



Montana Department of Transportation

2701 Prospect Avenue  
PO Box 201001  
Helena MT 59620-1001

Michael T. Tooley, Director  
Steve Bullock, Governor

January 29, 2014

Brian Hasselbach  
Federal Highway Administration (FHWA)  
585 Shepard Way  
Helena MT 59602



Subject: Statewide Programmatic Categorical Exclusion for Pavement Preservation Projects  
STPP 19-1(53)14  
WEST VALLEY - GEORGETOWN  
Control Number: 8111000

Dear Brian Hasselbach:

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 Barry Brosten at 444.0804 or me at 444.7203. We will be pleased to assist you.

Sincerely,

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

Attachments: PFR/SOW Report, Environmental Checklist

Enclosure

e-copies w/checklist encl.:

Jeff Ebert, Butte District Administrator  
Tom Martin, P.E., Environmental Service Bureau Chief  
Heidy Bruner, P.E., ESB Engineering Section Supervisor  
Paul Ferry, P.E., Highways Engineer  
Suzy Price, Contract Plans Bureau Chief  
Lisa Hurley, Fiscal Programming Section Supervisor  
Tom Erving, Fiscal Programming  
Montana Legislative Branch Environmental Quality Council  
File

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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 19-1(53)14 Control No.: 8111000 Project Name: West Valley - Georgetown

Reference Post (Station): 14.1 To Reference Post (Station): 26.9

Applicant's Name: MDT - Butte District Address: PO Box 3068; Butte, MT 59702-3068

Type of Proposed Pavement Preservation Activity: Mill & Fill, Seal & Cover, Pavement Markings

Table with 3 columns: Impact Questions, [Y/N] There are Potential Impacts, or Item Requires Documentation, Evaluation, Mitigation Measures, and/or (a) Permit(s), and Comment (Use attachments if necessary). Rows include questions about Wild or Scenic Rivers, threatened species, water quality, MS4 permits, wetlands, hazardous materials, Indian Reservations, and Air Sheds.

Checklist prepared by:

Joe Walsh
Applicant

District Projects Engineer
Title

12/19/2013
Date

Approved by:

Handwritten signature of Joe Walsh
Environmental Services

Click here to enter text
Title

1/30/2014
Click here to enter a date.
Date

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

**Project Number: STPP 19-1(53)14 Control No.: 8111000 Project Name: West Valley - Georgetown**

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.

**Comments regarding Impact Question No. 2a. and 2b.**

MDT Environmental Services Biological Resources staff will evaluate the possibility of Threatened and Endangered species in the vicinity of the project area. Appropriate Special Provisions will be included in the Plans Package as necessary.

**Comments regarding Impact Question No. 3a, 3b. and No. 4a, 4b**

The following statement or an updated version will be included on the NOTES page of the Plan Package:

**TEMPORARY EROSION AND SEDIMENT CONTROL**

If situations are observed during construction that may potentially impact water quality, including wetland areas, utilize Best Management Practices (BMP) and/or temporary erosion control measures as necessary to protect the resource. Refer to Section 208 of the MDT Detailed Drawings for erosion and sediment control Best Management Practices.

Additionally, the following Special Provision or an updated version will be included in the Plan Package.

**PROTECTION OF WETLAND AREAS AND OTHER DRAINAGES**

Impacts to any and all wetland areas and other drainages including spring, perennial, ephemeral or intermittent drainages, streams and rivers, located adjacent to the project are not anticipated in association with this project. MDT has NOT acquired any water quality permits or authorizations, including a Clean Water Act Section 404 permit (COE), a Stream Protection Act 124 notification (MFWP), or a 318 Authorization (DEQ). Therefore, impacts to any and all wetland areas and other drainages located adjacent to the project are not permitted. Avoid all equipment traffic, fill material, staging activities and other disturbances to the wetland areas and other drainages.

If complete avoidance of all impacts to these areas is not possible, contact the District Biologist at 444-0461 or the Construction Permit Coordinator at 494-9612, so that the proper permits can be secured prior to working in these areas. Any impacts to these areas and associated consequences, without the proper permitting, are the responsibility of the Contractor.



**Memorandum**

To: Distribution

From: Paul Ferry, P.E.  
 Highways Engineer

Date: December 13, 2013

Subject: STPP19-1(53)14  
 West Valley - Georgetown  
 UPN-8111000  
 Project Work Type 183- Resurfacing – Seal & Cover

Attached is the Preliminary Field Review Report/Scope of Work Report which was approved on \_\_\_\_\_. We request that those on the distribution review this report and submit your concurrence within two weeks of the approval date.

