



April 6, 2012

Alan Woodmansey, P.E.
Great Falls and Billings Districts Operations Engineer
Federal Highway Administration (FHWA)
585 Shepard Way
Helena MT 59602

MASTER FILE
COPY

Subject: Statewide Programmatic Categorical Exclusion for Pavement Preservation Projects
STPP 3-2(75)28
N Fairfield-Choteau
Control Number: 7639000

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
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

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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 Number: STPP 3-2(75)28 Control No 7639000 Project Name: N Fairfield-Choteau
 Reference Post (Station): 28.355 To Reference Post (Station): 40.766
 Applicant's Name: Montana Department of Transportation Address: PO Box 201001; Helena, MT 59620-1001
 Type of Proposed Pavement Preservation Activity: 180 - Resurfacing - Asphalt (Thin Lift <= 60.00MM)

IMPACTS ON THE PHYSICAL ENVIRONMENT (TO BE COMPLETED BY APPLICANT)

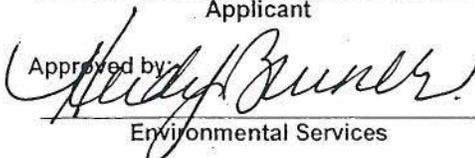
Impact Questions	[Y/N] There are Potential Impacts, or Item Requires Documentation, Evaluation, Mitigation Measures, and/or (a) Permit(s).		
	Yes	No	Comment (Use attachments if necessary)
1. Does the proposed action require work in, across, and/or adjacent to a listed or proposed Wild or Scenic River? (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 checked="" type="checkbox"/>	<input type="checkbox"/> Unknown <i>grizzly bear, Sprague's Pipit</i>
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 type="checkbox"/> N/A MASTER FILE
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"/>	COPY
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"/>	

Checklist prepared by:

RJ Snyder
Applicant

Project Design Engineer
Title

3/5/2012
Date

Approved by: 
Environmental Services

ENVIRONMENTAL ENGINEERING
SECTION SUPERVISOR
Title

4/9/12
Click here to enter a date.
Date



Memorandum

To: Distribution

From: Paul R. Ferry, PE PRF
 Highways Engineer

Date: March 5, 2012

Subject: STPP 3-2(75)28
 N FAIRFIELD - CHOTEAU
 7639000
 Work Type: 180 – Resurfacing-Asphalt (Thin Lift <= 60.00MM)

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:

- | | |
|---|--|
| 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 |
| Roy Petersen, 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 | Teton County Commissioners |
| RJ Snyder, Project Design Manager, GF District | 1 Main Ave S# 105 |
| Damian Krings, Road Design Engineer | Choteau, MT 594227 |

e-copies:

- | | |
|---|--|
| Jim Walther, Engineering, Preconstruction Engineer | Scott Bunton, 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 McOmber, District Projects Engineer |
| Bonnie Gundrum, Env. Resources Section Supervisor | Stan Kuntz, GF District Materials Lab |
| Paul Sturm, District Biologist | Tony Strainer, GF District Maintenance Chief |
| Eric Thunstrom, District Project Development Engineer | Phil Inman, 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 |
| 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 | Wayne Noem, Secondary Roads Engineer |
| Marty Beatty, Engineering Information Services | Becky Duke, Traffic Data Collection Section Supervisor (WIM) |
| Paul Grant, Public Involvement Officer | |
| Jean Riley, Planner | |



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

Memorandum

To: Paul R. Ferry, PE
Highways Engineer

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

Date: March 5, 2012

Subject: STPP 3-2(75)28
N FAIRFIELD - CHOTEAU
7639000
Work Type: 180 – Resurfacing-Asphalt (Thin Lift <= 60.00MM)

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

Approved _____ Date _____
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

STPP 3-2(75)28
N FAIRFIELD - CHOTEAU
Project Manager : RJ Snyder

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Introduction

This report was developed from information taken from the preliminary field review conducted on January 13, 2012. The following people were in attendance:

Steve Prinzing	D.E.S.E.	MDT - Great Falls
RJ Snyder	Road Design, Project Manager	MDT - Helena
Lotse Townsend	Road Design	MDT - Helena
Steve McEvoy	Pavement Analysis	MDT - Helena
James Cornell	Traffic Signing	MDT - Helena
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 seal and cover in an effort to prolong the existing pavement life. The pavement surface of the northbound lane from the north abutment of the Teton River Bridge (RP 39.45) to the end of the project (RP 40.76) displayed strong evidence of rutting and longitudinal cracking, particularly in the inside wheel path. It was decided that this section will be milled and overlaid.

Purpose and Need

The purpose of this project is to improve the safety and extend the functional condition of the road.

Project Location and Limits

- This project is located in Teton County on State Primary Route 3/US 89. The project is approximately 4.4 miles from Fairfield, beginning at RP 28.355 and extends northwest for 12.41 miles, ending inside the Choteau city limits at RP 40.766. Choteau city limits begin at RP 40.466.
- The route is functionally classified as a minor arterial.
- According to the Montana road log the last reconstruct on this route, between RP 24.5 thru RP 40.7, was in 1984 under project number F3-2(10). These plans were not available.
- Adjacent project number STPP 3-1(15)18 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 increases from north to south while the reference posts increase 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.

Physical Characteristics

- The project is located in a rural environment with rolling terrain. The existing pavement width is 25 feet.
- The properties adjacent to the project primarily consist of farm land and grazing.

Preliminary Field Review/Scope of Work Report

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N FAIRFIELD - CHOTEAU

Project Manager : RJ Snyder

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- c. 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. An overlay, seal & cover was last done in 1998.

d. PvMS Index Numbers & Recommended Treatments

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

2010 SURVEY YEAR	RP 28.20 TO RP 34.22	RP 34.22 TO RP 40.77
Ride	79.1 (Fair)	76.2
Rut	72.6 (Good)	75.8
Alligator Cracking	96.8 (Good)	94.6
Miscellaneous Cracking	98.7 (Fair)	98.3
Recommendation (Construction)	Do Nothing	Do Nothing
Recommendation (Maintenance)	Do Nothing	Do Nothing

- f. There are 5 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
P00003034+05401	Stockpass	63'	12'	1940	Not Deficient
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

g. Traffic Data

The Traffic Data Collection Section provided the follow traffic data:

Table 2. Traffic Data

2012 ADT = 1,320 (Present)
2013 ADT = 1,330 (Letting Date)
2033 ADT = 1,630 (Design Year)
DHV = 310
T = 4.4%
ESAL = 34 (Daily)
Growth Rate = 1.0% (Annual)

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h. Crash Analysis

An accident analysis was completed for State Primary Route 3, from RP 28.3 to RP 40.8, for the dates January 1, 2006 through December 31, 2010.

The following table shows how the data in the study area compared to the statewide averages:

	Statewide Average for Rural Non-Interstate NHS (2004-2008)	Study Area
All Vehicles Accident Rate:	1.18	1.33
All Vehicles Severity Index:	2.29	1.89
All Vehicle Severity Rate:	2.71	2.51
Total Recorded Accidents		38

Variations from Average Occurrences:

No major variances from statewide average statistics for Rural State Primary

Crash Clusters or Safety Projects:

The area from RP 28.5 to RP 29.3 was identified as a cluster area in 2008. The trend was wild animal – vehicle collisions. No recommendation was made.

The area from RP 30.5 to RP 32.0 was evaluated in 2011. There was no identified addressable trend and no recommendations for improvement were made.

