Timber Sale Appraisal
Standard Grade South

Sale TL-341-2026-W01148-01

District: Tillamook

Date: June 16, 2025

Cost Summary

	Conifer	Hardwood	Total
Gross Timber Sale Value	$3,181,977.90	$13,558.00	$3,195,535.90
		Project Work:	($471,600.00)
		Advertised Value:	$2,723,935.90

Timber Sale Appraisal
Standard Grade South

Sale TL-341-2026-W01148-01

District: Tillamook **Date: June 16, 2025**

Timber Description

Location: Section(s) 12 of T2N R8W, Section(s) 7, 8, 17, 18 of T2N R7W W.M.

Stand Stocking: 60%

Specie Name	AvgDBH	Amortization (%)	Recovery (%)
Douglas - Fir	17	0	100
Western Hemlock / Fir	19	0	100
Alder (Red)	14	0	100

Volume by Grade	2S	3S & 4S 6"-11"	Camprun	Total
Douglas - Fir	3,755	3,862	0	7,617
Western Hemlock / Fir	390	175	0	565
Alder (Red)	0	0	200	200
Total	4,145	4,037	200	8,382

Comments: Additional Costs – STANDARD GRADE SOUTH
Pond Values Used: April 2025
Region: Astoria, Forest Grove, and Tillamook
Western red cedar and other cedars stumpage price = $1,285/MBF - $417.93/MBF = $867.07/MBF
Spruce and other conifer stumpage price = $530/MBF - $417.93/MBF = $112.07/MBF
Conifer Utility SC and PC = $406.30/MBF x .5 = $203.15/MBF
Pulp (Conifer and Hardwood) Price = $2.50/Ton
FUEL COST ALLOWANCE = $5.00/Gallon
HAULING COST ALLOWANCE ($120.00/hr x 10 hr.= $ 1,200.00) = $1,200/DAY
BRAND AND PAINT ALLOWANCE = $2.00/ MBF

Other costs with profit and risk added:
Move-in Machine Cleaning: $1,000/machine x 2 machines x 2 season = $4,000
Tailhold OR guybacks dozer move-in: $1,000/machine x 2 machines = $2,000
TOTAL Other Costs with profit and risk to be added = $0

Other Costs without Profit and Risk Added
TOTAL Other Costs without Profit and Risk added = $9,550

ODF Road Maintenance
Spot Rocking: 20cy/MMBF/mile x 8.382MMBF x $9.5/cy x 11.59 miles /8,382 MBF = $2.20/MBF
Interim Grading: $1,150/mile x 12.6 miles x 2 times/ 8,382 MBF = $3.46/MBF
Final Maintenance Grading: $1,500/mile x 19.7 miles/ 8,382 MBF = $3.53/MBF
Final Maintenance Compaction: $900/mile x 12.6 miles/8,382 MBF = $1.35/MBF
Total Road Maintenance: = $10.54/MBF
Slash piling: $10/ac x 321 ac. = $3,210

Notes:
Non-Project Road #1: =$515
Non-Project Road #2: =$1,130
Non-Project Road #3: =$370
Non-Project Road #4: =$1,725
Non-Project and Unsurfaced Road Blocking: 4 Closures @ $50/Closure = $200
TOTAL Notes = $3,940

District: Tillamook **Date: June 16, 2025**

Logging Conditions

Combination#: 1

Douglas - Fir	40.14%
Western Hemlock / Fir	32.02%
Alder (Red)	34.32%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing
yarding distance: Medium (800 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 9 **bd. ft / load:** 3800
cost / mbf: $250.85
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)

Combination#: 2

Douglas - Fir	53.82%
Western Hemlock / Fir	48.84%
Alder (Red)	52.42%

Logging System: Cable: Large Tower >=70 **Process:** Harvester Head Delimbing
yarding distance: Long (1,500 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 8 **bd. ft / load:** 3800
cost / mbf: $282.20
machines: Log Loader (A)
Forwarder
Harvester
Tower Yarder (Large)

Combination#: 3

Douglas - Fir	6.05%
Western Hemlock / Fir	19.14%
Alder (Red)	13.26%

Logging System: Shovel **Process:** Harvester Head Delimbing
yarding distance: Short (400 ft) **downhill yarding:** No
tree size: Mature Private Forest / Regen Cut (250 Bft/tree), 6-11 logs/MBF
loads / day: 20 **bd. ft / load:** 3800
cost / mbf: $131.58
machines: Forwarder
Harvester

Timber Sale Appraisal
Standard Grade South

Sale TL-341-2026-W01148-01

District: Tillamook **Date: June 16, 2025**

Logging Costs

Operating Seasons:	2.00	**Profit Risk:**	10%
Project Costs:	$471,600.00	**Other Costs (P/R):**	$3,940.00
Slash Disposal:	$3,210.00	**Other Costs:**	$9,550.00

Miles of Road

Road Maintenance: $10.54

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

Hauling Costs

Species	$ / MBF	Trips/Day	MBF / Load
Douglas - Fir	$0.00	3.0	4.0
Western Hemlock / Fir	$0.00	3.0	4.0
Alder (Red)	$0.00	3.0	3.4

Timber Sale Appraisal
Standard Grade South

Sale TL-341-2026-W01148-01

District: Tillamook **Date: June 16, 2025**

Logging Costs Breakdown

Logging	Road Maint	Fire Protect	Hauling	Other P/R appl	Profit & Risk	Slash Disposal	Brand & Paint	Other	Total
Douglas - Fir									
$260.51	$10.54	$1.05	$104.17	$0.47	$37.67	$0.38	$2.00	$1.14	$417.93
Western Hemlock / Fir									
$243.33	$10.54	$1.05	$104.17	$0.47	$35.96	$0.38	$2.00	$1.14	$399.04
Alder (Red)									
$251.47	$10.54	$1.05	$122.55	$0.47	$38.61	$0.38	$2.00	$1.14	$428.21

Specie	Amortization	Pond Value	Stumpage	Amortized
Douglas - Fir	$0.00	$824.23	$406.30	$0.00
Western Hemlock / Fir	$0.00	$553.36	$154.32	$0.00
Alder (Red)	$0.00	$496.00	$67.79	$0.00

Timber Sale Appraisal
Standard Grade South
Sale TL-341-2026-W01148-01

District: Tillamook **Date: June 16, 2025**

Summary

Amortized

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

Unamortized

Specie	MBF	Value	Total
Douglas - Fir	7,617	$406.30	$3,094,787.10
Western Hemlock / Fir	565	$154.32	$87,190.80
Alder (Red)	200	$67.79	$13,558.00

Gross Timber Sale Value

Recovery: $3,195,535.90

Prepared By: Nathan Atchison **Phone:** 971-977-9825

PROJECT SUMMARY SHEET

Sale: Standard Grade South

CONSTRUCTION

Point	M to N	5+90	stations =	$11,910.72
Point	S to T	2+60	stations =	$9,934.93
			SUBTOTAL CONSTRUCTION	**$21,845.65**

IMPROVEMENT

Point	A to B	494+35	stations =	$228,595.15
Point	C to D	60+35	stations =	$6,334.29
Point	I to J	92+50	stations =	$33,777.51
Point	K to L	5+80	stations =	$1,820.84
Point	O to P	6+67	stations =	$11,027.95
			SUBTOTAL IMPROVEMENT	**$281,555.74**

RECONSTRUCTION

Point	E to F	2+00	stations =	$36,511.40
Point	G to H	2+60	stations =	$8,979.42
Point	O to P	2+95	stations =	$4,509.98
Point	Q to R	46+25	stations =	$90,768.01
			SUBTOTAL RECONSTRUCTION	**$140,768.81**

SPECIAL PROJECTS

Brush	10.3	miles of road	$9,167.00
Incidental Storm Damage Repairs			$14,315.00
		SUBTOTAL SPECIAL PROJECTS	**$23,482.00**

MOVE IN **$3,947.80**

GRAND TOTAL **$471,600.00**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **A to B**

Construction -	0+00	stations	Improvement -	494+35	stations	Reconstruction -	0+00	stations
	0.00	miles		9.36	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Widening	0.162	acres @	$955.00	per acre =	$154.71	
				TOTAL CLEARING AND GRUBBING		**$154.71**

IMPROVEMENT: EXCAVATION -

Pullback	9	cy. @	$2.20	per c.y.=	$19.80	
Widening	2716	cy. @	$2.20	per c.y.=	$5,975.20	
Remove outside berm & waste & ravel & culvert fill	1500	cy. @	$2.20	per c.y.=	$3,300.00	
				TOTAL EXCAVATION		**$9,295.00**

IMPROVEMENT: ENDHAUL -

Pullback	286+15	to	286+30	9	cy. @	$4.29	per c.y.=	$38.61	
Widening	415+20	to	417+55	2716	cy. @	$1.77	per c.y.=	$4,807.32	
Remove outside berm & waste & ravel & culvert fill				1500	cy. @	$5.02	per c.y.=	$7,530.00	
Spread & compact				4225	cy. @	$0.55	per c.y.=	$2,323.75	
							TOTAL ENDHAUL		**$14,699.68**

CULVERTS - MATERIALS & INSTALLATION(Culverts 36" and above are just the culvert purchase cost)

Culverts

430	LF of 18"	$10,857.50	240	LF of 24"	$9,180.00
90	LF of 30"	$4,500.00	50	LF of 36"	$3,009.14
			70	LF of 48"	$6,986.42
			80	LF of 60"	$13,465.82
		$15,357.50			$32,641.38

