COOS BAY DISTRICT OFFICE
MYRTLEWOOD FIELD OFFICE

SALE DATE: November 20, 2026
SALE TIME: 10:00 a.m.

SALE NO.: ORC04-TS-2027.0031, Rye Rowland Rye

LUMP SUM
(2A-150 Gate Key Needed)

COOS COUNTY: OREGON: O&C:

ORAL AUCTION: Bid deposit required: $51,500.00

All timber designated for cutting on: T. 31 S., R. 12 W., Sec. 5, SE1/4NE1/4, NW1/4SW1/4, S1/2SW1/4, NE1/4SE1/4, S1/2SE1/4, T. 31 S., R. 12 W., Sec 8, N1/2NW1/4, SE1/4NW1/4, Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
9,962	2,671.0	Douglas-fir	3,332.0	$142.80	$475,809.60
1,269	633.0	grand fir	784.0	$45.10*	$35,358.40
130	14.0	western hemlock	17.0	$44.70*	$759.90
86	21.0	Port-Orford Cedar	30.0	$34.60*	$1,038.00
87	11.0	red alder	15.0	$42.50*	$637.50
11,534	**3,350.0**	**Total**	**4,178.0**		**$513,603.40**

* = 10% of Pond Value

Product	Unit of Measure	Estimated Number of Units	Appraised Price Per Green Ton	Estimated Volume Times Appraised Price
Biomass	Green Tons	259.4	$3.00	**$778.20**

Total Value: $514,381.60

THIS TIMBER SALE HAS BEEN CRUISED, APPRAISED, AND ADVERTISED BASED UPON SCRIBNER BOARD FOOT MEASURE (16 FOOT LOG). THE MINIMUM BID FIGURES SHOWN BY SPECIES ARE DOLLARS PER THOUSAND BOARD FEET (MBF). THE MINIMUM INCREMENT WILL BE $0.50 PER MBF. SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES.

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 is prohibited from being used as a substitute for exported private timber.

CRUISE INFORMATION: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 17.4 inches: the average gross merchantable log contains 94 bd. ft.; the total gross volume is approximately 4,605 MBF; and 90% recovery is expected. The average DBHOB for Douglas-fir is 17.2 inches; and the average gross merchantable

log contains 87 bd. ft.; and 91% recovery is expected. None of the total sale volume is salvage material. The following cruise methods were used for volume determination:

VARIABLE PLOT: Timber volumes in all harvest units were based on a variable plot cruise. Using a 40 Basal Area Factor (BAF), Cruise was comprised mostly of PCMTRE with 321 plots and 142 sample trees 9,962 DF, 1,269 GF, 130 WH, 87 RA, 86 POC. Sampling error is 9.69%. The sample trees have been cruised and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total sale volume.

CUTTING AREA: One hundred twenty-six (126) acres to be regeneration harvested. There are seven (7) harvest units. Acres shown on Exhibit A have been computed using the Field Maps program.

ACCESS: Access to the sale area is provided via: Oregon State highways, Coos County roads, privately controlled roads, and Government controlled roads.

DIRECTIONS TO SALE AREA: From Broadbent, OR., proceed on Powers Highway 542 approximately 13 miles, turn right onto the 30-12-3.0 Baker Creek Road, proceed approximately 2.5 miles, turn right onto the 31-12- 8.0 road. Proceed approximately 0.5 miles to the ridgetop. Go straight ahead to access Units 1&2, the yellow gate requires a 2A-150 key or turn left onto the 31-12-8.1 road to access Units 3-6. See Exhibit A1.

ROAD USE & MAINTENANCE: Refer to Exhibit E Summary attached. Operator maintenance required on 4.56 miles of road.

Rock wear and Maintenance Fees Payable to BLM: $14,163.58
Rock wear and Road Maintenance Fees Payable to Agness, LLC: $668.79
Road Use Fees Payable to Agness, LLC: $334.00
Rock wear and Road Maintenance Fees Payable to Dorla Warner Trust: $24.42
Road Use Fees Payable to Dorla Warner Trust: $0.00

ROAD CONSTRUCTION:

Road Construction estimates include the following:

New Construction:

23.45 stations

Road Renovation:

310.0 stations

Aggregate:

Base/Landing Rock, 3" hardrock:	1080 C.Y. (Truck Measure)
Rip Rap Class 3:	65 C.Y. (Truck Measure)
Maintenance Rock, 1 ½" minus hardrock:	260 C.Y. (Truck Measure)
1 ½" minus Culvert Rock:	700 C.Y. (Truck Measure)

Drainage:

18" Corrugated Polyethylene Pipe:	300 Lineal Feet
24" Corrugated Polyethylene Pipe:	730 Lineal Feet
30" Corrugated Polyethylene Pipe:	160 Lineal Feet
36" Corrugated Polyethylene Pipe:	100 Lineal Feet

Soil Stabilization:

Dry Seed, fertilizer, & mulch:	4.8 acres (Pre Haul)
Dry Seed, fertilizer, & mulch:	3.0 acres (Post Haul)
Other Sediment Control Devices:	86 Water Bars
Earthen Barrier:	1 Barrier

Roadside Brushing:

11.9 acres

DURATION OF CONTRACT: Shall be thirty-six (36) months for cutting and removal of timber. The contract will contain special stipulations regarding logging, road construction, road use and maintenance, fire prevention, hazard reduction and logging residue reduction, log export and substitution, optional scale check of lump sum sales, SBA, Buyout Securities, vehicle cleaning, snag creation, equal opportunity in employment, cultural resource protection, and sensitive, threatened, or endangered plants or animals.

PROVISIONS UNIQUE TO THIS CONTRACT: This list is not comprehensive. Please review the entire contract.

1. A license agreement is required with Agness, LLC, a performance bond in the amount of $10,000.00 and comprehensive liability insurance will be required for this license agreement.
2. A license agreement is required with Dorla Warner Trust, a performance bond in the amount of $5,000.00 and comprehensive liability insurance will be required for this license agreement.
3. No trees shall be felled into the Reserve Area, as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used, as necessary.
4. Seasonal Timing Restriction (MM) apply to Units 3, 6 & 7: chainsaw operations, falling, yarding, heavy equipment, and new road construction operations are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to the period from two (2) hours after sunrise to two (2) hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.
5. Lift trees and intermediate support trees may be necessary and will be identified during corridor layout.
6. One-end suspension required in cable and ground-based yarding areas as shown on Exhibit A.
7. BLM will assume supervisory responsibility for disposal of logging slash.

8. Within one (1) year following the completion of yarding operations, create 128 snags as directed by the Authorized Officer.
9. To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Section 27 of this contract.
10. A BLM (2A-150) gate key is needed to access all units. This key can be picked up at the Coos Bay District office front desk. A $100.00 key deposit is required payable by check or credit card.
11. To control the spread of noxious weeds and Port-Orford cedar root disease, the Purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made part hereof. All road building and logging equipment shall be washed prior to moving in and moving out of the Contract Area to control the spread of noxious weeds and Port-Orford cedar root disease.
12. **Hand piling and hand pile covering are required per Section 44.e.8 and Section 44.e.9. of the contract.**
13. Privately owned timber in the posted right-of-way clearing limits shall be purchased by the Purchaser. The Purchaser will need to contact two different landowners and negotiate a price for the timber. The privately owned timber on the 31-12-8.6 and the 31-12-8.7 roads is owned by Agness, LLC. The privately owned timber on the 31-12-9.5 road is owned by Dorla Warner Trust.

Seasonal Restriction Matrix ORC04-TS-2027.0031 RYE ROWLAND RYE Timber Sale Prospectus

***Restricted periods are Shaded; Conditional periods are hatched; See Exhibit A for portions of units affected.**

Sale Area	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
General All Units	Falling and bucking[2]																								
	Cable yarding[2]																								
	Road Construction, Renovation Work[1]																								
	Hauling[1]																								
	Hauling on approved rocked roads[4]																								
	Ground based yarding[3]											25 %													
Units 3,6,7	Seasonal Restriction Area (MM)[5]															5 th									

[1] Wet season restrictions may be shortened or extended depending on weather conditions.
[2] Bark slip seasonal restrictions may be conditionally waived upon written request and Authorized Officer approval. Strict compliance with damage provision required for continued operations.
[3] Ground based yarding restricted to periods when soil moisture levels are below 25% as determined by the Authorized Officer.
[4] Wet season haul on rocked roads may be suspended during periods of heavy rain.
[5] In the Seasonal Restriction Area (MM) shown on Exhibit A, chainsaw operations, falling, yarding, heavy equipment operations, and new road construction operations are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to the period from two hours after sunrise to two hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive

SCHEDULE I

Sec 43. WOOD PRODUCTS RESERVED FROM CUTTING. The following timber in the Contract Area, shown on Exhibit A, which is attached hereto and made a part thereof, is hereby reserved from cutting and removal under the terms of this contract and is retained as property of the Government:

a. All timber in the Reserve Area, shown on Exhibit A, and all blazed, orange painted and/or posted trees which are on or mark the boundaries of the Reserve Area.
b. All orange painted reserve trees marked with an "S" above and below stump height within the Regeneration Cut Units.
c. All existing standing dead trees, except those snags that must be felled to permit safe working operations provided that all snags felled must be retained on site.
d. All existing downed wood in decay classes 3-5 and all existing downed wood six to twenty (6"-20") inches or larger in diameter measured on the large end regardless of decay class.
e. All Bearing Trees with metal tags that mark property corners.
f. Ninety-five (95) trees marked with a band of orange paint at breast-height and a mark below stump height have been identified as pre-1850 qualified trees (equal or greater than forty (40") inches DBH and BLM-determined to be established prior to 1850), as shown on Exhibit A. If a qualifying pre-1850 tree is identified that may require felling for operational necessity, approval must first be obtained from the Authorized Officer. The felled tree shall be retained on-site as down woody material. A qualifying pre-1850 tree may be cut, but not removed, without Authorized Officer approval only if it is determined to be imminent danger or safety concern in accordance with applicable provisions of Federal, State, and local safety laws, codes, and regulations.

Sec 44. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions which are attached hereto and made part hereof unless otherwise authorized, in writing, by the Authorized Officer:

a. Logging

(1) Prior to 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 is approved.

(2) Before beginning operations in the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten or more days.

(3) Whole tree yarding is required for all tree species wherever possible.

(4) No trees may be felled into the Reserve Area. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.

(5) Some trees within the posted Right-of-Ways in Units 1 and 2 are within the inner and middle zones of Riparian Reserve Areas. These trees are marked with a yellow painted "CL" which means Cut and Leave. These trees can be felled and placed outside the road prism but must remain on-site as downed wood.

(6) Damage to residual trees shall affect less than 5% of reserve trees. Bark removed from the cambium three (3) inches or wide or wider, top broken at three (3) inches diameter or greater, root sprung trees, or any root collar damage shall constitute damage. Damage levels will be determined by the Authorized Officer using a government sample of an affected area. Failure to resolve excess damage to reserve trees may result in suspension of operations and recovery of the value of the damaged timber in accordance with Sec. 13.

(7) Seasonal Timing Restriction Areas (MM) apply to Units 3, 6 & 7 as shown on Exhibit A – chainsaw operations, falling, yarding, heavy equipment, and new road construction operations are prohibited in the period between April 1 and August 5. In addition, a daily timing restriction confines operations to the period from two (2) hours after sunrise to two (2) hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.

