

### **District: Forest Grove**

## Date: March 27, 2025

## **Cost Summary**

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,699,522.90	\$0.00	\$1,699,522.90
		Project Work:	(\$344,897.00)
		Advertised Value:	\$1,354,625.90



### **District: Forest Grove**

### Date: March 27, 2025

## **Timber Description**

#### Location:

#### Stand Stocking: 20%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	23	0	98
Western Hemlock / Fir	16	0	98

Volume by Grade	2S	3S & 4S 6"- 11"	Total
Douglas - Fir	2,699	673	3,372
Western Hemlock / Fir	365	173	538
Total	3,064	846	3,910

#### Comments: LOCAL POND VALUES, FEBRUARY 2025

WESTERN REDCEDAR AND OTHER CEDARS STUMPAGE PRICE = POND VALUE MINUS DOUGLAS-FIR LOGGING COST: \$881.25 = \$1,180 - \$298.75

OTHER CONIFERS STUMPAGE PRICE = POND VALUE MINUS WESTERN HEMLOCK LOGGING COST: \$192.67 = \$531.61 - \$338.94

RED ALDER AND OTHER HARDWOODS STUMPAGE PRICE = POND VALUE MINUS DOUGLAS-FIR LOGGING COST: \$197.25 = \$496 - \$298.75

BRANDING AND PAINTING ALLOWANCE = \$2.00/MBF

FUEL COST ALLOWANCE = \$5.00/GAL

HAULING COST ALLOWANCE = \$1,250/DAY

OTHER COSTS (WITH PROFIT & RISK ADDED): N/A

OTHER COSTS (NO PROFIT & RISK ADDED):

EQUIPMENT CLEANING: 3 PIECES @ \$1,000/PIECE = \$3,000

MACHINE TIME TO BLOCK/WATERBAR ROADS AND SKID TRAILS: 30 HOURS X \$200/HOUR = \$6,000

MACHINE TIME TO PILE LANDING SLASH AND SORT FIREWOOD: 30 HOURS X \$200/HOUR = \$6,000

TOTAL OTHER COSTS (NO P&R) = \$15,000

SLASH TREATMENT: 14 ACRES X \$250/ACRE = \$3,500

ROAD MAINTENANCE (INCLUDES SPOT ROCKING, GRADING, & ROLLING): MOVE IN: \$8,136.87 GENERAL ROAD MAINT: 15.87 miles X \$2,098.25 = \$33,299.23 TOTAL ROAD MAINTENANCE: \$41,436.10 / 3,910 MBF = \$10.60/MBF



### **District: Forest Grove**

### Date: March 27, 2025

	Loggir	ng Conditions
Combination#: 1	Douglas - Fir Western Hemlock / Fir	74.00% 74.00%
Logging System: yarding distance: tree size:	Cable: Medium Tower >40 - <70 Medium (800 ft) Mature / Regen Cut (900 Bft/tree), 3-5 log	Process: Harvester Head Delimbing downhill yarding: No s/MBF
loads / day: cost / mbf: machines:	16 \$105.80 Log Loader (A) Forwarder Harvester Tower Yarder (Medium)	<b>bd. ft / load:</b> 4713
Combination#: 2	Douglas - Fir Western Hemlock / Fir	26.00% 26.00%
Logging System: yarding distance: tree size:	Shovel Short (400 ft) Mature / Regen Cut (900 Bft/tree), 3-5 log	Process: Manual Falling/Delimbing downhill yarding: No s/MBF
loads / day: cost / mbf: machines:	19 \$114.44 Shovel Logger	<b>bd. ft / load:</b> 4599



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Logging Costs			
Operating Seasons: 2.00 Profit Risk: 15%			
Project Costs: \$344,897.00	Other Costs (P/R): \$0.00		
Slash Disposal: \$3,500.00	Other Costs: \$15,000.00		

Miles of Road		Road Maintenance:	\$10.60
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	4.8
Western Hemlock / Fir	\$0.00	2.0	3.8
Grand Fir	\$0.00	2.0	3.7
Noble Fir	\$0.00	2.0	4.0



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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								
\$108.05	\$10.81	\$2.25	\$132.81	\$0.00	\$38.09	\$0.90	\$2.00	\$3.84	\$298.75
Western H	emlock	/ Fir							
\$108.05	\$10.81	\$2.25	\$167.76	\$0.00	\$43.33	\$0.90	\$2.00	\$3.84	\$338.94

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$772.02	\$473.27	\$0.00
Western Hemlock / Fir	\$0.00	\$531.61	\$192.67	\$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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	3,372	\$473.27	\$1,595,866.44
Western Hemlock / Fir	538	\$192.67	\$103,656.46

Gross Timber Sale Value				
Recovery:	\$1,699,522.90			
Prepared By: Adrian Torres	<b>Phone:</b> 503-357-2191			

#### TIMBER SALE SUMMARY Wolf'sEnd #FG-341-2025-W00951-01

- 1. Location: Portions of Section 4, T2N, R6W, W.M., Washington County, Oregon.
- 2. <u>Type of Sale</u>: This timber sale is 107 net acres of Clearcut. The timber will be sold on a recovery basis at a sealed bid auction.
- 3. <u>Revenue Distribution</u>: 100% BOF; 100% Washington County
- 4. <u>Sale Acreage</u>: Acres are net of Stream Buffers, Green Tree Retention Areas, and road prisms. Acreage was determined using ESRI ArcMap GIS Pro software.
- 5. <u>Cruise</u>: The Timber Sale was cruised by ODF timber cruisers in January of 2024. For more information, see Cruise Report.
- 6. <u>Timber Description</u>: The Timber Sale Area consists of a well-stocked, 85 year-old stand of Douglas-fir with minor components of western hemlock, noble fir, and grand fir. This timber stand has an average of 182 ft<sup>2</sup> of basal area and an average Douglas-fir DBH of 23 inches. The estimated average net Douglas-fir volume is approximately 31.5 MBF per acre.
- <u>Topography and Logging Method</u>: Slopes within the Timber Sale Area range from 5% to 80% with variable aspect. The Timber Sale Area is 26% ground-based Yarding and 74% cablebased Yarding. The average horizontal skid trail length is 120 feet and the maximum is approximately 350 feet. The average cable yarding road length is 450 feet and the maximum is approximately 1,350 feet.
- 8. <u>Access</u>: All access to the Timber Sale Area is on surfaced roads. From Forest Grove, travel north on Highway 47 through Banks, then merge onto Highway 26. Continue on Highway 26 westbound for approximately 11.5 miles to Timber Road and turn left. Continue for 3 miles to Cochran Road and turn right. Continue for 3.8 miles to Round Top Road and turn left. Continue for 0.3 miles to Goldminer Spur Road and turn right. Continue for 3.4 miles to Bell Camp Road and turn right. Continue for 2.5 miles to Standard Grade Road and turn right. Continue for 1.3 miles to Standard Grade Loop and turn left. Continue for 0.3 miles to Wolf Creek Grade and turn left. Continue for 2.9 miles to access the Timber Sale Area.

#### 9. Projects:

Project No. 1: Road Improvement

\$344,897.00

Total Credit for all Projects

\$344,897.00

#### PROJECT COST SUMMARY SHEET

Timber Sale:	Wolf's End
Sale Number:	FG-341-2025-W00951-01

#### PROJECT NO. 1: ROAD IMPROVEMENT

	Road Segment	Length	Cost
	A to B	524+60	\$48,208.47
	B to C	262+85	\$243,360.78
	D to E	29+90	\$29,064.32
	F to G	10+80	\$7,207.41
	H to I	4+75	\$6,051.57
	J to K	12+50	\$3,581.49
-		845+40 stations	
		16.01 miles	
Total Rock =			
	1,592 cy	1½" - 0	
	4,987 cy	4"-0 Jaw-run	
	816 cy	Pit-run	
	516 cy	Riprap	
		Move-in =	\$7,422.96
		TOTAL PROJECT COST =	\$344,897.00
		<u>TOTAL CREDITS =</u>	\$344,897.00

Timber Sele				CTION COST	Number	FC 244 202	
Timber Sale: Road Segment:		Wolf's En A to B	<u>a</u>	-	rovement:		5-W00951-01 stations miles
PROJECT NO. 1: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter) End-haul waste from Culvert Nos. 1 & 2	6.03	ac @	\$1,353.60	per acre =		\$8,162.21	
Haul waste material	48	cy @	\$5.66	per cy =		\$271.68	
Shape and compact waste material	62	cy @		per cy =		\$21.70	
Improve turnout	13	ea @		per ea =		\$471.90	
Improve roadside landing	4	ea @		per ea =		\$363.00	
Grade, ditch, & roll	524.60	sta @		, per sta =		\$18,597.07	
		-					<b>\$07.007.50</b>
					ROVEMEN	<u>NT COSTS =</u>	\$27,887.56
CULVERTS Culverts and Bands	-						
18" Diameter	60	lf @	\$22.05	por If -		¢1 222 00	
Markers & Stakes	60	lf @	φ <u>2</u> 2.05	per lf =		\$1,323.00	
Culvert markers	2	ea @	\$12.00	por og -		\$24.00	
Cuivent markers	Z	ea @	φ12.00	per ea =			¢4 047 00
ROCK				<u>101A</u>	LCULVER	RT COSTS =	\$1,347.00
ROCK							
	Rock	Base	Haul Cost	Placement/			
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy	Total CY	Rock Cost	
	0120	οσοι φ, σγ	¢, cy	1 10000011g 0001 \$/0y			
Subgrade rock		•					
Bedding and backfill	1½" - 0	\$6.33	\$26.27	\$0.55	48	\$1,591.20	
				Subtotal =	48	\$1,591.20	
Surfacing rock							
Surfacing rock	1½" - 0	\$6.33	\$26.27	\$1.35	15	\$509.25	
Spot rock	1½" - 0	\$6.33	\$26.27	\$1.35	24	\$814.80	
Junction	1½" - 0	\$6.33	\$26.27	\$1.35	84	\$2,851.80	
Turnout	1½" - 0	\$6.33	\$26.27	\$1.35	91	\$3,089.45	
Roadside landing	Jaw-run	\$17.40	\$12.46	\$1.35	188	\$5,867.48	
				Subtotal =	402	\$13,132.78	
			<b>T</b> . 4 . 1 .		450	1	
			Totals	All Rock =	450		
				11/2" - 0			
				Jaw-run	188	1	
				<u>TC</u>	DTAL ROC	<u> CK COSTS =</u>	\$14,723.98
EROSION CONTROL							
Grass seed & fertilizer	6.03	ac @	\$697.50	per ac =		\$4,205.93	
Straw mulch bale	4	ea @	\$11.00	, per ea =		\$44.00	
		0	-	·		<u> </u>	

