



Montana Department of Transportation

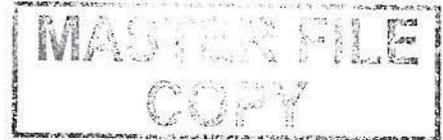
2701 Prospect Avenue
PO Box 201001
Helena MT 59620-1001

Timothy W. Reardon, Director
Brian Schweitzer, Governor

RECEIVED

FEB 16 2012

ENVIRONMENTAL



February 14, 2012

Kevin McLaury
Division Administrator
Federal Highway Administration
585 Shepard Way
Helena MT 59601

Subject: Programmatic Categorical Exclusion (PCE) Concurrence Request
HSIP 25(70)
SF099 Hauser Dam/Little Wolf Creek Road
CN: 7198000

Dear Kevin McLaury:

This submittal requests approval of the above-mentioned proposed project as a Categorical Exclusion under the provisions of 23 CFR 771.117(d) and the Programmatic Agreement as signed by MDT and FHWA on April 12, 2001. This proposed action also qualifies as a Categorical Exclusion under ARM 18.2.261 (MCA 75-1-103 and MCA 75-1-201).

The following form provides documentation required to demonstrate that all of the conditions are satisfied to qualify for a Programmatic Categorical Exclusion. A copy of the Preliminary Field Review/Scope of Work Report, dated December 8, 2010, including a project location map, is attached. In the following form, "N/A" indicates not applicable; "UNK" indicates unknown.

NOTE: A response in a large box will require additional documentation for a Categorical Exclusion request in accordance with 23 CFR 771.117(d).

