtures that include enhanced durability and thermal safety. The use of antifreeze mixture could provide MDT with cost-saving benefits during the cold weather construction season.

Joel Marshik made a motion to support this project with a funding level of \$10,000.00 per year for three years for a total of \$30,000.00. Pat Saindon seconded the motion. The motion passed.

5c. *Western Alliance for Quality Transportation Construction (WAQTC)* – Pooled Fund Study – Attached

Kent Barnes/Materials Bureau presented a brief synopsis of this project in support of

the pooled fund study.

The objective of this study is to facilitate management of the WAQTC as a regional Training and Certification organization. This proposal supports the development and refinement of a training and qualification program for construction inspections and material testing technicians by WAQTC.

Joel Marshik made a motion to fund this project at \$10,000.00 per year for five years for a total of \$50,000.00. Monte Brown seconded the motion. The motion passed.

6. **Implementation:** None

7. **NCHRP Projects** – Attached

Sue requested nominations for new NCHRP project panel nominations be sent to her by May 23rd.

Many RRC members will not be available for the regular May meeting. Therefore, anything requiring immediate attention will be sent out for an e-mail vote. The next meeting will be June 24, 2003.

cc: Craig Abernathy/Research Section
Debbie Alke, Administrator/Aeronautics Division
Brooke Amestoy/Research Section
Kent M. Barnes, P.E./Materials Bureau
Bruce H. Barrett/District Administrator-Billings
Jeffery M. Ebert, P.E./District Administrator-Butte
Loran Frazier, P.E./District Administrator-Missoula
Dave Hill/Environmental Services
John Horton/Right-of-Way Bureau
Michael P. Johnson/District Administrator-Great Falls
Joseph P. Kolman, P.E./Bridge Bureau
William L. McChesney/District Administrator-Glendive
Russell G. McDonald/Human Resources Division
Robert D. Morgan, P.E./Traffic & Safety Bureau
Vickie Murphy/Highway and Engineering Division
Kenneth H. Neumiller/Engineering Oversight Bureau
Jeanne Nydegger/Research Section
Carl S. Peil, P.E./Preconstruction Bureau
Timothy W. Reardon/Legal Services
James A. Walther, P.E./Highway and Engineering Division
Mark A. Wissinger, P.E./Construction Bureau
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