



September 5, 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  
STPP 80-1(26)43  
Arrow Creek-South  
Control Number: 7638000

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  |
| Steve Prinzing, P.E.       | Great Falls District Preconstruction Engineer                |
| Kevin Christensen, P.E.    | Construction Engineer  |
| Suzy Price                 | Contract Plans Bureau Chief                                  |
| 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 80-1(26)43 Control No 7638000 Project Name: Arrow Creek – South  
 Reference Post (Station): 43.1 To Reference Post (Station): 46.4  
 Applicant's Name: Montana Department of Transportation Address: PO Box 201001; Helena, MT 59620-1001  
 Type of Proposed Pavement Preservation Activity: Work Type 180: Resurfacing – Asphalt

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 <a href="http://www.rivers.gov/wildriverslist.html">http://www.rivers.gov/wildriverslist.html</a> )	<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 checked="" type="checkbox"/>	<input type="checkbox"/> N/A
3b. Is the proposed project within an MS4 Permit Area? (See <a href="http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp">http://deq.mt.gov/wqinfo/MPDES/StormWater/ms4.mcp</a> ). (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 <a href="http://nris.mt.gov/deq/remsitequery/portal.aspx">http://nris.mt.gov/deq/remsitequery/portal.aspx</a> )	<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 checked="" type="checkbox"/>	<input type="checkbox"/> N/A
7. Is the proposed project in a "Class I Air Shed" or a nonattainment area? (See <a href="http://deq.mt.gov/AirQuality/Planning/AirNonattainment.mcp">http://deq.mt.gov/AirQuality/Planning/AirNonattainment.mcp</a> ) (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:

Christie McOmber

Applicant

Project Design Engineer

Title

7/18/2012

Date

Approved by:

*[Signature]*  
Environmental Services

ENVIRONMENTAL ENGINEERING  
SECTION SUPERVISOR

Title

9/5/12

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.



**Memorandum**

To: Distribution

From: Paul R. Ferry, P.E. *Paul R. Ferry 8/15/12*  
 Highways Engineer

Date: August 14, 2012

Subject: STPP 80-1(26)43  
 Arrow Creek - South  
 UPN 7638000  
 Work Type180 – Resurfacing – Asphalt (Thin Lift ≤ 0.20 ft.) (Including Safety Improvements)

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on [8/15/12](#). 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, 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 Peterson, Traffic and Safety Engineer       | Jon Swartz, Maintenance Administrator (PFR or SOW only)      |
| Rob Stapley, Right-of-Way Bureau Chief          | Alan Woodmansey, FHWA - Operations Engineer (full oversight) |
| Paul Ferry, Highways Engineer                   |  |

**cc:**

- |   |                                     |
|---|-------------------------------------|
| Dawn Stratton, Fiscal Programming Section                             | Damian Krings, Road Design Engineer |
| Robert Snyder, Road Design Area Engineer                              |                                     |
| Chouteau County Commissioners, PO Box 459, Fort Benton, MT 59422-0459 |                                     |

**e-copies:**

- |   |   |
|---|---|
| Jim Walther, 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 McOmer, District Projects Engineer                   |
| Bonnie Gundrum, Env. Res. Section Supervisor            | Stan Kuntz, G.F. District Materials Lab                       |
| Paul Sturm, District Biologist                          | Tony Strainer, Great Falls District Maintenance Chief         |
| Eric Thunstrom, Project Development Engineer            | Jerilee Weibel, District R/W Supervisor                       |
| Danielle Bolan, Traffic Engineer                        | Phillip Inman, Utilities Engineering Manager                  |
| Ivan Ulberg, G.F. District Traffic Project Engineer     | David Hoerning, R/W Engineering Manager                       |
| Kraig McLeod, Safety Engineer                           | Greg Pizzini, Acquisition Manager                             |
| Stephanie Brandenberger, Bridge Area Eng, G.F. District | Joe Zody, R/W Access Management Section Manager               |
| Mary Gayle Padmos, PvMS Engineer                        | Paul Johnson, Project Analysis Bureau                         |
| Daniel Hill, Pavement Analysis Engineer                 | Susan Sillick, Research Section Supervisor                    |
| Lee Grosch, District Geotechnical Manager               | Doug Wilmot, G.F. District Construction Engineer              |
| Bryce Larsen, Supervisor, Photogrammetry & Survey       | James Combs, District Traffic Engineer                        |
| Marty Beatty, Engineering Information Services          | Linda Cline, District R/W Design                              |
| Paul Grant, Public Involvement Officer                  | Duane Williams, Motor Carrier Services Division Administrator |
| Jean Riley, Planner                                     | Dennis Ghekiere, District Utility Agent                       |
| Dawn Stratton, Fiscal Programming Section               | Alyce Fisher, Fiscal Programming                              |