TOTAL EROSION CONTROL COSTS = \$4,249.93

**TOTAL PROJECT COST =** \$48,208.47

Timber Sale: Road Segment:	2010	Wolf's End B to C		CTION COST -	Sale Number: _ Improvement:	FG-341-202	5-W00951-0 stations
Noud Ocyment.		0100		-		4.98	miles
PROJECT NO. 1: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter)	3.02	-		per acre =		\$5,109.84	
Roadside brushing Clean ditch & end-haul waste material to	0.77	mi @	\$850.00	per mi =		\$654.50	
Waste Area No. 1.	1.15	sta @	\$66.00	per sta =		\$75.90	
Haul waste material	8	cy @	\$1.09	per cy =		\$8.72	
Shape and compact waste material	8	cy @	\$0.35	per cy =		\$2.80	
Clean ditch & end-haul waste material to							
Waste Area No. 2.	4.65	sta @	\$66.00	per sta =		\$306.90	
Haul waste material Shape and compact waste material	34 34	cy @ cy @	\$2.27 \$0.35	per cy = per cy =		\$77.18 \$11.90	
Clean ditch & end-haul waste material to	04	0) @	ψ0.00	per cy -		φ11.50	
Waste Area No. 3.	6.80	sta @	\$66.00	per sta =		\$448.80	
Haul waste material	49	су @	\$1.20	per cy =		\$58.80	
Shape and compact waste material	49	су @	\$0.35	per cy =		\$17.15	
End-haul waste from Culvert Nos. 3, 4, 6-8,							
10, 11, 13-25, & 27 to Waste Area No. 1. Haul waste material	504	су @	\$3.39	per cy =		\$1,708.56	
Shape and compact waste material	655	cy@	\$0.35	per cy =		\$229.25	
End-haul waste from Culvert Nos. 28-35 & 39		-76		P - · · · <b>/</b>			
to Waste Area No. 2.							
Haul waste material	216	cy @	\$1.80	per cy =		\$388.80	
Shape and compact waste material End-haul waste from Culvert Nos. 40-42 To	281	су @	\$0.35	per cy =		\$98.35	
Waste Area No. 3.							
Haul waste material	72	cy @	\$1.75	per cy =		\$126.00	
Shape and compact waste material	94	cy @	\$0.35	per cy =		\$32.90	
Clean culvert inlet & outlet, scatter waste	3	ea @	\$27.50	per ea =		\$82.50	
Clean culvert inlet & outlet, end-haul waste to	4		¢07.50			¢07.50	
Waste Area No. 2 at 132+10 Haul waste material	1 1	ea @ cy @	\$27.50 \$1.43	per ea = per cy =		\$27.50 \$1.43	
Shape and compact waste material	1	cy@	\$0.35	per cy =		\$0.35	
Remove existing culvert at 123+60	1	ea @		per ea =		\$165.00	
Haul waste material	24	cy @	\$1.83	per cy =		\$43.92	
Shape and compact waste material	31	су @	\$0.35	per cy =		\$10.85	
Cutslope layback & Bank slough removal to							
Waste Area No. 1. Excavate & load	885	су @	\$2.77	per cy =		\$2,451.45	
Haul	1,151	cy @	\$2.06	per cy =		\$2,371.06	
Shape and compact waste material	1,151	cy @	\$0.35	per cy =		\$402.85	
Cutslope layback & Bank slough removal to	.,	-76		P - · · · <b>/</b>		•••	
Waste Area No. 2.							
Excavate & load	1,574	су @	\$2.04	per cy =		\$3,210.96	
Haul	2,046	cy @	\$2.65	per cy =		\$5,421.90	
Shape and compact waste material Cutslope layback & Bank slough removal to	2,046	су @	\$0.35	per cy =		\$716.10	
Waste Area No. 3.							
Excavate & load	615	су @	\$2.04	per cy =		\$1,254.60	
Haul	800	cy @	\$2.63	per cy =		\$2,104.00	
Shape and compact waste material	800	cy @	\$0.35	per cy =		\$280.00	
French Drain waste material end-haul to							
Waste Area No. 1.	450		#0 <b>77</b>			¢400.40	
Excavate & load	156	cy @	\$2.77 \$2.44	per cy =		\$432.12 \$405.32	
Haul Compact waste area	203 203	cy @ cy @	\$2.44 \$0.35	per cy = per cy =		\$495.32 \$71.05	
Geotextile	203 596	sqr yd@	\$0.33 \$5.40	per cy – per sqr yd =		\$3,218.40	
Construct settling ponds, end-haul waste to	000	04. Jue	<b>\$</b> 0.10	por oq. ya		\$0,210110	
Waste Area No.1.	27	ea @	\$27.50	per ea =		\$742.50	
Haul waste material	35	су @	\$2.38	per cy =		\$83.30	
Shape and compact waste material	35	су @	\$0.35	per cy =		\$12.25	
Construct settling ponds, end-haul waste to	45		<b>*</b> 07 F0			<b>\$440.50</b>	
Waste Area No. 2. Haul waste material	15 20	ea @ cy @	\$27.50 \$1.70	per ea = per cy =		\$412.50 \$34.00	
Shape and compact waste material	20	cy @	\$0.35	per cy =		\$34.00 \$7.00	
Construct settling ponds, end-haul waste to	_0	-, w	<b>40.00</b>	- 2. 07		<i></i>	
Waste Area No. 3.	6	ea @	\$27.50	per ea =		\$165.00	
Haul waste material	8	cy @	\$1.65	per cy =		\$13.20	
Shape and compact waste material	8	cy @	\$0.35	per cy =		\$2.80	
Construct drivable waterbar	1	ea @	\$30.25 \$36.30	per ea =		\$30.25 \$1.270.50	
Improve turnout	35 4	ea @	\$36.30 \$181.50	per ea =		\$1,270.50 \$726.00	
Construct roadside landing Excavate, place and & compact fill	4 360	ea @ cy @	\$181.50 \$4.54	per ea = per cy =		\$726.00 \$1,634.40	
Improve roadside landing	2	ea@	\$4.54 \$90.75	per cy = per ea =		\$1,634.40 \$181.50	
		sta @	\$39.65	per sta =		\$10,422.00	
Grade, ditch, & roll	262.85	sia (w		por sta –			

		SUM	MARY OF (	CONSTRU	CTION COST			
	Timber Sale:		Wolf's End	d	_	Sale Number:	FG-341-2025	5-W00951-01
	Road Segment:	B t	o C Contin	ued.	_	Improvement:	262+85	stations
CULVERTS						-	4.98	miles
Culverts and Bands								
18" Diameter		960	lf @	\$22.05	per If =		\$21,168.00	
24" Diameter		390	lf @	\$31.90	per If =		\$12,441.00	
30" Diameter		40	lf @	\$42.95	per If =		\$1,718.00	
Half Rounds								
30"		120	lf @	\$30.00	per If =		\$3,600.00	
Markers & Stakes								
Culvert markers		57	ea @	\$12.00	per ea =		\$684.00	
Half round stakes		16	ea @	\$12.00	per ea =		\$192.00	
Additional Installation Cost								
Repair culvert inlet		1	hrs @	\$192.50	per hr =		\$192.50	
Trim culvert outlet		0.5	hrs @	\$192.50	per hr =	_	\$96.25	
						TOTAL CULVE	RT COSTS =	\$40,091.75

Subgrade rock Bedding and backfill

Energy dissipator

French drain

Base Haul Cost Rock Placement/ Total CY Rock Cost Size Cost \$/cy \$/cy Processing Cost \$/cy 1½" - 0 \$1.60 \$31.62 \$0.55 1,032 \$34,850.64 Riprap \$13.23 \$10.55 \$1.75 360 \$9,190.80 Riprap \$13.23 \$10.55 \$1.75 156 \$3,982.68

				Subtotal =	1,548	\$48,024.12
Surfacing rock						
Surfacing rock	Jaw-run	\$17.40	\$10.55	\$1.35	2,540	\$74,422.00
Junction	Jaw-run	\$17.40	\$10.55	\$1.35	36	\$1,054.80
Turnout	Jaw-run	\$17.40	\$10.55	\$1.35	490	\$14,357.00
Roadside landing (Improve)	Jaw-run	\$17.40	\$10.55	\$1.35	94	\$2,754.20
Roadside landing (Construct)	Jaw-run	\$17.40	\$10.55	\$1.35	380	\$11,134.00
				Subtotal =	3,540	\$103,722.00

Totals	All Rock =	5,088
	11⁄2" - 0	1,032
	Jaw-run	3,540
	Riprap	516

#### TOTAL ROCK COSTS = \$151,746.12

EROSION CONTROL					
Grass seed & fertilizer	3.02	ac @	\$697.50	per ac =	\$2,106.00
Straw mulch acre	0.80	ac @	\$990.00	per ac =	\$792.00
Straw mulch bale	70	ea @	\$11.00	per ea =	\$770.00
		-			

TOTAL EROSION CONTROL COSTS = \$3,668.00

**TOTAL PROJECT COST =** \$243,360.78

Timber Sale:	-	/ARY OF ( Wolf's En		TION COST	la Numbari	FC 244 202	5-W00951-01
		D to E	u	-			
Road Segment:		DIOE		- Im	provement:	<u>29+90</u> 0.57	stations miles
						0.07	1111103
PROJECT NO. 1: ROAD IMPROVEMENT							
IMPROVEMENT	_						
Clearing & grubbing (scatter)	0.35	ac @	\$1,692.00	per acre =		\$592.00	
Roadside brushing	0.57	mi @	\$1,550.00	per mi =		\$883.50	
Construct settling ponds, end-haul waste to							
Waste Area No. 3	3	ea @	\$27.50	per ea =		\$82.50	
Haul waste material	4	cy @	\$0.93	per cy =		\$3.72	
Shape and compact waste material	4	cy @	\$0.35	per cy =		\$1.40	
Construct roadside landing	3	ea @	\$181.50	per ea =		\$544.50	
Improve landing	1	ea @	\$121.00	per ea =		\$121.00	
Grade, ditch, & roll	29.90	sta @	\$39.65	per sta =		\$1,185.54	
				TOTAL IMP	PROVEMEN	IT COSTS =	\$3,414.16
CULVERTS				<u> </u>			<i>+-,</i>
Markers & Stakes	-						
Culvert markers	1	ea @	\$12.00	per ea =		\$12.00	
		0	,	•		RT COSTS =	\$12.00
ROCK	_			<u>101/</u>		<u> </u>	ψ12.00
	Rock	Base	Haul Cost		Total CY	Rock Cost	
	Size	Cost \$/cy	\$/cy	Processing Cost \$/cy			
Surfacing rock							
Surfacing rock	Jaw-run	\$17.40	\$1.42	\$1.35	927	\$18,697.59	
Roadside landing	Jaw-run	\$17.40	\$1.42	\$1.35	285	\$5,748.45	
Landing	Jaw-run	\$17.40	\$1.42	\$1.35	47	\$947.99	
				Subtotal	= 1,259	\$25,394.03	
			Totals	All Rock =	= 1,259	1	
			TULAIS	Jaw-ru	,		
				Jaw-Iu	1,209	l	
				Т	OTAL ROC	<u> K COSTS =</u>	\$25,394.03
EROSION CONTROL				-			
Grass seed & fertilizer	0.35	ac @	\$697.50	per ac =		\$244.13	
	0.55	au	ψυστ.30	per ac -		ψ244.13	
				TOTAL EROSIO		DL COSTS =	\$244.13