Culvert Stakes & Markers

37	markers	$333.00

TOTAL CULVERTS **$48,331.88**

ROCK

0+00 to	128+40	5,060	cy. of	Crushed	@	$16.47	per c.y.=	$83,338.20
253+55 to	279+05	580	cy. of	Crushed	@	$20.75	per c.y.=	$12,035.00
Spot Rock/Leveling Rock	0+00-279+05	0	cy. of	Crushed	@	$0.00	per c.y.=	$0.00
Spot Rock/Leveling Rock	279+05-494+35	200	cy. of	Crushed	@	$7.60	per c.y.=	$1,520.00
Culvert backfill/bedding to :	20cuyd each	180	cy. of	Crushed	@	$16.12	per c.y.=	$2,901.60
Culvert backfill/bedding fro	20cuyds each	260	cy. of	Crushed	@	$5.65	per c.y.=	$1,469.00
Energy Dissipator to 279+0	5cuyd each	40	cy. of	Rip Rap	@	$9.21	per c.y.=	$368.40
Energy Dissipator from 279	5cuyd each	70	cy. of	Rip Rap	@	$16.11	per c.y.=	$1,127.70
Culvert bedding/backfill	1+65	60	cy. of	Crushed	@	$13.20	per c.y.=	$792.00
Energy Dissipator	1+65	40	cy. of	Pitrun	@	$10.89	per c.y.=	$435.60
Energy Dissipator	1+65	10	cy. of	Rip Rap	@	$10.64	per c.y.=	$106.40
Energy Dissipator	32+60	5	cy. of	Rip Rap	@	$9.98	per c.y.=	$49.90
Energy Dissipator	41+60	5	cy. of	Rip Rap	@	$9.79	per c.y.=	$48.95
Energy Dissipator	45+25	20	cy. of	Rip Rap	@	$9.72	per c.y.=	$194.40
Backfill, bedding, road surfa	69+45	60	cy. of	Crushed	@	$14.63	per c.y.=	$877.80
Fill	69+45	150	cy. of	Pitrun	@	$9.45	per c.y.=	$1,417.50
Energy Dissipator	69+45	10	cy. of	Rip Rap	@	$9.20	per c.y.=	$92.00
Energy Dissipator	107+90	5	cy. of	Rip Rap	@	$8.39	per c.y.=	$41.95
Backfill, bedding, road surfa	114+60	70	cy. of	Crushed	@	$15.59	per c.y.=	$1,091.30
Fill	114+60	200	cy. of	Pitrun	@	$8.50	per c.y.=	$1,700.00
Energy Dissipator	114+60	10	cy. of	Rip Rap	@	$8.25	per c.y.=	$82.50
Energy Dissipator Above Cu	123+60	10	cy. of	Rip Rap	@	$8.06	per c.y.=	$80.60
Turnout	125+95	40	cy. of	Crushed	@	$17.77	per c.y.=	$710.80
Energy Dissipator	148+30	5	cy. of	Rip Rap	@	$7.92	per c.y.=	$39.60
Backfill, bedding, road surfa	150+70	60	cy. of	Crushed	@	$16.35	per c.y.=	$981.00
Fill	150+70	60	cy. of	Pitrun	@	$8.22	per c.y.=	$493.20
Energy Dissipator	150+70	10	cy. of	Rip Rap	@	$7.97	per c.y.=	$79.70
Energy Dissipator	171+90	10	cy. of	Rip Rap	@	$8.42	per c.y.=	$84.20
Backfill, bedding, road surfa	176+70	50	cy. of	Crushed	@	$16.90	per c.y.=	$845.00
Energy Dissipator	229+10	10	cy. of	Rip Rap	@	$9.63	per c.y.=	$96.30
Energy Dissipator	262+30	10	cy. of	Rip Rap	@	$10.33	per c.y.=	$103.30
Fill	281+80	60	cy. of	Pitrun	@	$18.52	per c.y.=	$1,111.20
Backfill, bedding, road surfa	288+15	80	cy. of	Crushed	@	$7.38	per c.y.=	$590.40
Fill	288+15	300	cy. of	Pitrun	@	$18.38	per c.y.=	$5,514.00
Energy Dissipator	288+15	10	cy. of	Rip Rap	@	$17.68	per c.y.=	$176.80
Energy Dissipator	300+95	5	cy. of	Rip Rap	@	$17.41	per c.y.=	$87.05
Backfill	344+20	30	cy. of	Crushed	@	$5.98	per c.y.=	$179.40
Backfill, bedding, road surfa	344+40	60	cy. of	Crushed	@	$16.75	per c.y.=	$1,005.00
Energy Dissipator	344+40	10	cy. of	Rip Rap	@	$16.05	per c.y.=	$160.50
Turnaround	397+35	40	cy. of	Jawrun	@	$16.37	per c.y.=	$654.80
Crushed Rock Berm	398+75	10	cy. of	Crushed	@	$5.04	per c.y.=	$50.40
Crushed Rock Berm	405+30	10	cy. of	Crushed	@	$4.90	per c.y.=	$49.00
Crushed Rock Berm	409+35	5	cy. of	Crushed	@	$4.82	per c.y.=	$24.10
Energy Dissipator	413+30	5	cy. of	Rip Rap	@	$14.95	per c.y.=	$74.75
Widening	416+00	30	cy. of	Crushed	@	$6.63	per c.y.=	$198.90
Widening	416+00	90	cy. of	Jawrun	@	$17.18	per c.y.=	$1,546.20
							TOTAL ROCK	**$124,626.40**

SPECIAL PROJECTS

Rock Hammering(207+45 & 213+50)	3.00	hours @	$255.00	per hour	$765.00	
Construct waste areas -	3.00	hours @	$220.00	per hour	$660.00	
Construct ditchouts -	1.00	@	$60.00	each	$60.00	
Improve turnaround @ 397+35	1.00	hours @	$220.00	per station	$220.00	
Ditch - Endhaul	30.45	stations @	$175.00	per station	$5,328.75	
Grade and shape road -	494.35	stations @	$24.40	per station	$12,062.14	
Roll subgrade w/ vibratory roller-45+40-171+60	441.10	stations @	$19.40	per station	$8,557.34	
Remove culverts and half rounds from state lands	24.00	@	$1,978.00	total	$1,978.00	
Grass seed and fertilize -	2.50	acres @	$310.00	per acre	$775.00	
Mulching -	1.25	acres @	$865.00	per acre	$1,081.25	
					TOTAL SPECIAL PROJECTS	**$31,487.48**

GRAND TOTAL **$228,595.15**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **C to D**

Construction -	0+00	stations	Improvement -	60+35	stations	Reconstruction -	0+00	stations
	0.00	miles		1.14	miles		0.00	miles

ROCK

Spot Rock	As Directed	50	cy. of	Crushed	@	$9.23	per c.y.=	$461.50	
								TOTAL ROCK	**$461.50**

SPECIAL PROJECTS

Construct Landings	1.50	hours @	$220.00	per hour	$330.00	
Ditch - Endhaul	14.70	stations @	$150.00	per station	$2,205.00	
Ravel Removal -	3.00	hours @	$320.00	per hour	$960.00	
Grade and shape road -	60.35	stations @	$20.00	per station	$1,207.00	
Roll subgrade w/ vibratory roller prior to rocking -	60.35	stations @	$19.40	per station	$1,170.79	
					TOTAL SPECIAL PROJECTS	**$5,872.79**
				GRAND TOTAL		**$6,334.29**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **E to F**

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

RECONSTRUCTION: EXCAVATION -

Material Removal				4500	cy. @	$2.20	per c.y.=	$9,900.00
							TOTAL EXCAVATION	**$9,900.00**

RECONSTRUCTION: ENDHAUL -

Material Removal	0+00	to	2+00	3000	cy. @	$4.10	per c.y.=	$12,300.00
Spread & compact				4500	cy. @	$1.25	per c.y.=	$5,625.00
							TOTAL ENDHAUL	**$17,925.00**

ROCK

0+00 to	2+00	110	cy. of	Jawrun	@	$19.77	per c.y.=	$2,174.70
Approach Widening	0+00	100	cy. of	Jawrun	@	$19.75	per c.y.=	$1,975.00
Fill	0+60	20	cy. of	Jawrun	@	$19.76	per c.y.=	$395.20
Landing Rock	2+00	170	cy. of	Jawrun	@	$19.80	per c.y.=	$3,366.00
							TOTAL ROCK	**$7,910.90**

SPECIAL PROJECTS

Clear Fill Area 0+60 -	1.00	hours @	$220.00	per hour	$220.00
Construct waste areas -	2.00	hours @	$220.00	per hour	$440.00
Grade and shape road -	2.00	stations @	$24.40	per station	$48.80
Roll subgrade	2.00	stations @	$19.40	per station	$38.80
Grass seed and fertilize -	0.09	acres @	$310.00	per acre	$27.90
				TOTAL SPECIAL PROJECTS	**$775.50**

GRAND TOTAL **$36,511.40**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **G to H**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	2+60	stations
	0.00	miles		0.00	miles		0.05	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

R/W Scattering	0.119	acres	@	$1,415.00	per acre =	$168.39	
					TOTAL CLEARING AND GRUBBING		**$168.39**

RECONSTRUCTION: EXCAVATION -

R/W Plucking	2.00	hours	@	$220.00	per hour	$440.00	
					TOTAL EXCAVATION		**$440.00**

ROCK

0+00 to	2+60	140	cy. of	Jawrun	@	$18.18	per c.y.=	$2,545.20	
Intersection Widening	0+00	70	cy. of	Jawrun	@	$18.15	per c.y.=	$1,270.50	
Landing Rock	2+60	140	cy. of	Jawrun	@	$18.20	per c.y.=	$2,548.00	
								TOTAL ROCK	**$6,363.70**

SPECIAL PROJECTS

Construct Landings	2.00	hours	@	$220.00	per hour	$440.00
Construct waste areas -	2.00	hours	@	$220.00	per hour	$440.00
Endhaul stumps from landing -	0.25	hours	@	$385.00	per hour	$96.25
Grade and shape road -	2.60	stations	@	$24.40	per station	$63.44
Roll subgrade	2.60	stations	@	$19.40	per station	$50.44
Rework approach to go uphill -	3.00	hours	@	$220.00	per hour	$660.00
Remove large stumps -	2.00	lump sum	@	$110.00		$220.00
Grass seed and fertilize -	0.12	acres	@	$310.00	per acre	$37.20
					TOTAL SPECIAL PROJECTS	**$2,007.33**

GRAND TOTAL **$8,979.42**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **I to J**

Construction -	0+00	stations	Improvement -	92+50	stations	Reconstruction -	0+00	stations
	0.00	miles		1.75	miles		0.00	miles

IMPROVEMENT: CLEARING AND GRUBBING -

Pullback	0.040	acres @	$955.00	per acre =	$38.20		
Widening	0.009	acres @	$955.00	per acre =	$8.60		
				TOTAL CLEARING AND GRUBBING			**$46.80**

IMPROVEMENT: EXCAVATION -

Pullback	216	cy. @	$2.20	per c.y.=	$475.20		
Widening	29	cy. @	$2.20	per c.y.=	$63.80		
				TOTAL EXCAVATION			**$539.00**

IMPROVEMENT: ENDHAUL -

Pullback	23+05	to	23+45	35	cy. @	$1.27	per c.y.=	$44.45	
Pullback	46+45	to	46+85	35	cy. @	$1.27	per c.y.=	$44.45	
Pullback	70+55	to	71+05	146	cy. @	$1.27	per c.y.=	$185.42	
Widening	55+75	to	56+70	29	cy. @	$1.27	per c.y.=	$36.83	
Spread & compact				245	cy. @	$0.55	per c.y.=	$134.75	
							TOTAL ENDHAUL		**$445.90**

CULVERTS - MATERIALS & INSTALLATION(Culverts 36" and above are just the culvert purchase cost)

.	Culverts								
		30	LF of 18"	$757.50		30	LF of 24"	$1,147.50	
						50	LF of 36"	$3,361.06	
				$757.50				$4,508.56	
	Culvert Stakes & Markers								
		3	markers	$27.00					
							TOTAL CULVERTS		**$5,293.06**

ROCK

0+00 to	56+25	1,270	cy. of	Crushed	@	$7.92	per c.y.=	$10,058.40	
56+25 to	92+50	620	cy. of	Crushed	@	$10.09	per c.y.=	$6,255.80	
Approach Widening	0+00	30	cy. of	Crushed	@	$7.32	per c.y.=	$219.60	
Approach Widening	92+50	50	cy. of	Crushed	@	$9.28	per c.y.=	$464.00	
Culvert bedding/backfill	2+15	20	cy. of	Crushed	@	$5.42	per c.y.=	$108.40	
Energy Dissipator	2+15	5	cy. of	Rip Rap	@	$15.72	per c.y.=	$78.60	
Energy Dissipator	2+60	5	cy. of	Rip Rap	@	$15.71	per c.y.=	$78.55	
Culvert bedding/backfill	14+25	40	cy. of	Crushed	@	$5.68	per c.y.=	$227.20	
Energy Dissipator	14+25	10	cy. of	Rip Rap	@	$15.89	per c.y.=	$158.90	
Energy Dissipator	43+20	30	cy. of	Rip Rap	@	$16.50	per c.y.=	$495.00	
Culvert bedding/backfill	46+45	20	cy. of	Crushed	@	$6.36	per c.y.=	$127.20	
Energy Dissipator	46+45	5	cy. of	Rip Rap	@	$16.57	per c.y.=	$82.85	
Energy Dissipator	54+90	5	cy. of	Rip Rap	@	$16.75	per c.y.=	$83.75	
Energy Dissipator	59+25	10	cy. of	Rip Rap	@	$16.84	per c.y.=	$168.40	
Leveling Rock	As Needed	100	cy. of	Crushed	@	$7.92	per c.y.=	$792.00	
Crushed Rock Berm	78+25	5	cy. of	Crushed	@	$7.03	per c.y.=	$35.15	
							TOTAL ROCK		**$19,433.80**

