



December 6, 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  
STPP 3-1(31)9  
Jct MT 200-Choteau  
Control Number: 7361000

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

electronic 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.: STPP 3-1(31)9 ID: UPN 7361000 Project Name: JCT MT 200 - CHOTEAU

Reference Post (Station) RP 8.5 to Reference Post (Station) RP 40.8

Applicants Name: Montana Department of Transportation Address: PO Box 201001, Helena, MT 59620-1001

Type of Proposed Pavement Preservation Activity: Work Type 185: Resurfacing Crack Sealing

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).		
	Yes	No	Comment or List Documentation, Evaluation, Mitigation Measure, and/or (a) Permit(s) Required for Items 1 through 7.(Use attachments if necessary)
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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
4a. If the answer to number 4 is yes, is a Clean Water Act ' 404 permit authorization required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" type="checkbox"/>	
6a. Are any Tribal water permits required?	<input type="checkbox"/>	<input checked="" 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 District Project Engineer November 15, 2010  
Applicant Title Date

Approved by: [Signature] ENVIRONMENTAL ENGINEERING SECTION SUPERVISOR 12/6/10  
Environmental Services Title Date

(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)



**Memorandum**

To: Distribution

From: Paul R. Ferry, P.E. [P.R.F](#)  
 Highways Engineer

Date: November 19, 2010

Subject: STPP 3-1(13)9  
 JCT MT 200 – CHOTEAU  
 7361000  
 Work Type: 185 – Resurfacing Crack Sealing

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on 11/22/10. We request that those on the distribution review this report and submit your concurrence within two weeks of the approval date.

Your comments and recommendations are also requested if you do not concur or concur subject to certain conditions. When all personnel on the distribution list have concurred, and the environmental documentation is approved, we will submit this report to the Preconstruction Engineer for approval.

I recommend approval:

Approved \_\_\_\_\_ Date \_\_\_\_\_

**Distribution:**

- |   |  |
|---|--|
| Mick Johnson, District Administrator            | Lynn Zanto, Rail, Transit, & Planning Division Administrator |
| Kent Barnes, Bridge Engineer                    | Jake Goettle, Construction Engineering Services Bureau       |
| Tom Martin, Environmental Services Bureau Chief | Matt Strizich, Materials Engineer                            |
| Duane Williams, Traffic and Safety Engineer     | Jon Swartz, Maintenance Administrator                        |
| Robert Stapley, Right-of-Way Bureau Chief       |  |
| Paul Ferry, Highways Engineer                   |  |

**cc:**

- |  |                            |
|--|----------------------------|
| Dave Jensen, Fiscal Programming Section Supervisor |                            |
| Dustin Rouse, Project Design Manager, GF District  |                            |
| Damian Krings, Road Design Engineer                |                            |
| Cascade County Commissioners                       | Teton County Commissioners |
| 325 Second Ave. North Room 111                     | 1 Main Ave S# 105          |
| County Annex Building                              | Choteau, MT 59422          |
| Great Falls, MT 59401                              |                            |

**e-copies:**

- |   |   |
|---|---|
| Jim Walther, Engineering, Preconstruction Engineer      | Jason Sorenson, Engineering Cost Analyst          |
| Lesly Tribelhorn, Highways Design Engineer              | Jake Goettle, Construction Bureau – VA Engineer   |
| Mark Goodman, Hydraulics Engineer                       | Steve Prinzing, District Preconstruction Engineer |
| Kurt Marcoux, District Hydraulics Engineer              | Christie McOmer, District Projects Engineer       |
| Bonnie Gundrum, Env. Resources Section Supervisor       | Stan Kuntz, GF District Materials Lab             |
| Paul Sturm, District Biologist                          | David Hand, GF District Maintenance Chief         |
| Eric Thunstrom, District Project Development Engineer   | Walt Scott, R/W Utilities Section Supervisor      |
| Danielle Bolan, Traffic Engineer                        | David Hoerning, R/W Engineering Manager           |
| Ivan Ulberg, District Traffic Project Engineer          | Greg Pizzini, Acquisition Manager                 |
| Pierre Jomini, Safety Management Engineer               | Joe Zody, R/W Access Management Section Manager   |
| Stephanie Brandenberger, Bridge Area Engr., GF District | Paul Johnson, Project Analysis Bureau             |
| Matt Strizich, Materials Engineer                       | Sue Sillick, Research Section Supervisor          |