Your comments and recommendations are also requested if you do not concur or concur subject to certain conditions. When all personnel on the distribution list have concurred, and the environmental documentation is approved, we will submit this report to the Preconstruction Engineer for approval.

I recommend approval:

Approved \_\_\_\_\_ Date \_\_\_\_\_

Distribution:

Jeff Ebert, Butte District Administrator  
 Kent Barnes, Bridge Engineer  
 Paul Ferry, Highways Engineer  
 Roy Peterson, Traffic and Safety Engineer  
 Robert Stapley, Right-of-Way Bureau Chief

Tom Martin, Environmental Services Bureau Chief  
 Lynn Zanto, Rail, Transit, & Planning Division Administrator  
 Jake Goettle, Construction Engineering Services Bureau  
 Matt Strizich, Materials Engineer  
 Jon Swartz, Maintenance Administrator  
 Jeff Patten - FHWA

cc:

Joe Walsh, Project Design Manager, Butte District  
 Master file

Dawn Stratton, Fiscal Programming Section  
 Damian Krings, Road Design Engineer

e-copies:

Jim Walther, Engineering, Preconstruction Engineer  
 Lesly Tribelhorn, Highways Design Engineer  
 Mark Goodman, Hydraulics Engineer  
 Walt Ludlow, Butte District Hydraulics Engineer  
 Bill Semmens, Env. Resources Section Supervisor  
 Deb Wambach, Butte District Biologist  
 Barry Brosten, Butte District Project Development Engineer  
 Danielle Bolan, Traffic Operations Engineer  
 Ivan Ulberg, Traffic Design Engineer  
 Leroy Wosoba, Butte District Traffic Project Engineer  
 Kraig McLeod, Safety Engineer  
 Nathan Haddick, Bridge Area Engineer, Butte District  
 Michael Grover, Engineering Cost Analyst  
 Marty Beatty, Engineering Information Services  
 Paul Grant, Public Involvement Officer  
 Sue Sillick, Research Section Supervisor  
 Suzy Price, Contract Plans Bureau Chief  
 Alyce Fisher, Fiscal Programming  
 Dawn Stratton, Fiscal Programming Section  
 Angela Zanin, Bicycle/Pedestrian Coordinator  
 Matt Maze, ADA Coordinator  
 Bill Rabey, Environmental  
 Marisa Mailand, Road Log Manager

Jake Goettle, Construction Bureau – VA Engineer  
 Dustin Rouse, Butte District Preconstruction  
 Joe Walsh, Butte District Projects Engineer  
 Mike Walsh, Butte District Materials Lab  
 Kam Wrigg, Butte District Maintenance Chief  
 Therese Iwaniak, Butte District Right of Way Supervisor  
 Phillip Inman, Utilities Engineering Manager  
 David Hoerning, R/W Engineering Manager  
 Greg Pizzini, Acquisition Manager  
 Joe Zody, R/W Access Management Section Manager  
 Matt Strizich, Materials Engineer  
 Daniel Hill, Pavement Analysis Engineer  
 Jeff Jackson, Geotechnical Engineer  
 Patrick McCann, Butte District Geotechnical Manager  
 Dave Cunningham Butte District Geotechnical  
 Bryce Larsen, Supervisor, Photogrammetry & Survey  
 Paul Johnson, Project Analysis Bureau  
 Jean Riley, Planner  
 Wayne Noem, Secondary Roads Engineer  
 Michael Murphy, Eng. Manager, Bridge Management System  
 Duane Williams, Motor Carrier Services Division Administrator  
 Becky Duke, Traffic Data Collection Section Supervisor (WIM)  
 Doug McBroom, Maintenance Division Operations Manager (RWIS)



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

**Memorandum**

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

From: *Dustin Rouse, P.E.*  
District Engineering Services Engineer

Date: *December 13, 2013*

Subject: *STPP 19-1(53)14*  
*West Valley - Georgetown*  
*UPN-8111000*  
Project Work Type 183 Resurfacing – Seal & Cover

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

Approved \_\_\_\_\_ Date \_\_\_\_\_  
*Paul 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 19-1(53)14, West Valley - Georgetown  
Project Manager : Dustin Rouse

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## Introduction

A Preliminary Field Review was held on August 5<sup>th</sup>, 2013 for the above noted project.