TOTAL EROSION CONTROL COSTS = \$244.13

**TOTAL PROJECT COST =** \$29,064.32

	SUMM	ARY OF C	ONSTRUC	TION COST			
Timber Sale:		Wolf's En	d	_	Sale Number:	FG-341-202	5-W00951-01
Road Segment:		F to G		_	Improvement:		stations
				_		0.20	miles
PROJECT NO. 1: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.13	ac @	\$1,692.00	per acre =		\$219.96	
Improve roadside landing	1	ea @	\$90.75	per ea =		\$90.75	
Improve landing	1	ea @	\$121.00	per ea =		\$121.00	
Grade, ditch, & roll	10.80	sta @	\$39.65	per sta =		\$428.22	
				ΤΟΤΑΙ	. IMPROVEMEN	T COSTS =	\$859.93
CULVERTS							<i><i><i></i></i></i>
Culverts and Bands	-						
18" Diameter	40	lf @	\$22.05	per If =		\$882.00	
Markers & Stakes		Ŭ	,	•		•	
Culvert markers	1	ea @	\$12.00	per ea =		\$12.00	
		Ŭ	,	•	OTAL CULVER		\$894.00
ROCK				<u>-</u>		100010-	φ00+.00
		1	1	1			
	Rock	Base	Haul Cost	Placement			
	Size	Cost \$/cy	\$/cy	Processing Cos	st \$/cy	Rock Cost	
Subgrade rock							
Bedding and backfill	11⁄2" - 0	\$1.60	\$26.69	\$0.55	24	\$692.16	
				Sub	total = 24	\$692.16	
Surfacing rock	]						
Surfacing rock	Pit-run	\$7.71	\$0.92	\$1.35	350	\$3,493.00	
Junction	Pit-run	\$7.71	\$0.92	\$1.35	24	\$239.52	
Roadside landing	Pit-run	\$7.71	\$0.92	\$1.35	47	\$469.06	
Landing	Pit-run	\$7.71	\$0.92	\$1.35	47	\$469.06	
				Sub	ototal = 468	\$4,670.64	
						•	
			Totals		lock = 492	1	
					1⁄2" - 0 24	4	
					Pit-run 468		
					TOTAL ROC	K COSTS =	\$5,362.80
						<u></u>	ψ0,002.00
EROSION CONTROL	0.40		¢607 50			¢00.00	
Grass seed & fertilizer	0.13	ac @	\$697.50	per ac =		\$90.68	
				TOTAL ERC	SION CONTRO	L COSTS =	\$90.68
						· · · · · · · · · · · · · · · · · · ·	

