



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Zig Zag Road
Sale TL-341-2026-W01156-01

District: Tillamook

Date: May 07, 2026

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$2,867,277.30	\$44,068.44	\$2,911,345.74
		Project Work:	(\$467,990.00)
		Advertised Value:	\$2,443,355.74



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District: Tillamook

Date: May 07, 2026

Timber Description

Location: Section(s) 15, 16, 17, 21, 22, 27, 28 of T1S R7W W.M.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	18	0	100
Western Hemlock / Fir	32	0	100
Alder (Red)	15	0	100

Volume by Grade	2S	3S & 4S 6"-11"	4S	Camprun	Total
Douglas - Fir	3,840	3,822	0	0	7,662
Western Hemlock / Fir	64	8	0	0	72
Alder (Red)	0	0	74	940	1,014
Total	3,904	3,830	74	940	8,748

Comments: Additional Costs – ZIG ZAG ROAD
Pond Values Used: May 2026
Region: Astoria, Forest Grove, and Tillamook
Douglas fir stumpage $\$372.47 \times 0.5 = \text{PC and SC price} = \$186.23/\text{MBF}$
Western red cedar and other cedar stumpage price = $\$1,340/\text{MBF} - \$372.47/\text{MBF} = \$967.53/\text{MBF}$
Pulp (Conifer and Hardwood) Price = $\$2.50/\text{Ton}$
FUEL COST ALLOWANCE = $\$5.00/\text{Gallon}$
HAULING COST ALLOWANCE ($\$120.00/\text{hr} \times 10 \text{ hr.} = \$1,200.00$) = $\$1,200/\text{DAY}$
BRAND AND PAINT ALLOWANCE = $\$2.00/\text{MBF}$

Other costs without profit and risk added:
TOTAL Other Costs with profit and risk to be added = None

Other Costs with Profit and Risk Added:
Move-in Machine Cleaning: $\$1,000/\text{machine} \times 2 \text{ machines} \times 1 \text{ season} = \$2,000$
Tailhold OR guybacks dozer move-in: $\$1,000/\text{machine} \times 2 \text{ machines} = \$2,000$
TOTAL Other Costs without Profit and Risk added: = $\$4000$

ODF Road Maintenance
Spot Rocking: $20\text{cy}/\text{MMBF}/\text{mile} \times 8.748 \text{ MMBF} \times \$15/\text{cy} \times 9.12 \text{ miles} / 8,748 \text{ MBF} = \$2.74/\text{MBF}$
Interim Grading: $\$1,150/\text{mile} \times 9.12 \text{ miles} \times 2 \text{ times} / 8,748 \text{ MBF} = \$2.40/\text{MBF}$
Final Maintenance Grading: $\$1,500/\text{mile} \times 9.12 \text{ miles} / 8,748 \text{ MBF} = \$1.56/\text{MBF}$
Final Maintenance Compaction: $\$900/\text{mile} \times 6.57 \text{ miles} / 8,748 \text{ MBF} = \$0.68/\text{MBF}$
Total Road Maintenance: = $\$7.38/\text{MBF}$

Slash piling and sorting (Cable Settings): $\$10/\text{ac} \times 352 \text{ ac.} = \$3,520$
Unit 4 slash pile location construction and moving: $\$50/\text{landing} \times 8 \text{ landings} = \400
Total Slash Piling Cost: = $\$3,920$

Notes:
Non-Project and Unsurfaced Road Blocking : 2 closures @\$50/Closure = $\$100$



Timber Sale Appraisal
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Logging Conditions

Combination#:	1	Douglas - Fir	55.80%
		Western Hemlock / Fir	50.00%
		Alder (Red)	54.02%
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimbing
yarding distance:	Short (400 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:	\$188.14		
machines:	Log Loader (A)		
	Forwarder		
	Harvester		
	Tower Yarder (Large)		
Combination#:	2	Douglas - Fir	26.30%
		Western Hemlock / Fir	40.00%
		Alder (Red)	30.92%
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimbing
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	9		bd. ft / load: 3800
cost / mbf:	\$250.85		
machines:	Log Loader (A)		
	Forwarder		
	Harvester		
	Tower Yarder (Large)		
Combination#:	3	Douglas - Fir	8.13%
		Western Hemlock / Fir	3.00%
		Alder (Red)	7.47%
Logging System:	Cable: Large Tower >=70		Process: Harvester Head Delimbing
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:	6		bd. ft / load: 3800
cost / mbf:	\$376.27		
machines:	Log Loader (A)		
	Forwarder		
	Harvester		
	Tower Yarder (Large)		
Combination#:	4	Douglas - Fir	9.77%
		Western Hemlock / Fir	7.00%
		Alder (Red)	7.58%
Logging System:	Shovel		Process: Harvester Head Delimbing
yarding distance:	Short (400 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	20		bd. ft / load: 3800

cost / mbf: \$131.58
machines: Forwarder
Harvester



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Logging Costs

Operating Seasons: 2.00	Profit Risk: 10%
Project Costs: \$467,990.00	Other Costs (P/R): \$4,000.00
Slash Disposal: \$3,920.00	Other Costs: \$0.00

Miles of Road

Road Maintenance: \$7.38

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	3.0	4.0
Western Hemlock / Fir	\$0.00	3.0	4.0
Alder (Red)	\$0.00	2.0	3.2



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Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$214.41	\$7.38	\$1.00	\$104.17	\$0.46	\$32.74	\$0.45	\$2.00	\$0.00	\$362.61
Western Hemlock / Fir									
\$214.91	\$7.38	\$1.00	\$104.17	\$0.46	\$32.79	\$0.45	\$2.00	\$0.00	\$363.16
Alder (Red)									
\$217.30	\$7.38	\$1.00	\$195.31	\$0.46	\$42.14	\$0.45	\$2.00	\$0.00	\$466.04

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$735.08	\$372.47	\$0.00
Western Hemlock / Fir	\$0.00	\$549.44	\$186.28	\$0.00
Alder (Red)	\$0.00	\$509.50	\$43.46	\$0.00



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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	7,662	\$372.47	\$2,853,865.14
Western Hemlock / Fir	72	\$186.28	\$13,412.16
Alder (Red)	1,014	\$43.46	\$44,068.44

Gross Timber Sale Value

Recovery: \$2,911,345.74

Prepared By: Alex Durham

Phone: 503-815-7035



PROJECT SUMMARY SHEET

Sale: Zig Zag Road

CONSTRUCTION

Point	E to F	3+95	stations =	\$11,442.36
Point	G to H	0+95	stations =	\$6,022.86
Point	I to J	1+60	stations =	\$6,360.28
Point	O to P	8+65	stations =	\$18,521.87
Point	S to T	9+00	stations =	\$21,902.71
Point	U to V	6+80	stations =	\$20,393.44
Point	W to X	3+30	stations =	\$14,705.44
Point	AA to BB	4+70	stations =	\$5,783.84
Point	EE to FF	1+65	stations =	\$12,827.72
Point	GG to HH	2+15	stations =	\$13,466.42
Point	II to JJ	16+30	stations =	\$42,973.44
SUBTOTAL CONSTRUCTION				\$174,400.38

IMPROVEMENT

Point	A to B	482+45	stations =	\$137,346.25
Point	C to D	17+30	stations =	\$20,859.77
Point	Q to R	15+60	stations =	\$8,433.71
Point	S to T	7+90	stations =	\$10,263.61
Point	Y to Z	6+80	stations =	\$19,152.84
Point	AA to BB	11+60	stations =	\$10,365.80
Point	CC to DD	3+50	stations =	\$8,832.80
Point	KK to LL	48+40	stations =	\$4,366.32
SUBTOTAL IMPROVEMENT				\$219,621.10

RECONSTRUCTION

Point	C to D	10+15	stations =	\$12,949.04
Point	K to L	9+05	stations =	\$17,869.29
Point	M to N	9+05	stations =	\$12,469.79
SUBTOTAL RECONSTRUCTION				\$43,288.12

SPECIAL PROJECTS

Project 3: Brush	21.3	miles of road	\$24,814.50
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SUBTOTAL SPECIAL PROJECTS **\$24,814.50**

MOVE IN

\$5,865.90

GRAND TOTAL

\$467,990.00

SUMMARY OF CONSTRUCTION COST

Sale: **Zig Zag Road**

Road: **A to B**

Construction -	0+00	stations	Improvement -	482+45	stations	Reconstruction -	0+00	stations
	0.00	miles		9.14	miles		0.00	miles

IMPROVEMENT: EXCAVATION -
483.00

Pullback			150.00	sta. @	\$80.00	per sta. =	\$12,000.00	
			125	cy. @	\$2.20	per c.y. =	\$275.00	
TOTAL EXCAVATION								\$12,275.00

IMPROVEMENT: ENDHAUL -

Pullback	294+55	to	294+85	47	cy. @	\$1.97	per c.y. =	\$92.59
Pullback	293+35	to	293+85	78	cy. @	\$2.00	per c.y. =	\$156.00
Spread & compact				125	cy. @	\$0.55	per c.y. =	\$68.75
TOTAL ENDHAUL								\$317.34

CULVERTS - MATERIALS & INSTALLATION

Culverts

350	LF of 18"	\$8,837.50	170	LF of 24"	\$6,502.50
		\$8,837.50			\$6,502.50

Culvert Stakes & Markers

16 markers	\$144.00
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TOTAL CULVERTS \$15,484.00

ROCK

0+00 to	136+35	2,340	cy. of	Crushed	@	\$21.01	per c.y. =	\$49,163.40
393+80 to	397+30	70	cy. of	Crushed	@	\$17.30	per c.y. =	\$1,211.00
Culvert Backfill	75+50	20	cy. of	Crushed	@	\$20.58	per c.y. =	\$411.60
Culvert Backfill	82+20	20	cy. of	Crushed	@	\$20.38	per c.y. =	\$407.60
Culvert Backfill	91+55	20	cy. of	Crushed	@	\$19.36	per c.y. =	\$387.20
Culvert Backfill	156+50	20	cy. of	Crushed	@	\$19.01	per c.y. =	\$380.20
Culvert backfill	157+70	20	cy. of	Crushed	@	\$18.98	per c.y. =	\$379.60
Culvert backfill	169+15	20	cy. of	Crushed	@	\$18.74	per c.y. =	\$374.80
Culvert backfill	243+60	20	cy. of	Crushed	@	\$17.17	per c.y. =	\$343.40
Culvert backfill	244+00	20	cy. of	Crushed	@	\$17.16	per c.y. =	\$343.20
Culvert backfill	324+80	20	cy. of	Crushed	@	\$15.45	per c.y. =	\$309.00
Culvert backfill	378+80	20	cy. of	Crushed	@	\$15.49	per c.y. =	\$309.80
Culvert backfill	384+45	20	cy. of	Crushed	@	\$15.56	per c.y. =	\$311.20
Culvert backfill	394+85	20	cy. of	Crushed	@	\$15.68	per c.y. =	\$313.60
Culvert backfill	396+25	20	cy. of	Crushed	@	\$15.90	per c.y. =	\$318.00
Culvert backfill	420+90	20	cy. of	Crushed	@	\$15.93	per c.y. =	\$318.60
Culvert Backfill	376+80	20	cy. of	Crushed	@	\$15.45	per c.y. =	\$309.00
Culvert backfill	415+95	20	cy. of	Crushed	@	\$15.49	per c.y. =	\$309.80
Energy Dissipator	As Directed	80	cy. of	Riprap	@	\$15.68	per c.y. =	\$1,254.40
Rock Ditch Filter	As Directed	15	cy. of	Jaw run	@	\$15.90	per c.y. =	\$238.50
Ramp Hardening Rock	483+80	10	cy. of	Jaw run	@	\$18.44	per c.y. =	\$184.40
Outslope berm	393+80	40	cy. of	Jaw run	@	\$15.42	per c.y. =	\$616.80
Spot rock	As Directed	1,000	cy. of	Crushed	@	\$18.95	per c.y. =	\$18,950.00
Landing Rock	483+80	170	cy. of	Jaw run	@	\$20.25	per c.y. =	\$3,442.50
Landing Rock	445+40	170	cy. of	Jaw run	@	\$19.44	per c.y. =	\$3,304.80
TOTAL ROCK								\$83,892.40

SPECIAL PROJECTS

Construct Landings	2.00	each @	\$1,000.00	each	\$2,000.00
Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00
Construct ditchouts -	3.00	@	\$60.00	each	\$180.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	482.45	stations @	\$24.40	per station	\$11,771.78
Roll subgrade w/ vibratory roller	482.45	stations @	\$19.40	per station	\$9,359.53
Remove culverts from state lands	15.00	@	\$1,461.20	total	\$1,461.20
TOTAL SPECIAL PROJECTS					\$25,377.51

GRAND TOTAL \$137,346.25

SUMMARY OF CONSTRUCTION COST

Sale: **Zig Zag Road**

Road: **C to D**

<u>Construction -</u>	<u>0+00</u>	<u>stations</u>	<u>Improvement -</u>	<u>17+30</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>10+15</u>	<u>stations</u>
	<u>0.00</u>	<u>miles</u>		<u>0.33</u>	<u>miles</u>		<u>0.19</u>	<u>miles</u>

