



PROSPECTUS



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Springfield Interagency Office, Northwest Oregon District
3106 Pierce Parkway, Suite E, Springfield, Oregon 97477
<http://www.blm.gov>

SBA Set-Aside Sale

April 26, 2023

Parcel No. 1
Contract No. ORN05-TS23-552
Upper Willamette Field Office

Bonanza North*
*SBA Set-Aside Sale

TIMBER SALE NOTICE

NOTICE IS HEREBY GIVEN that the Bureau of Land Management will offer for sale timber as described herein for oral auction, pursuant to Instructions to Bidders, as stated on Form No. 5440-9, attached. Written and oral bids will be received by the District Manager, or their representative, at the **NORTHWEST OREGON DISTRICT'S SPRINGFIELD INTERAGENCY OFFICE, 3106 PIERCE PARKWAY, SPRINGFIELD, OREGON**. The timber sale will commence at 10:00 a.m. on Thursday, **May 25, 2023**.

THIS TIMBER SALE NOTICE does not constitute the decision document for purposes of appeal of a forest management decision. Consistent with 43 CFR Subpart 5003.2(b), the date the BLM posts the forest management decision on the BLM's ePlanning website establishes the effective date of the decision for purposes of an administrative appeal. Website Address: <https://www.blm.gov/or/resources/forests/index.php>.

A WRITTEN BID on Form 5440-9 at not less than the appraised price on a unit basis per species and the required minimum bid deposit shall be required to participate in oral bidding for each tract.

FOR SBA SET-ASIDE TRACTS, the bidder must not have been determined by the Small Business Administration to be ineligible for preferential award for set-aside sales and must accompany the bid deposit with a self-certification statement that the bidder is qualified as a small business concern as defined by the Small Business Administration in its regulations, Title 13, Chapter I, Part 121 (Revision 7) as amended, of the Code of Federal Regulations. The Form 5430-1 Self Certification Statement is attached hereto. The successful bidder will be required to sign SBA Form 723 "Small Business Certification Required on All Preferential Sales of Set-Aside Timber" at the time the timber sale contract is signed. Section 2(a) of Form 723 requires that successful bidders on SBA set-aside tracts must comply with delivery requirements pertaining to timber volume. No more than 30 percent of the timber volume from a set-aside sale may be delivered for manufacturing to a business that is not a small business, as defined by the SBA (13 CFR 121.507 (a)). A copy of SBA form 723 is attached.

THE SUCCESSFUL BIDDER, as a condition of award, will be required to complete and/or sign the following forms:

1. Form 5430-11, a certification that the bid was arrived at by the bidder or offerer independently, and was tendered without collusion with any other bidder or offerer.
2. Form 5450-17, Export Determination.

PRE-AWARD QUALIFICATIONS. The high bidder may be required to furnish information to determine the ability to perform the obligations of the contract. If the high bidder is determined not qualified, not responsible or refuses to respond within 15 days of a request for information pertaining to qualifications, the contract may be offered and awarded for the amount of the high bid to the highest of the bidders who is qualified, responsible, and willing to accept the contract.

A PERFORMANCE BOND in an amount not less than 20 percent of the total purchase price will be required for all contracts of \$2,500 or more, but the amount of the bond shall not be in excess of \$500,000, except when the Purchaser opts to increase the minimum bond as provided in 43 CFR 5451.2. A minimum performance bond of not less than \$500 will be required for all installment contracts less than \$2,500.

INSTALLMENT PAYMENTS may be authorized for sales of \$500 or more. Required installments will be determined by BLM. For sales under \$500,000, installments will not be less than 10% of the total purchase price. For sales of \$500,000 or more, installment payments shall be \$50,000.

LOG EXPORT AND SUBSTITUTION. All timber sales, including timber from Federal rights-of-ways, shall be subject to the restrictions relating to the export and substitution of unprocessed timber from the United States in accordance with P.L. 94-165 and 43 CFR 5400 and 5424, as amended.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS. Excepting Port-Orford-cedar, all timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber.

SPECIAL PROVISIONS. A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), or; (2) Comply with a stay or remedy issued by the Interior Board of Land Appeals or a court order, or; (3) Protect species which were identified for protection in accordance with management direction established in the ROD and RMP.

ADDITIONAL INFORMATION concerning each timber sale tract described herein is available at the Springfield Interagency Office. A copy of the timber sale contract is also available for inspection at the Springfield Interagency Office. This prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Northwest Oregon District's Springfield Interagency Office at (541) 683-6776.

THE VOLUMES LISTED herein are estimates only, based on 16-foot taper breaks, which must be taken into consideration if comparisons are made with volume predictions based on other standards. The volumes based on 32-foot taper breaks are shown for comparison purposes. No sale shall be made for less than the total purchase price, without regard to the amount bid per unit, even though quantity of timber actually cut or removed or designated for taking is more or less than the estimated volume or quantity so listed.

AN ENVIRONMENTAL ASSESSMENT was prepared for this sale, and a Finding of No Significant Impact has been documented. These documents are available for inspection as background for this sale at the Northwest Oregon District's Springfield Interagency Office.

ACCESS to a sale may be through a locked gate (see individual sale information). Prospective bidders may obtain a key from the Northwest Oregon District's Springfield Interagency Office. Any other persons interested in visiting the timber sale site should first contact this office at (541) 683-6600.

Attachments:

- Form 5440-9
- Form 5430-11
- Form 5450-17
- Form 5450-22
- Form 5430-1
- SBA Form 723

NORTHWEST OREGON DISTRICT
UPPER WILLAMETTE FIELD OFFICE

**TIMBER SALE NOTICE
LUMP SUM
EUGENE MASTER UNIT
SBA SALE**

PARCEL NO.: 1
SALE DATE: May 25, 2025

Contract No.: ORN05-TS23-552, Bonanza North
Lane County, Oregon: O&C: Oral Auction

Bid Deposit Required: \$ 98,700.00

All timber designated for cutting on SE1/4SW1/4, W1/2SE1/4, Sec. 17, SE1/4NE1/4, SW1/4NW1/4, NW1/4SW1/4, S1/2SW1/4, SE1/4, Sec. 21, N1/2NW1/4, Sec. 27, NE1/4, Sec. 29, T. 16 S., R 1 W., Will. Mer.

Estimated Volume 32' Log (MBF)	Species	Estimated Volume 16' Log (MBF)	Appraised Price Per MBF	Estimated Volume Times Approx. Price
7,580	Douglas-fir	8,936	\$104.50	\$933,812.00
855	Western hemlock	1,042	\$40.10	\$41,784.20
25	Bigleaf maple	35	\$27.30	\$955.50
28	Western redcedar	33	\$239.10	\$7,890.30
25	Incense-cedar	30	\$54.20	\$1,626.00
2	Red alder	3	\$30.40	\$91.20
8,515	Totals	10,079		\$986,159.20

APPRAISED PRICES are calculated by determining market value through the analytical appraisal method. The minimum bid increment will be \$0.10 per MBF or multiples thereof.

LOG EXPORT RESTRICTIONS: All timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber.

NOTE: The volume for this timber sale has been calculated using 16 foot eastside Scribner rules, and the 32 foot log volumes are estimates derived from the 16 foot volumes.

CRUISE INFORMATION: The timber Volumes for Douglas-fir, western hemlock, western redcedar, and incense-cedar in both the Partial Harvest Area and Regeneration Harvest Areas were based on a variable plot cruise for estimating board foot volume. Plots were measured using a 40 basal area factor for a total of 243 plots. The timber volumes for Douglas-fir in the right-of-ways were based on a 3P cruise for estimating board foot volume. Red alder and bigleaf maple in all Regeneration Harvest Areas and right-of-way areas were based on a 100% cruise for estimating board foot volume. Western hemlock and incense-cedar in all right-of-way areas were based on a 100% cruise for estimating board foot volume. A map showing the location of the plots and sample trees is available at the Springfield Interagency Office.

With respect to merchantable Douglas fir; the average tree is 17.0" DBHOB; the average log contains 82 bd. ft.; the total gross merchantable volume is approximately 9,338 MBF; and 95% recovery is expected.

CUTTING AREA: Approximately 228 acres shall be regeneration harvested, 8 acres partially harvested, and approximately 3.3 acres of right-of-way shall be cleared.

ACCESS: Access to the sale is provided by:

1. A public road;
2. BLM existing roads;
3. BLM roads to be constructed;
4. Roads covered by Right-of-Way and Road Use Agreement E-662 between Weyerhaeuser Timber Holdings, Inc. and the United States. In the construction, renovation, use, and maintenance of private roads, and in the use of tailholds and guybacks, the Purchaser shall enter into a license agreement with Weyerhaeuser Timber Holdings, Inc. The license agreement shall be delivered to Weyerhaeuser Timber Holdings, Inc. for execution at least 15 days prior to any use of company roads. See the Prospectus for full terms and conditions of use.
5. Roads covered by Right-of-Way and Road Use Agreement E-1049 between Wilkins Ranch, LLC and the United States. In the construction, use, and maintenance of private roads, and in the use of tailholds and guybacks the Purchaser shall enter into a license agreement with Wilkins Ranch, LLC. The license agreement shall be delivered to Wilkins Ranch, LLC for execution at least 15 days prior to any use of company roads. See the Prospectus for full terms and conditions of use.

ROAD MAINTENANCE: The Purchaser shall pay to the BLM a maintenance fee of \$7,818.80 and a rockwear fee of \$6,645.99. The Purchaser shall pay a use fee of \$26,697.00 and a rockwear fee of \$1,527.78 to Weyerhaeuser Timber Holdings, Inc. See the Exhibit D map for specifications of road maintenance responsibility. Only the map page of the Exhibit D is included in the Prospectus. Refer to the contract file for the full Exhibit D.

In addition to the quantities shown below, 450 cubic yards (truck measure) of maintenance rock (150 cubic yards of 3" minus and 300 cubic yards of 1-1/2" minus) is required. Additional road reinforcement (rocking) may be required for wet weather haul and will be at the Purchaser's expense.

ROAD CONSTRUCTION:

Spurs 17B, 17C, and 21C, and Road Nos. 16-1-21.2 Ext., 16-1-21.7 Ext., 16-1-21.8, and 16-1-28.3.

Length: 9+32 Stations / 39+07 Stations

Class: SN-14 / SN-16

Special Requirements: Operations limited to periods of dry weather. Native surfaced spurs and roads shall be waterbarred and left in a weather proof condition prior to the onset of wet weather each year of the contract. Installation of stream crossing culverts will be limited to the ODFW in-stream work window, June 1 – October 31.

ROAD RENOVATION:

Road Nos. 15-1-34.3, 16-1-3, 16-1-5.3, 16-1-16, 16-1-17, 16-1-20, 16-1-20.1, 16-1-20.2, 16-1-21, 16-1-21.7, 16-1-21.7 Ext., 16-1-22, and 16-1-22.1.

568.46 Stations, 8.91 miles

Class: SN-16

Special Requirements: Native surfaced spurs and roads shall be waterbarred and left in a weather proof condition prior to the onset of wet weather each year of the contract. Installation of stream crossing culverts will be limited to the ODFW in-stream work window, June 1 – October 31.