SPECIAL PROJECTS

Ditch - Endhaul	15.00	stations @	$150.00	per station	$2,250.00	
Ravel removal -	3.00	hours @	$315.00	per hour	$945.00	
Grade and shape road -	92.50	stations @	$24.40	per station	$2,257.00	
Roll subgrade	92.50	stations @	$19.40	per station	$1,794.50	
Remove culverts from state lands	3.00	@	$432.20	total	$432.20	
Grass seed and fertilize -	0.40	acres @	$310.00	per acre	$124.00	
Mulching -	0.250	acres @	$865.00	per acre	$216.25	
				TOTAL SPECIAL PROJECTS		**$8,018.95**

GRAND TOTAL **$33,777.51**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **K to L**

Construction -	0+00	stations	Improvement -	5+80	stations	Reconstruction -	0+00	stations
	0.00	miles		0.11	miles		0.00	miles

CULVERTS - MATERIALS & INSTALLATION

Culverts				
	30	LF of 18"	$757.50	
			$757.50	
Culvert Stakes & Markers				
	1	markers	$9.00	
				TOTAL CULVERTS **$766.50**

ROCK

Spot Rock	As Directed	30	cy. of	Crushed	@	$7.26	per c.y.=	$217.80
Crushed Rock Berm	2+45	5	cy. of	Crushed	@	$5.30	per c.y.=	$26.50
Culvert Bedding//Surfacing	2+45	15	cy. of	Crushed	@	$5.30	per c.y.=	$79.50
Energy Dissipator	2+45	5	cy. of	Rip Rap	@	$15.60	per c.y.=	$78.00
							TOTAL ROCK	**$401.80**

SPECIAL PROJECTS

Ditch - Endhaul	2.45	stations @	$150.00	per station	$367.50
Grade and shape road -	5.80	stations @	$24.40	per station	$141.52
Roll subgrade w/ vibratory roller prior to rocking -	5.80	stations @	$19.40	per station	$112.52
Grass seed and fertilize -	0.10	acres @	$310.00	per acre	$31.00
				TOTAL SPECIAL PROJECTS	**$652.54**

GRAND TOTAL **$1,820.84**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **M to N**

Construction -	5+90	stations	Improvement -		stations	Reconstruction -	0+00	stations
	0.11	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
0+00		5+90	20%		Outslope	$193	=			$1,138.70
									TOTAL	**$1,138.70**

CULVERTS - MATERIALS & INSTALLATION

Culverts

30	LF of 24"	$1,147.50					
		$1,147.50					

Culvert Stakes & Markers

1	markers	$9.00		
			TOTAL CULVERTS	**$1,156.50**

ROCK

0+00 to	5+90	340	cy. of	Jawrun	@	$17.23	per c.y.=	$5,858.20	
Intersection Widening	0+00	30	cy. of	Jawrun	@	$17.17	per c.y.=	$515.10	
Energy Dissipator	4+80	5	cy. of	Rip Rap	@	$15.07	per c.y.=	$75.35	
Landing Rock	5+90	140	cy. of	Jawrun	@	$17.30	per c.y.=	$2,422.00	
								TOTAL ROCK	**$8,870.65**

SPECIAL PROJECTS

Construct Landings	1.00	hours @	$220.00	per hour	$220.00
Endhaul stumps from landing -	0.25	hours @	$385.00	per hour	$96.25
Grade and shape road -	5.90	stations @	$24.40	per station	$143.96
Roll subgrade w/ vibratory roller prior to rocking -	5.90	stations @	$19.40	per station	$114.46
Grass seed and fertilize -	0.27	acres @	$310.00	per acre	$83.70
Mulching -	0.10	acres @	$865.00	per acre	$86.50
				TOTAL SPECIAL PROJECTS	**$744.87**

GRAND TOTAL **$11,910.72**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **O to P**

Construction -	0+00	stations	Improvement -	6+65	stations	Reconstruction -	2+95	stations
	0.00	miles		0.13	miles		0.06	miles

IMPROVEMENT: CLEARING AND GRUBBING -

R/W Brush End-Haul - excavator/offroad DT(2+95 to 9+60)	5.00	hours @	$310.00	per hour =	$1,550.00	
R/W Brush End-Haul - excavator/offroad DT(Other approach)	1.00	hours @	$310.00	per hour =	$310.00	
				TOTAL CLEARING AND GRUBBING		**$1,860.00**

RECONSTRUCTION: CLEARING AND GRUBBING -

R/W Brush End-Haul - excavator/offroad DT(0+00 to 2+95)	1.00	hours @	$310.00	per hour =	$310.00	
Burning	1.00	hours @	$133.00	per hour =	$133.00	
				TOTAL CLEARING AND GRUBBING		**$443.00**

ROCK

0+00 to	5+15	280	cy. of	Jawrun	@	$17.09	per c.y.=	$4,785.20
Landing Rock	5+15	330	cy. of	Jawrun	@	$17.10	per c.y.=	$5,643.00
Landing Rock	9+60	100	cy. of	Jawrun	@	$17.19	per c.y.=	$1,719.00
							TOTAL ROCK	**$12,147.20**

SPECIAL PROJECTS

Construct Landings	2.00	hours @	$220.00	per hour	$440.00
Endhaul stumps from landing -	0.25	hours @	$385.00	per hour	$96.25
Grade and shape road -	9.60	stations @	$24.40	per station	$234.24
Grade and shape road other approach -	2.00	stations @	$24.40	per station	$48.80
Roll subgrade w/ vibratory roller prior to rocking -	9.60	stations @	$19.40	per station	$186.24
Roll subgrade w/ vibratory roller prior to rocking -	2.00	stations @	$19.40	per station	$38.80
Grass seed and fertilize -	0.14	acres @	$310.00	per acre	$43.40
				TOTAL SPECIAL PROJECTS	**$1,087.73**

GRAND TOTAL **$15,537.93**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **Q to R**

Construction -	0+00	stations	Improvement -	0+00	stations	Reconstruction -	46+25	stations
	0.00	miles		0.00	miles		0.88	miles

RECONSTRUCTION: CLEARING AND GRUBBING -

Pullback	0.014	acres @	$955.00	per acre =	$13.37	
Widening	0.033	acres @	$955.00	per acre =	$31.52	
R/W Brush End-Haul - excavator/offroad DT	16.00	hours @	$385.00	per hour =	$6,160.00	
				TOTAL CLEARING AND GRUBBING		**$6,204.89**

RECONSTRUCTION: EXCAVATION -

Pullback	87	cy. @	$2.20	per c.y.=	$191.40	
Widening	120	cy. @	$2.20	per c.y.=	$264.00	
Ravel removal	130	cy. @	$2.20	per c.y.=	$286.00	
				TOTAL EXCAVATION		**$741.40**

RECONSTRUCTION: ENDHAUL -

Pullback	6+25	to	6+75	87	cy. @	$1.97	per c.y.=	$171.39
Widening	11+80	to	12+85	39	cy. @	$1.76	per c.y.=	$68.64
Widening	15+70	to	16+60	52	cy. @	$1.62	per c.y.=	$84.24
Widening	27+20	to	28+50	29	cy. @	$1.35	per c.y.=	$39.15
Ravel removal	0+00	to	46+25	130	cy. @	$2.10	per c.y.=	$273.00
Spread & compact				337	cy. @	$0.55	per c.y.=	$185.35
							TOTAL ENDHAUL	**$821.77**

CULVERTS - MATERIALS & INSTALLATION(Culvertsare just the culvert purchase cost)

90	LF of 24"	$2,146.50	
70	LF of 30"	$2,253.00	
Culvert Stakes & Markers			
5	markers	$45.00	
		TOTAL CULVERTS	**$4,444.50**

ROCK

0+00 to	46+25	2,560	cy. of	Jawrun	@	$19.34	per c.y.=	$49,510.40
Intersection Widening	0+00	30	cy. of	Jawrun	@	$18.85	per c.y.=	$565.50
Base Rock	3+50	100	cy. of	Jawrun	@	$17.42	per c.y.=	$1,742.00
Energy Dissipator	9+15	5	cy. of	Rip Rap	@	$16.84	per c.y.=	$84.20
Energy Dissipator	9+50	5	cy. of	Rip Rap	@	$16.85	per c.y.=	$84.25
Edge Repair	17+85	10	cy. of	Jawrun	@	$17.02	per c.y.=	$170.20
Edge Repair	23+85	10	cy. of	Jawrun	@	$17.15	per c.y.=	$171.50
Spot Rock	25+55	50	cy. of	Jawrun	@	$19.34	per c.y.=	$967.00
Turnaround	25+55	30	cy. of	Jawrun	@	$19.38	per c.y.=	$581.40
Landing Rock	26+90	170	cy. of	Jawrun	@	$19.42	per c.y.=	$3,301.40
Energy Dissipator	32+50	10	cy. of	Rip Rap	@	$17.34	per c.y.=	$173.40
Energy Dissipator	34+60	5	cy. of	Rip Rap	@	$17.38	per c.y.=	$86.90
Landing Rock	42+80	140	cy. of	Jawrun	@	$19.75	per c.y.=	$2,765.00
Landing Rock	46+25	170	cy. of	Jawrun	@	$19.83	per c.y.=	$3,371.10
Base Rock	9+15	100	cy. of	Jawrun	@	$17.54	per c.y.=	$1,754.00
Base Rock	32+50	100	cy. of	Jawrun	@	$18.04	per c.y.=	$1,804.00
Base Rock	34+60	100	cy. of	Jawrun	@	$18.08	per c.y.=	$1,808.00
Widening	As Directed	50	cy. of	Jawrun	@	$17.80	per c.y.=	$890.00
							TOTAL ROCK	**$69,830.25**

SPECIAL PROJECTS

Construct Landings	2.00	hours @	$220.00	per hour	$440.00
Construct Fills -	12.00	hours @	$220.00	per hour	$2,640.00
Construct waste areas -	2.00	hours @	$220.00	per hour	$440.00
Ditch - Endhaul	0.30	stations @	$145.00	per station	$43.50
Endhaul stumps from landing -	0.25	hours @	$385.00	per hour	$96.25
Grade and shape road -	46.25	stations @	$24.40	per station	$1,128.50
Roll subgrade w/ vibratory roller prior to rocking -	46.25	stations @	$19.40	per station	$897.25
Remove large stumps -	2.00	lump sum @	$110.00		$220.00
Grass seed and fertilize -	2.12	acres @	$310.00	per acre	$657.20
Mulching -	2.50	acres @	$865.00	per acre	$2,162.50
				TOTAL SPECIAL PROJECTS	**$8,725.20**