IMPROVEMENT: EXCAVATION -

Clean Ditches, Ditchouts, Catch basins/Endhaul	17.30	sta. @	\$80.00	per sta. =	\$1,384.00	
				TOTAL EXCAVATION		\$1,384.00

RECONSTRUCTION: CLEARING AND GRUBBING -

Scattering	10.150	sta. @	\$50.00	per station =	\$507.50	
				TOTAL CLEARING AND GRUBBING		\$507.50

RECONSTRUCTION: EXCAVATION -

Road Earthwork	10.15	sta. @	\$100.00	per sta. =	\$1,015.00	
				TOTAL EXCAVATION		\$1,015.00

ROCK

0+00 to 17+30	610	cy. of	Jaw-run	@	\$20.99	per c.y. =	\$12,803.90	
17+30 to 27+45	580	cy. of	Jaw run	@	\$21.12	per c.y. =	\$12,249.60	
Junction rock 17+30	50	cy. of	Jaw run	@	\$22.47	per c.y. =	\$1,123.50	
Landing Rock 27+45	100	cy. of	Jaw run	@	\$22.70	per c.y. =	\$2,270.00	
						TOTAL ROCK		\$28,447.00

SPECIAL PROJECTS

Construct Landings	1.00	each	\$500.00	each	\$500.00	
Construct ditchouts -	3.00	@	\$60.00	each	\$180.00	
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00	
Grade and shape road -	27.45	stations @	\$24.40	per station	\$669.78	
Roll subgrade w/ vibratory roller prior to rocking -	27.45	stations @	\$19.40	per station	\$532.53	
Grass seed -	0.47	acres @	\$400.00	per acre	\$188.00	
				TOTAL SPECIAL PROJECTS		\$2,455.31

GRAND TOTAL **\$33,808.81**

SUMMARY OF CONSTRUCTION COST

Sale: **Zig Zag Road**

Road: **E to F**

<u>Construction -</u>	<u>3+95</u>	<u>stations</u>	<u>Improvement -</u>	<u>0+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	<u>0.07</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>		<u>0.00</u>	<u>miles</u>

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>		
0+00		2+45	35%	0.0		\$265	=	\$649.25
2+45		3+45	55%	2.3		\$957	=	\$957.00
TOTAL								\$1,606.25

ROCK

0+00	to	4+10	240	cy. of	Jaw-run	@	\$22.45	per c.y.=	\$5,388.00
Landing Rock		4+10	100	cy. of	Jaw run	@	\$22.55	per c.y.=	\$2,255.00
Junction Rock		0+00	30	cy. of	Jaw run	@	\$18.77	per c.y.=	\$563.10
TOTAL ROCK									\$8,206.10

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$500.00	each	\$500.00
Construct ditchouts -	1.00	@	\$60.00	each	\$60.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	3.95	stations @	\$24.40	per station	\$96.38
Roll subgrade	3.95	stations @	\$19.40	per station	\$76.63
Remove large stumps -	4.00	lump sum @	\$110.00		\$440.00
Grass seed -	0.18	acres @	\$400.00	per acre	\$72.00
TOTAL SPECIAL PROJECTS					\$1,630.01

GRAND TOTAL **\$11,442.36**

Sale: Zig Zag Road			Road: G to H		
<u>Construction -</u>	<u>0+95</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations
	0.02	miles		0.00	miles
<u>Reconstruction -</u>	<u>0+00</u>	stations			
	0.00	miles			

<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>	=	
0+00		0+95	35%			\$265		\$251.75
TOTAL								\$251.75

0+00	to	0+95	80	cy. of	Jaw-run	@	\$22.46	per c.y.=	\$1,796.80
Landing Rock		0+95	100	cy. of	Jaw run	@	\$22.48	per c.y.=	\$2,248.00
Junction Rock		0+00	30	cy. of	Jaw run	@	\$18.79	per c.y.=	\$563.70
TOTAL ROCK									\$4,608.50

Construct Landings	1.00	@	\$500.00	each	\$500.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	0.95	stations @	\$24.40	per station	\$23.18
Roll subgrade	0.95	stations @	\$19.40	per station	\$18.43
Remove large stumps -	2.00	lump sum @	\$110.00		\$220.00
Grass seed -	0.04	acres @	\$400.00	per acre	\$16.00
			TOTAL SPECIAL PROJECTS		\$1,162.61

GRAND TOTAL	\$6,022.86
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SUMMARY OF CONSTRUCTION COST

Sale:			Zig Zag Road			Road:			I to J			
<u>Construction -</u>			1+60	stations	<u>Improvement -</u>			0+00	stations	<u>Reconstruction -</u>		
			0.03	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				
	0+00		1+60	35%	2.3		\$265	=			\$424.00
									TOTAL		\$424.00

ROCK											
	0+00	to	1+60	110	cy. of	Jaw-run	@	\$22.52 per c.y.=		\$2,477.20	
	Landing		1+60	100	cy. of	Jaw run	@	\$22.56 per c.y.=		\$2,256.00	
									TOTAL ROCK		\$4,733.20

SPECIAL PROJECTS											
	Construct Landings				1.00	@	\$500.00	each		\$500.00	
	Endhaul stumps from landing -				1.00	hours @	\$385.00	per hour		\$385.00	
	Grade and shape road -				1.60	stations @	\$24.40	per station		\$39.04	
	Roll subgrade				1.60	stations @	\$19.40	per station		\$31.04	
	Remove large stumps -				2.00	lump sum @	\$110.00			\$220.00	
	Grass seed -				0.07	acres @	\$400.00	per acre		\$28.00	
									TOTAL SPECIAL PROJECTS		\$1,203.08
									GRAND TOTAL		\$6,360.28

SUMMARY OF CONSTRUCTION COST

Sale:				Zig Zag Road				Road:				K to L			
Construction -		0+00 stations		Improvement -		0+00 stations		Reconstruction -		9+05 stations					
		0.00 miles				0.00 miles				0.17 miles					
RECONSTRUCTION: CLEARING AND GRUBBING -															
Scattering				9.000		stations @		\$50.00		per station =		\$450.00			
												TOTAL CLEARING AND GRUBBING		\$450.00	
RECONSTRUCTION: EXCAVATION -															
Road Earthwork				9.00		sta. @		\$175.00		per sta. =		\$1,575.00			
												TOTAL EXCAVATION		\$1,575.00	
ROCK															
0+00 to		9+05		360		cy. of		Jaw run		@		\$19.51		per c.y.=	
Junction Rock		0+00		30		cy. of		Jaw run		@		\$19.34		per c.y.=	
Landing Rock		9+05		330		cy. of		Jaw run		@		\$19.67		per c.y.=	
												TOTAL ROCK		\$14,094.90	
SPECIAL PROJECTS															
Construct Landings				1.00		each @		\$800.00		each		\$800.00			
Endhaul stumps from landing -				1.00		hours @		\$385.00		per hour		\$385.00			
Grade and shape road -				9.05		stations @		\$24.40		per station		\$220.82			
Roll subgrade w/ vibratory roller prior to rocking -				9.05		stations @		\$19.40		per station		\$175.57			
Grass seed -				0.42		acres @		\$400.00		per acre		\$168.00			
												TOTAL SPECIAL PROJECTS		\$1,749.39	
												GRAND TOTAL		\$17,869.29	

SUMMARY OF CONSTRUCTION COST

Sale:				Zig Zag Road				Road:				M to N			
<u>Construction -</u>		<u>0+00</u> stations		<u>Improvement -</u>		<u>0+00</u> stations		<u>Reconstruction -</u>		<u>9+05</u> stations					
		0.00 miles				0.00 miles				0.17 miles					
RECONSTRUCTION: CLEARING AND GRUBBING -															
Scattering				9.000		sta. @		\$50.00 per acre =		\$450.00					
										TOTAL CLEARING AND GRUBBING		\$450.00			
RECONSTRUCTION: EXCAVATION -															
Road Earthwork				9.00		sta. @		\$175.00 per sta. =		\$1,575.00					
										TOTAL EXCAVATION		\$1,575.00			
ROCK															
0+00 to		9+05		360 cy. of		Jaw run		@		\$19.08 per c.y.=		\$6,868.80			
Junction rock		0+00		30 cy. of		Jaw run		@		\$18.92 per c.y.=		\$567.60			
Landing Rock		9+50		100 cy. of		Jaw run		@		\$19.24 per c.y.=		\$1,924.00			
										TOTAL ROCK		\$9,360.40			
SPECIAL PROJECTS															
Construct Landings				1.00		each @		\$520.00		each		\$520.00			
Grade and shape road -				9.05		stations @		\$24.40		per station		\$220.82			
Roll subgrade w/ vibratory roller prior to rocking -				9.05		stations @		\$19.40		per station		\$175.57			
Grass seed -				0.42		acres @		\$400.00		per acre		\$168.00			
										TOTAL SPECIAL PROJECTS		\$1,084.39			
												GRAND TOTAL		\$12,469.79	

Sale:		<u>Zig Zag Road</u>		Road:		<u>O to P</u>					
<u>Construction -</u>		8+65 0.16	stations miles	<u>Improvement -</u>		0+00 0.00	stations miles	<u>Reconstruction -</u>		0+00 0.00	stations 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>				
0+00			8+65	49%			\$380	=			
										TOTAL	\$3,287.00
CULVERTS - MATERIALS & INSTALLATION											
		<u>Culverts</u>		30	LF of 18"	\$757.50		0	LF of 24"	\$0.00	
						\$757.50				\$0.00	
		<u>Culvert Stakes & Markers</u>		1	markers	\$9.00					
										TOTAL CULVERTS	\$766.50
ROCK											
0+00 to		8+65	520	cy. of	Jaw run	@	\$19.10 per c.y.=	\$9,932.00			
Landing Rock		8+65	100	cy. of	Jaw run	@	\$19.25 per c.y.=	\$1,925.00			
Culvert backfill		3+15	20	cy. of	Jaw run	@	\$18.53 per c.y.=	\$370.60			
Energy Dissipator		3+15	5	cy. of	Rip Rap	@	\$15.38 per c.y.=	\$76.90			
										TOTAL ROCK	\$12,304.50
SPECIAL PROJECTS											
Construct Landings			1.00	each	@	\$520.00	each	\$520.00			
Endhaul stumps from landing -			1.00	hours	@	\$385.00	per hour	\$385.00			
Grade and shape road -			8.65	stations	@	\$24.40	per station	\$211.06			
Roll subgrade w/ vibratory roller prior to rocking -			8.65	stations	@	\$19.40	per station	\$167.81			
Create ditchout			1.00	each	@	\$60.00	each	\$60.00			
Remove large stumps -			6.00	lump sum	@	\$110.00		\$660.00			
Grass seed -			0.40	acres	@	\$400.00	per acre	\$160.00			
										TOTAL SPECIAL PROJECTS	\$2,163.87
										GRAND TOTAL	\$18,521.87

SUMMARY OF CONSTRUCTION COST

Sale:		Zig Zag Road				Road:		Q to R			
Construction -		0+00	stations	Improvement -		15+60	stations	Reconstruction -		0+00	stations
		0.00	miles			0.30	miles			0.00	miles
IMPROVEMENT: CLEARING AND GRUBBING -											
Side cast				0.007	acres	@	\$955.00	per acre =	\$6.69		
										TOTAL CLEARING AND GRUBBING	\$6.69
IMPROVEMENT: EXCAVATION -											
Pullback				62	cy.	@	\$2.20	per c.y. =	\$136.40		
										TOTAL EXCAVATION	\$136.40
IMPROVEMENT: ENDHAUL -											
Pullback		4+20	to	4+60	62	cy.	@	\$1.27	per c.y. =	\$78.74	
Spread & compact					62	cy.	@	\$0.55	per c.y. =	\$34.10	
										TOTAL ENDHAUL	\$112.84
ROCK											
0+00 to		15+60	360	cy. of	Crushed	@	\$18.30	per c.y. =	\$6,588.00		
Junction Rock		0+00	50	cy. of	Crushed	@	\$18.13	per c.y. =	\$906.50		
										TOTAL ROCK	\$7,494.50
SPECIAL PROJECTS											
Grade and shape road -				15.60	stations	@	\$24.40	per station	\$380.64		
Roll subgrade w/ vibratory roller prior to rocking -				15.60	stations	@	\$19.40	per station	\$302.64		
										TOTAL SPECIAL PROJECTS	\$683.28
										GRAND TOTAL	\$8,433.71

SUMMARY OF CONSTRUCTION COST

Sale:

Zig Zag Road

Road:

S to T

<u>Construction -</u>	<u>9+00</u>	<u>stations</u>	<u>Improvement -</u>	<u>7+90</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	0.17	miles		0.15	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>		
7+90		14+90	49%			\$380	=	\$2,660.00
14+90		16+90	70%	0.25		\$4,000	=	\$8,000.00
TOTAL								\$10,660.00

