



"STEWARDSHIP IN FORESTRY"

Timber Sale Appraisal
Seven Cow Thin
Sale AT-541-2026-W01255-01

District: Astoria

Date: May 29, 2026

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	\$1,065,420.51	\$2,874.40	\$1,068,294.91
		Project Work:	(\$181,449.00)
		Advertised Value:	\$886,845.91



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District: Astoria

Date: May 29, 2026

Timber Description

Location:

Stand Stocking: 80%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	12	0	97
Alder (Red)	11	0	95

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	82	4,615	0	4,697
Alder (Red)	0	0	16	16
Total	82	4,615	16	4,713

Comments: Pond Values Used: Local Pond Values, May, 2026.

Expected Log Markets: Tillamook, Warrenton, Forest Grove, Mist, Willamina, Wauna, and Longview, WA.

PRICING:

Western Red Cedar and other Cedars stumpage = pond value - (Douglas-fir) logging cost.
\$812.47/MBF = \$1,200/MBF - \$387.53/MBF

Western hemlock and other conifer stumpage = pond value - (Douglas-fir) logging cost.
\$160.47/MBF = \$548/MBF - \$387.53/MBF

Other Costs (with Profit & Risk to be added):

Machine Washing for Invasive Weed Compliance = \$2,000

Ditch Filters:

12 bales of straw @ \$12/bale = \$144

4 hours of labor @ \$50/hr = \$200

Extra move-in due to seasonal restrictions: (1 x Harvester, 1 x tracked skidder, and 1 x log loader) 3 X
\$1,610 = \$4,830.

TOTAL Other Costs (with Profit & Risk to be added):\$7,908.

Other Costs (No Profit & Risk added):

None.

ROAD MAINTENANCE

(See attached Road Maintenance Cost Summary Sheet)

TOTAL Road Maintenance: \$/MBF = \$7.95/MBF



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Logging Conditions

Combination#:	1	Douglas - Fir	63.05%
Logging System:	Cable: Small Tower <=40		Process: Manual Falling/Delimbing
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	5		bd. ft / load: 4200
cost / mbf:	\$353.89		
machines:	Log Loader (A) Tower Yarder (Small)		
Combination#:	2	Douglas - Fir	32.48%
Logging System:	Cut To Length		Process: Harvester Head Delimbing
yarding distance:	Medium (800 ft)		downhill yarding: No
tree size:	Small / Thinning 12in (130 Bft/tree), 12-17 logs/MBF		
loads / day:	9		bd. ft / load: 4700
cost / mbf:	\$167.94		
machines:	Harvester Forwarder		
Combination#:	3	Douglas - Fir Alder (Red)	4.47% 100.00%
Logging System:	Shovel		Process: Feller Buncher
yarding distance:	Short (400 ft)		downhill yarding: No
tree size:	Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF		
loads / day:	14		bd. ft / load: 5000
cost / mbf:	\$142.86		
machines:	Feller Buncher w/ Delimber		



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Logging Costs

Operating Seasons: 4.00

Profit Risk: 12%

Project Costs: \$181,449.00

Other Costs (P/R): \$7,908.00

Slash Disposal: \$0.00

Other Costs: \$0.00

Miles of Road

Road Maintenance: \$7.95

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	4.2
Alder (Red)	\$0.00	2.0	4.3



"STEWARDSHIP IN FORESTRY"

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Date: May 29, 2026

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
\$284.06	\$8.19	\$3.73	\$102.19	\$1.68	\$47.98	\$0.00	\$2.00	\$0.00	\$449.83
Alder (Red)									
\$142.86	\$8.35	\$3.73	\$152.62	\$1.68	\$37.11	\$0.00	\$2.00	\$0.00	\$348.35

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	\$0.00	\$676.66	\$226.83	\$0.00
Alder (Red)	\$0.00	\$528.00	\$179.65	\$0.00



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Timber Sale Appraisal
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Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	4,697	\$226.83	\$1,065,420.51
Alder (Red)	16	\$179.65	\$2,874.40

Gross Timber Sale Value

Recovery: \$1,068,294.91

Prepared By: John Tillotson

Phone: 503-325-5451

Road Maintenance Cost Summary (Interim and Post Harvest)

Sale: Seven Cow Thin
Date: March 19th, 2026
By: Ryan Simpson

MBF: 4,711
\$/MBF: \$7.95

Type	Equipment/Rationale	Move-in Rate	Times	Hours	Rate	Cost
First Interim Maintenance	Grader 14G	\$972	1	16	\$126	\$2,988
	Dump Truck 12CY	\$205	1	8	\$99	\$997
	Rubber tired backhoe	\$401	1	4	\$97	\$789
Second Interim Maintenance	Grader 14G	\$972	1	16	\$126	\$2,988
Final Road Maintenance	Grader 14G	\$972	1	72	\$126	\$10,044
	Dump Truck 12CY	\$205	2	32	\$99	\$3,578
	Front End Loader C966	\$972	1	16	\$105	\$2,652
	Vibratory Roller	\$972	1	72	\$97	\$7,956
	Water Truck 2,500 gallon	\$238	1	16	\$113	\$2,046
	C315 Excavator	\$1,005	1	16	\$127	\$3,037
	Labor			8	\$50	\$400
Total						\$37,475

Interim Operations Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	3.0	6.0	2.0	16

Final Road Maintenance

Production Rates	Miles/day	Distance (miles)	Days	Hours
Grader	1.8	14.8	8.5	68
Vibratory Roller	1.8	14.8	8.5	68

Process and Compact

Bovine Mainline: 4.9 Miles
Northrup Creek Road: 2.3 Miles
Greasy Spoon Road: 1.1 Miles
Cow Ridge Road: 0.5 Miles
Unnamed Spurs: 5.5 Miles
New Road Construction (Surfaced): 0.5 Miles
Process and Compact Total: 14.8 Miles

SUMMARY OF ALL PROJECT COSTS

SALE NAME: Seven Cow Thin

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
Surfaced			
4A to 4B	26.85	0.51	\$34,692.00
4C to 4D, 5A to 5B			
5C to 5D, 5E to 5F			
5G-5H, 7A to 7B			
7C-7D, 7E to 7F			
Unsurfaced			
1A to 1B, 1C to 1D	92.35	1.75	\$44,310.00
1E to 1F, 2A to 2B			
3A to 3B, 3C to 3D			
3E to 3F, 3G to 3H			
3I to 3J, 3K to 3L			
3M to 3N,			
Road Maint.			\$1,440.62
Move-In			\$6,585.31
TOTALS	119.20	2.26	\$87,028

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length (Sta)</u>	<u>Length (Mile)</u>	<u>Cost</u>
I1 to I2, I3 to I4	325.9	6.17	\$77,015.00
I5 to I6, I7 to I8,			
I9 to I10, I11 to I2,			
I13 to I14, I15 to I16			
I17 to I18, I19 to I20			
I21 to I22, I23 to I24			
I25 to I26, I27 to I28			
I29 to I30, I31 to I32			
I33 to I34, I35 to I36			
I37 to I38			
Road Maint.			\$1,404.38
Move-In			\$6,419.69
TOTALS		6.17	\$84,839

SPECIAL PROJECTS (Move-In and Road Maint. are included separately as needed, for each Special Project):

<u>Description</u>	<u>Length/Vol.</u>	<u>Cost</u>
Proj. 3 Road Vacating	1.81	\$9,582.00
TOTAL		\$9,582

GRAND TOTAL **\$181,449**

Compiled By: Kraig Kirkpatrick

Date: 02/12/2026

Move In and Maintenance Calculator for Construction and Improvement

SALE NAME: Seven Cow Thin

Project No. 1: ROAD CONSTRUCTION:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
Surfaced			
4A to 4B	26.85	0.51	\$34,692.00
4C to 4D, 5A to 5B			
5C to 5D, 5E to 5F			
5G-5H, 7A to 7B			
7C-7D, 7E to 7F			
Unsurfaced			
1A to 1B, 1C to 1D	92.35	1.75	\$44,310.00
1E to 1F, 2A to 2B			
3A to 3B, 3C to 3D			
3E to 3F, 3G to 3H			
3I to 3J, 3K to 3L			
3M to 3N,			
TOTALS	119.20	2.26	\$79,002

Project No. 2: ROAD IMPROVEMENT:

<u>Road segment</u>	<u>Length/Sta</u>	<u>Length/Mile</u>	<u>Cost</u>
I1 to I2, I3 to I4	325.90	6.17	\$77,015
I5 to I6, I7 to I8,			
I9 to I10, I11 to I12,			
I13 to I14, I15 to I16			
I17 to I18, I19 to I20			
I21 to I22, I23 to I24			
I25 to I26, I27 to I28			
I29 to I30, I31 to I32			
I33 to I34, I35 to I36			
TOTALS		6.17	\$77,015

MOVE IN (Construction & Improvement Only)

<u>Equipment</u>	<u>Length/Mile</u>	<u>Cost</u>
Grader (x1.5)		\$1,458.00
Vibratory Roller(x1.5)		\$1,458.00
Water Truck (2500 gal.)(x1.5)		\$357.00
Excavator (315)(x1.5)		\$1,507.00
Excavator (330) (x1.5)		\$2,632.00
Dozer (D8)(x1.5)		\$2,632.00
Front End Loader (C966)(x1.5)		\$1,458.00
10-12cy Highway Dump (x5)		\$1,025.00
20cy Highway Dump w/trailer(x2)		\$478.00
TOTAL		\$13,005.00

ROAD MAINTENANCE (Construction & Improvement Only)

	<u>Length/Mile</u>	<u>Cost</u>
Spot Grade: Nicolai ML, Greasy Spoon, and Bovine ML	11.1	\$2,845.00
TOTAL		\$2,845.00

SUMMARY OF CONSTRUCTION COSTS

SALE NAME:

Seven Cow Thin

NEW CONSTRUCTION:

119.20

STATIONS

2.26 MILES

ROAD:

1A-1B(3.2), 1C-1D(12.0), 1E-1F(0.85), 2A-2B(6.65), 3A-3B(33.7), 3C-3D(3.9), 3E-3F(14.4), 3G-3H(1.75), 3I-3J(6.3), 3K-3L(7.6), 3M-3N(2.0), 4A-4B(5.3), 4C-4D(3.2), 5A-5B(1.6), 5C-5D(1.4), 5E-5F(1.35), 5G-5H(0.85), 7A-7B(1.6), 7C-7D(6.75), 7E-7F(4.8)

IMPROVEMENT:

STATIONS

0.00 MILES

POINTS:

5C-5D(1.4), 5E-5F(1.35), 5G-5H(0.85), 7A-7B(1.6), 7C-7D(6.75), 7E-7F(4.8)

CLEARING & GRUBBING

Method	Acres/amount	X	Rate	=	Cost
Surfaced					
4A to 4B, 4C to 4D	2.45	X	\$ 1,669	=	\$4,089.05
5A to 5B, 5C to 5D					
5E to 5F, 5G-5H					
7A to 7B, 7C to 7D					
7E to 7F					
Unsurfaced					
1A to 1B, 1C to 1D	8.60	X	\$ 1,669	=	\$14,353.40
1E to 1F, 2A to 2B					
3A to 3B, 3C to 3D					
3E to 3F, 3G to 3H					
3I to 3J, 3K to 3L					
3M to 3N,					
SUB TOTAL FOR CLEARING & GRUBBING					\$18,442

EXCAVATION

Material	Cy/amount	X	Rate	=	Cost
1A to 1B					
Balanced construction \$/sta	3.20	X	\$154.00	=	\$492.80
1C to 1D					
Balanced construction \$/sta	12	X	\$154.00	=	\$1,848.00
0+00 to 12+00					
6+45	2	X	\$195.00	=	\$390.00
Cutlope rounding (\$/sta)	2.5	X	\$54.39	=	\$135.98
Embankment compaction (\$/cy)	445.0	X	\$0.87	=	\$387.15
1E to 1F					
Balanced construction \$/sta	0.85	X	\$154.00	=	\$130.90
2A to 2B					
Existing spur, smoothing w/D8 (\$/hr)	1	X	\$198.00	=	\$198.00
3A to 3B					
0+00-9+45 & 18+65-33+70	8	X	\$198.00	=	\$1,584.00
9+45-18+65	9	X	\$238.00	=	\$2,189.60
Embankment compaction (\$/cy)	1,145	X	\$0.87	=	\$996.15
Cutlope rounding (\$/sta)	4.25	X	\$54.39	=	\$231.16
3C to 3D					
0+00-3+90	3.90	X	\$238.00	=	\$928.20
Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
Embankment compaction (\$/cy)	330.0	X	\$0.87	=	\$287.10
3E to 3F					
Common drift up to 200' (\$/sta)	15.40	X	\$238.00	=	\$3,665.20
Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
Embankment compaction (\$/cy)	1,440.0	X	\$0.87	=	\$1,252.80
3G to 3H					
Balanced construction \$/sta	1.75	X	\$154.00	=	\$269.50
Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
3I to 3J					
Existing spur, smoothing w/D8 (\$/hr)	1	X	\$198.00	=	\$198.00