Table with 4 columns: Question, Yes, No, N/A, UNK. Contains 3 main questions and 4 sub-questions regarding environmental impact, unusual circumstances, and right-of-way requirements.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>UNK</u>
5. Parks, recreational, or other properties acquired/improved under Section 6(f) of the 1965 National Land & Water Conservation Fund Act (16 USC 460L, <i>et seq.</i>) are on or adjacent to the proposed project area.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The use of such Section 6(f) sites would be documented and compensated with the appropriate agencies (MDFWP, local entities, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Sites either on, or eligible for the National Register of Historic Places with concurrence in determination of eligibility or effect under Section 106 of the National Historic Preservation Act (16 USC 470, <i>et seq.</i>) by the State Historic Preservation Office (SHPO) would be affected by this proposed project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Parks, recreation sites, school grounds, wildlife refuges, historic sites, historic bridges, or irrigation that might be considered under Section 4(f) of the 1966 US Department Of Transportation Act (49 USC 303) are on or adjacent to the project area.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
a. The proposed project would not impact the site(s), so a 4(f) evaluation is not necessary.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. A de minimis finding has been secured for this project.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Nationwide Programmatic Section 4(f) Evaluation forms for those sites are attached.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. This proposed project requires a full Section 4(f) Evaluation.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
B. The activity would involve work in a streambed, wetland, and/or other water body (ies) considered as "waters of the United States" or similar (e.g., "state waters").	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. Conditions set forth in Section 10 of the Rivers and Harbors Act (33 USC 403) and/or Section 404 of the Clean Water Act (33 USC 1251-1376) codified at 33 CFR 320-330 would be met.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Impacts in wetlands, including but not limited to those referenced under Executive Order (EO) #11990, and proposed mitigation would be coordinated with the US Army Corps of Engineers and other Resource Agencies (Federal, State, and Tribal) as required for permitting.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. A 124SPA would be obtained from the MDFWP.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. A delineated floodplain exists in the proposed project area under FEMA's Floodplain Management criteria.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
The water surface at the 100-year flood limit elevation would exceed floodplain management criteria due to an encroachment by the proposed project.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. A Tribal Water Permit would be required.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Work would be required in, across, and/or adjacent to a river that is a component of, or proposed for inclusion in Montana's Wild and/or Scenic Rivers system as published by the US Department of Agriculture, or the US Department of the Interior.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>UNK</u>
The designated National Wild and/or Scenic River systems in Montana are:				
a. Middle Fork of the Flathead River (headwaters to South Fork confluence).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. North Fork of the Flathead River (Canadian Border to Middle Fork confluence).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. South Fork of the Flathead River (headwaters to Hungry Horse Reservoir).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Missouri River (Fort Benton to Charles M. Russell National Wildlife Refuge).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
In accordance with Section 7 of the Wild and Scenic Rivers Act (16 USC 1271 – 1287), this work would be coordinated and documented with either the Flathead National Forest (Flathead River), or US Bureau of Land Management (Missouri River).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. This is a "Type I" action as defined under 23 CFR 772.5(h), which typically consists of highway construction on a new location or the physical alteration of an existing route which substantially changes its horizontal or vertical alignments or increases the number of through-traffic lanes.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1. If yes, are there potential noise impacts?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. A Noise Analysis would be completed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. There would be compliance with the provisions of both 23 CFR 772 for FHWA's Noise Impact analyses and MDT's Noise Policy.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D. Substantial changes in access control would be associated with the proposed project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If yes, would they result in extensive economic and/or social impacts on the affected locations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
E. The use of a temporary road, detour, or ramp closure having the following conditions when the action(s) associated with such facilities:				
1. Provisions would be made for access by local traffic, and be posted for same.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Adverse effects to through-traffic dependant businesses would be avoided or minimized.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Interference to local events would be minimized to all possible extent.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Substantial controversy associated with this pending action would be avoided.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F. Hazardous wastes /substances, as defined by the US Environmental Protection Agency (EPA) and/or the Montana Department of Environmental Quality (MDEQ), and/or (a) listed "Superfund" (under CERCLA or CECRA) site(s) are currently on and/or adjacent to this proposed project.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	<u>Yes</u>	<u>No</u>	<u>N/A</u>	<u>UNK</u>
All reasonable measures would be taken to avoid and/or minimize substantial impacts from same.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
G. The Stormwater Discharge conditions (ARM 17.30.1101-1117), including temporary erosion control features for construction would be met.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
H. Permanent desirable vegetation with an approved seeding mixture would be established on exposed areas.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
I. Documentation of an invasive species review to comply with both EO #13112 and the County Noxious Weed Control Act (7-22-2152, MCA), including directions as specified by the county(ies) wherein its intended work would be done would be conducted.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
J. There are "Prime" or "Prime if Irrigated" Farmlands designated by the Natural Resources Conservation Service on or adjacent to the proposed project area. If the proposed work would affect Important Farmlands, then an AD 1006 Farmland Conversion Impact Rating form would be completed in accordance with the Farmland Protection Policy Act (7 USC 4201, <i>et seq.</i>).	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K. Features for the Americans with Disabilities Act (PL 101 336) compliance would be included.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
L. A written Public Involvement Plan would be completed in accordance with MDT's Public Involvement Handbook.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. This proposed project complies with the Clean Air Act's Section 176(c) (42 USC 7521(a), as amended) under the provisions of 40 CFR 81.327 as it is either in a Montana air quality:				
A. "Unclassifiable"/attainment area. This proposed project is not covered under the EPA's September 15, 1997 Final Rule on air quality conformity and/or	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. "Nonattainment" area. However, this type of proposed project is either exempted from the conformity determination requirements (under EPA's September 15, 1997 Final Rule), or a conformity determination would be documented in coordination with the responsible agencies (Metropolitan Planning Organizations, MDEQ Air Quality Division, etc.).	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C. Is this proposed project in a "Class I Air Shed" under 40 CFR 52.1382(c)(3)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Federally listed Threatened or Endangered (T/E) Species:				
A. Recorded occurrences, and/or critical habitat are in the vicinity of the proposed project.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B. Would this proposed project result in a "jeopardy" opinion (under 50 CFR 402) from the Fish and Wildlife Service on any Federally listed T/E Species?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

The proposed project would not induce significant land use changes, nor promote unplanned growth. No significant effects on access to adjacent property or to present traffic patterns would occur.

This proposed project would not create disproportionately high and/or adverse impacts on the health or environment of minority and/or low-income populations (EO #12898). The project also complies with the provisions of Title VI of the Civil Rights Act of 1964 (42 USC 2000d) under FHWA regulations (23 CFR 200).

In accordance with the provisions of 23 CFR 771.117(a), this pending action would not cause significant individual, secondary, or cumulative environmental impacts. FHWA concurrence that this proposed project is properly classified as a Categorical Exclusion is requested.