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

**Memorandum**

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

From: Stephen Prinzing, P.E. *SP*  
District Preconstruction Engineer

Date: August 14, 2012

Subject: STPP 80-1(26)43  
Arrow Creek - South  
UPN 7638000  
Work Type180 – Resurfacing – Asphalt (Thin Lift  $\leq$  0.20 ft.) (Including Safety Improvements)

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

Approved Paul R. Ferry Date 8/15/12  
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  
Master file

## Preliminary Field Review/Scope of Work Report

STPP 80-1(26)43, Arrow Creek - South

Project Manager: Christie W. McOmber & Steve Prinzing

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### Introduction

This report was developed from information taken from the preliminary field review conducted on July 16, 2012 with the following personnel in attendance:

Christie McOmber	District Projects Engineer	MDT	Great Falls
Jeania Cereck	District Design Supervisor	MDT	Great Falls
Beth Pointer	Road Designer	MDT	Great Falls
Stephanie Brandenberger	Bridge	MDT	Helena
Jim Cornell	Traffic – Signing	MDT	Helena
Ed Shea	Pavement Analysis	MDT	Helena
Douglas Lutke	Maintenance	MDT	Lewistown

### Proposed Scope of Work

The proposed pavement preservation project has been nominated to provide milling, an overlay, and seal & cover. This project is anticipated to be let for the 2014 construction season. Guardrail, bridge rail, signing and striping will be updated.

### Purpose and Need

Significant rutting and numerous maintenance patches are present along this project. This project will improve the ride, extend the life of the roadway and will also update inadequate guardrail at bridge ends and rails across the bridge.

### Project Location and Limits

This project is located on P-80 between Stanford and Square Butte and is primarily in Chouteau County. The project begins at RP 43.1 and proceeds southwest for approximately 3.3 miles, ending at RP 46.4, just south of the bridge over Arrow Creek. The Choteau/Fergus County line is located at RP 46.128. The functional classification of this route is a Minor Arterial.

The project will be designed in mile posts from north to south.

Guardrail will be placed outside the project limits around RP 43.0 to shield errant vehicles from running off the road and down an eroded embankment to the creek.

The project is located in Section 32, Township 20 North, Range 13 East, Section 6, Township 19 North, Range 13 East and Sections 1, 12 & 11, Township 19 North, Range 12 East.

The following table identifies original as-built project location and year built:

As-Built Project ID	From RP	To RP	Year Built
* S 307(14)	39.616	45.698	1964
* S 307(8)	45.698	49.934	1962
# STPP 80-1(16)28	28.061	43.435	2002
# RTF 80-1(5)28	43.435	46.196	1990

# Plans not found

\* Project stationing runs south to north while mile posts run north to south

## Preliminary Field Review/Scope of Work Report

STPP 80-1(26)43, Arrow Creek - South

Project Manager: Christie W. McOmber & Steve Prinzing

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Other projects in the area include:

- ER-STPP 80-2(1)47, Arrow Cr Slide Repair/MT11-1, a flood repair project to re-establish the roadway to the pre-damaged condition and stabilize the facility as necessary that is scheduled to be constructed in 2013.
- STPP 80-1(24)15, Geraldine – Arrow Creek, a preventative maintenance crack seal and micro surfacing project to extend the life of the roadway was constructed in 2011.

### **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**

The P.T.W. traverses level terrain through a rural area and is used primarily for farmland and dryland pasture. The project begins at RP 43.1 and proceeds southwest for approximately 3.3 miles, ending at RP 46.4, just south of the bridge over Arrow Creek and just south of the Choteau/Fergus County line.

#### Existing Surfacing

The roadlog shows an existing plant mix surfacing depth of 6.56", a gravel thickness of 17" and surfacing width of 29' between RP 39.616 to RP 43.435. There are two 12' travel lanes and two 2.5' shoulders.

Between RP 43.435 to RP 46.196 the existing plant mix surfacing depth is 4.2", gravel thickness is approximately 17" and surfacing width is 28'. There are two 12' travel lanes with 2' shoulders.

During the preliminary field review the finished top width of 24.5' was measured at RP 43.7±. Over the years maintenance has added 6-12" millings and then an overlay on top of the existing asphalt to level the surface in multiple locations on the roadway. The buildup has also caused the inslopes to become very steep.

