



March 28, 2013

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
STPU 5299(104)
GTF Urban Maint Program
Control Number: 7994000

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):

- Doug Wilmot, P.E. Acting Great Falls District Administrator
- Steve Prinzing, P.E. Great Falls District Preconstruction Engineer
- 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
- Christie McOmber, P.E. Great Falls District Projects Engineer
- Kevin Christensen, P.E. Construction Engineer
- Suzy Price Contract Plans Bureau Chief
- Tim Tilton Contract Section Supervisor
- Lisa Hurley Fiscal Programming Section Supervisor
- Tom Erving Fiscal Programming Section
- Montana Legislative Branch Environmental Quality Council (w/ PFR/SOW also)
- File Environmental Services Bureau

(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)**

GTF Urban Maint

Project Number: STPU 5299(104) **Control No** 7994000 **Project Name:** Program
Reference Post (Station): 6th Street NW beginning at RP 1.8± and extending to RP 2.1±, 2nd Street S beginning at RP 0.9± and extending to RP 1.7±, 9th Street S beginning at RP 0.0± and extending to RP 0.3±
Applicant's Name: Montana Department of Transportation **Address:** PO Box 201001; Helena, MT 59620-1001
Type of Proposed Pavement Preservation Activity: CRACK SEALING, 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/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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<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/mns4.mcp.x). (Billings, Great Falls, and Missoula Urbanized areas, and Butte, Bozeman, and Helena)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Great Falls Urbanized Area
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.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:

Christie McOmber, PE

Applicant

Project Design Engineer

Title

2/27/2013

Date

Approved by:

Environmental Services

ENVIRONMENTAL ENGINEER
SECTION SUPERVISOR

Title

Click here to enter a date.

Date

Project Number: [Click here to enter text.](#) **Control No.:** [Click here to enter text.](#) **Project Name:** [Click here to enter text.](#)

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

The Applicant is **not** authorized to proceed with the proposed work until the checklist has been reviewed and approved, as necessary, and any requested conditions of approval have been incorporated.

- A. Complete the checklist items 1 through 7, indicating "Yes" or "No" for each item. Include comments, explanations, information sources, and a description of the magnitude/importance of potential impacts in the right hand column. Attach additional and supporting information as needed. The checklist preparer, by signing, certifies the accuracy of the information provided.
- B. When "Yes" is indicated on any item, the checklist preparer must explain why and provide the appropriate documentation, evaluation, permit, and/or mitigation measures required to satisfy environmental concerns for the project. Use attachments if necessary. **Any proposed mitigation measures will become a condition of approval.**
- C. If the applicant checks "Yes" for any one item, the checklist and MDT's mitigation proposal, documentation, evaluation and/or permit shall be submitted to MDT Environmental Services Bureau. Electronic format is preferred. Contact Number 444-7228.
- D. When the applicant checks a "Yes" item, MDT cannot be authorized to proceed with the proposed work until Environmental Services Bureau reviews the information and signs the checklist.
- E. MDT will obtain all necessary permits or authorizations from other entities with jurisdiction prior to beginning the Pavement Preservation Activity.
- F. The links above are provided as a starting point for potential sources of information for completing the checklist. The Applicant is encouraged to consult Environmental Services Bureau and/or other information sources.



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

Memorandum

To: Distribution

From: Paul Ferry, PE Lesly Tribelhorn 3/4/13
 Highways Engineer

Date: March 4, 2013

Subject: STPU 5299(104)
 GTF Urban Maint Program
 UPN 7994000
 Project Work Type 183: Resurfacing - Seal & Cover

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on March 4, 2013. 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:

- | | |
|--|--|
| Doug Wilmot, Acting 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 | Alan Woodmansey, FHWA-Operations Engineer |
| Jon Swartz, Maintenance Administrator | |

cc:

- | | |
|--|---|
| Robert Snyder, Project Design Man., Great Falls District | Dawn Stratton, Fiscal Programming Section |
| Damian Krings, Road Design Engineer | Alice Flesch, ADA Coordinator |
| Dave Dobbs, City of Great Falls, 2 Park Drive South, P.O. Box 5021, Great Falls, MT 59403 | |
| Jim Reardon, City of Great Falls, 2 Park Drive South, P.O. Box 5021, Great Falls, MT 59403 | |

e-copies:

- | | |
|---|---|
| Jim Walther, Engineering, Preconstruction Engineer | Jake Goettle, Construction Bureau – VA Engineer |
| Lesly Tribelhorn, Highways Design Engineer | Steve Prinzing, District Preconstruction Engineer |
| Mark Goodman, Hydraulics Engineer | Christie McOmber, District Projects Engineer |
| Kurt Marcoux, District Hydraulics Engineer | Stan Kuntz, G.F. District Materials Lab |
| Jon Axline, Acting Env. Resources Section Supervisor | Tony Strainer, District Maintenance Chief |
| Paul Sturm, District Biologist | Jerilee Weibel, District R/W Supervisor |
| Eric Thunstrom, Project Development Engineer | Phillip Inman, Utilities Engineering Manager |
| Danielle Bolan, Traffic Operations Engineer | David Hoerning, R/W Engineering Manager |
| Ivan Ulberg, Traffic Design Engineer | Greg Pizzini, Acquisition Manager |
| Gabe Priebe, District Traffic Project Engineer | Joe Zody, R/W Access Management Section Manager |
| Kraig McLeod, Safety Engineer | Matt Strizich, Materials Engineer |
| Stephanie Brandenberger, Bridge Area Eng, G.F. District | Daniel Hill, Pavement Analysis Engineer |
| Michael Grover, Engineering Cost Analyst | Lee Grosch, District Geotechnical Manager |
| Marty Beatty, Engineering Information Services | Bryce Larsen, Supervisor, Photogrammetry & Survey |
| Paul Grant, Public Involvement Officer | Paul Johnson, Project Analysis Bureau |
| Sue Sillick, Research Section Supervisor | Jean Riley, Planner |
| Alyce Fisher, Fiscal Programming Section | Dawn Stratton, Fiscal Programming Section |

Doug Wilmot, G.F. District Construction Engineer
James Combs, District Traffic Engineer

Linda Cline, District R/W Design
Brendan Scott, District Utility Agent

Introduction

This report was derived from information taken from the Preliminary Field Review conducted on February 25, 2013, with the following individuals in attendance:

Steve Prinzing	District Preconstruction Engineer	Great Falls
Christie McOmber	District Projects Engineer	Great Falls
Jeania Cereck	District Design Supervisor	Great Falls
Courtney Lyerly	City Engineering	Great Falls
Jim Turnbow	City Streets	Great Falls
James Combs	District Traffic Engineer	Great Falls
Will Locatelli	Road Designer	Great Falls

Proposed Scope of Work

This project was nominated as a preventative maintenance crack seal and seal and cover. The intent of this project is to rout and fill longitudinal and transverse pavement cracks followed up with a seal and cover to protect the asphalt surface, provide traction and prevent the crack seal product from being pulled out of the routed grooves by traffic.

Purpose and Need

The intent of this project is to extend the life of the roadway surface. In addition to the longitudinal and transverse cracking that has been observed, the project's existing seal and cover has reached its life expectancy.

Project Location and Limits

The three project locations are inside the city limits of Great Falls, Cascade County. The functional classification of each route included in this project is an Urban Collector Street:

- 1) U-5201 - 6th Street NW beginning at RP 1.8± and extending to RP 2.1±, from NW Bypass to 16 Avenue NW at a length of 0.262 mi.
- 2) U-5208 - 2nd Street S beginning at RP 0.9± and extending to RP 1.7±, from 2nd Avenue S to 10th Avenue S at a length of 0.656 mi;
- 3) U-5242 - 9th Street S beginning at RP 0.0± and extending to RP 0.3±, from 10th Avenue S to 13th Avenue S at a length of 0.22 mi.

As-Builts

The plans for the project will be in English and stationing will be determined during design. The existing horizontal and vertical alignment will be used throughout this project. As-built plans from STPU 5201(16) 6th Street NW, 16th Street to Smelter Avenue (U-5201) was designed in Metric stationing. The City of Great Falls has provided English as-built plans:

- OF 1114 (U-5201) - 6th Street NW from NW Bypass to 16th Avenue NW;
- OF 903 (U-5208) - 2nd Street S from 2nd Avenue S to 9th Avenue S;
- OF 1319 (U-5242) - 9th Street S from 10th Avenue S to 17th Avenue S.

Adjacent Projects

All adjacent projects are scheduled for completion in 2013. As long as the subject project is not constructed until 2014, there should be no conflicts.

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. Single lane detours or road closures with alternative detour routes could be established in these areas.

