



December 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 24-2(21)56
Jct Hwy 141-East
Control Number: 7608000

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
- 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
- Dawn Stratton Fiscal Programming Section
- Alyce Fisher Fiscal Programming Section
- Brad Burns Budget and Planning Bureau
- Nicole Pallister Helena Purchasing

Montana Legislative Branch Environmental Quality Council (w/ PFR/SOW also)

copies with attachments:

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)

Project Number: NH 24-2(21)56 Control No 7608000 Project Name: Jct Hwy 141-East
 Reference Post (Station): 55.6 To Reference Post (Station): 67.7
 Applicant's Name: Montana Department of Transportation Address: PO Box 201001; Helena, MT 59620-1001
 Type of Proposed Pavement Preservation Activity: 183-RESURFACING-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 checked="" type="checkbox"/>	<input type="checkbox"/>	Unknown <i>grizzly bear, Canada Lynx, Canada Lynx CH, bull trout, bull trout CH</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"/>	Unknown <i>Sprague's Pipit, Wolverine, White pine</i>
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 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 W. McOmber, PE Project Design-Engineer Title 11/3/2011 Date
 Applicant Title ENVIRONMENTAL ENGINEERING
 Approved by: [Signature] SECTION SUPERVISOR
 Environmental Services Title 12/7/11 Date
 Click here to enter a date.



(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.



Memorandum

To: Distribution

From: Paul R. Ferry, P.E. *Signed by Lesly Tribelhorn*
 Highways Engineer

Date: November 4, 2011

Subject: NH 24-2(21)56
 Jct Hwy 141-East
 UPN: 7608000
 Work Type: 183-Resurfacing-Seal & Cover

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on November 4, 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, Great Falls District Administrator | Tom Martin, Environmental Services Bureau Chief |
| Doug Moeller, Missoula District Administrator | Lynn Zanto, Rail, Transit, & Planning Division Administrator |
| Kent Barnes, Bridge Engineer | Jake Goettle, Construction Engineering Services Bureau |
| Paul Ferry, Highways Engineer | Matt Strizich, Materials Engineer |
| Roy Peterson, Traffic and Safety Engineer | Jon Swartz, Maintenance Administrator |
| Robert Stapley, Right-of-Way Bureau Chief | Alan Woodmansey, FHWA - Operations Engineer |

cc:

- | | |
|---|--|
| Dawn Stratton, Fiscal Programming Section | Damian Krings, Road Design Engineer |
| Robert Snyder, Road Design Area Engineer | Lewis & Clark County Commissioners |
| Powell County Commissioners | 316 N Park Ave, Rm 304, Helena, MT 59623 |
| 409 Missouri Avenue, Deer Lodge, MT 59722 | |

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 McOmer, District Projects Engineer |
| Kurt Marcoux, District Hydraulics Engineer | Stan Kuntz, G.F. District Materials Lab |
| Bonnie Gundrum, Env. Resources Section Supervisor | Tony Strainer, Great Falls District Maintenance Chief |
| Paul Sturm, District Biologist | Phillip Inman, R/W Utilities Section |
| Eric Thunstrom, Project Development Engineer | David Hoerning, R/W Engineering Manager |
| Danielle Bolan, Traffic Engineer | Greg Pizzini, Acquisition Manager |
| Ivan Ulberg, G.F. 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 Eng, G.F. District | Sue Sillick, Research Section Supervisor |
| Matt Strizich, Materials Engineer | Duane Williams, Motor Carrier Services Division Administrator |
| Daniel Hill, Pavement Analysis Engineer | Alyce Fisher, Fiscal Programming |
| Lee Grosch, District Geotechnical Manager | Mary Gayle Padmos, PvMS Engineer |
| Bryce Larsen, Supervisor, Photogrammetry & Survey | James Combs, District Traffic Engineer |
| Marty Beatty, Engineering Information Services | Doug Wilmot, G.F. District Construction Engineer |
| Paul Grant, Public Involvement Officer | Jerilee Weibel, District R/W Supervisor |
| Jean Riley, Planner | Dennis Ghekiere, District Utility Agent |
| Dawn Stratton, Fiscal Programming | Linda Cline, District R/W Design |
| Scott Bunton, Engineering Cost Analyst | |



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

Memorandum

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

From: Christie W. McOmber, P.E. *CWM*
District Projects Engineer

Date: November 4, 2011

Subject: NH 24-2(21)56
Jct Hwy 141-East
UPN: 7608000
Work Type: 183-Resurfacing-Seal & Cover

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

Approved Lesly Tribelhorn Date November 4, 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

Preliminary Field Review/Scope of Work Report

NH 24-2(21)56 Jct Hwy 141-East
Project Manager : Christie W. McOmber, PE

Page 1 of 6

Introduction

This report was developed from information taken from the preliminary field review conducted on October 14, 2011 with the following personnel in attendance:

Steve Prinzing	District Preconstruction Engineer	Great Falls
Christie McOmber	District Projects Engineer	Great Falls
Jeania Cereck	District Road Design Supervisor	Great Falls
Laci Bogden	District Road Design	Great Falls
Gary Engman	District Maintenance Superintendent	Great Falls
Ted Winderl	District Maintenance Sectionman	Lincoln
Mike Hoffman	Maintenance Technician	Missoula
Steve McEvoy	Surfacing	Helena
Paul Sturm	District Biologist	Helena
Gerry Brown	Constructability Reviewer	Lewistown

Proposed Scope of Work

This project was nominated as a preventative maintenance seal and cover. The intent of this project is to extend the life of the pavement and provide additional skid resistance.

Guardrail ends will be updated with this project.

The plans for the proposed project will be in English stationing. The project begins on N-24 at RP 55.6± and continues east approximately 12.2 miles to RP 67.7±. Approximately 95' of P-41, the portion of P-41 between the junction with N-24 and the bridge over the Blackfoot River, will receive a seal and cover as well.

The Great Falls District will construct the project.

Purpose and Need

The purpose of the project is to take a cost-effective action to extend the service life of the highway.

Project Location and Limits

The project is located in Powell and Lewis & Clark Counties on N-24 (MT-200) beginning at RP 55.6±, Sec. 26, T14N, R11W, approximately 545' northwest of the junction with P-41 (MT-141), and continues east approximately 12.2 miles ending at RP 67.7±, Sec. 29, T14N, R9W. The project also includes a connection of approximately 95' on P-41 (MT-141) between the N-24/P-41 junction and the bridge over the Blackfoot River.

N-24 between the RP's 55.6± and 65.451 (Powell County/Lewis & Clark County Line) is located in the Missoula Financial District and the Great Falls Administration District. The remainder of the project is located in the Great Falls Financial and Administration Districts.

The Functional Classification of N-24 is Principal Arterial (Non-Interstate) and the project will be designed to the Geometric Design Criteria for Rural Principal Arterials (NHS-Non Interstate).

N-24 meanders through the Helena National Forest between RP's 64.1 and 67.7.

The project crosses a single bridge at RP 57.9 over Arrastra Creek.

Preliminary Field Review/Scope of Work Report

Project ID	From	To	Year Built
	RP	RP	
<u>As-Builts</u>			
F-267(11)	55.7	55.7	1961
EACF 24-2(8)43	43.4	55.7	1991
NH 24-2(10)56	55.7	67.7	1993
<u>Improvement Projects</u>			
BR-NH 24-2(19)58 – Bridge Replacement	57.8	58.3	2009

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 limited 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

The roadway traverses a rural area with rolling terrain in a mountainous area.

Project History:

- A. The Junction of N-24 and P-41 at RP 55.7 was constructed in 1961 under project F-267(11).
- B. The Junction of N-24 and P-41 at RP 55.7 was widened to 42.0' in 1991 under EACF 24-2(8)43.
- C. In 1993 under NH 24-2(10)56, N-24 was widened between RP's 55.7 and 67.7 from 24.0' to 28.0' consisting of two 12.0' travel lanes and two 2.0' shoulders except where passing lanes were added. Between RP's 62.5 to 63.4, the road was widened to 52.0' consisting of two 12.0' travel lanes, two 12.0' passing lanes, and two 2.0' shoulders. The passing lanes were constructed with 6:1 surfacing inslopes and 0.35' of plant mix surfacing. The remaining roadway was constructed with 4:1 surfacing inslopes, 0.70' of pulverization, and 0.35' of plant mix surfacing.
- D. The Arrastra Creek bridge at RP 57.9 was replaced in 2009 under BR-NH 24-2(19)58. The project included roadway reconstruction between RP's 57.8 and 58.0 including two 12.0' travel lanes and two 2.0' shoulders with 0.30' of plant mix surfacing widening to two 12.0' travel lanes and two 8.0' shoulders at the bridge. The project also included a superelevation correction and 0.20' overlay between RP's 58.0 and 58.3. Signing and guardrail were updated between RP's 57.8 and 58.3.
- E. Maintenance seal and covered the project in 2003 and cracksealed the project in 2003, 2007, and 2011.

The Pavement Condition Treatment Report for survey year 2010 is given in the following table. Construction recommendations for 2011 and 2013 are to do nothing.

PVMS INDICES	
RP 55.7 to RP 67.7	
Ride	79.5 (Fair)
Rut	81.0 (Good)
Alligator Cracking	97.9 (Good)
Miscellaneous Cracking	97.8 (Good)

Preliminary Field Review/Scope of Work Report

NH 24-2(21)56 Jct Hwy 141-East
Project Manager : Christie W. McOmber, PE

Page 3 of 6

Traffic Data

Traffic data was not requested for this project due to its limited scope.