GRAND TOTAL **$90,768.01**

SUMMARY OF CONSTRUCTION COST

Sale: **Standard Grade South** Road: **S to T**

Construction -			Improvement -			Reconstruction -		
	2+60	stations		0+00	stations		0+00	stations
	0.05	miles		0.00	miles		0.00	miles

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

Station	to	Station	Avg. Sideslope	Avg. Dist. To W.A. (mi.)	Outslope/Ditch	Cost per Station		Drill & Shoot	Endhaul	
0+00		2+60	35%		Outslope	$265	=			$689.00
									TOTAL	**$689.00**

ROCK

0+00	to	2+60	140	cy. of	Jawrun	@	$19.11	per c.y.=	$2,675.40	
Intersection Widening		0+00	30	cy. of	Jawrun	@	$19.08	per c.y.=	$572.40	
Landing Rock		2+60	220	cy. of	Jawrun	@	$19.14	per c.y.=	$4,210.80	
									TOTAL ROCK	**$7,458.60**

SPECIAL PROJECTS

Construct Landings	2.00	hours @	$220.00	per hour	$440.00
Endhaul stumps from landing -	0.25	hours @	$385.00	per hour	$96.25
Grade and shape road -	2.60	stations @	$24.40	per station	$63.44
Roll subgrade w/ vibratory roller prior to rocking -	2.60	stations @	$19.40	per station	$50.44
Remove large stumps -	10.00	lump sum @	$110.00		$1,100.00
Grass seed and fertilize -	0.12	acres @	$310.00	per acre	$37.20
				TOTAL SPECIAL PROJECTS	**$1,787.33**

GRAND TOTAL **$9,934.93**

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Rip Rap Source	Location:	Varies
Sale:	**Standard Grade South**	Road:	610 c.y.
Swell:	1.40	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	610 c.y.
Drill Pct.:	0%	In Place Total:	436 c.y.

Rip Rock:	$3.35	/cu.yd.	x	436	cu.yds.	=	$1,460.60
Sort Rock:	$1.20	/cu.yd.	x	610	cu.yds.	=	$732.00
Load Dump Truck:	$1.20	/cu.yd.	x	610	cu.yds.	=	$732.00
					Subtotal		$2,924.60
Move in Excavator	1	@		$404.64		=	$404.64
					Subtotal		$404.64
					TOTAL PRODUCTION COSTS		$3,329.24

Base Cost= $5.46 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Energy Dissipator to 279+05 (Rip	2.75	1.00	5.46	9.21	40		$368.40
A to B Energy Dissipator (Pitrun)	4.18	1.25	5.46	10.89	40		$435.60
A to B Energy Dissipator (Rip Rap)	4.18	1.00	5.46	10.64	10		$106.40
A to B Energy Dissipator (Rip Rap)	3.52	1.00	5.46	9.98	5		$49.90
A to B Energy Dissipator (Rip Rap)	3.33	1.00	5.46	9.79	5		$48.95
A to B Energy Dissipator (Rip Rap)	3.26	1.00	5.46	9.72	20		$194.40
A to B Fill (Pitrun)	2.74	1.25	5.46	9.45	150		$1,417.50
A to B Energy Dissipator (Rip Rap)	2.74	1.00	5.46	9.20	10		$92.00
A to B Energy Dissipator (Rip Rap)	1.93	1.00	5.46	8.39	5		$41.95
A to B Fill (Pitrun)	1.79	1.25	5.46	8.50	200		$1,700.00
A to B Energy Dissipator (Rip Rap)	1.79	1.00	5.46	8.25	10		$82.50
A to B Energy Dissipator Above Culv. (Ri	1.60	1.00	5.46	8.06	10		$80.60
A to B Energy Dissipator (Rip Rap)	1.46	1.00	5.46	7.92	5		$39.60
A to B Fill (Pitrun)	1.51	1.25	5.46	8.22	60		$493.20
A to B Energy Dissipator (Rip Rap)	1.51	1.00	5.46	7.97	10		$79.70
A to B Energy Dissipator (Rip Rap)	1.96	1.00	5.46	8.42	10		$84.20
A to B Energy Dissipator (Rip Rap)	3.17	1.00	5.46	9.63	10		$96.30
A to B Energy Dissipator (Rip Rap)	3.87	1.00	5.46	10.33	10		$103.30
				Total C.Y.	610	Sub Total	$5,514.50
						TOTAL ROCKING COSTS	$5,514.50

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Firebreak 8 Pit	Location:	Sec. 12, T2N, R8W, W.M.		
Sale:	**Standard Grade South**		Road:		6735 c.y.
Swell:	1.40		Stockpile:		c.y.
Shirinkage	1.16		Total Truck Loads:		6735 c.y.
Drill Pct.:	0%		In Place Total:		4811 c.y.

Pit Development & Cleanup including Clearing and grubbing of Waste Area @ adjacent to pit, place overburden in Waste Area, spread and compact. $3,080.00

Rip Rock:	$3.35	/cu.yd.	x	6735	cu.yds.	=	$22,562.25
Sort Rock:	$1.20	/cu.yd.	x	6735	cu.yds.	=	$8,082.00
Load Crusher:	$1.20	/cu.yd.	x	6735	cu.yds.	=	$8,082.00
Crush Rock:	$4.00	/cu.yd.	x	6735	cu.yds.	=	$26,940.00
Load Dump Truck:	$1.20	/cu.yd.	x	6735	cu.yds.	=	$8,082.00
					Subtotal		$76,828.25

Move In/Set-up Jaw	1	@	$2,121.00	=	$2,121.00
Move in Roller and Compactor	1	@	$586.50	=	$586.50
Move in Grader	1	@	$686.57	=	$686.57
Move in D-8	1	@	$893.29	=	$893.29
Move in Loader	1	@	$694.29	=	$694.29
Move in Excavator	1	@	$809.29	=	$809.29
Move in Trucks	4	@	$241.57	=	$966.28
Move in Water Truck	1	@	$241.57	=	$241.57
				Subtotal	$6,998.79

TOTAL PRODUCTION COSTS	$83,827.04

Base Cost= $12.45 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Energy Dissipator from 279+05 (I	2.66	1.00	12.45	16.11	70		$1,127.70
A to B Fill (Pitrun)	4.37	1.70	12.45	18.52	60		$1,111.20
A to B Fill (Pitrun)	4.23	1.70	12.45	18.38	300		$5,514.00
A to B Energy Dissipator (Rip Rap)	4.23	1.00	12.45	17.68	10		$176.80
A to B Energy Dissipator (Rip Rap)	3.96	1.00	12.45	17.41	5		$87.05
A to B Backfill, bedding, road surface (C	2.60	1.70	12.45	16.75	60		$1,005.00
A to B Energy Dissipator (Rip Rap)	2.60	1.00	12.45	16.05	10		$160.50
A to B Turnaround (Jawrun)	1.92	2.00	12.45	16.37	40		$654.80
A to B Energy Dissipator (Rip Rap)	1.50	1.00	12.45	14.95	5		$74.75
A to B Widening (Jawrun)	1.53	3.20	12.45	17.18	90		$1,546.20
E to F Approach Widening (Jawrun)	4.10	3.20	12.45	19.75	100		$1,975.00
E to F Fill (Jawrun)	4.11	3.20	12.45	19.76	20		$395.20
E to F Landing Rock (Jawrun)	4.15	3.20	12.45	19.80	170		$3,366.00
G to H 0 260 (Jawrun)	2.53	3.20	12.45	18.18	140		$2,545.20
G to H Intersection Widening (Jawrun)	2.50	3.20	12.45	18.15	70		$1,270.50
G to H Landing Rock (Jawrun)	2.55	3.20	12.45	18.20	140		$2,548.00
I to J Energy Dissipator (Rip Rap)	2.27	1.00	12.45	15.72	5		$78.60
I to J Energy Dissipator (Rip Rap)	2.26	1.00	12.45	15.71	5		$78.55
I to J Energy Dissipator (Rip Rap)	2.44	1.00	12.45	15.89	10		$158.90
I to J Energy Dissipator (Rip Rap)	3.05	1.00	12.45	16.50	30		$495.00
I to J Energy Dissipator (Rip Rap)	3.12	1.00	12.45	16.57	5		$82.85
I to J Energy Dissipator (Rip Rap)	3.30	1.00	12.45	16.75	5		$83.75
I to J Energy Dissipator (Rip Rap)	3.39	1.00	12.45	16.84	10		$168.40
K to L Energy Dissipator (Rip Rap)	2.15	1.00	12.45	15.60	5		$78.00
M to N 0 590 (Jawrun)	1.58	3.20	12.45	17.23	340		$5,858.20
M to N Intersection Widening (Jawrun)	1.52	3.20	12.45	17.17	30		$515.10
M to N Energy Dissipator (Rip Rap)	1.62	1.00	12.45	15.07	5		$75.35
M to N Landing Rock (Jawrun)	1.65	3.20	12.45	17.30	140		$2,422.00
O to P 0 515 (Jawrun)	1.44	3.20	12.45	17.09	280		$4,785.20
O to P Landing Rock (Jawrun)	1.45	3.20	12.45	17.10	330		$5,643.00
O to P Landing Rock (Jawrun)	1.54	3.20	12.45	17.19	100		$1,719.00
Q to R 0 4625 (Jawrun)	3.69	3.20	12.45	19.34	2560		$49,510.40
Q to R Intersection Widening (Jawrun)	3.20	3.20	12.45	18.85	30		$565.50
Q to R Base Rock (Jawrun)	3.27	1.70	12.45	17.42	100		$1,742.00
Q to R Energy Dissipator (Rip Rap)	3.39	1.00	12.45	16.84	5		$84.20
Q to R Energy Dissipator (Rip Rap)	3.40	1.00	12.45	16.85	5		$84.25
Q to R Edge Repair (Jawrun)	3.57	1.00	12.45	17.02	10		$170.20
Q to R Edge Repair (Jawrun)	3.70	1.00	12.45	17.15	10		$171.50
Q to R Spot Rock (Jawrun)	3.69	3.20	12.45	19.34	50		$967.00
Q to R Turnaround (Jawrun)	3.73	3.20	12.45	19.38	30		$581.40
Q to R Landing Rock (Jawrun)	3.77	3.20	12.45	19.42	170		$3,301.40
Q to R Energy Dissipator (Rip Rap)	3.89	1.00	12.45	17.34	10		$173.40
Q to R Energy Dissipator (Rip Rap)	3.93	1.00	12.45	17.38	5		$86.90
Q to R Landing Rock (Jawrun)	4.10	3.20	12.45	19.75	140		$2,765.00
Q to R Landing Rock (Jawrun)	4.18	3.20	12.45	19.83	170		$3,371.10
Q to R Base Rock (Jawrun)	3.39	1.70	12.45	17.54	100		$1,754.00
Q to R Base Rock (Jawrun)	3.89	1.70	12.45	18.04	100		$1,804.00
Q to R Base Rock (Jawrun)	3.93	1.70	12.45	18.08	100		$1,808.00
Q to R Widening (Jawrun)	3.65	1.70	12.45	17.80	50		$890.00
S to T 0 260 (Jawrun)	3.46	3.20	12.45	19.11	140		$2,675.40
S to T Intersection Widening (Jawrun)	3.43	3.20	12.45	19.08	30		$572.40
S to T Landing Rock (Jawrun)	3.49	3.20	12.45	19.14	220		$4,210.80
				Total C.Y.	6735	Sub Total	$125,263.35

TOTAL ROCKING COSTS	$125,263.35

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Firebreak 8 Stockpile	Location:	Sec. 12 , T2N, R8W, W.M.		
Sale:	**Standard Grade South**		Road:	2880	c.y.
Swell:	1.40		Stockpile:		c.y.
Shirinkage	1.16		Total Truck Loads:	2880	c.y.
Drill Pct.:	0%		In Place Total:	2057	c.y.