(8) In the Regeneration Harvest Units, yarding (except for road right-of-way and Ground-Based Yarding Areas, shown on Exhibit A) shall be done with a skyline cable system according to the following:

(a) The skyline cable system shall be capable of being rigged in a multi-span configuration utilizing a carriage capable of yarding seventy-five (75') feet laterally from the skyline. Skyline roads shall not be spaced closer than one hundred fifty (150') feet apart, unless approved by the Authorized Officer and be no wider than twelve (12') feet as measured between reserve trees.
(b) One-end suspension is required during yarding operations. Intermediate support and/or lift trees may be required to obtain the required suspension. Full suspension is required when yarding over stream channels as shown on the Exhibit A.
(c) If placement of the yarding corridor requires the cutting of a tree in the Reserve Area adjacent to a stream channel, the tree shall remain on-site and felled toward the direction of the channel in a manner to protect the stream bank from disturbance during yarding. Yarding corridors shall cross stream channels perpendicular where possible to minimize cutting of trees within the Reserve Area. Yarding corridor location within the Reserve Area shall be approved by the Authorized Officer prior to cutting.
(d) Where road locations allow yarding will be done so that corridors run parallel to each other rather than radiate from a central landing.

(9) In the Ground-Based Yarding Areas, shown on the Exhibit A and within road rights-of-way, cutting and yarding shall be done according to the following:

(a) In addition to the requirements set forth in Sec. 26 of this contract, ground-based operations shall be restricted to the dry season, which is typically June through October. Unseasonably dry or wet weather may shorten or extend the operating season.
(b) Ground-based operations shall be conducted when soil moisture content is below twenty-five (25%), as determined by the Authorized Officer; unseasonably dry or wet weather may shorten or extend the operating season. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.

(c) The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead that is an integral part of the machine that is capable of lifting the leading end of the turn clear of the ground. All logs in the Ground-Based Yarding Area shall be yarded with their leading end clear of the ground. A forwarder or tracked log loader may also be used to yard logs.
(d) Primary skid trails shall use existing trails wherever possible, be spaced ninety-five (95') feet apart, and be no wider than twelve (12') feet as measured between reserve trees.
(e) Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.
(f) All ground-based equipment shall be restricted to operating on slopes less than thirty-five percent (35%), except when previously constructed trails or accessing isolated ground-based harvest areas requiring short trails over steeper pitches. Also, limit the use of this equipment when surface displacement creates trenches, depressions, excessive removal of organic horizons, or when disturbance would channel water and sediment as overland flow.
(g) Primary skid trails with a slope greater than fifteen percent (15%) and/or are left with more than one hundred (100) feet of continuous bare ground shall have water bars installed and/or be covered with slash for erosion control prior to October 31 as directed by the Authorized Officer.

(10) Sec. 44.a (14,15) shall be the primary method for the identification, cutting, and removal of additional timber required for skyline corridors, yarding trails, and guy-line trees. Sec. 44.a (15) may be used at the discretion of the Authorized Officer. The Purchaser shall be notified in writing when Sec. 44.a (15) is authorized for use.

(11) Before cutting and removing any reserve tree necessary to facilitate logging in the Regeneration Cut Units the Purchaser shall identify the location of the cable yarding roads, tail hold, tieback, guy line, 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 condition must be met:
(a) All cable yarding 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 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 yarding road shall be limited to twelve (12') feet.
(b) The Purchaser may immediately cut and remove additional timber to provide tail hold, tieback, guy line, 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 will be determined by the Authorized Officer in accordance with the Bureau of Land Management prescribed procedures. No timber may be cut or removed under this provision unless sufficient installment payments have been made in accordance with Sec.3.(b) of the contract or sufficient bonding has been provided in accordance with Sec. 3.(f) of the contract.
(c) 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 Sec. 9 of the contract; or, the Authorized Officer determines that any tree that exceeds twenty-four (24") inches diameter at breast height shall

be appraised and sold by bilateral modification of the contract at current market value in accordance with Sec. 8 of the contract.

(d) 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 Sec. 10 of the contract constitutes a violation of the contract and under Sec. 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.

(e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least two (2) days working days 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 Sec. 8 or 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.

(f) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding 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, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with the 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.

(12) In accordance with the requirements of Sec. 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 contract area which, is obstructing needed cable yarding roads, hazardous to workers, needed for guy line, tail hold, and/or tieback trees to meet all applicable State safety laws, codes or regulations. This timber must be cut and 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 Sec. 8 of the contract: provided, however, that:

(a) Seed trees, bearing trees, trees larger than forty (40”) inches diameter at breast height and established prior to 1850, and trees located within the Reserve Areas are not included in this authorization.

(b) The Purchaser shall identify each tree sold and cut in accordance with this provision by marking the surface of the stump immediately after cutting with a large “X”, cut with a chainsaw, and by painting the stump with fluorescent red paint so that the stump can be visually located from not less than one hundred (100) feet.

(c) Concurrently with falling, paint the end of the butt log of each tree with fluorescent red paint. When butt logs are yarded, deck separately for inspection by Authorized Officer.

(d) The Purchaser conforms to all requirements of Sec. 8 of this contract; provided that (1) the unit prices for additional timber within unit boundaries shall be unit prices shown in Exhibit B of this contract, or the reappraised unit prices arrived at in accordance with Sec. 9 of this contract, and (2) timber outside of unit boundaries shall be sold at fair market value;

(e) No timber may be cut or removed under the terms of this provision if all contract payments required by Sec. 3(b) or 3.(f) have not been made; and,

(f) 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. Fails to properly mark any stump with the "X" cut and fluorescent red paint.
2. Fails to properly mark any butt log with fluorescent red paint.
3. Cuts any tree that was reserved for tree improvement and/or wildlife habitat.
4. Cuts any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
5. Cuts any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground-based yarding.
6. Fails to properly segregate any pulled over tree that was yarded to the landing.
7. Cuts 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.
8. Cuts more than the minimum number of trees necessary to properly serve as guy line anchor stumps.
9. Cuts or topped more than the minimum number of trees necessary to properly serve as tail hold trees.
10. Cuts more than the minimum number of trees necessary to properly serve as tie-back for topped tail hold trees.

Failure to perform any of the conditions listed above may be considered a trespass.

If the permission to cut and remove additional timber provision is withdrawn, the Authorized Officer shall deliver to the Purchaser a written notice that the additional sale of timber under this special provision is no longer approved.

If the permission to cut and remove additional timber provision 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 two (2) working days prior to the need for cutting and removing additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Authorized 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.

All cable-yarding and/or ground-based equipment yarding 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 Sec. 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

(13) Prior to attaching any logging equipment to any tree in the Reserve Area the Purchaser shall obtain written approval from the Authorized Officer and shall take all precautions to protect the trees from damage, as directed by the Authorized Officer.

(14) During logging operations, the Purchaser shall keep the 31-12-8.0 road where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as practicable. These roads shall not be blocked for more than twenty (20) minutes.

(15) The Purchaser shall provide signage to control traffic when conducting operations adjacent to any road or as directed by the Authorized Officer and in accordance with Sec. 29 of the timber sale contract.

(16) To control the spread of noxious weeds and Port-Orford cedar root disease, the Purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made part hereof. All road building and logging equipment shall be washed prior to moving in and moving out of the Contract Area to control the spread of noxious weeds and Port-Orford cedar root disease.

(17) To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Sec. 27 of this contract.

(18) Maintain and refuel heavy equipment a minimum of one hundred fifty (150') feet away from streams and other water bodies. Refuel small equipment at least one hundred (100') feet from waterbodies to prevent direct delivery of contaminants into a waterbody. Refuel small equipment from no more than 5-gallon containers. A small spill kit is required to be on-site during operations. In the event of a spill or release, take all reasonable and safe actions to contain the material. Specific actions are dependent on the nature of the material spilled. If more than 42 gallons of fuel or combined quantity of petroleum products and chemical substances were transported to a project site as project materials, a spill kit that can absorb and contain 55 gallons of petroleum product and chemical substances shall be readily available. The Purchaser shall be responsible for the clean-up, removal, and proper disposal of contaminated materials from the site in accordance with Section 28 of the contract.

(19) 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.

(20) Seasonal and daily timing restrictions would be applied to any use of tailhold, guyline, or lift trees within marbled murrelet occupied sites. Selection of tailhold trees would be subject to the following specifications:

(a) Select the smallest acceptable tree.
(b) As operationally feasible, avoid trees that:
    1. Have a DBH >34" inches
    2. Have visible nests, or nesting structures (e.g. platforms, large limbs, and cavities.)
    3. Are the only large conifer present in a visible area.
(c) If the tailhold tree(s) remain standing, prevent damage by using appropriate protection (i.e. tree plates, tires, or nylon straps) where possible to avoid girdling of the tree. Girdling or notching should not exceed sixty percent (60%) of the tree circumference.

b. Snag Creation:

(1) The Purchaser shall, by March 31, 2030, or within one (1) year following the completion of yarding operations, create one hundred twenty-eight (128) snags total. They are pre-designated with an orange painted band at breast height. The following stipulations are in accordance with Exhibit I:

(a) The Purchaser shall create fifty-eight (58) snags in Unit 1, thirty-five (35) snags in Unit 2, one (1) in Unit 3, four (4) in Unit 4, three (3) in Unit 5, ten (10) in Unit 6, and seventeen (17) in Unit 7.
(b) All snags are pre-designated and marked with an orange painted band at breast height, and an orange painted "S" on the uphill and downhill sides of the tree.
(c) Snags shall generally be created by girdling live green trees at three and one-half ($3^{1/2'}$) feet above the root collar, cut ½ to ¾ circumference around the tree and penetrate the cambium layer into the wood at half (½") inch, but no more than one (1") inch. The distance between the top and bottom cut shall be at least 1' foot apart but shall not exceed two (2') feet and on opposing sides of the tree bole. Alternatively, girdling may be achieved through the use of three (3) parallel cuts into the cambial tissue around the tree as specified within the Exhibit I.
(d) The Purchaser shall not girdle trees for snag creation within one hundred (100') feet (minimum slope distance) of any open or unblocked roads, unless approved by the Authorized Officer.
(e) Any tree with the following characteristics shall be avoided for snag creation treatment:

i. Existing broken tops (live or dead trees), multiple-top, or dead-top trees.
ii. Trees exhibiting severe mechanical damage, fire scars, obvious disease, or decay (Example: root rot fungi at base or large mistletoe platforms).
iii. Any tagged tree (bearing tree or designated genetic/research tree).
iiii. Any tree greater than forty (40") inches diameter at breast height and established prior to 1850.

(f) If pre-designated snags need to be replaced for any reason, the Purchaser shall work with the Authorized Officer to choose the replacement(s).

c. Road Construction

(1) The Purchaser shall construct, improve, and renovate roads in strict accordance with the road plans and specifications, shown on Exhibit C, which is attached hereto and made a part hereof.

(2) Any required construction, improvement, or renovation of structures and roads shall be completed and accepted prior to removal of any timber, except right-of-way timber, over that road.

(3) In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall complete erosion control and soil stabilization measures on all cuts, fills, waste areas, and scarified areas, as designated by the Authorized Officer, along all sections of roadway disturbed during the year typically prior to October 15th of each year. The Authorized Officer may set time limits for the beginning and completion of erosion control and soil stabilization measures and modify seasonal dates to conform to existing weather conditions and changes in the construction schedule. Such work shall be accomplished in accordance with Erosion Control and Soil Stabilization, 1700 and 1800 Series, contained in Exhibit C, which is attached hereto and made part hereof.

(4) The Purchaser, prior to construction of landings, shall stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.

(5) Privately owned timber in the posted right-of-way clearing limits shall be purchased by the Purchaser. The Purchaser will need to contact two different landowners and negotiate a price for the timber. The privately owned timber on the 31-12-8.6 and 31-12-8.7 roads is owned by Agness, LLC. The privately owned timber on the 31-12-9.5 road is owned by Dorla Warner Trust.

d. Road Use and Maintenance

(1) The Purchaser shall be required to secure written approval to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

(2) Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices. Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least thirty (30) days prior to proposed move in. Details shall include:

(a) Axle weights when fully loaded;
(b) Axle spacing;
(c) Transverse wheel spacing;
(d) Tire Size;
(e) Outside width of vehicle;
(f) Operating speed;
(g) Frequency of use; and,
(h) Special features (e.g. running tracks, overhang loads, etc.).