ROAD IMPROVEMENT:

Road Nos. 16-1-21.1, 16-1-21.2, and 16-1-21.4

61+28 Stations

Class: SN-16

Special Requirements: Native surfaced spurs and roads shall be waterbarred and left in a weather proof condition prior to the onset of wet weather each year of the contract. Replacement and installation of stream crossing culverts shall be limited to the ODFW instream work window, June 1 – October 31.

Rock Source: Bunker Hill Quarry (T. 15 S., R. 1 W., Section 34, W.M.)

Estimated Rock Quantities (CY truck measure)

<u>3/4" Minus</u>	<u>1-1/2" Minus</u>	<u>3" Minus</u>	<u>6" Minus</u>	<u>Splash Pad</u>
1,648	1,721	6,589	5,044	178

Culverts:

<u>Diameter:</u>	<u>Length:</u>	<u>Number:</u>
18"	1,050'	30
24"	474'	13
36"	85'	2

Downspouts:

<u>Diameter:</u>	<u>Length:</u>	<u>Number:</u>
24"	50'	2
36"	20'	1

Total Estimated Exhibit C Road Costs (construction, renovation and improvement): \$646,891.62

ROAD DECOMMISSIONING:

Spurs 17B, 17C, and 21C, and Road No. 16-1-21.7 Ext.

Barriers: 2

Estimated Cost of Decommissioning: \$2,078.56

Special Requirements: Operations limited to periods of dry weather.

DURATION OF CONTRACT: Duration of the contract will be 36 months for cutting and removal of timber.

SPECIAL PROVISIONS: The contract will contain special provisions regarding road construction, road renovation, road improvement, road maintenance, road decommissioning, logging methods, prevention of erosion, logging residue reduction, snag creation, and submission of a written logging plan specifying landing locations and logging schedule.

Under Sec. 26 of the timber sale contract, ground-based logging and mechanical felling will be prohibited during periods of excessive soil moisture. This will normally limit ground-based logging and mechanized felling from June 1 to October 15.

OTHER SPECIAL REQUIREMENTS:

1. The Purchaser shall be required to clean logging, road, decommissioning, and slash piling equipment prior to entry on BLM lands.
2. Roads in Section 29 shall not be used for Helicopter operations due to conflicting activities with the Bonanza South Timber Sale.
3. The Purchaser shall provide a map of requested skyline road and skid trail locations a minimum of seven (7) working days in advance of cutting to obtain approval of the locations from the Authorized Officer.
4. Haul on all natural surface roads shall be limited to the dry season (typically June 1-Oct. 31).
5. The Purchaser shall be required to cut and process non-merchantable trees in the Regeneration Harvest Areas.
6. The Purchaser shall be required to cut and leave all white painted trees in Right-of Way (Clearing) of Spur 21C, and Road Nos. 16-1-21.2 and 16-1-21.2 Ext.
7. No felling, yarding, or loading is permitted in or through the Reserve Area shown on Exhibit A, except in the Special Operating Area.
8. Upon completion of yarding, the Purchaser shall create two hundred fifty-eight (258) snags by topping and girdling.
9. The Purchaser shall perform logging residue reduction and site preparation work, to include hand piling, machine piling, piling at landings and along roadsides, covering, slashing, and pile burning.
10. In the Harvest Areas, whole tree yarding or yarding with tops attached will be required, except in Helicopter Yarding Area.
11. The Purchaser shall be required to spread BLM-provided seed and mulch at culverts and designated areas.
12. Purchaser shall purchase from Weyerhaeuser Timber Holdings, Inc. timber from new road construction.
13. When work is occurring within 300 feet of BPA Transmission Right-of-Way, the Purchaser shall comply with BPA conditions.
14. The Purchaser shall be required to file a Notification of Operations with the Oregon Department of Forestry for all harvest operations, snag creation, road construction, renovation, and improvement on federal and private lands.
15. Quarry operations, which include drilling, blasting, crushing, loading, and hauling, shall be completed at Bunker Hill Quarry in T. 15 S., R. 1 W., Section 34, by December 31, 2023. This restriction may be negotiated with other Quarry users, subject to approval by the Authorized Officer and may result in a contract modification.

NARRATIVE DESCRIPTION OF HOW TO GET TO SALE AREA:

This sale is accessed through locked gates over private land. Prospective bidders may obtain a key from the Springfield Interagency Office and proceed to the sale area. Any other persons interested in visiting the timber sale should first contact Brian Bickford at (541) 683-6164.

To Harvest Area No. 1: From Springfield, proceed on Marcola Road for approximately 11 miles to the junction of Wendling Road. Proceed on Wendling Road for approximately 0.4 miles to the junction of Cartwright Creek Road. Proceed on Cartwright Creek Road for approximately 0.8 miles to Harvest Area No. 1.

To Harvest Area No. 4: From Harvest Area No.1, continue on Cartwright Creek Road for approximately 0.2 miles to the junction of Road No. 16-1-20. Continue south on Road No. 16-1-20 for approximately 0.6 miles to the junction of Road No. 16-1-20.1. Continue on Road No. 16-1-20.1 for approximately 0.4 miles to the junction of Road No. 16-1-20.2. Continue on Road No. 16-1-20.2 for approximately 0.3 miles to the end and walk in.

To Harvest Area No. 2: From Harvest Area No. 4, return to junction of Road Nos. 16-1-20.1 and 16-1-20.2. Continue east on Road No. 16-1-20.1 for approximately 0.2 miles to junction of Road Nos. 16-1-20.1 and 16-1-21.

To Harvest Area No. 3: From Harvest Area No. 2 junction of Road Nos. 16-1-20.1 and 16-1-21, continue east on Road No. 16-1-21 for approximately 1.5 miles.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Land Management**

BONANZA NORTH Timber Sale Contract No. ORN05-TS23-552
T. 16 S., R. 1 W., Sec. 17, 21, 27, 29, Will. Mer., Northwest Oregon District



R.1 W.

This sale is accessed through locked gates over private land. Prospective bidders may obtain a key from the Eugene District Office and proceed to the sale area. Any other persons interested in visiting the timber sale should first contact Brian Bickford at 541-683-6164.

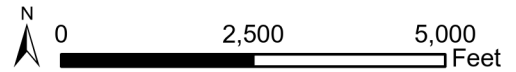
To Harvest Area #1: From Springfield, proceed on Marcola Road for approximately 11 miles to the junction of Wendling Road. Proceed on Wendling Road for approximately 0.4 miles to the junction of Cartwright Creek Road. Proceed on Cartwright Creek Road for approximately 0.8 miles to Harvest Area No. 1.

To Harvest Area #4: From Harvest Area #1, continue on Cartwright Creek Road for approximately 0.2 miles to the junction of Road No. 16-1-20. Continue south on Road No. 16-1-20 for approximately 0.6 miles to the junction of Road No. 16-1-20.1. Continue on Road No. 16-1-20.1 for approximately 0.4 miles to the junction of Road No. 16-1-20.2. Continue on Road No. 16-1-20.2 for approximately 0.3 miles to the end and walk in.

To Harvest Area #2: From Harvest Area #4, return to Road junction 16-1-20.1/16-1-20.2. Continue east on Road No. 16-1-20.1 for approximately 0.2 miles to Road junction 16-1-20.1/16-1-21.

To Harvest Area #3: From Harvest Area #2 Road junction 16-1-20.1/16-1-21, continue east on Road No. 16-1-21 for approximately 1.5 miles.

- Harvest Area
- BLM Administered Lands
- Travel Route
- New Construction
- Gates
- Existing Roads



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Oregon State Office
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Portland, Oregon 97208-2965

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Seasonal Restriction Matrix



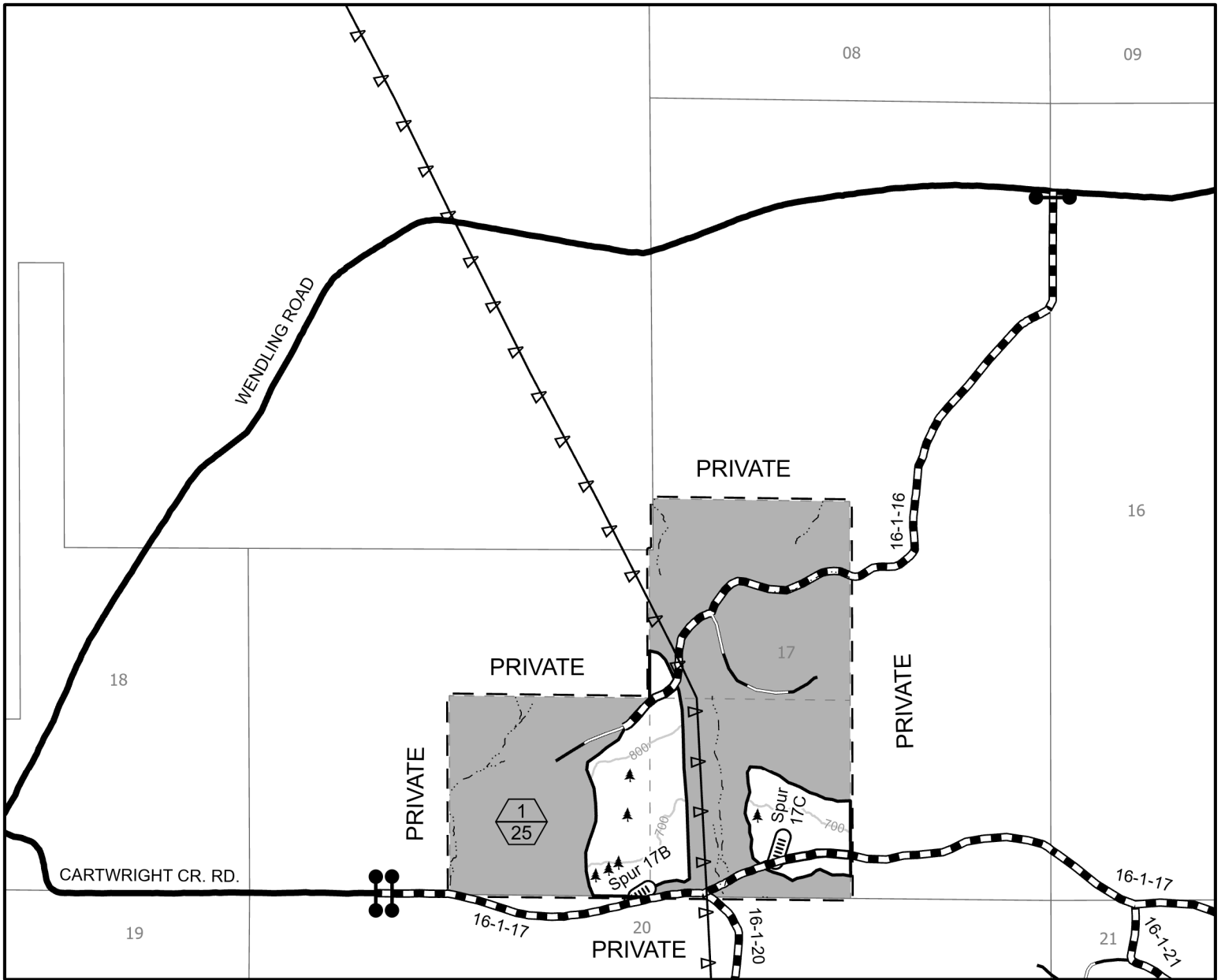
Restricted Times

Restricted Activity:	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15	1 15
Road Construction, Road Renovation, Dry Season Haul, and Road Decommissioning. <ul style="list-style-type: none"> October 31 – June 1, both days inclusive. May vary due to weather conditions; soil moisture still overrides weather conditions. 	X	X	X	X	X	X	X				X	X
Mechanized Felling and Ground based yarding. <ul style="list-style-type: none"> October 15 – June 1, both days inclusive. May vary due to weather conditions; soil moisture still overrides weather conditions. 	X	X	X	X	X	X				X	X	X
Stream Culvert Replacement, Installation, and Removal. <ul style="list-style-type: none"> October 31 to June 1, both days inclusive 	X	X	X	X	X	X				X	X	X

