



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Hollywood Hills
Sale TL-341-2022-W00910-01

District: Tillamook

Date: May 09, 2022

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,392,051.78	\$173,911.53	\$1,565,963.31
		Project Work:	(\$210,190.00)
		Advertised Value:	\$1,355,773.31



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Sale TL-341-2022-W00910-01

District: Tillamook

Date: May 09, 2022

Timber Description

Location:

Stand Stocking: 100%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	16	0	95
Alder (Red)	16	0	97

Volume by Grade	2S	3S & 4S 6"-11"	8" - 9"	10" - 11"	12"+	6" - 7"	Total
Douglas - Fir	1,551	1,670	0	0	0	0	3,221
Western Hemlock / Fir	0	0	0	0	0	0	0
Alder (Red)	0	0	161	235	228	243	867
Total	1,551	1,670	161	235	228	243	4,088

Comments:

Additional Costs – Hollywood Hills

Pond Values Used: April 2022

Region: Astoria, Forest Grove, and Tillamook

Western red cedar and other cedars stumpage price = \$1,294/MBF - \$333.34/MBF = \$960.66/MBF

Western Hemlock and other conifer stumpage price = \$692/MBF - 333.34/MBF = 358.66/MBF

Pulp (Conifer and Hardwood) Price = \$2.50/Ton

FUEL COST ALLOWANCE = \$5.00/Gallon

HAULING COST ALLOWANCE (\$120.00/hr x 10 hr.= \$ 1,200.00) = \$1,200/Day

Other costs with profit and risk added:

BRAND AND PAINT ALLOWANCE = \$2.00/ MBF

4,088 MBF x \$2.00/MBF = \$8,176.00

Heliport Construction: \$500/unit x 1 unit = \$500.00

Move-in Machine Cleaning: \$1,000/machine x 2 machines x 2 seasons = \$4,000.00

Guyline Cat Move-in: = \$1,000.00

Non-Project and Unsurfaced Road Blocking:

Points E to F, G to H, I to J, K to L, M to N, O to P, and Q to R:

7 Closures @ \$50/Closure = \$350.00

TOTAL Other Costs with profit and risk to be added = \$14,026.00

Other Costs without Profit and Risk Added:

Slash piling and sorting (Cable Settings): \$5/ac x 134 ac. = \$670.00

Stimson Road Use Agreement Pre-Haul Fee (See Agreement) = \$1372.74

Ditch Cleaning and Bank Sluff Removal:

Mobilization: two times – dump truck w/ tilt bed & small excavator: \$900 x 2 = \$1,800.00

Small excavator (Cat 312 or equivalent): 40 hours @ \$135/ hour = \$5,400.00

Dump truck: 40 hours @ \$90/ hour = \$3,600

TOTAL Other Costs without Profit and Risk added = \$12,842.74

ROAD MAINTENANCE:

STIMSON Road Maintenance/Rock Wear Fee

Maint.: \$2.12/MBF/mile x 852MBF x .76 mile = \$1372.74/852 MBF (See Agreement) = see above

Rock fee: \$.47cy/mile x .76 mile x .852MMBF (See Agreement) = \$0.30/MBF

ODF Road Maintenance

Spot Rocking: 20cy/MMBF/mile x 4.088MMBF x \$15/cy x 12.15 miles /4,088 MBF = \$3.64/MBF

Interim Grading: \$1,150/mile x 7 miles x 1 times/ 4,088 MBF = \$1.97/MBF

Final Maintenance Grading: \$1,500/mile x 12.15 miles/ 4,088 MBF = \$4.45/MBF

Final Maintenance Compaction: \$900/mile x 4.5 miles/4088 MBF = \$0.99/MBF

Total Road Maintenance: = \$11.35/MB



"STEWARDSHIP IN FORESTRY"

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Logging Conditions

Combination#: 1 Douglas - Fir 16.67%
 Alder (Red) 17.51%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimiting

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 7 **bd. ft / load:** 3800

cost / mbf: \$294.81

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Medium)

Combination#: 2 Douglas - Fir 63.12%
 Alder (Red) 62.72%

Logging System: Cable: Medium Tower >40 - <70 **Process:** Harvester Head Delimiting

yarding distance: Long (1,500 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 5 **bd. ft / load:** 3800

cost / mbf: \$412.73

machines: Log Loader (A)
 Forwarder
 Harvester
 Tower Yarder (Medium)

Combination#: 3 Douglas - Fir 20.21%
 Alder (Red) 19.77%

Logging System: Shovel **Process:** Harvester Head Delimiting

yarding distance: Medium (800 ft) **downhill yarding:** No

tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF

loads / day: 12 **bd. ft / load:** 3800

cost / mbf: \$117.19

machines: Forwarder
 Harvester



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Hollywood Hills
Sale TL-341-2022-W00910-01

District: Tillamook

Date: May 09, 2022

Logging Costs

Operating Seasons: 2.00	Profit Risk: 5%
Project Costs: \$210,190.00	Other Costs (P/R): \$14,026.00
Slash Disposal: \$0.00	Other Costs: \$12,842.74

Miles of Road

Road Maintenance: \$11.35

Dirt	Rock (Contractor)	Rock (State)	Paved
0.0	0.0	0.0	0.0

Hauling Costs

Species	\$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	\$0.00	2.0	4.0
Alder (Red)	\$0.00	3.0	4.7



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Hollywood Hills
Sale TL-341-2022-W00910-01

District: Tillamook

Date: May 09, 2022

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$333.34	\$11.92	\$2.15	\$157.50	\$3.43	\$25.42	\$0.00	\$2.00	\$3.14	\$538.90
Alder (Red)									
\$333.66	\$11.69	\$2.15	\$87.66	\$3.43	\$21.93	\$0.00	\$2.00	\$3.14	\$465.66

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$971.08	\$432.18	\$0.00
Alder (Red)	\$0.00	\$666.25	\$200.59	\$0.00



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Summary

Amortized

Specie	MBF	Value	Total
Douglas - Fir	0	\$0.00	\$0.00
Alder (Red)	0	\$0.00	\$0.00

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,221	\$432.18	\$1,392,051.78
Alder (Red)	867	\$200.59	\$173,911.53

Gross Timber Sale Value

Recovery: \$1,565,963.31

Prepared By: Nathan Atchison

Phone: 503-815-7031



PROJECT SUMMARY SHEET

Sale: Hollywood Hills

CONSTRUCTION

Point	E to F	4+50	stations =	\$2,956.85
Point	G to H	3+60	stations =	\$3,045.90
Point	K to L	1+75	stations =	\$1,433.73
Point	M to N	2+80	stations =	\$1,322.20
Point	O to P	14+55	stations =	\$8,122.43
Point	Q to R	6+05	stations =	\$2,172.88
Point	W to X	4+00	stations =	\$8,897.00
Point	AA to BB	2+15	stations =	\$5,306.58
SUBTOTAL CONSTRUCTION				\$33,257.57

IMPROVEMENT

Point	A to B	591+70	stations =	\$120,108.88
Point	C to D	61+95	stations =	\$16,559.11
Point	S to T	17+20	stations =	\$7,903.07
Point	U to V	25+80	stations =	\$9,436.77
Point	Y to Z	457+00	stations =	\$17,370.91
SUBTOTAL IMPROVEMENT				\$171,378.74

RECONSTRUCTION

Point	I to J	12+80	stations =	\$3,099.55
SUBTOTAL RECONSTRUCTION				\$3,099.55

SPECIAL PROJECTS

MOVE IN **\$2,454.14**

GRAND TOTAL **\$210,190.00**

SUMMARY OF CONSTRUCTION COST

Sale: Hollywood Hills	Road: A to B	
Construction - <u>0+00</u> stations 0.00 miles	Improvement - <u>591+70</u> stations 11.21 miles	Reconstruction - <u>0+00</u> stations 0.00 miles

IMPROVEMENT: CLEARING AND GRUBBING -					
Widening	0.094	acres @	\$860.00	per acre =	\$80.84
TOTAL CLEARING AND GRUBBING					\$80.84

IMPROVEMENT: EXCAVATION -					
Rip Rap Toe	50	cy. @	\$2.00	per c.y.=	\$100.00
Pullback	905	cy. @	\$2.00	per c.y.=	\$1,810.00
Widening	326	cy. @	\$2.00	per c.y.=	\$652.00
Ravel, sluff, erosion control, and ditch widening	1375	cy. @	\$2.00	per c.y.=	\$2,750.00
TOTAL EXCAVATION					\$5,312.00

