

Erosion Control - Rain

4940 CCF

		# Landing	Acres	
Ground based acres	9.7	8	2	ground lanc
Skyline acres	88.2	70	17.5	
Helicopter acres	0	0	0	

Skid Roads; ground based expect up to 15% of the acreage to be disturbed . Approximately 10
seed and fert 9.7 0.15 0.1 0.1

	Length	Width	Sq FT/ Ac		
Temp Road	4010	14	43560	0.1	0.1
					Total ac 19.8

Seed and fertilize: one person can seed and fert 2.2 ac/day;

Acres	Ac/Day	Days	\$/Day	
	2.2	9	150	\$1,350.00 labor

materials and equipment; 20.0 ac x \$175/ ac =

Ac	\$/Ac	
19.8	175	\$3,465.00 materials a

scarify skid roads: district experience on recent sales
shows scarification cost to be \$100/ac
over entire sale acreage

Ac	\$/Ac	
9.7	100	\$970.00 scarification

Total \$5,785.00

21%
overhead 1.21 \$5,785.00 \$6,999.85

Subtotal Cost/ CCF \$1.42
native seed deposit \$0.04

Total Cost/CCF = \$1.46

things are also shared with cable and counted as cable
19.5 ac

0% of this acreage will require
ac **use 10% of length**

ac **use 10% of length**
seed and fert ac

nd equipment seed and fert

Rain T.S.

SUBGRADE, SURFACING, AND ROCK

For appraisal purposes only, not part of the contract, not to be used as final design.

Road Name	From Station (Approx.)	To Station (Approx.)	Subdivision	Cut Slope Ratio	Fill Slope Ratio	Finished Surface Width Excluding Curve Widening and Turnouts Feet (Approx.)	Uncompacted Depth of New Rock Inches (Approx.) PIT RUN	Designated Rock Source PIT RUN	Remarks
T1	0+00	4+13	85	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T1	4+13	7+66	85	Utilize Existing Prism		12	Spot Rock 6"	Calawah Pit	1,3
T2	0+00	10+42	84,62	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T3	0+00	5+84	62	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T4	0+00	4+69	62B	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T5	0+00	6+27	126B	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T6	1+97	4+28	126A	Utilize Existing Prism		12	6"	Calawah Pit	1,3
T7	0+00	0+94	85	1:1	1½:1	12	6"	Calawah Pit	1,3

DRAINAGE AND CULVERTS

Road Name	Station (Approx.)	Feature	Purpose	Minimum Culvert Diameter (Inches)	Q-100 Culvert Diameter (Inches)	Rock Source (Fill) PIT RUN	Remarks
T1	0+00	Culvert	Ditch Relief	18	na	Calawah Pit	
T2	0+00	Culvert	Ditch Relief	18	na	Calawah Pit	
T5	0+00	Culvert	Ditch Relief	18	na	Calawah Pit	

1. Inslope and outslope as needed to maintain proper drainage.
2. Miscellaneous rock, estimate 300 cubic yards.
3. Existing culverts may be utilized in place.

USDA - FOREST SERVICE
Stewardship: N

REPORT OF TIMBER SALE
APPRAISAL SUMMARY CCF

R6-FS-2400-17 (04/10)
Version 1611 (TEA 03-16)

Region: 06
Forest: 09 Olympic
District: 05 Soleduck
Salvage: N

Sale Name: Rain
Sale Number: 95530
Appraise to: Port Angeles
Appraiser: McNealy

Appraisal Date: 04/20/16
Base Period Ending: 12/31/15
Competition Factor: 20%
Essential KV Cost: 0

SELLING PRICES	1	2	3	4	5	6	7	Average	Total
1. Species	D-fir	W Hem							
2. Species Code	205	263							
3. Product/Unit	01-03	01-03							
4. Volume	3,232	1,708							4,940
5. Base Period Price	59.80	44.39						54.47	
6. Base Period Index	181.26	157.21						172.94	
7. Current Index	181.04	154.96						172.02	
8. Rapid Market Adj	13.00	10.40						12.10	
9. Market Adj BP Price	72.58	52.54						65.65	
10. Unusual Adjustment									
11. GBCv-Nonsaw Adj									
12. Product Quality Adj	15.00	15.00						15.00	
13. Adj Base Period Price	87.58	67.54						80.65	398,416.88