Daniel Hill, Pavement Analysis Engineer  
Lee Grosch, District Geotechnical Manager  
Bryce Larsen, Supervisor, Photogrammetry & Survey  
Marty Beatty, Engineering Information Services  
Paul Grant, Public Involvement Officer  
Jean Riley, Planner

Alice Flesch, ADA Coordinator  
Mark Keeffe, Bicycle/Pedestrian Coordinator  
Wayne Noem, Secondary Roads Engineer  
Jim Lynch, Tribal Coordinator  
Becky Duke, Traffic Data Collection Section Supervisor (WIM)



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

**Memorandum**

To: Paul R. Ferry, PE  
Highways Engineer

From: Damian M. Krings, PE [D.M.K.](#)  
Road Design Engineer

Date: November 19, 2010

Subject: STPP 3-1(13)9  
JCT MT 200 – CHOTEAU  
7361000  
Work Type: 185 – Resurfacing Crack Sealing

Please approve the attached Preliminary Field Review Report/Scope of Work Report.

Approved Paul R. Ferry Date 11/22/10  
Paul R. Ferry, PE, Highways Engineer

The same report is also being distributed under a separate cover as a Scope of Work Report for comments and approval recommendations.

cc (w/attach.):  
Damian Krings, Road Design Engineer

## Preliminary Field Review/Scope of Work Report

### **Introduction**

This report was developed from information taken from the preliminary field review conducted on October 26, 2010. The following people were in attendance:

Mick Johnson	District Administrator	MDT - Great Falls
Steve Prinzing	D.E.S.E.	MDT - Great Falls
Dustin Rouse	Road Design, Project Manager	MDT - Helena
Lotse Townsend	Road Design	MDT - Helena
Gerry Brown	Construction Eng. Services	MDT – Great Falls
Steve McEvoy	Pavement Analysis	MDT - Helena
Jim Cornell	Traffic Signing	MDT - Helena
James Combs	District Traffic	MDT – Great Falls
Christie McOmber	Districts Project Engineer	MDT – Great Falls
Robert Morgan	GF Maintenance Sun River	MDT – Great Falls
Gary Engman	GF Maintenance	MDT – Great Falls
Doug Nowlin	GF Maintenance Choteau	MDT – Great Falls

### **Proposed Scope of Work**

This project has been nominated for a crack seal in an effort to prolong the existing pavement life.

### **Purpose and Need**

Numerous cracking was observed during the preliminary field review. The purpose of this project is to seal the roadway and improve the functional condition of the road.

### **Project Location and Limits**

- a. This project is located in Cascade and Teton County on State Primary Route 3/US 89. The project begins at RP 8.5 and extends northwest for 32.3 miles (52.0 km), ending inside the Choteau city limits at RP 40.77.
- b. The project begins in Cascade County and enters Teton County at RP 20.06. Further northwest the project enters Fairfield city limits at RP 23.414 and exits at RP 23.962. Near the end of the project it enters Choteau city limits at RP 40.466.
- c. The route is functionally classified as a minor arterial.
- d. The last reconstruct made on this project between RP 8.5 thru RP 16.8 was in 1940, between RP 16.8 thru RP 24.5 was in 1984, and between RP 24.5 thru RP 40.7 was in 1940. The project numbers listed consecutively are RTP-HES 3-1(8), STPP 3-1(15)18, and F3-2(10).
- e. Adjacent project number HHS 24-4(2) connects with this project on the south side and STPP 3-2(55)41 connects at the end of the project on the north side. Stationing runs from south to north.