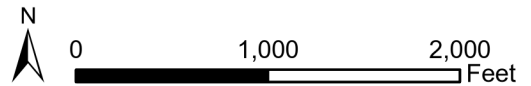
NOTE: This chart is for informational purposes only. Refer to Section 42 Special Provisions of the timber sale contract for exact date restrictions and specifications. Subject to transient winter snow, elevation ranges from 700-1600 feet.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Land Management**

BONANZA NORTH Timber Sale Contract No. ORN05-TS23-552
T. 16 S., R. 1 W., Sec. 17 Will. Mer., Northwest Oregon District



- | | |
|--------------------------------------------|--------------------------------|
| Contract Area | Construction - Natural Surface |
| Reserve Area | Improvement/Renovation |
| Boundary of Cutting Area - Posted, Painted | Right-of-Way (Clearing) |
| Regeneration Harvest Area | Gates |
| Approximate Location of Pink Painted Trees | Rocked Road |
| Unit Number (Top)/ Unit Acres (Bottom) | Paved Road |
| | Powerline Corridor |
| | Streams |



Totals for Sale	
Regeneration Harvest Area	228.0
Partial Harvest Area	8.0
Right-of-Way (Clearing)	3.3
Reserve Area	480.7
Contract Area	720.0

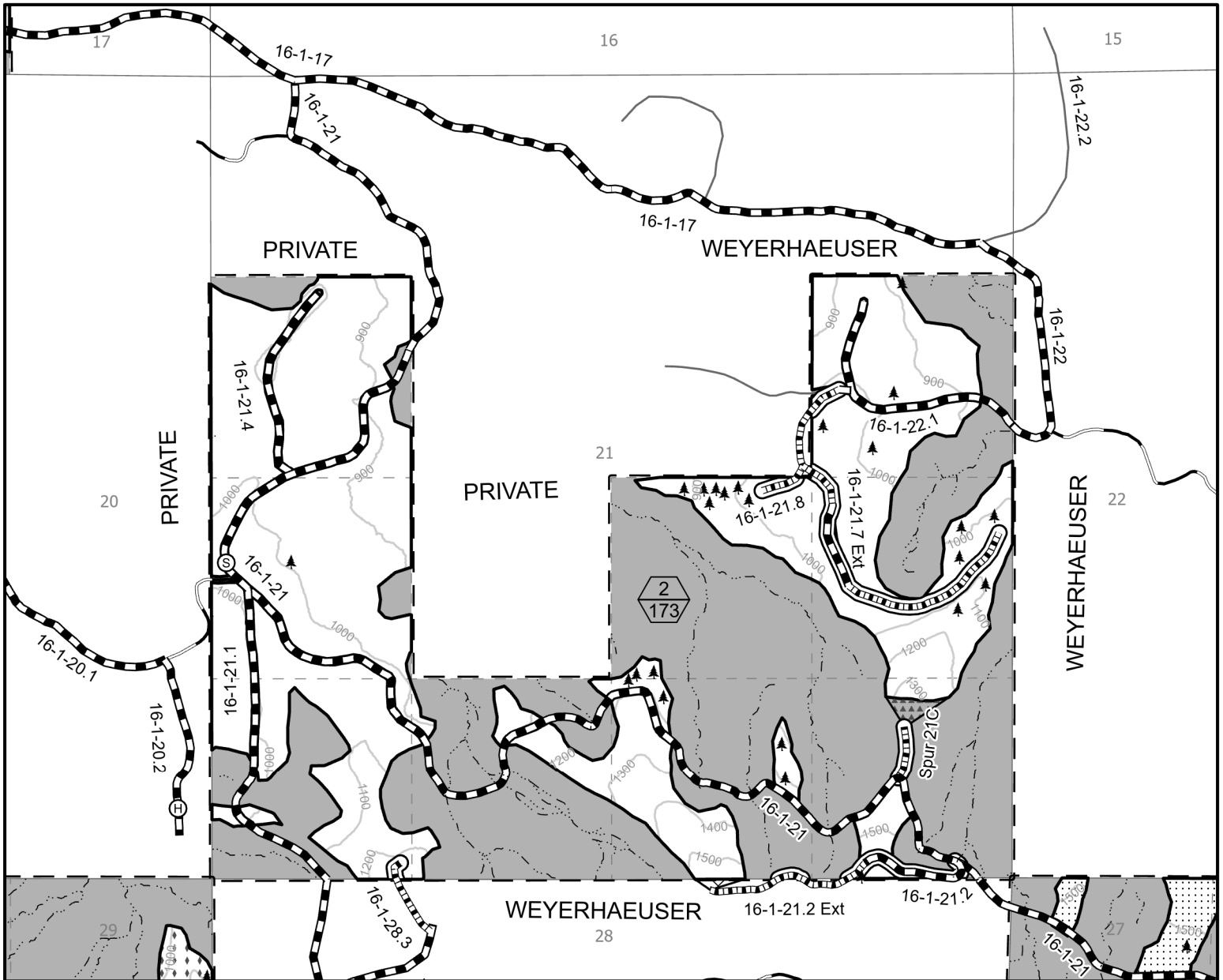
Totals for Section 17	
Regeneration Harvest Area	25.0
Right-of-Way (Clearing)	0.2
Reserve Area	94.8
Contract Area	120.0

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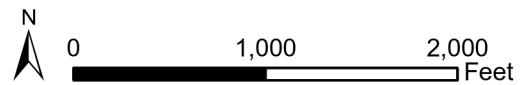
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**UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Land Management**

BONANZA NORTH Timber Sale Contract No. ORN05-TS23-552
T. 16 S., R. 1 W., Sec. 21 Will. Mer., Northwest Oregon District



- | | |
|--------------------------------------------|-----------------------------|
| Contract Area | Construction - Rock Surface |
| Reserve Area | Improvement/Renovation |
| Boundary of Cutting Area - Posted, Painted | Right-of-Way (Clearing) |
| Regeneration Harvest Area | Natural Surface Road |
| Special Operating Area | Rocked Road |
| Yarding Wedge | Streams |
| Approximate Location of Pink Painted Trees | Log Landing |
| Unit Number (Top)/ Unit Acres (Bottom) | Service Landing |

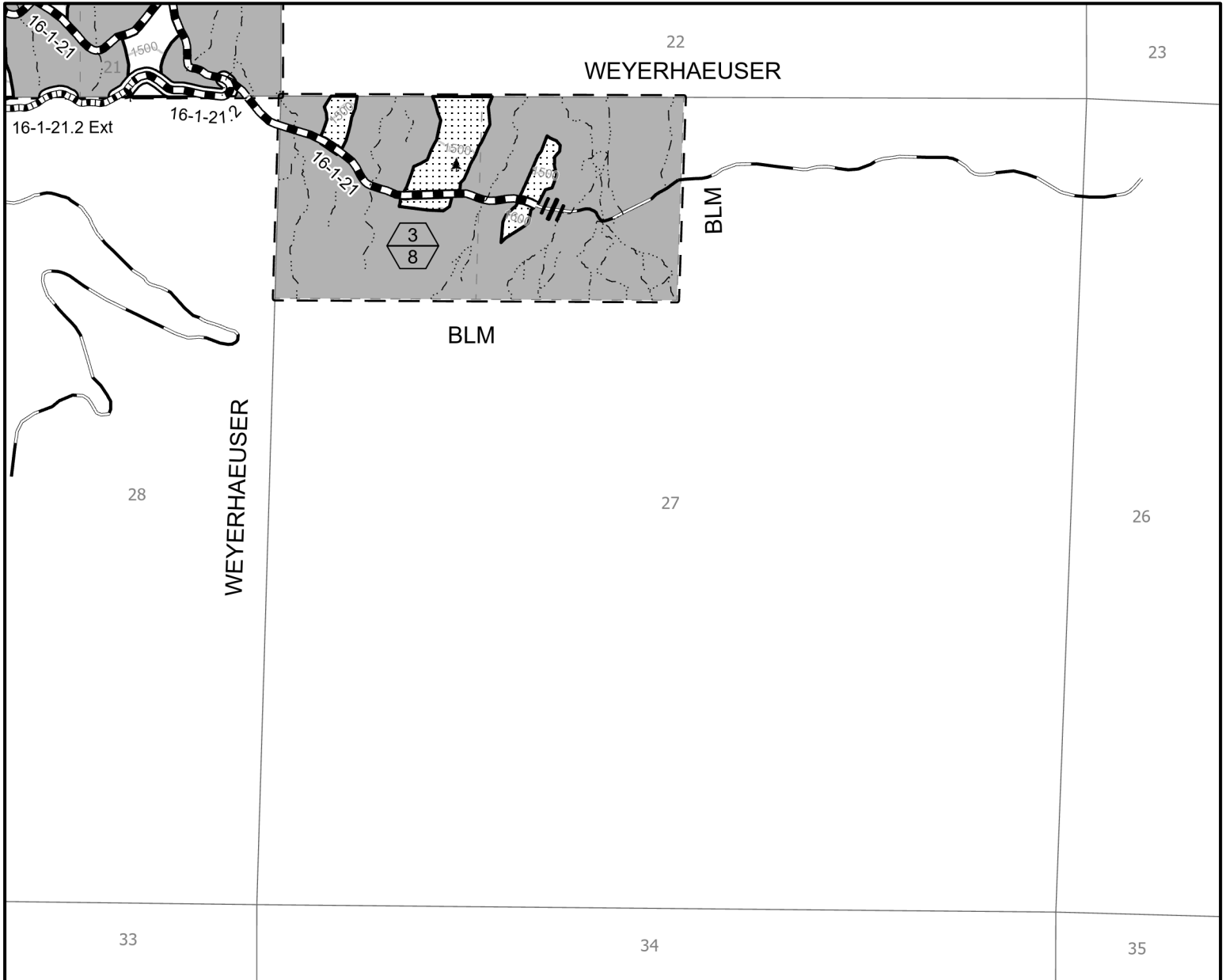












Totals for Section 21	
Regeneration Harvest Area	173.0
Right-of-Way (Clearing)	3.1
Reserve Area	183.9
Contract Area	360.0