TOTAL PROJECT COST = \$7,207.41

IMPROVEMENT       0.06       ac @ \$1,692.00 per acre =       \$101.52         Roadside brushing       0.09       mi @ \$1,550.00 per mi =       \$139.50         Approach to landing       1.15       sta @ \$866.00 per sta =       \$995.90         Improve landing       2       ea @ \$121.00 per ea =       \$242.00         Grade, ditch, & roll       4.75       sta @ \$39.65 per sta =       \$188.34         CULVERTS       TOTAL IMPROVEMENT COSTS =       \$1,667.26         Culverts and Bands       30       If @ \$22.05 per lf =       \$661.50         Markers & Stakes       1       ea @ \$12.00 per ea =       \$12.00         Culvert markers       1       ea @ \$12.00 per ea =       \$12.00         TOTAL CULVERT COSTS =       \$673.50		-			TION COST				
0.09 miles <b>PROJECT NO. 1: ROAD IMPROVEMENT</b> IMPROVEMENT(Deraing & quicebing (scatter)Roadside brushing0.09mi @ \$1,550.00 per mi =\$139.50Roadside brushing1.15sta @ \$866.00 per sta =\$2995.90Improve landing2ea @ \$121.00 per ea =\$242.00Grade, ditch, & roll4.75sta @ \$39.65 per sta =\$186.34TOTAL IMPROVEMENT COSTS = \$1,667.26CUIVERTSCUIVERTSTOTAL IMPROVEMENT COSTS = \$1,667.26CUIVERTSCUIVERTSTOTAL CULVERT COSTS = \$1,667.26CUIVERTSCUIVERT STOTAL CULVERT COSTS = \$1,667.26CUIVERT COSTS = \$1,667.26CUIVERT STOTAL CULVERT COSTS = \$1,667.26CUIVERTSCOLVERTSCUIVERTSTOTAL CULVERT COSTS = \$1,667.26CUIVERT S1 ea @ \$12.00 per ea =StatesCUIVERT COSTS = \$673.50ROCKSubtotal = 24Subtotal = 24<				d	-				
Image: Second S	Road Segment		H to I		-	Impr	ovement:		
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$								0.09	miles
Clearing & grubbing (scatter) 0.06 ac @ \$1,992.00 per acre = \$101.52 Roadside brushing 0.09 mi @ \$1,550.00 per mi = \$139.50 Approach to landing 1.15 sta @ \$366.00 per sta = \$995.90 EROSION CONTROL EROSION	PROJECT NO. 1: ROAD IMPROVEMENT								
Readside brushing Approach to landing       0.09       mi @ \$1,550.00 per mi = \$199.500         Approach to landing       1.15       sta @ \$866.00 per sta = \$995.90         Grade, ditch, & roll       4.75       sta @ \$39.65 per sta = \$188.34         CULVERTS	IMPROVEMENT								
Readside brushing Approach to landing       0.09       mi @ \$1,550.00 per mi = \$199.500         Approach to landing       1.15       sta @ \$866.00 per sta = \$995.90         Grade, ditch, & roll       4.75       sta @ \$39.65 per sta = \$188.34         CULVERTS	Clearing & grubbing (scatter)	0.06	ac @	\$1,692.00	per acre =			\$101.52	
Approach to landing improve landing1.15 2sta $\widehat{@}$ \$866.00 \$866.00 per sta =\$995.90 \$242.00 per ea =Grade, dich, & roll4.75sta $\widehat{@}$ \$39.65 per sta =\$242.00 \$188.34TOTAL IMPROVEMENT COSTS = \$188.34\$188.34TOTAL CULVERT COSTS = \$12.00\$160\$22.05 per If =\$661.50TOTAL CULVERT COSTS = \$12.00\$12.00 TOTAL CULVERT COSTS = \$673.50Rock Subgrade rockBedding and backfill1/½" - 0\$1.60\$26.31\$0.55 Subtotal =24\$683.04Subtotal =\$24\$683.04\$\$24\$80\$\$25 \$\$2.05\$\$24\$\$25 \$\$2.00\$\$24 \$\$2.00\$\$25 \$\$2.00\$\$25 \$\$2.115\$\$2.	Roadside brushing	0.09	mi @	\$1,550.00	per mi =			\$139.50	
Grade, ditch, & roll4.75sta @\$39.65per sta = $$188.34$ CULVERTSCULVERTSCULVERTSCulverts and Bands 18" Diameter18" Diameter30If @\$22.05per If =\$661.50Markers & Stakes Culvert markers1ea @\$12.00per ea =\$12.00TOTAL CULVERT COSTS =\$673.50ROCKNote: Cost \$(c)\$(c)Piacement/ Processing Cost \$(c)Total CY Rock CostSubgrade rock Bedding and backfillSuffacing rockSurfacing rockPit-run\$7.71\$0.86\$1.35147\$1,458.24JunctionPit-run \$7.71\$0.86\$1.3524\$683.04Subtotal = 24\$683.04Surfacing rockPit-run \$7.71\$0.86\$1.3536\$357.12JunctionPit-run \$7.71\$0.86\$1.3536\$357.12LandingPit-run \$7.71\$0.86\$1.3594\$932.48Subtotal = 301\$2,985.92Totals $All Rock = 325$ 1½" - 024\$68.96TOTAL ROCK COSTS = \$3,668.96COSION CONTROLCost @\$697.50per ac =\$41.85TOTAL EROSION CONTROL COSTS = \$41.85	Approach to landing	1.15						\$995.90	
Grade, ditch, & roll4.75sta @\$39.65per sta = $$188.34$ CULVERTSCULVERTSCULVERTSCulverts and Bands 18" Diameter18" Diameter30If @\$22.05per If =\$661.50Markers & Stakes Culvert markers1ea @\$12.00per ea =\$12.00TOTAL CULVERT COSTS =\$673.50ROCKNote: Cost \$(c)\$(c)Piacement/ Processing Cost \$(c)Total CY Rock CostSubgrade rock Bedding and backfillSuffacing rockSurfacing rockPit-run\$7.71\$0.86\$1.35147\$1,458.24JunctionPit-run \$7.71\$0.86\$1.3524\$683.04Subtotal = 24\$683.04Surfacing rockPit-run \$7.71\$0.86\$1.3536\$357.12JunctionPit-run \$7.71\$0.86\$1.3536\$357.12LandingPit-run \$7.71\$0.86\$1.3594\$932.48Subtotal = 301\$2,985.92Totals $All Rock = 325$ 1½" - 024\$68.96TOTAL ROCK COSTS = \$3,668.96COSION CONTROLCost @\$697.50per ac =\$41.85TOTAL EROSION CONTROL COSTS = \$41.85	Improve landing	2	ea @	\$121.00	per ea =			\$242.00	
CULVERTS Culverts and Bands 18" Diameter30If @\$22.05per If =\$661.50Markers & Stakes Culvert markers1ea @\$12.00per ea =\$12.00TOTAL CULVERT COSTS =\$673.50ROCKRockBase SizeHaul Cost Cost \$/cyPlacement/ Processing Cost \$/cyTotal CY Rock CostSubgrade rockBedding and backfill1½" - 0\$1.60\$26.31\$0.5524\$683.04Subgrade rockBudding rock9it-run\$7.71\$0.86\$1.35147\$1,458.24Subtatal grock9it-run\$7.71\$0.86\$1.3524\$238.08Approach to landingPit-run\$7.71\$0.86\$1.3524\$238.08Approach to landingPit-run\$7.71\$0.86\$1.3594\$932.48Subbotal = 301\$2,985.92TotalAll Rock costs = \$1.75\$3,668.96Cost \$0per ac = \$41.85Cost Cost \$Cost Sing Cost \$1.350.06ac @ \$697.50Protect Cost \$Cost \$1.60Subtotal = 301\$2,668.96Cost \$1.95Cost \$1.95Cost \$1.95Cost \$1.95Cost \$1.35Cost \$1.25	Grade, ditch, & roll	4.75						\$188.34	
Culverts and Bands 18" Diameter       30       If @ \$22.05 per If =       \$661.50         Markers & Stakes Culvert markers       1       ea @ \$12.00 per ea = <u>\$12.00 TOTAL CULVERT COSTS = \$673.50</u> ROCK         Rock Base Cost \$/cy       Placement/       Total CY       Rock Cost         Bedding and backfill       1½" - 0       \$1.60       \$26.31       \$0.55       24       \$683.04         Subgrade rock         Bedding and backfill       1½" - 0       \$1.60       \$26.31       \$0.55       24       \$683.04         Subgrade rock         Bedding and backfill       1½" - 0       \$1.60       \$26.31       \$0.55       24       \$683.04         Surfacing rock					ΤΟΤΑΙ			T COSTS =	\$1,667.26
18" Diameter       30       If @ \$22.05 per If =       \$661.50         Markers & Stakes Culvert markers       1       ea @ \$12.00 per ea =       \$12.00 TOTAL CULVERT COSTS = \$673.50         ROCK         Rock Base Haul Cost Placement/ Size Cost \$/cy       Placement/ \$/cy       Total CY Rock Cost         Subgrade rock       Bedding and backfill       1½" - 0       \$1.60       \$26.31       \$0.55       24       \$683.04         Surfacing rock       Base       Base       Subtotal =       24       \$683.04         Surfacing rock       Pit-run \$7.71       \$0.86       \$1.35       147       \$1,458.24         Junction       Pit-run \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run \$7.71       \$0.86       \$1.35       36       \$357.12         Subtotal =       301       \$2,985.92       Subtotal = 301       \$2,985.92         Total         Colspan="2">Colspan= 2       \$41.85         Colspan= 2       \$41.85         Total       Colspan= 2       \$3,668.96         Colspan= 2       \$41.85	CULVERTS								
Markers & Stakes Culvert markers 1 ea @ \$12.00 per ea = $\underline{$12.00}$ TOTAL CULVERT COSTS = $\underline{$673.50}$ ROCK Subgrade rock Base thaul Cost \$/cy Processing Cost \$/cy Total CY Rock Cost Processing Cost \$/cy Total CY Rock Cost Suffacing rock Surfacing rock Subtotal = 301 Subtotal =	Culverts and Bands	-							
Culver markers       1       ea @ \$12.00 per ea =       \$12.00 rotal culvert costs =       \$673.50         ROCK         Rock Base Cost \$/cy Placement/ Processing Cost \$/cy Total CY Rock Cost         Subgrade rock       Placement/ Processing Cost \$/cy Total CY Rock Cost         Bedding and backfill       1/½" - 0 \$1.60 \$26.31 \$0.55 24 \$683.04         Surfacing rock       Surfacing rock         Surfacing rock       Pit-run \$7.71 \$0.86 \$1.35 147 \$1,458.24         Approach to landing       Pit-run \$7.71 \$0.86 \$1.35 36 \$357.12         Landing       Pit-run \$7.71 \$0.86 \$1.35 94 \$932.48         Subtotal = 301 \$2,985.92         Totals         Distracting cock       Suffacing rock \$1.35 94 \$932.48         Surfacing rock       Pit-run \$7.71 \$0.86 \$1.35 94 \$932.48         Subtotal = 301 \$2,985.92       Subtotal = 301 \$2,985.92         Totals         District       1½" - 0 24         Pit-run 301       Subtotal = \$25         11/2" - 0 24       Pit-run 301         Suffacing cock costs =       \$3,668.96         Subtotal = \$0.0 ac @ \$697.50       per ac = \$41.85         Cost ac @ \$697.50       per ac = \$41.85         Total EROSION CONTROL COSTS = \$41.85	18" Diameter	30	lf @	\$22.05	per If =			\$661.50	
$\frac{\text{TOTAL CULVERT COSTS} = \text{ $673.50}}{\text{TOTAL CULVERT COSTS}}$ $\frac{\text{Rock}}{\text{Size}} \frac{\text{Base}}{\text{Cost} \text{$/cy}} \frac{\text{Haul Cost}}{\text{Processing Cost} \text{$/cy}} \frac{\text{Total CY}}{\text{Rock Cost}}$ $\frac{\text{Subgrade rock}}{\text{Bedding and backfill}}$ $\frac{\text{Subgrade rock}}{\text{Surfacing rock}}$ $\frac{\text{Surfacing rock}}{\text{Surfacing rock}}$ $\text$	Markers & Stakes		_						
ROCKRock SizeBase Cost \$/cyHaul Cost \$/cyPlacement/ Processing Cost \$/cyTotal CY Rock CostSubgrade rock Bedding and backfill1½" - 0\$1.60\$26.31\$0.5524\$683.04Surfacing rock Surfacing rockPit-run Pit-run\$7.71\$0.86\$1.35147\$1.458.24Junction Approach to landing LandingPit-run Pit-run\$7.71\$0.86\$1.3536\$357.12LandingPit-run Pit-run\$7.71\$0.86\$1.3536\$357.12LandingPit-run Pit-run\$7.71\$0.86\$1.3536\$357.12LandingPit-run Pit-run\$7.71\$0.86\$1.3536\$357.12LandingPit-run Pit-run\$7.71\$0.86\$1.3536\$357.12EROSION CONTROL Grass seed & fertilizer0.06ac @\$697.50per ac =\$41.85TOTAL EROSION CONTROL COSTS =\$41.85	Culvert markers	1	ea @	\$12.00	per ea =			\$12.00	
Rock SizeBase Cost \$/cyHaul Cost \$/cyPlacement/ Processing Cost \$/cyTotal CY Rock CostSubgrade rock					-	TOTAL	CULVER	T COSTS =	\$673.50
SizeCost \$/cy\$/cyProcessing Cost \$/cyTotal CYRock CostSubgrade rockBedding and backfill $1\frac{1}{12}^{*} - 0$ \$1.60\$26.31\$0.5524\$683.04Surfacing rockSurfacing rockPit-run\$7.71\$0.86\$1.35147\$1,458.24JunctionPit-run\$7.71\$0.86\$1.3524\$238.08Approach to landingPit-run\$7.71\$0.86\$1.3594\$932.48LandingPit-run\$7.71\$0.86\$1.3594\$932.48Subtotal =301\$2,985.92Subtotal =301\$2,985.92TotalsEROSION CONTROLGrass seed & fertilizer0.06ac @\$697.50per ac =\$41.85TOTAL EROSION CONTROL COSTS =\$41.85	ROCK	_			-				
SizeCost \$/cy\$/cyProcessing Cost \$/cyTotal CYRock CostSubgrade rockBedding and backfill $1\frac{1}{12}^{*} - 0$ \$1.60\$26.31\$0.5524\$683.04Surfacing rockSurfacing rockPit-run\$7.71\$0.86\$1.35147\$1,458.24JunctionPit-run\$7.71\$0.86\$1.3524\$238.08Approach to landingPit-run\$7.71\$0.86\$1.3594\$932.48LandingPit-run\$7.71\$0.86\$1.3594\$932.48Subtotal =301\$2,985.92Subtotal =301\$2,985.92TotalsEROSION CONTROLGrass seed & fertilizer0.06ac @\$697.50per ac =\$41.85TOTAL EROSION CONTROL COSTS =\$41.85		Rock	Base	Haul Cost	Placemen	t/			
Subgrade rock         Image: second sec				-		-	Total CY	Rock Cost	
Bedding and backfill       1½" - 0       \$1.60       \$26.31       \$0.55       24       \$683.04         Surfacing rock       Subtotal = 24       \$683.04         Surfacing rock       Pit-run       \$7.71       \$0.86       \$1.35       147       \$1,458.24         Junction       Pit-run       \$7.71       \$0.86       \$1.35       24       \$238.08         Approach to landing       Pit-run       \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run       \$7.71       \$0.86       \$1.35       94       \$932.48         Totals         All Rock =       325         1½" - 0       24       Pit-run       301       \$2,985.92         Totals         All Rock =       325       1½" - 0       24         Pit-run       301       \$2,985.92       \$301       \$2,985.92         Totals       All Rock =       325         1½" - 0       24       \$1,608       \$1,35       \$4       \$3,668.96         EROSION CONTROL       Grass seed & fertilizer       0.06       ac @       \$697.50       per ac =       \$41.85         TOTAL EROSION CONTROL COSTS =	Subgrade rock	-	. ,	. ,	<u> </u>	. ,			
Surfacing rock       Pit-run       \$7.71       \$0.86       \$1.35       147       \$1,458.24         Junction       Pit-run       \$7.71       \$0.86       \$1.35       24       \$238.08         Approach to landing       Pit-run       \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run       \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run       \$7.71       \$0.86       \$1.35       94       \$932.48         Subtotal =       301       \$2,985.92       Subtotal =       301       \$2,985.92         Totals         All Rock =       325         1½" - 0       24       \$3,668.96         EROSION CONTROL       Grass seed & fertilizer       0.06       ac @       \$697.50       per ac =       \$41.85         TOTAL EROSION CONTROL COSTS = \$41.85		11/2" - 0	\$1.60	\$26.31	\$0.55		24	\$683.04	
Surfacing rock         Pit-run         \$7.71         \$0.86         \$1.35         147         \$1,458.24           Junction         Pit-run         \$7.71         \$0.86         \$1.35         24         \$238.08           Approach to landing         Pit-run         \$7.71         \$0.86         \$1.35         36         \$357.12           Landing         Pit-run         \$7.71         \$0.86         \$1.35         36         \$357.12           Landing         Pit-run         \$7.71         \$0.86         \$1.35         94         \$932.48           Subtotal =         301         \$2,985.92         Subtotal =         301         \$2,985.92           Totals         All Rock =         325         1½" - 0         24           Pit-run         301         \$2,985.92         \$3,668.96           EROSION CONTROL         Grass seed & fertilizer         0.06         ac @         \$697.50         per ac =         \$41.85           Grass seed & fertilizer         0.06         ac @         \$697.50         per ac =         \$41.85		1/2 - 0	φ1.00	Ψ20.01		ototal =			
Surfacing rock         Pit-run         \$7.71         \$0.86         \$1.35         147         \$1,458.24           Junction         Pit-run         \$7.71         \$0.86         \$1.35         24         \$238.08           Approach to landing         Pit-run         \$7.71         \$0.86         \$1.35         36         \$357.12           Landing         Pit-run         \$7.71         \$0.86         \$1.35         36         \$357.12           Landing         Pit-run         \$7.71         \$0.86         \$1.35         94         \$932.48           Subtotal =         301         \$2,985.92         \$2085.92         \$301         \$2,985.92           Totals         All Rock =         325         \$1½" - 0         24           Pit-run         301         \$2,985.92         \$301         \$2,985.92           Totals         All Rock =         325         \$301         \$2,985.92           EROSION CONTROL         0.06         ac @         \$697.50         per ac =         \$3,668.96           Grass seed & fertilizer         0.06         ac @         \$697.50         per ac =         \$41.85           TOTAL EROSION CONTROL COSTS =         \$41.85         \$41.85         \$41.85         \$41.85  <	Surfacing rock	1			Cur		<b>2</b> 7	φ000.04	
Junction       Pit-run       \$7.71       \$0.86       \$1.35       24       \$238.08         Approach to landing       Pit-run       \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run       \$7.71       \$0.86       \$1.35       94       \$932.48         Subtotal =       301       \$2,985.92         Totals       All Rock =       325         1½" - 0       24         Pit-run       301         \$2,985.92       Totals         Image: Control State       Subtotal =         301       \$2,985.92         Totals       All Rock =         1½" - 0       24         Pit-run       301         \$2,985.92       \$301         Totals       Totals         Image: Control State       \$3,668.96         EROSION CONTROL       0.06       ac @       \$697.50       per ac =       \$41.85         Grass seed & fertilizer       0.06       ac @       \$697.50       per ac =       \$41.85         TOTAL EROSION CONTROL COSTS =       \$41.85       \$41.85       \$41.85		Pit-run	\$7 71	\$0.86	\$1.35		147	\$1 458 24	
Approach to landing       Pit-run       \$7.71       \$0.86       \$1.35       36       \$357.12         Landing       Pit-run       \$7.71       \$0.86       \$1.35       94       \$932.48         Subtotal =       301       \$2,985.92         Totals       All Rock =       325 $11/2" - 0$ 24         Pit-run       301         Subtotal =       301         Subtotal =       301         \$2,985.92       \$1.35         Totals       All Rock = $11/2" - 0$ 24         Pit-run       301         Subtotal =       \$301         \$2,985.92       \$31         Totals       All Rock = $11/2" - 0$ 24         Pit-run       301         Subtotal =       \$301         Subtotal									
Landing         Pit-run         \$7.71         \$0.86         \$1.35         94         \$932.48           Subtotal =         301         \$2,985.92           Totals         All Rock =         325           1½" - 0         24           Pit-run         301           1½" - 0         24           Pit-run         301           Totals           All Rock =         325           1½" - 0         24           Pit-run         301           TOTAL ROCK COSTS =           \$3,668.96           EROSION CONTROL         0.06           Grass seed & fertilizer         0.06           0.06         ac @           \$697.50         per ac =           \$41.85           TOTAL EROSION CONTROL COSTS =           \$41.85									
Subtotal =       301       \$2,985.92         Totals       All Rock =       325         1½" - 0       24         Pit-run       301         TOTAL ROCK COSTS =         \$3,668.96         EROSION CONTROL         Grass seed & fertilizer       0.06       ac @       \$697.50       per ac =       \$41.85         TOTAL EROSION CONTROL COSTS =       \$41.85									
Totals       All Rock = 325         1½" - 0       24         Pit-run       301         TOTAL ROCK COSTS = \$3,668.96         EROSION CONTROL         Grass seed & fertilizer       0.06       ac @ \$697.50       per ac =\$41.85         TOTAL EROSION CONTROL COSTS = \$41.85	5			,	Sub	ototal =	301		
1½" - 0         24           Pit-run         301           TOTAL ROCK COSTS = \$3,668.96           Grass seed & fertilizer           0.06         ac @         \$697.50         per ac =         \$41.85           TOTAL EROSION CONTROL COSTS = \$41.85									
Pit-run         301           TOTAL ROCK COSTS =         \$3,668.96           EROSION CONTROL         0.06         ac @         \$697.50         per ac =         \$41.85           Grass seed & fertilizer         0.06         ac @         \$697.50         per ac =         \$41.85           TOTAL EROSION CONTROL COSTS =         \$41.85         \$41.85         \$41.85				Totals	All F	Rock =	325		
<u>TOTAL ROCK COSTS = \$3,668.96</u> <u>EROSION CONTROL</u> Grass seed & fertilizer 0.06 ac @ \$697.50 per ac = <u>\$41.85</u> <u>TOTAL EROSION CONTROL COSTS = \$41.85</u>						11⁄2" - 0	24		
EROSION CONTROL         Grass seed & fertilizer         0.06       ac @ \$697.50         per ac =       \$41.85         TOTAL EROSION CONTROL COSTS =       \$41.85						Pit-run	301		
EROSION CONTROL         Grass seed & fertilizer         0.06       ac @ \$697.50         per ac =       \$41.85         TOTAL EROSION CONTROL COSTS =       \$41.85						тот			¢2 669 06
Grass seed & fertilizer 0.06 ac @ \$697.50 per ac = <u>\$41.85</u> TOTAL EROSION CONTROL COSTS = \$41.85						101		100313-	<b>\$3,000.90</b>
TOTAL EROSION CONTROL COSTS = \$41.85		- 0.06	ac @	\$697.50	per ac =			\$41.85	
		0.00		φ001.00	•				
<b>TOTAL PROJECT COST =</b> \$6,051.57					TOTAL ERC	DSION (	CONTRO	L COSTS =	\$41.85
TOTAL PROJECT COST = \$6,051.57									
						TOTA	PROJE	<u> CT COST =</u>	\$6,051.57