Date: 2/14/2012

Eric Thunstrom
Environmental Services Bureau
Great Falls District Project Development Engineer

Concur 

Date: 2/14/12

Heidy Bruner, P.E.
Environmental Services Bureau
Engineering Section Supervisor

Concur 

Date: 15 FEB 2012

Federal Highway Administration

Attachment

electronic copies without attachment:

Tom Martin, P.E.	Environmental Services Bureau Chief
Heidy Bruner, P.E.	Environmental Services Bureau Engineering Section Supervisor
Michael P. Johnson	Great Falls District Administrator
Kent Barnes, P.E.	Bridge Engineer
Paul Ferry, P.E.	Highways Engineer
Mark Goodman, P.E.	Hydraulics Engineer
Rob Stapley	Right-of-Way Bureau Chief
Tim Conway, P.E.	Consultant Design Engineer
Gabe Priebe, P.E.	Consultant Project Engineer
Nicole Pallister	Fiscal Programming Section Supervisor
Tom Erving	Fiscal Programming Section
Steve Prinzing, P.E.	Great Falls District Engineering Services Supervisor
Suzy Price	Contract Plans Bureau Chief
Tim Tilton	Contract Section Supervisor
Vacant	Great Falls District Environmental Engineering Specialist
Montana Legislative Branch Environmental Quality Council (EQC)	

copies with attachment:

File Environmental Services Bureau

MDT attempts to provide accommodation for any known disability that may interfere with a person participating in any service, program or activity of the Department. Alternative accessible formats of this information will be provided upon request. For further information, call 406.444.7228 or TTY (800.335.7592) or call Montana Relay at 711.



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

Memorandum

To: ~~Distribution~~

From: *DW* Duane E Williams P.E., Traffic and Safety Engineer

Date: December 8, 2010

Subject: HSIP 25(70)
 SF099 Hauser Dam/ Little Wolf Creek Road
 UPN 7198000
 Work Type: 310-Roadway and Roadside Safety Improvements



Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on Dec 9, 2010. 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, Great Falls 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 |
| Duane Williams, Traffic and Safety Engineer | Jon Swartz, Maintenance Administrator |
| Rob Stapley, Right-of-Way Bureau Chief | Eric Griffin, Lewis and Clark County Public Works Director |
| Paul Ferry, Highways Engineer | |

cc:

- | | |
|---|---|
| Dave Jensen, Fiscal Programming, Section Supervisor | Ivan B. Ulberg, Traffic Project Engineer |
| Michael S. DalSoglio, Consultant Project Engineer | <input checked="" type="checkbox"/> Consultant Design Bureau Project File |

e-copies:

- | | |
|---|---|
| Jim Walther, 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, District Materials Lab |
| Bonnie Gundrum, Env. Bureau Resources Sec. Sup. | Dave Hand, Great Falls District Maintenance Chief |
| Paul Sturm, District Biologist | Walt Scott, R/W Utilities Section Supervisor |
| Eric Thunstrom, District Project Development Engineer | Dave Hoerning, R/W Design Manager |
| Danielle Bolan, Traffic Engineer | Greg Pizzini, Acquisition Manager |
| Ivan Ulberg, District Traffic Project Engineer | Joe Zody, R/W Access Management Section Manager |
| Pierre Jomini, Safety Management Engineer | Paul Johnson, Planning Division |
| Jason Sorenson, Engineering Cost Analyst | Sue Sillick, Research Section Supervisor |
| Marty Beatty, Engineering Information Services | Jean Riley, Planner |
| Paul Grant, Public Involvement Officer | |



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

Memorandum

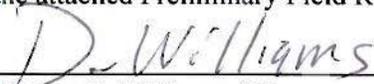
To: Duane E Williams P.E., Traffic and Safety Engineer

From:  Roy A. Peterson, P.E., Consultant Plans Engineer

Date: October 13, 2010

Subject: HSIP 25(70)
SF099 Hauser Dam/ Little Wolf Creek Road
UPN 7198000
Work Type: 310-Roadway and Roadside Safety Improvements

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

Approved  Date Dec 9, 2010
Duane E. Williams, P.E.
Traffic and Safety 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.):
Tim J. Conway, Consultant Design Engineer
Duane E Williams, traffic and Safety Engineer

Preliminary Field Review/Scope of Work Report

HSIP 25(70), SF099 Hauser Dam/ Little Wolf Creek Road, UPN 7198000
Project Manager: Michael S. DalSoglio

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Introduction

The field review for the subject project was held Wednesday, August 18, 2010 with the following personnel in attendance:

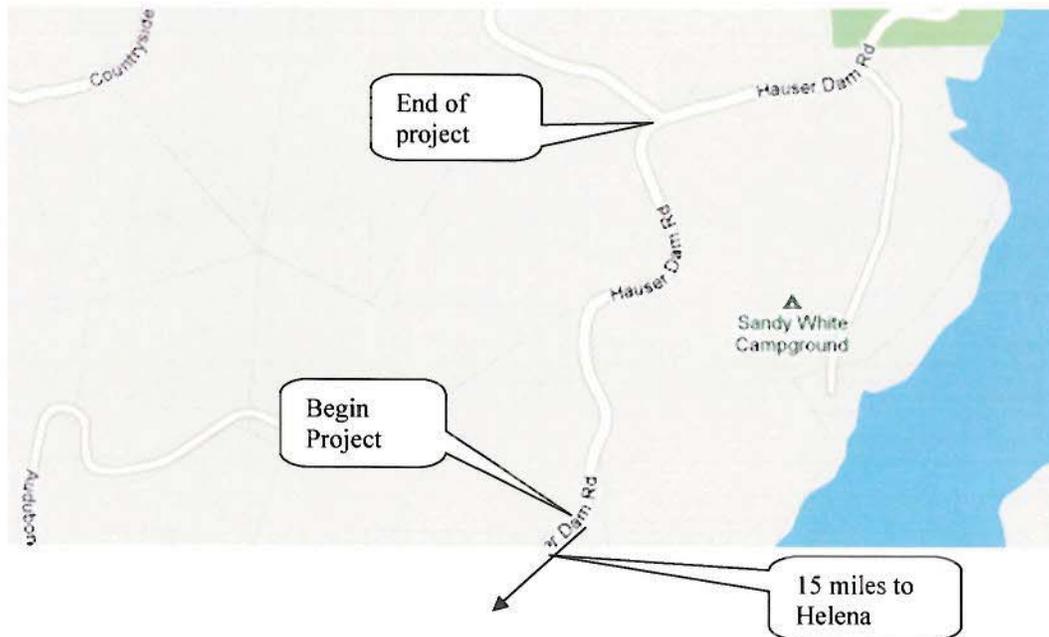
<u>Name</u>	<u>Representing</u>	<u>Telephone Number</u>
Steve Prinzing	MDT-Great Falls	454-5899
Michael S. DalSoglio	Consultant Design Bureau	444-6250
Will Tangen	Consultant Design Bureau	444-6209
Jim Cornell	Traffic Bureau	444-6222
Wayne Effertz	Lewis and Clark Road/Bridge Manager	447-8031

Proposed Scope of Work

The proposed project has been nominated through the Safety Engineering Improvement Program to install road signs at Site 1 and realignment/slope flattening at Site 2. Both locations are off-system Lewis and Clark County road locations. The locations are as follows:

Improvement Site 1:

- L-25-123 (Hauser Dam Road), Northeast of Helena beginning at R.P. 10.6± and extending to R.P. 11.3±. The recommendation at this location consists of installing winding road warning signs with advisory speed plates at the beginning and end of the project.



Preliminary Field Review/Scope of Work Report

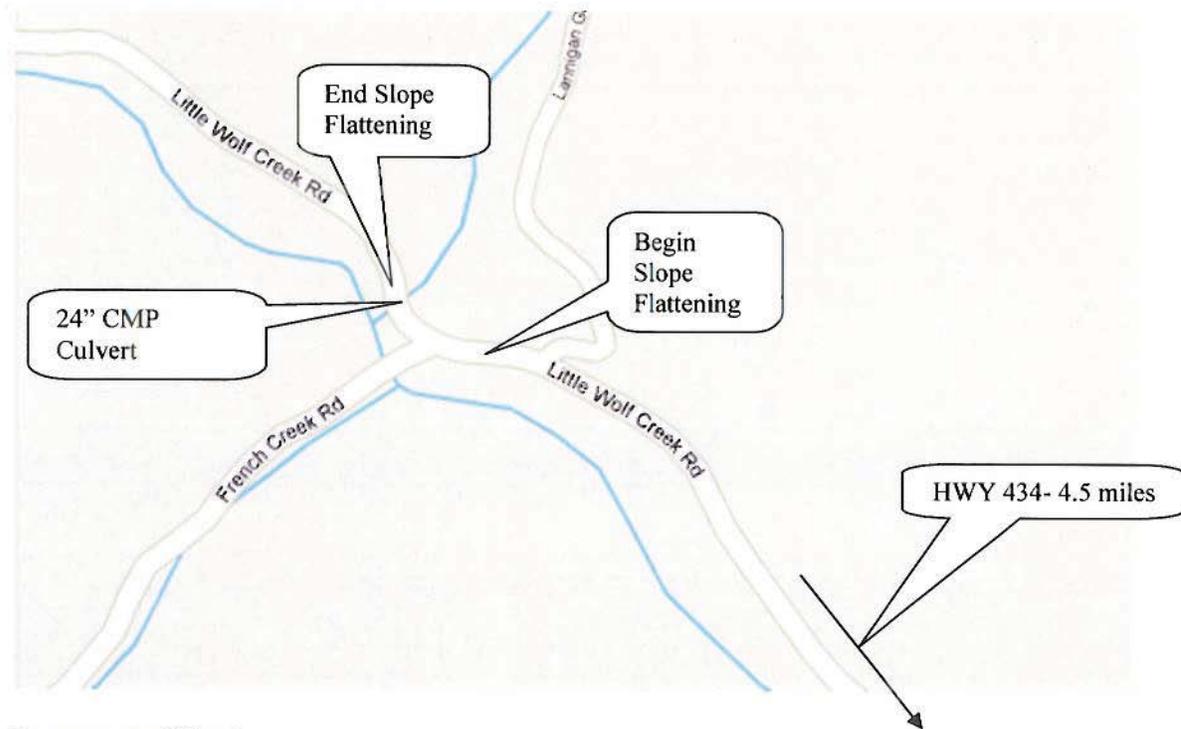
HSIP 25(70), SF099 Hauser Dam/ Little Wolf Creek Road, UPN 7198000