IMPROVEMENT: ENDHAUL -								
Pullback	273+55	to	274+60	428	cy. @	\$1.68	per c.y.=	\$719.04
Pullback	274+60	to	275+00	116	cy. @	\$1.68	per c.y.=	\$194.88
Pullback	590+20	to	591+70	361	cy. @	\$1.39	per c.y.=	\$501.79
Widening	273+05	to	275+00	226	cy. @	\$1.69	per c.y.=	\$381.94
Widening	562+50	to	563+85	52	cy. @	\$1.99	per c.y.=	\$103.48
Widening	570+50	to	572+70	48	cy. @	\$3.01	per c.y.=	\$144.48
Rip Rap Toe	234+90	to	235+75	50	cy. @	\$3.01	per c.y.=	\$150.50
Ravel, sluff, erosion control	0+00	to	591+70	1375	cy. @	\$3.08	per c.y.=	\$4,235.00
Spread & compact				2656	cy. @	\$0.50	per c.y.=	\$1,328.00
TOTAL ENDHAUL								\$7,759.11

CULVERTS - MATERIALS & INSTALLATION						
<u>Culverts</u>	340	LF of 18"	\$6,800.00	30	LF of 24"	\$930.00
			\$6,800.00			\$930.00
<u>Culvert Stakes & Markers</u>	45	markers	\$360.00			
TOTAL CULVERTS						\$8,090.00

ROCK								
340+50 to	359+10	420	cy. of	Crushed	@	\$16.77	per c.y.=	\$7,043.40
503+10 to	572+70	2,470	cy. of	Jawrun	@	\$16.09	per c.y.=	\$39,742.30
Spot Rock	As Directed	300	cy. of	Crushed	@	\$19.84	per c.y.=	\$5,952.00
Turnout Rock	17+00	40	cy. of	Pitrun	@	\$8.51	per c.y.=	\$340.40
Dissipator Rock	161+30	10	cy. of	Rip Rap	@	\$18.55	per c.y.=	\$185.50
Rip Rap Toe	235+75	20	cy. of	Rip Rap	@	\$17.06	per c.y.=	\$341.20
Dissipator Rock	284+50	5	cy. of	Rip Rap	@	\$16.08	per c.y.=	\$80.40
Boulder Line 336+30	Rip Rap Pit	40	cy. of	Rip Rap	@	\$13.25	per c.y.=	\$530.00
Erosion Control Rock	As Directed	200	cy. of	Pitrun	@	\$12.75	per c.y.=	\$2,550.00
Waste area approach	516+70	50	cy. of	Jawrun	@	\$15.67	per c.y.=	\$783.50
Spot Rock	583+55	10	cy. of	Jawrun	@	\$17.01	per c.y.=	\$170.10
Culvert Backfill(222+00 to 531+05)	20yds each	160	cy. of	Crushed	@	\$15.86	per c.y.=	\$2,537.60
Energy Dissipator(0+00 to 222+00)	5yds each	20	cy. of	Rip Rap	@	\$18.26	per c.y.=	\$365.20
Erosion Control Rock	532+30	40	cy. of	Rip Rap	@	\$15.31	per c.y.=	\$612.40
Landing Rock	567+90	40	cy. of	Jawrun	@	\$16.69	per c.y.=	\$667.60
Landing Rock	572+00	40	cy. of	Jawrun	@	\$16.78	per c.y.=	\$671.20
Culvert Backfill(0+00 to 222+00)	30yds each	120	cy. of	Crushed	@	\$8.20	per c.y.=	\$984.00
Energy Dissipator(222+00 to 531+00)	5yds each	40	cy. of	Rip Rap	@	\$15.27	per c.y.=	\$610.80
Widening	273+05	20	cy. of	Jawrun	@	\$20.14	per c.y.=	\$402.80
Widening	273+05	10	cy. of	Crushed	@	\$18.06	per c.y.=	\$180.60
TOTAL ROCK								\$64,751.00

SPECIAL PROJECTS								
Ditching-No Endhaul	97.30	stations @	\$80.00	per station		\$7,784.00		
Ditching-Endhaul	79.05	stations @	\$130.00	per station		\$10,276.50		
Construct waste areas -	5.00	hours @	\$185.00	per hour		\$925.00		
Construct ditchouts -	10.00	@	\$60.00	each		\$600.00		
Landing intersection at station 567+90	2.00	hours @	\$350.00	per hour		\$700.00		
Grade and shape road -	360.65	stations @	\$22.00	per station		\$7,934.30		
Construct Catchbasins	1.00	@	\$60.00	each		\$60.00		
Roll subgrade w/ vibratory roller	238.75	stations @	\$17.50	per station		\$4,178.13		
Remove large stumps -	3.00	lump sum @	\$200.00			\$600.00		
Remove culverts from state lands	4.00	@	\$350.00	total		\$350.00		
Grass seed and fertilize -	2.25	acres @	\$280.00	per acre		\$630.00		
Mulching -	0.100	acres @	\$780.00	per acre		\$78.00		
TOTAL SPECIAL PROJECTS								\$34,115.93

GRAND TOTAL **\$120,108.88**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **C to D**

Construction -	0+00	stations	Improvement -	61+95	stations	Reconstruction -	0+00	stations
	0.00	miles		1.17	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -
Avg. Dist.

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.101	acres @	\$860.00 per acre =	\$86.86	
TOTAL CLEARING AND GRUBBING					\$86.86

IMPROVEMENT: EXCAVATION -

Ravel	300	cy. @	\$2.00 per c.y.=	\$600.00	
TOTAL EXCAVATION					\$600.00

IMPROVEMENT: ENDHAUL -

Ravel	24+90	to	25+50	12	cy. @	\$1.75 per c.y.=	\$21.00
Ravel	26+05	to	27+00	20	cy. @	\$1.66 per c.y.=	\$33.20
Ravel	0+00	to	0+00	0	cy. @	\$1.52 per c.y.=	\$0.00
Ravel	29+00	to	30+50	174	cy. @	\$1.44 per c.y.=	\$250.56
Ditch	28+00	to	32+85	94	cy. @	\$1.29 per c.y.=	\$121.26
Spread & compact				300	cy. @	\$0.50 per c.y.=	\$150.00
TOTAL ENDHAUL							\$576.02

ROCK

Spot Rock	As Directed	500	cy. of	Jawrun	@	\$20.30 per c.y.=	\$10,150.00
Approach Widening	61+95	40	cy. of	Jawrun	@	\$19.29 per c.y.=	\$771.60
TOTAL ROCK							\$10,921.60

SPECIAL PROJECTS

Construct Ditch-No Endhaul	12.90	stations @	\$80.00 per station	\$1,032.00
Construct Ditch-Endhaul	4.85	stations @	\$130.00 per station	\$630.50
Construct waste areas -	2.00	hours @	\$180.00 per hour	\$360.00
Construct ditchouts -	4.00	@	\$60.00 each	\$240.00
Construct Landing @ 33+25	3.00	hours @	\$200.00 per hour	\$600.00
Roll subgrade w/ vibratory roller prior to rocking -	61.95	stations @	\$17.50 per station	\$1,084.13
Remove large stumps -	2.00	lump sum @	\$200.00	\$400.00
Grass seed and fertilize -	0.10	acres @	\$280.00 per acre	\$28.00
TOTAL SPECIAL PROJECTS				\$4,374.63

GRAND TOTAL **\$16,559.11**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **E to F**

Construction -	4+50	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.09	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		4+50	15%			\$134				\$603.00
									TOTAL	\$603.00

ROCK										
0+00	to	1+00		50	cy. of	Pitrun	@	\$10.22	per c.y.=	\$511.00
Approach Widening		0+00		30	cy. of	Pitrun	@	\$10.21	per c.y.=	\$306.30
									TOTAL ROCK	\$817.30

SPECIAL PROJECTS										
Construct Landing						2.00	hours @	\$200.00	per hour	\$400.00
Construct Turnaround						0.50	hours @	\$200.00	per hour	\$100.00
Grade and shape road -						4.50	stations @	\$22.00	per station	\$99.00
Roll subgrade						4.50	stations @	\$17.50	per station	\$78.75
Remove large stumps -						4.00	lump sum @	\$200.00		\$800.00
Grass seed and fertilize -						0.21	acres @	\$280.00	per acre	\$58.80
									TOTAL SPECIAL PROJECTS	\$1,536.55

GRAND TOTAL **\$2,956.85**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **G to H**

Construction -	3+60	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.07	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		3+60	15%			\$134	=			\$482.40
									TOTAL	\$482.40