The Purchaser shall be responsible for repair of any damage to structures caused by the use of overweight or over-dimension vehicles: (1) without written approval, (2) in violation of the conditions of written approval or (3) in a negligent manner. The amount of actual damage shall be determined by the Authorized Officer following a technical inspection and evaluation.

(3) The Purchaser is authorized to use the roads shown on Exhibit E, attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract; provided, that the Purchaser shall pay the Government a maintenance and rockwear obligation totaling $14,163.58, shown on Exhibit E. Unless the total maintenance and rockwear fees due BLM are paid prior to commencement of operations on the contract area, payments shall be made in installments payable in the same manner as and together with payments required in Sec 3 of this contract. Timber volume added by modification will be assessed at a rate of $3.39/MBF for removal of timber over Government controlled roads.

(4) The Purchaser shall perform maintenance and repair of such roads shown on Exhibit D in accordance with the maintenance specifications listed in Exhibit D, attached hereto, and made part hereof.

(5) At all times during the period of operations on the contract area, and upon completion of said operations, the Purchaser shall be liable for maintenance and repair of such roads shown on Exhibit D resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D.

(6) With the prior approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users of any BLM controlled road included in Sec. 44.d.(1,2,3) of this contract; provided that such a cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with users on these roads.

(7) The Authorized Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of the current Bureau of Land Management (BLM) road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Sec. 44.d.(1,2,3). If the total road maintenance fee does not exceed $500.00, the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance fee exceeds $500.00, the Authorized Officer shall establish an installment schedule of payments of the maintenance obligation.

(8) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreements between the United States and Agness, LLC, RWA-C-509. A road use fee of $334.00 and a rockwear and maintenance fee of $668.79 payable to Agness, LLC pursuant to RWA-C-509. The agreements are available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of $10,000.00 and comprehensive liability insurance will be required by the Licensor.

Prior to commencement of operations, the Purchaser shall furnish to the Authorized Officer a copy of the executed License Agreement issued under the terms of the Right-of-Way Agreements. Default by the Purchaser of said Right-of-Way and Road Use Agreements, of any License Agreements executed pursuant thereto, for failure to pay appropriate road use fees or road maintenance 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. Road maintenance fees may change during the course of the contract as determined by the Licensor. It is the responsibility of the Purchaser to pay fees current at time of haul.

If a Licensor is the Purchaser, allowances have been made for amortization of capital investment of the roads covered by the Licensor's Agreement in accordance with 43 CFR 2812.6-2(a)(5); it is understood that the purchase price stated in Sec. 2 of this contract is the net price and that no deduction will be made from the contract price because of such allowance.

(9) In the use of required company roads shown on the Exhibit E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreements between the United States and Dorla Warner Trust, RWA-C-1041. A road use fee of $0.00 and a rockwear and maintenance fee of $24.42 payable to Dorla Warner Trust pursuant to RWA-C-1041. The agreements are available for inspection at the Bureau of Land Management, Coos Bay, Oregon. A performance bond in the amount of $5,000.00 and comprehensive liability insurance will be required by the Licensor.

Prior to commencement of operations, the Purchaser shall furnish to the Authorized Officer a copy of the executed License Agreement issued under the terms of the Right-of-Way Agreements. Default by the Purchaser of said Right-of-Way and Road Use Agreements, of any License Agreements executed pursuant thereto, for failure to pay appropriate road use fees or road maintenance 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. Road maintenance fees may change during the course of the contract as determined by the Licensor. It is the responsibility of the Purchaser to pay fees current at time of haul.

If a Licensor is the Purchaser, allowances have been made for amortization of capital investment of the roads covered by the Licensor's Agreement in accordance with 43 CFR 2812.6-2(a)(5); it is understood that the purchase price stated in Sec. 2 of this contract is the net price and that no deduction will be made from the contract price because of such allowance.

e. Fire Prevention and Control, Hazard Reduction and Logging Residue Reduction

(1) Fire Prevention and Control: Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

(a) At least three (3) days prior to power driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.

(b) Provide and maintain in the contract area in good working order, and immediately available, the following equipment for use during the closed fire season or periods of fire danger:

Firefighting tools shall be kept at each landing or at such other places as the Authorized Officer shall designate whenever employees are working on the contract area. All firefighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two (2) landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire. Operations with four (4) or less workers are not required to provide a fire toolbox as long as each worker is equipped with a shovel suitable for fire suppression.

At each landing during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with enough one and a half inch (1 ½") hose to reach from the water supply to any location in the operation area affected by power driven machinery, or one thousand (1,000) feet, whichever is greater. Two (2) nozzles and one (1) gated wye are required to support this hose lay. Each tank truck shall be equipped with a pump capable of delivering a minimum of twenty (20) gallons per minute (gpm) water flow at one hundred ten (110) pounds per square inch (psi) engine pressure. The pump may be either power take off driven or truck mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½") inches National Hose

Thread (NH), (1") inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters use. All tank trucks shall be filled with water and made available for immediate use.

Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material for at least ten (10') feet in diameter from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.

(2) In addition to the requirements of Section 15 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 Purchaser for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction and logging residue reduction measures required of them by this contract: Perform logging residue reduction and site preparation work on all eighty-five (85) acres within the harvest units as shown on Exhibit A. The required work shall consist of any treatment or combination of treatments, as determined by the Authorized Officer, and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer. Prior to commencement of any operation under this section of the contract, a slash disposal and pre-work conference between the Purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. The number of acres of each treatment shall be determined by the Authorized Officer. All slash disposal shall be done in accordance with the plans developed at this pre-work conference. BLM will assume supervisory responsibility for disposal of logging slash.

(3) Logging Residue Reduction: In addition to the requirements of Section 15 of this contract and for hazardous fuel reduction, watershed protection, and silvicultural purposes, the Purchaser shall be responsible for logging residue reduction at all landing sites in the sale area as shown on the Exhibit A.
   (a) In lieu of burning, the Purchaser may remove landing residue for off-site utilization. If the utilization method is selected, the Purchaser shall provide information on the total tonnage of landing residue being removed from the sale area in accordance with the Exhibit B.
   (b) Prior to commencement of landing residue removal, the Purchaser shall provide advanced notification to the Authorized Officer in order to arrange for on-site inspections of the removal operations. Upon completion of landing residue removal, the Purchaser shall notify the Authorized Officer to arrange for a final inspection of the landing sites.

(4) Specifications for Landing Piling: Unless otherwise approved in advance by the Authorized Officer, landing piling shall be completed at each yarding location (setting) concurrently with the conclusion of yarding operations while logging equipment is still on-site.

   (a) Logging residue within the immediate vicinity of the landing, and any residue that overhangs the landing sites that can be reached by logging equipment, shall be pulled completely back onto the landing surface and either piled for burning or segregated for other uses.
   (b) Any logs or useable residue identified in the contract as reserved shall remain the property of the Government and may not be shipped for off-site utilization.
   (c) Logging residue at landings shall be accumulated into the fewest number of piles possible. Landing piles shall be free of dirt, constructed as upright as possible, and have a solid base to prevent toppling. Construction of low-profile, flat-topped piles is generally considered as unacceptable. The Purchaser is responsible for ensuring that properly shaped; contoured and stable landing piles are constructed.
   (d) Root wads from road construction activities shall not be included in the landing piles. Piling slash on top of root wad piles is not permitted. Any root wad piles found to be capped by slash by the Authorized Officer will require the removal and re-piling of the slash by the Purchaser.

(e) During or after pile construction, landing piles shall be shaped and contoured in such a manner that will allow for polyethylene sheeting (PE) to lay in a smooth and uniform manner completely across the top and partially down the sides of the pile to promote shedding of water, prevent pooling of water, and to reduce the possibility of PE being ripped or torn by underlying slash or from wind. Landing piles found by the Authorized Officer not meeting this shaping requirement shall be reconstructed or reshaped by the Purchaser.

(f) Unless directed by the Authorized Officer, no landing piles shall be constructed within twenty (20') feet of any reserved green trees, snags, marked wildlife trees, corrugated plastic pipes (CPP's), or other constructed feature or improvement that could be damaged by fire. No landing piles shall be constructed within fifty (50') feet of property lines.

(g) The Purchaser shall request an inspection of landing piles before equipment used in piling is moved off site. If piling equipment is moved off site before inspection and the piles are subsequently found to be noncompliant with the specifications and require re-work, the Purchaser shall be responsible for costs associated with move-in of piling equipment. Unless approved by the Authorized Officer, all requests for inspection of landing piling shall be made in writing (email is acceptable) at least ten (10) days in advance of planned equipment removal.

(h) Logs larger than eight (8") inches diameter at the large end and longer than eight (8') feet in length shall not be piled for burning but shall be segregated into separate piles that are no closer than twenty (20') feet from residue piles that will be burned.

(i) If during the course of pile construction or during a final acceptance inspection, the Authorized Officer determines that landing piles contain excessive amounts of logging residue that is larger than eight (8") diameter at the large end and longer than eight (8') feet in length, the Purchaser may be required to remove the specified residue from the landing piles.

(5) Specifications for Landing Covering: Only piles that have been inspected and approved by the Authorized Officer shall be covered. Pile covering shall be completed no later than September 15 of the current year at all landing sites where yarding activities have been completed. This applies to each year that the timber sale is active.

(a) The Purchaser shall place four (4) MIL, black polyethylene sheeting (PE) over the pile to provide maximum protection from fall/winter rains. PE sheeting shall lie uniformly and as smoothly as possible across the top of the pile and shall extend partially down the sides. For small properly constructed piles with base dimensions of approximately ten feet by ten feet (10' x 10') or less, the size of the PE sheeting should be a minimum of one hundred (100) square feet.

(b) To meet ignition and combustion needs, larger piles shall require additional PE sheeting to adequately cover the pile and protect it from wetting fall/winter rains. The Purchaser shall contact the Authorized Officer before any pile covering begins to receive specific directions on which piles will require additional covering. At that time, the Authorized Officer will identify all piles that shall have additional PE covering. If piles are covered without the advice and consent of the Authorized Officer and are subsequently found to be inadequately covered, the Purchaser shall be required to re-cover or add additional covering to the piles before acceptance is made.

(c) At landing sites with excessive logging residue that overhangs the landing which cannot be reached and pulled back onto the landing with equipment on site, the Purchaser shall place additional PE sheeting over the residue concentrations below the landings.

(d) All PE shall be weighed down with slash or logging debris in order to prevent sheeting from tearing and blowing or sliding off the pile. An adequate amount of anchoring material should be used, but no more than twenty (20%) percent of the material to be piled may be placed on top of the sheeting. Sheeting shall be tied down with twine on all four (4) corners.

(e) Piles of root wads generated from road and landing construction activities and piles of residue identified by the Authorized Officer for other uses shall not be covered with PE sheeting. If root wad piles are found to be covered, the Authorized Officer shall require the Purchaser to remove and dispose of the PE sheeting.

(6) Specifications for Machine Piling: Ground-Based Yarding Areas as shown on the Exhibit A will require piling and burning to prepare the site for planting. All tops, broken pieces, limbs and debris between two (2") and nine (9") inches in diameter and longer than three (3') feet in length will be piled. Piles shall be kept free of dirt and located at least twenty (20') feet of any reserved green tree, snags, marked wildlife trees, corrugated plastic pipes (CPP's) or other constructed features or improvements that could be damaged by fire.