Load Dump Truck: $1.20 /cu.yd. x 2880 cu.yds. = $3,456.00

Subtotal $3,456.00

TOTAL PRODUCTION COSTS $3,456.00

Base Cost= $1.20 Per Cu.Yd.

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B Spot Rock/Leveling Rock (Crushe	3.20	3.20	1.20	7.60	200		$1,520.00
A to B Culvert backfill/bedding from 279+	3.20	1.25	1.20	5.65	260		$1,469.00
A to B Backfill, bedding, road surface (Cr	4.93	1.25	1.20	7.38	80		$590.40
A to B Backfill (Crushed)	3.53	1.25	1.20	5.98	30		$179.40
A to B Crushed Rock Berm (Crushed)	2.59	1.25	1.20	5.04	10		$50.40
A to B Crushed Rock Berm (Crushed)	2.45	1.25	1.20	4.90	10		$49.00
A to B Crushed Rock Berm (Crushed)	2.37	1.25	1.20	4.82	5		$24.10
A to B Widening (Crushed)	2.23	3.20	1.20	6.63	30		$198.90
C to D Spot Rock (Crushed)	4.83	3.20	1.20	9.23	50		$461.50
I to J 0 5625 (Crushed)	3.52	3.20	1.20	7.92	1270		$10,058.40
I to J 5625 9250 (Crushed)	5.69	3.20	1.20	10.09	620		$6,255.80
I to J Approach Widening (Crushed)	2.92	3.20	1.20	7.32	30		$219.60
I to J Approach Widening (Crushed)	4.88	3.20	1.20	9.28	50		$464.00
I to J Culvert bedding/backfill (Crushed)	2.97	1.25	1.20	5.42	20		$108.40
I to J Culvert bedding/backfill (Crushed)	3.23	1.25	1.20	5.68	40		$227.20
I to J Culvert bedding/backfill (Crushed)	3.91	1.25	1.20	6.36	20		$127.20
I to J Leveling Rock (Crushed)	3.52	3.20	1.20	7.92	100		$792.00
I to J Crushed Rock Berm (Crushed)	4.58	1.25	1.20	7.03	5		$35.15
K to L Spot Rock (Crushed)	2.86	3.20	1.20	7.26	30		$217.80
K to L Crushed Rock Berm (Crushed)	2.85	1.25	1.20	5.30	5		$26.50
K to L Culvert Bedding//Surfacing (Crush	2.85	1.25	1.20	5.30	15		$79.50
				Total C.Y.	2880	Sub Total	$23,154.25

TOTAL ROCKING COSTS $23,154.25

ROCK PIT DEVELOPMENT AND CRUSHING COST SUMMARY

Pit:	Jordan Stockpile	Location:	Sec. 29, T1N, R7W, W.M.
Sale:	**Standard Grade South**	Road:	6160 c.y.
Swell:	1.40	Stockpile:	c.y.
Shirinkage	1.16	Total Truck Loads:	6160 c.y.
Drill Pct.:	0%	In Place Total:	4400 c.y.

Load Dump Truck:		$1.20	/cu.yd.	x	6160	cu.yds. =	$7,392.00
						Subtotal	$7,392.00
Move in Loader		1	@		$694.29	=	$694.29
Move in Trucks		4	@		$241.57	=	$966.28
						Subtotal	$1,660.57
					TOTAL PRODUCTION COSTS		$9,052.57
Base Cost=	$1.47	Per Cu.Yd.					

Road Segment	Haul Cost $/cu.yd.	Proc Cost $/cu.yd.	Base/load Cost. $/cu.yd.	Cost $/cu.yd.	Number Cu. Yds		ROCK COST
A to B 0 12840 (Crushed)	11.80	3.20	1.47	16.47	5060		$83,338.20
A to B 25355 27905 (Crushed)	16.08	3.20	1.47	20.75	580		$12,035.00
A to B Culvert backfill/bedding to 279+05	13.40	1.25	1.47	16.12	180		$2,901.60
A to B Culvert bedding/backfill (Crushed)	10.48	1.25	1.47	13.20	60		$792.00
A to B Backfill, bedding, road surface (Cr	11.91	1.25	1.47	14.63	60		$877.80
A to B Backfill, bedding, road surface (Cr	12.87	1.25	1.47	15.59	70		$1,091.30
A to B Turnout (Crushed)	13.10	3.20	1.47	17.77	40		$710.80
A to B Backfill, bedding, road surface (Cr	13.63	1.25	1.47	16.35	60		$981.00
A to B Backfill, bedding, road surface (Cr	14.18	1.25	1.47	16.90	50		$845.00
				Total C.Y.	6160	Sub Total	$103,572.70

TOTAL ROCKING COSTS	$103,572.70

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

Sale: **Standard Grade South**

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

No.	EQUIPMENT DESCRIPTION	Move in Cost	Pilot Cars	Within Area Move ($/mile)	Begin Mileage	End Mileage	Total Miles	Within Area Cost	Total Cost
1	Excavators (Large)	$809.29	1	$44.80	0.00	9.80	9.8	$439.04	$1,248.33
1	Tractor (D8)	$893.29	2	$15.10	0.00	9.80	9.8	$147.98	$1,041.27
2	Dump Truck (Off Hiway)	$1,565.10	1	$4.75	0.00	9.80	9.8	$93.10	$1,658.20
					TOTAL MOVE-IN COSTS:				$3,947.80

OREGON DEPARTMENT OF FORESTRY
CRUISE REPORT
STANDARD GRADE SOUTH

Type of Sale

Regeneration harvest, Recovery

Legal Description

Section(s) 12 of T2N R8W, Section(s) 7, 8, 17, 18 of T2N R7W W.M.

Sale Acreage

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

	ACRES	
	Gross	Net
Unit 1 (Modified Clearcut)	137	108
Unit 2 (Modified Clearcut)	127	102
Unit 3 (Modified Clearcut)	149	111
Total	414	321

Gross Acres
Area within the Timber Sale Boundary signs

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

Cruising Procedures

A. Cruise Method

The timber sale was cruised using variable plot sampling. All conifers 8" DBH and greater containing 20 board feet and all hardwoods 10" DBH and greater containing 30 board feet were recorded on all plots. Species, DBH (to nearest inch), merchantable bole length (to nearest foot), form factor, and defect were recorded for all measure trees. Merchantable heights were recorded to 6" and 7" outside bark for conifers and hardwoods, respectively.

B. Plot size

Unit	BAF	Spacing
1	33.61	350' x 350'
2	40.00	350' x 350'
3	40.00	350' x 350'

C. Grading System

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

Computation Procedure

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

Net sale acreage was used for volume calculation.

	Cruise Statistics (Board Foot Volumes)			
Unit	Acres	Number of Plots	SE (%)	CV (%)
1	108	32	12.1	68.5
2	102	39	6.5	40.7
3	111	39	6.8	42.2
Project Total	321	110	5.2	54.9

Hidden Defect and Breakage

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

Timber Description

All units were planted between 1959 and 1960.

Unit 1 is clearcut. The Unit is a Douglas-fir dominated stand with a small red alder component. Approximately half of the north end was thinned in 2004 with West Standard Timber Sale.

Unit 2 is clearcut. The Unit is a Douglas-fir dominated stand with minor components of noble fir, western hemlock and red alder. The unit was thinned in 2004 as part of the West Standard Timber Sale.

Unit 3 is clearcut. The Unit is a Douglas-fir dominated stand with minor components of noble fir, western hemlock and red alder component. Approximately 80% of the unit was thinned in 2004 with West Standard Timber Sale.

Sale Unit	Age	Species	DBH	Merchantable Bole Height (feet)
1	63	Douglas-fir	16.7	70
		Red Alder	14.2	25
2	65	Douglas-fir	17.5	63
		Red alder	12.8	43
		Western Hemlock	18.9	56
		Noble fir	24.8	91

3	63	Douglas-fir	18.7	68
		Red Alder	16.2	47
		Western hemlock	19.1	61
		Noble fir	16.5	53

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

Cruiser /Dates

ODF Staff Cruised; November 2024.

Revenue Distribution

BOF – 100%

Tax Code: 5600 (100%)

Deed Numbers: 35 (Tillamook County) and 591 (Longview Fibre Co.)

Attachments

Volume Summary

Stand Table (3)

Log Stock Table (3)

Species, Sort, Grade Table (3)

Logging Plan Map

Stand and Log Stock Tables Species Key

DF – Douglas-fir
RA – Red alder
WH – Western hemlock
NF – Noble fir
NL – Noble fir leave

TC TLOGSTVB

Log Stock Table - MBF

Project: STDGRDS

T02N R08W S18 T0100

T02N R08W S18 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	08W	18	UNIT 1	0100	108.00	32	111

Page 1
Date 4/1/2025
Time 12:58:03PM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40	1,230		1,230	43.5						220	440	521	48			
DF		CO	3	30	2		2	.1			2									
DF		CO	3	33	3		3	.1			3									
DF		CO	3	34	11		11	.4			9	2								
DF		CO	3	40	1,192	.4	1,187	42.0			195	296	471	142	52	31				
DF		CO	4	12	10		10	.4		10										
DF		CO	4	13	9		9	.3		3				6						
DF		CO	4	15	7		7	.2		7										
DF		CO	4	16	5		5	.2		5										
DF		CO	4	17	4		4	.1		3	2									
DF		CO	4	18	10		10	.3		5	5									
DF		CO	4	19	10		10	.4		7	3									
DF		CO	4	20	3		3	.1		3										
DF		CO	4	21	3		3	.1		2	2									
DF		CO	4	22	13		13	.4		5	2	6								
DF		CO	4	23	14	3.0	14	.5		13	1									
DF		CO	4	24	4		4	.2		4										
DF		CO	4	25	4		4	.1		2	2									
DF		CO	4	26	20		20	.7		20										
DF		CO	4	27	12		12	.4		12										
DF		CO	4	28	10	4.9	10	.3		8	2									
DF		CO	4	29	7		7	.2		4	3									
DF		CO	4	30	2		2	.1		2										
DF		CO	4	31	4		4	.2		4										
DF		CO	4	33	21		21	.7		21										
DF		CO	4	34	14		14	.5		14										
DF		CO	4	35	3		3	.1		3										
DF		CO	4	36	13		13	.5		13										
DF		CO	4	37	11		11	.4		11										
DF		CO	4	40	181		181	6.4		54	69	15	22	21						
DF		Totals			2,834		2,828	98.5		233	300	320	493	389	492	552	48			
RA		H	4	20	13		13	30.1			13									
RA		H	4	23	12		12	27.9			12									
RA		H	4	28	7		7	16.9			7									
RA		H	4	30	11		11	25.2			11									
RA		Totals			43		43	1.5			43									
Total All Species					2,876		2,870	100.0		233	342	320	493	389	492	552	48			