IMPROVEMENT: EXCAVATION -

Road Earthwork	7.90	sta. @	\$50.00	per sta. =	\$395.00	TOTAL EXCAVATION	\$395.00
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ROCK

0+00 to	7+90	150	cy. of	Crushed	@	\$19.96	per c.y.=	\$2,994.00
7+90 to	16+90	550	cy. of	Jaw run	@	\$20.26	per c.y.=	\$11,143.00
Landing Rock	16+90	170	cy. of	Jaw run	@	\$20.42	per c.y.=	\$3,471.40
Turnaround	7+90	20	cy. of	Jaw run	@	\$19.82	per c.y.=	\$396.40
Junction Rock	7+90	30	cy. of	Jaw run	@	\$18.41	per c.y.=	\$552.30
TOTAL ROCK								\$18,557.10

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$1,200.00	each	\$1,200.00
Construct waste areas -	1.00	hours @	\$220.00	per hour	\$220.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Grade and shape road -	16.90	stations @	\$24.40	per station	\$412.36
Roll subgrade w/ vibratory roller prior to rocking -	16.90	stations @	\$19.40	per station	\$327.86
Remove large stumps -	1.00	lump sum @	\$110.00		\$110.00
Grass seed -	0.41	acres @	\$400.00	per acre	\$164.00
TOTAL SPECIAL PROJECTS					\$2,554.22

GRAND TOTAL **\$32,166.32**

SUMMARY OF CONSTRUCTION COST

Sale:

Zig Zag Road

Road:

U to V

Construction -	6+80	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.13	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>		
0+00		2+00	65%	0.4		\$1,500	=	\$3,000.00
2+00		6+80	49%			\$380	=	\$1,824.00
TOTAL								\$4,824.00

ROCK

0+00	to	6+80	410	cy. of	Jaw run	@	\$20.03	per c.y.=	\$8,212.30
Landing Rock		6+80	220	cy. of	Jaw run	@	\$20.15	per c.y.=	\$4,433.00
Junction Rock		0+00	30	cy. of	Jaw run	@	\$19.91	per c.y.=	\$597.30
TOTAL ROCK									\$13,242.60

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$850.00	each	\$850.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	6.80	stations @	\$24.40	per station	\$165.92
Roll subgrade w/ vibratory roller prior to rocking -	6.80	stations @	\$19.40	per station	\$131.92
Remove large stumps -	5.00	lump sum @	\$110.00		\$550.00
Grass seed -	0.31	acres @	\$400.00	per acre	\$124.00
			TOTAL SPECIAL PROJECTS		\$2,326.84

GRAND TOTAL

\$20,393.44

SUMMARY OF CONSTRUCTION COST

Sale:

Zig Zag Road

Road:

W to X

<u>Construction -</u>	<u>3+30</u>	stations	<u>Improvement -</u>	<u>0+00</u>	stations	<u>Reconstruction -</u>	<u>0+00</u>	stations
	<u>0.06</u>	miles		<u>0.00</u>	miles		<u>0.00</u>	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		1+50	55%	0.3		\$957	=		\$1,435.50
1+50		3+30	35%			\$265	=		\$477.00
TOTAL									\$1,912.50

ROCK

0+00	to	3+30	200	cy. of	Jaw run	@	\$20.42	per c.y.=	\$4,084.00
Landing Rock		3+30	330	cy. of	Jaw run	@	\$20.48	per c.y.=	\$6,758.40
Junction Rock		0+00	30	cy. of	Jaw run	@	\$18.70	per c.y.=	\$561.00
TOTAL ROCK									\$11,403.40

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$800.00	each	\$800.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	3.30	stations @	\$24.40	per station	\$80.52
Roll subgrade w/ vibratory roller prior to rocking -	3.30	stations @	\$19.40	per station	\$64.02
Grass seed -	0.15	acres @	\$400.00	per acre	\$60.00
			TOTAL SPECIAL PROJECTS		\$1,389.54

GRAND TOTAL

\$14,705.44

SUMMARY OF CONSTRUCTION COST

Sale:		<u>Zig Zag Road</u>			Road:		<u>Y to Z</u>		
<u>Construction -</u>		<u>0+00</u>	stations	<u>Improvement -</u>		<u>6+80</u>	stations	<u>Reconstruction -</u>	
		0.00	miles			0.13	miles	0.00	
								miles	
IMPROVEMENT: EXCAVATION -									
Road Earthwork				6.80	sta. @	\$100.00	per sta. =	\$680.00	
Widening				20	cy. @	\$2.20	per c.y.=	\$44.00	
								TOTAL EXCAVATION	\$724.00
ROCK									
0+00 to		6+80	410	cy. of	Jaw run	@	\$21.39	per c.y.=	\$8,769.90
Landing Rock		6+80	330	cy. of	Jaw run	@	\$21.51	per c.y.=	\$7,098.30
Junction Rock		0+00	30	cy. of	Jaw run	@	\$19.26	per c.y.=	\$577.80
								TOTAL ROCK	\$16,446.00
SPECIAL PROJECTS									
Landing				1.00	each @	\$1,300.00	each	\$1,300.00	
Endhaul stumps from landing -				1.00	hours @	\$385.00	per hour	\$385.00	
Grade and shape road -				6.80	stations @	\$24.40	per station	\$165.92	
Roll subgrade w/ vibratory roller prior to rocking -				6.80	stations @	\$19.40	per station	\$131.92	
								TOTAL SPECIAL PROJECTS	\$1,982.84
								GRAND TOTAL	\$19,152.84

SUMMARY OF CONSTRUCTION COST

Sale: **Zig Zag Road**

Road: **AA to BB**

Construction -	4+70	stations	Improvement -	11+60	stations	Reconstruction -	0+00	stations
	0.09	miles		0.22	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	
11+60		16+30	40%			\$337	=			\$1,583.90
										TOTAL
										\$1,583.90

ROCK

11+60 to	16+30	290	cy. of	Jaw run	@	\$21.41	per c.y.=	\$6,208.90	
Landing Rock	16+30	170	cy. of	Jaw run	@	\$21.44	per c.y.=	\$3,644.80	
Spot Rock	0+00 to 11+60	100	cy. of	Crushed	@	\$20.49	per c.y.=	\$2,049.00	
Junction Rock	11+60	30	cy. of	Jaw run	@	\$20.37	per c.y.=	\$611.10	
									TOTAL ROCK
									\$12,513.80

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$800.00	each	\$800.00	
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00	
Grade and shape road -	16.30	stations @	\$24.40	per station	\$397.72	
Roll subgrade w/ vibratory roller prior to rocking -	16.30	stations @	\$19.40	per station	\$316.22	
Waterbars	0.50	hours @	\$130.00	per hour	\$65.00	
Grass seed -	0.22	acres @	\$400.00	per acre	\$88.00	
					TOTAL SPECIAL PROJECTS	\$2,051.94

GRAND TOTAL **\$16,149.64**

SUMMARY OF CONSTRUCTION COST

Sale:		Zig Zag Road				Road:		CC to DD			
<u>Construction -</u>		<u>0+00</u>	stations	<u>Improvement -</u>		<u>3+50</u>	stations	<u>Reconstruction -</u>		<u>0+00</u>	stations
		0.00	miles			0.07	miles			0.00	miles
IMPROVEMENT: EXCAVATION -											
Road Earthwork				3.50	sta. @	\$50.00	per sta. =	\$175.00	TOTAL EXCAVATION		
										\$175.00	
ROCK											
0+00	to	3+50	140	cy. of	Jaw run	@	\$23.46	per c.y.=	\$3,284.40		
Landing Rock		3+50	170	cy. of	Jaw run	@	\$23.52	per c.y.=	\$3,998.40		
Junction rock		0+00 to 3+50	30	cy. of	Jaw run	@	\$23.39	per c.y.=	\$701.70		
								TOTAL ROCK		\$7,984.50	
SPECIAL PROJECTS											
Construct Landings				1.00	each @	\$520.00	each	\$520.00			
Grade and shape road -				3.50	stations @	\$24.40	per station	\$85.40			
Roll subgrade w/ vibratory roller prior to rocking -				3.50	stations @	\$19.40	per station	\$67.90			
								TOTAL SPECIAL PROJECTS		\$673.30	
								GRAND TOTAL		\$8,832.80	

SUMMARY OF CONSTRUCTION COST

Sale:

Zig Zag Road

Road:

EE to FF

Construction -	1+65	stations	Improvement -	0+00	stations	Reconstruction -	0+00	stations
	0.03	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		1+65	40%			\$337			\$556.05
TOTAL									\$556.05

ROCK

0+00	to	1+65	110	cy. of	Jaw run	@	\$20.62	per c.y.=	\$2,268.20
Landing Rock		1+65	330	cy. of	Jaw run	@	\$23.60	per c.y.=	\$7,788.00
Junction Rock		0+00	30	cy. of	Jaw run	@	\$23.54	per c.y.=	\$706.20
TOTAL ROCK									\$10,762.40

SPECIAL PROJECTS

Construct Landings	1.00	each @	\$800.00	each	\$800.00
Endhaul stumps from landing -	1.00	hours @	\$385.00	per hour	\$385.00
Grade and shape road -	1.65	stations @	\$24.40	per station	\$40.26
Roll subgrade w/ vibratory roller prior to rocking -	1.65	stations @	\$19.40	per station	\$32.01
Remove large stumps -	2.00	lump sum @	\$110.00		\$220.00
Grass seed -	0.08	acres @	\$400.00	per acre	\$32.00
			TOTAL SPECIAL PROJECTS		\$1,509.27

GRAND TOTAL

\$12,827.72

SUMMARY OF CONSTRUCTION COST

Sale:			Zig Zag Road			Road:			GG to HH		
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				
	0+00		2+15	30%			\$265	=			\$569.75
									TOTAL		\$569.75

ROCK											
0+00	to		2+15	140	cy. of	Jaw run	@	\$23.83	per c.y.=	\$3,336.20	
Landing Rock			1+65	330	cy. of	Jaw run	@	\$23.86	per c.y.=	\$7,873.80	
Junction Rock			0+00	30	cy. of	Jaw run	@	\$20.75	per c.y.=	\$622.50	
									TOTAL ROCK		\$11,832.50

SPECIAL PROJECTS											
Construct Landings				1.00	each @	\$820.00		each	\$820.00		
Grade and shape road -				2.15	stations @	\$24.40		per station	\$52.46		
Roll subgrade w/ vibratory roller prior to rocking -				2.15	stations @	\$19.40		per station	\$41.71		
Remove large stumps -				1.00	lump sum @	\$110.00			\$110.00		
Grass seed -				0.10	acres @	\$400.00		per acre	\$40.00		
									TOTAL SPECIAL PROJECTS		\$1,064.17
									GRAND TOTAL		\$13,466.42

SUMMARY OF CONSTRUCTION COST

Sale:

Zig Zag Road

Road:

II to JJ

<u>Construction -</u>	<u>16+30</u>	<u>stations</u>	<u>Improvement -</u>	<u>0+00</u>	<u>stations</u>	<u>Reconstruction -</u>	<u>0+00</u>	<u>stations</u>
	0.31	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>		
0+00		3+10	40%			\$337	=	\$1,044.70
3+10		5+40	55%	1.25		\$957	=	\$2,201.10
5+40		7+00	49%			\$380	=	\$608.00
7+00		8+90	55%	1.25		\$957	=	\$1,818.30
8+90		16+30	40%			\$337	=	\$2,493.80
TOTAL								\$8,165.90

CULVERTS - MATERIALS & INSTALLATION

<u>Culverts</u>	80	LF of 18"	\$2,020.00	0	LF of 24"	\$0.00
			\$2,020.00			\$0.00
<u>Culvert Stakes & Markers</u>	2 markers		\$18.00			
TOTAL CULVERTS						\$2,038.00

ROCK

0+00 to	16+30	950	cy. of	Jaw run	@	\$24.08 per c.y.=	\$22,876.00
Landing Rock	12+60	100	cy. of	Jaw run	@	\$24.24 per c.y.=	\$2,424.00
Landing Rock	16+30	100	cy. of	Jaw run	@	\$24.37 per c.y.=	\$2,437.00
Truck Turnaround	11+60	30	cy. of	Jaw run	@	\$20.99 per c.y.=	\$629.70
Culvert Backfill	0+00	20	cy. of	Crushed	@	\$18.25 per c.y.=	\$365.00
Culvert backfill	5+30	20	cy. of	Crushed	@	\$18.36 per c.y.=	\$367.20
Junction Rock	0+00	30	cy. of	Jaw run	@	\$20.75 per c.y.=	\$622.50
Energy Dissipator	5CY Each	10	cy. of	Rip Rap	@	\$18.42 per c.y.=	\$184.20
TOTAL ROCK							\$29,905.60

SPECIAL PROJECTS

Construct Landings	2.00	each @	\$600.00	each	\$1,200.00
Construct ditchouts -	2.00	@	\$60.00	each	\$120.00
Grade and shape road -	16.30	stations @	\$24.40	per station	\$397.72
Construct Truck turnaround	1.00	each @	\$90.00	each	\$90.00
Roll subgrade w/ vibratory roller prior to rocking -	16.30	stations @	\$19.40	per station	\$316.22
Remove large stumps -	4.00	lump sum @	\$110.00		\$440.00
Grass seed -	0.75	acres @	\$400.00	per acre	\$300.00
TOTAL SPECIAL PROJECTS					\$2,863.94

