SPRUCE UP TIMBER SALE IDC02-TS-2021.0002 ROAD SUMMARY WORKSHEET - Exhibit E

ROAD NAME	Cutting Unit <u>Access</u>	New Const. <u>12'-14' Temp.</u>	Typical <u>Reconstruct</u>	Jammer/Swing <u>Trail Prep</u>	Light <u>Reconstruct</u>	Maintain Gravel Spruce Main	Gravel - Apply & Rockwear #loads.	Install <u>Gate</u>	Purchase & Install <u>Culvert(s)</u>	3" minus rock Surfacing #loads	Completed Sale Road Restoration <u>Activity</u>	Total haul segment <u>miles</u>
Spruce Main	All-main haul				4.05	1.56	15	1 gate	(2) 18 X 40	Total 14 Loads: Location TBD after opening.	Maintenance	<u>5.57</u>
Unit 2 Temp	2T		0.56						(1) 18" x 40' ditchline approach Deadwood road		DC/RIP 56mi = \$1,680	<u>0.56</u>
North Spur	8T, 9C				1.07					Apply 6 loads on steep sections	EC - 1.07mi = \$1,066	<u>1.07</u>
Mining Spur	5T	0.11			1.05						EC - 1.16mi = \$1,160	<u>1.16</u>
Prepare Jammer/Swing Trails	2T, and locations as needed			0.4							DC/RIP 4 mi = \$1,200	<u>0.4</u>
Unit 8 Temp	8T		0.2								EC 2mi = \$200	<u>0.2</u>
Unit 13 Temp	13C	0.18									EC - .175mi = \$175	<u>0.18</u>
Totals		0.29	0.76	0.4	6.17	1.56	15		120	20	3.6	9.13
Units		Mile	Mile	Mile	Mile	Mile	Load		Ft	Load	Mi	Total
Cost/mile-drainage		\$20,875	\$8,500	\$1,800	\$3,500	\$1,800	\$650	\$480.00	\$35	\$560	Variable	
Itemized Total:		\$6,201	\$6,460	\$720	\$21,581	\$2,806	\$9,750	\$480	\$4,200	\$11,200	\$5,481	\$68,879
Grass seed & fert.		Grass	Seed: 250 lbs.	@ \$5/lb. = \$1,250) Fertilizer:	900lbs. @ \$0.60 lb	/acre = \$540 (Labor) 16hr @	\$25/hr. = \$400	Total: \$2,190		<u>\$2,190</u>
										TOTAL ROAD COST AL	LOWANCE	\$71,069

Pre & Post-haul grading with patrol. May include; brushing, grading/shaping/sloping running surface, pulling/cleaning ditches, cleaning culverts & catch basins, and preparation/processing gravel application.

Install Gate: Provided and delivered by BLM. Estimated 4 hour install time at \$120/hr. for excavator work = \$480 total. Location designated on sale map.

New construction on 'Mining Spur' is an estimated 500 to 600ft from private road. Decommissioning, grass seed, fertilizer & application costs are included in temporary construction template.

Purchase & apply gravel to lower 1.56mi of the Spruce Main Haul road. Locations of loads TBD by authorized officer.

The 3/4"- Road mix available @ Kashmitters pit in Grangeville for \$7.50/ton = \$165/load; Haul costs/load (Belly dump) = 4.25 hr. round trip @ \$115/hr. = \$488/load (assuming 16 cu. yd./22 ton belly dump) - Total ≈\$650/load

Apply 3" minus rock to critical areas designated on the sale map, 3" minus material is available at Kashmitters Pit in Grangeville for \$6.80/ton * 16 ≈ \$110. Haul costs/load (end dump) 4.25hr. round trip @ \$105/hr. = \$450, Total= \$560

Typical reconstruction to include; brushing, re-shaping some back slopes, minor slump/slide repair, minor surface & curve widening, slope/drainage correction, ditch & culvert catch basin cleaning. Unit 8 Temp; ROW is cleared, grubbing and establishment of running surface further required.

Light reconstruction/Improvement to include; brushing, minor widening, small tree removal, surface blading/sloping, improving/installing rolling dips, ditch & culvert catch basin cleaning.

Using excavator/dozer, open existing jammer/skid trails to swing (jammer) yarded material to haul roads. To include; brushing, slope correction/widening, and re-shaping approaches to haul road junctions.

Sale Purchaser to purchase and apply; 250 lbs. of grass seed (14 lbs./ac.), 900 lbs. of plant food 16-16-16 (50 lbs./ac.). Estimate 18 critical road & skid trail acres.

End of Sale - Road Restoration Activity Definitions:

EC = Erosion control - Prepare road surface for seeding/stabilization; shape surface/provide drainage, clean culverts, install drivable X-ditch @ \$1,000/mile.

DC/RIP = Decommission - Decompact Road Surface portions, Jammer/Swing trails, rip to an approximate 10" depth, place woody debris, stabilize & seed @ \$3,000/mile