	SUMM	IARY OF C	ONSTRUC	TION COST			
Timber Sale:		Wolf's En	d	_	Sale Number:	FG-341-202	5-W00951-01
Road Segment:		J to K		_	Improvement:	12+50	stations
				_		0.24	miles
PROJECT NO. 1: ROAD IMPROVEMENT							
IMPROVEMENT							
Clearing & grubbing (scatter)	0.15	ac @	\$1,353.60	per acre =		\$203.04	
Clean culvert inlet & outlet, end-haul waste	1	ea @	\$27.50	per ea =		\$27.50	
Haul waste material	1	cy @	\$8.48	per cy =		\$8.48	
Shape and compact waste material	1	cy @	\$0.35	per cy =		\$0.35	
Improve roadside landing	1	ea @	\$90.75	per ea =		\$90.75	
Grade, ditch, & roll	12.50	sta @	\$39.65	per sta =		\$495.63	
				ΤΟΤΑΙ	. IMPROVEMEN	T COSTS =	\$825.75
CULVERTS							<i><b></b></i>
Markers & Stakes	-						
Culvert markers	1	ea @	\$12.00	per ea =		\$12.00	
		0	,	•	TOTAL CULVER		\$12.00
ROCK					OTTLE ODEVER		ψ12.00
	- r			1			
	Rock	Base	Haul Cost	Placement			
	Size	Cost \$/cy	\$/cy	Processing Cos	st \$/cy	Rock Cost	
Surfacing rock							
Surfacing rock	11/2" - 0	\$6.33	\$0.74	\$1.35	250	\$2,105.00	
Roadside landing	Pit-run	\$0.33 \$7.71	\$2.07	\$1.35	47	\$523.11	
Toduside landing	I IC-IUII	ψ1.11	ψ2.07	1	total = 297	\$2,628.11	
				0	201	φ2,020.11	
			Totals	All R	lock = 297	1	
					1/2" - 0 250	1	
					Pit-run 47	1	
					•	•	
					TOTAL ROC	K COSTS =	\$2,628.11
EROSION CONTROL						_	
Grass seed & fertilizer	0.15	ac @	\$697.50	per ac =		\$104.63	
Bio-bag	2	ea @	\$5.50	per ea =		\$11.00	
~		0	•				
				TOTAL ERC	SION CONTRO	L COSTS =	\$115.63

**TOTAL PROJECT COST =** \$3,581.49

#### SUMMARY OF CONSTRUCTION COST

 Timber Sale:
 Wolf's End
 Sale Number:
 FG-341-2025-W00951-01

Equipment	Total	
Brush Cutter	\$628.05	
Grader	\$656.60	
Roller (smooth/grid) & Compactor	\$628.05	
Excavator (Large) - Equipment Cleaning	\$2,213.36	
Dozer (Large) - Equipment Cleaning	\$2,213.36	
Dump Truck (10cy +)	\$565.40	
Water Truck (2,500 Gal)	\$518.14	
	TOTAL MOVE-IN COSTS = \$7,422.9	96

### QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

	Timber Sale: Sale Number: Stockpile Name:	FG-341-202	f's End 25-W00951-01 Camp	_	
	1 1/2" - 0: _ Total truck yardage: _	250 cy 250 cy	(truck meas 	ure)	
Move-in Move in loader Move in Dump True	cks			Subtotal = Per CY =	\$1,110.54 \$246.00 \$1,356.54 \$5.43/cy
<u>1 1/2"-0 Base Cost</u> Load dump truck	\$0.90	/ cy x	250	_cy = Subtotal = Per CY =	\$225.00 \$225.00 \$0.90

1 1/2"-0 Cost = \$6.33/cy

### QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sa Sale Numbe Stockpile Nam	er: FG-341-202	lf's End 25-W00951-01 reek Ridge	-	
- "1 1/2 Total truck yardag	,	(truck measu	ıre)	
Move-in	je. <u>1,000 cy</u>			
Move in loader				\$827.50
Move in Dump Trucks				\$102.38
			Subtotal =	\$929.88
			Per CY =	\$0.70/cy
1 1/2"-0 Base Cost				
Load dump truck \$0.90	/ cy x	1,330	_cy =	\$1,197.00
			Subtotal =	\$1,197.00
			Per CY =	\$0.90

**1 1/2"-0 Cost =** \$1.60/cy

### QUARRY DEVELOPMENT & CRUSHING COST SUMMARY

Timber Sale: Sale Number:		s End 5-W00951-01	-	
Quarry Name:		Grade	-	
Pit-run: Total truck yardage: Total in place yardage:	816 cy 816 cy 628 cy	_(truck measu _ _	re)	
Swell:	130%	_		
Compaction:	116%	_		
<u>Move-in &amp; Other Base Cost</u> Quarry development & overburden remov Move in excavator with cleaning Move in Dump Trucks Clean up quarry	/al		Subtotal =	\$1,592.50 \$1,746.67 \$270.00 \$500.00 \$4,109.17
Pit-run Base Cost			Per CY =	\$5.04/cy
Rip rock\$2.30Load dump truck\$0.90	/ cy x / cy x	628 816	_cy = _cy = _Subtotal = _Per CY =	\$1,444.40 \$734.40 \$2,178.80 \$2.67/cy

Pit-run Base Cost = \$7.71/cy

QUARRY DEVELOPMENT	T & CRUSHING COST SUM	MARY
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Sale	nber Sale: Number: rry Name:	FG-341-202	f's End 25-W00951-01 f's End		
4"-( Total truck Total in place		4,987 cy 516 cy 4,987 cy 4,795 cy	_(truck measu _(truck measu -	,	
	size - Pile: Swell: mpaction:	20% 130% 116%	- - -		
Move-in & Other Base Cost Quarry development & overbu Equipment cleaning & move in Equipment cleaning & move in Move in loader Move in & setup crusher Move in Dump Trucks Clean up quarry	n excavato			Subtotal = Per CY =	\$37,849.04 \$2,304.53 \$2,275.49 \$1,146.43 \$1,825.49 \$418.50 \$500.00 \$46,319.48
4"-0 Jaw-run Base Cost				Fel CI -	\$9.29/cy
Rip rock Oversize - Pile Load crusher Crush (Jaw-run) Load dump truck	\$3.95 \$0.80 \$0.90 \$2.31 \$0.90	/ cy x / cy x / cy x / cy x / cy x	4,795 1,247 4,987 4,987 4,987	_ cy = _ cy = _ cy = _ cy = _ cy = _ Subtotal = Per CY =	\$18,940.25 \$997.60 \$4,487.85 \$11,518.82 \$4,487.85 \$40,432.37 \$8.11/cy
Riprap Base Cost	_				
Rip rock Load dump truck	\$3.95 \$0.90	/ су x / су x	<u>397</u> 516	_cy = _cy = Subtotal = Per CY =	\$1,568.15 \$464.40 \$2,032.55 \$3.94/cy

**Riprap Base Cost =** \$13.23/cy **4"-0 Jaw-run Base Cost =** \$17.40/cy

### CRUISE REPORT Wolf's End #FG-341-2025-W00951-01

### 1. LOCATION:

Portions of Section 4, T2N, R6W, W.M., Washington County, Oregon.

### 2. CRUISE DESIGN:

The timber cruise was designed using an estimated coefficient of variation (CV) of 56%, average stand diameter of 18 inches, sampling error (SE) of 9% and a minimum of 100 grade trees.

### 3. SAMPLING METHOD:

The Timber Sale Area was cruised in January of 2025 with 37 variable radius grade plots using a 40 BAF prism. Plots were laid out 5 chain x 5 chain grid. Plots falling on or near existing roads or no-harvest areas were offset 1 chain.

### 4. CRUISE RESULTS:

168 trees were measured and graded producing a standard error of 6.8% on the Douglas-fir Basal Area and 7% on the Douglas-fir Net Board Foot Volume.

### 5. TREE MEASUREMENT AND GRADING:

All sample trees were measured and graded following the Official Log Scaling and Grading Rules as adopted by the NW Log Rules Advisory Group. 40 foot segments were favored.

- a) **Height Standards:** Total tree heights were measured to the nearest foot. Bole heights were calculated to a six inch top.
- b) **Diameter Standards:** Diameters were measured outside bark at breast height to the nearest inch.
- c) Form Factors: Measured for each grade tree using a form point of 16 feet.

### 6. DATA PROCESSING:

- a) **Volumes and Statistics:** Cruise estimates and sampling statistics were derived from SuperAce 2008 cruise software.
- b) **Deductions:** The following percent volume deductions are by species to account for the hidden defect and breakage. For conifers two percent was deducted.
- **7. CRUISERS:** The sale was cruised by Mark Savage, Adrian Torres, and Colton Turner.