In attendance were:

Jim Davies – Butte Design Manager – Helena  
Stephen McEvoy– Pavement Analysis – Helena  
Dustin Rouse – District Engineering Services Supervisor – Butte  
Joe Walsh – Project Manager – Butte  
Kevin Mueller – Design Supervisor – Butte  
Deb Wambach – Environmental – Helena  
Brett Williams – Designer – Butte  
Jason Brazill – Designer - Butte

## Proposed Scope of Work

The project was nominated as a mill and fill, seal and cover project. It was determined during the PFR that due to the extensive cracking in the roadway, the appropriate treatment for the project will be a full width mill and fill from RP 23.8 to RP 26.9.

The proposed work will consist of crack seal, seal and cover from RP 14.1 to RP 23.8 and cold milling the existing pavement full width to a pavement depth of 0.15’ then replacing it with 0.15’ plant mix surfacing from RP 23.8 to RP 26.9. This project will also include pavement markings, guardrail end section replacement, rumble strips and minor bridge repairs.

## Purpose and Need

The purpose of the project is to extend the service life of the highway, provide additional skid resistance and take a cost-effective action to preserve and maintain the existing highway.

## Project Location and Limits

The project is located in Deer Lodge County on Primary Route 19. The project begins at RP-14.1 in Sec. 26, T5N, R12W and extends west to RP- 26.9 in Sec. 6, T5N, R13W. The project length is 12.8 miles.

## 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 Transportation Management Plan (TMP) will consist of a Traffic Control Plan (TCP).

## Physical Characteristics

- a. Original construction of the roadway was 1957  
Improvement of roadway was 1987
- b. The pavement width is 32 feet with 2 lanes except from RP 19.0 to RP 20.2 where the roadway width is 44 feet with 2 lanes and a climbing lane for the west bound traffic and from RP 23.8 to RP 26.9 which has a surface width of 25 feet.
- c. Surfacing information is provided below:

<u>From</u>	<u>To</u>	<u>Top Thickness</u> <u>(in.)</u>	<u>Bottom</u> <u>(Thickness in.)</u>	<u>Top Width (ft)</u>
RP 14.1	RP 23.8	6	12	32

## Preliminary Field Review/Scope of Work Report

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 Project Manager : Dustin Rouse

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d. PvMS Index Numbers & Recommended Treatment for 2015:

Section	Ride	Rut	ACI	MCI	Construction	Maintenance
RP 12 to RP 26.9	75.1	73.6	96.1	97.2	C_AC Crack Seal & Cover	M_AC Crack Seal & Cover

- e. The general terrain of the area is level to rolling in a rural area.
- f. The horizontal and vertical alignments will be perpetuated with this pavement preservation project.
- g. There is one bridge at RP 16.9 (P00019016+0911) which is 42 feet long and 36.4 feet wide constructed in 1930
- h. This project enters Beaverhead – Deer Lodge National Forest at RP 18.6.

### Traffic Data

2013 AADT= 1330 PRESENT  
 2015 AADT= 1350 LETTING YEAR  
 2035 AADT= 1650 DESIGN YEAR  
 DHV= 210  
 T = 5.1%  
 EAL= 28  
 AGR= 1.0%

### Crash Analysis

ENGINEERING STUDY EVALUATION

August 21, 2013

DESCRIPTION: WEST VALLEY – GEORGETOWN

ROUTE & MP: P-19 RP 14.1 TO 26.9

DATE TIME FRAME: 01-01-2008 TO 12-31-2012

<u>STATEWIDE AVERAGE FOR RURAL STATE PRIMARY ROUTES</u>	<u>STUDY AREA</u>
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ALL VEHICLES CRASH RATE:	<u>1.11<sup>1)</sup></u>	<u>1.62</u>
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ALL VEHICLES SEVERITY INDEX:	<u>2.18<sup>2)</sup></u>	<u>2.10</u>
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ALL VEHICLES SEVERITY RATE:	<u>2.41<sup>3)</sup></u>	<u>3.40</u>
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TOTAL RECORDED CRASHES:	<u>52</u>
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<sup>1)</sup> Crash rates are defined as the number of crashes per million vehicle miles.

<sup>2)</sup> Severity index is defined as the ratio of the sum of fatal and incapacitating injury crashes times 8 plus the number of other injury Crashes times 3 plus the number of property damage crashes to the total number of crashes.

<sup>3)</sup> Severity rate is defined as the crash rate multiplied by the severity index.

### I. VARIATIONS FROM AVERAGE OCCURRENCE:

## Preliminary Field Review/Scope of Work Report

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Project Manager : Dustin Rouse

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- 21.2% icy road conditions vs. 10.8% statewide average for Rural State Primary Routes.

### II. CRASH CLUSTERS AND SAFETY PROJECTS:

In June 2008, guardrail was installed from RP 25.5 to 25.8.

