East Sheep FS Road 5184 Culvert Replacement Project

Proposal

08/19/15

Contact: Joe Platz

1. Project Name: East Sheep FS Road 5184 Culvert Replacement Project

The project is located on Sheep Creek, on lands administered by the US Forest Service

2. Applicant:

US Forest Service (USFS), LaGrande Ranger District; Attn: Joe Platz; 3502 HWY 30; LaGrande, OR 97850. Email: jplatz@fs.fed.us. Phone Number: 541-962-8571. Fax Number: 541-962-8580.

3. Participating Landowner(s) and Agencies:

(1) USFS; Attn: Joe Platz; 3502 HWY 30, LaGrande, OR 97850; (541) 962-8571; Fax: (541) 962-8580
(2) Grande Ronde Model Watershed, Lyle Kuchenbecker; 1114 J Ave., La Grande, OR 97850; 541-663-0570; Fax: 541-962-1585
(3) Bonneville Power Administration, Tracy Hauser; P.O. Box 3621; Portland, OR 97208; PH 503-230-4296; FAX 503-230-4564

4. Project Contact(s):

Technical contact(s):
Joe Platz: 3502 HWY 30, LaGrande, OR 97850; jplatz@fs.fed.us; (541) 962-8571
Administrative contact(s):
Bill Gamble: 3502 HWY 30, LaGrande, OR 97850; bgamble@fs.fed.us; (541) 962-8582

5. Project Location:

The East Sheep FS Road 5184 Culvert Replacement Project is located approximately 23 miles southwest of the town of La Grande, Oregon on National Forest System lands adjacent Sheep Creek and the East Fork of Sheep Creek in T6S. R35E, Sections 12, 22, 23, 26, & 36. These streams are located within the Sheep Creek subwatershed, which are within the Upper Grande Ronde watershed.

6. Project Objectives:

- Improve passage for steelhead, chinook and bull trout.
- Improve natural flow pattern.
- Reduce the risk of culvert failure.

7. Project Description

Introduction

Sheep Creek and East Sheep Creek is spawning and rearing habitat for summer steelhead and is designated critical habitat for bull trout. Spring/summer chinook spawning and rearing habitat is located with Sheep Creek. Redband trout also exist within the above stream.

Existing condition

The 5182500 culvert on East Sheep Creek Culvert is currently undersized and does not pass fish at all life stages.

Project Description:

1) **5184100 –** Replace culvert to provide for adequate fish passage, allow for a natural streambed and meet bankfull criteria. Funded through USFS funds.
2) **Junction of 5184 and 5182 –** Install bottomless pipe arch to replace the bridge, remove user built trails and stop motor vehicle use in the stream. Funded through USFS funds.
3) **5182510 –** Replace culvert to provide for adequate fish passage, allow for a natural streambed and meet bankfull criteria. Funded through CTUIR funds.
4) ***5182500** – Replace culvert to provide for adequate fish passage, allow for a natural streambed and meet bankfull criteria. Proposed to be funded through **BPA funds.***
5) **5184350 –** While not needed for fish passage, this culvert is deteriorating and would be replaced to provide for additional flow passage and longevity. Funded through USFS funds.
6) **5160 –** Replace and realign culvert with a larger culvert to adequately handle high flows, prevent flooding and maintain aquatic organism passage. A temporary road will be installed to route traffic around the 5160 road during culvert replacement implementation. Funded through USFS funds.

Highlighted Construction requirements:

- a. Finished road grade shall match the existing road grade.
- b. All tree, shrub, brush removal shall be coordinated with a Forest Service fish biologist or hydrologist prior to removal.
- c. When reconstructing the stream channel, consult with District resource specialists as necessary to achieve final grades and layouts as agreed to by the contracting officer.
- d. Contractor shall use the existing roadway for a staging area.
- e. All material within the existing bankfull width and the ordinary high water mark shall be streambed simulation material, other than the surface course aggregate under the footings.
- f. A USFS fish biologist or hydrologist will be on site when the stream channel and streambed are constructed. The biologist or hydrologist will ensure that the substrate is sufficient to pass fish and that the material is installed properly to streambed grade level.
- g. All instream work will be completed during the instream work window (July 1 – July 31) of one year.
- h. The dewatering plan shall minimize sediment from entering the stream, maintain stream flows downstream of the work area, and shall be designed to minimize impact on construction of the new culvert.
- i. Fish will be salvaged prior to project implementation with appropriate block nets installed. An electroshocker will be used to salvage the fish. The fish will be placed downstream of project operations. All fish salvage operations will be supervised by a Forest Service fish biologist.
- j. Rehabilitate the site with native seed, mulch and native conifer/deciduous seedlings.