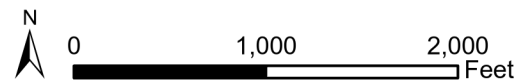
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BONANZA NORTH Timber Sale Contract No. ORN05-TS23-552
T. 16 S., R. 1 W., Sec. 27 Will. Mer., Northwest Oregon District



-  Contract Area
-  Reserve Area
-  Boundary of Cutting Area - Posted, Painted
-  Partial Harvest Area
-  Approximate Location of Pink Painted Trees
-  Unit Number (Top)/ Unit Acres (Bottom)
-  Improvement/Renovation
-  Rocky Road
-  Impassable
-  Streams



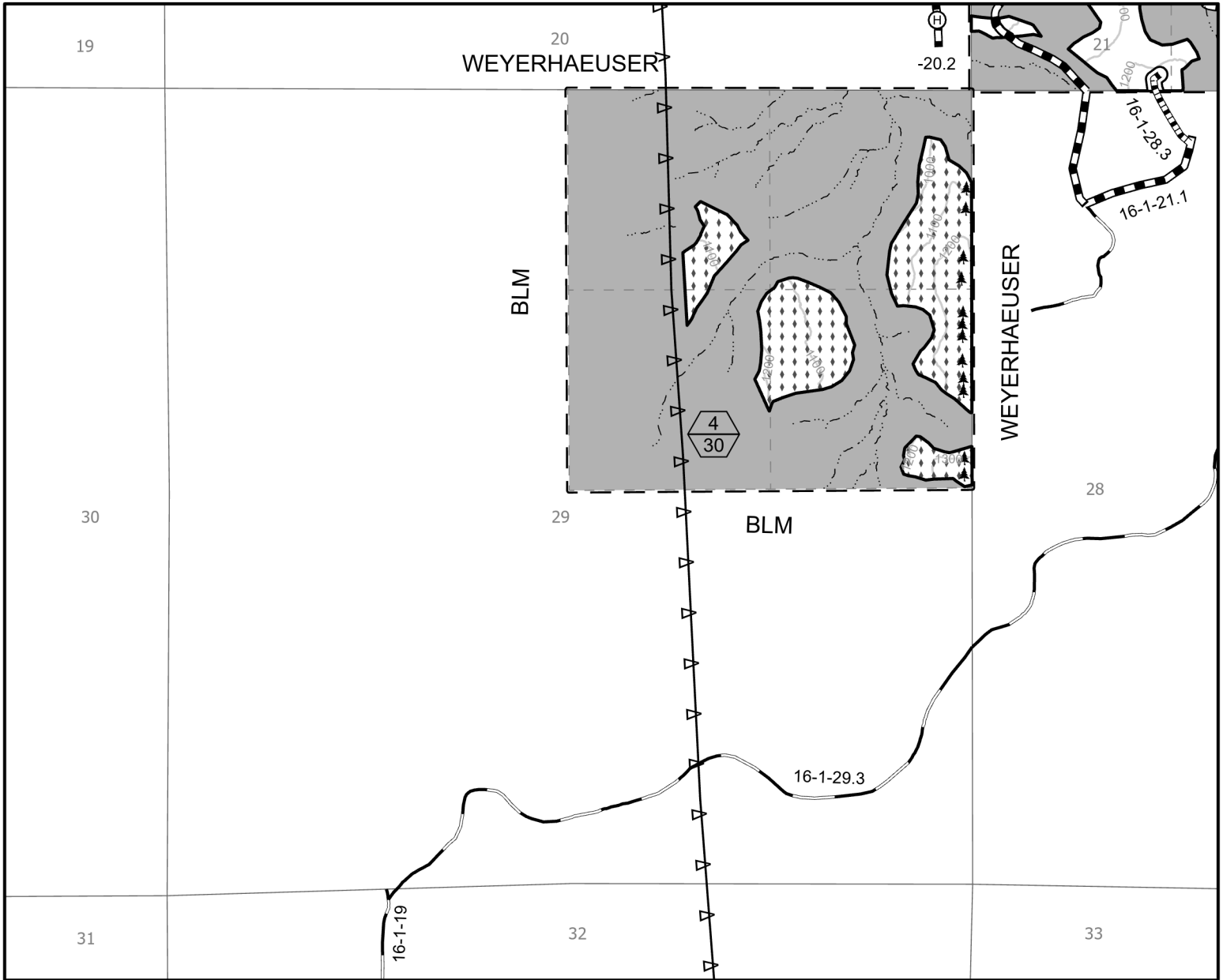
Totals for Section 27	
Partial Harvest Area	8
Reserve Area	72
Contract Area	80

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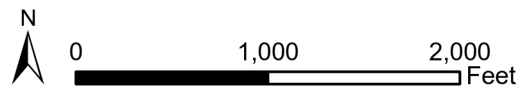
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BONANZA NORTH Timber Sale Contract No. ORN05-TS23-552
T. 16 S., R. 1 W., Sec. 29 Will. Mer., Northwest Oregon District



- | | |
|-----------------------------------------------|-----------------------------------------------|
| Contract Area | Improvement/Renovation |
| Reserve Area | Unit Number (Top)/
Unit Acres (Bottom) |
| Boundary of Cutting Area -
Posted, Painted | Approximate Location of
Pink Painted Trees |
| Regeneration Harvest Area | Rocked Road |
| Helicopter Yarding | Powerline Corridor |
| Log Landing | Streams |



Totals for Section 29	
Regeneration Harvest Area	30
Reserve Area	130
Contract Area	160

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Portland, Oregon 97208-2965

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Bonanza North

EXHIBIT B

LUMP SUM SALE

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A**.

SPECIES	ESTIMATED VOLUME OR QUANTITY <i>(Units Specified)</i>	PRICE PER UNIT	AMOUNT OF ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas-fir	8,936.0 MBF		
Western hemlock	1,042.0 MBF		
Bigleaf maple	35.0 MBF		
Western redcedar	33.0 MBF		
Incense-cedar	30.0 MBF		
Red alder	3.0 MBF		
TOTALS	10,079.0 MBF		

The apportionment of the total purchase price is as follows:

<u>Regen Harvest Area 1 - 25 Acres</u>	(43.9 MBF/Acre)
Douglas-fir	929.0 MBF
Western hemlock	157.0 MBF
Incense-cedar	6.0 MBF
Western redcedar	5.0 MBF
Total	1,097.0 MBF

<u>Regen Harvest Area 2 - 173 Acres</u>	(42.2 MBF/Acre)
Douglas-fir	6,629.0 MBF
Western hemlock	620.0 MBF
Bigleaf maple	18.0 MBF
Incense-cedar	16.0 MBF
Western redcedar	13.0 MBF
Red alder	3.0 MBF
Total	7,299.0 MBF

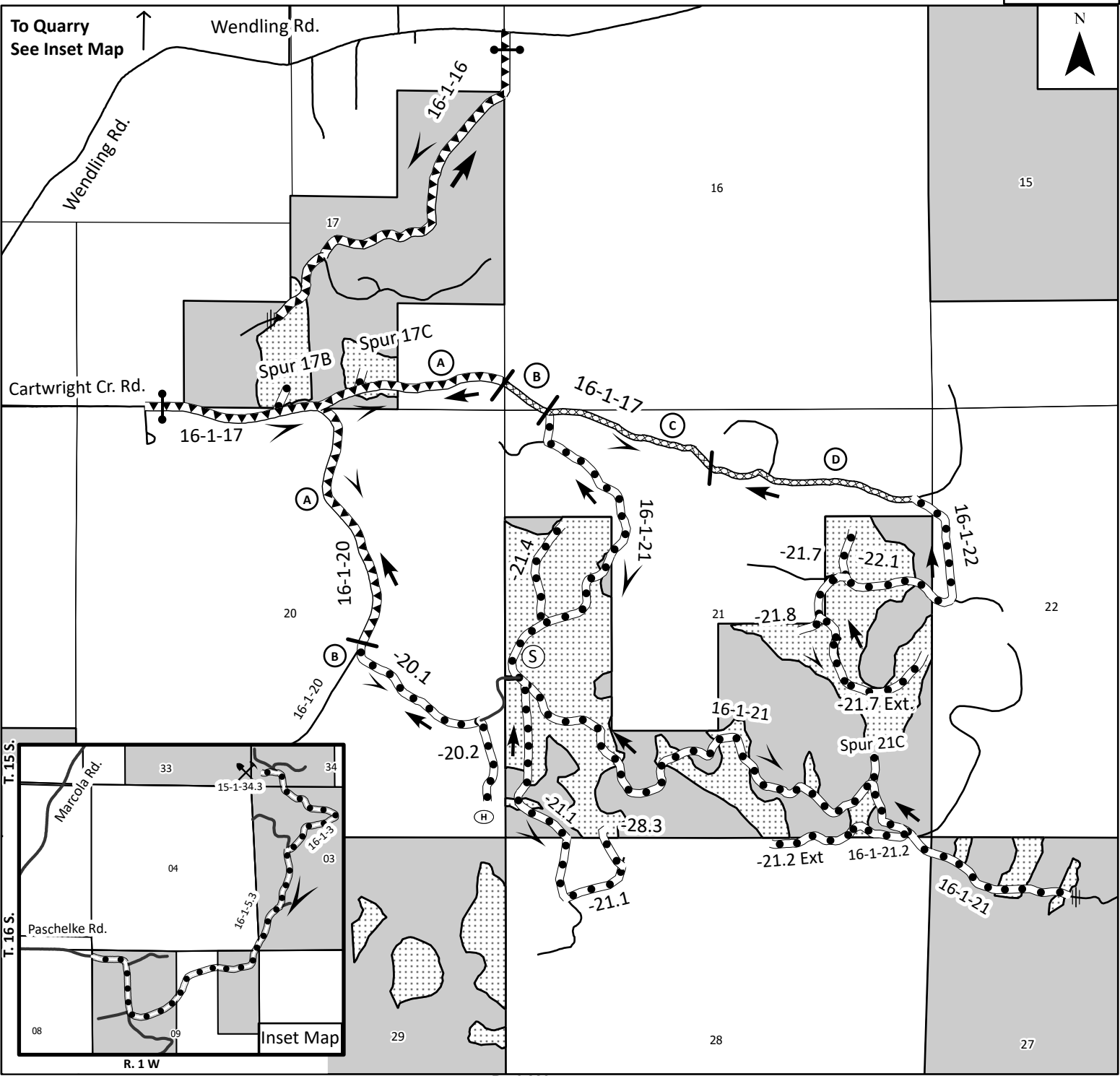
<u>Partial Harvest Area 3 - 8 Acres</u>	(15.8 MBF/Acre)
Western hemlock	66.0 MBF
Douglas-fir	51.0 MBF
Western redcedar	9.0 MBF
Total	126.0 MBF

<u>Regen Harvest Area 4 - 30 Acres</u>	(44.4 MBF/Acre)
Douglas-fir	1,114.0 MBF
Western hemlock	189.0 MBF
Bigleaf maple	17.0 MBF
Incense-cedar	7.0 MBF
Western redcedar	6.0 MBF
Total	1,333.0 MBF

<u>Right-of- Way Area 1 - 0.2 Acres</u>	(105.0 MBF/Acre)
Douglas-fir	20.0 MBF
Incense-cedar	1.0 MBF
Total	21.0 MBF

