



June 7, 2011

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 24-3(42)68  
West of Lincoln-East  
Control Number: 7455000

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.  
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
- Dustin Rouse, P.E.                     Road Design Area Engineer
- Kevin Christensen, P.E.               Construction Engineer
- Suzy Price                                Contract Plans Bureau Chief
- Dawn Stratton                         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\7455\7455000ENCED001.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: NH 24-3(42)68 Control No.: 7455000 Project Name: West of Lincoln - East

Reference Post (Station): 68.7 To Reference Post (Station): 75.8

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

Type of Proposed Pavement Preservation Activity:

Type of Proposed Pavement Preservation Activity: Work Type 185-RESURFACING-CRACK SEALING

Table with 3 columns: Impact Questions, Yes/No, and Comment. Contains 13 rows of questions regarding environmental impacts like Wild/Scenic Rivers, species, water quality, wetlands, and air quality.

MASTER FILE COPY

Checklist prepared by:

Dustin Rouse Applicant

Project Design Engineer Title

5/12/2011 Date

Approved by:

Environmental Services

ENVIRONMENTAL ENGINEERING SECTION SUPERVISOR Title

Click here to enter a date. Date



**Memorandum**

To: Distribution

From: Paul R. Ferry, P.E. *LT for PRF*  
 Highways Engineer

Date: May 20, 2011

Subject: NH 24-3(42)68  
 West of Lincoln - East  
 UPN 7455000  
 Work Type: 185-Resurfacing- Crack Seal

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on May 12, 2011. 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 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                            |
| Acting, Traffic and Safety Engineer             | Jon Swartz, Maintenance Administrator                        |
| Robert Stapley, Right-of-Way Bureau Chief       |  |
| Paul Ferry, Highways Engineer                   |  |

**cc:**

- |   |             |
|---|-------------|
| Dawn Stratton, Fiscal Programming Section         | Master file |
| Dustin Rouse, Project Design Manager, GF District |             |
| Damian Krings, Road Design Engineer               |             |

**e-copies:**

- |   |  |
|---|--|
| Jim Walther, Engineering, Preconstruction Engineer      | Jean Riley, Planner  |
| Lesly Tribelhorn, Highways Design Engineer              | Jake Goettle, Construction Bureau – VA Engineer              |
| Mark Goodman, Hydraulics Engineer                       | Steve Prinzing, District Preconstruction                     |
| 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                          | Dave Hand, GF District Maintenance Chief                     |
| Eric Thunstrom, District Project Development Engineer   | Walt Scott, R/W Utilities Section Supervisor                 |
| Bill Rabey, Environmental Services                      | David Hoerning, R/W Engineering Manager                      |
| Ivan Ulberg, District Traffic Project Engineer          | Greg Pizzini, Acquisition Manager                            |
| Kraig McLeod, 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                 | Alice Flesch, ADA Coordinator                                |
| Lee Grosch, District Geotechnical Manager               | Mark Keeffe, Bicycle/Pedestrian Coordinator                  |
| Bryce Larsen, Supervisor, Photogrammetry & Survey       | Becky Duke, Traffic Data Collection Section Supervisor (WIM) |
| Marty Beatty, Engineering Information Services          | Alyce Fisher, Fiscal Programming                             |
| Paul Grant, Public Involvement Officer                  | Gary Engman, Great Falls Maintenance                         |
| Dawn Stratton, Fiscal Programming                       | Gerry Brown, Construction Engineering Services               |



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

**Memorandum**

To: Paul R. Ferry, P.E.  
Highways Engineer

From: Damian Krings, P.E. [DMK](#)  
Road Design Engineer

Date: May 20, 2011

Subject: NH 24-3(42)68  
West of Lincoln - East  
UPN 7455000  
Work Type: 185-Resurfacing- Crack Seal

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

Approved [Lesly Tribelhorn for PRF](#) Date [May 20, 2011](#)  
Paul R 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

NH 24-3(42)68

Project Manager : Dustin Rouse

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### Introduction

This report was developed from information taken from the preliminary field review held on April 15, 2011. A preliminary field review was held with the following personnel in attendance:

Steve Prinzing	District Preconstruction	MDT - Great Falls
John Wilson	Maintenance	MDT - Great Falls
Gary Engman	Maintenance	MDT - Great Falls
Chris Burggraff	Maintenance	MDT - Great Falls
Gerry Brown	Construction	MDT - Lewistown
Scott Bunton	Road Design	MDT - Helena
Richard Savage	Road Design	MDT - Helena
James Dunbar	Road Design	MDT - Helena
Mathew Mogstad	Road Design	MDT - Helena
Eric Thunstrom	Environmental	MDT - Helena
Steve McEvoy	Pavement Analysis	MDT - Helena

### Proposed Scope of Work

The proposed project has been nominated as 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. The project is located in Lewis & Clark county.
- b. The project is on Primary 24 and begins at RP 67.709 and runs east to RP 75.760. The project area proceeds through the town of Lincoln from RP 70.680 to RP 72.210.
- c. The project is functionally classified as a Principal Arterial.
- d. The project is 8.049 miles.
- e. According to the Bridge Log there are two box culverts located in the project area. The first is located at R.P. 69.500 and the second is located at R.P. 69.719.
- f. At the end of this project (R.P. 75.760), the project, Lincoln – East, NH 24-3(25)76, UPN 4322, is programmed for reconstruction with a current Letting Date of January 25, 2013.
- g. The crack seal project W of Rogers Pass – JCT S-434, NH 24-3(44)83, UPN 7456000, is scheduled for the same letting date in the 2011 Tentative Construction Program.
- h. The as-built project numbers are F-267D(1), NH 24-3(20)68 and NH 24-3(29)68
- i. Project runs west to east.

