



January 23, 2012

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  
STPS 408-1(7)0  
Fairfield-Jct US 287  
Control Number: 7643000

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,

Heidi Bruner, P.E. *Tom Martin for*  
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                          |
| Heidi Bruner, P.E.         | Environmental Services Bureau Engineering Section Supervisor |
| Eric Thunstrom             | Environmental Services Bureau Project Development Engineer   |
| Paul Ferry, P.E.           | Highways Engineer  |
| Robert Snyder, P.E.        | Road Design Area Engineer                                    |
| Kevin Christensen, P.E.    | Construction Engineer  |
| Suzy Price                 | Contract Plans Bureau Chief                                  |
| Tim Tilton                 | Contract Section Supervisor                                  |
| Nicole Pallister           | Fiscal Programming Section Supervisor                        |
| Tom Erving                 | Fiscal Programming Section                                   |
| Montana Legislative Branch | Environmental Quality Council (w/ PFR/SOW also)              |
| File                       | Environmental Services Bureau                                |

HB:ejt: S:\PROJECTS\GREAT-FALLS\7000-7999\7643\76430000ENCED001.doc

**(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 Number:** STPS 408-1(7)0      **Control No** 7643000      **Project Name:** Fairfield - JCT US 287

**Reference Post (Station):** 0.00      **To Reference Post (Station):** 19.587

**Applicant's Name:** Montana Department of Transportation      **Address:** PO Box 201001; Helena, MT 59620-1001

**Type of Proposed Pavement Preservation Activity:** Project 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 (Use attachments if necessary)
1. Does the proposed action require work in, across, and/or adjacent to a listed or proposed Wild or Scenic River? (See <a href="http://www.rivers.gov/wildriverslist.html">http://www.rivers.gov/wildriverslist.html</a> )	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2a. Are there any listed or candidate threatened or endangered species in the vicinity of the proposed activity?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unknown
2b. Will the proposed action adversely affect listed or candidate threatened or endangered species, or adversely modify critical habitat?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unknown
3. Will the proposed action have potential to affect water quality? If 'Yes', an environment-related permit or authorization may be required. If 'No', go to question 4.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3a. If the answer to question 3 is yes, is a Clean Water Act Section 402 permit (i.e., MPDES or NPDES permit) required? (Need for an MPDES or NPDES is generally triggered by a disturbance area equal to or greater than one acre.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
3b. Is the proposed project within an MS4 Permit Area? (See <a href="http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp.x">http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp.x</a> ). (Billings, Great Falls, and Missoula Urbanized areas, and Butte, Bozeman, and Helena)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Does the proposed project have impacts to wetlands, streams, or other water bodies? If 'No', go to question 5.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4a. If the answer to question 4 is 'Yes', is a Clean Water Act Section 404 permit authorization required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
4b. If the answer to question 3 or 4 is 'Yes', is a Stream Protection Act 124SPA consultation required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> N/A
5. Are solid wastes, hazardous materials or petroleum products likely to be encountered? (For example, project occurs in or adjacent to Superfund sites, known spill areas, underground storage tanks, or abandoned mines.) (See <a href="http://nris.mt.gov/deq/remsitequery/portal.aspx">http://nris.mt.gov/deq/remsitequery/portal.aspx</a> )	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is the proposed activity on and/or within approximately 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 type="checkbox"/>	<input checked="" type="checkbox"/> N/A
7. Is the proposed project in a "Class I Air Shed" or a nonattainment area? (See <a href="http://deq.mt.gov/AirQuality/Planning/AirNonattainment.mcp.x">http://deq.mt.gov/AirQuality/Planning/AirNonattainment.mcp.x</a> ) (Class I Air Sheds include the Northern Cheyenne, Flathead, and Fort Peck Reservations; Glacier and Yellowstone National Parks; Anaconda-Pintlar, Bob Marshall, Cabinet Mountains, Gates of the Mountains, Medicine Lake, Mission Mountain, Red Rock Lakes, Scapegoat, Selway-Bitterroot, and U.L Bend Wilderness Areas)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

**MASTER FILE COPY**

Checklist prepared by:

RJ Snyder  
Applicant

Project Design Engineer  
Title

12/18/2011  
Date

Approved by:

Environmental Services

ESBC  
Title

12/23/2011 enter a date.  
Date



**Memorandum**

To: Distribution

From: Paul Ferry P.E.  
 Highways Engineer

Date: 12/27/11

Subject: **STPS 408-1(7)0, STPS 40  
 Fairfield-JCT US 287  
 7643000  
 Project Work Type: 185- Crack Sealing**

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on 12/30/11. 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:**

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

**cc:**

- |  |             |
|--|-------------|
| Dawn Stratton, Fiscal Programming Section          | Master file |
| R.J. Snyder, Project Design Manager, G.F. District |             |
| Damian Krings, Road Design Engineer                |             |