<u>Right-of-Way Area 2 - 3.1 Acres</u>	(65.5 MBF/Acre)
Douglas-fir	193.0 MBF
Western hemlock	10.0 MBF
Total	203.0 MBF

N



T. 16 S.

T. 15 S.

T. 16 S.

R. 1 W

R. 1 W

SALE NAME: BONANZA NORTH
CONTRACT NO.: ORN05-TS23-552

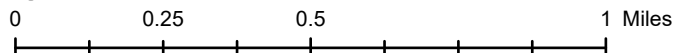
United States Department of the Interior
Bureau of Land Management
Northwest Oregon District, Upper Willamette Field Office

- Legend**
- Quarry
 - Helicopter Landing
 - Gate
 - Segment Break
 - Impassible
 - Harvest Unit
 - Segment
 - Service Landing
 - BLM Maintenance
 - Permittee Maintenance
 - Purchaser Maintenance
 - Existing
 - Bureau of Land Management
 - Timber Haul Route
 - Mineral Haul Route

Road Maintenance Map
 T.15 S., R.1 W., Section 34
 T.16 S., R.1 W., Sections 3, 4, 9, 16, 17, 20, 21, 22, 27, and 28
 Willamette Meridian, Lane County, Oregon



Designed By: M. Reller
 Drawn By: M. Reller
 Date: July 2022



SEC. 43 - Timber Reserved From Cutting and/or Removal

- (a) All timber on the Reserve Areas shown on Exhibit A, which is attached hereto and made a part hereof, and all yellow painted and posted trees which are on or mark the boundaries of the Reserve Areas. Exhibit A contains 4 sheets.
- (b) All trees marked with yellow paint above and below stump height in the Regeneration Harvest Areas and Partial Harvest Area shown on Exhibit A.
- (c) All trees marked with pink paint above and below stump height in the Approximate Location of Pink Painted Trees shown on Exhibit A. Pink painted trees felled for safety or operational reasons shall remain on site. Where necessary for safety or operational reasons, pink painted trees may be bucked into shorter lengths and/or moved within the unit as close to where felled as safely possible.
- (d) All trees marked with white paint above and below stump height in the Right-of-Way (Clearing) of Spur 21C and Road Nos. 16-1-21.2 and 16-1-21.2 Ext. where it passes through the Reserve Area as shown on Sheet 2 of Exhibit A. White painted trees shall be felled in the Reserve Areas. Where necessary for safety or operational reasons, white painted trees may be bucked into shorter lengths and/or moved within the Reserve Areas adjacent to the Right-of-Way (Clearing) to facilitate the use and maintenance of roads.
- (e) All existing decay class 1-2 down wood and snags greater than 20 inches in diameter at the large end and greater than 20 feet in length in the Regeneration Harvest Areas, Partial Harvest Area, and Special Operating Area shown on Exhibit A. Decay classes are illustrated on Exhibit I and Exhibit L, which are attached hereto and made a part hereof. Where necessary for safety or operational reasons, such down woody material and snags may be felled, and/or bucked into shorter lengths, and/or moved within the unit.
- (f) All existing decay class 3-5 down wood and snags in the Harvest Areas, and Special Operating Area shown on Exhibit A. Decay classes are illustrated on Exhibit I and Exhibit L. Where necessary for safety or operational reasons, such down woody material and snags may be felled, and/or bucked into shorter lengths, and/or moved within the unit.
- (g) In the Regeneration Harvest Areas, Partial Harvest Area, and Special Operating Area shown on Exhibit A, all oaks and pines which do not present a safety hazard, or where felling is not needed for operational activities, as determined by the Authorized Officer. All oaks and pines that are felled for safety and operational reasons shall remain on site. Where necessary for safety or operational reasons, oaks and pines may be bucked into shorter lengths and/or moved within the unit as close to where felled as safely possible.
- (h) In the Partial Harvest Area shown on Exhibit A, all Pacific yew and hardwood trees which do not present a safety hazard, or where removal is not needed for operational activities, as determined by the Authorized Officer. All Pacific yew and hardwood trees that are felled for safety and operational reason shall remain on site. Where necessary for safety or operational reasons, Pacific yew and hardwood trees may be bucked into shorter lengths and/or moved within the unit as close to where felled as safely possible.

SEC. 44 - Special Provisions

- (a) The Purchaser agrees not to sell and/or exchange more than 30 percent of the timber or log volume from this preferential sale to concerns that do not meet the Small Business Administration small business size standard (13 CFR 121).

The Purchaser understands that in addition to other penalties which may be imposed for violating the foregoing, the Purchaser may be declared ineligible to participate in future Federal timber sales that are set-aside for preferential bidding by small business qualified concerns for two semi-annual triggered periods succeeding the violation.

The Purchaser shall provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at any time during the contract period for cutting and removal specified in Section 4 of this contract as amended.

- (b) Logging
 - (1) Before beginning operations on the contract area for the first time or after a shutdown of 14 or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. This written notification must be received by the Authorized Officer no less than 14 days prior to the date the Purchaser plans to begin or resume operations.

The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of 10 or more days.

- (2) Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
- (3) When work is occurring within 300 feet of the BPA Transmission Right-of-Way shown on Exhibit A, the Purchaser shall comply with the following conditions:
 - (aa) Prior to the start of all cutting and yarding operations, the Purchaser shall meet with BPA representatives and the Authorized Officer.
 - (bb) Keep passage open to at least one vehicle width on all BPA access roads to allow for maintenance of powerline as determined by the Authorized Officer.
 - (cc) No log decking, storage of logs, storage and transportation of flammable materials, or fueling of vehicles shall occur within the BPA Transmission Right-of-Way.
 - (dd) No loading of logging trucks shall be allowed within the BPA Transmission Right-of-Way. All equipment including logging trucks shall not be loaded to a height greater than 14 feet above the road bed when traveling under the power lines.
- (4) No felling, yarding, or loading is permitted in or through the Reserve Area shown on Exhibit A, except:
 - (aa) When yarding through the Special Operating Area shown on Exhibit A. Only the minimum amount of trees that are needed for safety and operational activities may be cut. Trees felled for corridors within the Special Operating Areas shall remain on site, unless otherwise approved by the Authorized Officer. Where necessary for safety or operational reasons, corridor trees may be felled and bucked into shorter lengths and/or moved within the Reserve Area.
- (5) In the Regeneration Harvest Areas and Partial Harvest Area shown on Exhibit A, all trees designated for cutting shall be felled to the lead, whole tree yarded, or yarded with tops attached, except in the Helicopter Yarding Area or otherwise approved by the Authorized Officer. Trees shall be directionally felled away from Reserve Areas, and yellow painted trees, except when necessary for safety reasons.
- (6) In the Regeneration Harvest Areas shown on Exhibit A, all hardwoods except when reserved in Section 43(g) and more than six (6) inches in diameter shall be felled concurrently with all other trees designated for cutting. All tops and branches must be free of the central stem to the extent that it is within a maximum of twenty (20) inches of the ground at all points.
- (7) In the Regeneration Harvest Areas shown on Exhibit A, at all landings, all non-merchantable logs (including hardwoods) more than 8 inches in diameter at the large end and exceeding 8 feet in length shall be decked at a location designated by the Authorized Officer.
- (8) Haul on all natural surface roads shall be limited to the dry season (typically June 1 through October 31), as determined by the Authorized Officer.
- (9) Mechanized felling and ground based yarding shall occur typically between June 1 – October 15 or as approved by the Authorized Officer.
- (10) Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.
- (11) In the Helicopter Yarding Area shown on Exhibit A, yarding shall be done with a helicopter capable of suspending logs free and clear of the ground and tree tops enroute to the landing. All multiple log turns shall be vertically lifted from a small enough radius to result in minimal damage to the residual forest stand as determined by the Authorized Officer.

- (12) In the Regeneration Harvest Areas and Partial Harvest Area shown on Exhibit A, felling and yarding may be done with ground based equipment on slopes of 35% or less. Felling and yarding may be done with specialized ground based equipment on slopes up to 50%. The specialized ground based equipment shall be approved by the Authorized Officer prior to the start of mechanized felling and yarding operations. Only purpose-built carriers with boom-mounted felling heads may be approved. Purpose-built carriers may be of articulated, rubber-tired design, or the leveling track-mounted design.
- (13) In the Regeneration Harvest Areas, Partial Harvest Area, and Special Operating Area shown on Exhibit A, all slopes greater than 35% (or 50% if specialized ground based equipment is used as stated in Section 44(b)(12)) shall be yarded with a carriage equipped skyline system capable of laterally yarding at least 75 feet from the skyline road. The carriage shall be capable of being held in position on the skyline during lateral yarding. During yarding, the lead end of the logs shall be suspended clear of the ground. Intermediate supports and/or lift trees may be needed.
- (14) Before clearing any skid trail or skyline road necessary for yarding, the Purchaser shall:
- (aa) Space designated skid trails or skyline roads at a minimum of 150 feet apart unless approved by the Authorized Officer. Parallel settings are preferred if topography allows.
 - (bb) Mark the location of the skid trail or skyline road on the ground with fluorescent pink plastic flagging. Such skid trails or skyline roads shall be limited to the minimum width necessary for yarding of logs. The width of each skid road or skyline road shall not exceed 12 feet.
 - (cc) Place skid trails and skyline roads on the landscape to avoid disturbance to reserved trees, where feasible.
 - (dd) Provide a map of requested skid trail or skyline road locations a minimum of seven (7) working days in advance of cutting to obtain approval of the locations from the Authorized Officer. Proposed skid trails and skyline roads shall remain free from felled trees until approved.
- (15) Before cutting and removing any reserve trees necessary to facilitate logging in the Partial Harvest Area shown on Exhibit A, the Purchaser shall identify the location of the skid trails and skyline roads in accordance with Section 44(b)(14) and tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding, the following conditions must be met:
- (aa) All skid trails and/or skyline roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each skid trail, and/or skyline road shall be limited to 12 feet.
 - (bb) The Purchaser may immediately cut and remove additional timber to clear skid trails and skyline roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with blue paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Section 3(b) of the contract or sufficient bonding has been provided in accordance with Section 3(d) of the contract.
 - (cc) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section 9 of the contract.

- (dd) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
 - (ee) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract, or in accordance with Section 8 or Section 9 of the contract, as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
 - (ff) The Government may reserve trees previously designated for cutting and removal by applying yellow paint in the Regeneration Harvest Areas above and below stump height and the letter “R” on two sides of the trees as replacements for additional trees cut and removed for skid trails, and/or skyline roads, when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription. This may include the replacement of trees damaged by storm events, insects, or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (16) In accordance with the requirements of Section 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the Harvest Areas to meet all applicable State safety laws, codes, or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, that:
- (aa) Pink painted trees felled for safety or operational reasons shall not be removed, in accordance with Section 43(c).
 - (bb) Trees felled for safety or operational reasons in the Special Operating Area shall not be removed, in accordance with Section 44(b)(4)(aa).
 - (cc) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large “X”. The “X” shall be cut with a chain saw. The stump shall be marked by hanging flagging so that the stump can be visually located from a distance of not less than 50 feet. The Purchaser shall also paint an identifiable “X” on the butt log. The butt log shall remain on the contract area until such time as the Authorized Officer has scaled such additional timber and authorizes removal from the contract area.
 - (dd) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Section 3(b) or 3(f) of the contract as required by Section 8 of the contract.
 - (ee) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(f) of the contract have been made.
 - (ff) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - (1) Failed to properly mark any stump with the “X” cut.