ROCK

0+00 to	1+00	50 cy. of	Pitrun	@	\$10.05 per c.y.=	\$502.50	
Approach Widening	0+00	30 cy. of	Pitrun	@	\$10.04 per c.y.=	\$301.20	
						TOTAL ROCK	\$803.70

SPECIAL PROJECTS

Construct Landing	2.00	hours @	\$185.00	per hour	\$370.00	
Grade and shape road -	3.60	stations @	\$22.00	per station	\$79.20	
Roll subgrade	3.60	stations @	\$17.50	per station	\$63.00	
Remove large stumps -	6.00	lump sum @	\$200.00		\$1,200.00	
Grass seed and fertilize -	0.17	acres @	\$280.00	per acre	\$47.60	
					TOTAL SPECIAL PROJECTS	\$1,759.80

GRAND TOTAL **\$3,045.90**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **I to J**

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>12+80</u>	stations
	0.00	miles		0.00	miles		0.24	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	0.750	acres @	\$1,275.00 per acre =	\$956.25	
TOTAL CLEARING AND GRUBBING					\$956.25

ROCK

0+00 to Approach Widening	1+00		50 cy. of Pitrun @ \$10.16 per c.y.=	\$508.00	
	0+00		30 cy. of Pitrun @ \$10.15 per c.y.=	\$304.50	
TOTAL ROCK					\$812.50

SPECIAL PROJECTS

Clean Ditches	7.50	stations @	\$80.00 per station	\$600.00	
Construct ditchouts -	1.00	@	\$60.00 each	\$60.00	
Grade and shape road -	12.80	stations @	\$22.00 per station	\$281.60	
Roll subgrade	12.80	stations @	\$17.50 per station	\$224.00	
Grass seed and fertilize -	0.59	acres @	\$280.00 per acre	\$165.20	
TOTAL SPECIAL PROJECTS					\$1,330.80

GRAND TOTAL **\$3,099.55**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **K to L**

<u>Construction -</u>	<u>1+75</u> stations <u>0.03</u> miles	<u>Improvement -</u>	<u>0+00</u> stations <u>0.00</u> miles	<u>Reconstruction -</u>	<u>0+00</u> stations <u>0.00</u> miles
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CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		1+75	15%			\$134				\$234.50
									TOTAL	\$234.50

ROCK

0+00 to	0+35	20	cy. of	Pitrun	@	\$10.16	per c.y.=	\$203.20	
Approach Widening	0+00	30	cy. of	Pitrun	@	\$10.15	per c.y.=	\$304.50	
								TOTAL ROCK	\$507.70

SPECIAL PROJECTS

Landing Construction	1.00	hours @	\$200.00	per hour	\$200.00	
Grade and shape road -	1.75	stations @	\$22.00	per station	\$38.50	
Roll subgrade w/ vibratory roller prior to rocking -	1.75	stations @	\$17.50	per station	\$30.63	
Remove large stumps -	2.00	lump sum @	\$200.00		\$400.00	
Grass seed and fertilize -	0.080	acres @	\$280.00	per acre	\$22.40	
					TOTAL SPECIAL PROJECTS	\$691.53

GRAND TOTAL **\$1,433.73**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **M to N**

Construction -	2+80	stations	Improvement -	0.00	stations	Reconstruction -	0+00	stations
	0.05	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		2+80	15%			\$134				\$375.20
									TOTAL	\$375.20

SPECIAL PROJECTS

Landing Construction	1.00	hours @	\$200.00	per hour	\$200.00
Grade and shape road -	2.80	stations @	\$22.00	per station	\$61.60
Roll subgrade w/ vibratory roller prior to rocking -	2.80	stations @	\$17.50	per station	\$49.00
Remove large stumps -	3.00	lump sum @	\$200.00		\$600.00
Grass seed and fertilize -	0.13	acres @	\$280.00	per acre	\$36.40
					TOTAL SPECIAL PROJECTS
					\$947.00
GRAND TOTAL					\$1,322.20

SUMMARY OF CONSTRUCTION COST

Sale:

Hollywood Hills

Road:

O to P

Construction -	14+55	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.28	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist. To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		0+85	10%			\$113	=			\$96.05
0+85		2+70	40%			\$303	=			\$560.55
2+70		5+55	15%			\$134	=			\$381.90
5+55		9+95	40%			\$303	=			\$1,333.20
9+95		12+95	20%			\$174	=			\$522.00
12+95		14+55	45%			\$336	=			\$537.60
									TOTAL	\$3,431.30

ROCK										
0+00	to	1+50	80	cy. of	Pitrun	@	\$10.54	per c.y.=	\$843.20	
Approach Widening		0+00	30	cy. of	Pitrun	@	\$10.52	per c.y.=	\$315.60	
									TOTAL ROCK	\$1,158.80

SPECIAL PROJECTS										
Construct Landing			2.00	hours @		\$200.00	per hour	\$400.00		
Construct Fill at station 0+00			3.00	hours @		\$390.00	per hour	\$1,170.00		
Construct Truck Turnaround @13+95			1.00	hours @		\$200.00	per hour	\$200.00		
Grade and shape road -			14.55	stations @		\$22.00	per station	\$320.10		
Roll subgrade w/ vibratory roller prior to rocking -			14.55	stations @		\$17.50	per station	\$254.63		
Remove large stumps -			5.00	lump sum @		\$200.00		\$1,000.00		
Grass seed and fertilize -			0.67	acres @		\$280.00	per acre	\$187.60		
									TOTAL SPECIAL PROJECTS	\$3,532.33

GRAND TOTAL **\$8,122.43**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **Q to R**

<u>Construction -</u>	<u>6+05</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.11	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

<u>Station</u>	<u>to</u>	<u>Station</u>	<u>Avg. Sideslope</u>	<u>Avg. Dist.</u> <u>To W.A. (mi.)</u>	<u>Outslope/Ditch</u>	<u>Cost per Station</u>	=	<u>Drill & Shoot</u>	<u>Endhaul</u>	
0+00		2+65	15%			\$134	=			\$355.10
2+65		6+05	25%			\$206	=			\$700.40
									TOTAL	\$1,055.50

SPECIAL PROJECTS

Landing Construction	1.00	hours @	\$200.00	per hour	\$200.00
Grade and shape road -	6.05	stations @	\$22.00	per station	\$133.10
Roll subgrade w/ vibratory roller prior to rocking -	6.05	stations @	\$17.50	per station	\$105.88
Remove large stumps -	3.00	lump sum @	\$200.00		\$600.00
Grass seed and fertilize -	0.28	acres @	\$280.00	per acre	\$78.40
					TOTAL SPECIAL PROJECTS
					\$1,117.38
GRAND TOTAL					\$2,172.88

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **S to T**

Construction -	0+00	stations	Improvement -	17+20	stations	Reconstruction -	0+00	stations
	0.00	miles		0.33	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.027	acres @	\$860.00	per acre =	\$23.22
TOTAL CLEARING AND GRUBBING					\$23.22

IMPROVEMENT: EXCAVATION -

Ravel	117	cy. @	\$2.00	per c.y.=	\$234.00
TOTAL EXCAVATION					\$234.00

IMPROVEMENT: ENDHAUL -

Ravel	0+00	to	2+65	39	cy. @	\$1.29	per c.y.=	\$50.31
Ravel	6+25	to	6+75	78	cy. @	\$1.28	per c.y.=	\$99.84
Spread & compact				117	cy. @	\$0.50	per c.y.=	\$58.50
TOTAL ENDHAUL								\$208.65

ROCK

Approach Widening	0+00	30	cy. of	Jawrun	@	\$16.40	per c.y.=	\$492.00
Landing Rock	9+35	70	cy. of	Jawrun	@	\$16.59	per c.y.=	\$1,161.30
Landing Rock	17+20	70	cy. of	Jawrun	@	\$16.75	per c.y.=	\$1,172.50
Spot Rock	As Directed	50	cy. of	Jawrun	@	\$16.56	per c.y.=	\$828.00
TOTAL ROCK								\$3,653.80

SPECIAL PROJECTS

9+35 Landing Construction	3.00	hours @	\$350.00	per hour	\$1,050.00
Construct waste areas -	1.00	hours @	\$200.00	per hour	\$200.00
Remove ravel at station 5+60	0.50	hours @	\$350.00	per hour	\$175.00
Remove trees from right-of-way	8.00	hours @	\$200.00	per hour	\$1,600.00
Fill in waterbars	1.00	hours @	\$350.00	per hour	\$350.00
Remove large stumps -	2.00	lump sum @	\$200.00		\$400.00
Grass seed and fertilize -	0.03	acres @	\$280.00	per acre	\$8.40
TOTAL SPECIAL PROJECTS					\$3,783.40