COSTS	Zone Avg Cost/UM	Est Sale Cost/UM	Adj to BP Cost	ROADS	Km	Miles	Cost
14. Stump to Truck	122.91	113.22	9.69	Specified Road Con			
15. Haul/Scale	34.55	54.83	-20.28	Specified Road Rec	8.05	5.00	110,913
16. Road Maintenance	14.97	20.28	-5.31	Temporary Road Con	1.22	.76	58,060
17. Contract	6.12	5.76	.36	Haul Miles		67	
18. Development & Other	5.71	15.45	-9.74				
19. Road Const & Recon		22.45	-22.45				
20. Total (lines 14-19)	184.26	231.99	-47.73	DEPOSITS:	Br Disp/UM 3.11	Rd Mtc/UM 8.58	C(T)5.213# 11,842.36

ADVERTISED RATES	1	2	3	4	5	6	7	Average	Total
21. Predicted Bid Rate	39.85	19.81						32.92	162,630.68
22. Competition Adjustment	7.97	3.96						6.58	32,522.72
23. Property Value									
24. Indicated Adv Rate	31.88	15.85						26.34	130,107.96
25. Base Rate	3.00	3.00						3.00	14,820.00
26. Adjustment									
27. Advertised Rate	31.88	15.85						26.34	130,107.96

CCF to MBF Rate Factors: 1.8208 1.8267 1.8229
 CCF to MBF Volume Factors: .5492 .5474 .5486
 MBF to CCF Index Factors: .52 .52
 CCF Base Index for A(T)5a:
 CCF Wtd Avg Del Log Price: 319.22 233.75
 MBF Volume: 1,775 935 2,710
 Total Tons Removed: 9,509 5,451 14,960
 Net CCF to Tons Conversion Factor for C8.3#(Option 1) or K-I.3.1#: 3.0283 DEPOSITS/Ton BD: 1.03 RM: 2.83

Rain

Road Name	50k/mile	35k/mile	30k/mile	25k/mile	total ft	Subdivision	Travel Way	Rock Depth
	new const	Heavy	Moderate	Light				
T1		413			413		12	6
T1				353	353		12	6
T2		1042			1042		12	6
T3			584		584		12	6
T4		469			469		12	6
T5			627		627		12	6
T6		428			428		12	6
T7			94		94		12	6
	0	2352	1305	353	4010			Totals =
Miles	0.00	0.45	0.25	0.07	0.76			spot rock

Rock is from Calawah pit and is \$27 a cubic yard delivered to the sale area.

New construction - as shown in above table. Use cost of \$50,000/mi from past district experience

Reconstruction of existing grade includes some removal of timber , debris removal, drainage rest, blading and shaping. Rock as shown in above table. Use cost of 70 % of new const for heavy, 60' and 50% for light reconstruction

Clearing limits will not exceed 16 feet unless otherwise designated.

Estimated CY
Temp. roads:
All
other
Total

New construction temp 0.00 miles

0 miles X \$50,000 \$0

Culverts
no culverts n
Placement of
Sensitive Cor

Reconstruction of temp	Heavy	Moderate	Light
miles	0.45	0.25	0.07
\$/mile	\$35,000	\$30,000	\$25,000
\$	\$15,750	\$7,500	\$1,750

\$25,000.00

\$/load =

Rock Haul

	yards	loads	\$/load	Cost
Pit Run	0	123	\$220.00	\$27,060.00
Crushed	0	0	\$0.00	\$0.00

Total **\$27,060.00**

Close Temp Roads - includes culvert removal, barrier placement, scarification for rehab, ~14inche is included in the erosion control appraisal:

Approximately 1000 feet per day estimated.

Allow 4 days to use shovel to close roads at \$1500/day includes pr and r **\$6,000**

Sale Volum 4940 CCF

CY Rock Culverts

99	
42	
251	
141	
113	
151	
103	
23	safety spur
923	0

ration, culvert placement,
% moderate

of Rock Needed

Pit Run	Crushed	
923	0	
300		Landings & short access spurs
1223		

	<u>18"</u>	<u>24"</u>	<u>36"</u>
\$500/culvert	\$0.00		

may be needed as relief culverts
f the culverts will be determined as described in
struction of temp roads (C5.1, Option 1)

16 miles RndTrip, 16 @ 15 mph = 64 minutes RndTrip
round to 75 minutes = 1.25 hours
1 load every 1.25 hours
dump + excavator = \$176/hr
\$176 * 1.25 = \$220.00
round to \$220/load

it is anticipated that rock will need to be sorted in the pit
so the use of the excavator has been changed from
half time to full time, and rock can be sorted between trips

total =	\$58,060.00
cost per CC	<u>\$11.75</u>

is. Seeding and fert

FROM GU March 2016

	Equipme nt \$/hr	Operator PW \$/hr	Operator Woods Rate \$/hr
Excavato r	\$52.36	\$59.03	\$41.85
Dump Truck (10 CY)	\$41.70	\$55.63	\$39.44