Benefits

Benefits include: This project would replace 5 culverts and replace an old bridge site with a fish passable culvert. All of the work will be completed within the immediate vicinity of the culverts. As a result of this project, there will be 3 miles of chinook spawning and rearing habitat and 9 miles of steelhead spawning and rearing habitat with improved fish passage.

Project Maintenance

Maintenance of the culverts would be completed by the USFS (Mark Gomez). Maintenance would involve assessing the culvert stability, erosion concerns, associated damage and debris clogs on an every other year basis. Maintenance will occur, as needed, to address any of the concerns identified in the bi-yearly assessment. Maintenance may include: cleaning debris, stabilizing slopes and streambank on the upstream and downstream ends of the culvert, stabilizing the road prism, and culvert repair.

Permits

NEPA, ESA consultation with NMFS and USFWS, and permits from the US Army Corps of Engineers/Department of State Lands will be obtained for this project. All instream work will be performed in the instream work window, which is July 1 – July 31.

Monitoring Plan -

- Photo points: Monitoring will involve photo points of before and after operations occur. Follow up photo points will occur at year 1 and year 3 after project completion**.** This monitoring will occur by Joe Platz.

- Culvert Assessment: An assessment of culvert stability, erosion concerns, associated damage and debris clogs will occur on an every other year basis. This monitoring will be conducted by Mark Gomez.

- Reports: A final report that describes the actual implementation will be completed in January of 2017. Subsequent monitoring and assessment reports will all be completed in January of the year they reside in. Reports will be completed by Joe Platz.

Work Dates – The design will be completed in 2015. The work will begin in June of 2016 and end in November of 2016. All instream work will be completed within the instream work window, which is July 1 – July 31.

8. Project Budget

The project budget is attached.

9. Attachments

Attachments include: (1) Project Budget, (2) Vicinity Map, (3) Project Description Map, and (4) Photos (attached).

2016 Forest Service Budget
EAST SHEEP FS ROAD 5184 CULVERT REPLACEMENT PROJECT
May 1, 2016 - February 28, 2017

	Qnty	Unit		Unit Cost		2016 BPA Requested Funds	CTUIR Funds	USFS Costs	Comments
A. PERSONNEL						**$4,424**		**$107,810**	
Regular Staff:									
NEPA staff	50.0	8 hr day	@	$291	/day			$14,550	N,P,M,MA
Biological Technician (project lead)	20.0	8 hr day	@	$336	/day			$6,720	I,P,M,MA,I,C
Engineer(s)	300.0	8hr day	@	$354	/day	$4,424	$15,236	$86,540	I,C,D
B. VEHICLES								**$2,700**	
GSA lease	4	mo	@	$275	/mo			$1,100	I,C,M,MA
GSA mileage	4000	mi.	@	$0.40	/mi			$1,600	I,C,M,MA
C. SERVICES AND SUPPLIES						**$0**		**$500**	
Native Seed	20	lbs	@	10.00	/lb			$200	MT
Mulch	50	bales	@	6.00	/bale			$300	MT
Seedlings	200	seed.	@	1.25	/seed			$250	
D. SUBTOTAL						**$4,424**		**$111,010**	
E. INDIRECT COST	**8.0%**					**$354**			
F. SUBCONTRACTS						**$85,000**	**$80,898**	**$313,000**	
G. TOTAL CONTRACT COST						**$89,778**	**$80,898**	**$424,010**	

Comments

N = NEPA
I = Implementation
C = Contract administration
P = Permits
CO = Coordination of BPA projects