TC TSTNDSUM

Stand Table Summary

Project **STDGRDS**

T02N R08W S18 T0100

T02N R08W S18 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	08W	18	UNIT 1	0100	108.00	32	111

Date: 04/01/202[illegible]

Time: 12:58:04PM

Spc	ST	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	83	48	4.837	1.69	4.84	4.6	20.0	.64	22	97	69	24	10
DF		9	2	82	51	7.643	3.38	7.64	7.0	30.0	1.53	54	229	165	58	25
DF		10	4	84	89	12.382	6.75	18.57	9.7	40.0	5.12	180	743	553	194	80
DF		11	2	80	63	5.117	3.38	5.12	15.3	40.0	2.24	78	205	241	85	22
DF		12	3	84	87	6.449	5.07	12.90	11.7	43.3	4.30	151	559	464	163	60
DF		13	1	85	73	1.832	1.69	1.83	21.1	70.0	1.10	39	128	119	42	14
DF		14	8	85	85	12.635	13.51	20.53	19.4	70.0	11.34	398	1,437	1,224	430	155
DF		15	9	84	88	12.382	15.20	22.01	20.9	78.1	13.12	460	1,720	1,417	497	186
DF		16	6	85	101	7.255	10.13	13.30	27.0	101.8	10.24	359	1,354	1,105	388	146
DF		17	8	85	102	8.569	13.51	19.28	25.2	96.1	13.86	486	1,853	1,497	525	200
DF		18	5	85	111	4.777	8.44	10.51	30.3	120.0	9.09	319	1,261	981	344	136
DF		19	7	84	112	6.002	11.82	13.72	33.7	128.8	13.17	462	1,766	1,422	499	191
DF		20	4	84	121	3.096	6.75	8.51	32.8	124.5	7.97	280	1,060	860	302	115
DF		21	7	83	115	4.914	11.82	10.53	39.9	170.7	11.97	420	1,797	1,293	454	194
DF		22	13	87	119	8.314	21.95	20.47	43.7	186.6	25.50	895	3,818	2,754	966	412
DF		23	4	83	115	2.341	6.75	6.44	42.9	167.3	7.88	276	1,077	851	299	116
DF		24	3	87	128	1.612	5.07	4.84	47.3	212.2	6.52	229	1,026	704	247	111
DF		25	6	84	130	2.972	10.13	7.92	57.2	247.5	12.92	453	1,961	1,396	490	212
DF		26	8	83	118	3.663	13.51	9.62	57.9	236.2	15.87	557	2,271	1,714	601	245
DF		27	1	89	140	.425	1.69	1.27	65.5	316.7	2.38	83	403	257	90	44
DF		28	2	84	111	.790	3.38	1.97	68.7	276.0	3.87	136	545	418	146	59
DF		29	1	82	117	.368	1.69	.37	131.1	600.0	1.38	48	221	149	52	24
DF		31	1	85	141	.322	1.69	.97	86.2	410.0	2.37	83	396	256	90	43
DF		34	1	83	105	.268	1.69	.54	117.8	470.0	1.80	63	252	194	68	27
DF		Totals	107	84	94	118.964	180.65	223.70	29.2	117.0	186.16	6,532	26,181	20,106	7,055	2,828
RA		11	1	71	37	5.968	3.94	5.97	8.6	20.0	1.41	51	119	152	55	13
RA		14	1	69	33	3.684	3.94	3.68	16.4	30.0	1.66	60	111	179	65	12
RA		17	1	74	39	2.499	3.94	2.50	29.5	40.0	2.02	74	100	219	79	11
RA		18	1	81	34	2.229	3.94	2.23	27.5	30.0	1.68	61	67	182	66	7
RA		Totals	4	73	36	14.380	15.75	14.38	17.1	27.6	6.77	246	397	731	266	43
Totals			111	83	88	133.344	196.41	238.08	28.5	111.6	192.93	6778	26,578	20,837	7,321	2,870

TC TLOGSTVB

Log Stock Table - MBF

Project: STDGRDS

T02N R07W S07 T0100

T02N R07W S07 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	07	UNIT 2	0100	102.00	39	105

Page 1
Date 1/10/2025
Time 3:38:14PM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	25	19		19	1.1								19				
DF		CO	2	40	816	1.2	805	45.0						197	228	234	147			
DF		CO	3	22	2		2	.1					2							
DF		CO	3	27	17		17	.9					17							
DF		CO	3	35	3		3	.2			3									
DF		CO	3	36	3		3	.2			3									
DF		CO	3	37	4		4	.2			4									
DF		CO	3	40	595	1.3	588	32.9			96	104	272	80		37				
DF		CO	4	13	2		2	.1		2										
DF		CO	4	15	3		3	.2			2	1								
DF		CO	4	16	1		1	.1			1									
DF		CO	4	17	4		4	.2		4										
DF		CO	4	18	1		1	.1			1									
DF		CO	4	19	5		5	.3		4		2								
DF		CO	4	20	10		10	.5		10										
DF		CO	4	21	2		2	.1				2								
DF		CO	4	22	8		8	.4		8										
DF		CO	4	23	17		17	.9		15		2								
DF		CO	4	24	12		12	.7		12										
DF		CO	4	26	4		4	.2		4										
DF		CO	4	29	6		6	.3		6										
DF		CO	4	30	22		22	1.2		22										
DF		CO	4	31	19		19	1.1		19										
DF		CO	4	32	6		6	.3		6										
DF		CO	4	33	4		4	.2		4										
DF		CO	4	34	8		8	.4		8										
DF		CO	4	35	8		8	.4		8										
DF		CO	4	36	12		12	.7		12										
DF		CO	4	40	193		193	10.8		27	40	106	20							
DF		Totals			1,807		1,789	70.9		169	151	216	311	276	228	290	147			
RA		H	4	29	13		13	12.9			13									
RA		H	4	12	2		2	1.6			2									
RA		H	4	15	3		3	2.9			3									
RA		H	4	38	17		17	16.0			17									
RA		H	4	39	17		17	16.0			17									
RA		H	4	40	57	8.2	53	50.6			27	26								
RA		Totals			109	4.3	104	4.1			78	26								
NF		CO	2	40	259		259	89.5							103		155			
NF		CO	3	40	26		26	9.1			13	13								
NF		CO	4	24	4		4	1.5				4								
NF		Totals			289		289	11.5			13	17			103		155			
WH		CO	2	40	59		59	44.9						9	34	15				
WH		CO	3	31	2		2	1.3			2									
WH		CO	3	40	41		41	31.4					41							
WH		CO	4	15	3		3	2.1		3										
WH		CO	4	16	2		2	1.2		2										
WH		CO	4	17	1		1	.9			1									

TC TLOGSTVB

Log Stock Table - MBF

Project: STDGRDS

T02N R07W S07 T0100

T02N R07W S07 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	07	UNIT 2	0100	102.00	39	105

Page 2
Date 1/10/2025
Time 3:38:14PM

Spp	S T	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+
WH		CO	4	18	1		1	1.1		1										
WH		CO	4	21	3		3	1.9		1		1								
WH		CO	4	24	1		1	.9		1										
WH		CO	4	40	19		19	14.3		2		9		8						
WH		Totals			131		131	5.2		10		13		50		9		34		15
NL		CO	2	40	188		188	90.2						18		29		33		23		84
NL		CO	3	20	1		1	.6				1								
NL		CO	3	40	15	12.8	13	6.5				8		5						
NL		CO	4	12	1		1	.4				1								
NL		CO	4	29	2		2	.8		2										
NL		CO	4	40	3		3	1.5		3										
NL		Totals			210		208	8.2		5		11		23		29		33		23		84
Total All Species					2,546		2,521	100.0		184		256		269		361		309		394		339		325		84

TC TSTNDSUM

Stand Table Summary

Project **STDGRDS**

T02N R07W S07 T0100

T02N R07W S07 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	07	UNIT 2	0100	102.00	39	105

Page: 1
Date: 01/10/202
Time: 3:38:16PM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	83	48	5.837	2.04	5.84	4.6	20.0	.77	27	117	79	28	12
DF		9	1	81	62	4.612	2.04	4.61	8.7	30.0	1.14	40	138	116	41	14
DF		10	1	81	74	3.736	2.04	3.74	13.6	40.0	1.45	51	149	148	52	15
DF		11	1	78	49	3.087	2.04	3.09	12.3	30.0	1.09	38	93	111	39	9
DF		13	3	83	85	6.631	6.11	11.05	16.0	54.0	5.05	177	597	515	181	61
DF		14	7	82	65	13.341	14.26	17.15	19.6	56.7	9.58	336	972	977	343	99
DF		15	3	82	80	4.981	6.11	9.96	17.6	61.7	5.00	175	614	510	179	63
DF		16	3	82	85	4.378	6.11	8.76	21.8	71.7	5.45	191	627	556	195	64
DF		17	2	85	93	2.585	4.07	5.17	26.1	97.5	3.85	135	504	393	138	51
DF		18	9	83	85	10.377	18.34	19.60	29.7	97.1	16.58	582	1,902	1,691	593	194
DF		19	3	83	81	3.104	6.11	4.14	42.0	135.0	4.95	174	559	505	177	57
DF		20	9	81	96	8.405	18.34	16.81	37.7	115.6	18.08	634	1,942	1,844	647	198
DF		21	5	83	103	4.235	10.19	8.47	44.6	152.0	10.78	378	1,288	1,099	386	131
DF		22	3	85	104	2.315	6.11	4.63	47.7	170.0	6.30	221	787	643	226	80
DF		23	3	84	109	2.118	6.11	4.24	53.9	206.7	6.51	228	876	664	233	89
DF		24	4	85	95	2.594	8.15	5.84	48.3	177.8	8.04	282	1,038	820	288	106
DF		25	4	85	103	2.391	8.15	4.78	63.6	243.7	8.66	304	1,165	883	310	119
DF		26	3	84	105	1.658	6.11	3.87	60.5	227.1	6.67	234	879	680	239	90
DF		27	2	84	116	1.025	4.07	2.56	55.9	234.0	4.09	143	600	417	146	61
DF		28	1	82	108	.476	2.04	.95	82.5	315.0	2.24	79	300	229	80	31
DF		29	2	88	123	.888	4.07	2.67	67.8	318.3	5.15	181	848	525	184	87
DF		31	2	85	125	.777	4.07	2.33	78.4	358.3	5.21	183	836	532	187	85
DF		35	2	80	134	.610	4.07	1.52	93.9	464.0	4.08	143	707	416	146	72
DF		Totals	74	83	82	90.162	150.77	151.77	32.5	115.6	140.72	4,937	17,539	14,353	5,036	1,789
NF		20	1	91	100	2.194	4.79	4.39	43.0	175.0	4.53	189	768	462	193	78
NF		29	2	90	115	2.087	9.57	5.22	80.2	396.0	10.04	418	2,066	1,024	427	211
NF		Totals	3	91	107	4.281	14.36	9.61	63.2	295.0	14.57	607	2,834	1,486	619	289
NL		20	1	88	96	.739	1.61	1.48	39.4	140.0	1.40	58	207	143	59	21
NL		23	2	92	93	1.117	3.22	2.23	52.0	220.0	2.79	116	492	285	119	50
NL		30	1	86	101	.328	1.61	.66	97.1	400.0	1.53	64	263	156	65	27
NL		33	1	91	112	.271	1.61	.81	87.0	443.3	1.70	71	361	173	72	37
NL		34	2	92	115	.511	3.22	1.28	110.0	560.0	3.38	141	716	344	143	73
NL		Totals	7	90	100	2.967	11.28	6.46	69.6	315.4	10.80	450	2,038	1,101	459	208
WH		13	1	85	72	1.205	1.11	1.21	23.8	70.0	.92	29	84	94	29	9
WH		16	1	80	17	.796	1.11	.80	12.3	20.0	.31	10	16	32	10	2
WH		17	2	85	75	1.410	2.22	2.82	23.6	85.0	2.13	67	240	218	68	24
WH		19	1	84	71	.564	1.11	1.13	29.9	100.0	1.08	34	113	110	34	12
WH		20	1	83	67	.509	1.11	1.02	31.4	100.0	1.02	32	102	104	33	10
WH		21	1	85	66	.462	1.11	.92	33.6	100.0	.99	31	92	101	32	9
WH		22	1	85	94	.421	1.11	.84	49.1	165.0	1.32	41	139	135	42	14
WH		23	2	88	70	.770	2.22	1.54	42.0	145.0	2.07	65	223	211	66	23
WH		24	1	83	74	.354	1.11	.71	48.7	160.0	1.10	34	113	113	35	12
WH		25	1	92	86	.326	1.11	.65	61.5	255.0	1.28	40	166	131	41	17
WH		Totals	12	85	67	6.817	13.33	11.63	32.9	110.8	12.24	382	1,289	1,248	390	131
RA		10	1	80	60	3.291	1.79	3.29	10.8	40.0	.97	35	132	99	36	13
RA		11	2	82	71	5.439	3.59	5.44	16.5	60.0	2.47	90	326	252	91	33
RA		14	1	80	75	1.679	1.79	3.36	15.8	45.0	1.46	53	151	149	54	15
RA		15	3	75	66	4.388	5.38	5.85	27.0	55.0	4.34	158	322	443	161	33
RA		16	1	74	59	1.285	1.79	1.29	36.9	70.0	1.30	47	90	133	48	9