3K to 3L	Balanced construction \$/sta	7.60	X	\$154.00	=	\$1,170.40
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
3M to 3N						\$0.00
	Balanced construction \$/sta	2.00	X	\$154.00	=	\$308.00
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
4A to 4B	Common drift up to 200' (\$/sta.)	5.30	X	\$238.00	=	\$1,261.40
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
4C to 4D						
	Balanced construction \$/sta	3.20	X	\$154.00	=	\$492.80
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
5A to 5B	Existing spur, smoothing w/D8 (\$/hr)	0.5	X	\$198.00	=	\$99.00
5C to 5D	Balanced construction \$/sta	1.40	X	\$154.00	=	\$215.60
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
5E to 5F	Existing spur, smoothing w/D8 (\$/hr)	0.5	X	\$198.00	=	\$99.00
5G to 5H	Balanced construction \$/sta	0.85	X	\$154.00	=	\$130.90
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
7A to 7B	Balanced construction \$/sta	1.60	X	\$154.00	=	\$246.40
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
7C to 7D	Balanced construction \$/sta	6.75	X	\$154.00	=	\$1,039.50
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00
	Embankment compaction (\$/cy)	1,105.0	X	\$0.87	=	\$961.35
7E to 7F	Balanced construction \$/sta	4.80	X	\$154.00	=	\$739.20
	Landing construction (\$/ldg)	1.00	X	\$487.00	=	\$487.00

ROAD SEGMENT			3K to 3L		POINT TO POINT		Sta. to Sta.	TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per station	3K to 3L	0+00 to 7+60	Number of	VOLUME (CY)	Sta./ amt.	
Base Rock	4"-0" crushed	0+00 to 1+00	8	50			1.00	50	\$7.92	\$396
Total Rock for Road Segment:			3K to 3L					50		\$396
ROAD SEGMENT			4A to 4B		POINT TO POINT		Sta. to Sta.	TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per station	4A to 4B	0+00 to 5+30	Number of	VOLUME (CY)	Sta./ amt.	
Base Rock	4"-0" crushed	0+00 to 5+30	8	50			5.30	265	\$7.92	\$2,099
Turnarounds	4"-0" crushed	3+15	8	22	TA	TA's	1	22	\$7.92	\$174
Landing	6"-0" jaw-run	5+30	N/A	66	landing	landings	1	66	\$12.38	\$817
Total Rock for Road Segment:			4A to 4B					353		\$3,090
ROAD SEGMENT			4C to 4D		POINT TO POINT		Sta. to Sta.	TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per station	4C to 4D	0+00 to 3+20	Number of	VOLUME (CY)	Sta./ amt.	
Base Rock	4"-0" crushed	0+00 to 3+20	8	50			3.20	160	\$7.92	\$1,267
Landing	6"-0" jaw-run	3+20	N/A	66	landing	landings	1	66	\$12.38	\$817
Total Rock for Road Segment:			4C to 4D					226		\$2,084
ROAD SEGMENT			5A to 5B		POINT TO POINT		Sta. to Sta.	TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per station	5A to 5B	0+00 to 1+60	Number of	VOLUME (CY)	Sta./ amt.	
Base Rock	4"-0" crushed	0+00 to 1+60	4	25			1.60	40	\$7.92	\$317
Junction Rock	3/4"-0" crushed	0+00	2	11	junction	junctions	1	11	\$7.92	\$87
Culvert Bedding and Backfill	3/4"-0" crushed	0+00	N/A	33	culvert	culverts	1	33	\$7.90	\$261
Landing	6"-0" jaw-run	1+60	N/A	44	landing	landings	1	44	\$12.38	\$545
Total Rock for Road Segment:			5A to 5B					128		\$1,209
ROAD SEGMENT			5C to 5D		POINT TO POINT		Sta. to Sta.	TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per station	5C to 5D	0+00 to 1+40	Number of	VOLUME (CY)	Sta./ amt.	
Base Rock	4"-0" crushed	0+00 to 1+40	8	50			1.40	70	\$7.92	\$554
Junction Rock	3/4"-0" crushed	0+00	2	11	junction	junctions	1	11	\$7.92	\$87
Landing	6"-0" jaw-run	1+40	N/A	66	landing	landings	1	66	\$12.38	\$817
Total Rock for Road Segment:			5C to 5D					147		\$1,459

ROAD SEGMENT		5E to 5F		POINT TO POINT		Sta. to Sta.		TOTAL		Rate/ Sta./ amt.		Cost					
Application		Rock Size and Type		Location		Depth of Rock (inches)		5E to 5F Volume (CY) per		Number of		VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Base Rock		4"-0" crushed		0+00 to 1+35		4		station		25		stations		1.35		\$269	
Junction Rock		3/4"-0" crushed		0+00		2		junction		11		junctions		1		\$87	
Landing		6"-0" jaw-run		1+35		N/A		landing		44		landings		1		\$545	
Total Rock for Road Segment: 5E to 5F												89				\$901	
ROAD SEGMENT		5G to 5H		POINT TO POINT		Sta. to Sta.		TOTAL		Rate/ Sta./ amt.		Cost					
Application		Rock Size and Type		Location		Depth of Rock (inches)		5G to 5H Volume (CY) per		Number of		VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Base Rock		4"-0" crushed		0+00 to 0+85		8		station		50		stations		0.85		\$341	
Landing		6"-0" jaw-run		0+85		N/A		landing		66		landings		1		\$817	
Total Rock for Road Segment: 5G to 5H												109				\$1,158	
ROAD SEGMENT		7A to 7B		POINT TO POINT		Sta. to Sta.		TOTAL		Rate/ Sta./ amt.		Cost					
Application		Rock Size and Type		Location		Depth of Rock (inches)		7A to 7B Volume (CY) per		Number of		VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Base Rock		4"-0" crushed		0+00 to 1+60		8		station		50		stations		1.60		\$634	
Landing		6"-0" jaw-run		1+60		N/A		landing		66		landings		1		\$817	
Total Rock for Road Segment: 7A to 7B												146				\$1,451	
ROAD SEGMENT		7C to 7D		POINT TO POINT		Sta. to Sta.		TOTAL		Rate/ Sta./ amt.		Cost					
Application		Rock Size and Type		Location		Depth of Rock (inches)		7C to 7D Volume (CY) per		Number of		VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Base Rock		4"-0" crushed		0+00 to 6+75		8		station		50		stations		6.75		\$2,677	
Turnarounds		4"-0" crushed		5+20		8		TA		22		TA's		1		\$174	
Surfacing		3/4"-0" crushed		0+00 to 3+50		2		station		13		stations		3.5		\$364	
Junction Rock		3/4"-0" crushed		0+00		2		junction		11		junctions		1		\$87	
Landing		6"-0" jaw-run		6+75		N/A		landing		66		landings		1		\$817	
Total Rock for Road Segment: 7C to 7D												483				\$4,120	
ROAD SEGMENT		7E to 7F		POINT TO POINT		Sta. to Sta.		TOTAL		Rate/ Sta./ amt.		Cost					
Application		Rock Size and Type		Location		Depth of Rock (inches)		7E to 7F Volume (CY) per		Number of		VOLUME (CY)		Rate/ Sta./ amt.		Cost	
Base Rock		4"-0" crushed		0+00 to 4+80		8		station		50		stations		4.80		\$1,901	
Turnarounds		4"-0" crushed		2+60		8		TA		22		TA's		1		\$174	
Landing		6"-0" jaw-run		4+80		N/A		landing		66		landings		1		\$817	
Total Rock for Road Segment: 7E to 7F												328				\$2,892	

Processing:		No. sta	Rate/sta	Cost
Water, Process & Compact Base Rock (4"-0"):		33.85	\$30.29	\$1,025.32
Water, Process & Compact Surface Rock (3/4"-0"):		3.5	\$30.29	\$106.02

SUB TOTAL FOR SURFACING

24"-6"r	6"-0"r	4"-0" crushed	3/4"-0" crushed	Total
110	550	1,679	123	2,462
				2,462

\$29,420

SPECIAL PROJECTS

Description	Cy/Amount	Rate	Cost
			\$0.00
			\$0.00

SUB TOTAL FOR SPECIAL PROJECTS

Subtotal of Surfacing & Spec. Proj.
Subtotal of Clearing, Exc., Culv.

GRAND TOTAL

\$79,002

Compiled By: Kraig Kirkpatrick

Date: 02/12/2026

SUMMARY OF CONSTRUCTION COSTS

SALE NAME: Seven Cow Thin

NEW CONSTRUCTION:

STATIONS

0.00 MILES

ROAD: 11-12(79.45),13-14(28.0),15-16(9.15),17-18(5.2),19-110(1.15),111-112(29.7),113-114(10.4)
POINTS: 115-116(1.2),117-118(3.2),119-120(4.3),121-122(11.05),123-124(3.7),125-126(63.65),
127-128(2.15),129-130(2.6),131-132(31.75),133-134(3.5),135-136(2.1),137-138(33.6)

IMPROVEMENT: 325.90

STATIONS

6.17 MILES

CLEARING & GRUBBING

Method	Acres/amount	x	Rate	=	Cost
18 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
19 to 110 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
114 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
115 to 116 Deck outside of right of way w315 (\$/hr)	2	x	\$127.00	=	\$254.00
118 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
120 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
125 to 126 Deck outside of right of way w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
11+85 TA Deck outside of right of way w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
137 to 138 Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
28+20 TA Deck outside of right of way w315 (\$/hr)	1	x	\$127.00	=	\$127.00
33+60				=	\$0.00
SUB TOTAL FOR CLEARING & GRUBBING					
					\$1,143

EXCAVATION

Material	Cy/amount	x	Rate	=	Cost
11 to 12 Install Rock Ditch Filters (7'), w/C315 (\$/hr)	7.00	x	\$127.00	=	\$889.00
2+50 to 3+50 Ditch Reconstruction, w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
Ditch Reconstruction, end-haul to WA, w315 (\$/hr)	1.0	x	\$237.00	=	\$237.00
33+30 to 35+30 & 10-12cy truck (\$/hr)	4.0	x	\$127.00	=	\$508.00
Remove woody debris from road prism w315 (\$/hr)	2.0	x	\$237.00	=	\$474.00
End-haul to waste area manure from road prism w315 & 10-12cy truck, (\$/hr)	0.5	x	\$127.00	=	\$63.50
2+25,25+55 Clean culvert in/outlet w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
13 to 14 Ditch Reconstruction, w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
15 to 16 Scatter Sod and Ditch Waste Material w315 (\$/hr)	1.0	x	\$127.00	=	\$127.00
6+50 to 9+15 Clean culvert in/outlet w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
17 to 18 Scatter Sod and Ditch Waste Material w315 (\$/hr)	1.0	x	\$127.00	=	\$127.00
0+00 to 5+20 Ditch Reconstruction, w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
19 to 110 Scatter Sod and Ditch Waste Material w315 (\$/hr)	4.0	x	\$127.00	=	\$508.00
111 to 112 Material w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
23+05,26+65 Clean culvert in/outlet w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
113 to 114 Scatter Sod and Ditch Waste Material w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50
115 to 116 Scatter Sod and Ditch Waste Material w315 (\$/hr)	0.5	x	\$127.00	=	\$63.50

117 to 118		X	=	\$0.00
0+00 to 3+20	Ditch Reconstruction, w/315 (\$/ln)	0.5	=	\$63.50
	Remove woody debris from road prism w/315 (\$/ln)	0.5	=	\$63.50
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
119 to 120			=	
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
3+00 to 4+30	Ditch Reconstruction, w/315 (\$/ln)	2.00	=	\$254.00
121 to 122			=	\$0.00
0+00 to 6+50	Ditch Reconstruction, w/315 (\$/ln)	2.00	=	\$254.00
9+35	Clean culvert inlet/outlet w/315 (\$/ln)	0.5	=	\$63.50
123 to 124			=	\$0.00
0+00 to 2+50	Ditch Reconstruction, w/315 (\$/ln)	1.00	=	\$127.00
125 to 126			=	\$0.00
	Scatter Sod and Ditch Waste Material w315	4.0	=	\$508.00
11+85	Establish Turnaround w315 (\$/ln)	0.5	=	\$63.50
127 to 128			=	\$0.00
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
129 to 130			=	\$0.00
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
131 to 132			=	\$0.00
8+30, 17+05,	Clean culvert inlet/outlet w/315 (\$/ln)	0.5	=	\$63.50
26+50	Fill in road block w/315	0.5	=	\$63.50
29+35	Remove woody debris from road prism w/315 (\$/ln)	0.5	=	\$63.50
133 to 134			=	
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
137 to 138			=	
	Scatter Sod and Ditch Waste Material w315	0.5	=	\$63.50
5+15	Clean culvert inlet/outlet w/315 (\$/ln)	0.5	=	\$63.50
			=	\$0.00

SURFACING		Subgrade prep:		Description		Stations/ amount	x	Rate/ sta/amt	Cost
		4A-4B(5.3),4C-4D(3.2), 5A-5B(1.6),5C-5D(1.4),5E-5F(1.35),5G-5H(0.85),7A-7B(1.6),7C-7D(6.75),7E-7F(4.8)		Grade, Shape and Ditch 16'		26.85	x	\$30.98	\$831.81
		1-1B(3.2),1C-1D(2.0),1E-1F(0.85),2A-2B(6.65),3A-3B(3.7),3C-3D(3.9),3E-3F(15.4),3G-3H(1.75),3I-3J(6.3),3K-3L(7.6),3M-3N(2.0)		Grade, Shape and Outslope 14'		92.35	x	\$22.89	\$2,113.89
				Subgrade Compaction		120.20	x	\$25.19	\$3,027.84