- (2) Failed to identify the location of any stump.
- (3) Cut any reserve tree in or adjacent to skyline yarding roads that was not necessary to facilitate skyline yarding.
- (4) Cut any reserve tree in or adjacent to tractor skid trails that was not necessary to facilitate ground based yarding.
- (5) Failed to properly segregate any pulled over tree that was yarded to the landing.
- (6) Cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
- (7) Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
- (8) Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
- (9) Failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least five working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

All skyline yarding and/or ground based equipment skid trails upon which timber may be cut and removed in accordance with this special provision must be needed for the removal of timber sold under this contract and shall be limited to the narrowest width necessary for the yarding of logs with minimum damage to reserved trees.

The Purchaser shall be liable for damages in accordance with Section 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

- (17) Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over ten (10) inches, prior to the removal of timber from the contract area. All loads of eleven (11) logs or more will have a minimum of ten (10) logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of ten (10) logs or less. One end of all branded logs to be processed domestically will be marked with a three (3) square inch spot of highway yellow paint. The purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

If multiple trailers (mule trains) are used, each bunked load shall be considered an individual load, and these guidelines will apply to each bunked load. If a flatbed stake trailer is used, each bundle will be treated as a separate load.

At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

(c) Road Construction, Renovation, Improvement, Use, and Maintenance

- (1) The Purchaser shall construct Spurs 17B, 17C, and 21C, and Road Nos. 16-1-21.2 Ext. and 16-1-21.7 Ext., 16-1-21.8, and 16-1-28.3; renovate Road Nos. 15-1-34.3, 16-1-3, 16-1-5.3, 16-1-16, 16-1-17, 16-1-20, 16-1-20.1, 16-1-20.2, 16-1-21, 16-1-21.7, 16-1-22, and 16-1-22.1; improve Road Nos. 16-1-21.1, 16-1-21.2 and 16-1-21.4, in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof. Exhibit C contains 45 sheets.
- (2) Prior to removal of any timber, except right-of-way timber, the required construction, renovation, and/or improvement of the haul route for that timber shall be completed as specified in Exhibit C.

The required construction, renovation, and/or improvement of roads shall occur between June 1 and October 31, and are subject to dry conditions as determined by the Authorized Officer.

- (3) Culvert replacement/installation on streams shall be done between June 1 and October 31 (both days inclusive), and shall be completed prior to hauling and fall rains. During installation of the stream culverts, dewatering of the culvert bed, silt fences and/or straw bales may be required as directed by the Authorized Officer. All work shall be completed in accordance with the plans and specifications shown in Exhibit C.
- (4) Prior to any quarry operations, the Purchaser shall provide a quarry development plan which must be reviewed on site with the Authorized Officer and the contractor performing the drilling, blasting, and crushing, as detailed in Exhibit C.
 - (aa) Quarry operations, which include drilling, blasting, crushing, loading, and hauling shall be completed at Bunker Hill Quarry in T. 15 S., R. 1 W., Sec. 34, by December 31, 2023. Rock is to be stockpiled at designated stockpile sites in T. 16 S., R. 1 W., Sec. 21, or placed in accordance with Exhibit C, prior to this date. This restriction may be negotiated with other quarry users, subject to approval by the Authorized Officer and may result in a contract modification. Bonanza South Timber Sale is expected to utilize Bunker Hill Quarry and is expected to sell June 22, 2023.
- (5) The Purchaser shall furnish and place 450 cubic yards of surface maintenance rock in accordance with Exhibit D, which is attached hereto and made a part hereof. Exhibit D contains 6 sheets. Road reinforcement (rocking) and additional maintenance that may be required for wet weather haul shall be at the Purchaser’s expense. Purchaser shall be required to provide to the BLM notice of placement as well as locations of where maintenance rock is placed.
- (6) BLM Maintenance: The Purchaser is authorized to use the roads listed below and shown on Exhibit D, which are under the jurisdiction of the Bureau of Land Management, for the removal of Government timber sold under the terms of this contract, and/or the hauling of rock as required in Exhibits C and D, provided that the Purchaser pay the required maintenance and/or rockwear obligations described in Section 44(c)(8) and Section 44(c)(9). The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

<u>Road No. and Segment</u>	<u>Length Miles Used</u>	<u>Road Ownership</u>	<u>Road Surface Type</u>
16-1-16	.98	BLM	Rock
16-1-17 Seg. A	.79	County	Rock
16-1-20 Seg. A	.55	WW*	Rock

WW = Wiley Wilkins Ranch, LLC

- (7) Purchaser Maintenance: The Purchaser is authorized to use the roads listed below and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management, and/or Weyerhaeuser Timber Holdings, Inc. and/or Wiley Wilkins Ranch, LLC for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibits C and D, provided that the Purchaser comply with the conditions set forth in Sections 44(c)(8), 44(c)(9), 44(c)(10), and 44(c)(11), and pay the required rockwear obligation described in Section 44(c)(9). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

<u>Road No. and Segment</u>	<u>Length Miles Used</u>	<u>Road Ownership</u>	<u>Road Surface Type</u>
Spur 17B	.03	WW**	Natural
Spur 17C	.03	BLM	Natural
Spur 21C	.07	BLM	Rock
16-1-20 Seg. B	.08	WTHI*	Rock
16-1-20.1	.37	WTHI*	Rock
16-1-20.2	.23	WTHI*	Rock
16-1-21	2.67	BLM	Rock
16-1-21.1	.76	WTHI*	Rock

16-1-21.2, and -21.2 Ext.	.36	BLM	Rock
16-1-21.4	.27	BLM	Rock
16-1-21.7 and -21.7 Ext.	.53	BLM	Rock
16-1-21.8	.06	BLM	Rock
16-1-22	.27	WTHI*	Rock
16-1-22.1	.40	BLM	Rock
16-1-28.3	.10	BLM	Rock

*WTHI = Weyerhaeuser

**WW = Wiley Wilkens Ranch, LLC

The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract.

- (8) The Purchaser shall pay to the Government a road maintenance obligation in the amount of Seven Thousand Eight Hundred Eighteen and 80/100 dollars (\$7,818.80) for the transportation of timber included in the contract price over the roads listed in Section 44(c)(6).

The maintenance fee shall be paid prior to removal of any timber from the contract area; provided, however, that if the total of such amount exceeds One Thousand and 00/100 dollars (\$1,000.00), the Authorized Officer may allow the Purchaser to make the payment in installments of not less than One Thousand and 00/100 dollars (\$1,000.00) in the same manner as and together with payments required in Section 3 of this contract.

- (9) The Purchaser shall pay to the Government a road maintenance obligation for rockwear in the amount of Six Thousand Six Hundred Forty-five and 99/100 dollars (\$6,645.99) for the transportation of timber included in the contract price over the roads listed in Section 44(c)(7).

This rockwear fee shall be paid prior to removal of any timber from the contract area; provided, however, that if the total of such amount exceeds One Thousand and 00/100 dollars (\$1,000.00), the Authorized Officer may allow the Purchaser to make the payment in installments of not less than One Thousand and 00/100 dollars (\$1,000.00) in the same manner as and together with payments required in Section 3 of this contract.

- (10) In the construction of Spur 17B, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. E-1049 Between the United States of America and the Wiley Wilkins Ranch, LLC. Said agreement is available for inspection at the Bureau of Land Management, Springfield Interagency Office, 3106 Pierce Parkway Suite E, Springfield, Oregon. Such conditions include but are not limited to the following actions by the Purchaser:

- (aa) Furnish a performance bond in the amount of Ten Thousand and 00/100 dollars (\$10,000.00).
- (bb) Maintain comprehensive liability insurance covering all operations, including vehicles, in amounts not less than One Million and 00/100 dollars (\$1,000,000.00) bodily injury for injury to any one person, One Million and 00/100 dollars (\$1,000,000.00) for any one occurrence, and One Million and 00/100 dollars (\$1,000,000.00) property damage for any one occurrence.

- (11) In the construction of Road Nos. 16-1-21.2 Ext., 16-1-21.7 Ext., 16-1-21.8, 16-1-28.3, the renovation, use, and maintenance of Road Nos. 16-1-17 Segs. B and D, 16-1-20 Seg. B, 16-1-20.1, 16-1-20.2, and 16-1-22, the improvement, use, and maintenance of Road No. 16-1-21.1, and use of a yarding wedge, tailholds, and/or guybacks at the end of Road No. 16-1-21.2 Ext., the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. E-662 between the United States of America and Weyerhaeuser Timber Holdings, Inc. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision. Said agreement is available for inspection at the Bureau of Land Management, Springfield Interagency Office, 3106 Pierce Parkway Suite E, Springfield, Oregon. Such conditions include but are not limited to the following actions by the Purchaser:

- (aa) Obtain a license agreement from Weyerhaeuser Timber Holdings, Inc. The license agreement, bond and insurance certificate shall be delivered to Weyerhaeuser Timber Holdings, Inc. at least 15 days prior to use of company roads.
 - (bb) Furnish a performance bond in the amount of Ten Thousand and 00/100 dollars (\$10,000.00).
 - (cc) Maintain comprehensive liability insurance covering all operations, including vehicles, in amounts not less than One Million and 00/100 dollars (\$1,000,000.00) bodily injury for injury to any one person, One Million and 00/100 dollars (\$1,000,000.00) for any one occurrence, and One Million and 00/100 dollars (\$1,000,000.00) property damage for any one occurrence.
 - (dd) Pay a lump sum road use fee of Twenty-six Thousand Six Hundred Ninety-seven and 00/100 dollars (\$26,697.00) prior to log hauling. Additional road use fees may be due as a result of modification volume to the contract.
 - (ee) Pay maintenance fees monthly, for volume hauled the previous month, at the rate per MBF equal to the appropriate BLM fee current at the time of hauling. Such payment to be accompanied by a report of volume hauled as a proration of the volume set forth in Exhibit B of the contract. Total maintenance fees payable shall be the product of the applicable rates and the estimated volume set forth in said Exhibit B and additional volume as sold by contract modification.
 - (ff) All maintenance and rockwear fees due as a result of modification shall be paid at rates current at the time of modification, with payment made prior to contract termination.
 - (gg) The Purchaser shall maintain Road Nos. 16-1-20.1, 16-1-20.2, and 16-1-21.1, and 16-1-22, in accordance with Section 44(c)(7).
 - (hh) Prior to cutting or removing any timber from the road right-of-ways, the Purchaser shall purchase approximately 16.5 MBF of timber required for the construction of Road Nos. 16-1-21.7 Ext. and 16-1-28.3 according to Weyerhaeuser Timber Holdings, Inc. license agreement specifications.
- (12) With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on roads included in Section 44(c)(7) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of their liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. Prior to hauling, the Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreement(s) entered into with other users on these roads.
- (13) The Purchaser also agrees that if they elect to use any private road which is the subject of a right-of-way agreement with the Government, for the removal of Government timber sold under the terms of this contract, they shall request and agree to the modification of this contract to provide for such use.
- (d) Environmental Protection
- (1) The Purchaser shall be required to clean logging, piling, road, and decommissioning equipment to remove dirt and plant debris that may contain noxious weed seeds from the undercarriage, tracks and tire treads prior to entry on BLM. The Authorized Officer shall require inspection of equipment to see that it was cleaned prior to arrival on site.
 - (2) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall apply native seed and certified weed-free mulch to cut and fill slopes and ditch lines with the potential for sediment delivery to wetlands, Riparian Reserves, floodplains, and waters of the State, as determined by the Authorized Officer. The BLM will provide native seed and mulch as needed.
 - (3) Snag Creation
 - (aa) Snag creation shall be completed within 90 days upon receiving notification from the Authorized Officer.
 - (bb) Purchaser shall select and top 77 trees and girdle 181 standing trees greater than 20 inch DBH. Location of selected trees shall be in accordance with and approved in writing by the Authorized Officer. Portions of trees topped shall remain reserved.

