To Red Lodge 2009/2010 HPP 4-1(5) Project WILDERNESS Project Project MONT NA Gardner Lake Trailhead IG End Segment 4 Sta. 69+100 Project Project Project Project Sta. 61+340 2010/2011 B2 Ε n Montana State Line 2009/ 2010 Bridge Replacement HPP 4-1(6) Project Sta. 60+750 BEARTOOTH Project .3232 Beartooth Beartooth Lake Island Lake Albright Curve Approach Road **Ravine Wall Outlet Bridge** Sta. 41+700 Sta. 42+260 Sta. 47+843 Snyo Little Bear Lake Fen MOUNTAINS Bar Drift Sta. 49+200 Parking Area Frozen Lake To Cooke City 312 Little Bear Creek Sta. 42+060 Bridge #2 **Road Closure Gate** Sta. 46+500 Sta. 52+423 Begin Segment 4 Sta. 39+450 Beartooth Little Bear Creek Top of the Long Lake Bridge Sta. 50+300 Ravine Bridge Bridge #1 World Store Clay Butte Sta. 41+400 Sta. 45+300 Sta. 45+800 Project A - Sta. 49+980 to Sta. 50+770 Segment 4 Begin and End Segment 4 **ATKINS** Project B - Sta. 39+450 to Sta. 41+100 2009/2010 Bridge Replacement - Sta. 44+700 to Sta. 45+800 (Clay Butte to Montana State Project C - Sta. 45+800 to Sta. 47+843 NORTH 4601 DTC Blvd. Line) 2009/2010 HPP 4-1(5) Project Sta. 50+770 to Sta. 69+100 4601 D1C Blvd. Suite 700 Denver,CO 80237 303-221-7275 Fax: 303-227-7276 Scale:1:100,000 Project D - Sta. 47+843 to Sta. 50+770 2010/2011 HPP 4-1(6) Project Sta. 42+060 to Sta. 44+700 Project E - Sta. 41+100 to Sta. 42+060 1/2 mile Ó 1 mile Project F - Sta. 39+450 to Sta. 42+060 and **Remaining Projects** ½ km 0 1kilometer Sta. 45+800 to Sta. 50+770 October 2011

Potential Construction Projects

Project		Description	2012 Cost ^{1,} (Total)	Anticipated Construction Duration (Working Months)	Comments
A	Alternate Minimum	Long Lake Outlet Bridge (Station 49+980 to Station 50+770)	\$5,000,000	12 months	Replaces Long Lake Outlet Bridge and constructs retaining wall to avoid impacts to Long Lake. (Included in Project D) Requires long term (5 yr) wetland monitoring and reporting.
в	Minimum	Begin Segment 4 at Clay Butte to Beartooth Ravine (Station 39+450 to Station 41+100)	\$5,200,000	6 months	Permanent fix of slide area at Clay Butte and construction of wildlife crossings as part of the mitigation. Continuity of route from Segment 3. Requires long term (5 yr) wetland monitoring and reporting.
с	Low	Top of the World Store to Island Lake Campground approach road (Station 45+800 to Station 47+843.397)	\$8,900,000	12 months	Replaces bridge with SR <50. Addresses 95% of wetland mitigation on Segment 4. Provides continuity with 2009/2010 HPP 4- 1(5) Reconstruction Project. Includes historical mitigation interpretive site (geological). Requires long term (5 yr) wetland monitoring and reporting.
D	Medium	Island Lake Campground approach road to HPP 4-1(5) Rehabilitation Project (Station 47+843.397 to Station 50+770)	\$12,200,000	12 months	Replaces Long Lake Outlet Bridge. Constructs the Little Bear Lake Fen Bridge and mitigation. Connects to the western limits of the completed 2009/2010 rehabilitation HPP 4-1(5) Project. Requires long term (5 yr) wetland monitoring and reporting.
E	High	Beartooth Ravine (Station 41+100 to Station 42+060)	\$19,800,000	18 working months	Addresses Beartooth Ravine hazards and provides aesthetic enhancements at Ravine area. Connects to the western limits of the 2011 HPP 4-1(6) Project.
F	Maximum	Begin Segment 4 at Clay Butte to western limits of HPP 4-1(6) project and Top of the World Store to HPP 4-1(5) Rehabilitation Project (Station 39+450 to Station 42+060 and Station 45+800 to Station 50+770)	\$46,100,000	18 months	Complete remaining reconstruction work on Segment 4.

Potential Construction Packages

1. Costs include engineering, environmental, construction engineering, and construction costs for a total costs for the projects.