Remarks & Recommendations:

The following is a summary of the crashes within the study area:

- 2 fatal crashes occurred on this roadway.
 - One fatal was a single vehicle that failed to negotiate a curve and overturned in the ditch at night.
 - One fatal involved a motorcycle that had a tire blow. The driver lost control, went off the road, and into Freezeout Lake.
- 38 crashes were single vehicle crashes
- 16 crashes involved a wild animal
- 10 crashes resulted in an overturn

The Safety Engineering Section checked reported crashes for the first 6-months of 2011. There have been 2 reported crashes. Both were single vehicle run-off-the road crashes in which one resulted in an overturn.

The crash analysis request stated the breakaway cable terminal (BCT) guardrail end sections will be upgraded with this project. The Safety Engineering Section supports this recommendation.

Major Design Features

- a. **Design Speed.** Design speed is not an applicable design criterion since this project is a seal & cover with a small section of mill and overlay.
- b. **Horizontal Alignment.** The existing horizontal alignment is adequate for seal & cover.
- c. **Vertical Alignment.** The existing vertical alignment is adequate for seal & cover.
- d. **Typical Sections and Surfacing.** No changes in Typical Section widths are planned for

Preliminary Field Review/Scope of Work Report

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N FAIRFIELD - CHOTEAU
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- this project. A seal and cover is planned for the full length of the project with a mill and fill on the northbound lane between RP 39.5 to RP 40.8.
- e. **Geotechnical Considerations.** Due to the nature of this project, a geotechnical recommendation is not necessary.
 - f. **Hydraulics.** No hydraulics issues will be addressed with this project.
 - a. **Bridges.** No bridge issues will be addressed with this project.
 - g. **Traffic.** New pavement markings will be required. Signing will be replaced and updated to the most current MUTCD standards with another project in the area, JCT MT 200 – CHOTEAU, STPP 3-1(13)9.
 - h. **Pedestrian/Bicycle/ADA.** Existing pedestrian or bicycle facilities will not be impacted with this seal and cover project.
 - i. **Miscellaneous Features.** Guardrail end sections will be updated with optional terminal sections for this project. A mill and overlay is recommended between RP 39.5 to RP 40.8 and a request for cores has been made for this area.
 - b. **Context Sensitive Design Issues.** There are no Context Sensitive Design issues on this project.

Other Projects

Project STPP 3-1(31)9, JCT MT 200- CHOTEAU is a crack seal between RP 8.5 thru RP 40.77 and will be completed before this project.

Location Hydraulics Study Report

Due to the project work type a location hydraulics study report will not be needed.

Design Exceptions

There are no design exceptions being proposed with this project.

Right-of-Way

The acquisition of right-of-way/easements/permits is not anticipated for this project.

Cold-In-Place Recycle (for mill & overlay projects only)

Cold-In-Place recycle would not be appropriate due to such a small area of milling for this project.

Access Control

Access control will not be required for this project.

Utilities/Railroads

There is no railroad or utility involvement with this project.

Intelligent Transportation Systems (ITS) Features

ITS will not be included with this project. There are no WIM sites located on this project.

Survey

Estimated plan quantities will be determined from as-builts.

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.

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Project Manager : RJ Snyder

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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 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 RJ Snyder.

Preliminary Cost Estimate

The cost estimate includes: road work, traffic control, mobilization, contingencies, and CE.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	504,456		
Traffic Control	100,000		
Subtotal	604,456		
Mobilization (10%)	60,446		
Subtotal	664,902		
Contingencies (12%)	79,788		
Total CN	<u>\$744,690</u>	<u>\$19,814</u>	<u>\$ 838,202</u>
CE (10%)	<u>\$74,469</u>	<u>\$1,981</u>	<u>\$ 83,819</u>
TOTAL CN+CE	<u>\$ 819,159</u>	<u>\$ 21,795</u>	<u>\$ 922,021</u>

Cost per mile of the estimated constructional total of \$819,159 is \$66,008.

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 ready date for this project is July 1, 2012. The target letting date is January 2013.

Site Map

The project site map is attached.

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N FAIRFIELD - CHOTEAU
Project Manager : RJ Snyder