TC TSTNDSUM

Stand Table Summary

Project **STDGRDS**

T02N R07W S07 T0100

T02N R07W S07 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	07	UNIT 2	0100	102.00	39	105

Page: 2
Date: 01/10/202
Time: 3:38:16PM

Spc	ST	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
RA		Totals	8	79	67	16.083	14.36	19.22	19.9	53.1	10.54	383	1,021	1,076	391	104
OC		26	1	86	84	.278	1.03									
OC		Totals	1	86	84	.278	1.03									
Totals			105	83	80	120.588	205.13	198.70	34.0	124.4	188.87	6760	24,720	19,264	6,895	2,521

TC TLOGSTVB

Log Stock Table - MBF

Project: STDGRDS

T02N R07W S08 T0100

T02N R07W S08 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	08	UNIT 3	0100	111.00	39	135

Page 1
Date 4/7/2025
Time 9:21:36AM

Spp	ST	Sort	Grade	Log Len	Gross MBF	% Def	Net MBF	% Spc	Net Volume by Scaling Diameter in Inches 2-3	4-5	6-7	8-9	10-11	12-13	14-15	16-19	20-23	24-29	30-39	40+
DF		CO	2	40	1,800	1.9	1,765	57.4						525	366	727	147			
DF		CO	3	20	2		2	.1				2								
DF		CO	3	29	3		3	.1			3									
DF		CO	3	31	3		3	.1			3									
DF		CO	3	33	17		17	.5					17							
DF		CO	3	35	3		3	.1			3									
DF		CO	3	36	8		8	.3			4	3								
DF		CO	3	37	5		5	.2			5									
DF		CO	3	38	4		4	.1				4								
DF		CO	3	40	996	.1	995	32.4			279	237	479							
DF		CO	4	12	4		4	.1		4										
DF		CO	4	13	3		3	.1		3										
DF		CO	4	14	2		2	.1		2										
DF		CO	4	15	2		2	.1		1	1									
DF		CO	4	16	1		1	.0				1								
DF		CO	4	17	2		2	.1		2										
DF		CO	4	18	20		20	.6		19		1								
DF		CO	4	19	5		5	.2		5										
DF		CO	4	20	7		7	.2		6	2									
DF		CO	4	21	2		2	.1				2								
DF		CO	4	22	3		3	.1		3										
DF		CO	4	23	12		12	.4		10	2									
DF		CO	4	26	10		10	.3		10										
DF		CO	4	27	6		6	.2		4	2									
DF		CO	4	28	21		21	.7		21										
DF		CO	4	29	18		18	.6		18										
DF		CO	4	30	14		14	.5		14										
DF		CO	4	31	7		7	.2		7										
DF		CO	4	32	7		7	.2		7										
DF		CO	4	34	18		18	.6		18										
DF		CO	4	35	4		4	.1		4										
DF		CO	4	36	10		10	.3		10										
DF		CO	4	38	11		11	.4		11										
DF		CO	4	40	83		83	2.7		59						24				
DF		Totals			3,111	1.1	3,076	93.6		236	303	251	496	525	366	752	147			
RA		H	4	16	2		2	4.1			2									
RA		H	4	39	10		10	17.6			10									
RA		H	4	40	45		45	78.3			20	24								
RA		Totals			57		57	1.7			33	24								
WH		CO	2	40	47	2.7	46	56.0							30	16				
WH		CO	3	28	2		2	2.4			2									
WH		CO	3	40	27		27	33.3			12		15							
WH		CO	4	12	2		2	2.1		2										
WH		CO	4	21	3		3	4.1		2	1									
WH		CO	4	26	2		2	2.1			2									
WH		Totals			83	1.6	82	2.5		4	17		15		30	16				
NF		CO	2	40	30		30	42.9								6		24		
NF		CO	3	40	40		40	57.1				40								

TC TLOGSTVB

Log Stock Table - MBF

Project: **STDGRDS**

T02N R07W S08 T0100

T02N R07W S08 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	08	UNIT 3	0100	111.00	39	135

Date **4/7/2025**

Time **9:21:36AM**

Spp	S T	So Gr rt 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+
NF		Totals		70		70	2.1				40				6		24		
Total All Species				3,322	1.1	3,285	100.0		240	353	315	511	525	396	774	147	24		

TC TSTNDSUM

Stand Table Summary

Project **STDGRDS**

T02N R07W S08 T0100

T02N R07W S08 T0100

Twp	Rge	Sec	Tract	Type	Acres	Plots	Sample Trees
02N	07W	08	UNIT 3	0100	111.00	39	135

Page: 1
Date: 04/07/2025
Time: 9:21:38AM

Spc	S T	DBH	Sample Trees	FF 16'	Av Ht Tot	Trees/ Acre	BA/ Acre	Logs Acre	Average Log Net Cu.Ft.	Average Log Net Bd.Ft.	Net Tons/ Acre	Net Cu.Ft. Acre	Net Bd.Ft. Acre	Totals Tons	Totals Cunits	Totals MBF
DF		8	1	83	31	5.852	2.04	5.85	3.6	20.0	.61	21	117	67	24	13
DF		10	1	82	76	3.745	2.04	3.75	13.6	40.0	1.46	51	150	162	57	17
DF		11	3	82	72	9.285	6.13	9.29	14.7	50.0	3.89	137	464	432	152	52
DF		12	6	83	78	15.604	12.26	23.41	12.9	45.6	8.60	302	1,066	955	335	118
DF		13	1	82	87	2.216	2.04	4.43	13.8	45.0	1.74	61	199	194	68	22
DF		14	1	81	98	1.911	2.04	3.82	17.6	60.0	1.91	67	229	213	75	25
DF		15	4	82	98	6.658	8.17	13.32	21.2	80.0	8.05	282	1,065	893	313	118
DF		16	6	82	89	8.777	12.26	16.09	24.3	80.9	11.14	391	1,302	1,236	434	145
DF		17	8	82	88	10.367	16.34	16.85	26.9	89.2	12.92	453	1,503	1,434	503	167
DF		18	10	84	91	11.559	20.43	21.96	30.3	106.3	18.98	666	2,335	2,107	739	259
DF		19	6	82	95	6.224	12.26	12.45	34.0	107.5	12.08	424	1,338	1,341	470	149
DF		20	5	82	104	4.681	10.21	11.24	33.9	115.0	10.85	381	1,292	1,205	423	143
DF		21	6	82	101	5.095	12.26	10.19	43.6	142.5	12.67	445	1,452	1,406	493	161
DF		22	6	84	80	4.643	12.26	7.74	44.1	143.0	9.73	341	1,106	1,079	379	123
DF		23	10	81	98	7.079	20.43	14.87	49.4	161.4	20.92	734	2,400	2,322	815	266
DF		24	6	83	89	3.901	12.26	6.50	55.0	186.0	10.20	358	1,209	1,132	397	134
DF		25	7	84	106	4.194	14.30	7.79	66.3	258.5	14.71	516	2,013	1,633	573	223
DF		26	3	81	95	1.662	6.13	2.22	67.9	240.0	4.29	150	532	476	167	59
DF		27	4	83	110	2.055	8.17	4.62	65.7	261.1	8.66	304	1,207	962	337	134
DF		28	10	84	98	4.777	20.43	9.55	75.3	277.0	20.49	719	2,646	2,275	798	294
DF		29	2	80	72	.891	4.09	.89	85.0	290.0	2.16	76	258	240	84	29
DF		30	6	83	112	2.497	12.26	5.83	83.3	340.7	13.84	486	1,985	1,536	539	220
DF		31	1	89	92	.390	2.04	.78	93.7	390.0	2.08	73	304	231	81	34
DF		32	4	80	115	1.463	8.17	3.66	90.3	340.0	9.41	330	1,243	1,044	366	138
DF		35	1	83	108	.306	2.04	.92	87.3	316.7	2.28	80	290	253	89	32
DF		Totals	118	83	88	125.831	241.03	217.99	36.0	127.1	223.67	7,848	27,709	24,827	8,711	3,076
WH		13	1	83	76	1.558	1.44	3.12	13.1	40.0	1.31	41	125	145	45	14
WH		17	1	82	78	.911	1.44	1.82	24.8	85.0	1.45	45	155	160	50	17
WH		26	2	83	78	.779	2.87	1.56	59.4	190.0	2.96	92	296	328	103	33
WH		27	1	83	83	.361	1.44	.72	68.4	225.0	1.58	49	163	175	55	18
WH		Totals	5	83	78	3.609	7.18	7.22	31.6	102.2	7.29	228	738	809	253	82
NF		15	4	91	64	4.012	4.92	4.01	28.4	90.0	2.73	114	361	303	126	40
NF		40	1	91	110	.141	1.23	.28	184.5	960.0	1.25	52	271	139	58	30
NF		Totals	5	91	66	4.153	6.15	4.29	38.6	147.2	3.98	166	632	442	184	70
RA		15	2	75	58	3.009	3.69	3.01	31.5	60.0	2.60	95	181	289	105	20
RA		16	1	77	58	1.322	1.85	1.32	36.9	70.0	1.34	49	93	149	54	10
RA		18	2	75	70	2.089	3.69	3.13	34.6	76.7	2.99	109	240	331	121	27
RA		Totals	5	75	62	6.420	9.23	7.47	33.8	68.8	6.93	252	513	769	280	57
OC		13	1	86	58	1.113	1.03									
OC		15	1	86	78	.836	1.03									
OC		Totals	2	86	67	1.948	2.05									
Totals			135	83	85	141.962	265.64	236.97	35.8	124.9	241.87	8494	29,592	26,847	9,428	3,285