Project Manager: Michael S. DalSoglio

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Improvement Site 2:

L-25-220 (Little Wolf Creek Road), beginning at R.P. 4.2± and extending to R.P. 4.8±. The recommendation at this location is to slope flatten to improve visibility for oncoming traffic.



Purpose and Need

The intent of this project is to address crash clusters identified at these two location involving speed/curve related crashes and inattentive driving.

Work Zone Safety and Mobility

Level 3 construction zone impacts are planned for this project as defined in the Work Zone Safety and Mobility (WZSM) guidance. The work impact is expected to be low to the traveling public. Construction time is expected to be short.

Physical Characteristics

Both Improvement Sites 1 and 2 are in mountainous rural settings. The posted speed for the off-system road for Improvement Site 1 is 35 mph. There was no posted speed for Improvement Site 2. At the time of the field review, Lewis and Clark County stated that all design work should be based on 35 mph. The gravel two lane roadway widths vary from 30 feet at Site 1 and 26 feet at Site 2. Both sites are maintained by county forces.

Traffic Data

There is no traffic data available for these improvements sites. No traffic data was requested because the improvements can be installed without this traffic data.

Crash Analysis

L25-123 (Hauser Dam Road) RP 10.6± to R.P. 11.3±: A total of 8 crashes occurred within this segment. Four of the crashes resulted in a head-on collision with another vehicle while negotiating a curve in the roadway. The remaining four crashes were single-vehicle run-

Preliminary Field Review/Scope of Work Report

HSIP 25(70), SF099 Hauser Dam/ Little Wolf Creek Road, UPN 7198000
Project Manager: Michael S. DalSoglio

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off-the-road crashes on curves resulting in two vehicles overturning. A benefit-cost analysis was performed from the dates January 1, 1997 through December 31, 2006, with the aforementioned crash information, yielding a benefit-to-cost ratio of 7.78.

L-25-220 (Little Wolf Creek Road) RP 4.2 to RP 4.8: A total of 8 crashes occurred within this segment. Three of the crashes resulted in a head-on collision with another vehicle while negotiating a curve in the roadway. The remaining 5 crashes were single-vehicle run-off-the-road crashes on a curve, resulting in three vehicles overturning. A benefit-cost analysis was performed from the dates January 1, 1997 through December 31, 2006, with the aforementioned crash information, yielding a benefit-to-cost ratio of 12.42.

The intent of the project is to address crash clusters identified involving speed/curve related crashes. The installations of these improvements will call attention to the curves and should reduce the number of vehicle crashes through these locations.

Major Design Features

- a. **Design Speed.** The design speed for a rural local road is 45 mph. The posted speed limit for Improvement Site 1 is 35 mph. Little Wolf Creek Road was not posted. According to the Lewis and Clark County Road/Bridge Manager, the design speed should be 35 mph.
- b. **Horizontal Alignment.** The horizontal alignment will not change.
- c. **Vertical Alignment.** Depending on the design, the vertical alignment may be raised slightly as a means of wasting material.
- d. **Typical Sections and Surfacing.** The gravel typical section will not change.
- e. **Geotechnical Considerations.** There will be no involvement.
- f. **Hydraulics.** At Improvement Site 2, there is an existing 24" CMP that may require lengthening to accommodate the proposed road work.
- g. **Bridges.** There will be no involvement.
- h. **Traffic.** No changes are proposed to the traffic pattern.
- i. **Pedestrian/Bicycle/ADA.** There will be no involvement.
- j. **Miscellaneous Features.** No miscellaneous features.
- k. **Context Sensitive Design Issues.** No issues needing to be addressed.