### **Work Zone Safety and Mobility**

At this time, Level 2 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 mainly of a Traffic Control Plan (TCP). A limited Public Information (PI) component to address lane closures and wide load detours will also be included in the plan package. These issues are discussed in more detail under the Traffic Control and Public Involvement sections.

## Preliminary Field Review/Scope of Work Report

STPP 3-1(13)9  
 JCT MT 200 – Choteau  
 Project Manager : Dustin Rouse

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### Physical Characteristics

- a. This project is located in a rural environment with rolling terrain. The existing pavement width ranges from 24 feet to 55 feet.
- b. The properties adjacent to the project primarily consist of farm land and grazing.
- c. The existing surfacing data obtained from as-built plans between R.P. 20.1 thru R.P. 27.3 from 2000, project number STPP 3-1(15)18, show 0.2 feet of plant mix surfacing over 0.2 feet of Cold Recycled Plant Mix. Plans from 1941, Choteau to Sun River Highway, project number FAP 65-A(3), show a 2” plant mix surfacing over 4” top course. Below the two layers is another 6” base material over 2” top course.
- d. PvMS Index Numbers & Recommended Treatments

The indices and condition levels are given in the following table:

2009 SURVEY YEAR	RP 8.4 TO RP 16.9	RP 16.9 TO RP. 18.1	RP 18.1 TO RP 23.4	RP 23.4 TO RP 28.2	RP 28.2 TO RP 34.2	RP 34.2 TO RP 40.8
Ride	79.2 (Fair)	83.1	83.3	82.5	80.5	83.0
Rut	67.3 (Good)	70.2	71.5	72.6	74.3	79.1
Alligator Cracking	100.0 (Good)	97.9	99.5	98.3	97.6	96.7
Miscellaneous Cracking	99.1 (Fair)	97.7	84.3	92.8	97.9	97.7
Recommendation (Construction)	AC Crack Seal & Cover	Do Nothing	AC Crack Seal & Cover			
Recommendation (Maintenance)	AC Crack Seal & Cover	Do Nothing	AC Crack Seal & Cover			

- e. There are 13 existing structures that fall within the limits of this project; they are summarized in the table below:

Structure Number	Feature Crossed	Width (ft)	Length (ft)	Year Built	Structure Status
P00003008+03441	GF Sun River Valley Ditch	28'	21'	1940	Not Deficient
P00003008+08371	GF Mill Coulee Creek	28'	78'	1940	Not Deficient
P00003011+00681	GF Mill Coulee Creek	28'	78'	1940	Not Deficient
P00003014+05331	GF Mill Coulee Canal	28'	25'	1940	Not Deficient
P00003015+04241	GF Stockpass	32'	12'	1940	Not Deficient
P00003017+09661	GF Greenfield S. Canal	38'	63'	1960	Not Deficient
P00003020+03001	GF Greenfield S. Canal	43'	71'	1983	Not Deficient
P00003022+01001	GF Greenfields Main Canal	43'	96'	1983	Not Deficient
P00003034+05401	Stockpass	63'	12'	1940	Not Deficient

## Preliminary Field Review/Scope of Work Report

STPP 3-1(13)9

JCT MT 200 – Choteau

Project Manager : Dustin Rouse

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P00003036+09001	Stockpass	63'	12'	1940	Not Deficient
P00003037+09001	GF S-T Canal	27'	8'	1940	Not Deficient
P00003038+07811	Stockpass	63'	12'	1940	Not Deficient
P00003039+05181	GF Teton River	26'	227'	1939	Not Deficient

### Traffic Data

Due to the scope of work on this crack seal project traffic data was not requested.

### Crash Analysis

Due to the scope of work on this crack seal project crash analysis was not requested.