ROAD SEGMENT		1A to 1B	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	1A to 1B Volume (CY) per station	0+00 to 3+20 Number of			
Base Rock	4"-0" crushed	0+00 to 1+00	8	50	1.00	50	\$7.92	\$396
Total Rock for Road Segment:		1A to 1B		POINT TO POINT		Sta. to Sta.		\$396

ROAD SEGMENT		1C to 1D	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	1C to 1D Volume (CY) per station	0+00 to 12+00 Number of			
Base Rock	4"-0" crushed	0+00 to 1+00	8	50	1.00	50	\$7.92	\$396
Fill Armoring	24"-6" riprap	6+45	N/A	fill 110	fills 1	110	\$11.23	\$1,235
Total Rock for Road Segment:		1C to 1D		POINT TO POINT		Sta. to Sta.		\$1,631

ROAD SEGMENT		1E to 1F	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	1E to 1F Volume (CY) per station	0+00 to 0+85 Number of			
Base Rock	4"-0" crushed	0+00 to 0+85	8	50	0.85	43	\$7.92	\$341
Total Rock for Road Segment:		1E to 1F		POINT TO POINT		Sta. to Sta.		\$341

ROAD SEGMENT		2A to 2B	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	2A to 2B Volume (CY) per station	0+00 to 6+65 Number of			
Base Rock	4"-0" crushed	0+00 to 1+00	8	50	1.00	50	\$7.92	\$396
Total Rock for Road Segment:		2A to 2B		POINT TO POINT		Sta. to Sta.		\$396

ROAD SEGMENT		3A to 3B	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	3A to 3B Volume (CY) per station	0+00 to 33+70 Number of			
Base Rock	4"-0" crushed	0+00 to 1+00	8	50	1.00	50	\$7.92	\$396
Total Rock for Road Segment:		3A to 3B		POINT TO POINT		Sta. to Sta.		\$396

ROAD SEGMENT		3E to 3F	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME (CY)	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	3E to 3F Volume (CY) per station	0+00 to 15+40 Number of			
Base Rock	4"-0" crushed	0+00 to 1+00	8	50	1.00	50	\$7.92	\$396
Total Rock for Road Segment:		3E to 3F		POINT TO POINT		Sta. to Sta.		\$396

SURFACING		Subgrade prep:	Description	Stations/ amount	Rate/ sta/amt	Cost
15-6, 17-18, 19-110, 111-112, 113-114, 115-116, 117-118, 119-120, 125-126, 127-128, 129-130, 133-134, 137-138	Grade, Shape and Ditch 16'			169.85	x	\$30.98
17-18, 19-110, 111-112, 113-114, 115-116, 117-118, 119-120, 125-126, 127-128, 129-130, 133-134, 137-138	Subgrade Compaction			91.55	x	\$25.19
11-12, 13-14, 121-122, 123-124, 131-132, 135-136	Grade and Shape			156.05	x	\$2,306.14
131-132 "Y" jct. (2 stations)	Grade and Shape			2.00	x	\$2,417.21
						\$30.98
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 11 to 12 Volume (CY) per	Sta. to Sta. 0+00 to 79+45 Number of	TOTAL VOLUME (CY)
Surface Leveling Rock	3/4"-0" crushed	8+60, 17+35, 53+55	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	59+30 to 75+55	2	station 13	16.25	211
Base Rock	4"-0" crushed	75+55 to 79+45	4	station 23	3.9	98
Rock Ditch Filters	6'-4" pit-run	0+00, 8+60(2X), 17+35(2 X), 53+55(2X)	N/A	filter: see instructions	7	77
Total Rock for Road Segment:				11 to 12		419
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 13 to 14 Volume (CY) per	Sta. to Sta. 0+00 to 28+00 Number of	TOTAL VOLUME (CY)
Surfacing	3/4"-0" crushed	3+35 to 10+35	2	station 13	7.0	91
Total Rock for Road Segment:				13 to 14		91
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 15 to 16 Volume (CY) per	Sta. to Sta. 0+00 to 9+15 Number of	TOTAL VOLUME (CY)
Subgrade Leveling Rock	4"-0" crushed	6+50	N/A	load 11	1	11
Landings	6"-0" law-run	9+15	N/A	landings 44	1	44
Total Rock for Road Segment:				15 to 16		55
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 17 to 18 Volume (CY) per	Sta. to Sta. 0+00 to 5+20 Number of	TOTAL VOLUME (CY)
Surfacing	3/4"-0" crushed	0+00 to 4+10	4	station 13	4.1	53
Junction	3/4"-0" crushed	0+00	4	junction 11	1	11
Subgrade Leveling Rock	4"-0" crushed	4+65	N/A	load 11	2	22
Landings	6"-0" law-run	5+20	N/A	landings 11	4	44
Total Rock for Road Segment:				17 to 18		130
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 19 to 110 Volume (CY) per	Sta. to Sta. 0+00 to 1+15 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	0+00 to 1+15	4	station 25	1.15	29
Junction	4"-0" crushed	0+00	4	junction 11	1	11
Landings	6"-0" law-run	1+15	N/A	landings 44	1	44
Total Rock for Road Segment:				19 to 110		84
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 111 to 112 Volume (CY) per	Sta. to Sta. 0+00 to 29+70 Number of	TOTAL VOLUME (CY)
Subgrade Leveling Rock	4"-0" crushed	4+25, 7+25, 10+95, 15+50	N/A	load 11	4	44
Surfacing	3/4"-0" crushed	13+65 to 19+80, 23+03	2	station 13	11	143
Turnout	3/4"-0" crushed	28+10	2	turnout 11	1	11
Turnout	3/4"-0" crushed	17+80	2	turnout 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	4+25, 7+25	N/A	culvert 33	2	66
Landings	6"-0" law-run	29+70	N/A	landings 44	1	44
Total Rock for Road Segment:				111 to 112		308
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A	culvert 33	2	66
Landings	6"-0" law-run	10+45	N/A	landings 44	1	44
Total Rock for Road Segment:				113 to 114		314
ROAD SEGMENT						
Application	Rock Size and Type	Location	Depth of Rock (inches)	POINT TO POINT 113 to 114 Volume (CY) per	Sta. to Sta. 0+00 to 10+45 Number of	TOTAL VOLUME (CY)
Base Rock	4"-0" crushed	8+45 to 10+45	N/A	station 25	2	50
Subgrade Leveling Rock	4"-0" crushed	0+70, 4+45, 6+15	N/A	load 11	3	33
Surfacing	3/4"-0" crushed	0+00 to 8+45	2	station 13	8.45	110
Junction	3/4"-0" crushed	0+00	2	junction 11	1	11
Culvert Bedding and Backfill	3/4"-0" crushed	0+70, 6+15	N/A			

ROAD SEGMENT		115 to 116		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Base Rock	4"-0" crushed	0+00 to 1+20	4	25	stations	1.2		30	\$7.92	\$238
Junction	4"-0" crushed	0+00		11	junctions	1		11	\$7.92	\$87
Landings	6"-0" jaw-run	1+20	N/A	44	landings	1		44	\$12.38	\$545
Total Rock for Road Segment			115 to 116					85		\$869
ROAD SEGMENT		117 to 118		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Subgrade Leveling Rock	4"-0" crushed	0+50.2+05	N/A	11	loads	2		22	\$7.92	\$174
Base Rock	4"-0" crushed	0+00 to 3+20	4	25	stations	3.2		80	\$7.92	\$634
Junction	4"-0" crushed	0+00		11	junctions	1		11	\$7.92	\$87
Landings	6"-0" jaw-run	3+20	N/A	66	landings	1		66	\$12.38	\$817
Total Rock for Road Segment			117 to 118					179		\$1,712
ROAD SEGMENT		119 to 120		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Base Rock	4"-0" crushed	0+00 to 4+30	4	25	stations	4.3		108	\$7.92	\$865
Junction	4"-0" crushed	0+00		11	junctions	1		11	\$7.92	\$87
Turnaround	4"-0" crushed	2+20	4	22	turnaround	1		22	\$7.92	\$174
Landings	6"-0" jaw-run	4+30	N/A	66	landings	1		66	\$12.38	\$817
Total Rock for Road Segment			119 to 120					207		\$1,934
ROAD SEGMENT		121 to 122		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Subgrade Leveling Rock	4"-0" crushed	1+30.10+50	N/A	11	loads	2		22	\$7.92	\$174
Culvert Bedding and Backfill	3/4"-0" crushed	1+30	N/A	33	culverts	1		33	\$7.92	\$261
Total Rock for Road Segment			121 to 122					55		\$436
ROAD SEGMENT		123 to 124		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Subgrade Leveling Rock	4"-0" crushed	3+50	N/A	11	loads	1		11	\$7.92	\$87
Culvert Bedding and Backfill	3/4"-0" crushed	0+00	N/A	33	culverts	1		33	\$7.92	\$261
Landings	6"-0" jaw-run	3+70	N/A	44	landings	1		44	\$12.38	\$545
Total Rock for Road Segment			123 to 124					88		\$893
ROAD SEGMENT		125 to 126		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Subgrade Leveling Rock	4"-0" crushed	2+50.11+00.37+80.44+0	N/A	11	loads	4		44	\$7.92	\$348
Turnaround	4"-0" crushed	11+85.44+25.53+80	8	44	turnaround	3		132	\$7.92	\$1,045
Surfacing		0+00 to 9+80.14+75 to 20+70.49+55 to 52+90.54+90 to 60+55	2	13	stations	24.75		322	\$7.92	\$2,550
Turnout	3/4"-0" crushed	4+40.54+90	2	11	turnout	1		11	\$7.92	\$87
Junction	3/4"-0" crushed	0+00	4	11	junctions	1		11	\$7.92	\$87
Landings	6"-0" jaw-run	63+65	N/A	44	landings	1		44	\$12.38	\$545
Total Rock for Road Segment			125 to 126					564		\$4,663
ROAD SEGMENT		127 to 128		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Base Rock	4"-0" crushed	0+00 to 2+15	4	25	stations	2.15		54	\$7.92	\$428
Junction	4"-0" crushed	0+00		11	junctions	1		11	\$7.92	\$87
Landings	6"-0" jaw-run	2+15	N/A	44	landings	1		44	\$12.38	\$545
Total Rock for Road Segment			127 to 128					109		\$1,060
ROAD SEGMENT		129 to 130		POINT TO POINT		Sta. to Sta.		TOTAL	Rate/	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of			VOLUME (CY)	Sta./amt.	
Base Rock	4"-0" crushed	0+00 to 2+60	4	25	stations	2.6		65	\$7.92	\$515
Junction	4"-0" crushed	0+00		11	junctions	1		11	\$7.92	\$87
Landings	6"-0" jaw-run	2+60	N/A	44	landings	1		44	\$12.38	\$545
Total Rock for Road Segment			129 to 130					120		\$1,147

ROAD SEGMENT		131 to 132	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of	(CY)		
Subgrade Leveling Rock	4"-0" crushed	N/A	N/A	load	11	44	\$7.92	\$348
Culvert Bedding and Backfill	3/4"-0" crushed	0+00	N/A	culvert	33	33	\$7.92	\$261
Total Rock for Road Segment:			131 to 132	POINT TO POINT		77		\$610
ROAD SEGMENT		133 to 134	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of	(CY)		
Base Rock	4"-0" crushed	0+00 to 3+50	4	station	25	88	\$7.92	\$697
Landings	6"-0" jaw-run	3+50	N/A	landing	44	44	\$12.38	\$545
Total Rock for Road Segment:			133 to 134	POINT TO POINT		132		\$1,242
ROAD SEGMENT		135 to 136	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of	(CY)		
Subgrade Leveling Rock	4"-0" crushed	N/A	N/A	load	11	11	\$7.92	\$87
Total Rock for Road Segment:			135 to 136	POINT TO POINT		11		\$87
ROAD SEGMENT		137 to 138	POINT TO POINT		Sta. to Sta.	TOTAL VOLUME	Rate/ Sta./ amt.	Cost
Application	Rock Size and Type	Location	Depth of Rock (inches)	Volume (CY) per	Number of	(CY)		
Subgrade Leveling Rock	4"-0" crushed	2+65.8+10.13+50.28+20.32+20	N/A	load	11	33	\$7.92	\$261
Turnaround	4"-0" crushed	0+85 to 6+10.15+40 to	8	turnaround	44	2	\$7.92	\$697
Surfacing	3/4"-0" crushed	32+20	2	station	13	24.05	\$7.92	\$2,479
Turnout	3/4"-0" crushed	5+55.29+55.32+20	N/A	turnout	11	33	\$7.92	\$261
Culvert Bedding and Backfill	3/4"-0" crushed	2+65.8+10	N/A	culvert see instructions	2	110	\$7.92	\$871
Landings	6"-0" jaw-run	33+60	N/A	landing	88	88	\$12.38	\$1,089
Total Rock for Road Segment:			137 to 138	POINT TO POINT		665		\$5,659

Processing:		Description		No sta	Rate/sta	Cost
		Water, Process & Compact:		162.95	\$70.47	\$11,483
		Water, Process & Compact:		162.95	\$30.29	\$4,936
						\$0

SUB TOTAL FOR SURFACING	24"-12" r	24"-6" r	12"-6" r	6"-4" j	6"-0" j	4"-0" crushed	1 1/2"-0" crushed	2"-1" drainrock	3/4"-0" crushed	Total
				77	704	1,207			1,705	3,693
										\$59,167