GRAND TOTAL **\$42,973.44**

SUMMARY OF CONSTRUCTION COST

Sale:			<u>Zig Zag Road</u>			Road:			<u>KK to LL</u>		
<u>Construction -</u>			<u>0+00</u> stations			<u>Improvement -</u>			<u>Reconstruction -</u>		
			<u>0.00</u> miles						<u>0+00</u> stations		
									<u>0.00</u> miles		
ROCK											
Spot Rock			As Directed			130 cy. of			Crushed @		
									\$17.28 per c.y.=		
									\$2,246.40		
									TOTAL ROCK		
									\$2,246.40		
SPECIAL PROJECTS											
Grade and shape road -			48.40 stations @			\$24.40 per station			\$1,180.96		
Roll subgrade w/ vibratory roller prior to rocking -			48.40 stations @			\$19.40 per station			\$938.96		
									TOTAL SPECIAL PROJECTS		
									\$2,119.92		
									GRAND TOTAL		
									\$4,366.32		

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Clear Creek Pit	Location:	Sec. 15 , T1S, R7W, W.M.
Sale:	Zig Zag Road	Road:	14810 c.y.
Swell:	1.40	Stockpile:	c.y.
Shrinkage	1.16	Total Truck Loads:	14810 c.y.
Drill Pct.:	100%	In Place Total:	10579 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. \$11,550.00

Drill & Shoot:	\$3.96 /cu.yd.	x	10579 cu.yds.	=	\$41,892.84
Load Crusher:	\$1.32 /cu.yd.	x	14810 cu.yds.	=	\$19,549.20
Sort Rip Rap	\$1.32		95 cu. yds.		\$271.20
Crushed 1 1/2	\$5.72		4410 cu. yds.		\$21,242.00
Crush jaw run	\$4.00 /cu.yd.	x	10305 cu.yds.	=	\$41,220.00
Load Dump Truck:	\$1.32 /cu.yd.	x	14810 cu.yds.	=	\$19,549.20

Subtotal \$155,274.44

Move In/Set-up Jaw and Crusher	1	@	\$7,908.00	=	\$7,908.00
Move In and set up Drill and Compressor	1	@	\$886.43	=	\$886.43
Move in Roller and Compactor	1	@	\$582.50	=	\$582.50
Move in Grader	1	@	\$922.50	=	\$922.50
Move in Loader	1	@	\$868.93	=	\$868.93
Move in Excavator	2	@	\$983.93	=	\$1,967.86
Move in Trucks	4	@	\$239.76	=	\$959.04
				Subtotal	\$14,095.26

TOTAL PRODUCTION COSTS \$169,369.70

Base Cost= \$11.44 Per Cu.Yd.

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 0 13635 (Crushed)	5.87	3.70	11.44	21.01	2340	\$49,163.40
A to B 39380 39730 (Crushed)	2.16	3.70	11.44	17.30	70	\$1,211.00
A to B Culvert Backfill (Crushed)	7.94	1.20	11.44	20.58	20	\$411.60
A to B Culvert Backfill (Crushed)	7.74	1.20	11.44	20.38	20	\$407.60
A to B Culvert Backfill (Crushed)	6.72	1.20	11.44	19.36	20	\$387.20
A to B Culvert Backfill (Crushed)	6.37	1.20	11.44	19.01	20	\$380.20
A to B Culvert backfill (Crushed)	6.34	1.20	11.44	18.98	20	\$379.60
A to B Culvert backfill (Crushed)	6.10	1.20	11.44	18.74	20	\$374.80
A to B Culvert backfill (Crushed)	4.53	1.20	11.44	17.17	20	\$343.40
A to B Culvert backfill (Crushed)	4.52	1.20	11.44	17.16	20	\$343.20
A to B Culvert backfill (Crushed)	2.81	1.20	11.44	15.45	20	\$309.00
A to B Culvert backfill (Crushed)	2.85	1.20	11.44	15.49	20	\$309.80
A to B Culvert backfill (Crushed)	2.92	1.20	11.44	15.56	20	\$311.20
A to B Culvert backfill (Crushed)	3.04	1.20	11.44	15.68	20	\$313.60
A to B Culvert backfill (Crushed)	3.26	1.20	11.44	15.90	20	\$318.00
A to B Culvert backfill (Crushed)	3.29	1.20	11.44	15.93	20	\$318.60
A to B Culvert Backfill (Crushed)	2.81	1.20	11.44	15.45	20	\$309.00
A to B Culvert backfill (Crushed)	2.85	1.20	11.44	15.49	20	\$309.80
A to B Energy Dissipator (Riprap)	3.04	1.20	11.44	15.68	80	\$1,254.40
A to B Rock Ditch Filter (Jaw run)	3.26	1.20	11.44	15.90	15	\$238.50
A to B Ramp Hardening Rock (Jaw run)	3.30	3.70	11.44	18.44	10	\$184.40
A to B Outslope berm (Jaw run)	3.08	0.90	11.44	15.42	40	\$616.80
A to B Spot rock (Crushed)	3.81	3.70	11.44	18.95	1000	\$18,950.00
A to B Landing Rock (Jaw run)	5.11	3.70	11.44	20.25	170	\$3,442.50
A to B Landing Rock (Jaw run)	4.30	3.70	11.44	19.44	170	\$3,304.80
C to D 0 1730 (Jaw-run)	5.85	3.70	11.44	20.99	610	\$12,803.90
C to D 1730 2745 (Jaw run)	5.98	3.70	11.44	21.12	580	\$12,249.60
C to D Junction rock (Jaw run)	7.33	3.70	11.44	22.47	50	\$1,123.50
C to D Landing Rock (Jaw run)	7.56	3.70	11.44	22.70	100	\$2,270.00
E to F 0 410 (Jaw-run)	7.31	3.70	11.44	22.45	240	\$5,388.00
E to F Landing Rock (Jaw run)	7.41	3.70	11.44	22.55	100	\$2,255.00
E to F Junction Rock (Jaw run)	3.63	3.70	11.44	18.77	30	\$563.10
G to H 0 95 (Jaw-run)	7.32	3.70	11.44	22.46	80	\$1,796.80
G to H Landing Rock (Jaw run)	7.34	3.70	11.44	22.48	100	\$2,248.00
G to H Junction Rock (Jaw run)	3.65	3.70	11.44	18.79	30	\$563.70
I to J 0 160 (Jaw-run)	7.38	3.70	11.44	22.52	110	\$2,477.20
I to J Landing Rock (Jaw run)	7.42	3.70	11.44	22.56	100	\$2,256.00
K to L 0 905 (Jaw run)	4.37	3.70	11.44	19.51	360	\$7,023.60
K to L Junction Rock (Jaw run)	4.20	3.70	11.44	19.34	30	\$580.20

K to L Landing Rock (Jaw run)	4.53	3.70	11.44	19.67	330	\$6,491.10
M to N 0 905 (Jaw run)	3.94	3.70	11.44	19.08	360	\$6,868.80
M to N Junction rock (Jaw run)	3.78	3.70	11.44	18.92	30	\$567.60
M to N Landing Rock (Jaw run)	4.10	3.70	11.44	19.24	100	\$1,924.00
O to P 0 865 (Jaw run)	3.96	3.70	11.44	19.10	520	\$9,932.00
O to P Landing Rock (Jaw run)	4.11	3.70	11.44	19.25	100	\$1,925.00
O to P Culvert backfill (Jaw run)	3.39	3.70	11.44	18.53	20	\$370.60
O to P Energy Dissipator (Rip Rap)	2.74	1.20	11.44	15.38	5	\$76.90
Q to R 0 1560 (Crushed)	3.16	3.70	11.44	18.30	360	\$6,588.00
Q to R Junction Rock (Crushed)	2.99	3.70	11.44	18.13	50	\$906.50
S to T 0 790 (Crushed)	4.82	3.70	11.44	19.96	150	\$2,994.00
S to T 790 1690 (Jaw run)	5.12	3.70	11.44	20.26	550	\$11,143.00
S to T Landing Rock (Jaw run)	5.28	3.70	11.44	20.42	170	\$3,471.40
S to T Turnaround (Jaw run)	4.68	3.70	11.44	19.82	20	\$396.40
S to T Junction Rock (Jaw run)	3.27	3.70	11.44	18.41	30	\$552.30
U to V 0 680 (Jaw run)	4.89	3.70	11.44	20.03	410	\$8,212.30
U to V Landing Rock (Jaw run)	5.01	3.70	11.44	20.15	220	\$4,433.00
U to V Junction Rock (Jaw run)	4.77	3.70	11.44	19.91	30	\$597.30
W to X 0 330 (Jaw run)	5.28	3.70	11.44	20.42	200	\$4,084.00
W to X Landing Rock (Jaw run)	5.34	3.70	11.44	20.48	330	\$6,758.40
W to X Junction Rock (Jaw run)	3.56	3.70	11.44	18.70	30	\$561.00
Y to Z 0 680 (Jaw run)	6.25	3.70	11.44	21.39	410	\$8,769.90
Y to Z Landing Rock (Jaw run)	6.37	3.70	11.44	21.51	330	\$7,098.30
Y to Z Junction Rock (Jaw run)	4.12	3.70	11.44	19.26	30	\$577.80
AA to BB 1160 1630 (Jaw run)	6.27	3.70	11.44	21.41	290	\$6,208.90
AA to BB Landing Rock (Jaw run)	6.30	3.70	11.44	21.44	170	\$3,644.80
AA to BB Spot Rock (Crushed)	5.35	3.70	11.44	20.49	100	\$2,049.00
AA to BB Junction Rock (Jaw run)	5.23	3.70	11.44	20.37	30	\$611.10
CC to DD 0 350 (Jaw run)	8.32	3.70	11.44	23.46	140	\$3,284.40
CC to DD Landing Rock (Jaw run)	8.38	3.70	11.44	23.52	170	\$3,998.40
CC to DD Junction rock (Jaw run)	8.25	3.70	11.44	23.39	30	\$701.70
EE to FF 0 165 (Jaw run)	5.48	3.70	11.44	20.62	110	\$2,268.20
EE to FF Landing Rock (Jaw run)	8.46	3.70	11.44	23.60	330	\$7,788.00
EE to FF Junction Rock (Jaw run)	8.40	3.70	11.44	23.54	30	\$706.20
GG to HH 0 215 (Jaw run)	8.69	3.70	11.44	23.83	140	\$3,336.20
GG to HH Landing Rock (Jaw run)	8.72	3.70	11.44	23.86	330	\$7,873.80
GG to HH Junction Rock (Jaw run)	5.61	3.70	11.44	20.75	30	\$622.50
II to JJ 0 1630 (Jaw run)	8.94	3.70	11.44	24.08	950	\$22,876.00
II to JJ Landing Rock 1260 (Jaw run)	9.10	3.70	11.44	24.24	100	\$2,424.00
II to JJ Landing Rock 1630 (Jaw run)	9.23	3.70	11.44	24.37	100	\$2,437.00
II to JJ Truck Turnaround 11+60 (Jaw r	5.85	3.70	11.44	20.99	30	\$629.70
II to JJ Culvert Backfill 0 (Crushed)	5.61	1.20	11.44	18.25	20	\$365.00
II to JJ Culvert backfill 530 (Crushed)	5.72	1.20	11.44	18.36	20	\$367.20
II to JJ Junction Rock 0 (Jaw run)	5.61	3.70	11.44	20.75	30	\$622.50
II to JJ Energy Dissipator 5CY Each (Rip	5.78	1.20	11.44	18.42	10	\$184.20
KK to LL Spot Rock As Directed (Crushec	2.14	3.70	11.44	17.28	130	\$2,246.40
Total C.Y.				14810	Sub Total	\$308,035.80

TOTAL ROCKING COSTS	\$308,035.80
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Move-In Calculations for Project Work not Involving Rocking/Pit Work

Sale: **Zig Zag Road**

LOWBOY HAUL (Round Trip)		
DIST. (mi)	ROADWAY	AVE SPEED (mph)
20.0	Pavement	30
8.0	Main Lines	7
5.0	Steep Grades	2

								Within	
No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move (\$/mile)	Begin Mileage	End Mileage	Total Miles	Area Cost	Total Cost
1	Brush Cutter	\$717.50		\$4.00	0.00	21.00	21	\$84.00	\$801.50
1	Excavators (Large)	\$983.93	1	\$44.80	0.00	8.00	12	\$537.60	\$1,521.53
1	Tractor (D8)	\$1,023.93	2	\$15.10	0.00	4.00	12	\$181.20	\$1,205.13
	Dump Truck (10 cy +)	\$1.02		\$2.85	0.00	8.00	12	\$0.00	\$1.02
2	Dump Truck (Off Hiway)	\$1,910.36	1	\$4.75	0.00	0.00	12	\$114.00	\$2,024.36
1	Water Truck (2500 Gal)	\$277.62		\$2.85	0.00	4.00	12	\$34.20	\$312.36
					TOTAL MOVE-IN COSTS:				\$5,865.90