(a) Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be cut off and piled. Material sixteen (16") inches in diameter or larger (measured at the large end) shall not be piled.
(b) Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than eight (8') feet in diameter and six (6') feet in height.
(c) All piled material shall be laid perpendicular to the slope. There shall be an adequate supply of finer fuels located within the interior of the pile to ensure ignition of larger fuels.
(d) The Purchaser shall place a minimum of a ten-foot by ten-foot (10' x 10') cover of black polyethylene plastic, four (4) MIL thickness, over the pile to provide a barrier from winter rains.
(e) Material extending more than two (2') feet beyond the general contour of the pile shall be flattened with a machine or cut off to allow for covering in a manner that permits the piles to shed water.
(f) PE shall be placed on top of the pile to ensure the center of the pile remains dry. PE shall be weighted with logging debris and shall be tied with combustible cord on all four (4) corners.

(7) Specifications for Pile Burning: Notwithstanding the provisions of Sec. 15 of this contract, the Government shall be responsible for disposing of slash created by the Purchaser's operations on Government lands except for assistance as required herein. The assumption by the Government of all obligations for the disposal of fire hazard under state law does not relieve the Purchaser of the obligations to perform the fire prevention hazard reduction and logging residue reduction measures required by this contract. In accordance with verbal or written instructions to be issued by the Authorized Officer at least fourteen (14) days in advance of the earliest date of required performance, the Purchaser shall, under the supervision of the Authorized Officer, assist with landing pile burning by furnishing, at the Purchasers expense, the services of personnel and equipment as follows:

(a) The Purchaser shall begin burning within fourteen (14) hours of notification by the Authorized Officer.
(b) The Purchaser shall dispose of removed polyethylene sheeting in accordance with any applicable Federal, State, and municipal laws. Removed polyethylene sheeting shall not be disposed of in burn piles.
(c) For each entry, the Purchaser may provide more personnel, equipment, and materials than indicated, but no less than the minimum requirements listed below. Minimum personnel, equipment and materials requirements are:

Landing and Machine Pile Burning:

1. One (1) English-speaking crew supervisor (minimum FFT2)
2. Five (5) person burn crew (minimum FFT2)
3. Six (6) drip torches and sufficient mixed fuel to complete all pile burning

(d) All listed personnel shall be qualified as a Type-II Firefighter (FFT2) or higher (National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, (PMS 310-1). All

personnel shall be physically fit, experienced, and fully capable of functioning as required. All personnel shall arrive at the project area with the following safety equipment: Lug-soled boots with a minimum of eight (8") inch uppers that provide ankle support; an approved hard hat; leather gloves; long-sleeve shirt and full-length trousers made of approved aramid fabric (Nomex or equivalent) and an approved fire shelter. All tools and equipment shall be in good 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.

(e) A minimum of eighty percent (80%) consumption of each pile is required. Stoking of piled material around the edges may be required to meet the 80% consumption requirement. Stoking may be accomplished by hand, or the Purchaser may be allowed to use heavy equipment (if onsite) to facilitate stoking or re-piling or residue during pile burn operations. If used, the heavy equipment shall not be allowed to operate off all-weather road surfaces.

(f) No mop-up is required of the Purchaser.

(g) Based on the time of year and sequence in which the harvest and treatment of the units is completed, burning may be required over multiple seasons. Purchaser provided personnel: equipment and materials requirements will remain the same as Section 44.e.7.(c) for each entry. Any change in the requirements must be approved in advance by the Authorized Officer.

(h) Time is of the essence in complying with burning provisions. In the event the Purchaser fails to provide the personnel, equipment and materials required herein, the Purchaser shall be responsible for all additional costs not limited to, wages and associated expenses of providing federal employees or others as a substitute labor force, the cost of providing substitute equipment, and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning, and new conditions necessitate additional site preparation work and/or use of additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

(8) Specifications for Hand Piling and Slashing, Lopping and Scattering (SLS): In accordance with oral, email, or written instructions to be issued by the Authorized Officer at least ten (10) days in advance of the earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or their designated representative, begin site preparation of the hand pile and SLS treatment areas. The Purchaser, at their own expense, shall provide the services or personnel and equipment as follows:

(a) All brush species one (1') foot or greater in height, damaged conifer reproduction or hardwoods, and hardwoods not marked or otherwise identified for retention, shall be completely severed from the stump. Brush species consist of shrubs with single or multiple stems originating at or near ground level and not normally reaching twenty (20') feet in height. Examples include (but are not limited to) vine maple, salmonberry, hazel, huckleberry, thimbleberry, manzanita, ocean spray, ceanothus species, broom species, blackberry species, and rhododendron.

(b) Stump heights shall not exceed four (4") inches measured on the uphill side of the stump.

(c) No live limbs shall be left on the stumps.

(d) Slashed hardwoods shall be bucked every four (4') feet and the limbs shall be completely severed from the bole.

(e) Except for felled or existing down trees identified by the Authorized Officer as coarse wood, conifers (including blowdown) and hardwoods felled but not yarded during harvest operations shall be bucked sufficiently to bring the bole down to the ground. All limbs shall be severed from the bole of the tree.

(f) All slashed vegetation and logging debris (brush, limbs, and boles) shall be sufficiently cut and scattered or piled in such a manner that will reduce the average slash depth in any given location to no more than twelve (12") inches and discontinuous to provide planting spots at ten (10') feet spacing.

(g) All slash. lop, scatter, and pile work shall be completed by October 15 for all areas where logging was completed on August 1 of each calendar year.
(h) All tops, broken pieces, limbs and debris between two (2) and six (6) inches in diameter and longer than three (3) feet in length will be piled. Piles will be located at least fifteen (15) feet from any reserve tree or snag and as far as possible from culverts and unit boundaries.
(i) Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be cut off and piled. Material nine (9) inches in diameter or larger (measured on the large end) shall not be piled.
(j) Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than six (6) feet in diameter and five (5) feet in height.
(k) All piled material shall be laid perpendicular to the slope. There shall be an adequate supply of finer fuels located within the interior of the pile to ensure ignition of the larger fuels.
(l) The Purchaser shall place black polyethylene plastic, four (4) MIL thickness, over the pile to provide a barrier from winter rains. Unless otherwise directed, the size of plastic shall not exceed 100 square feet (10 X 10).
(m) Plastic covering shall be placed on top of the pile to ensure the center of the pile remains dry and shall be weighted down with logging debris and tied down with combustible cord on all four corners.

(9) The Purchaser shall perform logging residue reduction and site preparation work on approximately one hundred twenty-seven (126) acres of harvest area located in Cutting Unit Nos. (1-7) as shown on Exhibit A.

(aa) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Slash, lop	$ 364.91
Scatter	$ 299.93
Hand pile & cover	$ 733.59
Hand pile burn	$ 708.92
Machine pile & cover	$ 708.11
Machine pile burn	$ 135.00
Landing pile & cover	$ 5.29
Landing pile burn	$ 8.76
Hand Pile Only	$502.42

(bb) The following treatments were assumed for appraisal purposes on this contract:

Appraised Treatment	Acres	Cost/ Acre	Total Cost per Treatment
Slash, lop	74	$ 364.91	$ 27,002.80
Scatter	33	$ 299.93	$ 9,897.60
Hand pile & cover	29	$ 733.59	$ 21,274.10
Hand pile burn	29	$ 708.92	$ 20,558.46
Machine pile & cover	52	$ 708.11	$ 36,821.72
Machine pile burn	52	$ 135.00	$ 7,019.57
Landing pile & cover	126	$ 5.29	$ 666.00

Landing pile burn	126	$ 8.76	$ 1,102.82
Hand Pile Only	12	$ 502.42	$ 6,029.00
Total Appraised Cost			$ 130,372.07

(cc) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 44.e.9(bb) differs from $ 130,372.07 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 44.e.9(bb).

(dd) Landing pile construction, covering, and burning will be done in accordance with Section 44.e.4 and Section 44.e.5, machine pile construction, covering, and burning will be done in accordance with Section 44.e.6 and Section 44.e.7. Hand pile construction, covering, and burning will be done in accordance with Section 44.e.8 and Section 44.e.7

f. Optional Scale Check of Lump Sum Sales

(1) The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends, and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed.

(2) In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows. If the entire sale is check scaled by yard scale, the purchase price of this contract shall be reduced by $3,162.75. In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of $3,162.75 which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Eastside Scribner Scaling Rules by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

Exhibit F
Sheet 1 of 1

SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXIOUS WEEDS AND PORT-ORFORD CEDAR ROOT DISEASE

Vehicle and Equipment Cleaning:

(1) Cleaning shall consist of the removal of soil and debris by washing with a high-pressure hose or steam cleaning. Cleaning and inspection sites outside of the contract area shall be agreed to by Purchaser and BLM. All petroleum product residues shall be contained at wash sites and dealt with in accordance with DEQ standards. Purchaser shall provide an approved plan for the cleaning station that demonstrates that the station meets all DEQ and water quality regulations. All necessary permits shall be obtained by the Purchaser.
(2) All equipment parts shall be cleaned as designated by the Authorized Officer, including removal of tractor belly plates in accordance with Sec. 1 above.

EXHIBIT I

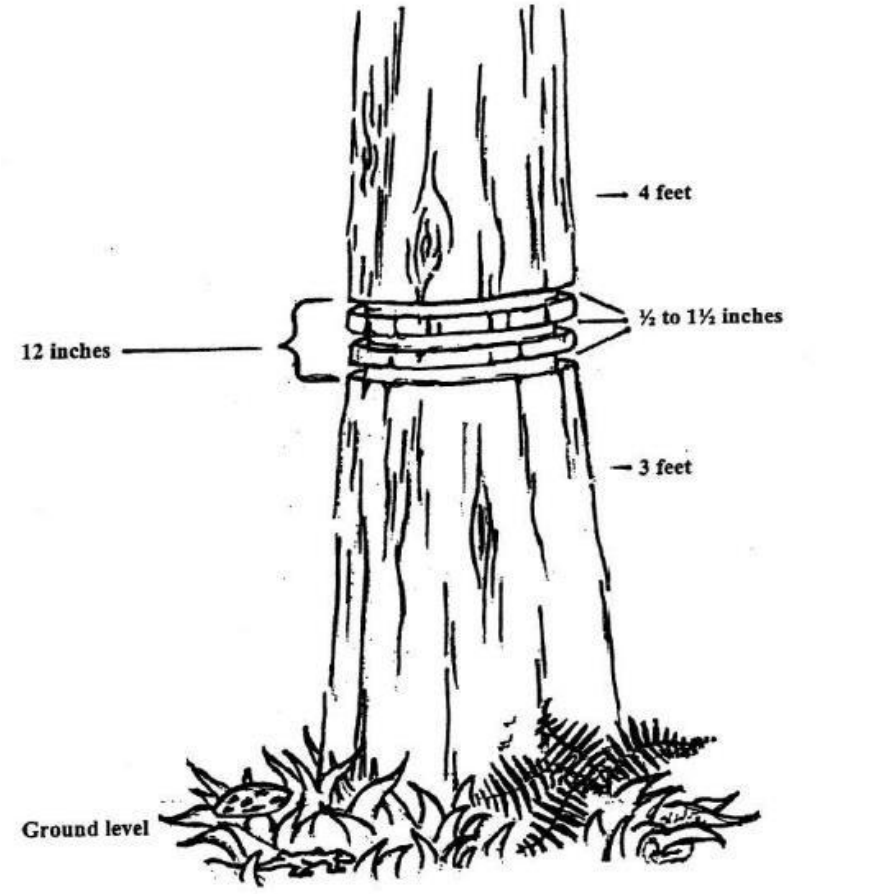
SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

(1) Cut around the tree. Each cut must connect or extend at least three-fourths (¾) of the circumference, around the tree and penetrate through the cambium layer into the wood at least one half (½") inch, but not more than one and half (1 ½") inches. The distance between the top cut and the bottom cut shall not exceed twelve (12") inches. Tress shall be girdled between three (3') feet and four (4') feet above ground level measured from the uphill side of the tree.

Illustration 1- Basal Girdling

Basal-Girdling example: make three (3) parallel unbroken cuts around the tree. The distance between the top and bottom of the cut shall not exceed twelve inches. Cuts must penetrate at least 1/2 inch, but not more than 1 1/2 inches into the wood of the tree. Trees shall be girdled between 3 and 4 feet from the ground.



