

TOO SMOKEY TIMBER SALE
IDC02-TS-2020.0001
ROAD SUMMARY WORKSHEET - Exhibit E

ROAD NAME	Cutting Unit Access	New Const. 12'-14' Temp.	Typical Reconstruct	Light Reconstruct	Open & maintain Main Haul	Hammer Drill Rock Outcrop	Slide/Slump reshape & repair	Gravel - Apply & Rockwear #loads.	Apply Dust Oil to gravel surface	Purchase & Install Culvert(s)	3" minus rock Surfacing #loads	Completed Sale Road Restoration Activity	Total haul segment miles
Smokey main	All-main haul				4.48	Break cutslope rock - 6 hrs.	0.04	Private driveway- 17 Sale end rockwear- 4	0.35		Apply 2 loads @ designated rolling dip(s) - 20 dips = 40	Maintenance	4.48
Middle Smokey	1T,1JE,1TN,6C	0.66	0.55	0.75						(1) 18" X 28'	Apply 2 loads over CMP/spring area	Decommission - EC - \$1,300	1.96
Middle spur	3C	Widen ridge curve-truck turn around	0.3									DC/RIP - .11 = \$330 EC - .19 = \$190	0.3
Middle Temp	2T, 2C	0.19								(1) 18" X 28'		Decommission	0.19
East Smokey	2C, 2TJ, 3TE, 4C, 5C, 3TW		1.95				0.03			(2) 18" X 32' - upgrade 15" south of 2C & spring 5C	Apply 10 loads - 2 @ Spring Un. 3TE, 2 over CMP between Un. 4C & 5C, 6 @ Slump area	DC/RIP - .08 = \$240 EC - 1.87 = \$1,870	1.95
Alder Loop	2C, 3TE, 3C, 3TW, 6C	0.47	0.99							(2) 18" X 46' Upgrade 15" south of 3C to (1) 18" X 32'	Apply 4 loads - 2 over each 46' CMP	Decommission - DC/RIP - .30 = \$900 EC - .69 = \$690	1.46
Elk saddle	7TJ, 7C		0.64									EC - \$640	0.64
Elk Swing	7C - Yarder access, No haul	0.11										Decommission	0.11
Meadow View	9C, 9TW		0.95							(1) 18" X 28'	Apply 4 loads-2 over CMP & 2 between seep areas 9CH	EC - \$950	0.95
Meadow View Temp	9TE, 9CH	0.63										Decommission	0.63
Open Jammer/Swing Trails	7TJ, & locations as needed			0.4								DC/RIP - \$1,200	
Totals - miles/loads		2.06	5.38	1.15	4.48	6	0.07	21	0.35	272	60	6.5	12.67
Cost/mile-drainage		\$20,875	\$7,000	\$3,500	\$1,800	\$325	\$5,615	\$270	\$5,000.00	\$34	\$300	Variable	
Itemized Total:		\$43,255	\$37,660	\$4,025	\$8,062	\$1,950	\$5,615	\$5,670	\$3,500	\$9,248	\$18,000	\$8,310	\$145,295
Grass seed & fert.	450 lbs. @ \$5.50/lb.		1,500 lbs. @ \$0.50/lb.						15 Bales @ \$10.00 ea.		Labor - 50 hrs. @ \$25/hr.		\$4,625
TOTAL ROAD COST ALLOWANCE													\$149,920

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

Approx. 2.2 miles up Smokey main at granite ridgepoint, use hydraulic breaker (hammer drill) to break & remove protruding cut slope rock to increase road width approx. 3'. Rental & Excavator 6 hrs. @ \$325/hr. combined = \$1,950

Prior to any log haul, process (water & grade) gravel surface and apply approved dust abatement product (Mag Chloride/Equivalent) to the beginning of Smokey main for .35 miles, 2 applications @ \$5,000 mi.

Slide area (Gabion location) - Approx .95 mile up Smokey main, clean slough material (rocks, dirt/debris) to recover road width & reshape backslope. Load & end-haul excess material up Smokey main approx .20 miles to narrow draw (before 1st switchback), extend culvert 10' on lower side & deposit fill. Excavator & Dump truck 8 hrs. combined @ \$225/hr = \$1,800; 10' of 18" CMP @ \$34/ft. installed = \$340 - Total = \$2,140

Slump area, 2/3 of road surface width gone - Approx 1 mile up East Smokey; relocate road CL upslope approx. 15', place/key-in large boulders (gather on/near site) in slump area just below original shoulder to key in new fill from relocation above. While pioneering, construct inside ditch to catch upcoming spring in minor draw connecting to current inside ditch, draining down to culvert located before slump. Apply 6 loads of 3" minus base when completed, using straw bales to stabilize. Excavator & Dozer 12 hrs. combined @ \$250/hr. = \$3,000, Dump truck to haul boulders 5 hrs. @ \$95/hr. = \$475 - Total = \$3,475. The 6 loads base rock covered in Surfacing #loads section.

Purchase & apply gravel to extend private drive surfacing below homesite; 900' X 12' wide X 6" deep (4" compacted, rolled & shaped with grader) = 17 loads. End of sale, apply 4 additional loads where needed on thin areas. The 3/4" Road mix available @ JI Morgan pit in New Meadows for \$9.50/ton = \$152; Haul costs/load = 1.25 hr. round trip @ \$95/hr. = \$120/load (assuming 12 cu. yd./16 ton end dump) - Total = \$270/load

Improve/deepen existing rolling dips & apply 2 loads of 3" minus Base material to designated dip(s), and at other locations as shown in Surfacing #loads section. The 3" material available @ JI Morgan pit in New Meadows for \$9/ton = \$144; Average haul costs/load = 1.25 hr. round trip @ \$95/hr. = \$120/load (assuming 12 cu. yd./16 ton end dump), spreading/smoothing with dozer/patrol @ \$35/dip/location - Total = \$300/load

Decommissioning, grass seed, fertilizer & application costs are included in temporary construction template. Widen curve on ridgepoint for Middle Temp haul turn around, 3 hrs. D-8 @ \$125 = \$375 add to New Temp Construction.

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.

Light reconstruction/Improvement to include; brushing, 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.

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

Sale Purchaser to purchase and apply; 450 lbs. of grass seed (14 lbs./ac.), 1,500 lbs. of plant food 16-16-16 (50 lbs./ac.), and 15 straw bales for mulching critical areas. Estimate 30 critical road & skid trail acres.