M = Monitoring
MA = Maintenance
MT = Materials for implementation
D = Design

Subcontractor Budget

EAST SHEEP FS ROAD 5184 CULVERT REPLACEMENT PROJECT
May 1, 2016 - February 28, 2017

		Qnty	Unit		Unit Cost	BPA Requested Funds	CTUIR Funds	USFS Costs	Comments
A.	**Equipment with operator(s)**					**$85,000**		**$313,000**	
	Culvert Replacement Contract	1	cont.	@	$478,988	$85,000	$80,898	$313,000	I
B.	**TOTAL PROJECT COST**					**$85,000**	**$80,898**	**$313,000**	

Comments

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MA = Maintenance

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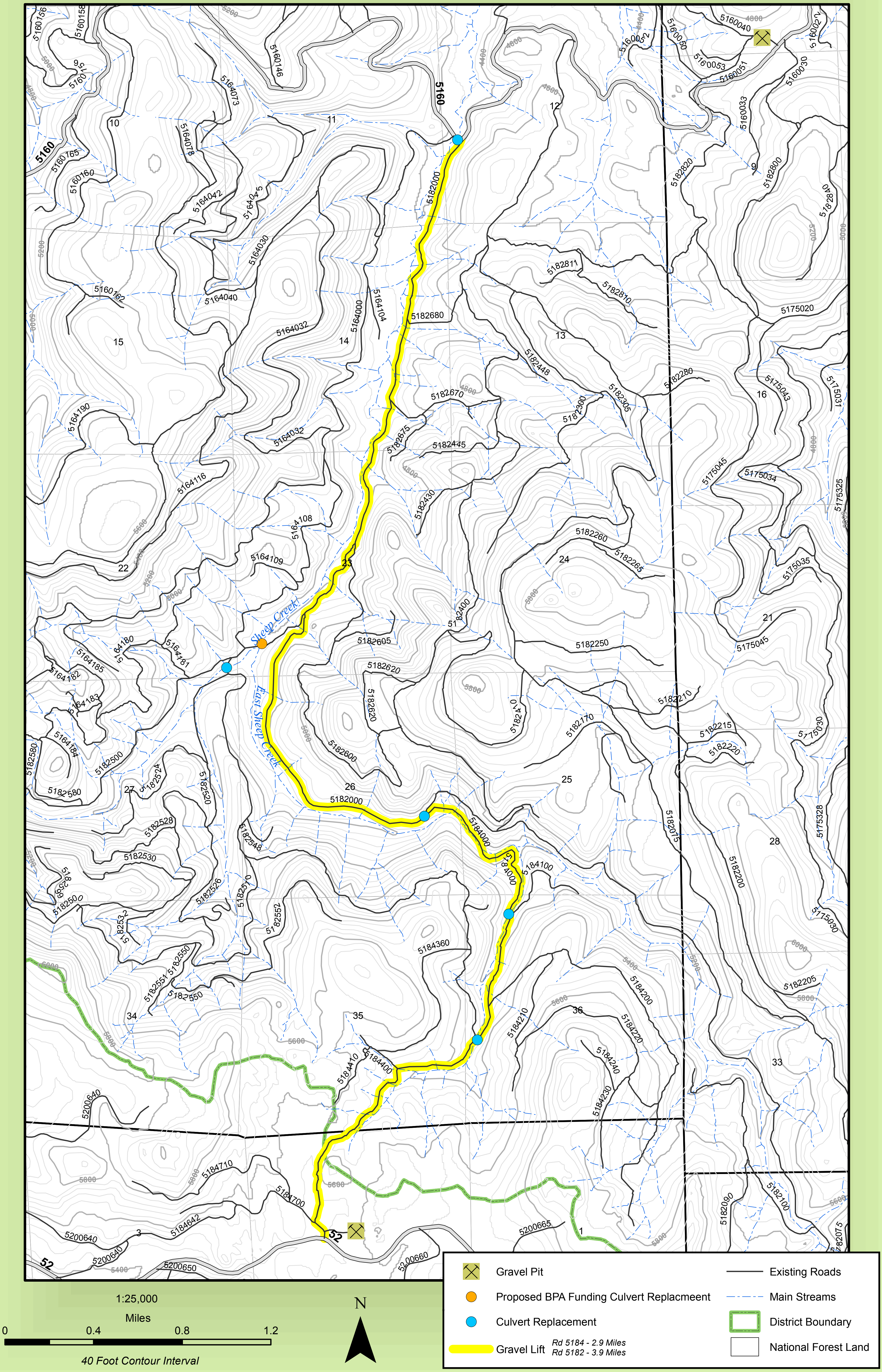
East Sheep FS Road 5184 Project