SPECIAL PROJECTS		Description		Cy/Amount	Rate	Cost
		Grass seed for waste areas		50	\$2.00	\$100.00
		Mulch for waste areas		12	\$13.39	\$160.68

SUB TOTAL FOR SPECIAL PROJECTS		Subtotal of Surfacing & Spec. Proj.	Subtotal of Clearing, Exc, Culv.
		\$261	\$59,428
			\$17,588
GRAND TOTAL		\$77,015	

Compiled By: Kraig Kirkpatrick

Date: 03/16/2026

Projects Road Maintenance Cost Summary

Sale: Seven Cow Thin
Date: 20-Mar-26
By: Kraig Kirkpatrick

Type	Equipment/Rationale			Hours	Rate	Cost
Project Work	Grader 14G			20	\$126	\$2,520
Final Haul	Dump Truck 12CY			2	\$110	\$220
Road	FE Loader C966			1	\$105	\$105
Maintenance	Vibratory Roller					\$0
	Water Truck 2,500 gallon					\$0
Total						\$2,845

Production Rates

Grader

Vibratory Roller

Miles/day	Distance(miles)	Days

NOTE: Spot Grade: Nicolai ML, Greasy Spoon, and Bovine ML 11.10 Miles
 _____ Miles
 _____ Miles
 _____ Miles
 _____ Miles
 TOTAL= 11.10 Miles

CRUSHED ROCK COST

SALE NAME: Seven Cow Thin
 PROJECT: 1 and 2
 Stockpile: Northrup and Cow Creek

MATERIAL: 3/4"-0" and 4"-0"

DATE: 03/19/2026
 BY: Kraig Kirkpatrick

Road Segment	Stations	Cubic Yards	ONE WAY HAUL IN MILES							Total Haul
			50 MPH	30 MPH	25 MPH	20 MPH	15 MPH	10 MPH	5 MPH	
1A-1B	3.20	50					1.70	0.50	0.10	2.30
1C-1D	12.00	50					1.70	0.55	0.10	2.35
1E-1F	0.85	43				0.50	0.55	0.50	0.10	1.65
2A-2B	6.65	50				0.70	1.20	0.70	0.10	2.70
3A-3B	33.70	50				0.90	1.20	0.70	0.10	2.90
3E-3F	15.40	50			0.20	1.00	1.40	0.70	0.10	3.40
3K-3L	7.60	50			0.20	1.50	1.50	0.90	0.10	4.20
4A-4B	5.30	287			0.20	1.10	1.30	0.70	0.10	3.40
4C-4D	3.20	160			0.20	1.10	1.45	0.70	0.10	3.55
5A-5B	1.60	84			0.20	1.30	1.55	0.85	0.10	4.00
5C-5D	1.40	81			0.20	1.30	1.60	0.85	0.10	4.05
5E-5F	1.35	45			0.20	1.40	1.60	0.85	0.10	4.15
5G-5H	0.85	43			0.20	1.35	1.55	0.85	0.10	4.05
7A-7B	1.60	80			0.20	2.50	2.50	1.15	0.10	6.45
7C-7D	6.75	417			0.20	2.60	2.50	1.15	0.10	6.55
7E-7F	4.80	262			0.20	2.60	2.60	1.45	0.10	6.95
I1-I2	79.45	342					0.45	0.40	0.10	0.95
I3-I4	28.00	91					1.70	0.50	0.10	2.30
I5-I6	9.15	11				0.35	1.70	0.50	0.10	2.65
I7-I8	5.20	86			0.20	0.35	1.70	0.50	0.10	2.85
I9-I10	1.15	40			0.20	0.45	1.70	0.50	0.10	2.95
I11-I12	29.70	264			0.20	0.85	1.70	0.50	0.10	3.35
I13-I14	10.45	270			0.20	0.80	1.70	0.50	0.10	3.30
I15-I16	1.20	41			0.20	0.90	1.70	0.50	0.10	3.40
I17-I18	3.20	113			0.20	1.00	1.70	0.50	0.10	3.50
I19-I20	4.30	141			0.20	1.10	1.45	0.70	0.10	3.55
I21-I22	11.05	55			0.20	0.80	1.70	0.50	0.10	3.30
I23-I24	3.70	44			0.20	0.90	1.70	0.50	0.10	3.40
I25-I26	63.65	520			0.20	1.35	1.65	1.00	0.10	4.30
I27-I28	2.15	65			0.20	1.30	1.50	0.85	0.10	3.95
I29-I30	2.60	76			0.20	1.60	1.65	1.00	0.10	4.55
I31-I32	31.75	77			0.20	1.30	1.55	0.85	0.10	4.00
I33-I34	3.50	88			0.20	1.55	1.60	1.00	0.10	4.45
I35-I36	2.10	11			0.20	1.55	1.60	1.00	0.10	4.45
I37-I38	33.60	577			0.20	2.35	2.40	1.15	0.10	6.20
TOTAL		432.15								AVERAGE HAUL 4.21
		4,714								
CUBIC YARD WEIGHTED HAUL					0.17	1.36	1.74	0.83	0.10	
Average Round Trip Distance (miles)										8.41

ROCK HAUL:

Truck type: D20 No. trucks: 2
 Delay min.: 8 Efficiency: 85%

Ave haul: \$6.46 /cy
 Load: \$0.53 /cy
 Spread: \$0.93 /cy

Truck type: D12 No. trucks: 5
 Delay min.: 6 Efficiency: 85%

Truck type: D10 No. trucks: 5
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 993

CRUSHED ROCK HAUL COSTS 4,714 cy @ **\$7.92 /cy**

PIT RUN ROCK COST

SALE NAME:	Seven Cow Thin
PROJECT:	1 and 2
QUARRY:	Viewpoint

MATERIAL: Jaw Run

DATE: 03/20/2026
BY: Kraig Kirkpatrick

Road Segment	Stations	Cubic Yards	ONE WAY HAUL IN MILES							Total Haul
			50 MPH	30 MPH	25 MPH	20 MPH	15 MPH	10 MPH	5 MPH	
4A-4B	5.30	66			2.00	2.50	1.50	0.60	0.10	6.70
4C-4D	3.20	66			2.00	2.50	1.50	0.60	0.10	6.70
5A-5B	1.60	44			2.00	1.85	1.00	0.60	0.10	5.55
5C-5D	1.40	66			1.95	1.85	1.00	0.60	0.10	5.50
5E-5F	1.35	44			1.90	1.85	1.00	0.60	0.10	5.45
5G-5H	0.85	66			2.00	2.20	1.35	0.60	0.10	6.25
7A-7B	1.60	66			2.00	2.20	1.35	0.60	0.10	6.25
7C-7D	6.75	66			2.00	2.25	1.35	0.60	0.10	6.30
7E-7F	4.80	66			2.00	2.25	1.35	0.60	0.10	6.30
I1-I2	79.45	77			2.00	4.00	2.90	1.40	0.10	10.40
I5-I6	9.15	44			2.00	2.90	1.40	0.60	0.10	7.00
I7-I8	5.20	44			2.00	2.65	1.40	0.60	0.10	6.75
I9-I10	1.15	44			2.00	2.55	1.30	0.60	0.10	6.55
I11-I12	29.70	44			2.00	2.50	1.50	0.60	0.10	6.70
I13-I14	10.45	44			2.00	2.50	1.45	0.60	0.10	6.65
I15-I16	1.20	44			2.00	2.50	1.50	0.60	0.10	6.70
I17-I18	3.20	66			2.00	2.50	1.50	0.60	0.10	6.70
I19-I20	4.30	66			2.00	2.70	1.45	0.60	0.10	6.85
I23-I24	3.70	44			2.00	2.55	1.30	0.60	0.10	6.55
I25-I26	63.65	44			2.00	2.45	1.30	0.60	0.10	6.45
I27-I28	2.15	44			1.00	2.30	1.10	0.60	0.10	5.10
I29-I30	2.60	44			2.00	2.50	1.50	0.60	0.10	6.70
I33-I34	3.50	44			1.90	1.85	0.65	0.60	0.10	5.10
I37-I38	33.60	88			2.00	2.30	1.00	0.60	0.10	6.00

ROCK HAUL:

Truck type: D20 No. trucks: _____
 Delay min.: 8 Efficiency: 85%

Ave haul:	\$9.06	/cy
Load:	\$1.19	/cy
Spread:	\$2.13	/cy

Truck type:	<u>D12</u>	No. trucks:	<u>5</u>
Delay min.:	<u>6</u>	Efficiency:	<u>85%</u>

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 485

PIT RUN ROCK HAUL COSTS 1,331 cy @ \$12.38 /cy

RIP RAP ROCK COST

SALE NAME:	Seven Cow Thin
PROJECT:	1
QUARRY:	Viewpoint

MATERIAL: Rip Rap

DATE: 03/20/2026
BY: Kraig Kirkpatrick

[illegible]

ROCK HAUL:

Truck type:	<u>D12</u>	No. trucks:	<u>2</u>
Delay min.:	<u>6</u>	Efficiency:	<u>85%</u>

Ave haul: \$8.24 /cy
Load: \$2.99 /cy
Develop: _____ /cy

Truck type: D10 No. trucks:
 Delay min.: 5 Efficiency: 85%

Production: cy/day = 213

RIP RAP ROCK HAUL COSTS

110 cy @ \$11.23 /cy

Timber Sale
Vacating Costs (Total)

Work Description	Stations	Pump	C330	C315	D24 trk	D10/12 trk	D-8	Labor	Straw-bales	Seed-lbs
V1 to V2	0+00 to 4+85		8.00						12	45
1A to 1B	0+00 to 3+20		1.50							
1C to 1D	0+00 to 12+00		7.50			1.00			6.00	5.00
1E to 1F	0+00 to 0+85		1.00							
2A to 2B	0+00 to 6+65		4.50						4	5
3A to 3B	0+00 to 33+70		8.00							
3C to 3D	0+00 to 3+90		1.50							
3E to 3F	0+00 to 15+40		4.50							
3G to 3H	0+00 to 1+75		0.50							
3I to 3J	0+00 to 6+30		1.00							
3K to 3L	0+00 to 7+60		1.50							
3M to 3N	0+00 to 2+00		0.50							
111 to 112	20+10 to 29+70		2.50							
125 to 126	45+15 to 63+65		3.00							
131 to 132	29+35 to 31+75		1.00							
Total Quantity (Hours)		0.00	46.50	0.00	0.00	1.00	0.00	0.00	22.00	55.00
Rates		\$14.00	\$195.00	\$127.00	\$159.00	\$110.00	\$198.00	\$50.00	\$13.39	\$2.00
Total Dollars		\$0	\$9,068	\$0	\$0	\$110	\$0	\$0	\$295	\$110

Total Cost
Total Stations
Total Miles

95.75
1.81

\$9,582

Timber Sale Costs All Season

[illegible]

Seven Cow Thin TIMBER CRUISE REPORT FY 2026

1. **Sale Area Location:** Portions of Sections 4, 5, & 8 of T6N, R6W, and Portions of Sections 32, 33, & 34 of T7N, R6W, W.M., Clatsop County, OR.
2. **Fund Distribution:** BOF 100% Tax Code: 8-01 (70%) 30-05 (30%)
3. **Sale Acreage by Area:**

Unit	Harvest Type	Gross Acres	Stream Buffer Acres	Non-Thinnable Area	Reserve Tree Area	Retention Area*	Patch Cuts*	Existing R/W Acres	New R/W	Net Acres	Survey Method
1	Partial Cut	56	3	-	-	1	2	<1	1	49	GIS
2	Partial Cut	54	11	9	-	1	2	<1	<1	31	GIS
3	Partial Cut	198	40	14	-	7	3	2	5	127	GIS
4	Partial Cut	104	19	1	-	1	2	3	1	77	GIS
5	Partial Cut	74	8	4	-	2	2	2	<1	56	GIS
6	Partial Cut	36	10	3	1**	1	1	1	-	19	GIS
7	Partial Cut	69	14	-	-	1	1	1	1	51	GIS
8	R/W	-	-	-	-	-	-	-	-	8	LxW
	Patch Cuts*	-	-	-	-	-	-	-	-	13	
TOTAL		591	105	31	1	14	-	9	-	431	

*Group Selection Areas include Patch Cuts, Retention Areas, and Non-Thinnable Areas which approximately balance out. Non-thinnable areas are dominated by hardwoods (a reserve species).

**The reserve tree area in Unit 6 is a geotech buffer for a seasonal stream in this location.

4. Cruisers and Cruise Dates: Avery Petersen, John Czarnecki, Ryan Simpson, Michele Huffman, and Kevin Berry (03/06/26 – 03/12/26)

5. Cruise Method and Computation:

Units 1-7: Units 1-7 were variable plot cruised with a 33.61 BAF. A total of 86 plots were sampled on a 10 by 6 chain spacing with a grade to count ratio of 1:2, resulting in 32 grade plots and 54 count plots*.

Unit 8 (R/W): Right-of-way consists of new roads and landings within Units 1-7. Cruise data for Unit 8 was obtained from the combined U1-7 cruise and acreages have been adjusted accordingly.

Group Selection Patch Cuts: Group Selection Patch Cuts (Group Selection B) are a series of approximately ½ acre gaps in Units 1-7 which will compliment Group Selection A – Retention Areas. Cruise data for these areas was obtained from the combined U1-7 cruise and acreages have been adjusted accordingly.

*The reported numbers of grade and cruise plots vary from those indicated in the SuperACE reports for the U1-7 TAKE Statistics due to recording 8 blank plots where the basal area did not meet the thinning specifications and no take trees were designated.