"STEWARDSHIP IN FORESTRY"

Zig Zag Road

Volume Summary

Unit 1-Modified Clearcut				
95 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	25.49	2422	1%	2398
Hemlock		0	1%	0
Spruce		0	1%	0
Maple		0	1%	0
Alder	1.56	148	2%	145
TOTAL	27.05	2570.0		2543

Unit 2-Modified Clearcut				
81 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	23.40	1895	1%	1876
Hemlock	0.90	73	1%	72
Spruce		0	1%	0
Maple		0	1%	0
Alder	4.12	334	2%	327
TOTAL	28.42	2302		2275

Unit 3- Modified Clearcut				
91 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	23.45	2134	1%	2113
Hemlock		0	1%	0
Spruce		0	1%	0
Maple		0	1%	0
Alder	2.55	232	2%	227
TOTAL	26.00	2366		2340



"STEWARDSHIP IN FORESTRY"

Zig Zag Road

Volume Summary

Areas 4-Harvest Type				
85 acres				
SPECIES	Cruised Net	Cruised Net	Hidden	Net Sale
	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	15.2	1288	1%	1275
Hemlock		0	1%	0
Spruce		0	1%	0
Maple		0	1%	0
Alder	3.8	321	2%	315
TOTAL	18.9	1609		1590



"STEWARDSHIP IN FORESTRY"

Zig Zag Road

Volume Summary

TOTAL SALE VOLUME			352	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)		
Douglas-fir	7739	7662		
Hemlock	73	72		
Spruce	0	0		
Maple	0	0		
Red Alder	1035	1014		
TOTAL	8847	8748		



OREGON DEPARTMENT OF FORESTRY CRUISE REPORT Zig Zag Road

Type of Sale

Regeneration harvest, Recovery

Legal Description

Section(s) 15, 16, 17, 21, 22, 27, 28 of T1S R7W W.M.

Sale Acreage

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

	<u>ACRES</u>	
	<u>Gross</u>	<u>Net</u>
Unit 1 (Clearcut)	111	95
Unit 2 (Clearcut)	102	81
Unit 3 (Clearcut)	118	91
Unit 4 (Clearcut)	112	85
Total	443	352

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.

Cruising Procedures

A. Cruise Method

The timber sale was cruised using variable plot sampling. 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	33.61	300' x 300'
2	40.00	300' x 300'
3	33.61	250' x 250'
4	27.78	300' x 280'

C. Grading System

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

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.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	95	39	7.8	49.0
2	81	34	10.7	62.4
3	91	58	5.8	43.9
4	85	35	11.1	65.7
Project Total	352	166	4.7	60.6

Hidden Defect and Breakage

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

Timber Description

All units were planted approximately in 1966.

Unit 1 is clearcut. The Unit is a Douglas-fir dominated stand with a small red alder component. Approximately 67% of the Unit were thinned in 2000 as part of the Ziggy Bob Timber Sale.

Unit 2 is clearcut. The Unit is a Douglas-fir dominated stand with a small component of red alder. There were also several western hemlocks observed in the cruise. Approximately 7% of the Unit was thinned in 2000 as part of the Ziggy Bob Timber Sale.

Unit 3 is clearcut. The Unit is a Douglas-fir dominated stand with a small red alder component. There were also several bigleaf maple and western hemlock observed in the cruise. Less than 1% of the unit was clearcut in 2014 as part of the Zig Zag Alder Timber Sale.

Unit 4 is a clearcut. This Unit is a Douglas-fir dominated forest with a significant component of red alder.

Sale Unit	Age	Species	DBH	Total Height (feet)
1	59	Douglas-fir	19.2	109
		Red alder	17.2	71
2	59	Douglas-fir	20.3	103
		Red alder	14.9	68
		Western hemlock	32.0	98
3	59	Douglas-fir	15.9	103
		Red alder	15.0	85
4	59	Douglas-fir	18.1	98
		Red alder	15.4	70

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

Cruiser /Dates

ODF Staff Cruised; September - October 2025.

Revenue Distribution

BOF – 100%

Tax Code: 902 (100%)

Deed Numbers: 161, 162

Attachments

Volume Summary Table (3)

Stand Table (3)

Log Stock Table (3)

Species, Sort, Grade Table (3)

Logging Plan (3)

Stand and Log Stock Tables Species Key

DF – Douglas-fir

RA – Red alder

WH – Western hemlock

WH – Western hemlock leave Unit 3

BM – Bigleaf maple leave

Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias NEW TABLE

Species: GEN WEST

Page: 1/1

Project: ZZR_FINAL_AD

Plots: 39

Sort: TILLAMOOK2

Date: 02/09/2026

Tract: VPLOT

Trees: 226

Grade: TILLAMOOK2

Cruised: 09/30/2025

Stand: 1

Measured Trees: 134

Price: ACI-2018

Grown To:

Acres: 96.00

Count Trees: 92

Cost: ACI-2023

Edited: 12/08/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-5	6-7	8-11	12-16	17-23	24-29	30-39	40-99
DF		CO	2	40+	1,345	.9	1,333	54.5	13,881				603	509	221		
DF		CO	3	16-21	3	.0	3	0.1	28				3				
DF		CO	3	24-27	3	.0	3	0.1	28				3				
DF		CO	3	28-31	2	.0	2	0.1	16				2				
DF		CO	3	32-35	7	.0	7	0.3	71				7				
DF		CO	3	40+	884	1.1	875	35.8	9,113		168	486	114	66	41		
DF		CO	4	12-15	7	.0	7	0.3	73	4	1	1					
DF		CO	4	16-21	16	.0	16	0.7	169	8	6	3					
DF		CO	4	22-23	6	.0	6	0.2	58	4		2					
DF		CO	4	24-27	22	.0	22	0.9	233	9	4	9					
DF		CO	4	28-31	23	.0	23	1.0	243	18		5					
DF		CO	4	32-35	36	.0	36	1.5	379	34		3					
DF		CO	4	36-39	55	.0	55	2.3	575	40		15					
DF		CO	4	40+	60	.0	60	2.4	624	31	29						
DF		Total			2,469	0.9	2,447	94.2	25,490	148	209	536	717	575	262		
RA		H	4	16-21	1	.0	1	0.9	15		1						
RA		H	4	28-31	2	.0	2	1.1	16		2						
RA		H	2	28-31	11	.0	11	7.1	110				11				
RA		H	2	32-35	11	.0	11	7.4	115				11				
RA		H	2	40+	11	.0	11	7.0	110				11				
RA		H	3	32-35	11	.0	11	7.7	119			11					
RA		H	3	40+	33	9.4	30	19.8	308			30					
RA		H	4	12-15	2	.0	2	1.5	24		2						
RA		H	4	16-21	8	.0	8	5.6	87		7	1					
RA		H	4	36-39	13	9.9	12	7.8	121		3	9					
RA		H	4	40+	57	9.9	51	34.2	533		12	39					
RA		Total			160	6.3	150	5.8	1,558		27	90	32				
Stand(s)/Project Totals					2,629	1.2	2,597	100.0	27,048								
Percent Measured Tree Net Mbf =									100.0	148	236	626	749	575	262		

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/1

Project: ZZR_FINAL_AD

Plots: 39

Sort: TILLAMOOK2

Date: 02/09/2026

Tract: VPLOT

Trees: 226

Grade: TILLAMOOK2

Cruised: 09/30/2025

Stand: 1

Measured Trees: 134

Price: ACI-2018

Grown To:

Acres: 96.00

Count Trees: 92

Cost: ACI-2023

Edited: 12/08/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
DF		11	4	59	82	106	5.223	3.45	7.835	115.1	14	53	3	110	418	0.0	300	105	40
DF		12	4	59	83	110	4.389	3.45	8.778	110.1	13	50	3	114	439	0.0	313	110	42
DF		13	4	59	81	94	3.740	3.45	6.545	86.8	15	57	3	101	374	5.0	277	97	36
DF		14	4	59	83	102	3.225	3.45	6.449	87.3	18	65	3	116	419	0.0	316	111	40
DF		15	3	59	85	104	2.107	2.59	4.214	83.3	21	78	2	87	330	0.0	239	84	32
DF		16	6	59	84	104	3.703	5.17	7.407	77.7	25	94	5	184	697	0.0	503	177	67
DF		17	5	59	85	108	2.734	4.31	5.467	76.3	27	109	4	149	596	0.0	408	143	57
DF		18	10	59	85	108	4.877	8.62	10.241	72.1	31	116	9	321	1,190	1.2	877	308	114
DF		19	5	59	84	109	34.477	68.94	73.341	68.5	36	149	76	2,651	10,946	0.9	7,254	2,545	1,051
DF		20	6	59	85	110	2.370	5.17	4.740	66.2	41	143	6	194	679	5.2	531	186	65
DF		21	4	59	85	111	1.433	3.45	3.583	63.7	37	138	4	134	494	5.1	367	129	47
DF		22	4	59	85	113	1.306	3.45	3.265	61.8	41	159	4	133	519	0.0	365	128	50
DF		23	9	59	85	113	2.688	7.76	6.571	58.8	46	186	9	303	1,222	0.0	830	291	117
DF		24	3	59	83	122	0.823	2.59	2.195	61.2	49	194	3	107	425	2.6	294	103	41
DF		25	2	59	83	125	0.506	1.72	1.264	59.9	57	232	2	72	293	0.0	198	69	28
DF		26	2	59	86	121	0.467	1.72	1.402	56.0	51	222	2	71	311	0.0	194	68	30
DF		27	4	59	84	118	0.867	3.45	2.167	52.6	63	262	4	136	568	0.0	373	131	55
DF		28	2	59	86	123	0.403	1.72	1.209	52.6	59	260	2	72	314	0.6	196	69	30
DF		29	3	59	85	126	0.564	2.59	1.503	52.2	64	289	3	96	434	0.0	263	92	42
DF		30	1	59	83	120	0.176	0.86	0.527	47.9	65	273	1	34	144	0.0	93	33	14
DF		31	4	59	85	132	0.658	3.45	1.973	51.0	76	357	4	151	704	0.0	413	145	68
DF		32	2	59	85	127	0.309	1.72	0.926	47.7	79	365	2	73	338	0.0	200	70	32
DF		33	1	59	83	122	0.145	0.86	0.435	44.3	79	343	1	35	149	0.0	94	33	14
DF		34	4	59	86	141	0.547	3.45	1.640	49.7	96	479	5	158	786	0.9	433	152	75
DF		35	3	59	87	141	0.387	2.59	1.161	48.3	103	514	3	119	597	2.2	326	114	57
DF		36	1	59	89	123	0.122	0.86	0.366	40.8	101	527	1	37	193	0.6	101	35	18
DF		37	3	59	88	141	0.346	2.59	1.039	45.7	116	629	3	120	653	0.0	329	115	63
DF		38	3	59	85	142	0.328	2.59	0.985	44.8	121	628	3	120	618	0.0	327	115	59
DF		39	1	59	86	162	0.104	0.86	0.312	49.9	140	777	1	44	242	0.0	119	42	23
DF		40	1	59	83	137	0.099	0.86	0.296	41.1	127	630	1	38	187	0.0	103	36	18
DF		41	1	59	86	145	0.094	0.86	0.282	42.3	143	743	1	40	210	4.0	111	39	20
DF			109	59	84	109	79.216	158.57	168.117	74.8	36	152	174	6,121	25,490	0.9	16,747	5,876	2,447
RA		11	1	59	67	81	1.306	0.86	0.000	88.3						0.0			
RA		14	2	59	75	69	1.612	1.72	0.806	59.5	32	80	1	25	64	12.5	67	24	6
RA		15	4	59	72	83	2.809	3.45	2.809	66.5	19	45	1	53	126	0.0	139	50	12
RA		16	1	59	78	74	0.617	0.86	0.617	55.6	39	70	1	24	43	28.6	63	23	4
RA		17	2	59	74	70	10.126	16.37	8.348	48.5	34	84	8	284	702	6.0	750	273	67
RA		18	4	59	72	68	1.951	3.45	1.951	45.2	39	68	2	75	132	11.1	198	72	13
RA		19	3	59	82	64	1.313	2.59	1.751	40.6	30	95	1	52	166	0.0	137	50	16
RA		20	2	59	76	60	0.790	1.72	0.790	36.1	56	80	1	45	63	31.3	118	43	6
RA		21	1	59	72	78	0.358	0.86	0.717	44.7	40	90	1	28	64	11.1	75	27	6
RA		22	3	59	81	62	0.979	2.59	0.979	34.0	50	147	1	49	144	0.0	128	47	14
RA		25	1	59	67	89	0.253	0.86	0.506	42.7	35	105		18	53	0.0	46	17	5
RA		28	1	59	69	66	0.202	0.86	0.000	28.3						0.0			
RA			25	59	74	71	22.317	36.20	19.273	51.9	34	81	18	652	1,558	6.3	1,721	626	150
Stands/Project:			134	59	82	101	101.532	194.77	187.391	69.7	36	144	192	6,773	27,048	1.2	18,467	6,502	2,597

Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias NEW TABLE

Species: GEN WEST

Page: 1/1

Project: ZZR_FINAL_AD

Plots: 34

Sort: TILLAMOOK2

Date: 02/09/2026

Tract: VPLOT

Trees: 230

Grade: TILLAMOOK2

Cruised: 10/15/2025

Stand: 2

Measured Trees: 142

Price: ACI-2018

Grown To:

Acres: 81.00

Count Trees: 88

Cost: ACI-2023

Edited: 12/31/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-5	6-7	8-11	12-16	17-23	24-29	30-39	40-99
DF		CO	2	28-31	19	.0	19	1.0	238							19	
DF		CO	2	40+	929	.0	929	49.0	11,472				448	482			
DF		CO	3	28-31	3	.0	3	0.1	32			3					
DF		CO	3	40+	715	.2	713	37.6	8,803		85	371	150	107			
DF		CO	4	12-15	4	.0	4	0.2	45	2	1	1					
DF		CO	4	16-21	26	.0	26	1.4	325	7	3	16					
DF		CO	4	22-23	13	.0	13	0.7	161	5	1	7					
DF		CO	4	24-27	13	.0	13	0.7	161	7		6					
DF		CO	4	28-31	13	.0	13	0.7	161	11		2					
DF		CO	4	32-35	23	.0	23	1.2	282	20	2						
DF		CO	4	36-39	35	.0	35	1.8	426	15				19			
DF		CO	4	40+	109	3.9	105	5.5	1,291	23	42	21	5	14			
DF		Total			1,901	0.3	1,895	82.3	23,397	91	135	425	604	622	19		
RA		H	3	16-21	41	.0	41	12.3	506			31	10				
RA		H	4	12-15	15	.0	15	4.6	190		1	14					
RA		H	4	16-21	81	15.3	69	20.6	848		26	21	10	12			
RA		H	4	22-23	29	.0	29	8.6	355		14	8	7				
RA		H	4	24-27	20	4.5	19	5.7	234		9		10				
RA		H	4	28-31	15	.0	15	4.6	190		15						
RA		H	4	32-35	28	.0	28	8.3	341		21	7					
RA		H	4	36-39	77	10.9	68	20.5	843		68						
RA		H	4	40+	51	1.8	50	14.9	613		21	29					
RA		Total			356	6.3	334	14.5	4,120		175	110	36	12			
WH		CO	2	40+	65	.0	65	89.4	808				5	48	12		
WH		CO	3	28-31	2	.0	2	3.2	29		1	1					
WH		CO	4	12-15		.0		0.6	5								
WH		CO	4	40+	5	.0	5	6.8	61			2	3				
WH		Total			73		73	3.2	903		1	4	8	48	12		
Stand(s)/Project Totals					2,330	1.2	2,302	100.0	28,420								
Percent Measured Tree Net Mbf =									100.0	91	311	539	648	682	32		

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/2

Project: ZZR_FINAL_DEC_31

Plots: 34

Sort: TILLAMOOK2

Date: 12/31/2025

Tract: VPLOT

Trees: 230

Grade: TILLAMOOK2

Cruised: 10/15/2025

Stand: 2

Measured Trees: 142

Price: ACI-2018

Grown To:

Acres: 81.00

Count Trees: 88

Cost: ACI-2023

Edited: 12/31/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
RA		10	1	59	69	36	2.157	1.18	0.000	43.3						0.0			
RA		11	4	59	70	108	7.131	4.71	7.131	117.3	11	40	2	78	285	0.0	173	63	23
RA		12	1	59	64	36	1.498	1.18	0.000	36.1						0.0			
RA		13	4	59	76	85	5.105	4.71	8.934	78.7	12	39	3	110	345	14.8	246	89	28
RA		14	8	59	74	56	8.804	9.41	8.804	48.0	18	45	5	156	396	13.9	395	126	32
RA		15	4	59	73	67	33.981	41.18	36.036	54.3	17	49	17	618	1,780	6.1	1,407	500	144
RA		16	9	59	70	58	7.583	10.59	4.213	43.7	20	48	2	83	202	4.2	185	67	16
RA		17	3	59	77	73	2.239	3.53	3.732	51.3	26	70	3	98	261	2.9	219	80	21
RA		18	8	59	73	63	5.326	9.41	9.320	42.1	19	56	5	175	519	9.0	390	142	42
RA		19	2	59	69	52	1.195	2.35	1.195	32.5	28	55	1	34	66	0.0	76	27	5
RA		20	1	59	69	66	0.539	1.18	0.539	39.4	8	20		4	11	0.0	10	4	1
RA		22	2	59	80	78	0.891	2.35	1.783	42.6	25	93	1	44	165	0.0	99	36	13
RA		24	1	59	83	89	0.374	1.18	0.374	44.6	47	240		17	90	0.0	39	14	7
RA			48	59	72	68	76.825	92.94	82.062	57.8	17	50	40	1,418	4,120	6.3	3,238	1,149	334
DF		11	2	59	83	77	3.565	2.35	3.565	83.8	16	50	2	58	178	0.0	133	47	14
DF		13	3	59	83	76	3.829	3.53	5.105	70.3	19	58	3	97	294	0.0	223	78	24
DF		14	1	59	80	108	1.101	1.18	2.201	92.7	18	65	1	40	143	0.0	92	32	12
DF		15	5	59	79	86	4.793	5.88	8.628	68.9	19	67	5	166	575	0.0	384	135	47
DF		16	5	59	82	101	4.213	5.88	7.583	75.8	26	91	6	196	691	0.0	452	159	56
DF		17	5	59	82	99	3.732	5.88	7.464	70.0	27	94	6	200	702	0.0	463	162	57
DF		18	2	59	81	102	1.331	2.35	2.663	68.1	31	108	2	82	286	0.0	189	66	23
DF		19	9	59	83	115	5.378	10.59	12.548	72.6	32	116	11	402	1,458	0.4	927	325	118
DF		20	5	59	82	103	32.494	72.94	66.471	60.7	39	150	75	2,616	9,979	0.3	6,039	2,119	808
DF		21	4	59	84	113	1.956	4.71	4.891	64.6	36	130	5	177	636	0.0	408	143	52
DF		22	4	59	80	109	1.783	4.71	4.457	59.3	35	124	4	157	553	0.0	362	127	45
DF		23	3	59	84	110	1.223	3.53	2.854	57.3	47	176	4	134	502	0.0	309	108	41
DF		24	5	59	82	112	1.872	5.88	4.119	55.9	51	205	6	211	843	0.0	486	171	68
DF		27	4	59	82	121	1.184	4.71	2.959	53.8	61	261	5	180	772	0.0	416	146	63
DF		28	3	59	81	118	0.825	3.53	2.201	50.7	62	249	4	137	548	0.0	316	111	44
DF		29	2	59	83	131	0.513	2.35	1.539	54.1	65	287	3	100	441	0.0	230	81	36
DF		30	3	59	83	134	0.719	3.53	2.157	53.6	70	312	4	152	673	0.0	351	123	55
DF		31	10	59	81	125	2.245	11.76	6.734	48.6	69	292	13	468	1,966	0.0	1,080	379	159
DF		32	1	59	78	129	0.211	1.18	0.632	48.5	74	283	1	47	179	3.5	108	38	15
DF		33	2	59	81	121	0.396	2.35	0.990	44.2	96	418	3	95	414	0.0	220	77	34
DF		34	2	59	80	123	0.373	2.35	0.933	43.4	99	430	3	92	401	0.0	213	75	32
DF		35	3	59	82	123	0.528	3.53	1.233	42.2	114	479	4	141	590	5.4	324	114	48
DF		36	2	59	83	121	0.333	2.35	0.832	40.4	99	450	2	82	374	0.0	190	67	30
DF		37	1	59	78	130	0.158	1.18	0.473	42.1	99	423	1	47	200	0.0	108	38	16
DF			86	59	82	103	74.755	168.24	153.232	64.3	40	153	173	6,074	23,397	0.3	14,023	4,920	1,895
OC		18	0	59	64	60	0.666	1.18	0.000	40.0						0.0			
OC		24	0	59	83	48	0.749	2.35	0.000	24.0						0.0			
OC			0	59	74	54	1.415	3.53	0.000	31.5	0	0				0.0			
WH		28	1	59	83	84	0.275	1.18	0.550	35.8	75	255	1	41	140	0.0	104	33	11
WH		29	2	59	87	100	0.513	2.35	1.282	41.2	76	324	3	98	416	0.0	246	79	34
WH		39	1	59	75	110	0.142	1.18	0.284	33.7	131	560	1	37	159	0.0	93	30	13
WH		42	1	59	78	115	0.122	1.18	0.245	32.7	172	770	1	42	188	0.0	105	34	15
WH			5	59	83	98	1.052	5.88	2.361	37.8	93	382	7	219	903	0.0	549	177	73

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 2/2

Project: ZZR_FINAL_DEC_31

Plots: 34

Sort: TILLAMOOK2

Date: 12/31/2025

Tract: VPLOT

Trees: 230

Grade: TILLAMOOK2

Cruised: 10/15/2025

Stand: 2

Measured Trees: 142

Price: ACI-2018

Grown To:

Acres: 81.00

Count Trees: 88

Cost: ACI-2023

Edited: 12/31/2025

												Net Per Log		Net Per Acre			BdFt Def	Total Net		
Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches		CuFt	BdFt	Tons	CuFt	BdFt	%	Tons	Ccf	Mbf
Stands/Project:			139	59	77	85	154.046	270.59	237.655	60.6		32	120	220	7,711	28,420	1.2	17,809	6,246	2,302

Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias NEW TABLE

Species: GEN WEST

Page: 1/1

Project: ZZR_FINAL_AD

Plots: 58

Sort: TILLAMOOK2

Date: 02/09/2026

Tract: VPLOT

Trees: 379

Grade: TILLAMOOK2

Cruised: 10/14/2025

Stand: 3

Measured Trees: 129

Price: ACI-2018

Grown To:

Acres: 91.00

Count Trees: 250

Cost: ACI-2023

Edited: 12/08/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-5	6-7	8-11	12-16	17-23	24-29	30-39	40-99
DF		CO	2	40+	951	.3	948	44.4	10,420				615	285	48		
DF		CO	3	28-31	5	.0	5	0.2	52		2	2					
DF		CO	3	32-35	5	.0	5	0.2	53			5					
DF		CO	3	40+	832	.9	825	38.7	9,067		202	602	21				
DF		CO	4	12-15	8	.0	8	0.4	86	6		2					
DF		CO	4	16-21	29	3.6	28	1.3	311	23	4	1					
DF		CO	4	22-23	17	.0	17	0.8	190	11		6					
DF		CO	4	24-27	30	.0	30	1.4	330	27	2	2					
DF		CO	4	28-31	16	.0	16	0.7	173	14	2						
DF		CO	4	32-35	45	.0	45	2.1	499	45							
DF		CO	4	36-39	26	.0	26	1.2	291	26							
DF		CO	4	40+	180	.0	180	8.4	1,980	58	53	69					
DF Total					2,145	0.5	2,134	90.2	23,451	211	266	689	636	285	48		
RA		H	3	28-31	11	.0	11	4.7	120			11					
RA		H	3	40+	20	3.8	20	8.5	216			20					
RA		H	4	12-15	11	.0	11	4.6	118		5	6					
RA		H	4	16-21	11	.0	11	4.5	116		4	7					
RA		H	4	22-23	7	.0	7	2.9	73		1	5					
RA		H	4	24-27	3	.0	3	1.5	37		3						
RA		H	4	28-31	11	.0	11	4.9	125		5	7					
RA		H	4	32-35	22	9.0	20	8.6	220		20						
RA		H	4	36-39	20	12.7	17	7.5	192		17						
RA		H	4	40+	128	5.2	121	52.3	1,335		40	82					
RA Total					244	4.9	232	9.8	2,552		95	137					
BM		H	4	28-31	1	.0	1	100.0	6		1						
BM Total					1		1	0.0	6		1						
Stand(s)/Project Totals					2,390	1.0	2,367	100.0	26,010								
Percent Measured Tree Net Mbf =									100.0	211	361	826	636	285	48		

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/2

Project: ZZR_FINAL-1

Plots: 58

Sort: TILLAMOOK2

Date: 12/08/2025

Tract: VPLOT

Trees: 380

Grade: TILLAMOOK2

Cruised: 10/14/2025

Stand: 3

Measured Trees: 130

Price: ACI-2018

Grown To:

Acres: 91.00

Count Trees: 250

Cost: ACI-2023

Edited: 12/08/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
DF		8	2	59	82	79	3.320	1.16	0.000	118.5						0.0			
DF		9	2	59	85	85	2.623	1.16	2.623	113.4	10	40	1	27	105	0.0	70	25	10
DF		10	1	59	86	124	1.062	0.58	2.125	149.0	9	45	1	20	96	0.0	52	18	9
DF		11	4	59	83	105	3.512	2.32	5.268	114.8	13	50	2	71	263	0.0	183	64	24
DF		12	4	59	85	92	2.951	2.32	5.903	92.4	12	48	2	71	280	0.0	185	65	26
DF		13	7	59	84	104	4.401	4.06	7.544	96.0	17	63	4	132	478	0.0	342	120	43
DF		14	4	59	85	93	2.168	2.32	3.795	79.4	19	66	2	71	249	2.2	185	65	23
DF		15	7	59	83	102	3.305	4.06	6.611	82.0	21	80	4	141	529	0.0	366	128	48
DF		16	4	59	84	104	84.254	115.90	152.578	78.2	27	108	119	4,163	16,404	0.5	10,795	3,788	1,493
DF		17	6	59	84	114	2.206	3.48	4.779	80.7	28	108	4	132	518	2.1	343	120	47
DF		18	3	59	84	113	0.984	1.74	2.295	75.0	27	104	2	63	239	0.0	162	57	22
DF		19	8	59	85	110	2.354	4.64	5.298	69.4	33	123	5	174	650	0.5	452	159	59
DF		20	9	59	85	112	2.391	5.22	5.312	67.1	37	137	6	194	728	0.0	503	177	66
DF		21	5	59	82	110	1.205	2.90	2.891	63.0	38	133	3	109	385	0.0	282	99	35
DF		22	4	59	85	115	0.878	2.32	2.195	62.8	41	152	3	89	334	5.9	232	81	30
DF		23	4	59	83	119	0.803	2.32	2.410	62.1	39	158	3	95	380	0.0	247	87	35
DF		24	1	59	83	122	0.184	0.58	0.553	61.2	43	177	1	24	98	0.0	62	22	9
DF		25	1	59	83	118	0.170	0.58	0.510	56.7	47	190	1	24	97	0.0	62	22	9
DF		26	3	59	86	130	0.472	1.74	1.415	60.0	53	240	2	76	339	0.0	196	69	31
DF		27	1	59	86	136	0.146	0.58	0.437	60.4	60	273	1	26	120	0.0	68	24	11
DF		28	2	59	85	121	0.271	1.16	0.678	52.0	68	290	1	46	197	0.0	119	42	18
DF		29	3	59	84	137	0.379	1.74	1.137	56.5	69	320	2	78	364	0.0	202	71	33
DF		31	3	59	87	128	0.332	1.74	0.995	49.6	75	359	2	75	357	0.0	194	68	32
DF		37	1	59	86	116	0.078	0.58	0.233	37.6	97	447	1	23	104	0.0	58	21	9
DF		39	1	59	86	138	0.070	0.58	0.210	42.4	124	657	1	26	138	0.0	68	24	13
DF			90	59	84	103	120.519	165.73	217.795	81.8	27	108	170	5,950	23,451	0.5	15,430	5,414	2,134
RA		11	2	59	75	110	1.756	1.16	1.756	120.3	17	55	1	30	97	0.0	76	28	9
RA		12	1	59	80	62	0.738	0.58	0.738	62.2	18	50		13	37	20.0	33	12	3
RA		13	5	59	72	93	3.143	2.90	2.515	86.3	18	55	1	46	138	4.5	115	42	13
RA		14	3	59	74	102	1.626	1.74	2.168	87.5	20	60	1	43	130	4.2	107	39	12
RA		15	2	59	74	85	24.191	29.55	26.354	68.0	22	63	17	593	1,663	5.2	1,516	539	151
RA		16	7	59	76	68	2.905	4.06	3.320	51.3	22	69	2	74	228	5.5	186	68	21
RA		17	4	59	76	77	1.471	2.32	1.471	54.3	34	83	1	50	121	6.1	125	45	11
RA		18	3	59	71	77	0.984	1.74	1.312	51.0	24	68	1	31	89	7.4	78	28	8
RA		19	1	59	67	58	0.294	0.58	0.000	36.5						0.0			
RA		23	1	59	69	82	0.201	0.58	0.402	42.9	48	105	1	19	42	0.0	49	18	4
RA		25	1	59	69	34	0.170	0.58	0.170	16.4	12	40		2	7	0.0	26	2	1
RA			30	59	74	85	37.479	45.78	40.205	69.8	22	63	25	902	2,552	4.9	2,311	821	232
OC	1	15	0	59		0	0.472	0.58	0.000	0.0						0.0			
OC-1			0	59	0	0	0.472	0.58	0.000	0.0	0	0				0.0			
OC	2	11	0	59		0	0.878	0.58	0.000	0.0						0.0			
OC	2	27	0	59		45	0.146	0.58	0.000	20.0						0.0			
OC-2			0	59	0	6	1.024	1.16	0.000	2.8	0	0				0.0			
OC	4	19	0	59		20	0.294	0.58	0.000	12.6						0.0			
OC-4			0	59	0	20	0.294	0.58	0.000	12.6	0	0				0.0			

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 2/2

Project: ZZR_FINAL-1

Plots: 58

Sort: TILLAMOOK2

Date: 12/08/2025

Tract: VPLOT

Trees: 380

Grade: TILLAMOOK2

Cruised: 10/14/2025

Stand: 3

Measured Trees: 130

Price: ACI-2018

Grown To:

Acres: 91.00

Count Trees: 250

Cost: ACI-2023

Edited: 12/08/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt	%	Tons	Ccf	Mbf
BM		12	1	59	75	136	0.738	0.58	0.000	136.4						0.0			
BM		15	1	59	69	59	0.472	0.58	0.000	46.8						0.0			
BM		23	2	59	75	56	0.402	1.16	0.201	29.1	30	30		6	6	0.0	15	6	1
BM		26	1	59	83	81	0.157	0.58	0.000	37.2						0.0			
BM			5	59	74	92	1.769	2.90	0.201	79.3	30	30		6	6	0.0	15	6	1
WH		15	1	59	86	49	0.472	0.58	0.472	39.4	24	40		11	19	0.0	31	10	2
WH			1	59	86	49	0.472	0.58	0.472	39.4	24	40		11	19	0.0	31	10	2
Stands/Project:			126	59	81	98	162.030	217.31	258.673	78.0	27	101	195	6,869	26,029	1.0	17,787	6,250	2,369

Log Stock - Mbf by Species, Sort, Grade, Len, Dia Class

State, County: OR TILLAMOOK

Lths And Dias NEW TABLE

Species: GEN WEST

Page: 1/1

Project: ZZR_FINAL_AD

Plots: 35

Sort: TILLAMOOK2

Date: 02/09/2026

Tract: VPLOT

Trees: 274

Grade: TILLAMOOK2

Cruised: 10/07/2025

Stand: 4

Measured Trees: 148

Price: ACI-2018

Grown To:

Acres: 85.00

Count Trees: 126

Cost: ACI-2023

Edited: 12/08/2025

Species	Stat us	Srt	Grd	Log Len Class	Gross Mbf	% Def	Net Mbf	% Spp	BdFt Per Acre	Net Mbf by Scaling Diameter in Inches							
										2-5	6-7	8-11	12-16	17-23	24-29	30-39	40-99
DF		CO	2	40+	664	.7	659	51.2	7,755				499	160			
DF		CO	3	16-21	9	.0	9	0.7	103				9				
DF		CO	3	24-27	3	.0	3	0.2	32			3					
DF		CO	3	28-31	2	.0	2	0.1	22		2						
DF		CO	3	32-35	2	.0	2	0.2	23				2				
DF		CO	3	40+	434	.3	432	33.5	5,084		91	312	29				
DF		CO	4	12-15	7	.0	7	0.5	77	6	1						
DF		CO	4	16-21	7	.0	7	0.6	84	5	1	2					
DF		CO	4	22-23	6	.0	6	0.5	75	5	1						
DF		CO	4	24-27	22	.0	22	1.7	260	22							
DF		CO	4	28-31	7	.0	7	0.5	78	7							
DF		CO	4	32-35	10	.0	10	0.8	116	10							
DF		CO	4	36-39	64	.0	64	4.9	750	39		13	12				
DF		CO	4	40+	40	.0	40	3.1	469	20	20						
DF		H	4	40+	19	.0	19	1.5	228		6	14					
DF Total					1,294	0.4	1,288	80.0	15,155	113	122	345	549	160			
RA		H	3	16-21	7	.0	7	2.0	77				7				
RA		H	3	22-23	7	.0	7	2.1	79			7					
RA		H	3	40+	6	.0	6	1.9	73			6					
RA		H	4	12-15	22	5.4	21	6.6	248		7		14				
RA		H	4	16-21	23	.0	23	7.0	266		6	12	5				
RA		H	4	22-23	19	3.1	19	5.8	218		2	13	4				
RA		H	4	24-27	12	.0	12	3.8	143		12						
RA		H	4	28-31	21	10.4	19	5.8	221		19						
RA		H	4	32-35	44	10.9	39	12.2	460		39						
RA		H	4	36-39	30	6.1	28	8.7	328		28						
RA		H	4	40+	158	10.2	142	44.1	1,666		60	74	8				
RA Total					348	7.7	321	20.0	3,780		173	111	37				
Stand(s)/Project Totals					1,642	2.0	1,609	100.0	18,935								
Percent Measured Tree Net Mbf =										113	294	457	586	160			

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 1/2

Project: ZZR_FINAL-1

Plots: 35

Sort: TILLAMOOK2

Date: 12/08/2025

Tract: VPLOT

Trees: 274

Grade: TILLAMOOK2

Cruised: 10/07/2025

Stand: 4

Measured Trees: 148

Price: ACI-2018

Grown To:

Acres: 85.00

Count Trees: 126

Cost: ACI-2023

Edited: 12/08/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
RA		10	2	59	75	94	2.910	1.59	1.455	113.2	11	30		17	44	33.3	39	14	4
RA		11	5	59	73	77	6.013	3.97	2.405	84.4	16	45	1	40	108	0.0	92	34	9
RA		12	4	59	73	80	4.042	3.17	4.042	79.5	16	45	2	65	182	5.6	153	56	15
RA		13	4	59	72	68	3.444	3.17	1.722	62.9	11	35	1	18	60	0.0	43	16	5
RA		14	3	59	71	56	2.227	2.38	1.485	48.4	23	40	1	34	59	12.5	80	29	5
RA		15	9	59	73	68	37.919	48.42	33.132	53.1	25	56	23	818	1,870	7.9	1,930	695	159
RA		16	6	59	70	82	3.411	4.76	3.979	61.4	31	61	3	124	244	11.6	290	105	21
RA		17	11	59	74	67	5.539	8.73	7.050	47.5	28	60	6	198	423	10.7	468	169	36
RA		18	9	59	72	63	4.042	7.14	4.941	41.8	28	59	4	138	292	6.2	333	117	25
RA		19	4	59	73	70	1.612	3.17	2.016	44.4	24	64	1	48	129	9.4	111	40	11
RA		20	3	59	69	60	1.091	2.38	1.091	36.3	36	77	1	39	84	4.3	92	33	7
RA		21	2	59	71	73	0.660	1.59	0.990	41.6	18	57		18	56	5.9	42	15	5
RA		22	2	59	79	57	0.601	1.59	0.601	31.3	40	90	1	24	54	22.2	57	21	5
RA		23	1	59	75	71	0.275	0.79	0.550	36.9	17	75		10	41	0.0	22	8	4
RA		24	1	59	72	64	0.253	0.79	0.253	32.1	51	80		13	20	12.5	30	11	2
RA		25	1	59	67	85	0.233	0.79	0.233	40.6	37	180		9	42	0.0	29	7	4
RA		26	1	59	67	84	0.215	0.79	0.215	38.7	49	160		10	34	12.5	24	9	3
RA		27	1	59	67	75	0.200	0.79	0.399	33.4	25	90		10	36	11.1	23	8	3
RA			69	59	73	70	74.690	96.04	66.560	58.1	25	57	45	1,633	3,780	7.7	3,859	1,388	321
DF		9	1	59	81	49	1.797	0.79	1.797	64.7	7	30		13	54	0.0	31	11	5
DF		10	1	59	83	66	1.455	0.79	1.455	79.0	13	40	1	18	58	0.0	44	16	5
DF		11	2	59	85	108	2.405	1.59	4.811	118.2	12	48	2	56	229	0.0	135	47	19
DF		12	1	59	83	101	1.011	0.79	2.021	101.1	13	45	1	26	91	0.0	63	22	8
DF		13	1	59	83	106	0.861	0.79	1.722	98.0	16	55	1	28	95	9.1	68	24	8
DF		14	3	59	85	92	2.227	2.38	4.455	78.6	17	63	2	75	282	0.0	181	63	24
DF		15	4	59	83	90	2.587	3.17	4.527	71.9	22	77	3	100	349	0.0	243	85	30
DF		16	5	59	83	104	2.842	3.97	5.685	77.7	25	90	4	140	512	0.0	339	119	43
DF		17	5	59	84	99	2.518	3.97	5.035	69.7	27	96	4	135	483	0.0	327	115	41
DF		18	8	59	84	99	34.283	61.12	65.916	65.5	32	120	60	2,105	7,930	0.4	5,100	1,790	674
DF		19	4	59	83	106	1.612	3.17	3.628	66.8	32	112	3	117	407	0.0	283	99	35
DF		20	9	59	84	107	3.274	7.14	6.912	64.3	38	134	8	264	928	0.0	638	224	79
DF		21	3	59	85	92	0.990	2.38	1.980	52.5	39	130	2	77	257	0.0	186	65	22
DF		22	4	59	83	98	1.203	3.17	2.706	53.7	42	142	3	112	385	0.0	272	95	33
DF		23	6	59	85	110	1.651	4.76	3.851	57.2	48	186	5	184	718	0.0	445	156	61
DF		24	5	59	86	111	1.263	3.97	3.032	55.4	51	207	4	153	627	0.0	371	130	53
DF		25	2	59	85	101	0.466	1.59	0.931	48.6	55	208	1	51	193	0.0	124	43	16
DF		26	2	59	85	109	0.431	1.59	0.861	50.4	67	255	2	58	220	0.0	141	49	19
DF		27	2	59	86	114	0.399	1.59	0.998	50.8	62	250	2	62	250	4.8	150	53	21
DF		28	1	59	86	111	0.186	0.79	0.186	47.5	115	450	1	21	84	17.8	52	18	7
DF		29	2	59	82	131	0.346	1.59	1.038	54.2	64	275	2	67	286	0.0	162	57	24
DF		31	1	59	83	131	0.151	0.79	0.151	50.9	142	700	1	21	106	0.0	52	18	9
DF		32	1	59	86	118	0.142	0.79	0.426	44.4	77	343	1	33	146	0.0	79	28	12
DF		33	2	59	81	140	0.267	1.59	0.802	51.0	88	398	2	70	319	0.0	170	60	27
DF		34	1	59	86	123	0.126	0.79	0.378	43.5	84	390	1	32	147	0.0	77	27	13
DF			76	59	84	98	64.494	115.09	125.306	68.7	32	121	115	4,018	15,155	0.4	9,733	3,415	1,288
OC	1	21	0	59		101	0.330	0.79	0.000	57.7						0.0			
OC-1			0	59	0	101	0.330	0.79	0.000	57.7	0	0				0.0			
OC	2		0	0		0	0.000	3.97	0.000							0.0			