#### Horizontal Alignment

The existing horizontal alignment consists of a series of three curves and tangent sections. The minimum radius within the project limits is 2865', which exceeds the minimum radius of 1200' for a Rural Minor Arterial in level terrain at 60 mph. The existing horizontal alignment will be used throughout the project.

#### Vertical Alignment

The existing vertical alignment consists of a series of gentle grades and a variety of curves from 400' to 1000' in length. The maximum grade of 2.58% meets the Geometric Design Criteria for a Rural Minor Arterial of 3% for level terrain at 60 mph. Passing sight distance and stopping sight distance will not be addressed with this pavement preservation project. The existing vertical alignment will be used throughout the project.

#### PVMS Data

The survey year 2011 and run year 2012 indices for the roadway are listed in the PVMS database:

## Preliminary Field Review/Scope of Work Report

RP 43.1 to RP 46.4

Recommended Treatment for:

2012 – C\_AC Thin Overlay

2014 – C\_AC Thin Overlay

PVMS INDICES	
Ride	65 (fair)
Rut	68.5 (good)
Alligator Cracking	94.5 (good)
Miscellaneous Cracking	97.9 (good)

### Bridges

There are two timber bridges within the project limits that will receive guardrail upgrades and a mill and overlay across the structure. The following table identifies the structures:

Intersecting Features	Location (RP / Sta.)	Deck Width (feet)	Length (feet)	Year Built	Structure Surfacing
Little Battle Creek	45.50/ 415+70	28'	21'	1950	Bituminous
Arrow Creek	46.11/ 383+70	24'	253'	1949 Reconstructed in 1960	Bituminous

### Traffic Data

2012 ADT	=	310	(Present)
2014 ADT	=	320	(Letting Year)
2034 ADT	=	430	(Design Year)
DHV	=	70	
T	=	12.3%	
ESAL	=	24	
Growth Rate	=	1.5%	(Annual)

### Crash Analysis

The following engineering study evaluation from RP 43.1 to 46.2 (State Primary Route 80) was analyzed for the time frame January 1, 2002 through December 31, 2011.

There was one single vehicle crash in which a truck/tractor with no trailer went off the road and rolled. There was no adverse road or weather conditions. The crash resulted in a fatality.

### Major Design Features

- **Design Speed.** The design speed of 60 mph was taken from the Geometric Design Criteria for Rural Minor Arterials in level terrain. The posted speed limit is 70 mph daytime/65 mph nighttime.
- **Horizontal Alignment.** The existing horizontal alignment is adequate for a preventative maintenance treatment.
- **Vertical Alignment.** The existing vertical alignment is adequate for a preventative maintenance treatment.

## Preliminary Field Review/Scope of Work Report

STPP 80-1(26)43, Arrow Creek - South

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- **Typical Sections and Surfacing.** The PTW varies between 24' and 28' wide. The project will provide milling, an overlay, and seal & cover. Shoulder gravel will be applied to areas where the existing pavement inslopes are steep to allow a 4:1 inslope to be paved. The disposal of the millings will be determined during the design of the project.
- **Geotechnical Considerations.** Due to the limited scope of this project, geotechnical considerations will not be addressed. Surfacing cores have been ordered to determine the thickness of the plant mix in place on 7/23/12. Maintenance has placed millings to smooth the roadway then applied an overlay on top of the millings at several locations.
- **Hydraulics.** Hydraulic considerations are not anticipated for this project. The asbuilt plans show 48" cross drains at stations 543+14 (RP 43.09), 517+27 (RP 43.58), 469+20 (RP 44.49), & 440+48 (RP 45.03) and a 108" cross drain at station 451+20 (RP 44.83) that is a deeded stockpass.
- **Bridges.** Two bridges are located within the project limits. The bridge over Little Battle Creek is also a deeded stockpass. New guardrail will be installed at the approaches and the bridge rail will be replaced on both structures. The existing PMS on the structures will be milled and overlaid. Bridge will supply plans and quantities for the bridge rail. A private electric fence is attached to the structure at RP 46.107.
- **Traffic.** New signing and pavement markings will be included with this project. Maintenance stated that the existing delineators are less than one month old and will not be replaced with this project. The object markers at each corner of the structures will be removed.
- **Pedestrian/Bicycle/ADA.** There are no existing ADA, pedestrian or bicycle features along the project.
- **Miscellaneous Features.**
  - New guardrail will be installed at the approaches and across the bridges within the project limits.
  - Outside the project limits Arrow Creek is eroding away the side slope. Maintenance has stated that the erosion has slowed. They are requesting guardrail be placed to shield the vehicles from running over the bank. The edge of Arrow Creek bank/erosion is 20' from the edge of roadway at RP 43.014±.
- **Context Sensitive Design Issues.** No context sensitive design issues will be addressed with this project.