Crash Analysis

Crash data was not requested for this project due to its limited scope.

Major Design Features

- a. **Design Speed.** The design speed for N-24, Rural Principal Arterials (NHS-Non Interstate), in rolling terrain is 60 mph.
- b. **Horizontal Alignment.** The horizontal alignment will be perpetuated with this pavement preservation project.
- c. **Vertical Alignment.** The vertical alignment will be perpetuated with this pavement preservation project.
- d. **Typical Sections and Surfacing.** There are no proposed changes to the typical sections as this is a seal and cover project. The roadway width varies between 28.0' and 52.0'.
- e. **Geotechnical Considerations.** No Geotechnical considerations are anticipated on this project. A slide area is being monitored at RP 56.8±; however, no changes will be addressed with this project.
- f. **Hydraulics.** No Hydraulic considerations are anticipated on this project.
- g. **Bridges.** No Bridge considerations are anticipated on this project. N-24 bridge approach sections and guardrail were updated in 2009 under BR-NH 24-2(19)58.

Structure Description	RP	Road Width (feet)	Length (feet)	Year Built	Structure Status
Arrastra Creek	57.9	40.0'	75'	2008	Concrete Cast-in-Place

- h. **Traffic.** New pavement markings will be required. The signing between RP's 57.8 and 58.3 was updated in 2009 under BR-NH 24-2(19)58. A signing upgrade will not be required with this project.
- i. **Pedestrian/Bicycle/ADA.** Not applicable.
- j. **Miscellaneous Features.** Guardrail ends will be upgraded with this project. However, the wrap around guardrail sections and Intersecting Roadway Terminal Sections will not be upgraded with this project. The many pullout areas along N-24 will also receive a partial seal and cover.
- k. **Context Sensitive Design Issues.** N-24 meanders through the Helena National Forest between RP's 64.1 and 67.7.

Other Projects

HSIP 41-1(21)24, (UPN 7180000) SF 099 SE of Helmville, located 8± miles south of this project, is a safety project adding chevrons between RP's 24.3 and 24.6 on MT-141 scheduled for construction in 2014.

NH 24-3(43)68, (UPN 7455000) West of Lincoln-East, is a crack seal project between RP's 67.7 and 85.8 on MT-200 scheduled for construction in 2012.

Design Exceptions

Design exceptions are not applicable.

Preliminary Field Review/Scope of Work Report

NH 24-2(21)56 Jct Hwy 141-East
Project Manager : Christie W. McOmber, PE

Page 4 of 6

Right-of-Way

Not applicable.

Access Control

Access Control will not be required for this project.

Utilities/Railroads

There will be no railroad or utility involvement with this project. A special to locate utilities near any guardrail upgrades will be included.

Intelligent Transportation Systems (ITS) Features

No ITS features have been located within the project limits. No ITS issues are anticipated with this project.

Survey

No survey will be required for this project.

Public Involvement

Due to the limited scope of the project, a level "A" public involvement plan should suffice. This will include a news release explaining the project and include a department point of contact.

Environmental Considerations

The project meets the criteria for the Statewide Programmatic Categorical Exclusion for pavement preservation projects. An environmental checklist is being supplied with the Preliminary Field Review/Scope of Work Report.

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.

Experimental Features

No experimental features will be addressed with 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.

Project Management

Christie W. McOmber, PE, Great Falls District Projects Engineer. The project will be designed in the Great Falls District. The project is not under full FHWA oversight.

Preliminary Field Review/Scope of Work Report

NH 24-2(21)56 Jct Hwy 141-East
 Project Manager : Christie W. McOmber, PE

Page 5 of 6

Preliminary Cost Estimate

The project was nominated at \$630,000 including IDC and inflation. The preliminary estimate is \$620,700 with a cost of \$50,880 per mile. The following items were considered in the preliminary estimate: seal and cover, pavement markings, and guardrail improvements.

		Estimate Costs	Inflation (INF) (from PPMS)	w/INF + IDC (from PPMS)
Road work		\$450,000		
Traffic Control		\$25,000		
Subtotal		\$475,000		
Mobilization	10%	\$47,500		
Subtotal		\$522,500		
Contingencies	8%	\$41,800		
Total CN		\$564,300	\$9,262	\$628,854
CE	10%	\$56,430	\$926	\$62,885
IDC:	9.64%		TOTAL	\$691,739
		Inflation Factor (ppms)	0.016413793	

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 target ready date for this project is October 1, 2012. A letting date has not been set. The project will be ready early.

Site Map

The project site map is attached.

MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT NH 24-2(22)56

SEAL & COVER

JCT HWY 141 - EAST

POWELL AND LEWIS & CLARK COUNTIES

LENGTH 12.2 miles

