



October 25, 2010

Alan Woodmansey, P.E.
Great Falls and Billings Districts Operations Engineer
Federal Highway Administration (FHWA)
585 Shepard Way
Helena MT 59602



Subject: Statewide Programmatic Categorical Exclusion for Pavement Preservation Projects
NH 1-3(64)209
East Glacier-Browning
Control Number: 6961000

Dear Alan Woodmansey:

The MDT Environmental Services Bureau has reviewed the Preliminary Field Review/Scope of Work Report (PFR/SOW) for the subject project. Based on the completed Environmental Checklist for Pavement Preservation Projects (Checklist), we conclude that the Statewide Programmatic Categorical Exclusion for these types of projects would cover this project. For your information, I have attached a copy of the PFR/SOW (including the location map) and the signed Environmental Checklist. Environmental-related Special Provisions will be included in the contract plans.

If you have questions or concerns, please contact Eric Thunstrom at 444-7648. He will be pleased to assist you.

Sincerely,

Heidy Bruner, P.E.
Environmental Services Bureau Engineering Section Supervisor

Attachments: Environmental Checklist, PFR/SOW Report

e-copies with attachment (Checklist only, unless noted):

Michael P. Johnson	Great Falls District Administrator
Tom Martin, P.E.	Environmental Services Bureau Chief
Heidy Bruner, P.E.	Environmental Services Bureau Engineering Section Supervisor
Eric Thunstrom	Environmental Services Bureau Project Development Engineer
Paul Ferry, P.E.	Highways Engineer
Dustin Rouse, P.E.	Road Design Area Engineer
Kevin Christensen, P.E.	Construction Engineer
Suzy Price	Contract Plans Bureau Chief
David Jensen	Fiscal Programming Section Supervisor
Montana Legislative Branch	Environmental Quality Council (w/ PFR/SOW also)
File	Environmental Services Bureau

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(FOR PROJECTS WITH NO RIGHT-OF-WAY INVOLVEMENT)

Applicant cannot be authorized to proceed with the proposed work until ALL of the conditions of the checklist have been satisfied.

**ENVIRONMENTAL CHECKLIST FOR PAVEMENT PRESERVATION PROJECTS
(CRACK SEALING, SEAL & COVER, THIN OVERLAYS, MILL & FILL, PLANT MIX LEVELING, MILL OGFC, MICRO SURFACING, FOG SEAL)**

Project No.: NH 1-3(65)209 **ID:** UPN 6961000 **Project Name:** EAST GLACIER - BROWNING

Reference Post (Station) RP 208.955± **to Reference Post (Station)** RP 218.898±

Applicants Name: MDT **Address:** 2701 Prospect, Helena MT 59620-1001

Type of Proposed Pavement Preservation Activity: Work Type : 183 Resurfacing – Seal & Cover

IMPACTS ON THE PHYSICAL ENVIRONMENT (TO BE COMPLETED BY APPLICANT)

Impact Questions	[Y/N] There are Potential Impacts; or Item Requires Documentation, Evaluation, Mitigation Measures, and/or (a) Permit(s). Comment or List Documentation, Evaluation, Mitigation Measure, and/or (a) Permit(s) Required for Items 1 through 7.(Use attachments if necessary)		
	Yes	No	
1. Does the proposed action require work in, across, and/or adjacent to a river which is a component of, or proposed for inclusion in Montana's Wild and/or Scenic Rivers system. (See listing on page 3)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Are there any recorded occurrences, and/or critical habitat for Federally-listed Threatened and Endangered Species in the vicinity of the proposed activity?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. Does the proposed action have an impact on water quality? If answer is NO go to question 4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3a. If the answer to number 3 is yes, is a Clean Water Act ' Section 402 permit required? (MPDES issued by MDEQ)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
4. Does the proposed project have impacts to wetlands or waters of the U.S.? If answer is NO go to question 5.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4a. If the answer to number 4 is yes, is a Clean Water Act ' 404 permit authorization required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
4b. If the answer to number 3 or 4 is yes, is a Stream Protection Act ' 124SPA permit required? (Issued by MDFWP)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
5. Does the proposed project involve hazardous waste site[s]? (Superfund, spills, underground storage tanks, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is the proposed activity on and/or within approximately 1.6 Km (1 mile) of an Indian Reservation? If answer is NO go to question 7.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6a. Are any Tribal water permits required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
7. Is the proposed project in a "Class I Air Shed" (Some Indian Reservations)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> N/A