### III. REMARK:

The main observed crash trend is single-vehicle off-road crashes (23). Of those that went off the road, 11 resulted in an overturn and 12 struck a fixed object.

The second observed crash trend was wild animal-vehicle collisions (19).

### IV. RECOMMENDATIONS:

The Safety Engineering Section recommends installing rumble strips where shoulders are 4' or wider. *Rumble strips will be installed as appropriate.*

## Major Design Features

- Design Speed.** The design speed for this project is 55 mph based on MDT standards for Primary system roads in rolling terrain. The posted speed for cars and light trucks is 70 mph and 60 mph for heavy trucks except for the portion of the Highway from Denton's Point Rd (RP 23.8) to the end of the project (RP 26.9) which is posted for 60 mph.
- Horizontal and Vertical Alignment.** The horizontal and vertical alignments will be perpetuated with this pavement preservation project.
- Typical Sections and Surfacing.** There are no proposed changes to the typical sections as this is a mill, fill, and seal & cover project.  
The Butte Lab will core drill the existing pavement to determine the thickness as necessary.
- Geotechnical Considerations.** No Geotechnical considerations are anticipated on this project.
- Hydraulics.** No Hydraulic considerations are anticipated on this project.
- Bridges.** There is one bridge on this project at RP 16.9 (P00019016+09111) the edge of the bridge deck requires some repair.
- Traffic.** New Pavement markings will be included on this project.
- Pedestrian/Bicycle/ADA.** No impacts to pedestrian facilities are anticipated.
- Miscellaneous Features.** There are no miscellaneous features on this pavement preservation project.

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- j. **Guardrail.** All guardrail end sections with BCT's will be replaced with optional terminal sections.
- k. **Rumble Strips.** Rumble strips will be installed as appropriate.
- l. **Context Sensitive Design Issues.** There is no context sensitive design issues associated with this project.

### **Other Projects**

There are no current or future projects in the area that will affect this project.

### **Location Hydraulics Study Report**

There will be no hydraulics involvement on this project.

### **Millings**

Anaconda – Deer Lodge County will receive all millings not used in the project.

### **Design Exceptions**

There are no design exceptions on this pavement preservation project.

### **Right-of-Way**

No R/W involvement is required on this pavement preservation project.

### **Access Control**

This roadway is not a controlled access facility.

### **Utilities/Railroads**

No railroads or utilities will be affected by this project.

### **Maintenance Items**

No Maintenance issues were identified for this pavement preservation project.

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

ITS will not be pursued on this project.

### **Survey**

No survey is anticipated for this project. If survey is required the Butte District Road Design Section will obtain the necessary information.

### **Public Involvement**

#### **Level A**

1. News release explaining the project and including a department point of contact.

### **Environmental Considerations**

This project meets the criteria for a statewide programmatic categorical exclusion under the pavement preservation agreement with FHWA. We are submitting a pavement preservation checklist for this project. As proposed, no CWA 404 permit or SPA 124 notifications are anticipated for this project. The Protection of Aquatic Resources special provisions will be included in the bid package for this project.

## Preliminary Field Review/Scope of Work Report

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Project Manager : Dustin Rouse

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### Energy Savings/Eco-Friendly Considerations

No energy saving/eco-friendly considerations are associated with this pavement preservation project.

### Experimental Features

No experimental features will be utilized with this project.

### Traffic Control

Traffic will be maintained on the roadway during construction. Appropriate traffic control devices and signing will be used throughout the project in accordance with the *Manual of Uniform Traffic Control Devices*.

The Transportation Management Plan (TMP) will consist of a Traffic Control Plan (TCP) only.

### Project Management

The Butte District Road Design will develop the plans and Dustin Rouse will be the Project Design Manager. At this time this project is not under full FHWA oversight.

### Preliminary Cost Estimate

	Estimated cost	Inflation (INF) (from PPMS)	TOTAL costs w/INF + IDC (from PPMS)
Road Work	\$1,022,376.00		
Bridge Work	\$ 5,000.00		
Traffic Control	\$ 21,500.00		
<b>Subtotal</b>	<b>\$1,048,876.00</b>		
Mobilization (10%)	\$ 104,888.00		
<b>Subtotal</b>	<b>\$1,153,764.00</b>		
Contingencies (8%)	\$ 92,301.00		
<b>Total CN</b>	<b><u>\$1,246,065.00</u></b>	<b><u>\$160,586.00</u></b>	<b><u>\$ 1,534,937.00</u></b>
<b>CE (10%)</b>	<b><u>\$124,607.00</u></b>	<b><u>\$ 16,058.00</u></b>	<b><u>\$ 153,493.00</u></b>
<b>TOTAL CN+CE</b>	<b><u>\$1,370,672.00</u></b>	<b><u>\$ 176,644.00</u></b>	<b><u>\$ 1,688,430.00</u></b>

The estimated cost \$1,688,430.00(CN+CE+INF+IDC)= \$131,909.00 per mile.