Physical Characteristics

All routes are located within the Great Falls urban limits with the majority having generally level terrain. The south end of 2nd Street between 9th Avenue South and 10th Avenue South has a tight reverse curve on an +8.1% grade slope and an estimated 4.5% superelevation for 1 block.

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 Project Manager: Christie McOmber, P.E.

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Horizontal Alignment

The existing horizontal alignment will be used throughout the project.

Vertical Alignment

The existing vertical alignments will be used throughout the project. Passing sight distance and stopping sight distance will not be addressed with this pavement preservation project.

Existing Surfacing

Finish Top Width section along with curb and lane data provided by as-built drawings are listed in the table below:

LOCATION	AS-BUILT PROJ #	EXISTING SURFACE (Back of Curb)	FROM	TO	CURBED	# of LANES
6 TH St NW	OF 1114	Reconstruct: 4" Asphalt Concrete 18" 1-1/2" Minus Base Course 44' Width	NW Bypass	16 th Ave NW	Yes	2
2 nd St S	OF 903	1 1/4" Asphalt Surf Course Overlay Fabric Membrane Inner layer Variable Thickness Leveling Course (5/8" Minimum) 8' Unreinforced Concrete (Existing) Slab w/3/4" Dowels @ 16" O.C. at all Joints 8" Gravel Base 46' Width	2 nd Ave S	9 th Ave S	Yes	2
9 th St S	OF 1319	Reconstruct: 6" Asphalt Concrete 12" 1-1/2" Minus Base Course 51' Width	TYPICAL	TYPICAL	Yes	2
9 th St S	OF 1319	Construct & Mill/Overlay: 2" Asphalt Concrete Overlay 12" 1-1/2" Minus Base Course 51' Width	STA 1+40	STA 2+95	Yes	2
9 th St S	OF 1319	Reconstruct: 6" Asphalt Concrete 12" 1-1/2" Minus Base Course 46' Width	STA 10+10	STA 11+70	Yes	2

Overall Condition Index (OCI)

The following information was provided by the Great Falls City Engineer on January 30, 2013.

U-5201 – 6th Street NW:

From Northwest Bypass to 10th Avenue NW, Overall Condition Index (76.50), Insp. date Dec 15, 2004.

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From 10th Avenue NW to 16th Avenue NW, Overall Condition Index (83.64), Insp. date Dec 15, 2004.

U-5208 – 2nd Street South:

From 2nd Avenue S to 9th Avenue S, Overall Condition Index (80.21), Insp. date Mar 21, 2005.

From 9th Avenue S to 10th Avenue S, Overall Condition Index (36.64), Insp. date Mar 21, 2005. Rail crossing removed and CAC/pavement repaired in 2012.

U-5242 – 9th Street South:

From 10th Avenue S to 13th Avenue S, Reconstructed in 2012.

Traffic Data

Traffic Data is not applicable due to the scope of the project.

Crash Analysis

Crash Data is not applicable due to the scope of the project.

Major Design Features

Design Speed

Each project location is classified in the Geometric Design Criteria as an Urban Collector Street. The Road Design Manual calls for a design speed of 30 mph. The posted speed limit inside the project scope for U-5201 (6th St NW) and U-5208 (2nd St S) is 30 mph. U-5242 (9th St S) has a posted speed limit of 25 mph inside the project limits.

Horizontal/Vertical Alignment

The existing horizontal/vertical alignments are suitable for a preventative maintenance treatment.

Typical Sections and Surfacing

Due to the nature of this project, existing surface widths will not be altered. The PTW ranges from 44' to 51', measured from back of curb. Milling or a leveling course will not be required for this project. Details for crack sealing will be included in the plans with quantities.

Removal and replacement of existing pavement markings along with additional bicycle and curb markings will be included in the project.

Geotechnical Considerations

Because of the limited scope of this project, geotechnical considerations will not be addressed.

Hydraulics

Due to the nature of this project, hydraulic considerations are not anticipated for this project.

Bridges

No bridge structures exist inside the limits of this project.

Traffic

New pavement markings will be required throughout this project. The City Traffic Division will install "NO PARKING" signage on 9th Street S from 10th Avenue S to 13th Avenue S.

Pedestrian/Bicycle/ADA

Due to the limited scope of this project, no new pedestrian or ADA features are anticipated. All segments will incorporate bicycle lanes in areas with adequate lane width or "Sharrow" markings will be used

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where lane widths are limited. The City plans to complete the “Sharrow” marking placement on 6th Street NW from 16th Avenue NW to Smelter Ave, outside the scope of this project.