### Other Projects

Other projects in the area include:

- ER-STPP 80-2(1)47, Arrow Cr Slide Repair/MT11-1, a flood repair project to re-establish the roadway to the pre-damaged condition and stabilize the facility as necessary that is scheduled to be constructed in 2013.

### Location Hydraulics Study Report

A Location Hydraulics Study Report is not necessary for this project.

### Design Exceptions

No design exceptions are anticipated for this project.

### Right-of-Way

No new right-of-way will be required for this project. Existing right-of-way varies between 40' and 140' east of the existing centerline. Existing right-of-way follows the easterly boundary of the railroad on the west side of the centerline until just north of Arrow Creek where the right-of-way varies between 60' and 80'.

## **Preliminary Field Review/Scope of Work Report**

STPP 80-1(26)43, Arrow Creek - South  
Project Manager: Christie W. McOmber & Steve Prinzing

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### **Access Control**

There will be no modifications to access control with this project.

### **Utilities/Railroads**

Utilities – Due to the nature of this project utility involvement is not anticipated. Utilities will need to be located before the placement of guardrail.

Railroad – BNSF railroad tracks run along the northwest side of the roadway for the majority of the project. Since the tracks are more than 50 feet away from the roadway no railroad involvement is anticipated. A Railroad flagging permit will not be necessary.

### **Cold-In-Place Recycle**

Cold-In-Place Recycle (CIR) does not appear to be a viable construction activity for this project. The length of the project is too short to accommodate a cold in place operation. Because CIR typically involves an overlay the cost associated with CIR is too expensive and will not be used.

### **Maintenance Items**

Removing the debris from under the two bridges was discussed with maintenance during the field review. Maintenance will clean out the debris.

### **Intelligent Transportation Systems (ITS) Features**

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

### **Survey**

Due to the limited scope of this project, no survey is necessary.

### **Public Involvement**

Due to the limited scope of the project, a Level A Public involvement plan is appropriate. The plan will include a news release explaining the project and a department point of contact.

### **Environmental Considerations**

No apparent significant environmental issues have been identified. It is anticipated that the project meets the criteria for the Statewide Programmatic Categorical Exclusion. 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**

There are currently no experimental features planned for this project.

### **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:

- At least 1 lane will be maintained to allow two way traffic

## Preliminary Field Review/Scope of Work Report

STPP 80-1(26)43, Arrow Creek - South  
 Project Manager: Christie W. McOmber & Steve Prinzing

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### Project Management

The Great Falls District will be responsible for the plans. Christie McOmber, P.E., Great Falls District Projects Engineer and Steve Prinzing, P.E., District Preconstruction Engineer will be the project managers through the design process.  
 This project is not under full FHWA oversight.

### Preliminary Cost Estimate

The project was nominated at \$1,036,409 with CN, IDC and Inflation. The items in the PFR Estimate are cold milling, overlay, seal and cover, shoulder gravel, bridge rail and guardrail. The estimated cost per mile is \$306,356.

Project Name		Estimate	Inflation (INF)	w/INF + IDC
		Costs	(from PPMS)	(from PPMS)
Road work		\$546,504		
Bridge Work		\$128,750		
Traffic Control		\$60,000		
<b>Subtotal</b>		<b>\$735,254</b>		
Mobilization	10%	\$73,525		
<b>Subtotal</b>		<b>\$808,779</b>		
Contingencies	25%	\$202,195		
<b>Total CN</b>		<b>\$1,010,974</b>	<b>\$44,504</b>	<b>\$1,172,426</b>
<b>CE</b>	<b>10%</b>	<b>\$101,097</b>	<b>\$4,450</b>	<b>\$117,243</b>
IDC:	11.08%		<b>TOTAL</b>	<b>\$1,289,668</b>
<b>Inflation Factor (ppms)</b>			<b>0.044021202</b>	

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 11.08% as of FY 2013.

### Ready Date

The anticipated ready date is January 2013. The project has an anticipated letting date of January 2014.

### Site Map

The project site map is attached.

**Preliminary Field Review/Scope of Work Report**

STPP 80-1(26)43, Arrow Creek - South

Project Manager: Christie W. McOmber & Steve Prinzing

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**FEDERAL AID PROJECT STPP 80-1(26)43  
MILL, OVERLAY, SEAL AND COVER  
ARROW CREEK - SOUTH  
CHOUTEAU COUNTY**

LENGTH 3.3 MILES