Stand Summary Report

State, County: OR TILLAMOOK

Lths & Dias: ACI-2023

Species GEN WEST

Page: 2/2

Project: ZZR_FINAL-1

Plots: 35

Sort: TILLAMOOK2

Date: 12/08/2025

Tract: VPLOT

Trees: 274

Grade: TILLAMOOK2

Cruised: 10/07/2025

Stand: 4

Measured Trees: 148

Price: ACI-2018

Grown To:

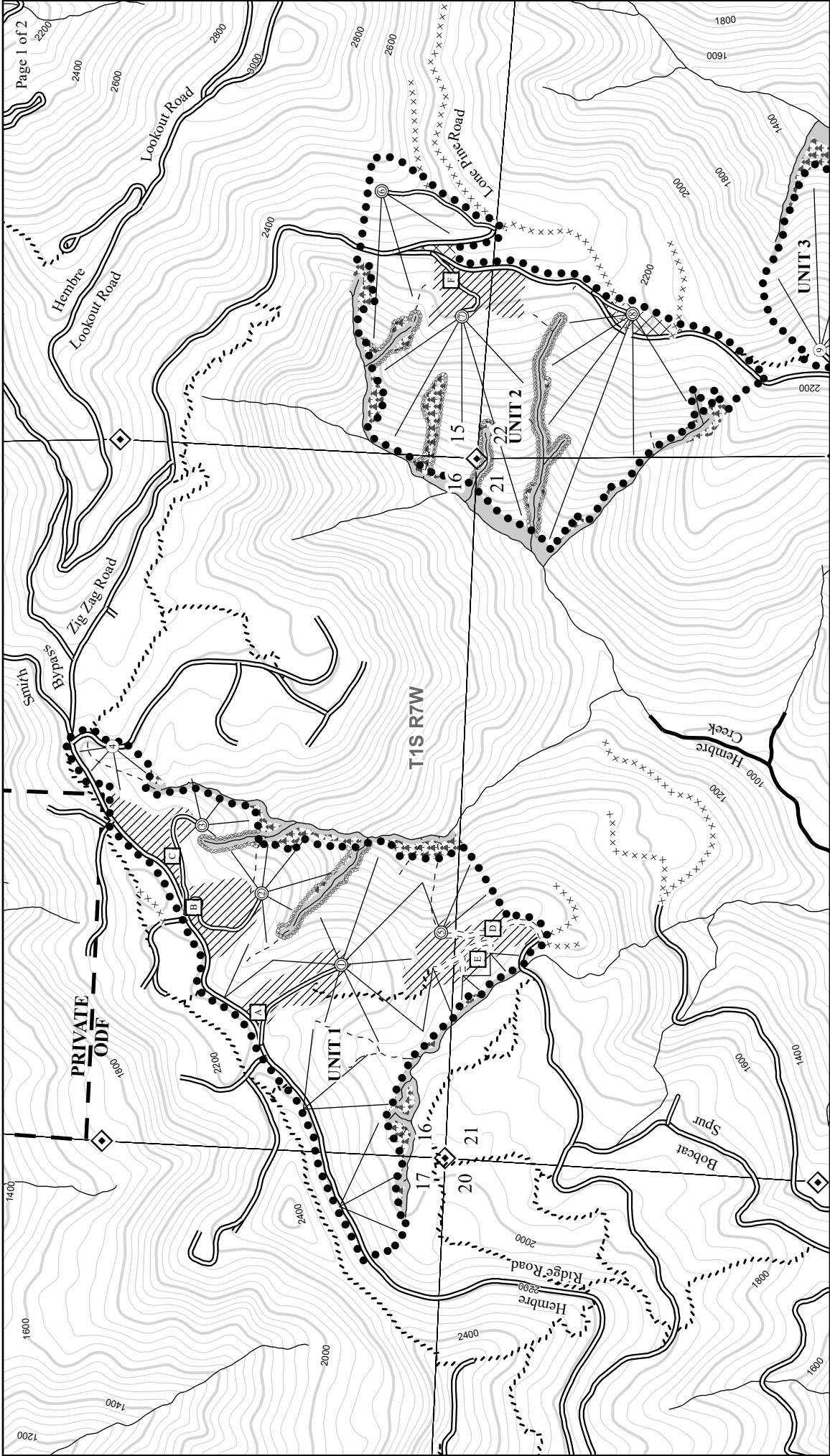
Acres: 85.00

Count Trees: 126

Cost: ACI-2023

Edited: 12/08/2025

Spp	St	Dbh	Smpl Trees	Avg Age	Avg FF	Avg Total Ht	Trees /Ac	BA /Ac	Logs /Ac	Ht/D Inches	Net Per Log		Net Per Acre			BdFt Def %	Total Net		
											CuFt	BdFt	Tons	CuFt	BdFt		Tons	Ccf	Mbf
OC	2	16	0	59		25	0.568	0.79	0.000	18.8						0.0			
OC	2	25	0	59		84	0.233	0.79	0.000	40.3						0.0			
OC-2			0	59	0	42	0.801	5.56	0.000	25.0	0	0				0.0			
Stands/Project:			145	59	77	83	140.315	217.48	191.865	62.8	29	99	160	5,651	18,935	2.0	13,592	4,803	1,609



LOGGING PLAN

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	20	76	96
UNIT 2	5	76	81
UNIT 3	0	91	91
UNIT 4	6	79	85
TOTAL	31	322	353

FOR TIMBER SALE CONTRACT TL-341-2026-W01156-01
ZIG ZAG ROAD
PORTIONS OF SECTIONS 15, 16, 17, 21, 22, 27, 28 of T1S R7W W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
January 2026

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

- Ground Landing
- Landing To Be Constructed
- Existing Landing
- Cable Logging
- Ground Based
- Timber Sale Boundary
- Riparian Boundary
- Riparian Buffer
- Green Tree Retention
- No Harvest Other
- Type-F Stream
- Type-N Perennial Stream
- Type-N Seasonal Stream
- Surfaced Road
- Blocked Road
- Unsurfaced Road
- Recreation Trail
- 200' Contour
- 40' Contour
- Property Line



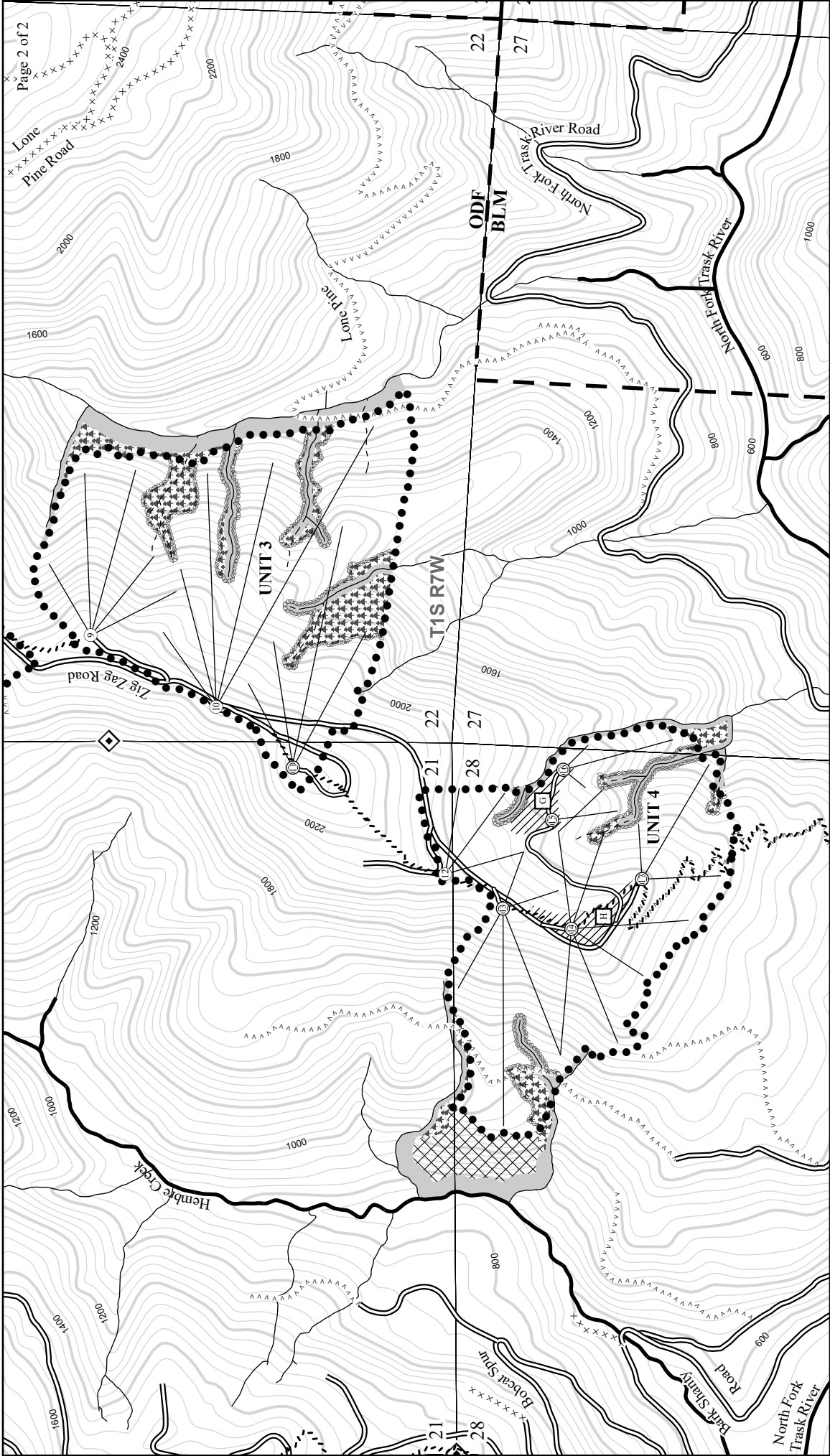
1:12,000

1 inch = 1,000 feet

0 1,000 2,000



Feet



LOGGING PLAN

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	20	76	96
UNIT 2	5	76	81
UNIT 3	0	91	91
UNIT 4	6	79	85
TOTAL	31	322	353

FOR TIMBER SALE CONTRACT TL-341-2026-W01156-01
ZIG ZAG ROAD
PORTIONS OF SECTIONS 15, 16, 17, 21, 22, 27, 28 of T1S R7W W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
April 2026

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

0 1,150 2,300



- Ground Landing
- Landing To Be Constructed
- Existing Landing
- Cable Logging
- Ground Based
- Timber Sale Boundary
- Riparian Boundary
- Riparian Buffer
- Green Tree Retention
- No Harvest Other
- Type-F Stream
- Type-N Perennial Stream
- Type-N Seasonal Stream
- Surfaced Road
- Blocked Road
- Abandoned Road
- Recreation Trail
- 200' Contour
- 40' Contour
- Property Line