### 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 Traffic Management Plan (TMP) consisting of a Traffic Control Plan (TCP).

### Physical Characteristics

- a. The project was constructed under as-built project F-267-D(1) completed in 1992 and overlaid in 2006 with 0.15' PMS
- b. The pavement width varies from 28.8 feet to 32.0 feet with two driving lanes.

## Preliminary Field Review/Scope of Work Report

- c. The project was overlaid in 2006 with 0.20' Plant mix surfacing. The road log lists 5" plant mix on top of 18" base.
- d. The general terrain of the area is level with rolling terrain at the west and east ends of the town of Lincoln. The project is adjacent to residential, forested and pasture land.
- e. The project is rural from RP 67.709 to RP 70.680 and RP 72.210 to RP 75.760. The project is urban from RP 70.680 to RP 72.210
- f. The horizontal curves and vertical curves within the project limits all meet current design standards.
- g. According to the Bridge Log there are two culverts located in the project area. The first is located at R.P. 69.500 and the second is located at R.P. 69.719.
- h. **PVMS Data:** The recommended treatment in the Pavement Analysis Section's 2010 Pavement Conditions 2011/2013 Pavement Treatment Report is AC Crack Seal for both maintenance and construction activities. The indices and condition levels for the 2010 survey year are given in the following table:

PVMS INDICES	
Ride	86.3 (Good)
Rut	84.1 (Good)
Alligator Cracking	100.0 (Good)
Miscellaneous Cracking	94.3 (Good)

### Traffic Data

Due to the scope of work as a crack seal project, traffic data is not required.

### Crash Analysis

Due to the scope of work as a crack seal project, crash analysis is not required

### Major Design Features

- a. **Design Speed.** Design speed is not applicable on this project.
- b. **Horizontal Alignment.** The existing horizontal alignment will be utilized throughout this project.
- c. **Vertical Alignment.** The existing vertical alignment will be utilized throughout this project.
- d. **Typical Sections and Surfacing.** Due to the nature of the project as a crack seal, no changes are proposed to the existing surfacing or typical sections. Details for crack sealing will be included in the plans with quantities.
- e. **Geotechnical Considerations.** No Geotechnical considerations are anticipated on this project.
- f. **Hydraulics.** No Hydraulic considerations are anticipated on this project.
- g. **Bridges.** No bridge issues will be addressed with this project.
- h. **Traffic.** No traffic issues will be addressed with this project. Maintenance will be placing new pavement markings following the completion of this project.
- i. **Pedestrian/Bicycle/ADA.** No impacts to pedestrian facilities are anticipated.
- j. **Miscellaneous Features.** A liquid blotter will be used through the town of Lincoln in place of paper blotter.
- k. **Context Sensitive Design Issues.** There are no context sensitive design issues associated with this project.

## Preliminary Field Review/Scope of Work Report

NH 24-3(42)68

Project Manager : Dustin Rouse

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### **Other Projects**

Another crack seal project W of Rogers Pass – JCT 284, NH 24-3(45)83 has the same proposed ready date of September 1, 2011 in the 2011 Tentative Construction Program.

The reconstruction project starting at the end of this project, Lincoln – East, NH 24-3(25)76 has a letting date January 25, 2013.

### **Design Exceptions**

There are no design exceptions on this pavement preservation project.

### **Right-of-Way**

No R/W involvement is required on this project.

### **Access Control**

There will be no modification to existing Access Control on this project.

### **Utilities/Railroads**

There are no railroad facilities within the vicinity of this project.

Utilities will not be impacted with this project.

### **Intelligent Transportation Systems (ITS) Features**

There are no ITS features on this pavement preservation project.

### **Survey**

An updated crack count has been requested from the District.

### **Public Involvement**

Due to the limited scope of the 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**

This project meets the criteria for the Statewide Programmatic Categorical Exclusion. No apparent significant environmental concerns or issues have been identified.

### **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**

There are no experimental features planned on this project.

### **Traffic Control**

Due to the nature of the project as a mobile maintenance project, traffic will be shifted to one lane around the construction zone. Appropriate traffic control devices and signing will be used throughout the project in accordance with the *Manual on Uniform Traffic Control Devices*. The Traffic Management Plan (TMP) will consist of a Traffic Control Plan (TCP) only.

## Preliminary Field Review/Scope of Work Report

NH 24-3(42)68

Project Manager : Dustin Rouse

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### Project Management

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

### Preliminary Cost Estimate

The 2011 Tentative Construction Program shows \$45,000 in CN funding available for this project.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	\$30,300		
Traffic Control	\$15,000		
<b>Subtotal</b>	<b>\$45,300</b>		
Mobilization (10%)	\$4,530		
<b>Subtotal</b>	<b>\$49,830</b>		
Contingencies (8%)	\$3,990		
<b>Total CN</b>	<b><u>\$53,820</u></b>		<b><u>\$62,800</u></b>
<b>CE (10%)</b>	<b><u>\$5,380</u></b>		<b><u>\$6,280</u></b>
<b>TOTAL CN+CE</b>	<b><u>\$59,200</u></b>		<b><u>\$69,100</u></b>

No inflation factor is used in the cost estimate as this pavement preservation project is scheduled for letting within one year.

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 13.35% as of FY 2011.

### Ready Date

The Ready Date for this project is September 1, 2011. The Letting Date has not been established.

### Site Map

The project site map is attached.

# Preliminary Field Review/Scope of Work Report

NH 24-3(42)68

Project Manager : Dustin Rouse

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## FEDERAL AID PROJECT NH 24-3(43)68 CRACK SEAL WEST OF LINCOLN - EAST LEWIS & CLARK COUNTY