Data was collected on Allegro 2 data collectors and downloaded to the Atterbury SuperACE 2008 program for computing. See the attached Cruise Design for more details on the cruise method. The cruise calculations were processed in the Astoria District office.

UNIT(s)	CRUISE	TRACT	TYPE	ACRES
U1-7	7COWTHIN	U1-7 TAKE	00PC	423
U1-7	7COWTHIN	U1-7 LEAVE	00PC	423
8 (R/W)	7COWTHIN	U8_RW	RW	8

6. Timber Description:

Unit 1, 2, 3, 4, 5, 6, and 7 are partial cuts consisting of 410 acres with an average age of 38 years. The stands consist of Douglas-fir. The average take Douglas-fir is approximately 12 inches DBH and 46 feet to a merchantable top. The average net volume to be harvested per acre is 11 MBF. All trees were cruised to a merchantable top of six inches DBH, 40% of form point, or an otherwise anticipated break point. The target basal area for Units 1-7 is 140 square feet. The target stand density index (SDI) for conifer is 33%.

Unit 8 (R/W) and Group Selection Patch Cuts consist of approximately 8 acres of timber from Units 1, 2, 3, 4, 5, & 7, less than one acre of non-stocked out of unit Right-of-Way, and 13 acres of group selection patch cuts. Unit 8 (R/W) and group selection patch cuts are similar to the timber description for Units 1-7. The average take Douglas-fir is approximately 14 inches DBH and 53 feet to a merchantable top. The average take red alder is approximately 11 inches DBH and 31 feet to a merchantable top. The average take bigleaf maple is approximately 10 inches DBH and 21 feet to a merchantable top. The average take western hemlock is approximately 21 inches DBH and 99 feet to a merchantable top. Average net volume to be harvested per acre is 28 MBF.

7. Statistical Analysis and Stand Summary:

Statistics for Stand B.F. volumes

Unit	Estimated CV	Target SE%	Actual CV	Actual SE%
1-7	30%	13%	28.2%	3.0%

8. Volumes by Species and Log Grade:

Volumes by Species and Grade for All Sale Areas: (MBF) Volumes do not include "in-growth."

Conifer

Species	DBH	Net Vol.	2 Saw	3 Saw	4 Saw	TONS* (Net)	% D & B	% Sale
Douglas-fir	12"	4,697	82	3,611	1,004	35,227	1.1%	100%
TOTALS	-	4,697	82	3,611	1,004	35,227	-	-

*7.5 tons per MBF Douglas-fir conversion rate was applied.

Hardwood

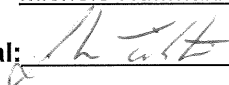
Species	DBH	Net Vol.	12"+	10"-11"	8"-9"	6"-7"	% D & B	% Sale
Red alder	11"	16	0	3	3	10	0%	<1%
TOTALS	-	16	0	3	3	10	-	-

TOTAL VOLUME	4,713 MBF
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9. Approvals:

Prepared by: Michele Huffman/Ryan Simpson

Date: 03/20/2026

Unit Forester Approval: 

Date: 3/27/2026

10. Attachments:
- Cruise Design and Maps (5 pages)
 - Volume Report (3 pages)
 - Statistics Report (5 pages)
 - Stand Table Summary-Leave (1 page)
 - Log Stock Table (2 pages)
 - Stand Table Summary-Take (1 page)

**CRUISE DESIGN
ASTORIA DISTRICT**

Sale Name: Seven Cow Thin

Unit 1, 2, 3, 4, 5, 6, & 7

Harvest Type: Partial Cut

Approx. Cruise Acres: 431 **Estimated CV%** 30 Net BF/Acre **SE% Objective** 13% Net BF/Acre

Planned Sale Volume: 3,397 MBF **Estimated Sale Area Value/Acre:** \$2,700/Acre

A. Cruise Goals: (a) Grade minimum 70 conifer TAKE trees.
(b) Sample 86 plots (32 grade/ 54 count); (c) Other goals (X Determine "automark" thinning standards; X Determine log grades for sale value; X Determine snag and leave tree species and sizes.

B. Cruise Design:

1. Plot Cruises: BAF: 33.61

Cruise Line Direction:

Unit 1: 56°/236°

Unit 5: 125°/305°

Unit 2: 233°/53°

Unit 6: 108°/288°

Unit 3: 286°/106°

Unit 7: 339°/159°

Unit 4: 45°/225°

Cruise Line Spacing 10 (chains) 660 (Feet)

Cruise Plot Spacing 6 (chains) 396 (Feet)

Grade/Count Ratio 1:2

Residual Basal Area target is 140 sq. ft. Cruiser needs to select an average of 4 leave trees per plot and 5 every third plot. Cruise all take and leave trees.

Leave all species other than Douglas-fir. Leave Douglas-fir if more than 4 inches greater at DBH than other species.

Take plots as marked on cruise map, offsetting as needed (record offset).

Grade minor species (true fir, cedar, maple, spruce, etc.) on count plots if encountered.

DO NOT: record any 22' log lengths, or any 12', 24', or 32' log lengths for hardwoods.

DO NOT: record snags < 15" DBH or record snag measurements on count plots.

C. Tree Measurements:

1. Diameter: Minimum DBH to cruise is 8" for conifers and 8" for hardwoods.
Record dbh to nearest 1/2" for trees < 16", to nearest 1" for trees 16" - 24", and to nearest 2" for trees > 24". If tree diameters are estimated (only estimate on variable plot cruises), then record to closest estimate.

2. Bole Length: Record bole length to nearest foot at TCD. For trees greater than 100 feet in merchantable height, estimating to the nearest 5 feet is acceptable.

3. **Top Cruise Diameter (TCD):** Minimum top outside bark is 7" for conifers and 7" for hardwoods or 40 % of dob at 16' form point. Generally, use 7" outside bark for trees < 20" dbh and 40% of dob @ FP for conifer trees > 20" dbh.
4. **Form Factors:** (1) Measure or estimate a 16' form factor for every conifer tree measured/graded; OR (2) Measure a minimum of 20 form factors for each major conifer species on the cruise area and use these to calculate average FF for the species on the cruise. Hardwood form factors are a Standard 87.
5. **Tree Segments:** Record log segments in "standard" log lengths in general use, such as 32' and 40' lengths, whenever possible. Do not record odd segments just to maximize grade. Cull segments can be any length. For conifers, minimum merchantable segment length is 12'; for hardwoods, it's 8'. Maximum segment length is 40'. One foot of trim is assumed for each merch segment. Do not use "double dash" (--) feature on the data recorder except for the top segment of the tree. Hardwoods shall be recorded in 8' and 10' multiples.
6. **Species, Sort, and Grade Codes:**
 - A. Species: Record as D (Douglas-fir); H (Western hemlock); S (Sitka Spruce); C (Western red cedar); NF (Noble fir); GF (Grand fir); SF (Silver fir); A (Red alder); M (Bigleaf maple); SN (Snag). For "leave trees", add an "L" to the species code (such as DL, HL, CL, etc.).
 - B. Sort: Use code "1" (Domestic).
 - C. Grade: A = 1 Peeler; B = 2 Peeler; C = 3 Peeler; D = Special Mill; 2 = 2 Sawmill; 3 = 3 Sawmill; 4 = 4 Sawmill; R = Camp Run; 0 = Cull
Hardwoods: Alder Grades: 12" + = 1 Sawmill; 10"-12" = 2 Sawmill; 10"-8" = 3 Sawmill; and 8"-6" 4 Sawmill, or R = Camp Run; 0 = Cull.
All Maple Camp Run = R
- **Oversize Spruce (2-Saw or better): Measure bole height to 27" outside bark. Record separately.**
Bars = : 4"at 66', 3"at 50', and 2"at 33'.
Grade oversized 3-SAW (DIB $\geq$ 12", knots > 2 $\frac{1}{2}$ " inside scaling cylinder affecting > 50% of log)
7. **Deductions:** Estimate visible defect or damage as a "length deduction" (most often), or as a "diameter deduction," as applicable. Estimate hidden defect and breakage (usually some breakage is encountered in trees > 100 feet in height) on a "per tree" basis. Steep and broken topography generally results in higher breakage percentages than gentler topography, and hemlock generally breaks more than D-fir and spruce.
8. **Standard Field Procedures: Plot Type Cruises:** Mark cruise line beginning and end points with blue/yellow flagging. Write plot identification numbers and line direction on the ribbon. At each plot, tie yellow flagging above eye level near plot center and another yellow flagging around a sturdy wooden stake marking plot center. On each yellow flagging, write the plot identification number. Between plots, along the cruise line, tie blue flagging at inter-visible points, not to exceed 100' apart. On "measure/grade" plots write the tree number and/or tree diameter on at least the first measured tree (clockwise from the line direction) in yellow paint. All trees on the plot may be marked this way, if the cruiser chooses.

9. Cruising Equipment: Relaskop, Rangefinder, Logger's Tape (with dbh on back), Compass, Allegro II Data Recorder, Cruise Design, Cruise Map, Yellow Flagging, Blue Flagging, Yellow Paint, Permanent Marker.

10. Attachments: A. Cruise Map (showing cruise unit boundaries, roads, streams, approx. acres/unit, cruise lines and plot locations, legal description and section lines, BAF or plot size, measure/count plot ratio, north arrow, and scale.

Cruise Design by: Justin Bush

Approved by: JH-16

Date: 3/6/2026

TIMBER CRUISE MAP

OF TIMBER SALE
SEVEN COW THIN
PORTIONS OF SECTIONS 4, 5, & 8,
T6N, R6W, AND SECTIONS 32, 33,
& 34, T7N, R6W, W.M.,
CLATSOP COUNTY, OREGON

AZ: (See Below)

BAF: 33.61

Line Spacing: 10 ch. (660 ft)

Plot Spacing: 6 ch. (396 ft)

Count Plots: 54

Grade Plots: 32

Total Plots: 86

Approximate Cruise Acres = 431

Residual BA target = 140 sq. ft./acre

0 500 1,000 2,000
Feet

1 inch = 1,000 feet



T7N, R6W

T6N, R6W

6

5

32 33

5

4

Line 5

Line 4

Line 3

Line 2

Line 1

Line 6

Line 13

Line 14

Line 15

Line 16

Line 8

Line 9

Line 10

Line 11

Line 12

Bovine

Mainline

Northrup Creek

Cow Creek

56°/236°

233°/53°

286°/106°

108°/288°

AP17

AP15

AP14

AP13

AP24

AP21

AP22

AP23

KB04

KB03

M11

M08

M07

M10

M09

CZ09

CZ08

CZ07

CZ06

CZ05

CZ04

CZ03

CZ02

CZ01

AP01

AP02

AP03

AP04

AP19

AP18

AP20

CZ19

CZ18

CZ17

CZ16

CZ15

CZ14

CZ13

CZ12

CZ11

RS05

RS04

RS03

RS02

RS01

RS06

RS07

RS08

RS09

RS10

Legend

- Ownership Boundary
- Timber Sale Boundary
- Paved Road
- Surfaced Road
- Type F Stream - Perennial
- Type F Stream - Seasonal
- Type N Stream - Perennial
- Type N Stream - Seasonal
- Stream Buffer
- Count Plot
- Grade Plot
- Drop Plot
- Cruise Line
- Section Line

TIMBER CRUISE MAP

OF TIMBER SALE
SEVEN COW THIN
PORTIONS OF SECTIONS 4, 5, & 8,
T6N, R6W, AND SECTIONS 32, 33,
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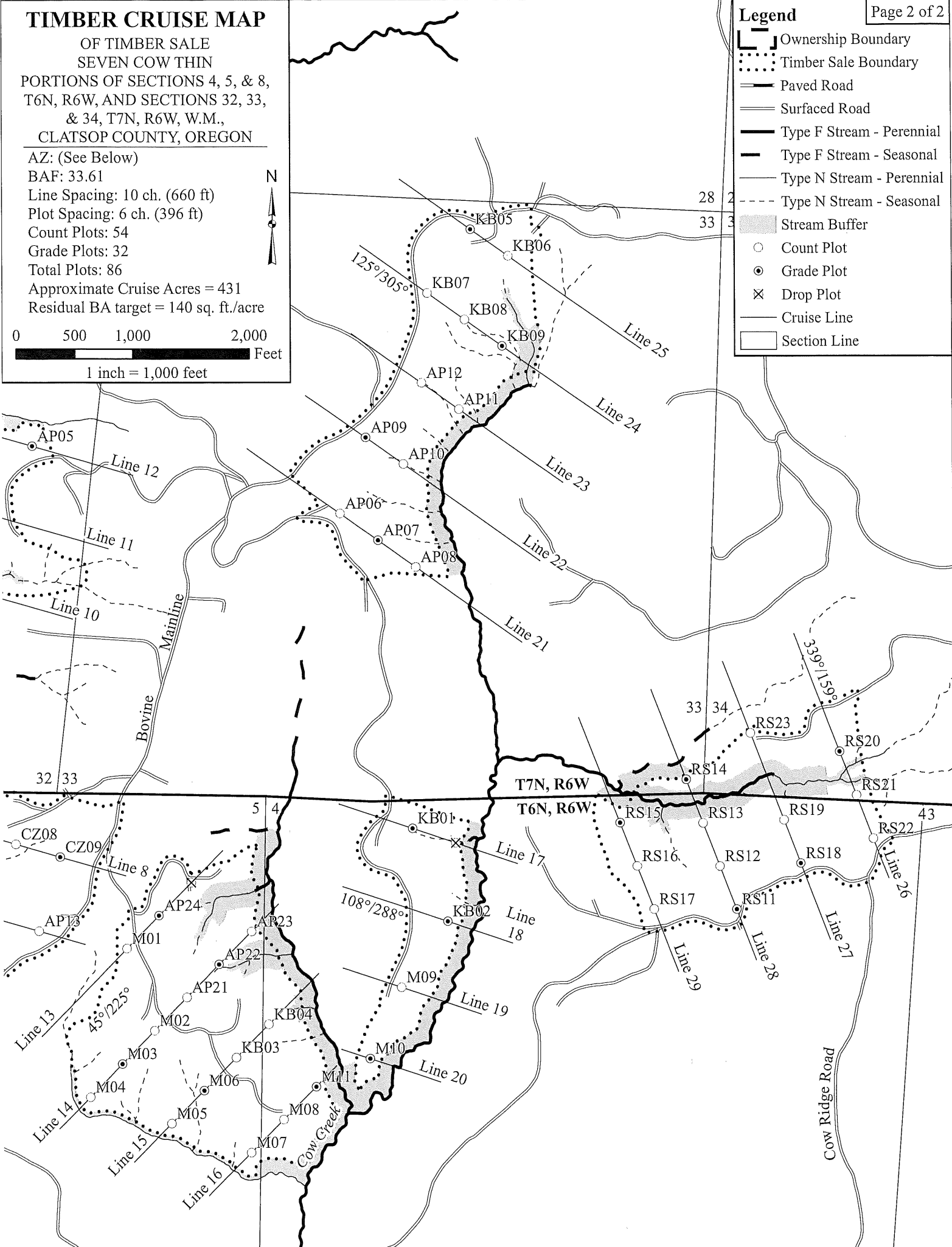
0 500 1,000 2,000 Feet