### Major Design Features

- a. **Design Speed.** Design speed is not an applicable design criterion since this project is a crack seal.
- b. **Horizontal Alignment.** The existing horizontal alignment is adequate for crack seal.
- c. **Vertical Alignment.** The existing vertical alignment are adequate for crack seal.
- d. **Typical Sections and Surfacing.** No changes in Typical Section widths are planned for this project. Surfacing agreed a crack seal was appropriate preventative maintenance measure at this time.
- e. **Geotechnical Considerations.** Due to the nature of this project, Geotechnical recommendation are not necessary.
- f. **Hydraulics.** No hydraulics issues will be addressed with this project.
- g. **Bridges.** No bridge issues will be addressed with this project.
- h. **Traffic.** New pavement markings will be required. Signing will be replaced and updated to the most current MUTCD standards.
- i. **Pedestrian/Bicycle/ADA.** Existing pedestrian or bicycle facilities will not be impacted with this seal and cover project.
- j. **Miscellaneous Features.** There are no miscellaneous features on this project.
- k. **Context Sensitive Design Issues.** There are no Context Sensitive Design issues on this project.

### Other Projects

No other projects are planned at this time that will affect this crack seal project.

### Design Exceptions

No design exceptions are anticipated for this crack seal project.

### Right-of-Way

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

### Access Control

Access control will not be required for this crack seal project.

### Utilities/Railroads

There is no railroad or utility involvement with this crack seal project.

### Intelligent Transportation Systems (ITS) Features

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

## Preliminary Field Review/Scope of Work Report

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JCT MT 200 – Choteau  
Project Manager : Dustin Rouse

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### Survey

Estimated plan quantities will be determined from as-builts and maintenance crack inventory.

### 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 Statewide Programmatic Categorical Exclusion. The appropriate environmental documentation will be provided in order to comply with applicable regulations.

### Energy Savings/Eco-Friendly Considerations

No energy savings/eco-friendly considerations will be made on this crack seal project

### Experimental Features

No experimental features will be made on this crack seal project.

### 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.

### Preliminary Cost Estimate

The cost estimate includes: road work, traffic control, mobilization, contingencies, and CE. Estimated cost that has been programmed to construct this project is \$308,357.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	108,344		
Traffic Control	100,000		
<b>Subtotal</b>	<b>208,344</b>		
Mobilization (10%)	20,834		
<b>Subtotal</b>	<b>229,178</b>		
Contingencies (12%)	27,501		
<b>Total CN</b>	<b><u>\$282,348</u></b>	<b><u>\$44,560</u></b>	<b><u>\$ 378,344</u></b>
<b>CE (10%)</b>	<b><u>\$25,668</u></b>	<b><u>\$4,051</u></b>	<b><u>\$ 34,395</u></b>
<b>TOTAL CN+CE</b>	<b><u>\$308,016</u></b>	<b><u>\$ 48,611</u></b>	<b><u>\$ 412,739</u></b>

Cost per mile of the estimated constructional total of \$282,348 is \$7,826.

Note: Inflation is calculated in PPMS to the letting date. If there is no letting date, the project is

## Preliminary Field Review/Scope of Work Report

STPP 3-1(13)9

JCT MT 200 – Choteau

Project Manager : Dustin Rouse

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assumed to be inside the current TCP and is given a maximum of 5 years until letting. IDC is calculated at 13.35% as of FY 2011.

### **Ready Date**

The ready date for this project is November 1, 2010. This project was recently approved by the transportation commission and will be designed and ready as a 2011 backup project if needed. The target letting date is February 2012.

### **Site Map**

The project site map is attached.

Preliminary Field Review/Scope of Work Report

STPP 3-1(13)9

JCT MT 200 – Choteau

Project Manager : Dustin Rouse

**FEDERAL AID PROJECT STPP 3-1(31)9  
CRACK SEAL  
JCT MT 200 – CHOTEAU  
TETON & CASCADE COUNTY**