GRAND TOTAL **\$7,903.07**

SUMMARY OF CONSTRUCTION COST

Sale:

Hollywood Hills

Road:

U to V

<u>Construction -</u>	<u>0+00</u>	stations	<u>Improvement -</u>	<u>25+80</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	0.00	miles		0.49	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Ravel	176	cy. @	\$2.00	per c.y.=	\$352.00	
TOTAL EXCAVATION						\$352.00

IMPROVEMENT: ENDHAUL -

Ravel	14+95	to	15+80	9	cy. @	\$1.55	per c.y.=	\$13.95	
Ravel	18+30	to	20+80	151	cy. @	\$1.42	per c.y.=	\$214.42	
Spread & compact				160	cy. @	\$0.50	per c.y.=	\$80.00	
TOTAL ENDHAUL									\$308.37

ROCK

Spot Rock	As Directed	300	cy. of	Jawrun	@	\$17.26	per c.y.=	\$5,178.00	
Landing Rock	22+10	100	cy. of	Jawrun	@	\$17.44	per c.y.=	\$1,744.00	
Landing Rock	25+50	70	cy. of	Jawrun	@	\$17.51	per c.y.=	\$1,225.70	
TOTAL ROCK									\$8,147.70

SPECIAL PROJECTS

Construct waste areas -	1.00	hours @	\$200.00	per hour	\$200.00	
Fill in waterbars	1.00	hours @	\$130.00	per hour	\$130.00	
Fill in tank trap	1.00	hours @	\$200.00	per hour	\$200.00	
Ravel Removal @ 2+30	0.25	hours @	\$350.00	per hour	\$87.50	
Grass seed and fertilize -	0.04	acres @	\$280.00	per acre	\$11.20	
TOTAL SPECIAL PROJECTS						\$628.70

GRAND TOTAL **\$9,436.77**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **W to X**

Construction -	4+00	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.08	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		4+00	10%			\$113				\$452.00
										TOTAL
										\$452.00

ROCK

0+00 to	4+00	210	cy. of	Jawrun	@	\$16.67	per c.y.=	\$3,500.70	
Approach Widening	0+00	30	cy. of	Jawrun	@	\$16.63	per c.y.=	\$498.90	
Landing Rock	1+70	100	cy. of	Jawrun	@	\$16.66	per c.y.=	\$1,666.00	
Landing Rock	4+00	100	cy. of	Jawrun	@	\$16.71	per c.y.=	\$1,671.00	
TOTAL ROCK									\$7,336.60

SPECIAL PROJECTS

Construct Landings	1.00	hours @	\$200.00	per hour	\$200.00	
Endhaul slash	2.00	hours @	\$350.00	per hour	\$700.00	
Grade and shape road -	4.00	stations @	\$22.00	per station	\$88.00	
Roll subgrade w/ vibratory roller prior to rocking -	4.00	stations @	\$17.50	per station	\$70.00	
Grass seed and fertilize -	0.18	acres @	\$280.00	per acre	\$50.40	
TOTAL SPECIAL PROJECTS						\$1,108.40

GRAND TOTAL **\$8,897.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **Y to Z**

Construction -	0+00	stations	Improvement -	457+00	stations	Reconstruction -	0+00	stations
	0.00	miles		8.66	miles		0.00	miles

IMPROVEMENT: EXCAVATION -

Pullback	31	cy. @	\$2.00	per c.y.=	\$62.00
TOTAL EXCAVATION					\$62.00

IMPROVEMENT: ENDHAUL -

Pullback	194+60	to	194+95	31	cy. @	\$1.41	per c.y.=	\$43.71	
Spread & compact				31	cy. @	\$0.50	per c.y.=	\$15.50	
TOTAL ENDHAUL									\$59.21

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	40	LF of 18"	\$800.00
<u>Culvert Stakes & Markers</u>	1	markers	\$8.00

TOTAL CULVERTS \$808.00

ROCK

194+05 to	196+50	190	cy. of	Pitrun	@	\$7.46	per c.y.=	\$1,417.40	
194+05 to	196+50	70	cy. of	Crushed	@	\$12.22	per c.y.=	\$855.40	
Culvert Backfill	300+40	20	cy. of	Crushed	@	\$7.91	per c.y.=	\$158.20	
Dissipator Rock	300+40	5	cy. of	Rip Rap	@	\$7.47	per c.y.=	\$37.35	
Spot Rock	As Directed	150	cy. of	Crushed	@	\$14.38	per c.y.=	\$2,157.00	
TOTAL ROCK									\$4,625.35

SPECIAL PROJECTS

Spot Grade	4.00	hours @	\$130.00	per hour	\$520.00	
Grade and shape road -	457.00	stations @	\$22.00	per station	\$10,054.00	
Dig road down and endhaul(194+05 to 196+50)	1.00	@	\$310.00	each	\$310.00	
Roll subgrade w/ vibratory roller prior to rocking -	42.70	stations @	\$17.50	per station	\$747.25	
Remove culverts from state lands	1.00	@	\$146.50	total	\$146.50	
Grass seed and fertilize -	0.11	acres @	\$280.00	per acre	\$30.80	
Mulching -	0.010	acres @	\$780.00	per acre	\$7.80	
TOTAL SPECIAL PROJECTS						\$11,816.35

GRAND TOTAL **\$17,370.91**

SUMMARY OF CONSTRUCTION COST

Sale: **Hollywood Hills**

Road: **AA to BB**

Construction -	2+15	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.04	miles		0.00	miles		0.00	miles

CONSTRUCTION: CLEARING, GRUBBING, SCATTERING, EXCAVATION, COMPACTION, LOADING, END-HAULING AND SPREADING/COMPACTING AT WASTE AREA -

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station	=	Drill & Shoot	Endhaul	
0+00		2+15	12%			\$113	=			\$242.95
									TOTAL	\$242.95

ROCK

0+00 to		1+20		60	cy. of	Pitrun	@	\$9.89 per c.y.=		\$593.40
Approach Widening		0+00		30	cy. of	Pitrun	@	\$9.91 per c.y.=		\$297.30
									TOTAL ROCK	\$890.70

SPECIAL PROJECTS

Construct Landing	2.00	hours @	\$180.00	per hour	\$360.00
Ecology Blocks	1.00	@	\$3,100.00	each	\$3,100.00
Grade and shape road -	2.15	stations @	\$22.00	per station	\$47.30
Roll subgrade w/ vibratory roller prior to rocking -	2.15	stations @	\$17.50	per station	\$37.63
Remove large stumps -	3.00	lump sum @	\$200.00		\$600.00
Grass seed and fertilize -	0.10	acres @	\$280.00	per acre	\$28.00
					TOTAL SPECIAL PROJECTS
					\$4,172.93

GRAND TOTAL **\$5,306.58**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Stockpiles	Location:	Varies
Sale:	Hollywood Hills	Road:	1290 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	1290 c.y.
Drill Pct.:	0%	In Place Total:	921 c.y.

Load Dump Truck: \$1.00 /cu.yd. x 1290 cu.yds. = \$1,290.00

Subtotal \$1,290.00

Move in Roller and Compactor	1	@	\$249.50	=	\$249.50
Move in Grader	1	@	\$243.90	=	\$243.90
Move in Loader	4	@	\$277.14	=	\$1,108.56
Move in Trucks	4	@	\$84.43	=	\$337.72
Move in Water Truck	1	@	\$84.43	=	\$84.43
					Subtotal \$2,024.11

Base Cost= \$2.57 Per Cu.Yd. TOTAL PRODUCTION COSTS \$3,314.11

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base/load Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 34050 35910 (Crushed)	11.00	3.20	2.57	16.77	420	\$7,043.40
A to B Spot Rock (Crushed)	14.07	3.20	2.57	19.84	300	\$5,952.00
A to B Turnout Rock (Pitrun)	2.74	3.20	2.57	8.51	40	\$340.40
A to B Culvert Backfill(222+00 to 531+05	12.29	1.00	2.57	15.86	160	\$2,537.60
A to B Culvert Backfill(0+00 to 222+00)	4.63	1.00	2.57	8.20	120	\$984.00
A to B Widening (Crushed)	12.29	3.20	2.57	18.06	10	\$180.60
Y to Z 19405 19650 (Crushed)	6.45	3.20	2.57	12.22	70	\$855.40
Y to Z Culvert Backfill (Crushed)	4.34	1.00	2.57	7.91	20	\$158.20
Y to Z Spot Rock (Crushed)	8.61	3.20	2.57	14.38	150	\$2,157.00
				Total C.Y.	1290	Sub Total \$20,208.60