Context Sensitive Design Issues

No context sensitive design issues will be addressed with this project.

Other Projects

Project NH 60-2(92)93 – PCCP rehabilitation – 10th Avenue South from Warden Bridge to 18th Street South is an adjacent project to U-5208 and U-5242. This is a concrete rehabilitation project scheduled for competition by the end of 2013. City project OF 1653.4 – 9th Street NW from NW Bypass to Smelter Avenue NW is an adjacent project to U-5201. This is a mill and overlay project with curb and ADA improvements and is also scheduled for competition by the end of 2013. The subject project is not scheduled to begin construction until 2014. As long as project schedules are maintained, future conflicts are not anticipated.

Location Hydraulics Study Report

A Location Hydraulics Study Report is not necessary.

Design Exceptions

No design exceptions are anticipated for this project.

Right-of-Way

As-built drawings indicate the existing right-of-way has a consistent width of 40’ on each side of centerline for all three routes. The need for new right-of-way is not anticipated for this project.

Access Control

The existing access control will not be altered, due to the scope of this project.

Utilities/Railroads

Utilities

Due to the nature of this project, no utility involvement is anticipated.

Railroads

A railroad crossing was recently removed and the pavement was patched on 2nd St S (U-5208) between 9th and 10th Ave S. An agreement may need to be attained from the railroad, prior to the start of construction.

Maintenance Items

City Maintenance will conduct Mill and Fill repairs to some areas of 6th St NW this summer (2013). Due to project scheduling, no conflict is anticipated. City Engineers are investigating a developing spring issue on the west side of 2nd Street South between 10th Avenue South and 9th Avenue South. Further information will be available once the investigation is completed.

Intelligent Transportation Systems (ITS) Features

There are no ITS solutions that will be designed within this project.

Experimental Features

No experimental features are included in this project.

Survey

City Engineers will provide crack counts for each project location.

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Public Involvement

Due to the limited scope of the project, a Level "A" public involvement plan is appropriate. A Public News Release was issued on February 25, 2013.

Environmental Considerations

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

Energy Savings/Eco-Friendly Considerations

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

Traffic Control

A Transportation Management Plan (TMP) consisting of a Traffic Control Plan (TCP) is appropriate for this project.

Traffic issues that will require special consideration are as follows:

- Swift setup and removal of traffic signing in accordance with the Manual on Uniform Traffic Control Devices will be necessary.
- Lane closures may be necessary so workers can maintain a safe working area, as far away from the traveling lanes as possible.
- Temporary closer of the turn lane on 10th Avenue South turning south onto 9th Street South, may be appropriate.

Project Management

The Great Falls District will be responsible for the plans. Christie W. McOmber, P.E., is the Great Falls District Projects Engineer. This project is not under full FHWA oversight.

Preliminary Cost Estimate

The project was programmed at a (CN) cost of \$120,000. The items included in the cost estimate are crack seal, seal and cover and pavement markings. The construction cost for this project is \$150,970 per mile.

GTF Urban Maint Program		Estimate	Inflation (INF)	w/INF + IDC
		Costs	(from PPMS)	(from PPMS)
Crack Seal		\$15,000		
Chip Seal		\$102,345		
Striping		\$20,000		
Traffic Control		\$10,000		
Subtotal		\$147,345		
Mobilization	10%	\$14,735		
Subtotal		\$162,080		
Contingencies	6%	\$9,725		
Total CN		\$171,804	\$26,388	\$220,152
CE	10%	\$17,180	\$2,639	\$22,015
IDC:	11.08%		TOTAL	\$242,168
Inflation Factor (ppms)			<i>0.153595347</i>	

Note: Estimated unit costs provided by the City of Great Falls Engineering and are: \$2.50 per liner foot
 REV 1/16/2013

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for crack seal and \$3.00 per square yard for chip seal. 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 11.08% as of FY 2013.

Ready Date

The scheduled ready date is October 1, 2013. No letting date has been established although there is sufficient funding in the UPP program to let the project in 2014.

Site Map

The project site map is attached.

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPU 5299(104) CRACKSEAL, SEAL AND COVER GTF URBAN MAINT PROGRAM CASCADE COUNTY

LENGTH 1.138 miles