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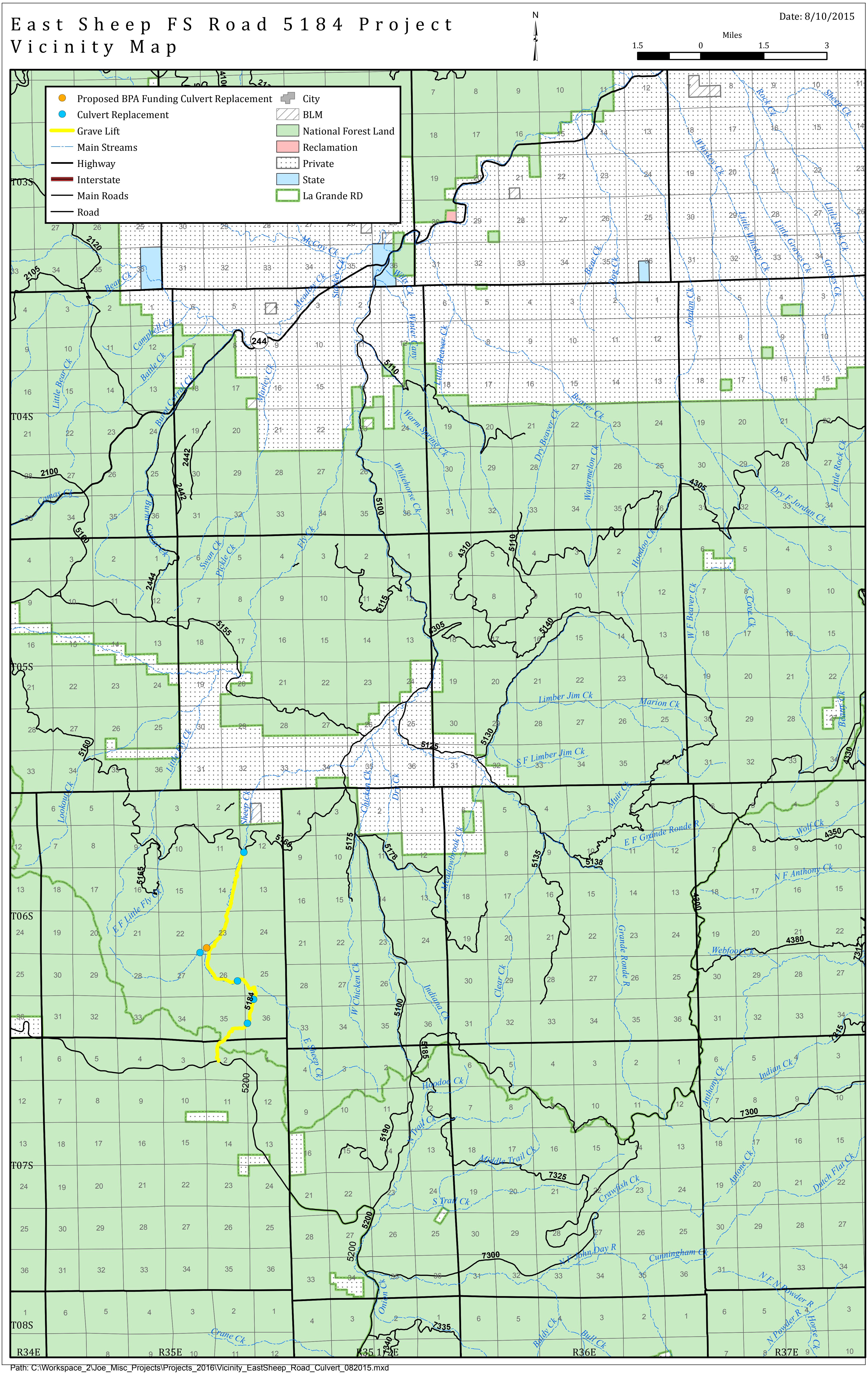
East Sheep FS Road 5184 Project Vicinity Map

Date: 8/10/2015



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