MASTER FILE COPY

8. Magnitude and significance of potential impacts: To be completed by applicant.

Checklist prepared by: Dustin Rouse **Project Design Engineer** October 25, 2010
Applicant ENVIRONMENTAL ENGINEERING Date

Approved by: [Signature] **SECTION SUPERVISOR** 10/25/10
Environmental Services Title Date

Project Number: UPN 6961000 ID: NH 1-3(65)209 Designation: EAST GLACIER - BROWNING

(when items 1, 2, 3, 3a, 4, 4a, 4b, 5, 6, 6a, or 7 are checked "Yes")

- A.** The applicant shall complete the checklist indicating a "Yes" or "No" for each item, except number 8 which may require a narrative response.
- B.** When a "Yes" is indicated on any number of items 1 through 7, MDT must explain why and provide the appropriate documentation, evaluation, permit, and/or mitigation measures required to satisfy environmental concerns for the project. Use attachments if necessary.
- C.** If the applicant checks "Yes" for any one item, the checklist and MDT's mitigation proposal, documentation, evaluation and/or permit shall be submitted to MDT Environmental Services. Contact Number 444-7228.
- D.** When the applicant checks a "Yes" item, MDT cannot be authorized to proceed with the proposed work until Environmental Services reviews the information and signs the checklist.
- E.** MDT will obtain all necessary permits or authorizations from other entities with jurisdiction prior to beginning the Pavement Preservation Activity.

Montana's Wild and/or Scenic Rivers system as published by the U.S. DEPARTMENT OF AGRICULTURE (USDA), or the U.S. DEPARTMENT OF THE INTERIOR (USDol)

1. Middle Fork of the Flathead River (headwaters to South Fork of the Flathead River confluence)
2. North Fork of the Flathead River (Canadian Border to Middle Fork of the Flathead River confluence)
3. South Fork of the Flathead River (headwaters to Hungry Horse Reservoir)
4. Missouri River (Fort Benton to Charles M. Russell National Wildlife Refuge)



Montana Department of Transportation
PO Box 201001
Helena, MT 59620-1001

Memorandum

To: Paul R. Ferry, PE
Highways Engineer

From: Damian M. Krings, P.E *DER for DMK*
Road Design Engineer

Date: June 23, 2010

Subject: NH 1-3(64)209
East Glacier - Browning
UPN 6961000
183 ~ Resurfacing – Seal & Cover

Please approve the attached Preliminary Field Review Report.

Approved Lesly Tribelhorn for Paul Ferry Date 6/24/10
Paul R. Ferry
Highways Engineer

We are requesting comments from those on the distribution list. We will assume their concurrence if we receive no comments within two weeks of the approval date.

Michael P. Johnson, District Administrator
Kent Barnes, Bridge Engineer
Tom Martin, Environmental Services Bureau Chief
Duane Williams, Traffic and Safety Engineer
Rob Stapley, Right-of-Way Bureau Chief

Lynn Zanto, Rail, Transit, & Planning Division Administrator
Jake Goettle, Construction Engineering Services Bureau
Matt Strizich, Materials Engineer
Jon Swartz, Maintenance Administrator
Paul Ferry, Highways Engineer

cc:
Dave Jensen, Fiscal Programming Section Supervisor
Damian Krings, Road Design Engineer
Dustin Rouse, Project Design Manager
Highways File

Don White, Blackfeet Tribal Planning Department, PO Box 850,
Browning, MT 59417-0850
Glacier County Commissioners, 512 E Main Street, Cut Bank,
MT 59427

e-copies:

Jim Walther, Preconstruction Engineer
Lesly Tribelhorn, Highways Design Engineer
Mark Goodman, Hydraulics Engineer
Kurt Marcoux, District Hydraulics Engineer
Bonnie Gundrum, Env. Resources Section Supervisor
Paul Sturm, District Biologist
Eric Thunstrom, G.F. District Environmental Eng.
Danielle Bolan, Traffic Engineer
Ivan Ulberg, G.F. District Traffic Project Engineer
Pierre Jomini, Safety Management Engineer
Doug Wilmot, G.F. District Construction Engineer
Jon Watson, Pavement Engineer
Lee Grosch, District Geotechnical Manager
Bryce Larsen, Supervisor, Photogrammetry & Survey
Marty Beatty, Engineering Information Services
Paul Grant, Public Involvement Officer
Jean Riley, Planner

Jake Goettle, Construction Bureau – VA Engineer
Steve Prinzing, District Preconstruction
Christie McOmer, District Projects Engineer
Stan Kuntz, G.F. District Materials Lab
Dave Hand, District Maintenance Chief
Walt Scott, R/W Utilities Section Supervisor
Amanda Brown, Acting R/W Design Manager
Greg Pizzini, Acquisition Manager
Joe Zody, R/W Access Management Section Manager
Gary Larson, Project Analysis Bureau Chief
Sue Sillick, Research Section Supervisor
Kim Janzen, Shelby Area Maintenance Superintendent
Mark Keeffe, Bicycle/Pedestrian Coordinator
Wayne Noem, Secondary Roads Engineer
Jim Lynch, Tribal Coordinator
Gerry Brown, Construction Engineering Services Bureau
Jason Sorenson, Engineering Cost Analyst
Mike MacDonald, Havre Maintenance Chief

Preliminary Field Review

Introduction

This report was developed from information taken from the preliminary field review conducted on February 24, 2010. The following people were in attendance:

Mick Johnson	District Administrator	MDT - Great Falls
Steve Prinzing	D.E.S.E.	MDT - Great Falls
Jerry Boggs	Maintenance	MDT - Browning
Mark Beckedahl	Construction	MDT - Cut Bank
Matt Widhalm	Construction	MDT - Cut Bank
Kim Janzen	Maintenance	MDT - Havre
Mike MacDonald	Maintenance	MDT - Havre
Dustin Rouse	Road Design, Project Manager	MDT - Helena
Richard Savage	Road Design	MDT - Helena
James Dunbar	Road Design	MDT - Helena
Steve McEvoy	Pavement Analysis	MDT - Helena
John Sharkey	Geotech	MDT - Helena
Lee Grosch	Geotech	MDT - Helena
Gretchen Hedrick	Hydraulics	MDT - Helena
Don White	Transportation Department	Browning

Proposed Scope of Work

This project was nominated as a preventative maintenance seal and cover. The intent of this project is to extend the life of the existing plant mix surface.

During the field review it was noted that the pavement in the southbound climbing lane from RP 216.436 to RP 218.273 has sustained moisture damage and requires excessive maintenance. The review team originally recommended a mill and fill for this area to be included in the project. Subsequent investigation resulted in a recommendation to remove and replace the existing surfacing and base. FHWA has approved the use of Pavement Preservation funds for the digout.

Crack sealing, rumble strips, upgraded signing, and pavement markings are to be included in the project. Delineators at one half normal spacing will also be included.

Project Location and Limits

- a. This project is located in Glacier County on the Blackfeet Indian Reservation, on Primary Route N-1/US 2. The project begins slightly south of the town of East Glacier Park, at RP 208.955, the end of constructed project NH 1-3(33)304 F, East Glacier - West, and extends north for 9.7 miles, ending at RP 218.898, the beginning of constructed project NH 1-3((57)219, Browning - East. A section from RP 209.8 to RP 210.7 is excluded from this project as it is programmed to be reconstructed.
- b. The route is functionally classified as a Principal Arterial.
- c. As Built Project Numbers
 - BR 1-3(43)209 Midvale Creek – East Glacier 2000 RP 208.955 to RP209.291
 - As Built Sta 0+00.00 to Sta 5+40.00(met) Project Sta 0+00.00 to Sta 17+71.65
 - F-BHF-1-3(8)209 Two Medicine Bridge – East & West 1984
 - As Built Sta 1+43.81 to Sta 28+42.00 Project Sta 1+43.81 to Sta 28+42.00
 - As Built Sta 76+83.00 to Sta 91+00.00 Project Sta 76+83.00 to Sta 91+00.00
 - NH 1-3(34)210F Two Medicine Bridge East 1997
 - As Built Sta 27+73.68 to Sta 150+55.59(met) Project Sta 91+00.00 to Sta 493+95.00