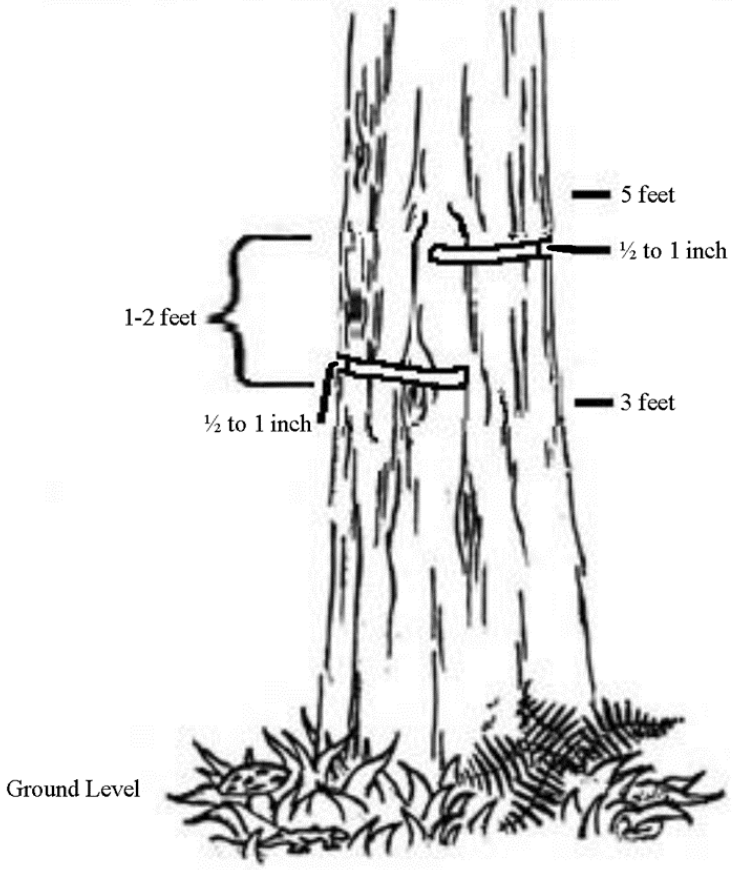
SPECIFICATIONS FOR BASAL GIRDLING

GENERAL:

(1) Cut ½ to ¾ circumference around the tree and penetrate through the cambium layer into the wood at least ½ inch, but not more than 1 inch. The distance between the top and bottom cut shall be at least 1 foot apart but shall not exceed 2 feet and on opposing sides of the tree bole. Trees shall be girdled between three (3) and five (5) feet above ground level measured from the uphill side of the tree.

Illustration 1- Opposing Half-Girdle

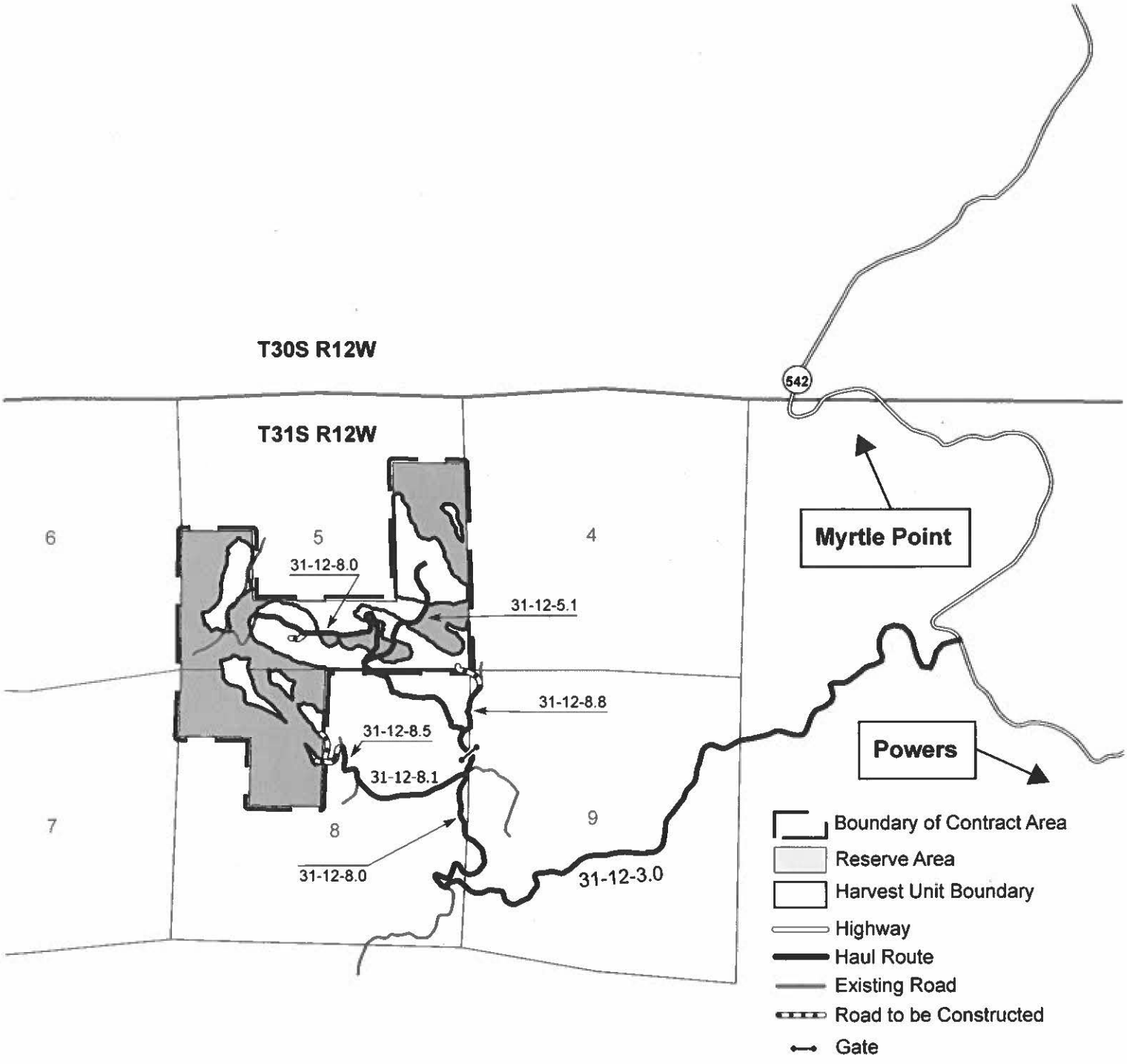
Opposing Half-Girdle example: make two (2) 1/2 to 3/4 circumference girdles 1-2 feet apart on opposing sides of the tree. Cuts must penetrate at least 1/2 inch, but not more than 1 inch into the wood of the tree. The tree shall be girdled between 3 and 5 feet from the ground.



TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T. 31 S., R. 12 W., Secs. 5 & 8 Will. Mer.

SALE NO. ORC04-TS-2027.0031
EXHIBIT A-1

RYE ROWLAND RYE



Miles
0 0.25 0.5 1
Scale 1 inch = 1/2 mile

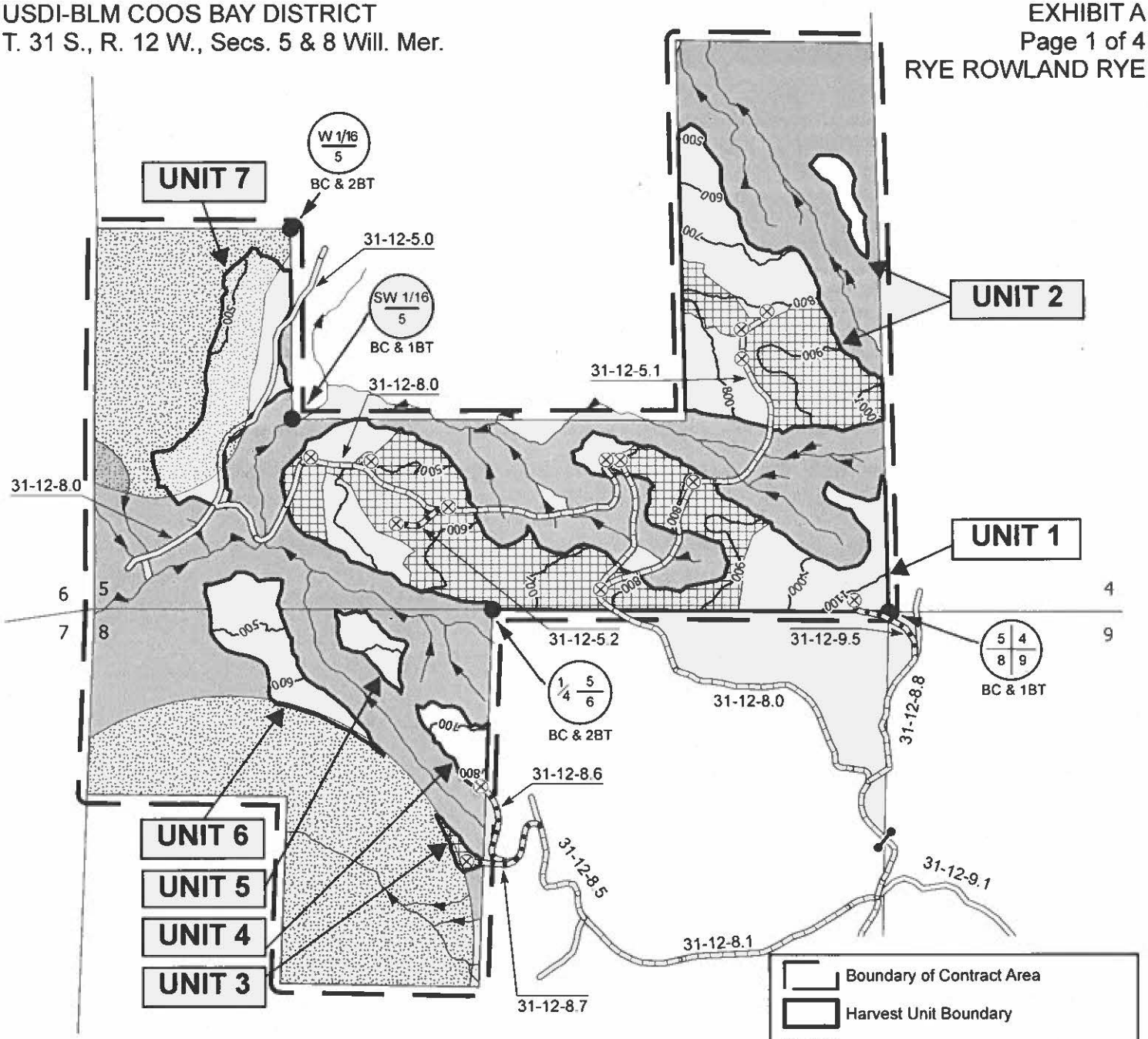
N

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T. 31 S., R. 12 W., Secs. 5 & 8 Will. Mer.