TOTAL ROCKING COSTS \$20,208.60

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jawrun	Location:	Sec. 13 , T2S, R8W, W.M.
Sale:	Hollywood Hills	Road:	4300 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	4300 c.y.
Drill Pct.:	0%	In Place Total:	3071 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area & adjacent to pit, place overburden in Waste Area, spread and compact. \$2,160.00

Push Rock:	\$1.00 /cu.yd.	x	4300 cu.yds.	=	\$4,300.00
Load Crusher:	\$1.00 /cu.yd.	x	4300 cu.yds.	=	\$4,300.00
Crush Rock:	\$3.50 /cu.yd.	x	4300 cu.yds.	=	\$15,050.00
Load Dump Truck:	\$2.00 /cu.yd.	x	4300 cu.yds.	=	\$8,600.00
Screen & Reject	\$1.60 /cu.yd.	x	4300 cu.yds.	=	\$6,880.00
Haul Reject Material	\$2.00 /cu.yd.	x	1075 cu.yds.	=	\$2,150.00

Subtotal \$43,440.00

Move In/Set-up Jaw	1	@	\$2,010.00	=	\$2,010.00
Move in D-8	1	@	\$774.14	=	\$774.14
Move in Loader	1	@	\$607.14	=	\$607.14
Move in Excavator	1	@	\$722.14	=	\$722.14
					Subtotal \$4,113.42

TOTAL PRODUCTION COSTS \$47,553.42

Base Cost= \$11.06 Per Cu.Yd.

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B 50310 57270 (Jawrun)	1.83	3.20	11.06	16.09	2470	\$39,742.30
A to B Waste area approach (Jawrun)	1.41	3.20	11.06	15.67	50	\$783.50
A to B Spot Rock (Jawrun)	2.75	3.20	11.06	17.01	10	\$170.10
A to B Landing Rock (Jawrun)	2.43	3.20	11.06	16.69	40	\$667.60
A to B Landing Rock (Jawrun)	2.52	3.20	11.06	16.78	40	\$671.20
A to B Widening (Jawrun)	5.88	3.20	11.06	20.14	20	\$402.80
C to D Spot Rock (Jawrun)	6.04	3.20	11.06	20.30	500	\$10,150.00
C to D Approach Widening (Jawrun)	5.03	3.20	11.06	19.29	40	\$771.60
S to T Approach Widening (Jawrun)	2.14	3.20	11.06	16.40	30	\$492.00
S to T Landing Rock (Jawrun)	2.33	3.20	11.06	16.59	70	\$1,161.30
S to T Landing Rock (Jawrun)	2.49	3.20	11.06	16.75	70	\$1,172.50
S to T Spot Rock (Jawrun)	2.30	3.20	11.06	16.56	50	\$828.00
U to V Spot Rock (Jawrun)	3.00	3.20	11.06	17.26	300	\$5,178.00
U to V Landing Rock (Jawrun)	3.18	3.20	11.06	17.44	100	\$1,744.00
U to V Landing Rock (Jawrun)	3.25	3.20	11.06	17.51	70	\$1,225.70
W to X 0 400 (Jawrun)	2.41	3.20	11.06	16.67	210	\$3,500.70
W to X Approach Widening (Jawrun)	2.37	3.20	11.06	16.63	30	\$498.90
W to X Landing Rock (Jawrun)	2.40	3.20	11.06	16.66	100	\$1,666.00
W to X Landing Rock (Jawrun)	2.45	3.20	11.06	16.71	100	\$1,671.00
Total C.Y.					4300	Sub Total \$72,497.20

TOTAL ROCKING COSTS \$72,497.20

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Pitrun Pit	Location:	Sec. 29, T2S, R7W, W.M.
Sale:	Hollywood Hills	Road:	690 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	690 c.y.
Drill Pct.:	0%	In Place Total:	493 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$1,000.00
Rip Rock:	\$3.00 /cu.yd. x 493 cu.yds. = \$1,479.00
Load Dump Truck:	\$1.00 /cu.yd. x 690 cu.yds. = \$690.00

Subtotal \$3,169.00

Move in Excavator	1	@	\$392.14	=	\$392.14
					Subtotal \$392.14

Base Cost=	\$5.16	Per Cu.Yd.			TOTAL PRODUCTION COSTS \$3,561.14
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Erosion Control Rock (Pitrun)	5.89	1.70	5.16	12.75	200	\$2,550.00
E to F 0 100 (Pitrun)	3.36	1.70	5.16	10.22	50	\$511.00
E to F Approach Widening (Pitrun)	3.35	1.70	5.16	10.21	30	\$306.30
G to H 0 100 (Pitrun)	3.19	1.70	5.16	10.05	50	\$502.50
G to H Approach Widening (Pitrun)	3.18	1.70	5.16	10.04	30	\$301.20
I to J 0 100 (Pitrun)	3.30	1.70	5.16	10.16	50	\$508.00
I to J Approach Widening (Pitrun)	3.29	1.70	5.16	10.15	30	\$304.50
K to L 0 35 (Pitrun)	3.30	1.70	5.16	10.16	20	\$203.20
K to L Approach Widening (Pitrun)	3.29	1.70	5.16	10.15	30	\$304.50
O to P 0 150 (Pitrun)	3.68	1.70	5.16	10.54	80	\$843.20
O to P Approach Widening (Pitrun)	3.66	1.70	5.16	10.52	30	\$315.60
AA to BB 0 120 (Pitrun)	3.03	1.70	5.16	9.89	60	\$593.40
AA to BB Approach Widening (Pitrun)	3.05	1.70	5.16	9.91	30	\$297.30
					Total C.Y. 690	Sub Total \$7,540.70

TOTAL ROCKING COSTS \$7,540.70

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Rip Rap	Location:	Sec. 19, T2S, R7W, W.M.
Sale:	Hollywood Hills	Road:	175 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	175 c.y.
Drill Pct.:	0%	In Place Total:	125 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact.	\$800.00
Rip Rock:	\$3.00 /cu.yd. x 175 cu.yds. = \$525.00
Load Dump Truck:	\$1.00 /cu.yd. x 175 cu.yds. = \$175.00

Subtotal \$1,500.00

Move in Excavator	1	@	\$392.14	=	\$392.14
					Subtotal \$392.14

Base Cost=	\$10.81	Per Cu.Yd.			TOTAL PRODUCTION COSTS \$1,892.14
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Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
A to B Dissipator Rock (Rip Rap)	6.54	1.20	10.81	18.55	10	\$185.50
A to B Rip Rap Toe (Rip Rap)	5.05	1.20	10.81	17.06	20	\$341.20
A to B Dissipator Rock (Rip Rap)	4.07	1.20	10.81	16.08	5	\$80.40
A to B Boulder Line 336+30 (Rip Rap)	1.24	1.20	10.81	13.25	40	\$530.00
A to B Energy Dissipator(0+00 to 222+00)	6.25	1.20	10.81	18.26	20	\$365.20
A to B Erosion Control Rock (Rip Rap)	3.30	1.20	10.81	15.31	40	\$612.40
A to B Energy Dissipator(222+00 to 531+)	3.26	1.20	10.81	15.27	40	\$610.80
				Total C.Y.	175	Sub Total \$2,725.50

TOTAL ROCKING COSTS \$2,725.50

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	High Face Pit	Location:	Sec. 4, T3S, R7W, W.M.
Sale:	Hollywood Hills	Road:	195 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	195 c.y.
Drill Pct.:	0%	In Place Total:	139 c.y.

Load Dump Truck: \$1.00 /cu.yd. x 195 cu.yds. = \$195.00

Subtotal \$195.00

Move in Excavator 1 @ \$392.14 = \$392.14

Subtotal \$392.14

Base Cost= \$3.01 Per Cu.Yd. TOTAL PRODUCTION COSTS \$587.14

Road Segment	Haul Cost \$/cu.yd.	Proc Cost \$/cu.yd.	Base Cost. \$/cu.yd.	Cost \$/cu.yd.	Number Cu. Yds	ROCK COST
Y to Z 19405 19650 (Pitrun)	1.25	3.20	3.01	7.46	190	\$1,417.40
Y to Z Dissipator Rock (Rip Rap)	3.26	1.20	3.01	7.47	5	\$37.35
				Total C.Y.	195	Sub Total \$1,454.75

TOTAL ROCKING COSTS \$1,454.75

Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Hollywood Hills**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
26.0	Pavement	30
0.5	Main Lines	7
0.0	Steep Grades	2

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Excavators (Large)	\$392.14	1	\$44.80	0.00	12.00	12	\$537.60	\$929.74
1	Tractors (D7)	\$444.14	2	\$11.30	0.00	12.00	12	\$135.60	\$579.74
2	Dump Truck (Off Hiway)	\$720.76	1	\$4.75	0.00	12.00	12	\$114.00	\$834.76
1	Water Truck (2500 Gal)	\$98.50		\$2.85	0.00	4.00	4	\$11.40	\$109.90
TOTAL MOVE-IN COSTS:								\$2,454.14	



OREGON DEPARTMENT OF FORESTRY
 CRUISE REPORT
Hollywood Hills

1. Type of Sale

Regeneration harvest, Recovery

2. Legal Description

Sections 12, 13, of T2S, R8W, and Sections 18, 30 of T2S, R7W, Tillamook County, W.M.