1 inch = 1,000 feet

N

Legend

- Ownership Boundary
- Timber Sale Boundary
- Paved Road
- Surfaced Road
- Type F Stream - Perennial
- Type F Stream - Seasonal
- Type N Stream - Perennial
- Type N Stream - Seasonal
- Stream Buffer
- Count Plot
- Grade Plot
- Drop Plot
- Cruise Line
- Section Line



TC		PSPCSTGR		Species, Sort Grade - Board Foot Volumes (Project)																	
T06N R06W S05 Ty00PC 423.00 T06N R06W S05 Ty00PC 8.00				Project: 7COWTHIN Acres 431.00														Page 1 Date 3/23/2026 Time 12:42:56PM			
Spp	S T	So rt	Gr ad	% Net BdFt	Bd. Ft. per Acre			Total Net MBF	Percent of Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln Ft	Dia In	Bd Ft	CF/ Lf	
					4-5	6-11	12-16		17+	12-20	21-30	31-35	36-99								
D			DOCU														15	10		0.00	1.3
D			DO2S	1	.6	191	190	82			98	2	1	2	3	94	38	14	258	1.72	.7
D			DO3S	77	1.1	8,470	8,376	3,611	100				0	5	19	76	37	7	76	0.59	110.0
D			DO4S	22	1.0	2,352	2,328	1,004	100				42	57	2		21	6	26	0.39	88.4
D Totals				100	1.1	11,013	10,894	4,697	98	2	0		9	16	15	60	30	7	54	0.53	200.5
A			DO2S	16		6	6	3	100				27	35		38	25	10	95	1.07	.1
A			DO3S	20		7	7	3	100					45		55	32	8	66	0.71	.1
A			DO4S	64		24	24	10	100				33	4	6	57	23	6	31	0.43	.8
A Totals				0		37	37	16	100				25	17	4	53	25	7	39	0.52	.9
H			DO2S	66		1	1	0		100						100	40	15	360	1.98	.0
H			DO3S	28		0	0	0	100							100	40	10	150	0.97	.0
H			DO4S	6		0	0	0	100				100				16	7	30	0.50	.0
H Totals				0		2	2	0	33	67			6			94	32	11	180	1.31	.0
M			DO4S	100	7.1	1	1	0	100				69	31			20	6	24	0.44	.0
M Totals				0	7.1	1	1	0	100				69	31			20	6	24	0.44	.0
Totals					1.1	11,053	10,933	4,713	98	2	0		9	16	15	60	30	7	54	0.53	201.5

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1					
				Project: 7COWTHIN										Date		3/23/2026					
														Time		12:44:14PM					
T06N R06W S05 T00PC										T06N R06W S05 T00PC											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
06N		06W		05		U1-7_TAKE		00PC		423.00		86		96		1		W			
S So Gr T rt ad Spp				%	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log			Logs Per /Acre	
				Net BdFt					Log Scale Dia. 4-5 6-11 12-16 17+				Log Length 12-20 21-30 31-35 36-99				Ln Dia Bd CF/ Ft In Ft Lf				
D		DO		CU		1	133 133		56	100				100				16 10 0.00			1.2
D		DO		2S			100			5 19 76				40 14 290 1.78							
D		DO		3S			100			42 57 2				37 7 76 0.59							
D		DO		4S			100			42 57 2				21 6 26 0.39							
D		Totals				100	1.1 10,722 10,606		4,486	99 1				9 16 15 60				30 7 54 0.52			197.0
Type Totals							1.1 10,722 10,606		4,486	99 1				9 16 15 60				30 7 54 0.52			197.0

T		TSPCSTGR		Species, Sort Grade - Board Foot Volumes (Type)										Page		1					
				Project: 7COWTHIN										Date		3/23/2026					
														Time		12:44:14PM					
T06N R06W S05 T00PC										T06N R06W S05 T00PC											
Twp		Rge		Sec		Tract		Type		Acres		Plots		Sample Trees		CuFt		BdFt			
06N		06W		05		U8_RW		00PC		8.00		86		235		1		W			
S So Gr Twp Rge ad Spp				% Net BdFt	Bd. Ft. per Acre Def% Gross Net			Total Net MBF	Percent Net Board Foot Volume								Average Log				Logs Per /Acre
									Log Scale Dia.				Log Length				Ln Dia Bd CF/ Ft In Ft Lf				
D DO CU									95 5				4 5 10 82				11 11 0.00				8.1
D DO 2S				12	2.0 3,253 3,188			26	100				0 4 19 77				35 13 207 1.62				15.4
D DO 3S				72	1.0 19,136 18,947			152	100				45 54 1				37 8 91 0.69				209.3
D DO 4S				16	.8 3,990 3,959			32	100				45 54 1				21 6 26 0.40				153.3
D Totals				92	1.1 26,378 26,093			210 269	88 12 1				7 11 15 66				30 8 68 0.65				386.1
A DO 2S				16	332 332			3	100				27 35 38				25 10 95 1.07				3.5
A DO 3S				20	397 397			3	100				45 55				32 8 66 0.71				6.0
A DO 4S				64	1,276 1,276			10	100				33 4 6 57				23 6 31 0.43				41.6
A Totals				7	2,005 2,005			16	100				25 17 4 53				25 7 39 0.52				51.1
M DO 4S				100	7.1 52 48			0	100				69 31				20 6 24 0.44				2.1
M Totals				0	7.1 52 48			0	100				69 31				20 6 24 0.44				2.1
H DO 2S				66	58 58			0	100				100				40 15 360 1.98				.2
H DO 3S				28	24 24			0	100				100				40 10 150 0.97				.2
H DO 4S				6	5 5			0	100				100				16 7 30 0.50				.2
H Totals				0	88 88			0 1	33 67				6 94				32 11 180 1.31				.5
Type Totals					1.0 28,524 28,235			226	89 11 1				9 12 14 65				29 7 64 0.64				439.7

PROJECT STATISTICS										PAGE	1
PROJECT 7COWTHIN										DATE	3/23/2026
TWP	RGE	SC	TRACT	TYPE		ACRES	PLOTS	TREES	CuFt	BdFt	
06N	06	05	U1-7	00PC		423.00	86	674	1	W	
			PLOTS	TREES	TREES PER PLOT	ESTIMATED TOTAL TREES	PERCENT SAMPLE TREES				
TOTAL			86	674	7.8						
CRUISE			32	236	7.4	116,520	.2				
DBH COUNT											
REFOREST											
COUNT			54	437	8.1						
BLANKS											
100 %											
STAND SUMMARY											
SAMPLE TREES			TREES /ACRE	AVG DBH	BOLE LEN	REL DEN	BASAL AREA	GROSS BF/AC	NET BF/AC	GROSS CF/AC	NET CF/AC
DOUGLEAV			117	94.2	15.9	63	32.5	129.4	15,659	15,490	4,468
DOUG FIR			95	133.6	12.0	46	30.2	104.7	10,722	10,606	3,072
ALDRLEAV			19	42.9	10.6	31	8.0	26.2	2,005	2,005	648
SNAG			2	2.6	10.5	29	0.5	1.6			
MAPLELV			2	2.1	10.2	21	0.4	1.2	52	48	18
HEMLEAV			1	.2	21.0	99	0.1	.4	88	88	20
TOTAL			236	275.5	13.2	49	72.4	263.4	28,527	28,238	8,226
CONFIDENCE LIMITS OF THE SAMPLE											
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR											
CL	68.1	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5 10		15		
DOUGLEAV			56.0	5.2	180	189	199				
DOUG FIR			58.3	6.0	87	93	99				
ALDRLEAV			74.4	17.5	53	64	75				
SNAG											
MAPLELV			47.1	44.1	17	30	43				
HEMLEAV											
TOTAL			73.4	4.8	132	139	146	215	54	24	
CL	68.1	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5 10		15		
DOUGLEAV			35.5	3.8	91	94	98				
DOUG FIR			52.9	5.7	126	134	141				
ALDRLEAV			215.1	23.2	33	43	53				
SNAG			651.9	70.2	1	3	4				
MAPLELV			598.7	64.5	1	2	3				
HEMLEAV			927.4	99.9	0	0	0				
TOTAL			33.8	3.6	265	275	286	46	11	5	
CL	68.1	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5 10		15		
DOUGLEAV			33.0	3.6	125	129	134				
DOUG FIR			53.8	5.8	99	105	111				
ALDRLEAV			201.2	21.7	21	26	32				
SNAG			651.9	70.2	0	2	3				
MAPLELV			529.1	57.0	1	1	2				
HEMLEAV			927.4	99.9	0	0	1				
TOTAL			25.7	2.8	256	263	271	26	7	3	
CL	68.1	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD:	1.0	VAR. %	S.E. %	LOW	AVG	HIGH	5 10		15		
DOUGLEAV			34.6	3.7	14,913	15,490	16,067				
DOUG FIR			56.1	6.0	9,965	10,606	11,248				
ALDRLEAV			195.9	21.1	1,582	2,005	2,428				
SNAG											

TC PSTATS				PROJECT 7COWTHIN				PAGE 2	DATE 3/23/2026	
TWP	RGE	SC	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	06	05	U1-7	00PC	423.00	86	674	1	W	
CL	68.1		COEFF		NET BF/ACRE		# OF PLOTS REQ.		INF. POP.	
SD:	1.00		VAR.	S.E.%	LOW	AVG	HIGH	5	10	15
MAPLELV			555.6	59.9	19	48	77			
HEMLEAV			927.4	99.9	0	88	175			
TOTAL			28.2	3.0	27,381	28,238	29,095	32	8	4

TC TSTATS				STATISTICS				PAGE	1	
				PROJECT	7COWTHIN			DATE	3/23/2026	
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	06W	05	U8 RW	00PC	8.00	86	670	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		86	670	7.8						
CRUISE		32	234	7.3	2,183		10.7			
DBH COUNT										
REFOREST										
COUNT		54	435	8.1						
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR		212	227.9	13.7	53	63.2	234.1	26,378	26,093	7,539
R ALDER		19	42.9	10.6	31	8.0	26.2	2,005	2,005	648
BL MAPLE		2	2.1	10.2	21	0.4	1.2	52	48	18
WHEMLOCK		1	.2	21.0	99	0.1	.4	88	88	20
TOTAL		234	272.9	13.3	49	71.9	261.8	28,524	28,235	8,225
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		67.7	4.6	139	146	153				
R ALDER		74.4	17.5	53	64	75				
BL MAPLE		47.1	44.1	17	30	43				
WHEMLOCK										
TOTAL		72.6	4.7	134	140	147	210	53	23	
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		35.5	3.8	219	228	237				
R ALDER		215.1	23.2	33	43	53				
BL MAPLE		598.7	64.5	1	2	3				
WHEMLOCK		927.4	99.9	0	0	0				
TOTAL		31.8	3.4	264	273	282	40	10	4	
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		34.7	3.7	225	234	243				
R ALDER		201.2	21.7	21	26	32				
BL MAPLE		529.1	57.0	1	1	2				
WHEMLOCK		927.4	99.9	0	0	1				
TOTAL		26.6	2.9	254	262	269	28	7	3	
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH	5 10		15		
DOUG FIR		36.3	3.9	25,072	26,093	27,114				
R ALDER		195.9	21.1	1,582	2,005	2,428				
BL MAPLE		555.6	59.9	19	48	77				
WHEMLOCK		927.4	99.9	0	88	175				
TOTAL		28.9	3.1	27,355	28,235	29,114	33	8	4	