Prepared by: Adrian Torres 03-27-2025

Reviewed by: Mark Savage 03-27-2025 Date

IC PSTATS					PR PR	PAGE DATE	1 1/16/2025					
WP RG	ΈE	SC	TRACT	,	ГҮРЕ		ACI	RES	PLOTS	TREES	CuFt	BdFt
T2N R6		04	U1	(	00CC			107.00	37	171	S	W
						TREES	1	ESTIMATED TOTAL		ERCENT SAMPLE		
		F	LOTS	TREES		PER PLOT		TREES		TREES		
TOTAL			37	171		4.6						
CRUISE DBH COUN REFOREST COUNT BLANKS 100 %			37	171		4.6		8,152		2.1		
					STAI	ND SUMM	ARY					
		SA	MPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
			REES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR			140	53.8	22.7	127	31.8	151.4	32,233	32,157	6,927	6,927
DOUG FIR-	-S		3	2.0	17.3	65	0.8	3.2				
WHEMLOC	CK		23	17.1	16.3	80	6.2	24.9	4,031	4,031	930	930
NOB FIR			3	.7	29.2	125	0.6	3.2	713	704	149	149
GR FIR TOTAL			2 171	2.5 76.2	12.5 21.1	68 113	0.6 40.3	2.2 184.9	408 <i>37,385</i>	408 <i>37,299</i>	79 8,085	79 8,085
CT (0												
CL 68.	.1		COEFF			SAMPLE	TREES -	BF	#	OF TREES R	EQ.	INF. POP.
CL 68. SD: 1.			VAR.%	S.E.%	L	W	AVG	HIGH	#	OF TREES R 5	EQ. 10	INF. POP.
	.0			S.E.% 4.6	L				#			
SD: 1. DOUG FIR	.0 -S		VAR.%		L	W	AVG	HIGH	#			
SD: 1. DOUG FIR DOUG FIR-	.0 -S		VAR.% 54.4	4.6	L	OW 717	AVG 752	HIGH 787	#			
SD: 1. DOUG FIR DOUG FIR WHEMLOC NOB FIR GR FIR	.0 -S		VAR.% 54.4 89.7	4.6 19.1	L	DW 717 368	AVG 752 454	HIGH 787 541	#			
SD: 1. DOUG FIR DOUG FIR- WHEMLOC NOB FIR	.0 -S		VAR.% 54.4 89.7 52.2	4.6 19.1 36.1	L	DW 717 368	AVG 752 454 1,133	HIGH 787 541 1,543	#			
SD: 1. DOUG FIR DOUG FIR- WHEMLOC NOB FIR GR FIR TOTAL	.0 S CK		VAR.% 54.4 89.7 52.2 137.7	4.6 19.1 36.1 129.0	L	DW 717 368 724 679	AVG 752 454 1,133 1,535	HIGH 787 541 1,543 3,515 750		5	10 43	1
SD: 1. DOUG FIR DOUG FIR- WHEMLOC NOB FIR GR FIR TOTAL	<u>0</u> -s ск		VAR.% 54.4 89.7 52.2 137.7 65.5	4.6 19.1 36.1 129.0		DW 717 368 724 679	AVG 752 454 1,133 1,535 715	HIGH 787 541 1,543 3,515 750		5	10 43	1 
SD: 1. DOUG FIR DOUG FIR- WHEMLOO NOB FIR GR FIR TOTAL CL 68. SD: 1. DOUG FIR	.0 .s .ck .1 .0		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF	4.6 19.1 36.1 129.0 5.0		DW 717 368 724 679 SAMPLE	AVG 752 454 1,133 1,535 715 <b>C TREES -</b>	HIGH 787 541 1,543 3,515 750 CF		5 <i>171</i> OF TREES R	10 43 EQ.	INF. POP.
SD: 1. DOUG FIR DOUG FIR- WHEMLOO NOB FIR GR FIR TOTAL CL 68. SD: 1. DOUG FIR DOUG FIR-	.0 -s -ck -1 -0 -s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9		DW           717           368           724           679           SAMPLE           DW           152	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158	HIGH 787 541 1,543 3,515 750 CF HIGH 165		5 <i>171</i> OF TREES R	10 43 EQ.	INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOO       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       DOUG FIR       WHEMLOOD	.0 -s -ck -1 -0 -s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2	4.6 19.1 36.1 129.0 5.0 <u>S.E.%</u> 3.9 17.3		DW           717           368           724           679           SAMPLE           DW           152           82	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158 99	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117		5 <i>171</i> OF TREES R	10 43 EQ.	INF. POP.
SD: 1. DOUG FIR DOUG FIR- WHEMLOO NOB FIR GR FIR TOTAL CL 68. SD: 1. DOUG FIR DOUG FIR-	.0 -s -ck -1 -0 -s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9		DW           717           368           724           679           SAMPLE           DW           152	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158	HIGH 787 541 1,543 3,515 750 CF HIGH 165		5 <i>171</i> OF TREES R	10 43 EQ.	INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR	.0 -s -ck -1 -0 -s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5		DW           717           368           724           679           SAMPLE           DW           152           82	AVG 752 454 1,133 1,535 715 <b>C TREES -</b> AVG 158 99 236	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308		5 <i>171</i> OF TREES R	10 43 EQ.	INF. POP.
SD: 1. DOUG FIR DOUG FIR WHEMLOO NOB FIR GR FIR TOTAL CL 68. SD: 1. DOUG FIR DOUG FIR UNDB FIR WHEMLOO NOB FIR GR FIR TOTAL	0S CK 1 0S CK		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6		DW           717           368           724           679           SAMPLE           DW           152           82           164           144	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158 99 236 291 151	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665	#	5 171 OF TREES R 5 131	10 43 EQ. 10 33	1 INF. POP. 1
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       DOUG FIR       NOB FIR       GR FIR	0 S CK 1 0 S S CK		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6	L	DW           717           368           724           679           SAMPLE           DW           152           82           164	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158 99 236 291 151	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665	#	5 171 OF TREES R 5	10 43 EQ. 10 33	INF. POP.
SD: 1, DOUG FIR DOUG FIR- WHEMLOC NOB FIR GR FIR TOT→L CL 68. SD: 1, DOUG FIR DOUG FIR UOUG FIR WHEMLOC NOB FIR GR FIR TOT→L CL 68.	0 S S C K 1 0 S C K 1 0		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF	4.6 19.1 36.1 129.0 5.0 <u>S.E.%</u> 3.9 17.3 30.5 128.6 4.4	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A	AVG 752 454 1,133 1,535 715 2 <b>TREES -</b> AVG 158 99 236 291 151 51	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 <i>157</i>	#	5 171 OF TREES R 5 131 OF PLOTS R	10 43 EQ. 10 33 EQ.	INF. POP. INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       DOUG FIR       OOUG FIR       CL     68.       SD:     1.       CL     68.       SD:     1.       OUUG FIR       DOUG FIR       OUUG FIR       DOUG FIR       DOUG FIR	0 s c k 1 0 s s c k 1 0 s s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.%	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.%	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A	AVG 752 454 1,133 1,535 715 <b>C TREES -</b> AVG 158 99 236 291 151 236 291 151	НІGH 787 541 1,543 3,515 750 СF НІGH 165 117 308 665 <i>157</i> НІGH	#	5 171 OF TREES R 5 131 OF PLOTS R	10 43 EQ. 10 33 EQ.	INF. POP. INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       OUG FIR       CL     68.       SD:     1.       CL     68.       SD:     1.       CL     68.       SD:     1.       DOUG FIR       ODUG FIR       ODUG FIR       DOUG FIR       DOUG FIR       DOUG FIR	0 s c k 1 0 s s c k 1 0 s s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A           DW           12	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 236 291 151 <b>CCRE</b> AVG 54 2 17	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22	#	5 171 OF TREES R 5 131 OF PLOTS R	10 43 EQ. 10 33 EQ.	INF. POP. INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       MHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       ODUG FIR       ODUG FIR       NOB FIR       NOB FIR       DOUG FIR       DOUG FIR       NOB FIR	0 s c k 1 0 s s c k 1 0 s s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A           DW           12           0	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 236 291 151 <b>CCRE</b> AVG 54 2 17 1	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1	#	5 171 OF TREES R 5 131 OF PLOTS R	10 43 EQ. 10 33 EQ.	INF. POP. INF. POP.
SD:     1.       DOUG FIR       DOUG FIR       WHEMLOC       NOB FIR       GR FIR       TOTAL       CL     68.       SD:     1.       DOUG FIR       DOUG FIR       OUG FIR       CL     68.       SD:     1.       CL     68.       SD:     1.       DOUG FIR       ODUG FIR       DOUG FIR       OUG FIR       OUG FIR       DOUG FIR       OUG FIR       GR FIR	0 s c k 1 0 s s c k 1 0 s s		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3 95.9	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A           DW           12           0           0	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 236 291 151 <b>CCRE</b> AVG 54 2 17 1 3	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5	#	5 171 OF TREES R 5 131 OF PLOTS R 5	10 43 EQ. 10 33 EQ. 10	1 INF. POP. 1 INF. POP. 1
SD: 1, DOUG FIR DOUG FIR WHEMLOC NOB FIR GR FIR TOTAL CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOTAL CL 68. SD: 1, DOUG FIR OUG FIR DOUG FIR DOUG FIR DOUG FIR DOUG FIR NOB FIR CL 68.	0 s c k 1 0 s c k		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3	L	DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A           DW           12           0           0           69	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 <b>CCRE</b> AVG 54 2 17 1 3 76	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123	10 43 EQ. 10 33 EQ. 10 31	1 INF. POP. 1 INF. POP. 1
SD: 1, DOUG FIR DOUG FIR WHEMLOC NOB FIR GR FIR TOT→ CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOT→ CL 68. SD: 1, DOUG FIR OUG FIR DOUG FIR DOUG FIR DOUG FIR OUG FIR MHEMLOC NOB FIR GR FIR TOT→L CL 68.	0 s c k 1 0 s s c k 1 0 s c k		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3 95.9 9.1		DW           717           368           724           679           SAMPLE           DW           152           82           164           144           TREES/A           DW           49           12           0           69           BASAL A	AVG 752 454 1,133 1,535 715 <b>TREES -</b> AVG 158 99 236 291 151 <b>XCRE</b> AVG 54 2 17 1 3 76 <b>XREA/ACE</b>	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 RE	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123 OF PLOTS R	10 43 EQ. 10 33 EQ. 10 31 EQ.	1 INF. POP. 1 INF. POP. 1 INF. POP.
SD: 1, DOUG FIR DOUG FIR WHEMLOC NOB FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR DOUG FIR DOUG FIR OUG FIR CL 68. SD: 1, CL 68.	0 s c k 1 0 s c k 1 0 s c k 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF VAR.%	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3 95.9 9.1 S.E.%		DW         717         368         724         679         SAMPLE         DW         152         82         164         144         TREES/A         DW         49         1         0         0         69         BASAL A	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 <b>CCRE</b> AVG 54 2 17 1 3 76 <b>CREA/ACH</b> AVG	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 82 HIGH	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123	10 43 EQ. 10 33 EQ. 10 31	1 INF. POP. 1 INF. POP. 1
SD: 1, DOUG FIR OUG FIR- WHEMLOC NOB FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR OUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR	0 s ck 1 0 s ck 1 0 s ck 1 0 s ck		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF VAR.% 41.4	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3 95.9 9.1 S.E.% 6.8		DW         717         368         724         679         SAMPLE         DW         152         82         164         144         TREES/A         DW         49         1         0         0         69         BASAL A         DW         141	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 <b>CCRE</b> AVG 54 2 17 1 3 76 <b>CREA/ACH</b> AVG 151	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 RE HIGH 162	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123 OF PLOTS R	10 43 EQ. 10 33 EQ. 10 31 EQ.	1 INF. POP. 1 INF. POP. 1 INF. POP.
SD: 1, DOUG FIR DOUG FIR- WHEMLOC NOB FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR DOUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR GR FIR TOT→↓	0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 c k 1 0 c k c k c k		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF VAR.% 41.4 341.3	4.6 19.1 36.1 129.0 5.0 <u>S.E.%</u> 3.9 17.3 30.5 128.6 4.4 <u>S.E.%</u> 8.6 56.5 28.6 58.3 95.9 9.1 <u>S.E.%</u> 6.8 56.1		DW         717         368         724         679         SAMPLE         DW         152         82         164         144         TREES/A         DW         49         1         0         0         69         BASAL A         DW         141         1	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 <b>CRE</b> AVG 54 2 17 1 3 76 <b>CRE</b> AVG 54 2 17 1 3 76 <b>CREA/ACH</b> AVG 151 3	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 22 1 5 83 RE HIGH 162 5	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123 OF PLOTS R	10 43 EQ. 10 33 EQ. 10 31 EQ.	1 INF. POP. 1 INF. POP. 1 INF. POP.
SD: 1, DOUG FIR OUG FIR- WHEMLOC NOB FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR OUG FIR OUG FIR GR FIR TOT→↓ CL 68. SD: 1, DOUG FIR	0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 c k 1 0 c k c k c k		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF VAR.% 41.4	4.6 19.1 36.1 129.0 5.0 S.E.% 3.9 17.3 30.5 128.6 4.4 S.E.% 8.6 56.5 28.6 58.3 95.9 9.1 S.E.% 6.8		DW         717         368         724         679         SAMPLE         DW         152         82         164         144         TREES/A         DW         49         1         0         0         69         BASAL A         DW         141	AVG 752 454 1,133 1,535 715 <b>CTREES -</b> AVG 158 99 236 291 151 <b>CCRE</b> AVG 54 2 17 1 3 76 <b>CREA/ACH</b> AVG 151	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 RE HIGH 162	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123 OF PLOTS R	10 43 EQ. 10 33 EQ. 10 31 EQ.	1 INF. POP. 1 INF. POP. 1 INF. POP.
SD: 1, DOUG FIR DOUG FIR- WHEMLOC NOB FIR GR FIR TOT→L CL 68. SD: 1, DOUG FIR DOUG FIR GR FIR TOT→L CL 68. SD: 1, DOUG FIR DOUG FIR GR FIR TOT→L CL 68. SD: 1, DOUG FIR GR FIR TOT→L CL 68. SD: 1, DOUG FIR OUG FIR GR FIR TOT→L	0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 s c k 1 0 c k 1 0 c k c k c k		VAR.% 54.4 89.7 52.2 137.7 65.5 COEFF VAR.% 46.1 81.2 44.1 137.3 57.3 COEFF VAR.% 52.2 343.7 174.4 355.0 583.7 55.5 COEFF VAR.% 41.4 341.3 133.3	4.6 19.1 36.1 129.0 5.0 <u>S.E.%</u> 3.9 17.3 30.5 128.6 4.4 <u>S.E.%</u> 8.6 56.5 28.6 58.3 95.9 9.1 <u>S.E.%</u> 6.8 56.1 21.9		DW         717         368         724         679         SAMPLE         DW         152         82         164         144         TREES/A         DW         49         1         0         69         BASAL A         DW         141         19	AVG 752 454 1,133 1,535 715 <b>TREES -</b> AVG 158 99 236 291 151 <b>XCRE</b> AVG 54 2 17 1 3 76 <b>XREA/ACH</b> AVG 151 3 25	HIGH 787 541 1,543 3,515 750 CF HIGH 165 117 308 665 157 HIGH 58 3 22 1 5 83 RE HIGH 162 5 30	#	5 171 OF TREES R 5 131 OF PLOTS R 5 123 OF PLOTS R	10 43 EQ. 10 33 EQ. 10 31 EQ.	1 INF. POP. 1 INF. POP. 1 INF. POP.