Other Projects

No other projects will affect the delivery of this project.

Location Hydraulics Study Report

There will be no involvement.

Design Exceptions

No design exceptions needed.

Right-of-Way

According to the Lewis and Clark County Road/Bridge Manager, all surrounding property is owned by the DNRC and has committed to providing the necessary R/W. The county will handle all R/W negotiations.

Cold-In-Place Recycle

There will be no involvement.

Preliminary Field Review/Scope of Work Report

HSIP 25(70), SF099 Hauser Dam/ Little Wolf Creek Road, UPN 7198000
Project Manager: Michael S. DalSoglio

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Access Control

There will be no involvement.

Utilities/Railroads

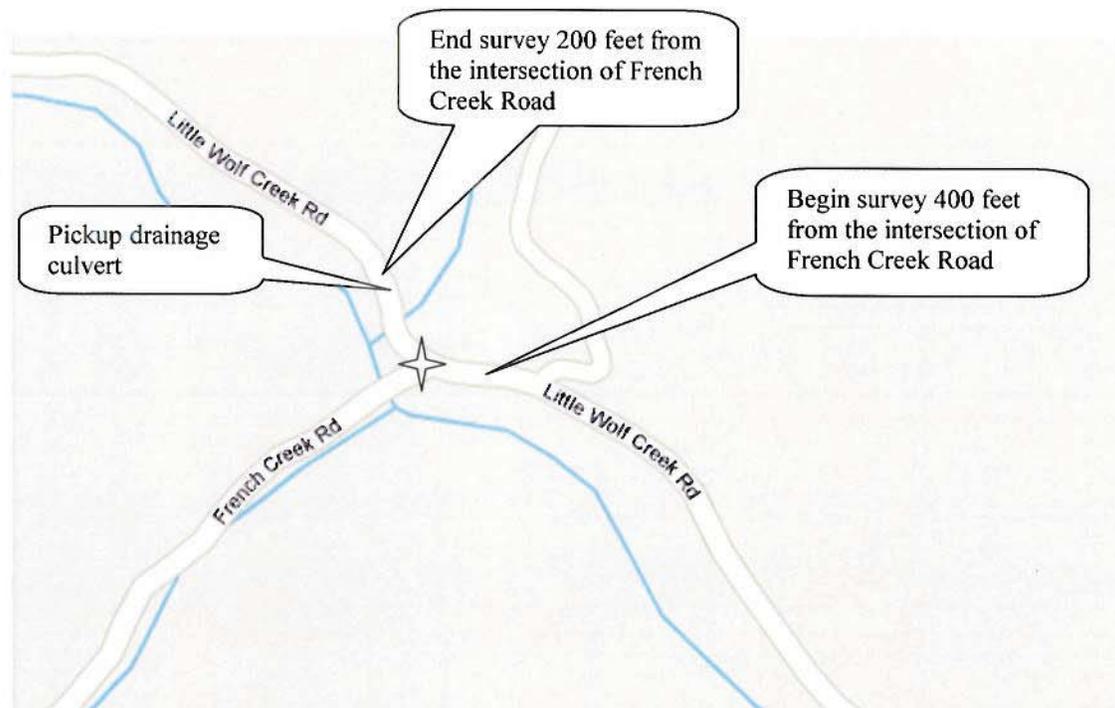
No utilities or railroads will be affected by this project.

Intelligent Transportation Systems (ITS) Features

No ITS applications.

Survey

See attached survey request.



Public Involvement

Level A public involvement is required. A news release will be sent to the local media with a point of contact for the department.

Environmental Considerations

No significant environmental impacts or issues were identified. A Categorical Exclusion is anticipated for this project. The environmental document will be completed prior to SOW approval.

Energy Savings/Eco-Friendly Considerations

There will be no involvement.

Experimental Features

There will be no involvement.

Preliminary Field Review/Scope of Work Report

HSIP 25(70), SF099 Hauser Dam/ Little Wolf Creek Road, UPN 7198000
Project Manager: Michael S. DalSoglio

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Traffic Control

The Traffic Control will be in accordance with the MUTCD. The Traffic Control Plan will be included in a special provision for both locations. Shoulder and one-way traffic control will be the type of closures needed for installing the improvements.

Project Management

The Consultant Design Bureau will be responsible for the road design portion and Traffic – Signing Section will be responsible for the development of the signing plan set. Michael S. DalSoglio will be the Project Manager (444-6250).