SALE NO. ORC04-TS-2027.0031
EXHIBIT A

RYE ROWLAND RYE



HARVEST AREA	
UNIT 1	57 ACRES
UNIT 2	36 ACRES
UNIT 3	1 ACRES
UNIT 4	4 ACRES
UNIT 5	3 ACRES
UNIT 6	9 ACRES
UNIT 7	16 ACRES
Total	126 ACRES
Total Reserve Area	267 ACRES
Total Contract Area	393 ACRES

N

0 500 1,000 2,000 Feet

Scale 1 inch = 1,000 feet

- Boundary of Contract Area
- Harvest Unit Boundary
- Ground-based Yarding Area (52 acres)
- Reserve Area
- Seasonal Timing Restriction (MM)
- Existing Road
- Road to be Renovated
- Road to be Constructed
- Gate
- 100' Contour
- Stream Channel
- Proposed Landing
- Corner Found
- Basal Area Retention Group

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

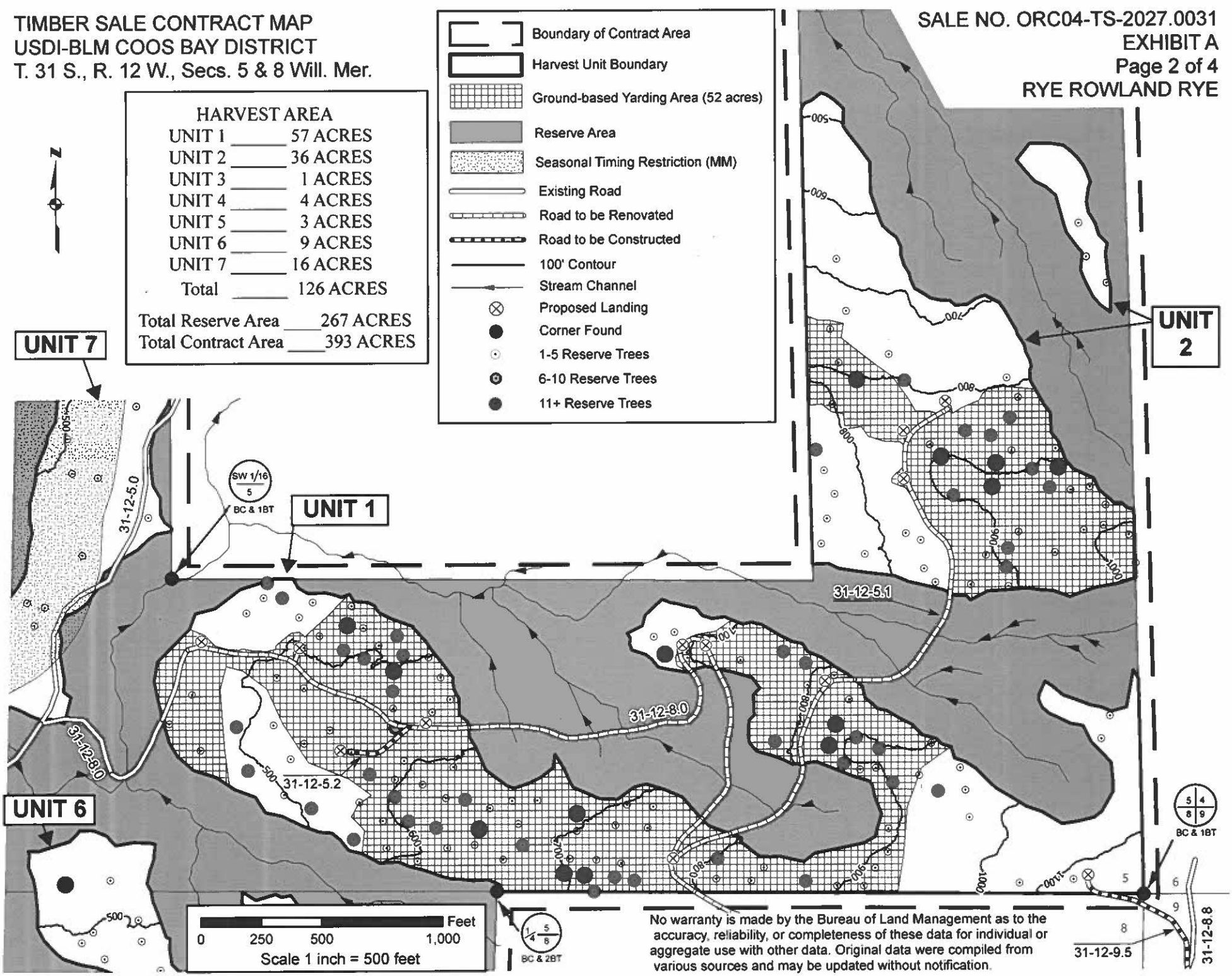
TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T. 31 S., R. 12 W., Secs. 5 & 8 Will. Mer.

SALE NO. ORC04-TS-2027.0031
EXHIBIT A

RYE ROWLAND RYE

HARVEST AREA	
UNIT 1	57 ACRES
UNIT 2	36 ACRES
UNIT 3	1 ACRES
UNIT 4	4 ACRES
UNIT 5	3 ACRES
UNIT 6	9 ACRES
UNIT 7	16 ACRES
Total	126 ACRES
Total Reserve Area	267 ACRES
Total Contract Area	393 ACRES

- Boundary of Contract Area
- Harvest Unit Boundary
- Ground-based Yarding Area (52 acres)
- Reserve Area
- Seasonal Timing Restriction (MM)
- Existing Road
- Road to be Renovated
- Road to be Constructed
- 100' Contour
- Stream Channel
- Proposed Landing
- Corner Found
- 1-5 Reserve Trees
- 6-10 Reserve Trees
- 11+ Reserve Trees

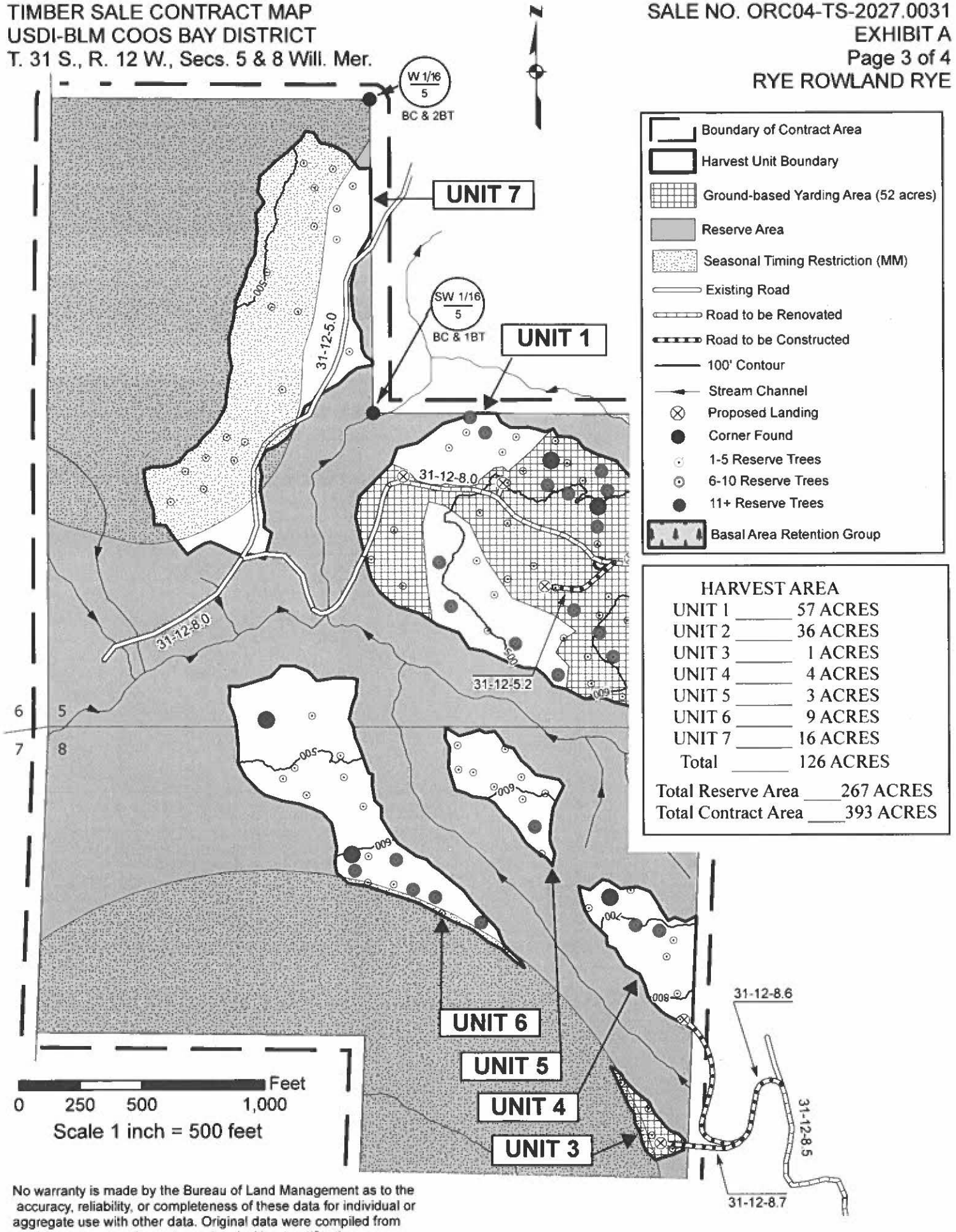


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TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T. 31 S., R. 12 W., Secs. 5 & 8 Will. Mer.

SALE NO. ORC04-TS-2027.0031
EXHIBIT A

RYE ROWLAND RYE



Boundary of Contract Area
Harvest Unit Boundary
Ground-based Yarding Area (52 acres)
Reserve Area
Seasonal Timing Restriction (MM)
Existing Road
Road to be Renovated
Road to be Constructed
100' Contour
Stream Channel
Proposed Landing
Corner Found
1-5 Reserve Trees
6-10 Reserve Trees
11+ Reserve Trees
Basal Area Retention Group

HARVEST AREA

UNIT 1	57 ACRES
UNIT 2	36 ACRES
UNIT 3	1 ACRES
UNIT 4	4 ACRES
UNIT 5	3 ACRES
UNIT 6	9 ACRES
UNIT 7	16 ACRES
Total	126 ACRES

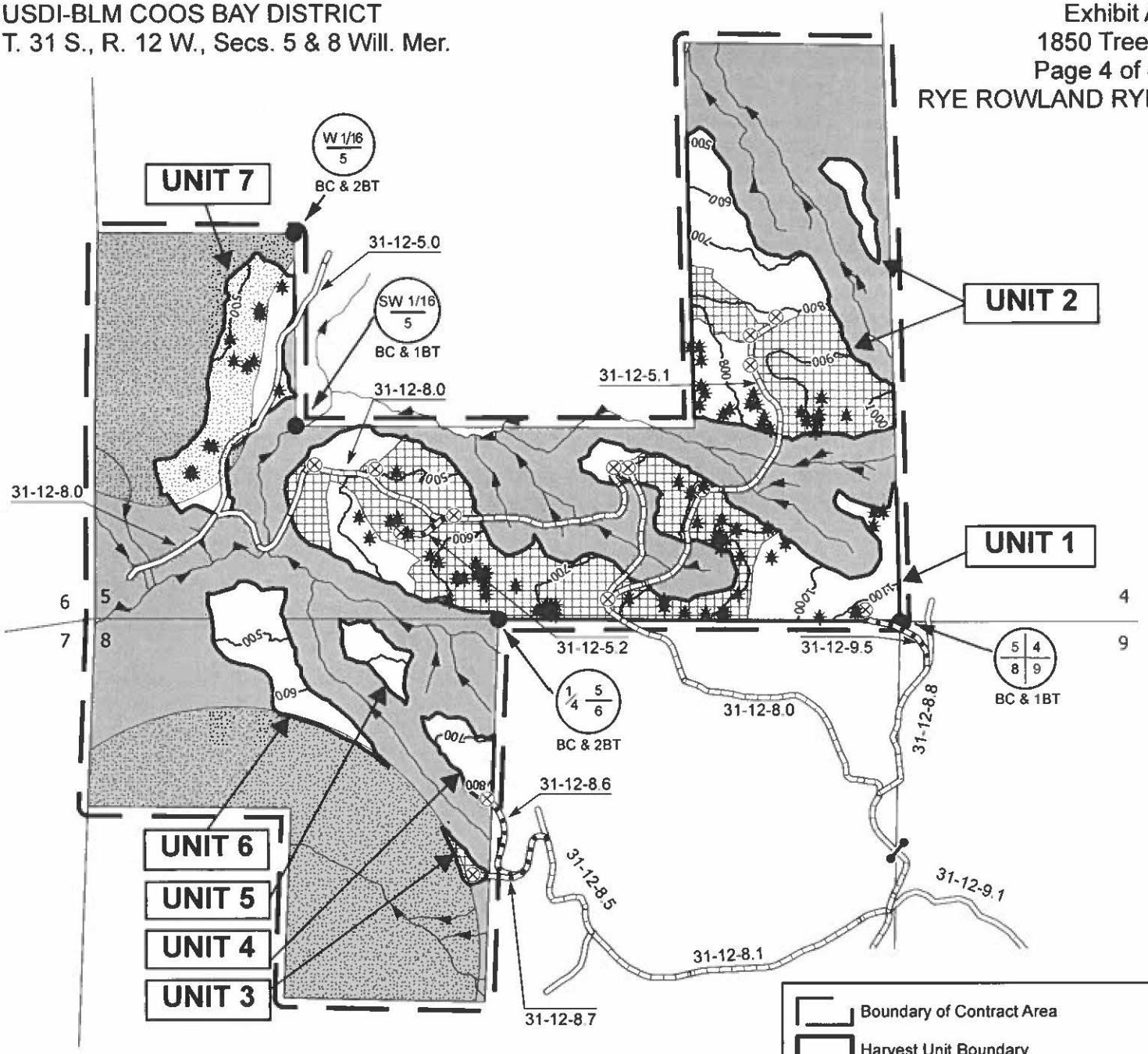
Total Reserve Area 267 ACRES
Total Contract Area 393 ACRES