TC PSI	TATS				PROJECT PROJECT		<u>STICS</u> lfsend			PAGE DATE	<b>2</b> 1/16/2025
тwр	RGE	SC	TRACT	TYP	Έ	A	CRES	PLOTS	TREES	CuFt	BdFt
T2N	R6	04	U1	0000	2		107.00	37	17	1 S	W
CL	68.1		COEFF		NET B	F/ACRE			# OF PLOTS	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	1:
DOU DOU	G FIR G FIR-S		42.9	7.0	29,892	32,157	34,421				
WHE	MLOCK		138.5	22.7	3,114	4,031	4,947				
NOB	FIR		346.6	56.9	303	704	1,104				
GR F	IR		481.0	79.0	86	408	731				
TOT	AL		35.9	5.9	35,100	37,299	39,498		51	13	1
CL	68.1		COEFF		NET C	UFT FT/A	CRE		# OF PLOTS	REQ.	INF. POP.
SD:	1.0		VAR.%	S.E.%	LOW	AVG	HIGH		5	10	1
DOU	G FIR		41.5	6.8	6,455	6,927	7,398				
DOU	G FIR-S										
WHE	MLOCK		133.0	21.8	727	930	1,133				
NOB	FIR		343.0	56.3	65	149	233				
GR F	IR		472.7	77.6	18	79	141				
TOT	AL		32.1	5.3	7,659	8,085	8,511		41	10	

TC	TC PSPCSTGR Species, Sort Grade - Board Foot Volumes (Project)																			
TT	T2N RR6W S04 Ty00CC 107.00						Project: Acres							Page Date Time		1 16/202 :44:2	25			
			%					Per	cent of N	Net Boar	rd Foot	Volume					Aver	age Log	;	Logs
	S So G	Gr	Net	Bd. Ft.	per Acre		Total		Log Sca	ale Dia.			Log I	ength		Ln	Dia	Bd	CF/	Per
Spp	T rt	ad	BdFt	Def%	Gross	Net	Net MBF	4-5	6-11	12-16	17+	12-20	21-30	31-35	36-99	Ft	In	Ft	Lf	/Acre
WH		2М	63		2,553	2,553	273			44	56				100	40	16	416	2.09	6.1
WH		3М	28		1,142	1,142	122		100					22	78	38	8	86	0.62	13.3
WH		4M	9		335	335	36		100			10	25	35	31	27	6	43	0.49	7.7
wн	Totals		11		4,031	4,031	431		37	28	35	1	2	9	88	35	9	148	0.97	27.2
DF DF DF DF	:	CU 2M 3M 4M	80 16 4 86	.3	25,819 5,314 1,100	25,743 5,314 1,100	2,754 569 118		99 100	49 1 39	51	0 0 19	0 1 44	1 1 24	99 97 13	9 40 39 24	23 16 9 6	397 112 33	0.00 2.00 0.77 0.40	1.4 64.9 47.4 33.6
<u> </u>			80	.2	32,233	32,157	3,441		20	39	41	1	2	1	95	36		218	1.31	147.3
DF	S	CU														31	8		0.00	3.2
DF	Totals															31	8		0.00	3.2
GF GF GF		2M 3M 4M	71 5 24		292 18 98	292 18 98	31 2 10		100 100		100			100	100 100	40 40 31	28 11 6	1425 180 40	6.22 1.90 0.27	.2 .1 2.4
GF	Totals		1		408	408	44		29		71			24	76	32	8	148	0.90	2.8
NF NF NF		2M 3M 4M	89 9 2	1.0 5.1	638 62 13	632 59 13	68 6 1		100 100	8	92	100			100 100	40 40 16	18 9 6	584 123 24	2.89 1.06 0.47	1.1 .5 .5
NF	Totals		2	1.3	713	704	75		10	8	82	2			98	34	13	335	2.10	2.1
Tota	nls			0.2	37,385	37,299	3,991		22	37	41	1	2	3	94	36	11	204	1.24	182.6

TC	PSTNDSU	М				S	Stand 7	Table St	ummary				Page Date:	1 1/16/202	25
TT2N	RR6W SO	04 Ty00CC		107.	00		Project	t V	VOLFSEN	D			Time:	11:44:2	2AM
							Acres		107.0	0			Grown Year:		
S		Sample	FF	Tot Av	Trees/	BA/	Logs	Average Net	e Log Net	Tons/	Net Cu.Ft.	Net Bd.Ft.		Totals	
<b>Spc</b> Т	DBH	Trees	16'	Ht	Acre	Acre	Acre	Cu.Ft.	Bd.Ft.	Acre	Acre	Acre	Tons	Cunits	MBF
DF	9	1	85		2.447	1.08	2.45	6.8	30.0	.48	17	73	51	18	8
DF	13	1	89		1.173	1.08	2.35	18.2	90.0	1.22	43	211	130	46	23
DF DF	14 15	1 2	89 87	121 107	1.011 1.762	1.08 2.16	2.02 3.52	22.1 21.3	105.0 90.0	1.27 2.14	45 75	212 317	136 229	48 80	23 34
DF	16	2	87	116	1.549	2.16	3.10	26.1	112.5	2.30	81	348	246	86	37
DF	18	4	87	125	2.447	4.32	6.12	30.0	125.0	5.23	184	765	560	196	82
DF	19	6	88	119	3.294	6.49	8.79	30.2	124.4	7.57	266	1,093	810	284	117
DF	20	7	87	121	3.469	7.57	8.92	35.1	144.4	8.93	313	1,288	955	335	138
DF	21	10	88		4.495	10.81	12.58	35.8	157.9	12.86	451	1,987	1,376	483	213
DF	22 23	19 6	88 88	132 126	7.781 2.248	20.54 6.49	21.71 6.00	43.4 47.2	195.8 208.8	26.87 8.06	943 283	4,251 1,251	2,875 862	1,009 303	455 134
DF DF	23 24	21	88	120	7.227	22.70	20.99	47.2	208.8	29.52	1,036	4,677	3,159	1,108	134 500
DF	25	8	89	145	2.537	8.65	7.93	55.1	261.2	12.44	437	2,071	1,331	467	222
DF	26	9	87	134	2.639	9.73	8.21	55.0	253.2	12.86	451	2,079	1,376	483	222
DF	27	7	87	140	1.903	7.57	5.71	64.3	303.3	10.46	367	1,732	1,119	393	185
DF	28	9	87	148	2.275	9.73	7.58	65.1	319.7	14.08	494	2,425	1,506	529	259
DF	29	8	86		1.885	8.65	6.13	66.5	333.1	11.61	407	2,041	1,242	436	218
DF	30 31	7 2	86 88	148 154	1.542 .413	7.57 2.16	4.85 1.24	78.5 93.2	387.7 481.7	10.84 3.29	380 115	1,879 596	1,160 352	407 123	201 64
DF DF	32	2	87	154	.387	2.16	1.16	91.0	491.7	3.01	106	571	332	113	61
DF	33	4	85	149	.728	4.32	2.37	89.7	451.5	6.05	212	1,068	647	227	114
DF	34	2	89	165	.343	2.16	1.37	91.5	513.8	3.58	126	705	383	134	75
DF	37	1	86	141	.145	1.08	.43	99.6	556.7	1.23	43	242	132	46	26
DF	40	1	84	149	.124	1.08	.37	143.9	740.0	1.52	53	275	163	57	29
DF	Totals	140	87	127	53.823	151.35	145.88	47.5	220.4	197.41	6,927	32,157	21,123	7,412	3,441
WH	10	1	89	60	1.982	1.08	1.98	11.2	50.0	.71	22	99	76	24	11
WH	11	1	87	52	1.638	1.08	1.64	12.2	50.0	.64	20	82	69	21	9
WH	12 13	2 1	88 89	57 62	2.753 1.173	2.16 1.08	2.75 1.17	16.1 21.1	55.0 70.0	1.41 .79	44 25	151 82	151 85	47 26	16 9
WH WH	13	3	89 87	62 73	3.034	3.24	3.03	26.2	70.0 86.7	2.54	23 79	82 263	272	20 85	28
WH	15	2	88	80	1.762	2.16	3.52	18.7	72.5	2.11	66	255	226	70	20
WH	17	1	82	84	.686	1.08	1.37	25.3	90.0	1.11	35	123	119	37	13
WH	19	1	87	105	.549	1.08	1.10	40.1	150.0	1.41	44	165	151	47	18
WH	22	2	87	127	.819	2.16	2.46	41.7	188.3	3.28	103	463	351	110	50
WH	24	3	89		1.032	3.24	3.10	53.8	255.6	5.33	167	791	570	178	85
WH WH	25 26	2 2	88 86		.634 .586	2.16 2.16	1.90 1.76	59.8 59.0	286.7 263.3	3.64 3.32	114 104	545 463	389 355	122 111	58 50
WH WH	20	1	93		.380	1.08	.82	66.5	203.3 340.0	1.74	54	403 277	186	58	30 30
WH	32	1	88		.194	1.08	.58	92.6	463.3	1.72	54	269	184	58	29
WH	Totals	23	88	80	17.114	24.86	27.19	34.2	148.3	29.75	930	4,031	3,183	995	431
NF	25	1	87	117	.317	1.08	.95	47.5	200.0	1.08	45	190	116	48	20
NF	30	1	90		.220	1.08	.66	72.4	343.3	1.15	48	227	123	51	24
NF	35	1	87	148	.162	1.08	.49	115.9	590.0	1.35	56	286	144	60	31
NF	Totals	3	88	125	.699	3.24	2.10	71.1	335.4	3.58	149	704	383	160	75
GF	9	1	88		2.447	1.08	2.45	8.5	40.0	.46	21	98	49	22	10
GF	44	1	88		.102	1.08	.31	191.2	1010.0	1.29	59	310	138	63	33
GF	Totals	2	88	68	2.549	2.16	2.75	28.8	148.2	1.75	79	408	187	85	44
DF S	16	1	80		.774	1.08									
DF S	18	2	85	78	1.224	2.16									