- (cc) Purchaser shall top trees at a height between 40 and 60 feet. Trees shall have the top completely severed.
- (dd) The Purchaser shall girdle the stem of the tree at a height of 2 to 5 feet from the ground line. The Purchaser shall complete three parallel cuts spaced 10 to 12 inches apart around the entire stem of the tree for each girdle. The Purchaser shall make cuts to penetrate into the wood and cambium layer of the tree. Trees selected shall be greater than 20 inch DBH or as directed by the Authorized Officer.
- (ee) No adjustment of volume or value shall be made to meet these requirements.
- (ff) The Purchaser shall tally all trees by diameter class and species on a daily basis. The tally may be requested by the Authorized Officer at any time during falling/girdling operations. At the end of falling/girdling operations, a completed tree tally shall be submitted to the Authorized Officer.
- (4) Cable yarding corridors shall be waterbarred and covered with slash immediately after use if necessary to prevent erosion, as determined by the Authorized Officer.
- (5) Upon each season’s shutdown and prior to fall rains, the Purchaser shall block skid trails and natural surfaced roads and shall place them in an erosion-resistant condition by constructing waterbars and/or lead-off ditches. Rocked roads on which Exhibit D final maintenance has not been completed, and that have been determined by the Authorized Officer to not be in an erosion-resistant condition shall have waterbars and/or lead-off ditches constructed. Waterbars shall be constructed in accordance with the specifications shown on Exhibit H, which is attached hereto and made a part hereof. Exhibit H contains 2 sheets. Blocking and water bars shall be completed as directed by the Authorized Officer.
- (6) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall, upon completion of hauling, and yarding, complete skid trail and road decommissioning measures. Skid trail and road decommissioning shall be completed during the dry season, typically between June 1 and October 31, as determined by the Authorized Officer.
 - (aa) Purchaser shall decompact skid trails, Spur 17B, and Spur 17C, to a depth of 18 inches with decompaction equipment such as a track mounted excavator with ripping teeth and an opposable thumb. Minimize damage to residual tree roots. The Purchaser shall decompact the entire trail prism. If equipment other than an excavator is used, it shall be approved by the Authorized Officer. It shall also be capable of decompacting to the required depth and provide lateral shatter of compacted layer.
 - (bb) Construct drainage dips, waterbars and/or lead-off ditches as directed by the Authorized Officer. Waterbars and drainage dips shall be constructed in accordance with the specifications shown on Exhibit H. Exhibit H contains 2 sheets.
 - (cc) Purchaser shall block skid trails and roads with root wads, logs and/or slash as directed by the Authorized Officer.

Roads	Surface	(aa) Decompact	(bb) Drainage	(cc) Block
Skid Trails	Natural	X	X	X
Spur 17B	Natural	X		
Spur 17C	Natural	X		
Spur 21C	Rock		X	X
16-1-21.7 Ext.*	Rock		X	X

*Block at station 14+90

(e) Fire Prevention

- (1) Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.

(f) Logging Residue Reduction

- (1) In addition to the requirements of Sections 15 and 26 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and/or site preparation measures required by this contract: Perform logging residue reduction and site preparation work on approximately one hundred twenty-seven (127) acres of Harvest Area. Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchasers operations under the terms of this contract.
 - (aa) Prior to commencement of any logging residue reduction and/or site preparation, a pre-work conference between the Purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All logging residue reduction and/or site preparation shall be done in accordance with the plans developed at the pre-work conference.
 - (bb) Machine pile and cover slash within ground-based harvested portions of the Regeneration Harvest Areas as directed by the Authorized Officer. Slash shall be piled by a machine equipped with a hydraulic thumb or a controllable, grapple head. If the purchaser elects to cable yard areas that were planned for ground based harvest (areas less than 35% slope or 50% slope if specialized equipment was used) and the slash exceeds 6 inches in depth, piling will be required as directed by the Authorized Officer.
 - (1) Unmerchantable logs greater than six (6) inches on the small end shall be left in place, or positioned so that they will not be burned.
 - (2) Machine piles shall be located as far as possible from reserve trees, culverts, or unit boundaries to minimize damage.
 - (3) Machine piles shall be kept free of dirt and other non-woody debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Slash left on the ground shall not exceed 6 inches in depth.
 - (4) All piles shall be covered with black four (4) Mil polyethylene plastic to cover at least seventy-five (75) percent of the surface of each pile, minimum plastic size of 10' x 10' cover. Plastic shall be held in place with woody debris and tied with combustible cord. The plastic must be secured so that it is held in place during strong wind conditions and maintains coverage for at least one year. The Purchaser is required to furnish the covering materials. Covering shall be completed at the time of piling or as directed by the Authorized Officer.
 - (5) Harvest Areas shall be piled during the same season that they are logged, unless otherwise directed by the Authorized Officer.
 - (cc) Hand pile and cover all slash situated within 27.5 acres of Helicopter Yarding Areas as directed by the Authorized Officer. Slash shall be piled by hand. Finished piles shall be tight and free of dirt.
 - (1) Hand piles shall be located as far as possible from reserve trees or unit boundaries to minimize damage. Slash shall not be piled on down logs, stumps, drainage ditches, turnouts, shoulders, cut banks, or within 10 feet of any other pile.
 - (2) Slash between two (2) inches and six (6) inches in diameter on the large end, having a minimum length of two (2) feet shall be piled as directed by Authorized Officer. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Pile size shall be a maximum of 8 feet in diameter by 8 feet in height, and minimum pile size shall be 6 feet in diameter by 5 feet in height at the time of final inspection by the Government. Slash left on the ground shall not exceed 6 inches in depth.

- (3) All piles shall be covered with black four (4) Mil polyethylene plastic to cover at least ninety (90) percent of the surface of each pile, minimum plastic size of 5' x 5'. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Plastic shall be held in place with woody debris or tied with combustible cord. The plastic must be secured so that it is held in place during strong wind conditions and maintains coverage for at least one year. The Purchaser is required to furnish the covering materials. Covering shall be done at time of piling.
 - (4) Harvest Areas shall be piled within 30 days upon receiving notification from Authorized Officer.
- (dd) Pile and cover landing slash and slash within twenty five (25) feet of all roads within or adjacent to the harvest units. All tops, broken pieces, limbs and debris more than two (2) inches in diameter at the large end and longer than three (3) feet in length shall be piled within fifteen (15) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located at least twenty (20) feet from any reserve tree and/or as directed by the Authorized Officer.
- (1) All logs greater than six (6) inches in diameter at the large end and longer than eight (8) feet in length shall be decked or windrowed at the location designated by the Authorized Officer, except logs sold and removed from the contract area.
 - (2) Upon completion of landing and roadside piling, the Purchaser shall prepare the piles for burning by securely covering each pile with black four (4) Mil polyethylene plastic. Landing and roadside piles shall be at least seventy-five (75) percent covered with the covering extending three-quarters of the way down all sides, minimum plastic size of 10' x 10'. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Plastic shall be held in place with woody debris and tied with combustible cord. The plastic must be secured so that it is held in place during strong wind conditions and maintains coverage for at least one year. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.
- (2) Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein and measures required in Section 44(e). In accordance with written instruction to be issued by the Authorized Officer at least 10 days in advance of the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on harvest area as shown below:
- (aa) For Igniting, Holding, and Mop-Up of Piles:
 - (1) One (1) work leader (Firefighter Type 1 (FFT1)) to supervise crew and equipment operations, and to serve as Purchaser's representative.
 - (2) Two (2) person crew (Firefighter Type 2 (FFT2)).
 - (3) Sufficient fuel for burning, five (5) drip torches or propane burners, one (1) power saw, and one (1) backpack pump, one (1) tool for each crew member.
 - (4) Radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.
 - (5) All ignition, holding, and mop-up personnel will be directly supervised by a BLM representative.

Aircraft and pilots used for Logging Residue Reduction or the suppression of escaped fires from Logging Residue Reduction operations, shall be acquired from a list of aircraft and pilots approved (i.e., carded for these specific activities) by the Office of Aircraft Services or the U.S. Forest Service. This list is available from BLM District Offices upon request.

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. In addition, all listed personnel shall be qualified according to the National Wildfire Coordinating Group (NWCG) Wildland Fire Qualification System Guide, PMS-310-1 and provide documentation of these qualifications. On the day of ignition all listed personnel shall be fluent in speaking and understanding English, clothing shall consist of long pants and long sleeved shirts, and be of approved aramid fabric (Nomex™ or equivalent), as well as being free of diesel fuel oil. All personnel shall wear boots with minimum eight (8) inch tall uppers that provide ankle support, approved hardhats and leather gloves. Personnel who do not meet these requirements or do not have proper clothing and personal protective equipment (PPE) will not be allowed to participate. All listed tools and equipment shall be in good usable condition. All power-driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power-driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each cutting unit shown on Exhibit A for seventy-two (72) hours, as directed by the Authorized Officer within a five (5) day period commencing at 8:00 a.m. the day following the completion of ignition in that unit, or until released from such service by the Government, whichever occurs first.

In event of a fire escapement, the Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to control and mop up the escaped fire until released from such service by the Government. If it becomes necessary to use furnished personnel and equipment for the suppression of a fire which escapes from the prescribed fire area for a period beyond the remainder of the day in which the fire escapes, then the Government shall, at its option: (1) reimburse the Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for the Western Area and at equipment rates shown in the current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule until the Purchaser is released from such service by the Government; or (2) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

In situations where an escaped fire is controlled and contained by an adequate fire break (i.e., trail, road, stream, rock formation, etc.), the Government may permit the Purchaser to remove personnel for that day; provided that all mop up work on the escaped fire is included with mop up work on the prescribed fire area. In such an event, the Purchaser must sign a statement of agreement to complete mop up work on all escaped fire areas concurrently with mop up work on the prescribed fire area.

In case of injury to personnel or damage to equipment furnished as required by this subsection, liability shall be borne by the Purchaser, unless such injury or damage is caused by Government negligence.

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel and equipment required herein, the Purchaser shall be responsible for all additional cost incurred by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment and appropriate additional overhead expenses. If the Purchaser's failure results in a deferral of burning and new conditions necessitate additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.