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 9.12% for FY 2014.

### Ready Date

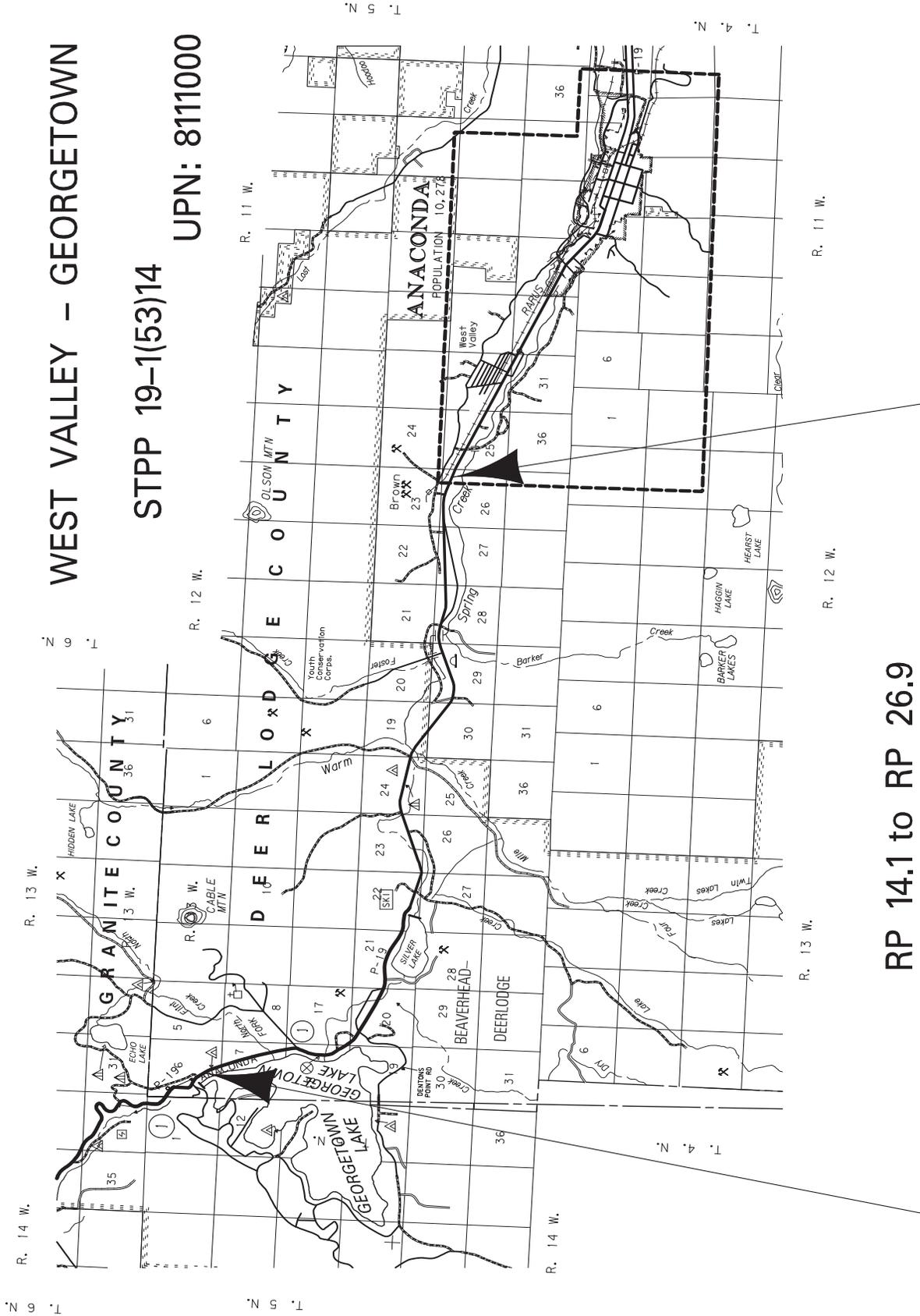
The proposed ready date for this project is October 2014.

### Site Map

The project site map is attached.

Preliminary Field Review/Scope of Work Report

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Project Manager : Dustin Rouse



RP 14.1 to RP 26.9

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

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Project Manager : Dustin Rouse

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