Preliminary Field Review

- d. The direction of the proposed project runs west to east and with the reference post. Stationing of the project will be by as built English stationing or as built metric stationing converted to English stationing.

Work Zone Safety and Mobility

At this time, Level 3 construction zone impacts are anticipated for this project as defined in the Work Zone Safety and Mobility (WZSM) guidance. The plans package will include a Transportation Management Plan (TMP) consisting of a Traffic Control Plan (TCP). A limited Public Information (PI) component to address lane closures will also be included in the plan package.

Physical Characteristics

- a. This project is located in a rural environment with rolling terrain.
- b. The adjacent properties consist mainly of farm and range land.
- c. The existing pavement width varies from 31.4 feet to 48 feet with the majority of the project having a width of 40 feet.
- d. PvMS Data:
The indices and condition levels for the 2009 survey year are given in the following table:

Table 1	
Pavement Management Pavement Conditions and Treatment Recommendations Report	
N-1	
RP 204.00 to 209.20	
Index	Value (Description)
Ride Index	80.1 (Good)
Rut Index	84.3 (Good)
Alligator Cracking Index (ACI)	97.4 (Good)
Miscellaneous Cracking Index (MCI)	83.4 (Good)
Construction Treatment 2010	AC Crack Seal
Maintenance Treatment 2010	AC Crack Seal
RP 209.20 to 210.60	
Ride Index	69.5 (Fair)
Rut Index	73.1 (Good)
Alligator Cracking Index (ACI)	77.4 (Fair)
Miscellaneous Cracking Index (MCI)	91.9 (Good)
Construction Treatment 2010	AC Thin Overlay
Maintenance Treatment 2010	AC Thin Overlay
RP 210.60 to 219.00	
Ride Index	77.3 (Fair)
Rut Index	70.7 (Good)
Alligator Cracking Index (ACI)	91.0 (Good)
Miscellaneous Cracking Index (MCI)	78.8 (Fair)
Construction Treatment 2010	AC Crack Seal, Cover
Maintenance Treatment 2010	AC Crack Seal, cover

Preliminary Field Review

e. Core data:

The following cores were taken within the limits of the proposed digout section located in the Southbound climbing Lane:

No.	MP	Lane	Core Length (mm)					5 th	Comment
			Top	2 nd	3 rd	4 th	5 th		
1	217.159	Climbing	55	90	60	90	50		
2	217.159	Driving	55	90	40	80			
3	217.494	Climbing	60	100	rubble				
4	217.494	Driving	60	90	35				
5	217.882	Climbing	60	100					
6	217.882	Driving	60	80	70	90			
No.	MP	Lane	Top	2 nd	3 rd	4 th	5 th	Comment	
1	217.159	Climbing	2	1	1	1	50	Severe Moisture Damage	
2	217.159	Driving	2	1	1	1		Severe Moisture Damage	
3	217.494	Climbing	1	1	0			Severe Moisture Damage	
4	217.494	Driving	2	1	1			Severe Moisture Damage	
5	217.882	Climbing	1	1				Severe Moisture Damage	
6	217.882	Driving	2	1	2	2		Severe Moisture Damage	

Traffic Data

A traffic data analysis was not requested for this project due to its limited scope.

Accident Analysis

An accident analysis was not requested for this project due to its limited scope.

Major Design Features

- Design Speed.** Design speed is not an applicable design criterion since this is a pavement preservation project.
- Geometrics.** The existing horizontal and vertical alignments are adequate for pavement preservation.
- Typical Sections and Surfacing.** There are no proposed changes to the roadway widths for this project.