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT 7COWTHIN		DATE 3/23/2026				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	06W	05	U1-7 LEAVE	00PC	423.00	86	406	1	W	
				TREES	ESTIMATED	PERCENT				
				PER PLOT	TOTAL	SAMPLE				
					TREES	TREES				
TOTAL		86	406	4.7						
CRUISE		32	141	4.4	60,016			.2		
DBH COUNT										
REFOREST										
COUNT		54	265	4.9						
BLANKS										
100 %										
STAND SUMMARY										
SAMPLE		TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
TREES		/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUGLEAV		117	94.2	15.9	63	32.5	129.4	15,659	15,490	4,468
ALDRLEAV		19	42.9	10.6	31	8.0	26.2	2,005	2,005	648
SNAG		2	2.6	10.5	29	0.5	1.6			
MAPLELV		2	2.1	10.2	21	0.4	1.2	52	48	18
HEMLEAV		1	.2	21.0	99	0.1	.4	88	88	20
TOTAL		141	141.9	14.3	52	41.9	158.7	17,804	17,632	5,154
CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										
CL: 68.1 %		COEFF	SAMPLE TREES - BF				# OF TREES REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUGLEAV		56.0	5.2	180	189	199				
ALDRLEAV		74.4	17.5	53	64	75				
SNAG										
MAPLELV		47.1	44.1	17	30	43				
HEMLEAV										
TOTAL		67.4	5.7	160	170	180	181	45	20	
CL: 68.1 %		COEFF	TREES/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUGLEAV		35.5	3.8	91	94	98				
ALDRLEAV		215.1	23.2	33	43	53				
SNAG		651.9	70.2	1	3	4				
MAPLELV		598.7	64.5	1	2	3				
HEMLEAV		927.4	99.9	0	0	0				
TOTAL		52.0	5.6	134	142	150	108	27	12	
CL: 68.1 %		COEFF	BASAL AREA/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUGLEAV		33.0	3.6	125	129	134				
ALDRLEAV		201.2	21.7	21	26	32				
SNAG		651.9	70.2	0	2	3				
MAPLELV		529.1	57.0	1	1	2				
HEMLEAV		927.4	99.9	0	0	1				
TOTAL		20.2	2.2	155	159	162	16	4	2	
CL: 68.1 %		COEFF	NET BF/ACRE				# OF PLOTS REQ.		INF. POP.	
SD: 1.0		VAR.%	S.E.%	LOW	AVG	HIGH	5	10	15	
DOUGLEAV		34.6	3.7	14,913	15,490	16,067				
ALDRLEAV		195.9	21.1	1,582	2,005	2,428				
SNAG										
MAPLELV		555.6	59.9	19	48	77				
HEMLEAV		927.4	99.9	0	88	175				
TOTAL		19.8	2.1	17,256	17,632	18,007	16	4	2	

TC TSTATS				STATISTICS				PAGE 1		
				PROJECT	7COWTHIN	DATE 3/23/2026				
TWP	RGE	SECT	TRACT	TYPE	ACRES	PLOTS	TREES	CuFt	BdFt	
06N	06W	05	U1-7 TAKE	00PC	423.00	86	268	1	W	

			TREES	ESTIMATED	PERCENT
			PER PLOT	TOTAL	SAMPLE
	PLOTS	TREES		TREES	TREES
TOTAL	86	268	3.1		
CRUISE	29	95	3.3	56,504	.2
DBH COUNT					
REFOREST					
COUNT	49	172	3.5		
BLANKS	8				
100 %					

STAND SUMMARY										
	SAMPLE	TREES	AVG	BOLE	REL	BASAL	GROSS	NET	GROSS	NET
	TREES	/ACRE	DBH	LEN	DEN	AREA	BF/AC	BF/AC	CF/AC	CF/AC
DOUG FIR	95	133.6	12.0	46	30.2	104.7	10,722	10,606	3,072	3,072
TOTAL	95	133.6	12.0	46	30.2	104.7	10,722	10,606	3,072	3,072

CONFIDENCE LIMITS OF THE SAMPLE										
68.1 TIMES OUT OF 100 THE VOLUME WILL BE WITHIN THE SAMPLE ERROR										

CL: 68.1 %	COEFF	SAMPLE TREES - BF					# OF TREES REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	58.3	6.0	87	93	99					
TOTAL	58.3	6.0	87	93	99		136	34	15	
CL: 68.1 %	COEFF	TREES/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	52.9	5.7	126	134	141					
TOTAL	52.9	5.7	126	134	141		112	28	12	
CL: 68.1 %	COEFF	BASAL AREA/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	53.8	5.8	99	105	111					
TOTAL	53.8	5.8	99	105	111		116	29	13	
CL: 68.1 %	COEFF	NET BF/ACRE					# OF PLOTS REQ.		INF. POP.	
SD: 1.0	VAR.%	S.E.%	LOW	AVG	HIGH		5	10	15	
DOUG FIR	56.1	6.0	9,965	10,606	11,248					
TOTAL	56.1	6.0	9,965	10,606	11,248		126	31	14	

TC		PSTNDSUM		Stand Table Summary										Page 1	
														Date: 3/23/2026	
T06N R06W S05 Ty00PC 423.00				Project 7COWTHIN						Time: 12:48:55PM					
				Acres 423.00						Grown Year:					
S Spec T	Sample		Tot		Trees/ Acre	BA/ Acre	Logs Acre	Average Log		Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals		
	DBH	Trees	FF 16'	Av Ht				Net Cu.Ft.	Net Bd.Ft.				Tons	Cunits	MBF
DL	10	1	89	72	2.027	1.11	2.03	15.0	60.0		30	122		129	51
DL	11	1	86	96	1.675	1.11	3.35	10.0	40.0		34	134		142	57
DL	12	5	85	76	7.039	5.53	9.85	15.3	51.4		151	507		637	214
DL	13	7	86	89	8.396	7.74	15.59	16.5	56.9		257	888		1,086	375
DL	14	10	85	78	10.343	11.06	19.65	17.0	56.8		334	1,117		1,413	472
DL	15	23	86	93	20.785	25.43	42.47	21.3	75.9		906	3,225		3,833	1,364
DL	16	16	86	94	12.670	17.69	26.92	23.6	85.6		635	2,304		2,686	975
DL	17	17	86	98	11.924	18.80	22.45	30.2	108.1		678	2,427		2,866	1,027
DL	18	13	84	89	8.134	14.37	16.27	28.9	93.5		470	1,520		1,988	643
DL	19	7	86	90	3.931	7.74	7.86	35.3	117.1		277	921		1,173	390
DL	20	6	85	105	3.041	6.63	7.10	37.3	129.3		265	917		1,119	388
DL	21	3	85	95	1.379	3.32	2.76	44.8	146.7		124	405		523	171
DL	22	3	84	81	1.256	3.32	2.51	42.7	118.3		107	297		454	126
DL	23	1	85	95	.383	1.11	.77	52.0	175.0		40	134		169	57
DL	24	1	85	89	.352	1.11	.70	41.0	140.0		29	99		122	42
DL	25	1	83	80	.324	1.11	.65	55.5	170.0		36	110		152	47
DL	26	1	83	104	.300	1.11	.60	72.0	230.0		43	138		183	58
DL	30	1	85	128	.225	1.11	.68	79.0	333.3		53	225		226	95
DL	Totals	117	86	90	94.185	129.36	182.21	24.5	85.0		4,468	15,490		18,900	6,552
AL	8	3	87	17	11.844	4.13	11.84	4.0	10.0		47	118		200	50
AL	9	3	86	36	9.358	4.13	9.36	6.3	20.0		59	187		251	79
AL	10	2	86	81	5.054	2.76	5.05	16.5	60.0		83	303		353	128
AL	11	1	86	72	2.088	1.38	2.09	19.0	60.0		40	125		168	53
AL	12	3	87	76	5.264	4.13	7.02	19.0	57.5		133	404		564	171
AL	13	4	87	67	5.981	5.51	10.47	15.6	48.6		163	508		689	215
AL	14	2	87	60	2.578	2.76	3.87	20.0	56.7		77	219		327	93
AL	19	1	87	70	.700	1.38	1.40	32.0	100.0		45	140		189	59
AL	Totals	19	87	49	42.867	26.18	51.10	12.7	39.2		648	2,005		2,742	848
HL	21	1	86	121	.162	.39	.49	42.0	180.0		20	88		87	37
HL	Totals	1	86	121	.162	.39	.49	42.0	180.0		20	88		87	37
ML	8	1	86	29	1.679	.59	1.68	5.0	20.0		8	34		36	14
ML	17	1	86	35	.372	.59	.37	25.0	40.0		9	15		39	6
ML	Totals	2	86	30	2.051	1.17	2.05	8.6	23.6		18	48		75	21
SN	10	1	88	28	1.433	.78									
SN	11	1	89	30	1.184	.78									
SN	Totals	2	88	29	2.617	1.56									
Totals		141	86	76	141.883	158.67	235.84	21.9	74.8		5,154	17,632		21,803	7,458

TC PLOGSTVB			Log Stock Table - MBF																
T06N R06W S05 Ty00PC 423.00 T06N R06W S05 Ty00PC 8.00				Project: 7COWTHIN Acres 431.00												Page 1 Date 3/23/2026 Time 12:48:24PM			
S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
D	DO	2S	12	0		0	.0					0							
D	DO	2S	20	1		1	.0					1							
D	DO	2S	24	1	7.4	1	.0					1							
D	DO	2S	32	3	4.2	2	.1					2							
D	DO	2S	36	2	4.1	2	.0					2							
D	DO	2S	40	76		76	1.6					13	60	1	1				
D	DO	3S	20	0		0	.0			0									
D	DO	3S	24	117		117	2.5			99	18								
D	DO	3S	26	31		31	.7			31									
D	DO	3S	28	0		0	.0			0									
D	DO	3S	30	37		37	.8			36	1								
D	DO	3S	32	503	2.2	491	10.5			261	225	6							
D	DO	3S	34	183		183	3.9			183									
D	DO	3S	36	277	2.2	271	5.8			96	175								
D	DO	3S	38	88		88	1.9			45	43	1							
D	DO	3S	40	2,414		2,391	50.9			921	1136	334							
D	DO	4S	12	16		16	.3			16		0							
D	DO	4S	14	84		84	1.8			84									
D	DO	4S	16	151		151	3.2			151	0								
D	DO	4S	18	82		82	1.8			82	0								
D	DO	4S	20	88		88	1.9			64	24								
D	DO	4S	24	229		229	4.9			172	58								
D	DO	4S	26	179		179	3.8			179									
D	DO	4S	28	44		44	.9			44									
D	DO	4S	30	115		115	2.5			115									
D	DO	4S	32	26	40.0	15	.3			15									
D	Totals			4,747	1.1	4,695	99.6			2427	1827	359	19	60	1	1			
A	DO	2S	16	1		1	4.5					1							
A	DO	2S	26	1		1	5.8					1							
A	DO	2S	40	1		1	6.3					1							
A	DO	3S	26	1		1	8.9				1								
A	DO	3S	38	1		1	7.0				1								
A	DO	3S	40	1		1	3.9			1									
A	DO	4S	12	1		1	5.9			1									
A	DO	4S	16	0		0	.7			0									
A	DO	4S	18	1		1	6.2			1									

Log Stock Table - MBF

Page 2
 Date 3/23/2026
 Time 12:48:24PM

T06N R06W S05 Ty00PC 423.00
 T06N R06W S05 Ty00PC 8.00

Project: 7COWTHIN
 Acres 431.00

S T Spp	So rt	Gr de	Log Len	Gross MBF	Def %	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches											
								2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
A	DO	4S	20	1		1	8.1			1									
A	DO	4S	26	0		0	2.6			0									
A	DO	4S	32	1		1	3.7			1									
A	DO	4S	36	2		2	12.8			2									
A	DO	4S	40	4		4	23.5			4									
A	Totals			16		16	.3			11	3	3							
H	DO	2S	40	0		0	66.7						0						
H	DO	3S	40	0		0	27.8					0							
H	DO	4S	16	0		0	5.6			0									
H	Totals			1		1	.0			0		0	0						
M	DO	4S	18	0		0	69.3			0									
M	DO	4S	28	0	20.0	0	30.7			0									
M	Totals			0	7.1	0	.0			0									
Total	All Species			4,764	1.1	4,712	100.0			2438	1830	362	19	61	1	1			

