



January 26, 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
NH 1-5(103)308
Lothair-Hill Co Line
Control Number: 7629000

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
- 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\7629\7629000ENCED001.doc

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

Applicant cannot be authorized to proceed with the proposed work until ALL of the conditions on 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 1-5(103)308 Control No 7629000 Project Name: Lothair - Hill Co Line
 Reference Post (Station): 308.161 To Reference Post (Station): ~~6332.811~~ 332.611
 Applicant's Name: Montana Department of Transportation Address: PO Box 201001; Helena, MT 59620-1001
 Type of Proposed Pavement Preservation Activity: CRACK SEAL, 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).		
	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/wildriverlist.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 type="checkbox"/>	<input checked="" type="checkbox"/>	Unknown P.S. 1/25/12
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 http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp). (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 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 checked="" 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) (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

ENVIRONMENTAL ENGINEERING SECTION SUPERVISOR

12/30/2011

Date

Approved by:

Environmental Services

Title

Click here to enter a date.

Date



Memorandum

To: Distribution

From: Paul Ferry, P.E.
 Highways Engineer

Date: 12/29/11

Subject: **NH 1-5(103)308**
Lothair - Hill County Line
7629000
Project Work Type: Resurfacing 183 – Seal & Cover

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on _____. 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 |
| Roy Peterson, Traffic and Safety Engineer | Jake Goettle, Construction Engineering Services Bureau |
| Robert Stapley, Right-of-Way Bureau Chief | Matt Strizich, Materials Engineer |
| | Jon Swartz, Maintenance Administrator |

cc:

- | | |
|--|-------------|
| Dawn Stratton, Fiscal Programming Section | |
| R.J. Snyder, 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 | Steve Prinzing, District Preconstruction |
| Mark Goodman, Hydraulics Engineer | Christie McOmber, 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 | Paul Grant, Public Involvement Officer |
| Daniel Hill, Pavement Analysis Engineer | Wayne Noem, Secondary Roads Engineer |
| Lee Grosch, District Geotechnical Manager | Alyce Fisher, Fiscal Programming |
| Bryce Larsen, Supervisor, Photogrammetry & Survey | Jean Riley, Planner |
| Marty Beatty, Engineering Information Services | Dawn Stratton, Fiscal Programming |
| | Scott Bunton, Engineering Cost Analyst |



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: 12/29/11

Subject: **NH 1-5(103)308**
Lothair - Hill County Line
7629000
Project Work Type: 183 Resurfacing – Seal & Cover

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

Approved _____ Date _____
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

Preliminary Field Review/Scope of Work Report

NH 1-5(103)308

Project Manager: RJ Snyder

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Introduction

A field review was conducted on October 12, 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	Designer	Road Design – Helena
Steve McEvoy	Pavement Analysis	Materials - Helena
Jim Cornell	Signing	Traffic - Helena

Proposed Scope of Work

The proposed project was nominated as a 2013 pavement preservation project. The following is the proposed scope of work.

- Crack sealing and full width seal and cover from R.P. 308.161 to 332.611.
- New pavement markings

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 Liberty County on US 2 (N 1) from RP 308.161 to RP 332.611. The project begins just west of the town of Lothair and continues east through the town of Chester before ending just east of the town of Joplin at the Liberty/Hill County line. The length of the project is 24.45 miles. As-built stationing and reference posts increase from 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 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

- This PTW traverses level terrain in a predominantly rural area.
- The adjacent land is used primarily for residential and agricultural use.
- The existing pavement width varies from 24 feet to 46 feet.
- The roadway was reconstructed from RP 308.16 to 321.41 in 2003 as part of NH1-5(5)308 and from RP 321.41 to 333.62 in 2004 with NH 1-5(22)321.
- PvMS Data:

Beg MP	End MP	Pave Width	Ride Index	Rut Index	Alligator Cracking Index	Misc. Cracking Index
307.95	321.4	26	84.6 (Good)	62.8 (Fair)	99.2 (Good)	99.2 (Good)
321.4	332.615	36.19	83.2 (Good)	68.4 (Good)	76.7 (Fair)	98.9 (Good)

Preliminary Field Review/Scope of Work Report

NH 1-5(103)308

Project Manager: RJ Snyder

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f. PvMS Treatment Reports:

Beg MP	End MP	Construction 2011	Construction 2013	Maintenance 2011	Maintenance 2013
307.95	321.4	AC Crack Seal & Cover			
321.4	332.615	C_AC Thin Overlay	C_AC Thin Overlay	C_AC Thin Overlay	C_AC Thin Overlay

During the PFR it was determined that a crack seal and cover would be the appropriate treatment for the entire project.

- g. The road log lists pavement thickness of 3.0" to 3.5".
- h. The road log lists base thickness of 14.4" to 15.0".

Traffic Data

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

Crash Analysis

Due to the scope of the project traffic data 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 used as is.
- c. **Typical Sections and Surfacing.** Due to the scope of the project there are no proposed changes to the typical sections.
- 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 no bridges within the project limits.
- 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. The rumble strips should still be functional after the seal and cover is applied.
- j. **Context Sensitive Design Issues.** There are no Context Sensitive Design issues on this project.

Other Projects

Currently there are no other projects planned adjacent to 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.

Preliminary Field Review/Scope of Work Report

NH 1-5(103)308

Project Manager: RJ Snyder

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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 or ATR sites located on the proposed project.

Survey

Survey will not be required for this project. Crack counts were provided by maintenance and are 55,720' of previously filled cracks and 82,900' of new cracks.

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 Field Review/Scope of Work Report

NH 1-5(103)308

Project Manager: RJ Snyder

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Preliminary Cost Estimate

Cost Estimate:

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	\$1,247,976		
Subtotal			
Mobilization (10%)	\$124,798		
Subtotal	\$1,372,774		
Contingencies (8%)	\$109,822		
Total CN	<u>\$1,482,595</u>	<u>\$17,646</u>	<u>\$ 1,644,864</u>
CE (10%)	<u>\$148,260</u>	<u>\$1,764</u>	<u>\$ 164,486</u>
TOTAL CN+CE	<u>\$1,630,855</u>	<u>\$ 19,410</u>	<u>\$ 1,809,350</u>

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.

Ready Date

The project has a ready date of March 2012 and a letting date of May 24, 2012.

Preliminary Field Review/Scope of Work Report

NH 1-5(103)308

Project Manager: RJ Snyder

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Site Map

The project site map is attached.