Digout Area - Recommended surfacing on the southbound climbing lane and shoulder (including tapers) from RP 216.384 to RP 218.089 is as follows:

0.40' Plant Mix Bituminous Surfacing

0.65' Crushed Aggregate Course

Geotech has recommended placing 2' of A-1-a material with an underlayment of stabilization geotextile fabric. The A-1-a material is specified to have a maximum 8% passing the #200 sieve.

- Hydraulics.** No hydraulics issues will be addressed with this project.
- Bridges.** There is no bridge involvement on the project.
- Traffic.** New pavement markings will be required. Signing will be upgraded to current standards.

At the field review it was noted that this area has hazardous winter driving conditions with frequent whiteouts. It was suggested to replace the existing delineators with one using reflective tape to increase visibility and to space the delineators at one half standard spacing. The reflective tape does not meet MUTCD Section 2.A.21 and will not be

Preliminary Field Review

- included with the project. Delineators at one half normal spacing will be included.
- g. **Pedestrian/Bicycle/ADA.** Existing pedestrian or bicycle facilities will not be impacted with this seal and cover project.
 - h. **Miscellaneous Features.** There are no guardrail improvements for this seal and cover. New rumble strips will be included on the project.
 - i. **Context Sensitive Design Issues.** There are no Context Sensitive Design issues on this project.

Other Projects

No other projects are tied to this project.

Design Exceptions

No design exceptions are anticipated for this project.

Right-of-Way

There is no right-of-way involvement for this project.

Access Control

Access control will not be required for this project

Utilities/Railroads

There is no railroad or utility involvement with this project.

Intelligent Transportation Systems (ITS) Features

There are no known ITS solutions that should be designed with this seal and cover project. There are no WIM sites located on the proposed project.

Survey

Estimated plan quantities will be determined from as-builts.

Public Involvement

Due to the limited scope of the project, a level "A" public involvement plan should suffice. This will include a news release to the local media.

Environmental Considerations

No apparent significant environmental impacts or issues were identified. We believe the project meets the criteria for the Programmatic Agreement as a Categorical Exclusion. The appropriate environmental documentation will be provided in order to comply with applicable regulations.

Traffic Control

Traffic will be maintained throughout the project during construction with the appropriate signing, flagging, etc. All signing will be in accordance with the Manual on Uniform Traffic Control Devices. Access to residences within the project will be maintained to the maximum extent possible.

Project Management

MDT's Helena Road Design Great Falls Area will be responsible for the road design plans. The Project Design Manager will be Dustin Rouse. This project is not under full FHWA oversight.

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Project Manager :Dustin Rouse

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Preliminary Cost Estimate

The estimated cost that has been programmed to construct this project is \$953,000.

The PFR estimate includes: the 1.8 mi digout, surfacing, and full length seal & cover, traffic control, mobilization, contingencies, CE, inflation, and IDC. The cost estimate does not include TERO or IOS fees.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	1,579,000		
Signing	20,000		
Traffic Control	150,000		
Subtotal	1,749,000		
Mobilization (12%)	210,000		
Subtotal	1,959,000		
Contingencies (8%)	157,000		
Total CN	<u>\$2,116,000</u>	<u>\$262,000</u>	<u>\$2,794,000</u>
CE (10%)	<u>\$212,000</u>	<u>\$26,000</u>	<u>\$280,000</u>
TOTAL CN+CE	<u>\$2,328,000</u>	<u>\$288,000</u>	<u>\$3,074,000</u>

Note: Inflation is calculated in PPMS to the letting date plus one year to estimate mid-point of construction. If there is no letting date, the project is assumed to be inside the current TCP and is given a maximum of 5 years until letting. IDC is calculated at 17.48% as of FY 2010.

Ready Date

This project is a FFY 2011 Pavement Preservation Project. The ready date shown in OPX for this project is August 1, 2010. Due to the change in scope of this project, a new Ready Date will be requested pending FM activity requests. The planned finish for this project is anticipated to be in the fall of 2010.

Site Map

The project site map is attached.

Preliminary Field Review

NH 1-3(64)209

Project Manager :Dustin Rouse

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