Preliminary Cost Estimate

Include the estimated cost that has been programmed to construct the project. Also show this estimate using a cost per mile (kilometer) basis if available/appropriate. The cost estimate should be adjusted using the inflation factor based on the project's anticipated letting date from PPMS.

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	\$200,000.00		
New Structure	0.00		
Remove Structure	0.00		
Detour	0.00		
Traffic Control	\$20,000.00		
Subtotal	\$220,000.00		
Mobilization (10%)	\$22,000.00		
Subtotal	\$242,000.00		
Contingencies (10%)	\$24,200.00		
Total CN	<u>\$266,200.00</u>	<u>\$ 48,894.00</u>	<u>\$357,159.00</u>
CE (10%)	<u>\$26,620.00</u>	<u>\$4,889.00</u>	<u>\$35,716.00</u>
TOTAL CN+CE	<u>\$292,820.00</u>	<u>\$ 53,783.00</u>	<u>\$392,875.00</u>

Ready Date

Ready date and OPX2 schedule will be set for this project upon approval of this report.

Site Map

The project site map is attached.

Project No. HSIP 25(70)
Date of Review: 8/18/2010
Proposed Letting Date: 2011

Project Name: SF099 Hauser Dam/ Little Wolf Creek Road
Control No. 7198
Work Type: 310-Roadway and Roadside Safety Improvements

SURVEY REQUEST

Aerial Survey Considerations

AERIAL SURVEY

YES NO

Comments: [Click here to enter comments.](#)

PHOTOGRAMMETRY TO PROVIDE

- 1) **Digital Terrain Model**
(Strip map containing planimetric features, spot elevations, break lines, etc. for use in Geopak)
Comments: [Click here to enter comment.](#)
- 2) **Contour Mapping**
(Special request independent of DTM)
Comments: [Click here to enter comment.](#)
Specify contour intervals: [Click here to enter text.](#)
- 3) **Cross Sections**
(Special request independent of DTM)
Comments: [Click here to enter comments.](#)
- 4) **Orthophotos** **Proposed Scale** [Click here to enter Proposed Scale.](#)
Comments: [Click here to enter comments.](#)
- 5) **Hydraulic Requirements**
(To be completed during or after PFR)
(Designate limits of aerial photo and mapping coverage required as well as location of any cross sections on a quad map or existing photo.)
Comments: [Click here to enter comments.](#)

NOTE: As standard practice, Photogrammetry will provide mapping 500 feet (150 meters) on each side of all alignments or alternate alignments described in the Preliminary Field Review. For rural projects, standard mapping will be developed with a 3 foot (1 meter) contour interval or in the case of DTM mapping, for generation of 3 foot (1 meter) contours. For projects entirely within urban limits or for bridge specific projects, mapping will be developed with a 2 foot (1/2 meter) contour interval or for generation of 2 foot (1/2 meter) contours with DTM mapping. Mapping limits, photo limits, and/or contour intervals outside the described standards will be accommodated provided specifics are included in the comments.

Project No. HSIP 25(70)
Date of Review: 8/18/2010
Proposed Letting Date: 2011

Project Name: SF099 Hauser Dam/ Little Wolf Creek Road
Control No. 7198
Work Type: 310-Roadway and Roadside Safety Improvements

Field Survey Considerations

Contact Person (Helena): Mike DalSoglio 444-6250
Lead Area (Br., Rd., etc.): Consultant Design

FIELD SURVEY TO PROVIDE:

[Click here to enter info.](#)

CONTROL SURVEY

Level Datum Selection:

- Assumed
 As-built
 NAVD 1988

Horizontal Datum

- 1) State Plane Coordinates (requires GPS control survey)
 2) Local Datum (i.e., 10,000 10,000)

Basis of Bearing: Solar As-built Other [Click here for Other.](#)

Comments: [Click here to enter comments.](#)

-
- 1) **Digital Terrain Model/XYZ Survey**
(Includes Geopak mapping requirements: ground shots, spot elevs., break lines, planimetric features, strip map, inverts, etc.)
 Specify corridor width: 100 feet left and 150 feet right
Comments: Include shots that describe the roadway typical section, ditch, shoulder, centerline etc.
- 2) **Alignment/Cross Sections**
(Special request independent of DTM, staked, cross section interval and offsets, etc.)
Comments: [Click here to enter comments.](#)
- 3) **Utilities**
 Locate all utilities by: Dept. Forces S.U.E. Forces
Comments/Exceptions: [Click here to enter comments.](#)
 Other non-utility underground information that should be provided by S.U.E.
Comments: [Click here to enter comments.](#)
 Strip map with closed traverse and vertical control information will be available for S.U.E. by [Click here to enter text.](#)

Utility/Other	Location	Survey Requirements depth/height
Gas	<input type="checkbox"/> Click here to enter text.	Click here to enter text.
Water	<input type="checkbox"/> Click here to enter text.	Click here to enter text.
Power	<input type="checkbox"/> Click here to enter text.	Click here to enter text.
Sanitary Sewer	<input type="checkbox"/> Click here to enter text.	Click here to enter text.
Fiber Optics	<input type="checkbox"/> Click here to enter text.	Click here to enter text.