**e-copies:**

- |   |   |
|---|---|
| Jim Walther, Engineering, Preconstruction Engineer                  | Jake Goettle, Construction Bureau – VA Engineer |
| Lesly Tribelhorn, Highways Design Engineer                          | Steve Prinzing, District Preconstruction        |
| Mark Goodman, Hydraulics Engineer                                   | Christie McOmer, District Projects Engineer     |
| Kurt Marcoux, District Hydraulics Engineer                          | Stanley Kuntz, G.F. District Materials Lab      |
| Bonnie Gundrum, Env. Resources Section Supervisor                   | Tony Strainer, G.F. District Maintenance Chief  |
| Paul Strum, G.F. District Biologist                                 | Phillip Inman, Utilities Engineering Manager    |
| Eric Thunstrum, District Project Development Engineer               | David Hoerning, R/W Engineering Manager         |
| Danielle Bolan, Traffic Engineer                                    | Greg Pizzini, Acquisition Manager               |
| James Combs, District Traffic Project Engineer                      | Joe Zody, R/W Access Management Section Manager |
| Kraig McLeod, Safety Engineer                                       | Paul Johnson, Project Analysis Bureau           |
| Stephanie Brandenberger, Bridge Area Engineer, Great Falls District | Sue Sillick, Research Section Supervisor        |
| Matt Strizich, Materials Engineer                                   | Wayne Noem, Secondary Roads Engineer            |
| Daniel Hill, Pavement Analysis Engineer                             | Alyce Fisher, Fiscal Programming                |
| Lee Grosch, District Geotechnical Manager                           | Dawn Stratton, Fiscal Programming               |
| Bryce Larsen, Supervisor, Photogrammetry & Survey                   | Scott Bunton, Engineering Cost Analyst          |
| Marty Beatty, Engineering Information Services                      |   |
| Paul Grant, Public Involvement Officer                              |   |
| Jean Riley, Planner   |   |



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

**Memorandum**

To: Paul Ferry, P.E.  
Highways Engineer

From: Damian Krings, P.E.  
Road Design Engineer

Date: 12/27/11

Subject: **STPS 408-1(7)0, STPS 40  
Fairfield-JCT US 287  
7643000  
Project Work Type: 185- Crack Sealing**

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

Approved Paul Ferry P. E. Date 12/30/11  
Paul Ferry P.E.  
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  
Master file

## Preliminary Field Review/Scope of Work Report

STPS 408-1(7)0, STPS 40 Fairfield-JCT US 287

Project Manager: RJ Snyder

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### **Introduction**

A field review was conducted on December 7, 2011 with the following personnel in attendance:

Steve Prinzing	District Preconstruction Manager	Preconstruction - G.F.
RJ Snyder	Design Project Manager	Road Design – Helena
Chuck Nemfakos	Civil Engineering Specialist	Road Design – Helena
Jake McNeely	Civil Engineering Specialist	Great Falls Construction
Steve McEvoy	Pavement Analysis	Materials - Helena
Jim Cornell	Signing	Traffic – Helena
Ronald Neckstad	Section Supervisor	Maintenance-Augusta
Dave Trusty	Section Supervisor	Maintenance- Sun River

### **Proposed Scope of Work**

The proposed project was nominated as a 2012 pavement preservation project. The following is the proposed scope of work.

- Crack sealing from R.P. 0.00 to R.P. 19.587

### **Purpose and Need**

The purpose and need of this project is to extend the life of the asphalt pavement and improve the safety and operational characteristics of the roadway.

### **Project Location and Limits**

The project is located in Teton County on Secondary Route 408 from RP 0.000 to RP 19.587. The route is functionally classified as a major collector. The project begins at town of Fairfield and continues west roughly 20 miles west of the town of Fairfield to JCT US 287. The length of the project is 19.6 miles. As-built stationing and reference posts increase from east to west.

### **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 mainly of a Traffic Control Plan (TCP). These issues are discussed in more detail under the Traffic Control and Public Involvement sections.

### **Physical Characteristics**

- a. This PTW traverses rolling terrain in a predominantly rural area.
- b. The adjacent land is used primarily for residential and agricultural use.
- c. The PTW is a 2-lane rural road with an existing pavement width of 24 feet.

## Preliminary Field Review/Scope of Work Report

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Project Manager: RJ Snyder

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d. Reconstruct/Rehab history data:

Ref Marker	Corridor Accum Mile	Section Length	Reconstruct Year	Improve Year	Last Project	Surf Type	Surf (in.)	Base (in.)
000+0.000	.000	.249	1953	1953	S 93 1	RMS	2.0	9.0
000+0.249	.249	4.78	1953	1997	RTS 408-1(1)	PMS	3.8	9.0
005+0.043	5.029	3.261	1955	1997	RTS 408-1(1)	PMS	3.8	10.0
008+0.319	8.290	5.322	1955	1997	RTS 408-1(1)	PMS	3.8	10.0
013+0.608	13.612	5.956	1957	1997	RTS 408-1(1)	PMS	3.8	10.0
019+0.587	19.568							

e. PvMS Data:

Beg MP	End MP	Pave Width	Ride Index	Rut Index	Alligator Cracking Index	Misc. Cracking Index
0	5.182	25	75.4 (Fair)	73.9 (Good)	98.3 (Good)	95.0 (Good)
5.182	13.765	24	80.4 (Good)	73.4 (Good)	98.5 (Good)	97.2 (Good)
13.765	19.771	24	81.6 (Good)	81.3 (Good)	99.7 (Good)	91.2 (Good)

f. PvMS Treatment Reports:

Beg MP	End MP	Construction 2011	Construction 2013	Maintenance 2011	Maintenance 2013
0	5.182	C_AC Crack Seal & Cover	C_AC Crack Seal & Cover	M_AC Crack Seal & Cover	M_AC Crack Seal & Cover
5.182	13.765	Do Nothing	C_AC Crack Seal & Cover	Do Nothing	M_AC Crack Seal & Cover
13.765	19.771	C_AC Crack Seal & Cover	C_AC Crack Seal & Cover	M_AC Crack Seal & Cover	M_AC Crack Seal & Cover

g. Crack Count Report:

Beg MP	End MP	New Cracks (ft.)	Existing Cracks (ft.)
0.0	8.6	11,328	8,986
8.6	19.587	Counts in progress	Counts in progress

**Traffic Data**

Due to the scope of the project traffic data will not be required.

## Preliminary Field Review/Scope of Work Report

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Project Manager: RJ Snyder

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### Crash Analysis

Due to the scope of the project a crash analysis will not be required.

### Major Design Features

- a. **Design Speed.** Design speed is not applicable on this project.
- b. **Geometrics.** Due to the scope of the project the existing horizontal and vertical alignment will be perpetuated.
- c. **Typical Sections and Surfacing.** Due to the scope of the project, there are no proposed changes to the typical sections. Therefore, typical sections will not be included with this crack sealing project.
- d. **Geotechnical Considerations.** No geotechnical issues will be addressed with this project.
- e. **Hydraulics.** No hydraulics issues will be addressed with this project.
- f. **Bridges.** There are two bridges that lie within this project. They are located at RP 1.13 (11.582 ft. long) and at RP 4.25 (22.86 ft. long). Due to the fact that this is a crack sealing project no work will be performed on the bridges.
- g. **Traffic.** New pavement markings will be required.
- h. **Pedestrian/Bicycle/ADA.** Existing pedestrian or bicycle facilities will not be impacted with this project.
- i. **Miscellaneous Features.** There are no guardrail improvements planned for this project. Rumble strips will be perpetuated on this project.
- j. **Context Sensitive Design Issues.** There are no Context Sensitive Design issues on this project.

### Other Projects

There are no other projects that will affect this project.

### Location Hydraulics Study Report

An LHSR will not be required for 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 anticipated railroad or utility involvement with this project.

### Intelligent Transportation Systems (ITS) Features

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

### Survey

Survey will not be required for this project. The crack inventory is being completed by maintenance.

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Project Manager: RJ Snyder

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### Public Involvement

Due to limited scope of this project, a Level A public involvement plan is appropriate. A news release will be distributed explaining the project and providing a department point of contact.

### 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 by Environmental Services in order to comply with applicable regulations.

### Energy Savings/Eco-Friendly Considerations

Due to the nature of the project, extending the life of the pavement is aimed directly at minimizing the footprint on the environment. This is accomplished by effectively postponing reconstruction projects through routine maintenance such as this project.

### Experimental Features

No experimental features are planned with this project.

### Traffic Control

A Traffic Management Plan (TMP) will consist of a Traffic Control Plan (TCP). 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.

### Project Management

MDT's Helena Road Design Great Falls Area will be responsible for the road design plans. The Project Design Manager will be RJ Snyder.

### Preliminary Cost Estimate

Cost Estimate:

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	73,600		
<b>Subtotal</b>	<b>73,600</b>		
Mobilization (10%)	7,360		
<b>Subtotal</b>	<b>80,960</b>		
Contingencies (8%)	6,477		
<b>Total CN</b>	<b><u>\$87,437</u></b>	<b><u>\$833</u></b>	<b><u>\$ 96,848</u></b>
<b>CE (10%)</b>	<b><u>\$8,744</u></b>	<b><u>\$83</u></b>	<b><u>\$ 9,676</u></b>
<b>TOTAL CN+CE</b>	<b><u>\$96,181</u></b>	<b><u>\$ 916</u></b>	<b><u>\$ 106,524</u></b>

Note: Inflation is calculated in PPMS to the letting date. 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 9.64% as of FY 2012.

# Preliminary Field Review/Scope of Work Report

STPS 408-1(7)0, STPS 40 Fairfield-JCT US 287

Project Manager: RJ Snyder

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## Ready Date

The ready date is January 26, 2012 for an anticipated let date of April 2012.

## Site Map

The project site map is attached.