TC		PSTNDSUM		Stand Table Summary (TAKE)										Page 1		
														Date: 3/23/2026		
T06N R06W S05 Ty00PC 423.00 T06N R06W S05 Ty00PC 8.00				Project 7COWTHIN						Time: 12:54:15PM						
				Acres 431.00						Grown Year:						
S Spc	T	Sample		Tot					Average Log		Net		Totals			
		DBH	Trees	FF 16'	Av Ht	Trees/Acre	BA/Acre	Logs Acre	Net Cu.Ft.	Net Bd.Ft.	Tons/Acre	Cu.Ft. Acre	Bd.Ft. Acre	Tons	Cunits	MBF
D		8	2	91	62	3.159	1.10	3.16	9.0	40.0		28	126		123	54
D		9	14	85	61	17.469	7.72	17.47	10.7	45.7		187	799		807	344
D		10	17	86	67	16.209	8.84	16.21	12.1	46.3		197	750		848	323
D		11	29	86	78	23.420	15.46	31.80	13.0	44.2		413	1,406		1,781	606
D		12	43	85	78	26.803	21.05	39.49	15.1	50.7		598	2,003		2,577	863
D		13	41	86	79	20.490	18.89	34.98	15.6	49.7		545	1,739		2,351	749
D		14	40	86	91	15.662	16.74	31.31	18.4	64.2		578	2,011		2,489	867
D		15	35	86	90	5.776	7.09	11.57	20.9	72.7		242	841		1,044	363
D		16	26	85	87	4.183	5.84	8.40	24.2	79.4		203	667		874	287
D		17	17	86	98	.221	.35	.42	30.2	108.1		13	45		54	19
D		18	13	84	89	.151	.27	.30	28.9	93.5		9	28		38	12
D		19	11	83	87	1.193	2.35	2.39	34.3	105.7		82	252		353	109
D		20	6	85	105	.056	.12	.13	37.3	129.3		5	17		21	7
D		21	5	85	108	.484	1.16	1.43	34.4	133.8		49	191		211	82
D		22	3	84	81	.023	.06	.05	42.7	118.3		2	6		9	2
D		23	1	86	95	.007	.02	.01	52.0	175.0		1	2		3	1
D		24	1	86	89	.007	.02	.01	41.0	140.0		1	2		2	1
D		25	1	83	80	.006	.02	.01	55.5	170.0		1	2		3	1
D		26	1	83	104	.006	.02	.01	72.0	230.0		1	3		3	1
D		30	1	85	128	.004	.02	.01	79.0	333.3		1	4		4	2
D		Totals	307	86	77	135.328	107.14	199.15	15.8	54.7		3,154	10,894		13,596	4,695
A		8	3	87	17	.220	.08	.22	4.0	10.0		1	2		4	1
A		9	3	86	36	.174	.08	.17	6.3	20.0		1	3		5	1
A		10	2	86	81	.094	.05	.09	16.5	60.0		2	6		7	2
A		11	1	86	72	.039	.03	.04	19.0	60.0		1	2		3	1
A		12	3	87	76	.098	.08	.13	19.0	57.5		2	7		11	3
A		13	4	87	67	.111	.10	.19	15.6	48.6		3	9		13	4
A		14	2	87	60	.048	.05	.07	20.0	56.7		1	4		6	2
A		19	1	87	70	.013	.03	.03	32.0	100.0		1	3		4	1
A		Totals	19	87	49	.796	.49	.95	12.7	39.2		12	37		52	16
H		21	1	86	121	.003	.01	.01	42.0	180.0		0	2		2	1
H		Totals	1	86	121	.003	.01	.01	42.0	180.0		0	2		2	1
M		8	1	86	29	.031	.01	.03	5.0	20.0		0	1		1	0
M		17	1	86	35	.007	.01	.01	25.0	40.0		0	0		1	0
M		Totals	2	86	30	.038	.02	.04	8.6	23.6		0	1		1	0
Totals		329	86	77		136.165	107.65	200.14	15.8	54.6		3,167	10,933		13,651	4,712

LOGGING PLAN MAP

OF TIMBER SALE CONTRACT

NO. AT-341-2026-W01255-01

SEVEN COW THIN

PORTIONS OF SECTIONS 4, 5, & 8

OF T6N, R6W, W.M., AND

PORTIONS OF SECTIONS 32, 33, & 34

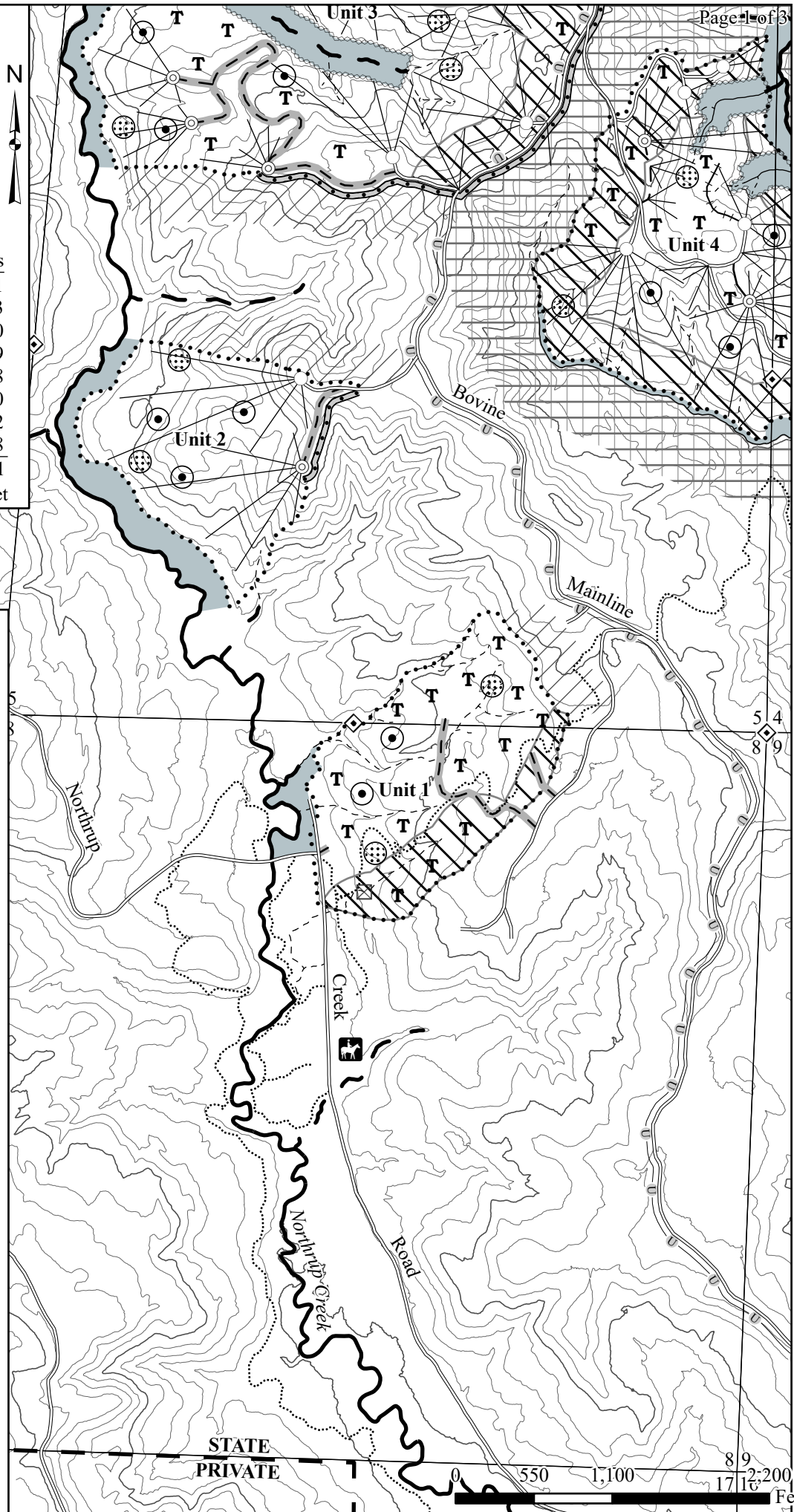
OF T7N, R6W, W.M.,

CLATSOP COUNTY, OREGON

Logging Breakdown	Cable Yarding	Tractor Yarding	Acres
Unit 1 (PC)	0%	100%	51
Unit 2 (PC)	100%	0%	33
Unit 3 (PC)	68%	32%	130
Unit 4 (PC)	82%	18%	79
Unit 5 (PC)	71%	29%	58
Unit 6 (PC)	95%	5%	20
Unit 7 (PC)	77%	23%	52
Unit 8 (R/W)	0%	100%	8
Total	66%	34%	431
1 inch = 1,000 feet		Contours = 40 feet	

Legend

- Ownership Boundary
- Timber Sale Boundary
- Timber Sale Boundary - Unposted
- Paved Road
- Surfaced Road
- New Road Construction - Surfaced
- New Road Construction - Unsurfaced
- Landing to be Constructed
- Existing Landing
- Type F Stream - Perennial
- Type F Stream - Seasonal
- Type N Stream - Perennial
- Type N Stream - Seasonal
- Non-Posted Stream Buffer
- Posted Stream Buffer
- Cable-Based Yarding
- Ground-Based Yarding
- Equipment Access
- Temporary Stream Crossing
- Seasonally Restricted Area
- Operationally Restricted Area
- Reforestation Area
- Group Selection A
- Group Selection B
- Underground Utilities
- Northrup Creek Horse Camp
- Recreation Trail
- Survey Monument



LOGGING PLAN MAP

OF TIMBER SALE CONTRACT

NO. AT-341-2026-W01255-01

SEVEN COW THIN

PORTIONS OF SECTIONS 4, 5, & 8

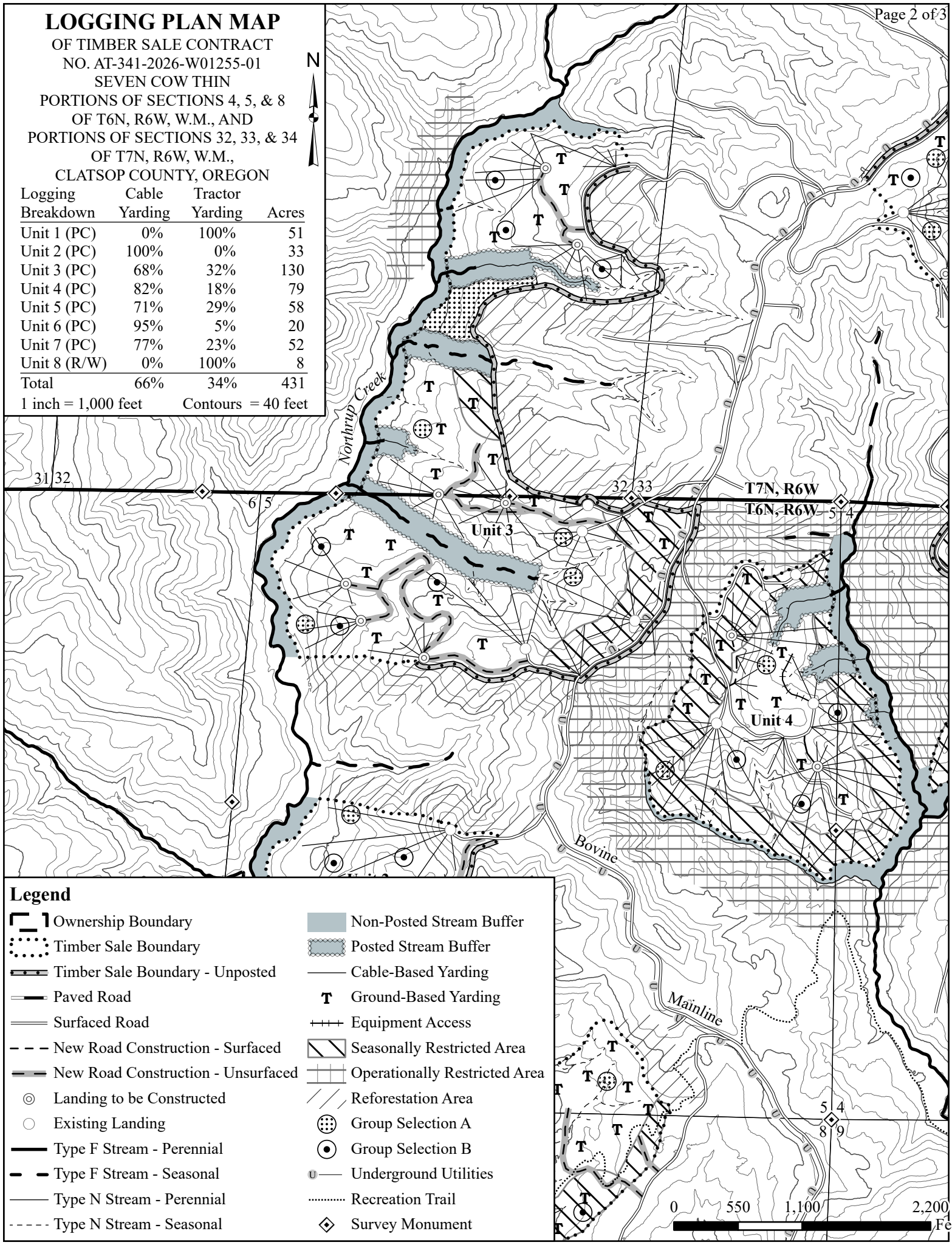
OF T6N, R6W, W.M., AND

PORTIONS OF SECTIONS 32, 33, & 34

OF T7N, R6W, W.M.,

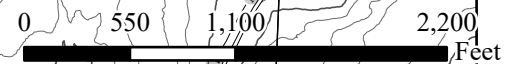
CLATSOP COUNTY, OREGON

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LOGGING PLAN MAP

OF TIMBER SALE CONTRACT

NO. AT-341-2026-W01255-01

SEVEN COW THIN

PORTIONS OF SECTIONS 4, 5, & 8

OF T6N, R6W, W.M., AND

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OF T7N, R6W, W.M.,

CLATSOP COUNTY, OREGON

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- Type N Stream - Perennial
- Type N Stream - Seasonal
- Non-Posted Stream Buffer
- Posted Stream Buffer
- Cable-Based Yarding
- Ground-Based Yarding
- Reserve Tree Area
- Seasonally Restricted Area
- Operationally Restricted Area
- Reforestation Area
- Group Selection A
- Group Selection B
- Underground Utilities
- Survey Monument

