



June 6, 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(44)83
W of Rogers Pass-Jct S-434
Control Number: 7456000

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 |

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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 24-3(44)83 ID: _____ Project Name: W OF ROGERS PASS -JCT S-434
 Reference Post (Station) 83.105 to Reference Post (Station) 100.279
 Applicant's Name: Montana Department of Transportation Address: PO Box 201001; Helena, MT 59620-1001
 Type of Proposed Pavement Preservation Activity: CRACK SEAL

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 http://www.rivers.gov/wildriverslist.html) | <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 checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> Unknown GRIZZLY BEAR |
| 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"/> | <input 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 http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp.x). (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 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 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 http://nris.mt.gov/deq/remsitequery/portal.aspx) | <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 type="checkbox"/> N/A |
| 7. Is the proposed project in a "Class I Air Shed" or a nonattainment area? (See http://deq.mt.gov/AirQuality/Planning/AirNonattainment.mcp.x) (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:

Dustin Rouse

Applicant

Project Design Engineer

Title

4/28/2011

Date

Approved by:

Environmental Services

ENVIRONMENTAL SERVICES
SECTION SUPERVISOR

Title

JUN - 6 2011
Click here to enter a date.

Date

(When any of the above questions are checked "Yes")



Memorandum

To: Distribution

From: Paul R. Ferry, PE . *LT for PF*
 Highways Engineer

Date: May 20, 2011

Subject: NH 24-3(44)83
 W of Rogers Pass – JCT S-434
 UPN 7456000
 Work Type 185 Resurfacing – Crack Seal

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on May 20th. 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 | 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 | |
| Dustin Rouse, Project Design Manager, G F District | |
| Damian Krings, Road Design Engineer | Master file |

e-copies:

- | | |
|---|---|
| Jim Walther, Engineering, Preconstruction Engineer | Jake Goettle, Construction Bureau – VA Engineer |
| Lesly Tribelhorn, Highways Design Engineer | Stephen Prinzing, District Preconstruction |
| Mark Goodman, Hydraulics Engineer | Christie McOmber, District Projects Engineer |
| Kurt Marcoux, District Hydraulics Engineer | Stanley Kuntz, District Materials Lab |
| Bonnie Gundrum, Env. Resources Section Supervisor | Tony Strainer, District Maintenance Chief |
| Paul Sturm, District Biologist | Walt Scott, R/W Utilities Section Supervisor |
| Eric Thunstrom, District Project Development Engineer | David Hoerning, R/W Engineering Manager |
| Danielle Bolan, Traffic Engineer | Greg Pizzini, Acquisition Manager |
| Ivan Ulberg, District Traffic Project Engineer | Joe Zody, R/W Access Management Section Manager |
| Kraig McLeod, Safety Engineer | Paul Johnson, Project Analysis Bureau |
| S Brandenberger, Bridge Area Engineer, G Falls District | Sue Sillick, Research Section Supervisor |
| Matt Strizich, Materials Engineer | Gary Engman, Great falls Maintenance |
| Daniel Hill, Pavement Analysis Engineer | Gerry Brown, Construction Engineering Services |
| Lee Grosch, District Geotechnical Manager | John Wilson, Great falls Maintenance |
| Bryce Larsen, Supervisor, Photogrammetry & Survey | Dawn Stratton, Fiscal Programming |
| Marty Beatty, Engineering Information Services | Alyce Fisher, Fiscal Programming |
| Paul Grant, Public Involvement Officer | |
| Jean Riley, Planner | |

Preliminary Field Review/Scope of Work Report

NH 24-3(44)83

Project Manager : Dustin Rouse

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Introduction

This report was developed from information taken from the preliminary field review conducted on April 15, 2011. The following people were 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

This project was nominated as a preventative maintenance crack seal.

Upgrading guardrail terminal sections to current standards will also be included in the proposed scope of work.

Purpose and Need

The intent of this project is to extend the life of the existing plant mix surface.

Project Location and Limits

This project is located in Lewis & Clark County on N-24/MT 200. It begins at RP 83.105, and proceeds northeasterly for 17.2 miles, to RP 100.279.

The project begins immediately east of the intersection of N-24/MT 200 and S- 279 , and proceeds to a point immediately west of the intersection of N-24/MT 200 and S- 434.

The project begins at the end of programmed reconstruction project Lincoln East, NH 24-3(25)76, which has tentative ready date October 1, 2012.

The As-Built project numbers are F 24-3(19)83, NH 24-3(27)(83), NH 24-3(21)91, NH 24-3(34)91.