3. Sale Acreage

Sale acreage was determined by GPS and orthophotographs along with GIS.

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Modified Clearcut)	143	113
Unit 2 (Modified Clearcut)	66	54
Total	209	167

Gross Acres

Area within the Timber Sale Boundary signs

Net acres

Used for calculating the advertised volume.

Gross acres, less green tree retention, roads, Non-required thinning areas, and riparian areas classified as Special Stewardship in LMCS inside the sale boundary.

4. Cruising Procedures

A. Cruise Method

Timber sale units 1 and 2 were cruised using variable plot sampling. All units were cruised by ODF Staff in April and May 2022. All conifers 8” DBH and greater containing 20 board feet and all hardwoods 10” DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6” and 7” outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	40.00	400’ x 225’
2	40.00	300’ x 275’

C. Grading System

All trees were graded according to Columbia River Log Scaling and Grading Rules. Log lengths favored 40’ lengths.

5. Computation Procedure

Plot data was entered into SuperAce for computation of basal area, advertised volume, volume summary, log stock table, and stand table for each species and type.

Net sale acreage was used for volume calculation.

Unit	Cruise Statistics (Board Foot Volumes)			
	Acres	Number of Plots	SE (%)	CV (%)
1	113	54	5.5	40.4
2	54	28	9.1	47.3
Project Total	167	82	4.7	42.9

6. Hidden Defect and Breakage

A 1% reduction for conifers and a 2% reduction for hardwood volumes were applied for hidden defect and breakage.

7. Timber Description

Units 1 and 2 are prescribed modified clearcuts. Unit 1 is a Douglas-fir dominated stand with good amounts of red alder and sparse western hemlock. The eastern portion of Unit 1 was thinned in 2003-2004. Unit 2 is comprised of Douglas-fir and red alder with minor elements of Sitka spruce and western hemlock.

Both stands were burned in the 1951 North Fork Fire.

Douglas-fir in both units present Swiss Needle Cast.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)	Merchantable top (inches inside bark)
1	55	Douglas-fir	16.6	71	5
		red alder	16.0	49	6
2	60	Douglas-fir	15.5	60	5
		red alder	15.5	47	6

Above data derived from Statistics (type) report using SuperAce 2008, developed by Atterbury consultants, Inc.

8. Cruiser /Dates

ODF Staff Cruised both units April-May 2022.

9. Revenue Distribution

BOF – 100%

Tax Code: 801 (68%), 901 (32%)

Deed Numbers: 169, 230

10. Attachments

Volume Summary Table (2)

Stand Table (2)

Log Stock Tables (2)

Species, Sort, Grade Table (2)

Logging Plan (2)

11. Stand and Log Stock Tables Species Key

DF – Douglas-fir take

WL – western hemlock leave

RA – red alder take

T02S R08W S30 T0100										T02S R08W S30 T0100				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
02S	08W	30	UNIT1	0100	113.00	54	285	S	W					

S Twp	So Rge	Gr Ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
								Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
								4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99					
DF	CO	2	48	1.0	9,852	9,754	1,102		77	23				100	40	14	299	1.76	32.6	
DF	CO	3	42	1.0	8,415	8,335	942		97	3			1	0	99	40	8	104	0.70	80.2
DF	CO	4	10		1,986	1,986	224	97	3			17	33	18	33	28	5	30	0.32	66.1
DF	Totals		79	.9	20,254	20,075	2,268	10	40	39	11	2	4	2	93	36	8	112	0.81	178.9
RA	H	1	2		112	112	13				100	100			20	18	270	2.33	.4	
RA	H	2	12	2.0	690	676	76		55	45		47	53		24	14	182	1.49	3.7	
RA	H	3	35	1.9	1,912	1,876	212		63	37		11	21	5	63	33	11	142	1.21	13.2
RA	H	4	51	4.3	2,793	2,673	302		92	8		14	25	12	49	30	7	54	0.59	49.5
RA	Totals		21	3.1	5,508	5,338	603		69	24	8	19	26	8	46	30	8	80	0.77	66.8
WL	CO	4	100		24	24	3	100						100	32	5	30	0.46	.8	
WL	Totals		0		24	24	3	100						100	32	5	30	0.46	.8	
Type Totals				1.4	25,785	25,436	2,874	8	46	35	11	5	8	3	83	34	8	103	0.80	246.6

TC TSTNDSUM														Stand Table Summary			
Project														HILLFINL			
T02S R08W S30 T0100											T02S R08W S30 T0100						
Twp	Rge	Sec	Tract		Type	Acres	Plots	Sample Trees			Page:	2					
02S	08W	30	UNIT1		0100	113.00	54	285			Date:	06/28/2021					
											Time:	11:07:50AM					
S Spc	T	Sample DBH	FF Trees	Av Ht 16' Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals				
								Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF		
OC		Totals	4	89	115	1.323	2.96										
		Totals	142	84	88	143.497	211.11	246.56	27.1	103.2	189.11	6689	25,436	21,370	7,559	2,874	

TC		TLOGSTVB		Log Stock Table - MBF																		
Project:										HILLFINL												
T02S R08W S30 T0100										T02S R08W S30 T0100												
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1													
02S	08W	30	UNIT1	0100	113.00	54	285	Date	6/28/2022													
									Time	11:07:50AM												
Spp	T	So	Gr	Log	Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
										2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF		CO	2	40		1,113	1.0	1,102	48.6					492	252	241	50	67				
DF		CO	3	26		9	9.1	8	.4					8								
DF		CO	3	30		3		3	.1					3								
DF		CO	3	32		3		3	.1													
DF		CO	3	40		936	.9	928	40.9					193	310	394	8	23				
DF		CO	4	12		1		1	.0					1								
DF		CO	4	14		2		2	.1					1								
DF		CO	4	15		8		8	.3					8								
DF		CO	4	16		5		5	.2					4								
DF		CO	4	17		2		2	.1					2								
DF		CO	4	18		2		2	.1					2								
DF		CO	4	19		4		4	.2					4								
DF		CO	4	20		15		15	.7					15								
DF		CO	4	23		12		12	.5					12								
DF		CO	4	24		18		18	.8					16								
DF		CO	4	26		13		13	.6					11								
DF		CO	4	27		2		2	.1					2								
DF		CO	4	29		5		5	.2					5								
DF		CO	4	30		24		24	1.0					24								
DF		CO	4	31		5		5	.2					5								
DF		CO	4	32		2		2	.1					2								
DF		CO	4	33		6		6	.2					6								
DF		CO	4	34		27		27	1.2					27								
DF		CO	4	36		18		18	.8					18								
DF		CO	4	38		5		5	.2					5								
DF		CO	4	40		51		51	2.2					51								
DF		Totals				2,289		2,268	78.9					217	202	311	405	500	275	241	50	67
RA		H	1	20		13		13	2.1										13			
RA		H	2	18		11		11	1.8					11								
RA		H	2	20		25		25	4.2					10					15			
RA		H	2	28		11		11	1.8					11								
RA		H	2	30		31	5.0	29	4.9					10					19			
RA		H	3	18		6		6	.9					6								
RA		H	3	20		19		19	3.1					19								
RA		H	3	22		3		3	.4					3								
RA		H	3	24		1		1	.2					1								
RA		H	3	28		24		24	3.9					24								
RA		H	3	30		19	11.1	17	2.7					4	13							
RA		H	3	32		11		11	1.8					11								
RA		H	3	40		135	1.5	133	22.1					93	40							
RA		H	4	16		8		8	1.4					2	6							
RA		H	4	18		4		4	.7					4								
RA		H	4	20		31		31	5.2					21		10						
RA		H	4	21		7		7	1.2							7						
RA		H	4	22		7		7	1.1					1		6						
RA		H	4	23		3		3	.5					3								
RA		H	4	24		6		6	.9					6								
RA		H	4	26		18	18.0	15	2.4					7					8			
RA		H	4	27		3		3	.4					3								
RA		H	4	28		3		3	.4					3								