**United States
Department of the Interior
Bureau of Land Management**

Timber Appraisal

Sale Name: Bonanza North	Sale Date: Thursday, May 25, 2023
BLM District: NW Oregon DO	Unit of Measure: 16' MBF
Contract #: ORN05-TS-2023.0552	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-003 Lump Sum Sale of Timber and other Wood Products

SBA Set-Aside

Content

Timber Appraisal Summary
Stumpage Summary
Unit Summary
Stump to Truck
Transportation
Engineering Allowances
Other Allowances

Prepared By: Cranmer, Kyle M - 4/25/2023
Approved By: Rainey, Matthew D - 4/25/2023

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Lane	16 S	1 W	17	SE1/4SW1/4, W1/2SE1/4	Willamette
O&C	Lane	16 S	1 W	21	SE1/4NE1/4, SW1/4NW1/4, NW1/4SW1/4, S1/2SW1/4, SE1/4	Willamette
O&C	Lane	16 S	1 W	27	N1/2NW1/4	Willamette
O&C	Lane	16 S	1 W	29	NE1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	8,936.0	9,338.0	9,387.0	113,829	388	22,123
Western Hemlock	1,042.0	1,143.0	1,179.0	19,458	564	4,919
Bigleaf Maple	35.0	36.0	36.0	804	0	297
Western Redcedar	33.0	41.0	41.0	893	0	321
Incense-cedar	30.0	32.0	32.0	174	1	29
Red Alder	3.0	3.0	3.0	87	0	28
Totals	10,079.0	10,593.0	10,678.0	135,245	953	27,717

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
228.0	8.0	3.3	239.3	42.1

Logging Costs

Stump to Truck	\$2,364,188.98
Transportation	\$1,340,014.50
Road Construction	\$646,891.62
Maintenance/Rockwear	\$68,028.21
Road Use	\$26,697.00
Other Allowances	\$94,230.86
Total:	\$4,540,051.17
Total Logging Cost per MBF:	\$450.45

Utilization Centers

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Lyons, Oregon	89.0 miles	100 %

Profit & Risk

Profit	11 %
Risk	3 %
Total Profit & Risk	14 %

Tract Features

Quadratic Mean DBH	16.5 in
Average GM Log	78 bf
Average Volume per Acre	42.1 mbf
Recovery	94 %
<u>Net MBF volume:</u>	
Green	10,079.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	31 %
Average Yarding Slope	20 %
Average Yarding Distance	200 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	55 %
Average Yarding Slope	45 %
Average Yarding Distance	350 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	14 %
Average Yarding Slope	40 %
Average Yarding Distance	2000 ft

Cruise

Cruise Completed

June 2022

Cruised By

Dotson, Cranmer, Maynard

Cruise Method

The timber Volumes for Douglas-fir, western hemlock, western redcedar, and incense-cedar in both the Partial Harvest Area and Regeneration Harvest Areas were based on a variable plot cruise for estimating board foot volume. Plots were measured using a 40 basal area factor for a total of 243 plots. The timber volumes for Douglas-fir in the right-of-ways were based on a 3P cruise for estimating board foot volume. Red alder and big leaf maple in all Regeneration Harvest Areas and right-of-way areas were based on a 100% cruise for estimating board foot volume. Western hemlock and incense-cedar in all right-of-way areas were based on a 100% cruise for estimating board foot volume. A map showing the location of the plots and sample trees is available at the Springfield Interagency Office. With respect to merchantable Douglas fir; the average tree is 17.0" DBHOB; the average log contains 82 bd. ft.; the total gross merchantable volume is approximately 9,338 MBF; and 95% recovery is expected

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	22,123	8,936.0	\$645.26	\$90.34	\$450.45	\$0.00	\$104.50	\$933,812.00
Western Hemlock	4,919	1,042.0	\$400.90	\$56.13	\$450.45	\$0.00	\$40.10 *	\$41,784.20
Bigleaf Maple	297	35.0	\$272.86	\$38.20	\$450.45	\$0.00	\$27.30 *	\$955.50
Western Redcedar	321	33.0	\$801.83	\$112.26	\$450.45	\$0.00	\$239.10	\$7,890.30
Incense-cedar	29	30.0	\$541.64	\$75.83	\$450.45	\$0.00	\$54.20 *	\$1,626.00
Red Alder	28	3.0	\$303.35	\$42.47	\$450.45	\$0.00	\$30.40 *	\$91.20
Totals	27,717	10,079.0						\$986,159.20

* Minimum Stumpage values were used to compute the Appraised Price/MBF (10% of Pond Value)

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			2.0 %	61.0 %	34.0 %	3.0 %	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				44.0 %	51.0 %	5.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Bigleaf Maple							100.0 %

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill			Camp Run
Western Redcedar							100.0 %

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar							100.0 %

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Red Alder							100.0 %

Bonanza North**Unit Summary****ORN05-TS-2023.0552****Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	929.0	966.0	966.0	3,263
Western Hemlock	157.0	170.0	173.0	688
Incense-cedar	6.0	6.0	6.0	5
Western Redcedar	5.0	6.0	6.0	35
Totals:	1,097.0	1,148.0	1,151.0	3,991

Net Volume/Acre: 43.9 MBF

Regeneration Harvest	25.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	25.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	6,629.0	6,936.0	6,985.0	14,166
Western Hemlock	620.0	682.0	708.0	2,781
Bigleaf Maple	18.0	18.0	18.0	161
Incense-cedar	16.0	17.0	17.0	14
Western Redcedar	13.0	17.0	17.0	98
Red Alder	3.0	3.0	3.0	28
Totals:	7,299.0	7,673.0	7,748.0	17,248

Net Volume/Acre: 42.2 MBF

Regeneration Harvest	173.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	173.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Western Hemlock	66.0	78.0	79.0	577
Douglas Fir	51.0	54.0	54.0	334
Western Redcedar	9.0	10.0	10.0	144
Totals:	126.0	142.0	143.0	1,055

Net Volume/Acre: 15.8 MBF

Regeneration Harvest	0.0
Partial Cut	8.0
Right of Way	0.0
Total Acres:	8.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,114.0	1,159.0	1,159.0	3,917
Western Hemlock	189.0	203.0	208.0	826
Bigleaf Maple	17.0	18.0	18.0	136
Incense-cedar	7.0	8.0	8.0	6
Western Redcedar	6.0	8.0	8.0	44
Totals:	1,333.0	1,396.0	1,401.0	4,929

Unit: R/W1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	20.0	21.0	21.0	28
Incense-cedar	1.0	1.0	1.0	4
Totals:	21.0	22.0	22.0	32

Unit: R/W2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	193.0	202.0	202.0	415
Western Hemlock	10.0	10.0	11.0	47
Totals:	203.0	212.0	213.0	462

Net Volume/Acre: 44.4 MBF

Regeneration Harvest	30.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	30.0

Net Volume/Acre: 105.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	0.2
Total Acres:	0.2

Net Volume/Acre: 65.5 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	3.1
Total Acres:	3.1

Total Stump To Truck	Net Volume	\$/MBF
\$2,364,188.98	10,079.0	\$234.57

Stump to Truck: Falling, Bucking, Yarding, & Loading

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Helicopter	Net MBF	1,333.0	\$469.93	\$626,416.69	Unit 4 30 Ac
Cable: Medium Yarder	GM MBF	18.0	\$339.22	\$6,105.96	5,000/LD, 5 Loads/Day, \$4.40 Gallon, Downhill Yarding, 1 Acres, Thinning
Cable: Medium Yarder	GM MBF	124.0	\$271.37	\$33,649.88	5,000/LD, 5 Loads/Day, \$4.40 Gallon, Uphill Yarding, 8 Acres, Thinning
Cable: Medium Yarder	GM MBF	90.0	\$242.30	\$21,807.00	5,000/LD, 7 Loads/Day, \$4.40 Gallon, Downhill Yarding, 2 Acres, Regen
Cable: Medium Yarder	GM MBF	399.0	\$226.15	\$90,233.85	5,000/LD, 6 Loads/Day, \$4.40 Gallon, Uphill Yarding Through Dead Ground, 9 Acres, Regen
Cable: Medium Yarder	GM MBF	5,168.0	\$193.84	\$1,001,765.12	5,000/LD, 7 Loads/Day, \$4.40 Gallon, Uphill Yarding, 116 Acres, Regen
Wheel Skidder	GM MBF	3,164.0	\$168.67	\$533,671.88	5,000/LD, 8 Loads/Day, \$4.40 Gallon, Ground Base, 80 Acres, Regen
Shovel	GM MBF	234.0	\$166.51	\$38,963.34	5,000/LD, 5 Loads/Day, \$4.40 Gallon, R/W, 2.5 Acres
Shovel	GM MBF	35.0	\$166.51	\$5,827.85	5,000/LD, 5 Loads/Day, \$4.40 Gallon, R/W LSR And RR White Painted Trees, .8 Acres
Shovel	GM MBF	16.5	\$166.51	\$2,747.42	5,000/LD, 5 Loads/Day, \$4.40 Gallon, Private R/W volume
Subtotal				\$2,361,188.99	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Intermediate Support	Each	10.0	\$300.00	\$3,000.00	Additional Intermediate Supports for adverse topography
Subtotal				\$3,000.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Subtotal				\$0.00	

Comments:

Logging cost printouts are located in the Bonanza North contract office folder.

Total	Net Volume	\$/MBF
\$1,340,014.50	10,079.0	\$132.95

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Lyons, Oregon	89.0	Log Haul	GM MBF	10,593.0	\$126.50	\$1,340,014.50	100 %

Comments:

\$110.00/hour x 5.75 Hours round trip (60min delay included) = \$632.50 per trip / 5.0 mbf per load = \$126.50

Engineering Allowances

Total	Net Volume	\$/MBF
\$741,616.83	10,079.0	\$73.58

Cost Item	Total Cost
Road Construction:	\$646,891.62
Road Maintenance/Rockwear:	\$68,028.21
Road Use Fees:	\$26,697.00

Comments:

See Bonanza North contract office folder for Road Construction & Road Maintenance and Road Use appraisals.

Total	Net Volume	\$/MBF
\$94,230.86	10,079.0	\$9.35

Environmental Protection

Cost item	Total Cost
Equipment Washing	\$800.00
Subtotal	\$800.00

Logging

Cost item	Total Cost
Additional Tree Cutting	\$1,392.00
Snag Creation: Tree Topping 77 and Basal Girdle 181	\$11,927.30
Subtotal	\$13,319.30

Road Construction, Maintenance, Use, & Decommissioning

Cost item	Total Cost
Road Decommissioning	\$2,078.56
Skid Trail/Landing Decommissioning	\$2,768.00
Subtotal	\$4,846.56

Slash Disposal & Site Prep

Cost item	Total Cost
Slash Disposal Appraisal	\$75,265.00
Subtotal	\$75,265.00

Comments:

For More Information on Snag Creation: Tree Topping and Basal Girdle, Equipment Washing, Additional Tree Cutting Submerch, Fuels Appraisal, Skid Trial/Landing Decommissioning cost sheets, and Road Decommissioning appraisal cost are located in the Bonanza South contract office folder.