The direction of the proposed project is west to east.

The route is functionally classified as a Principal Arterial

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

The project is a two lane rural roadway that traverses rolling and mountainous terrain.

The middle portion of the project is within the boundaries of the Helena National Forest and crosses the continental divide. Pasture land and some residential land adjoin the roadway on the eastern portion of the project. Widths vary from 28 to 30 ft.

Approximately the first half of the project, from the beginning to RP 91.2 underwent a major

Preliminary Field Review/Scope of Work Report

NH 24-3(44)83

Project Manager : Dustin Rouse

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rehabilitation in 1991 under F 24-3(19)83 and overlaid in 2005 under NH 24-3(27)83. The width of this section is 28ft. The second half was last reconstructed in 1995 under F 24-3(21)91 and overlaid in 2009 under NH 24-3(34)91 with widths of 28 and 30 ft. Pavement thicknesses on the project vary from 4.2 in to 11.37 in.

PvMS Data: The recommended treatment in the Pavement Analysis Section's 2010 Pavement Conditions 2011 & 2013 Pavement Treatment Reports are:
2011 AC Crack Seal & Cover for both maintenance and construction activities.
2013 Thin Overlay for both maintenance and construction activities.
The indices and condition levels for the 2010 survey year are given in the following table:

| PVMS INDICES RP 82.42 TO RP 91.30 | |
|---|-------------|
| Ride | 83.0(Good) |
| Rut | 86.6(Good) |
| Alligator Cracking | 93.8(Good) |
| Miscellaneous Cracking | 72.2(Fair) |
| PVMS INDICES RP 91.30 TO RP 100.54 | |
| Ride | 85.0(Good) |
| Rut | 84.1(Good) |
| Alligator Cracking | 100.0(Good) |
| Miscellaneous Cracking | 98.1(Good) |

Traffic Data

Due to the nature of the project as a crack seal project, Traffic data is not required.

Crash Analysis

Due to the nature of the project as a crack seal project, Crash Analysis not required.

Major Design Features

Design Speed. Design speed is not applicable on this project.

Horizontal and Vertical Alignment. The horizontal and vertical alignments will be perpetuated with this project.

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.

Geotechnical Considerations. No Geotechnical considerations are anticipated on this project.

Hydraulics. No Hydraulic considerations are anticipated on this project.

Bridges. There is one bridge within the project limits at RP 97.99. The bridge deck was treated with HMWM in 2008.

Traffic. There is no Traffic involvement on this project. Maintenance will be placing new pavement markings following the completion of the project.

Preliminary Field Review/Scope of Work Report

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Pedestrian/Bicycle/ADA. No impacts to pedestrian facilities are anticipated.

Miscellaneous Features. During the review the decision was made to upgrade existing guardrail terminal sections to current standards. There are twenty four end sections to be upgraded to the Optional Terminal Section. Existing conditions at the guardrail ends do not require slope flattening quantities.

Context Sensitive Design Issues. There are no context sensitive design issues associated with this project.

Other Projects

Another crack seal project, West of Lincoln East, NH -3(42)68, between RP 67.71 to RP 75.68 on N-24(MT 200), shares the same Ready Date and proposed Letting Date in the 2011 Tentative Construction Program.

Design Exceptions

There are no design exceptions on this 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.

New guardrail is proposed in same location as existing; therefore, utility conflicts are not anticipated with this project.

Intelligent Transportation Systems (ITS) Features

No ITS features are associated with this project.

Survey

An updated crack count has been requested from the District.

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

This project meets the criteria for a 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.

Preliminary Field Review/Scope of Work Report

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Experimental Features

No experimental features are planned with 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*.

Traffic issues that require special consideration include the steep grades along Rogers Pass and the slow moving trucks and recreational vehicles that will be using the roadway.

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

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 \$98,500 in CN funding available for this project.

| | Estimated cost | Inflation (INF) (from PPMS) | TOTAL costs w/INF + IDC (from PPMS) |
|--------------------|-------------------|--------------------------------|---|
| Road Work | 101,000 | | |
| Traffic Control | 30,000 | | |
| Subtotal | 131,000 | | |
| Mobilization (10%) | 13,000 | | |
| Subtotal | 144,000 | | |
| Contingencies (8%) | 12,000 | | |
| Total CN | \$ 156,000 | | \$ 182,130 |
| CE (10%) | \$ 16,000 | | \$ 18,700 |
| TOTAL CN+CE | \$ 172,000 | | \$200,830 |

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.

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Project Manager : Dustin Rouse

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