Log Stock Table - MBF
Project: HILLFINL

T02S R08W S30 T0100

T02S R08W S30 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	2
02S	08W	30	UNIT1	0100	113.00	54	285	Date	6/28/2022
								Time	11:07:50AM

Spp	T	S	So	Gr	Log	Gross	% Def	Net	% Spc	Net Volume by Scaling Diameter in Inches										
										MBF	MBF	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23
RA	H	4	30			33		33	5.4			13	19							
RA	H	4	31			10		10	1.7			10								
RA	H	4	32			12	28.6	9	1.4			9								
RA	H	4	33			4		4	.7			4								
RA	H	4	34			10		10	1.7			10								
RA	H	4	35			5	32.8	4	.6			4								
RA	H	4	36			18		18	2.9			18								
RA	H	4	40			124	4.2	119	19.7			38	72		9					
RA	H	4	41			10		10	1.6			10								
RA Totals						622	3.1	603	21.0			167	97	149	128	7	40	15		
WL	CO	4	32			3		3	100.0			3								
WL Totals						3		3	.1			3								
Total All Species						2,914	1.4	2,874	100.0			220	369	408	555	628	282	281	65	67

T02S R08W S12 T0100										T02S R08W S12 T0100				
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	CuFt	BdFt					
02S	08W	12	UNIT2	0100	54.00	28	148	S	W					

Spp	So	Gr	%	Bd. Ft. per Acre			Total	Percent Net Board Foot Volume								Average Log				Logs Per /Acre		
								Net BdFt	Def%	Gross	Net	Net MBF	Log Scale Dia.				Log Length				Ln Ft	Dia In
				4-5	6-11	12-16							17+	12-20	21-30	31-35	36-99					
DF	CO	2	46	.9	8,583	8,503	459		74	26		1		2	97	39	14	307	1.89	27.7		
DF	CO	3	39	.5	7,093	7,060	381		93	7			1	3	97	40	8	102	0.74	69.3		
DF	CO	4	15		2,698	2,698	146	86	14			27	25	6	42	27	5	30	0.34	88.6		
DF	Totals		78	.6	18,374	18,261	986	13	38	37	12	4	4	3	89	34	8	98	0.78	185.6		
RA	H	2	4		232	232	13			100				100		24	19	360	2.43	.6		
RA	H	3	12		646	646	35	64	36					100		28	11	123	1.06	5.3		
RA	H	4	84	.2	4,347	4,338	234	94	6			4	10	8	78	33	7	75	0.74	57.9		
RA	Totals		22	.2	5,226	5,216	282	86	9	4		3	25	6	65	33	8	82	0.77	63.8		
Type Totals				.5	23,600	23,477	1,268	10	49	31	10	4	9	4	83	33	8	94	0.78	249.4		

TC		TSTNDSUM		Stand Table Summary												
Project														HILLFINL		
T02S R08W S12 T0100										T02S R08W S12 T0100						
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page:	1							
02S	08W	12	UNIT2	0100	54.00	28	148	Date:	05/06/2021							
								Time:	1:39:24PM							
S Spc	T	Sample		Av	Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals			
		DBH	Trees	FF 16'				Ht Tot	Net Cu.Ft.				Net Bd.Ft.	Tons	Cunits	MBF
DF		8	1	82	62	6.667	2.33	6.67	7.3	30.0	1.38	49	200	75	26	11
DF		9	2	74	42	10.535	4.65	10.54	5.8	20.0	1.74	61	211	94	33	11
DF		10	2	88	62	8.534	4.65	8.53	11.0	40.0	2.67	94	341	144	51	18
DF		11	3	84	67	10.579	6.98	14.11	11.8	37.5	4.73	166	529	256	90	29
DF		12	3	75	80	8.889	6.98	8.89	20.5	60.0	5.20	183	533	281	99	29
DF		13	4	83	86	10.099	9.31	20.20	14.0	50.0	8.08	283	1,010	436	153	55
DF		14	3	84	82	6.531	6.98	13.06	15.7	53.3	5.84	205	697	316	111	38
DF		15	5	84	82	9.482	11.64	17.07	20.3	72.2	9.89	347	1,233	534	187	67
DF		16	5	82	99	8.334	11.64	16.67	24.2	87.0	11.49	403	1,450	620	218	78
DF		17	2	87	118	2.953	4.65	7.38	25.5	106.0	5.37	188	782	290	102	42
DF		18	3	82	83	3.951	6.98	6.58	31.9	106.0	5.98	210	698	323	113	38
DF		19	6	84	105	7.092	13.96	14.18	35.5	121.7	14.34	503	1,726	774	272	93
DF		20	3	86	104	3.200	6.98	6.40	40.9	151.7	7.45	262	971	403	141	52
DF		21	2	84	106	1.935	4.65	3.87	43.8	152.5	4.83	169	590	261	92	32
DF		22	3	83	115	2.645	6.98	6.17	46.3	178.6	8.14	286	1,102	440	154	60
DF		23	3	86	115	2.420	6.98	6.45	44.5	187.5	8.18	287	1,210	442	155	65
DF		25	5	79	115	3.413	11.64	8.87	51.7	200.0	13.07	459	1,775	706	248	96
DF		26	1	72	105	.631	2.33	1.26	66.8	180.0	2.40	84	227	130	46	12
DF		27	1	81	141	.585	2.33	1.76	62.6	276.7	3.13	110	486	169	59	26
DF		29	1	71	131	.507	2.33	1.52	65.3	223.3	2.83	99	340	153	54	18
DF		30	2	88	137	.948	4.65	2.84	79.3	395.0	6.43	226	1,124	347	122	61
DF		31	1	80	149	.444	2.33	1.33	85.0	376.7	3.23	113	502	174	61	27
DF		32	1	80	150	.417	2.33	1.25	92.0	420.0	3.28	115	525	177	62	28
DF		Totals	62	82	83	110.790	144.29	185.61	26.4	98.4	139.70	4,902	18,261	7,544	2,647	986
RA		10	1	82	84	3.718	2.03	3.72	14.8	60.0	1.52	55	223	82	30	12
RA		11	2	65	76	6.145	4.06	6.14	19.5	55.0	3.30	120	338	178	65	18
RA		12	2	80	76	5.163	4.06	7.75	15.0	53.3	3.19	116	413	172	63	22
RA		13	3	83	57	6.599	6.08	6.60	19.4	60.0	3.52	128	396	190	69	21
RA		14	1	81	94	1.897	2.03	3.79	16.9	55.0	1.76	64	209	95	35	11
RA		15	1	88	57	1.652	2.03	1.65	22.6	100.0	1.03	37	165	55	20	9
RA		16	4	80	88	5.809	8.11	10.17	27.0	91.4	7.55	274	929	407	148	50
RA		17	5	86	71	6.432	10.14	9.00	31.3	118.6	7.75	282	1,068	419	152	58
RA		18	2	82	66	2.295	4.06	2.29	41.6	105.0	2.62	95	241	142	52	13
RA		19	3	78	68	3.089	6.08	5.15	33.6	94.0	4.76	173	484	257	94	26
RA		20	2	76	61	1.859	4.06	2.79	29.9	56.7	2.29	83	158	124	45	9
RA		21	1	78	61	.843	2.03	.84	29.9	60.0	.69	25	51	37	14	3
RA		22	1	77	68	.768	2.03	.77	48.2	120.0	1.02	37	92	55	20	5
RA		23	1	73	89	.703	2.03	1.41	29.4	105.0	1.14	41	148	61	22	8
RA		24	1	91	73	.645	2.03	1.29	46.8	210.0	1.66	60	271	90	33	15
RA		29	1	85	62	.442	2.03	.44	59.9	70.0	.73	26	31	39	14	2
RA		Totals	31	80	73	48.059	62.86	63.80	25.4	81.8	44.52	1,619	5,216	2,404	874	282
OC		18	1	88	124	.808	1.43									
OC		Totals	1	88	124	.808	1.43									
Totals		94	81	80		159.658	208.57	249.41	26.1	94.1	184.23	6521	23,477	9,948	3,521	1,268