Project No.	HSIP 25(70)	Project Name:	SF099 Hauser Dam/ Little Wolf Creek Road
Date of Review:	8/18/2010	Control No.	7198
Proposed Letting Date:	2011	Work Type:	310-Roadway and Roadside Safety Improvements

Other

[Click here to enter text.](#)

[Click here to enter text.](#)

Note: Please obtain any other utility not specifically identified above.

- X 4) **Existing Culvert Survey**
(xyz, size, length, invert, type, end section, cleaning requirements, etc. for all culverts.)

- 5) **Supplement to Photo Mapping**
(Field check photogrammetric mapping, check cross sections, map editing, underground utilities, etc. pick up items.) Page 5-24, Survey Manual

RIGHT-OF-WAY TIES

Extent of existing R/W monumentation visible, comments:

[Click here to enter comments.](#)

- Tie Project BOP & EOP (With as-built stations)

- ROW, Property & Section Corners (Identified by R/W after PFR)
(R/W will supply the specific requests for which entities to tie. This will take approximately 30-45 days after PFR.)

Comments: [Click here to enter comments.](#)

SOIL SURVEY (Includes corrosive soil report, pipe condition, R-values.)

Topsoil Report

Project No.	HSIP 25(70)	Project Name:	SF099 Hauser Dam/ Little Wolf Creek Road
Date of Review:	8/18/2010	Control No.	7198
Proposed Letting Date:	2011	Work Type:	310-Roadway and Roadside Safety Improvements

Special Hydraulic Considerations

(Refer to Chapter 10, Survey Manual)

Contact Person: [Click here to enter Contact Person.](#)

WATERWAYS

Existing Bridge Site Survey YES NO

Location: [Click here to enter Location.](#)

Hyd-1: Section required 1 2 3 4 5 6 7 8 all

River Cross-Sections – location & width: [Click here to enter text.](#)

DTM Mapping (extent, intervals): (Strip map containing planimetric features, spot elevations, break lines, etc. for use in Geopak)

Include topog. Of existing (piers, abutments, low beam elev., etc. [Click here to enter text.](#)

Comments: [Click here to enter comments.](#)

Existing Large Culvert Site Survey YES NO

(Hyd-1 not required when photo mapping is available.)

Location: [Click here to enter Location.](#)

length invert elevations

Hyd-1: Section required 1 2 3 4 5 6 7 8 all

Comments: [Click here to enter comments.](#)

IRRIGATION SURVEY YES NO

Location: [Click here to enter Location.](#)

length invert elevations

Hyd-1: Section required 1 2 3 4 5 6 7 8 all

Comments: [Click here to enter comments.](#)

URBAN SURVEY YES NO

Location: [Click here to enter Location.](#)

Supplemental DTM Mapping (Strip map containing planimetric features, spot elevations, break lines, threshold elevs, width of corridor, etc. for us in Geopak.)

Comments: [Click here to enter comments.](#)

Storm Drain Outfall/Location: [Click here to enter text.](#)

Comments: [Click here to enter comments.](#)

ADDITIONAL HYDRAULIC SURVEY REQUIREMENTS:

[Click here to enter text.](#)

Standard Disclaimer: Not all portions required on a typical survey can be included in this document. Typical users of this form should use judgement in determining any additional or extraordinary information required to fulfill the intent of this document. The Survey Manual should be used in conjunction with work types, project types and this form to portray a complete survey.

Project No.	HSIP 25(70)	Project Name:	SF099 Hauser Dam/ Little Wolf Creek Road
Date of Review:	8/18/2010	Control No.	7198
Proposed Letting Date:	2011	Work Type:	310-Roadway and Roadside Safety Improvements

Special Wetland Considerations

Contact Person in Environmental: [Click here to enter Contact Person.](#)

NOTE: This request area for STAND-ALONE WETLAND MITIGATION projects ONLY.

Please complete Aerial/Field Survey portions as appropriate.

Comments: [Click here to enter comments.](#)