тс	IC PSTNDSUM Stand Table Summary												Page Date:	2 1/16/2	025
TT2N	TT2N RR6W S04 Ty00CC 107.00 Project WOLFSEND												Time:	11:44:	22AM
	Acres 107.00										Grown Year				
S <b>Spc</b> Т	DBH	Sample Trees	FF 16'	Tot Av Ht	Trees/ Acre	<b>BA/</b> Acre	Logs Acre	Average Net Cu.Ft.	e Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Tons	T o t a l s Cunits	MBF
DF S	Totals	3	83	65	1.998	3.24									
Totals		171	87	113	76.184	184.86	177.92	45.4	209.6	232.49	8,085	37,299	24,876	8,65	1 3,991

ſ	TC	PLOGSTVI
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TC PLO	OGSTVB				Log S	Stock ]	Fable -	MBF									
TT2N F	R6W S04 1	ſy00CC	. 107.0	0	Proje Acre		WO.	LFSEN 107						Page Date Time	1/1	1 6/2025 :44:20A	M
s	So Gr	Log	Gross D	ef Net	Net % Net Volume by Scaling Diameter in Inches								es			-	
Spp т	rt de	Len	MBF 9	% MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
WH	2N	1 40	273	273	63.4						46	34	154	40			
WH	3N	1 33	9	9	2.0			9									
WH	3N	1 35	18	18	4.2			18									
WH	3N	1 37	2	2	.5			2									
WH	3N	1 40	93	93	21.6			12	50	31							
WH	4N	1 13	3	3	.6			3									
WH	4N	1 17	1	1	.2			1									
WH	4N			5	1.2			5						1			
WH	4N	1 23	2	2	.5			2						1			
WH	4N	1 26	1	1	.2				1								
WH	4N	1 27	1	1	.2			1									
WH	4N	1 32	2	2	.5			2									
WH	4N			10				2	9								
WH	4N			2				2									
WH	4N	1 40	9	9	2.0			9									
WH	Total	s	431	431	10.8			67	60	31	46	34	154	40			
DF	2N			11										11			
DF	2N			13											13		
DF	2N			16							461	507	1172	16	70		
DF	2N	1 40	2,723	2,715	78.9						461	527	1173	476	78		
DF	3N	1 20	1	1	.0				1								
DF	3N	1 21	1	1	.0				1								
DF	3N			1	.0				1								
DF	3N			4	.1			3	1								
DF	3N			5	.1			5									
DF DF	3N 3N			3	.1			3									
DF	31			4				10									
DF	3N			8				8									
DF	3N			15				15									
DF	3N	1 40	516	516	15.0			48	168	294	6						
DF	4N	1 12	1	1	.0			1									
DF	4N 4N			2	.1			2						1			
DF	4N 4N			3	.1			2	1					1			
DF	4N			5				5	-					1			
DF	4N			3				3									
	I							I		<u> </u>				<u> </u>		<b></b>	

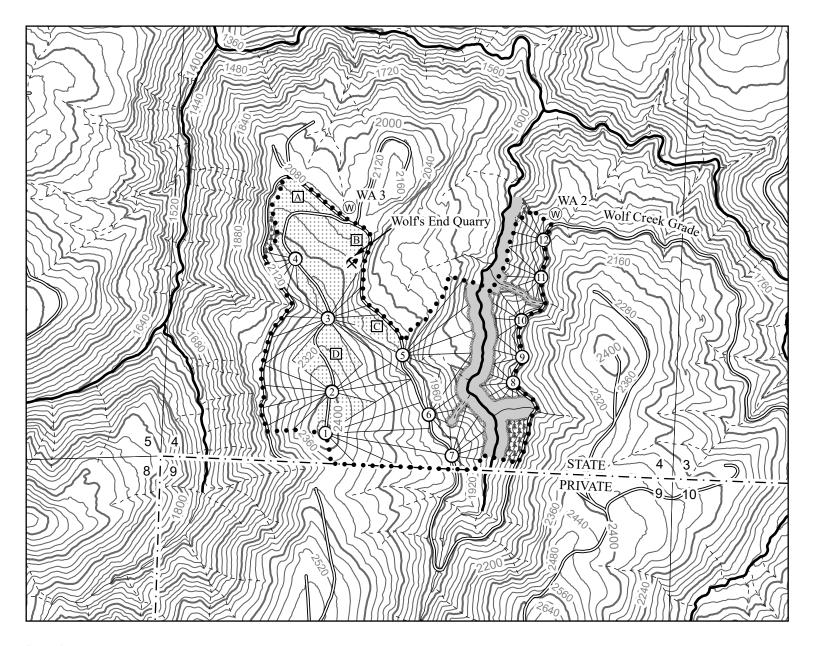
TC PLOGSTVB Log Stock Table - MBF																		
TT2N R	TT2N RR6W S04 Ty00CC 107.00			07.00	Project: WO Acres			LFSEND 107.00						Page Date Time	1/1	2 6/2025 44:20A	M	
s	So Gr	Log	Gross	Def	Net	%		N	<u>Net Volu</u>	ne by S	caling D	iamete	<u>r in Inche</u>	es				
<b>Spp т</b>	rt de	Len	MBF	%	MBF	Spc	2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF	4M	1 17		l	1	.0			1									
DF	4M	1 18	1	l	1	.0			1									
DF	4N	1 19		3	3	.1			3									
DF	4M	1 20		5	6	.2			5	1								
DF	4M	1 21		5	5	.1			5									
DF	4N	1 22		5	6	.2			6									
DF	4M	1 23	3	3	3	.1			3									
DF	4M	1 24	. 1	l	1	.0			1									
DF	4M	1 25	10	)	10	.3			10									
DF	4M	1 26	ģ	)	9	.3			9									
DF	4M	1 27	±	5	5	.1			5									
DF	4M	1 28		5	5	.1			5									
DF	4M	1 29	-	3	3	.1			3									
DF	4M	1 30		5	5	.1			5									
DF	4M	1 31		5	6	.2			6									
DF	4M	1 32	10	)	10	.3			10									
DF	4M	1 33	2	1	4	.1			4									
DF	4M	1 34	. 2	1	4	.1			4									
DF	4M	1 35	4	1	4	.1			4									
DF	4M	1 36	2	1	4	.1			4									
DF	4M	1 37		3	3	.1			3									
DF	4M	1 39	2	2	2	.1			2									
DF	4N	1 40		7	7	.2			7									
DF	Total	s	3,449	)	3,441	86.2			212	175	294	467	527	1173	502	91		
GF	2M	<b>1</b> 40	3	l	31	71.5										11	20	
GF	3N	<b>1</b> 40	2	2	2	4.5					2							
GF	4N	1 31	10	)	10	24.0			10									
GF	Total	s	44	ļ	44	1.1			10		2					11	20	
NF	2N	1 40	68	3	68	89.8						6		24	18	20		
NF	3N	<b>1</b> 40		7 5.	1 6	8.4				2	5							
NF	4M	1 15	1	1	1	.9			1									
NF	4N	1 18	. 1	l	1	.9			1									
NF	Total	s	70	5 1.3	3 75	1.9			1	2	5	6		24	18	20		
Total	All Specie	es	4,000	)	3,991	100.0			291	236	331	519	561	1351	560	122	20	

#### Volume Summary (Shown in MBF) Wolf's End FG-341-2025-W00951-01 March 2025

SPECIES		2 SAW	3 SAW	4 SAW	TOTAL
	Cruise Volume	2,754	569	118	3,441
Douglas-fir	Hidden D&B (2%)	(55)	(11)	(3)	(69)
Douglas-III	NET TOTAL	2,699	558	115	3,372
	% of Total	80	17	3	
	Cruise Volume	273	122	36	431
Western	Hidden D&B (2%)	(5)	(3)	(1)	(9)
hemlock	NET TOTAL	268	119	35	422
	% of Total	64	28	8	
	Cruise Volume	68	6	1	75
Noble fir	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	67	6	1	74
	% of Total	91	8	1	
Grand fir	Cruise Volume	31	2	10	43
	Hidden D&B (2%)	(1)	(0)	(0)	(1)
	NET TOTAL	30	2	10	42
	% of Total	71	5	24	

### TIMBER SALE AREA: CC (107 ACRES)

SALE TOTAL								
SPECIES	2 SAW	3 SAW	4 SAW	TOTAL				
Douglas-fir	2,699	558	115	3,372				
Western hemlock	268	119	35	422				
Noble fir	67	6	1	74				
Grand fir	30	2	10	42				
Total	3,064	685	161	3,910				



#### Legend

- • Timber Sale Boundary
- Stream Buffer Boundary
- I. \_\_\_\_ ODF Ownership Boundary
- Surfaced Road
- ----- Type-F Stream
- ------ Type-N Stream Perennial
- ---- Type-N Stream Seasonal
- Stream Buffer
- Cable Ground
- Tractor Ground
- Cable Landing
- Tractor Landing
- Green Tree Retention Area
- 🛠 Quarry
- W Waste Area
- Section Line
- ----- 40 Foot Contour Band
- ----- 200 Foot Contour Band

### LOGGING PLAN

FOR TIMBER SALE CONTRACT #FG-341-2025-W00951-01 WOLF'S END PORTIONS OF SECTION 4, T2N, R6W, W.M., WASHINGTON COUNTY, OREGON

> Forest Grove District GIS March, 2025 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

APROXIMATE NET ACRES TRACTOR CABLE

TOTAL	28	79