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

TIMBER SALE CONTRACT MAP
USDI-BLM COOS BAY DISTRICT
T. 31 S., R. 12 W., Secs. 5 & 8 Will. Mer.

SALE NO. ORC04-TS-2027.0031
Exhibit A
1850 Trees

RYE ROWLAND RYE



HARVEST AREA	
UNIT 1	57 ACRES
UNIT 2	36 ACRES
UNIT 3	1 ACRES
UNIT 4	4 ACRES
UNIT 5	3 ACRES
UNIT 6	9 ACRES
UNIT 7	16 ACRES
Total	126 ACRES
Total Reserve Area	267 ACRES
Total Contract Area	393 ACRES

N

0 500 1,000 2,000 Feet

Scale 1 inch = 1,000 feet

- Boundary of Contract Area
- Harvest Unit Boundary
- Ground-based Yarding Area (52 acres)
- Reserve Area
- Seasonal Timing Restriction (MM)
- Existing Road
- Road to be Renovated
- Road to be Constructed
- Gate
- 100' Contour
- Stream Channel
- Proposed Landing
- Corner Found
- ≥40" DBH and 1850 Reserve Tree
- Reserve Area - Basal Area Retention

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract No: ORC04-TS-2027.0031

Sale Name
RYE ROWLAND RYE

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. 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 in MBF		PRICE PER UNIT		AMOUNT OF ESTIMATED VOLUME OR QUANTITY x UNIT PRICE
Douglas-fir	3,332	MBF	$142.80		$475,809.60
Grand Fir	784	MBF	$45.10		$35,358.40
western hemlock	17	MBF	$44.70		$759.90
Port-Orford-cedar	30	MBF	$34.60		$1,038.00
Red Alder	15	MBF	$42.50		$637.50
Totals	4178	MBF			$513,603.40

The apportionment of the total purchase price is as follows: Biomass $778.20

Total Contract Appraised Value $514,381.60

Approx. No. of Trees	UNIT NO. 1	EST. NET MBF VOL.			
4507	Douglas-fir	1,507	$142.80		$215,199.60
59	western hemlock	8	$44.70		$357.60
575	Grand Fir	354	$45.10		$15,965.40
38	Port-Orford-cedar	13	$34.60		$449.80
39	Red Alder	7.1	$42.50		$301.75
5218	TOTALS	1889.1			$232,274.15

57 Acres = $4,074.99 /Ac.

Unit Total $232,274.15

Approx. No. of Trees	UNIT NO. 2	EST. NET MBF VOL.			
2846	Douglas-fir	952	$142.80		$135,945.60
37	western hemlock	5	$44.70		$223.50
362	Grand Fir	224	$45.10		$10,102.40
25	Port-Orford-cedar	8	$34.60		$276.80
25	Red Alder	4	$42.50		$170.00
3295	TOTALS	1193			$146,718.30

13006.57

36 Acres = $4,075.51 /Ac.

Unit Total $146,718.30

Approx. No. of Trees	UNIT NO. 6	EST. NET MBF VOL.			
712	Douglas-fir	238	$142.80		$33,986.40
9	western hemlock	0.5	$44.70		$22.35
91	Grand Fir	56	$45.10		$2,525.60
6	Port-Orford-cedar	2	$34.60		$69.20
6	Red Alder	1	$42.50		$42.50
824	TOTALS	297.5			$34,120.45

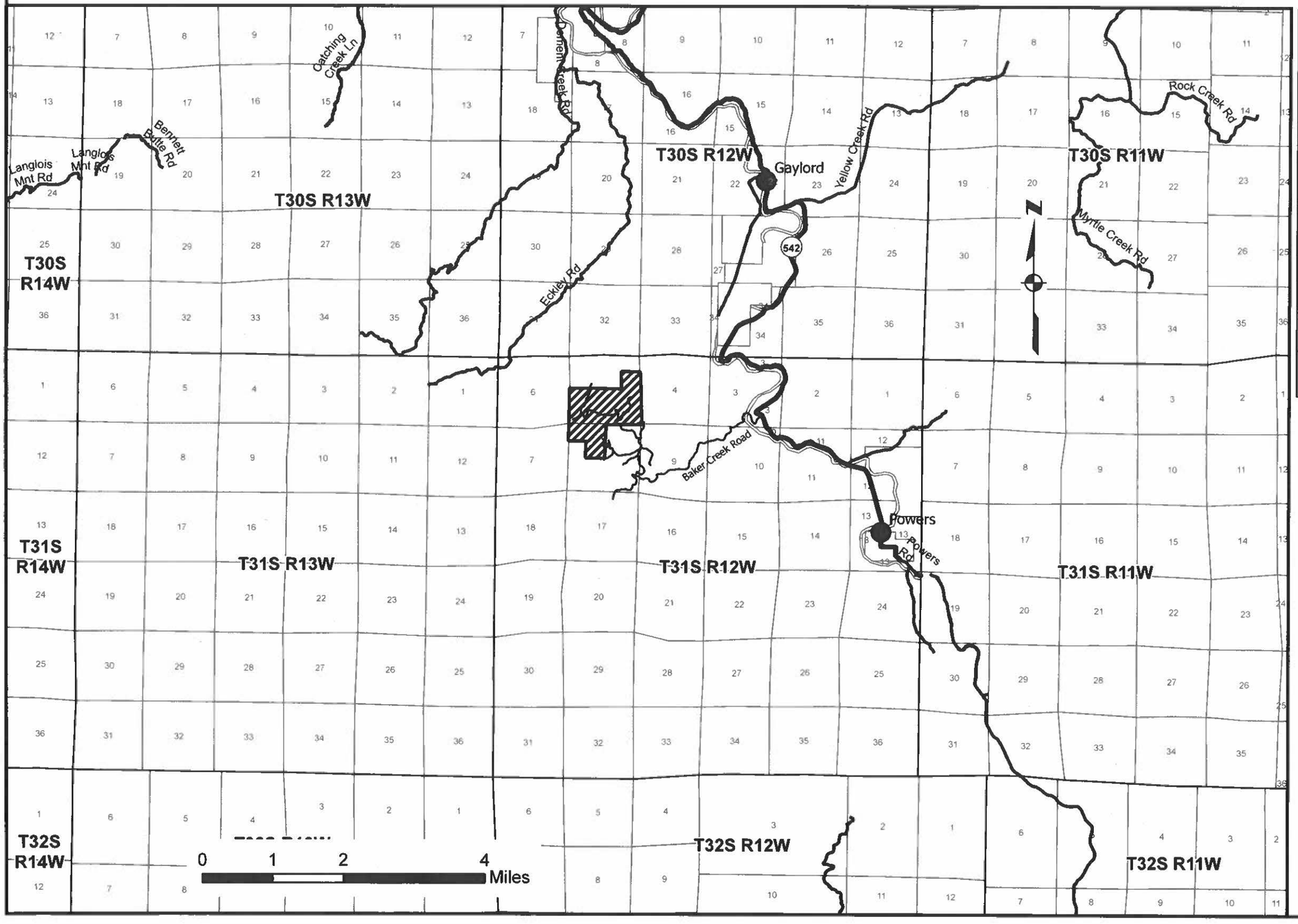
9	Acres =	$3,791.16	/Ac.	
		Unit Total		$34,120.45

Approx. No. of Trees	UNIT NO. 7	EST. NET MBF VOL.			
1265	Douglas-fir	423	$142.80		$60,404.40
17	western hemlock	2	$44.70		$89.40
161	Grand Fir	100	$45.10		$4,510.00
11	Port-Orford-cedar	4	$34.60		$138.40
11	Red Alder	2	$42.50		$85.00
1465	TOTALS	531			$60,717.20

16	Acres =	$3,794.83	/Ac.	
		Unit Total		$60,717.20

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT C

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT
MYRTLEWOOD FIELD OFFICE



SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION MAP
3-4	TYPICAL CROSS SECTION DETAILS
5-6	ESTIMATE OF QUANTITY
7	CULVERT INSTALLATION DETAILS
8	ROADSIDE BRUSHING DETAIL
9-11	SPECIAL PROVISIONS
12-22	ROADS WORKLIST
23-27	CONSTRUCTION DETAILS
28-68	TIMBER SALE ROAD SPECIFICATIONS

LEGEND

PROJECT AREA

ALWAYS THINK SAFETY

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

TITLE SHEET

PREPARED: J. AGUILAR
REVIEWED: L. MURPHY
APPROVED: M. RUSSELL

DRAWN: JAA
SCALE: AS SHOWN
DATE 10/2026
SHEET 1 OF 68

EXHIBIT C

- Rye Rowland Rye Timber Sale Units
- BLM Administered Land
- Private or Other Lands
- Highway
- Existing Road
- Road to be Constructed
- Road to be Renovated
- Road Segment Break
- Gate
- Bridge
- ⊗ Proposed Landing
- MP Milepost
- STA Station