TC		TLOGSTVB		Log Stock Table - MBF																	
Project:										HILLFINL											
T02S R08W S12 T0100										T02S R08W S12 T0100											
Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees	Page	1												
02S	08W	12	UNIT2	0100	54.00	28	148	Date	5/6/2022												
									Time	1:25:42PM											
Spp	T	So	Gr	Log	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches												
									2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+	
DF	CO	2	16		3		3	.3					3								
DF	CO	2	32		10		10	1.0						10							
DF	CO	2	40		450	1.0	446	45.2					140	131	102	73					
DF	CO	3	28		4		4	.4				4									
DF	CO	3	32		10		10	1.0			2		8								
DF	CO	3	36		4		4	.4				4									
DF	CO	3	40		366	.5	364	36.9			86	115	138	16	9						
DF	CO	4	12		0		0	.0		0											
DF	CO	4	14		1		1	.1		1											
DF	CO	4	16		6		6	.6		5		1									
DF	CO	4	18		9		9	.9		9											
DF	CO	4	20		23		23	2.3		21	2										
DF	CO	4	24		8		8	.8		5	3										
DF	CO	4	26		10		10	1.0				10									
DF	CO	4	30		19		19	2.0		19											
DF	CO	4	32		6		6	.6		6											
DF	CO	4	34		3		3	.3		3											
DF	CO	4	36		20		20	2.0		20											
DF	CO	4	40		42		42	4.2		37			5								
DF	Totals				992		986	77.8		126	93	133	150	158	150	102	73				
RA	H	2	24		13		13	4.5							13						
RA	H	3	24		6		6	2.2				6									
RA	H	3	28		9		9	3.2				9									
RA	H	3	30		20		20	7.0				7	13								
RA	H	4	13		1		1	.4			1										
RA	H	4	16		3		3	1.0			3										
RA	H	4	18		1		1	.4			1										
RA	H	4	20		5		5	1.7			5										
RA	H	4	24		6		6	2.2			6										
RA	H	4	28		6		6	2.1			6										
RA	H	4	30		12		12	4.3			12										
RA	H	4	32		3		3	1.2			3										
RA	H	4	34		14		14	5.1			14										
RA	H	4	36		14		14	5.1			5	10									
RA	H	4	38		2		2	.6			2										
RA	H	4	40		167	.3	167	59.1			27	58	67	14							
RA	Totals				282		282	22.2		86	68	89	26		13						
Total All Species					1,274		1,268	100.0		126	178	201	240	185	150	115	73				



"STEWARDSHIP IN FORESTRY"

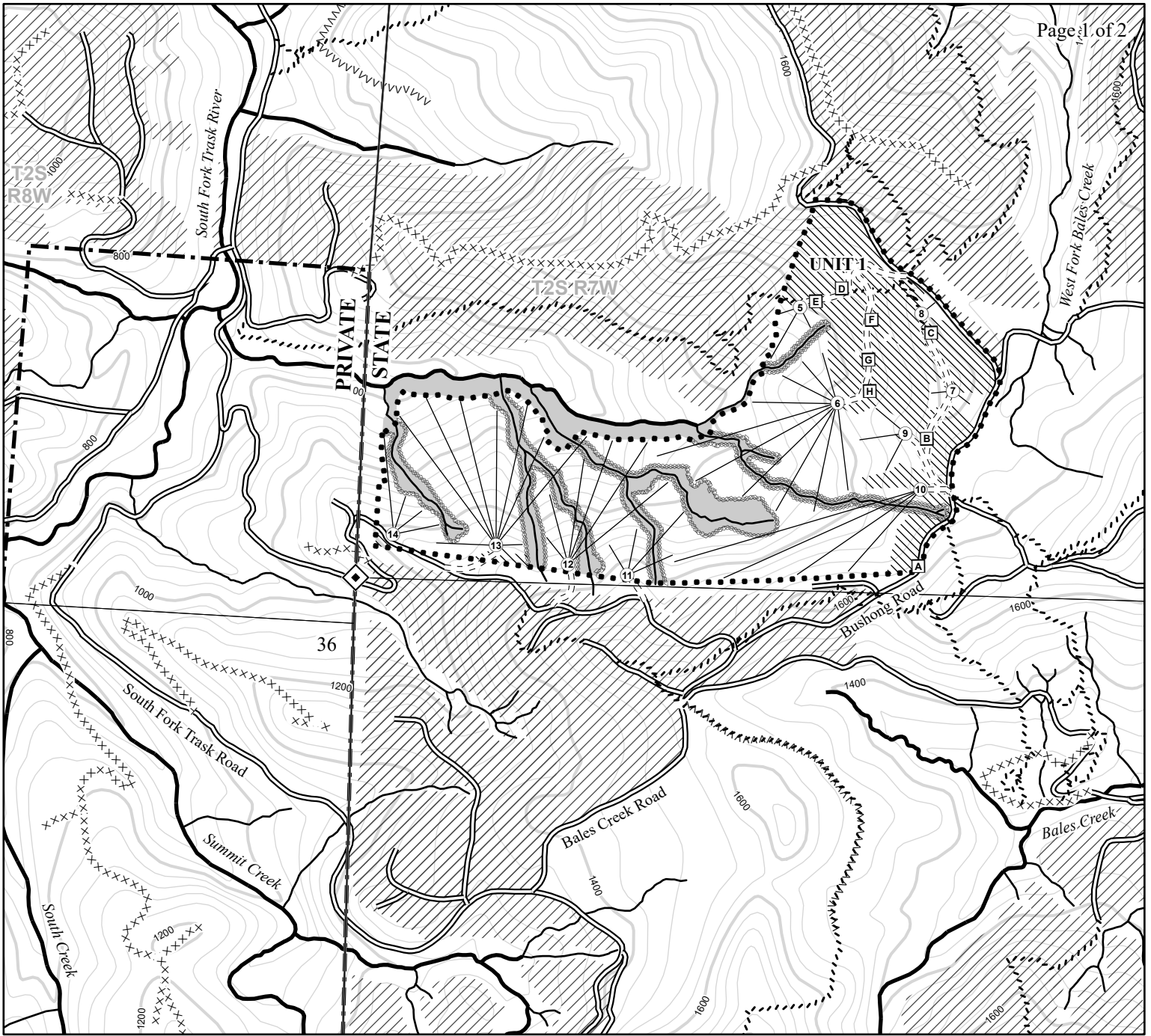
Hollywood Hills

Volume Summary

Unit 1-Modified Clearcut				
113 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	20.1	2268	1%	2245
Red Alder	5.34	603	2%	591
TOTAL	25.4	2871		2836

Unit 2-Modified Clearcut				
54 acres				
SPECIES	Cruised Net MBF/ Acre	Cruised Net MBF	Hidden D&B	Net Sale MBF
Douglas-fir	18.26	986	1%	976
Red Alder	5.22	282	2%	276
TOTAL	23.5	1268		1252

Douglas-fir	3254	3221
Red Alder	885	867
TOTAL	4139	4088



- Legend**
- ◊ Corners
 - Cable Landing
 - Tractor Landing
 - Cable Logging
 - //// Ground-Based Logging
 - Timber Sale Boundary
 - ~~~~ Riparian Boundary
 - Recreation Trail
 - == Surfaced Road
 - xxx Blocked Road
 - vvv Abandoned Road
 - Type-F Stream
 - Type-N Stream
 - 40' Contour
 - 200' Contour
 - Sections
 - - - Property Line
 - //// Reforestation Area

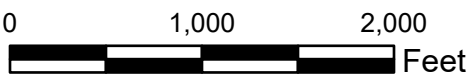
LOGGING PLAN

FOR TIMBER SALE CONTRACT # TL-341-2022-W00910-01
 HOLLYWOOD HILLS
 PORTIONS OF SECTIONS 12 & 13, T2S, R8W,
 AND PORTIONS OF SECTIONS 18 & 30 OF T2S, R7W, W.M.
 TILLAMOOK COUNTY, OREGON

Tillamook District GIS
 June 2022

This product is for informational use and may not be
 suitable for legal, engineering, or surveying purposes.

1:12,000
 1 inch = 1,000 feet



	NET ACRES		
	GROUND	CABLE	TOTAL
UNIT 1	33	80	113
UNIT 2	0	54	54
TOTAL	33	34	167



Legend

- ◆ Corners
- Cable Landing
- Cable Logging
- Timber Sale Boundary
- ▬ Riparian Boundary
- ▬▬ Recreation Trail
- ▬▬▬ Surfaced Road
- ▬▬▬ Unsurfaced Road
- ××× Blocked Road
- vvvv Abandoned Road
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LOGGING PLAN

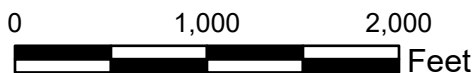
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NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	33	80	113
UNIT 2	0	54	54
TOTAL	33	34	167