"STEWARDSHIP IN FORESTRY"

Standard Grade South

Volume Summary

Unit 1-Modified Clearcut				
		108 acres		
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	26.18	2828	1%	2800
Hemlock		0	1%	0
Spruce		0	1%	0
Noble Fir		0	1%	0
Alder	0.40	43	2%	42
TOTAL	26.58	2871.0		2842

Unit 2-Modified Clearcut				
		102 acres		
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	17.54	1789	1%	1771
Hemlock	1.29	131	1%	130
Spruce		0	1%	0
Noble Fir	2.83	289	1%	286
Alder	1.02	104	2%	102
TOTAL	22.68	2313		2289

Unit 3- Modified Clearcut				
		111 acres		
	Cruised Net	Cruised Net	Hidden	Net Sale
SPECIES	MBF/ Acre	MBF	D&B	MBF
Douglas-fir	27.71	3076	1%	3045
Hemlock	0.74	82	1%	81
Spruce		0	1%	0
Noble Fir	0.63	70	1%	69
Alder	0.51	57	2%	56
TOTAL	29.59	3285		3251

"STEWARDSHIP IN FORESTRY"

Standard Grade South

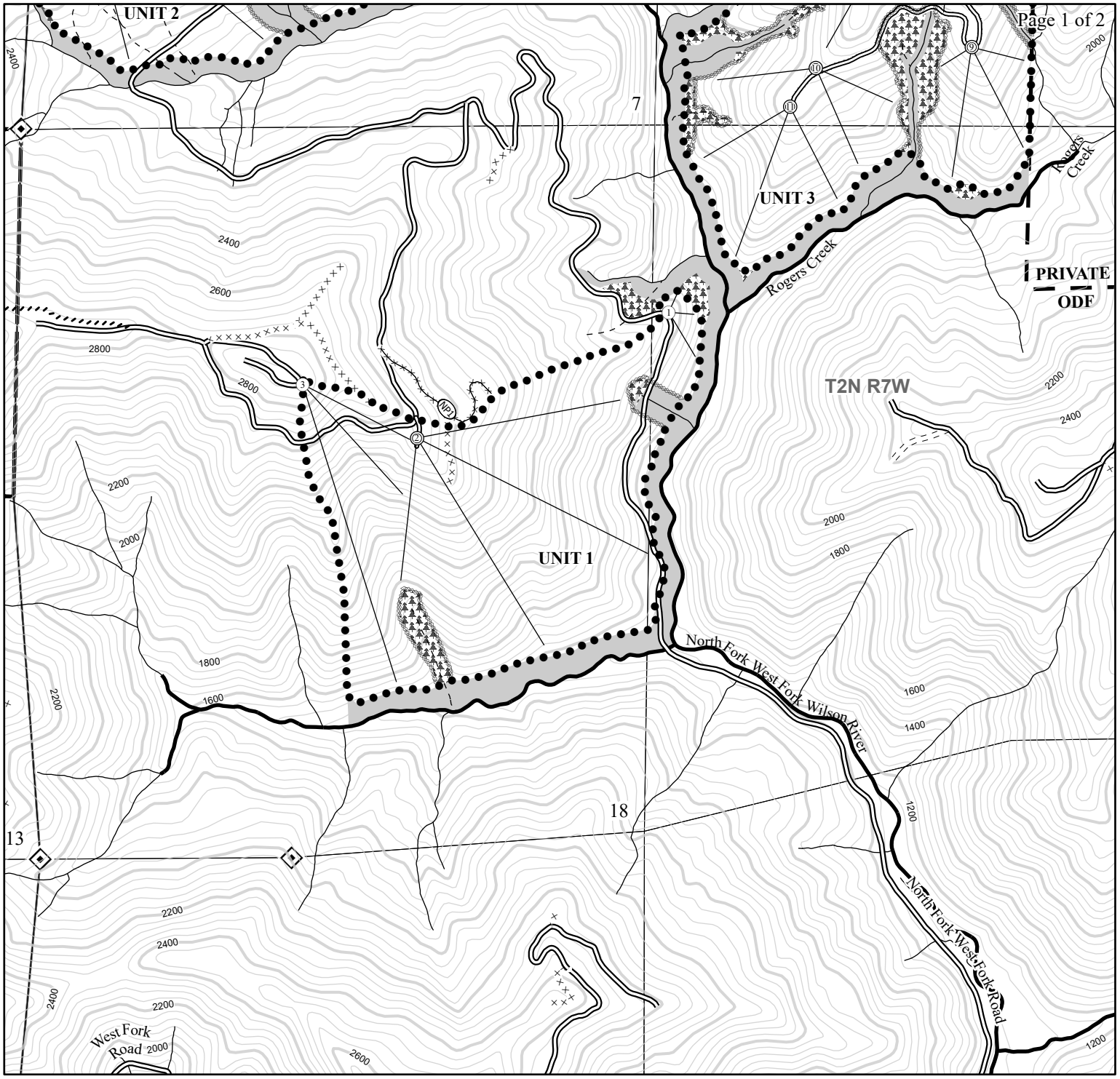
Volume Summary

"STEWARDSHIP IN FORESTRY"

Standard Grade South

Volume Summary

TOTAL SALE VOLUME	321	acres
SPECIES	Cruised Net (MBF)	Net Sale (MBF)
Douglas-fir	7693	7617
Hemlock	213	210
Spruce	0	0
Noble Fir	359	355
Red Alder	204	200
TOTAL	8469	8382



- Landing To Be Constructed
- Landing Existing
- Cable Logging
- Timber Sale Boundary
- Riparian Boundary
- Riparian Buffer
- Green Tree Retention
- Type-F Stream
- Type-N Perennial Stream
- Type-N Seasonal Stream
- Surfaced Road
- Unsurfaced Road
- Blocked Road
- Non-Project Construction
- Recreation Trail
- 200' Contour
- 40' Contour
- Property Line
- Sections
- Corners

N

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	108	108
UNIT 2	24	78	102
UNIT 3	0	111	111
TOTAL	26	295	321

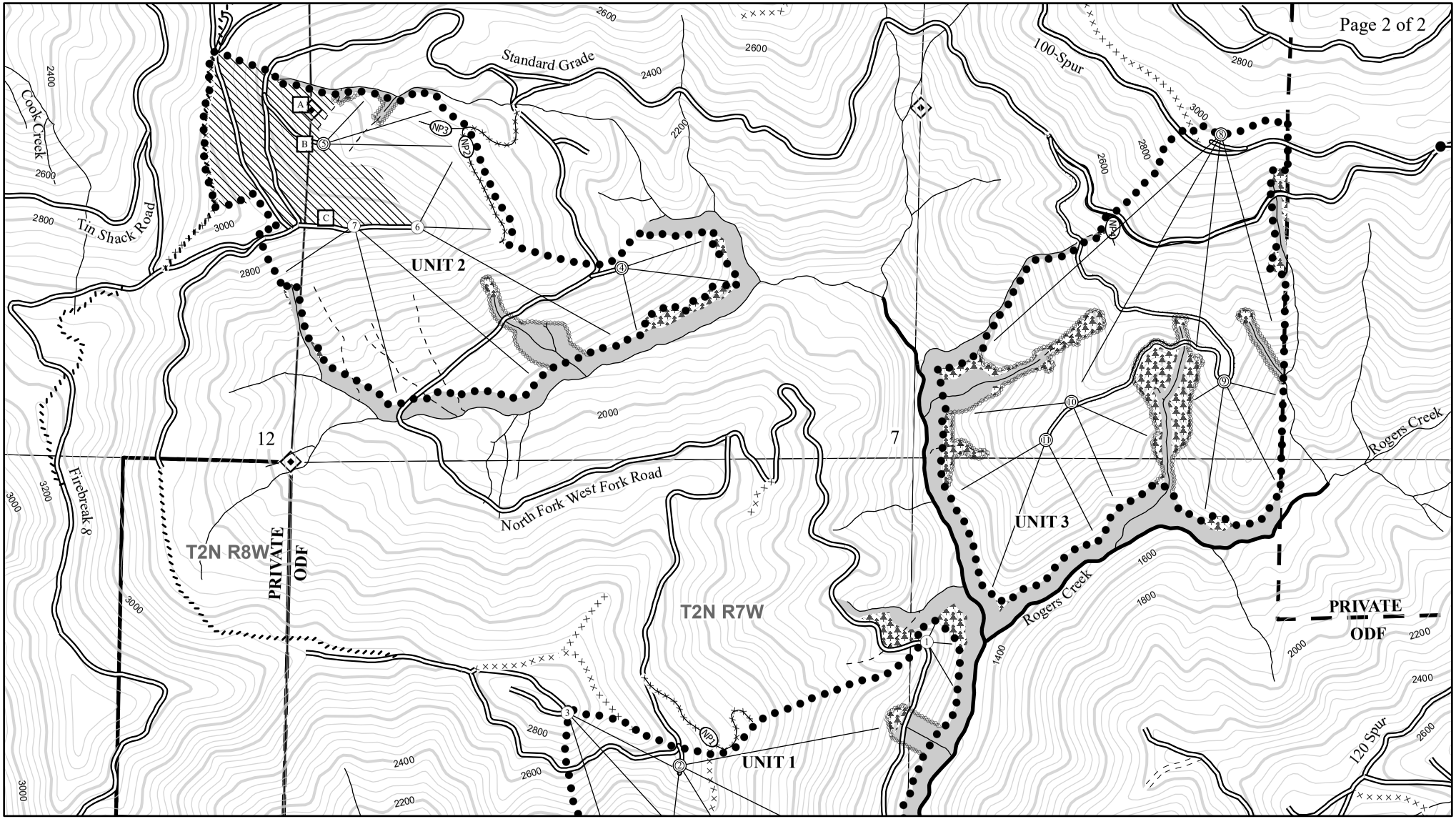
LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2026-W01148-01
STANDARD GRADE SOUTH
SECTION 12 of T2N R8W, SECTIONS 7, 8, 17, 18 of T2N R7W W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
June 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

0 1,000 2,000 Feet



- Ground
- Landing To Be Constructed
- Landing Existing
- Cable Logging
- Ground Based
- Timber Sale Boundary
- Riparian Boundary
- Riparian Buffer
- Green Tree Retention
- Type-F Stream
- Type-N Perennial Stream
- Type-N Seasonal Stream
- Surfaced Road
- Unsurfaced Road
- Blocked Road
- Recreation Trail
- Non-Project Construction
- 200' Contour
- 40' Contour
- Property Line
- Sections
- Corners
- Gates

LOGGING PLAN

FOR TIMBER SALE CONTRACT TL-341-2026-W01148-01
STANDARD GRADE SOUTH
SECTION 12 of T2N R8W, SECTIONS 7, 8, 17, 18 of T2N R7W W.M.
TILLAMOOK COUNTY, OREGON

Tillamook District GIS
June 2025
This product is for informational use and may not be suitable for legal, engineering, or surveying purposes.

N

NET ACRES

	GROUND	CABLE	TOTAL
UNIT 1	0	108	108
UNIT 2	24	78	102
UNIT 3	0	111	111
TOTAL	26	295	321

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

0 1,000 2,000 Feet