T30S R12W

T31S R12W

Scotley Rd

JUNCTION STA 26+50 STA 0+00

STA 25+50

STA 36+30

STA 32+50

STA 10+70

STA 10+00

STA 11+50

STA 26+50

STA 24+70

STA 23+00

31-12-5.2 STA 3+25

31-12-8.0 g

31-12-8.0 f

31-12-9.5 STA 6+25

JUNCTION MP 1.31 STA 0+00

JUNCTION MP 0.15 STA 0+00

MP 1.29

31-12-8.0 C-D

JUNCTION MP 0.19 STA 0+00

JUNCTION STA 3+75 STA 0+00

31-12-8.6 STA 10+70

31-12-8.7 STA 3+25

JUNCTION MP 0.83 MP 0.00

JUNCTION MP 0.42 MP 0.00

MP 0.67

JUNCTION MP 0.65 MP 0.00

MP 0.53

MP 0.28

31-12-8.1A

31-12-8.2

JUNCTION MP 2.61 MP 0.00

MP 0.59

JUNCTION MP 15.45 MP 0.00

31-12-3.0 A1

31-12-3.0 A2

31-12-10.0

31-12-17.6

31-12-17.5 B

31-12-17.5A

31-12-17.3

31-12-3.0 B

ALWAYS THINK SAFETY

US Feet

0 750 1,500 3,000

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT C WORK LOCATION MAP

PREPARED:	J. AGUILAR
REVIEWED:	L. MURPHY
APPROVED:	M. RUSSELL
DRAWN: JAA	SCALE: AS SHOWN
DATE 10/2026	SHEET 2 OF 68

ROAD NUMBER **		FROM MILEPOST/ STATION	TO MILEPOST/ STATION	LENGTH MILES/ STATIONS	TYPICAL SECTION TYPE	ROAD WIDTH (*1 & 5)		CLEARING WIDTH		BRUSHING WIDTH		SURFACING (*3)									REMARKS
						SUBGRADE	DITCH	BEYOND		EXISTING ROADS		BASE COURSE					SURFACE COURSE				
								TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type (*2)	Grading		Min Top Width	Comp. Depth	Type (*2)	Grading	
31-12-3.0 Seg. A1	R	0.00	0.59	0.59	5	20'	3'			10'	10'										VARIED BST SURFACING
31-12-3.0 Seg. A2	R	0.59	2.61	2.02	5	20'	3'			10'	10'										3% CROWNED W/ DITCH
31-12-5.1	R	0+00	26+60	26.60	4	16'	3'			10'	10'						12'	4"	D	3-0"	3% CROWNED W/ DITCH
31-12-5.2	C	0+00	3+25	3.25	1	16'	0'	10	5'			NATIVE SURFACE									3% OUTSLOPED
31-12-8.0 Seg. A	R	0.00	0.53	0.53	5	16'	3'			10'	10'										3% CROWNED W/ DITCH
31-12-8.0 Seg. B	R	0.53	0.67	0.14	5	16'	3'			10'	10'										3% CROWNED W/ DITCH
31-12-8.0 Seg. C-E por.	R	0.67	1.31	0.64	4	16'	3'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST									3% CROWNED W/ DITCH
31-12-8.0 Seg. E por.	R	0+00	36+30	36.30	4	16'	3'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST									3% CROWNED W/ DITCH
31-12-8.1 Seg. A-B	R	0.00	0.42	0.42	5	16'	3'			10'	10'										3% CROWNED W/ DITCH
31-12-8.5	R	0.00	0.15	0.15		16'	0'			10'	10'	APPLY SURFACE AND SPOT ROCK AS SPECIFIED IN ROADS WORKLIST									3% OUTSLOPED

** RENOVATION = R
IMPROVEMENT = I
CONSTRUCTION = C

*NOTES

1. EXTRA SUBGRADE WIDTHS

FILL WIDENING:
- ADD 1 FT. TO EACH SHOULDER FOR FILLS OF 1–6 FT. IN HEIGHT
- ADD 2 FT. TO EACH SHOULDER FOR FILLS OF 6–10 FT. IN HEIGHT

CURVE WIDENING: WIDEN THE INSIDE SHOULDER OF ALL CURVES AS SHOWN ON THE PLANS OR AS FOLLOWS:
- ADD 4 FT. FOR CURVES WITH 90'–120' RADIUS
- ADD 5 FT. FOR CURVES WITH 60'–90' RADIUS

CUT SLOPES AND FILL SLOPES AS FOLLOWS OR AS SHOWN ON PLANS:

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	3/4:1	1 1/2:1
SOFT ROCK & SHALE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

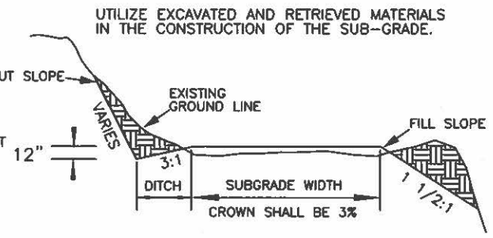
2. SURFACING TYPE
   A. PIT RUN ROCK MATERIAL.
   B. GRID ROLLED ROCK MATERIAL
   C. SCREENED ROCK MATERIAL.
   D. CRUSHED ROCK MATERIAL.
   E. CLASS 'C' ASPHALT MIX.

3. SURFACING
   A. TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED. SURFACE ALL ROAD STATIONING REQUIRING SURFACING AS LISTED OR AS SHOWN ON PLANS.

4. DITCHES
   A. 2:1 INSLOPE FROM SUBGRADE. DITCH OUTSLOPE WILL BE AS SPECIFIED IN NOTE 1 ABOVE. DEPTH MAY BE EXCEEDED TO OBTAIN REQUIRED DRAINAGE.

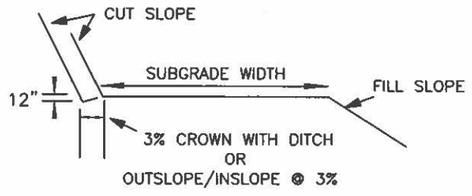
5. TURNOUTS
   A. WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS.
   B. INTERVISIBLE OR LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS AND/OR NARRATIVE.

TYPICAL GRADING SECTION



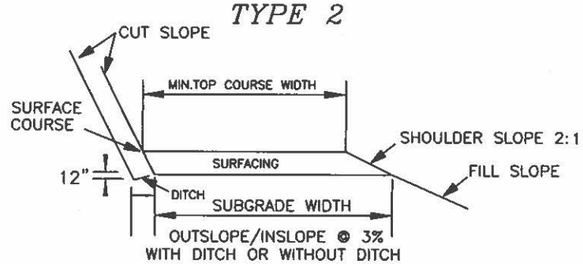
TYPICAL DIRT SECTION

TYPE 1



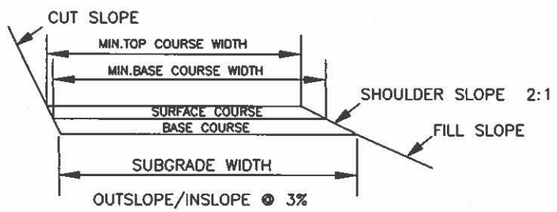
TYPICAL SURFACING SECTION

TYPE 2



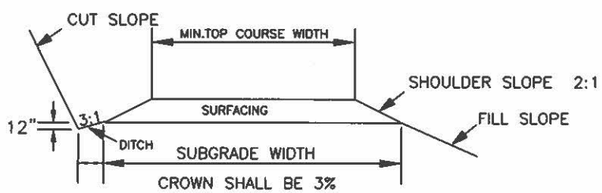
TYPICAL SURFACING SECTION

TYPE 3



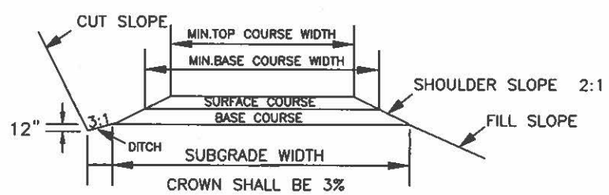
TYPICAL SURFACING SECTION

TYPE 4



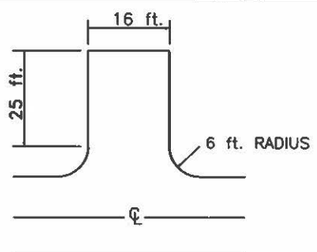
TYPICAL SURFACING SECTION

TYPE 5

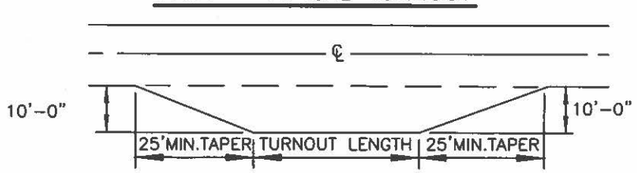


NOTE: FOR TYPE 1–3 TYPICAL SECTIONS, OUTSLOPING NOT TO BE USED WHERE GRADE EXCEEDS 6% (NEW CONSTRUCTION).

PLAN – TYPICAL TRUCK TURNAROUND



PLAN – TYPICAL TURNOUT



ALWAYS THINK SAFETY

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT – OREGON

ORC04–TS–2027.0031
RYE ROWLAND RYE
TYPICAL CROSS SECTION DETAILS

PREPARED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 10/2026	SHEET 3 OF 68

ROAD NUMBER **		FROM MILEPOST/ STATION	TO MILEPOST/ STATION	LENGTH MILES/ STATIONS	TYPICAL SECTION TYPE	ROAD WIDTH (*1 & 5)		CLEARING WIDTH		BRUSHING WIDTH		SURFACING (*3)								REMARKS
						SUBGRADE	DITCH	BEYOND		EXISTING ROADS		BASE COURSE					SURFACE COURSE			
								TOP CUT	TOE FILL	L	R	Min Top Width	Comp. Depth	Type (*2)	Grading		Min Top Width	Comp. Depth	Type (*2)	Grading	
31-12-8.6	C	0+00	10+70	10.70		16'	3'	10'	5'			NATIVE SURFACE									3% CROWNED W/ DITCH
31-12-8.7	C	0+00	3+25	3.25		16'	0'	10'	5'			NATIVE SURFACE									3% OUTSLOPED
31-12-8.8	R	0.00	0.19	0.19		16'	0'			10'	10'	NATIVE SURFACE									3% OUTSLOPED
31-12-9.5	C	0+00	6+25	6.25		16'	3'	10'	5'			NATIVE SURFACE									3% CROWNED W/ DITCH

** RENOVATION = R
IMPROVEMENT = I
CONSTRUCTION = C

*NOTES

1. EXTRA SUBGRADE WIDTHS

   FILL WIDENING:
   - ADD 1 FT. TO EACH SHOULDER FOR FILLS OF 1–6 FT. IN HEIGHT
   - ADD 2 FT. TO EACH SHOULDER FOR FILLS OF 6–10 FT. IN HEIGHT

   CURVE WIDENING: WIDEN THE INSIDE SHOULDER OF ALL CURVES AS SHOWN ON THE PLANS OR AS FOLLOWS:
   - ADD 4 FT. FOR CURVES WITH 90'–120' RADIUS
   - ADD 5 FT. FOR CURVES WITH 60'–90' RADIUS

CUT SLOPES AND FILL SLOPES AS FOLLOWS OR AS SHOWN ON PLANS:

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	3/4:1	1 1/2:1
SOFT ROCK & SHALE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.

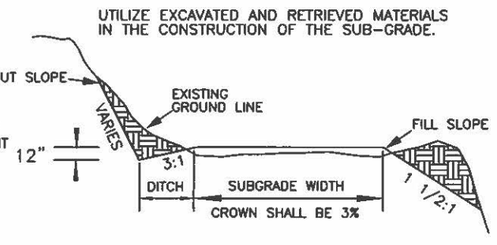
2. SURFACING TYPE
   A. PIT RUN ROCK MATERIAL.
   B. GRID ROLLED ROCK MATERIAL
   C. SCREENED ROCK MATERIAL.
   D. CRUSHED ROCK MATERIAL.
   E. CLASS 'C' ASPHALT MIX.

3. SURFACING
   A. TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED. SURFACE ALL ROAD STATIONING REQUIRING SURFACING AS LISTED OR AS SHOWN ON PLANS.

4. DITCHES
   A. 2:1 INSLOPE FROM SUBGRADE. DITCH OUTSLOPE WILL BE AS SPECIFIED IN NOTE 1 ABOVE. DEPTH MAY BE EXCEEDED TO OBTAIN REQUIRED DRAINAGE.

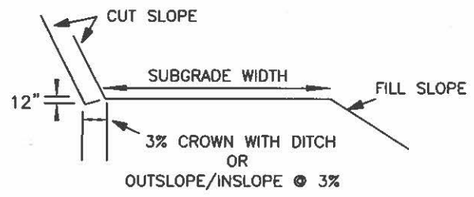
5. TURNOUTS
   A. WIDTH 10 FT. IN ADDITION TO SUBGRADE WIDTH, OR AS SHOWN ON THE PLANS.
   B. INTERVISIBLE OR LOCATED APPROXIMATELY AS SHOWN ON THE ROAD PLANS AND/OR NARRATIVE.

TYPICAL GRADING SECTION



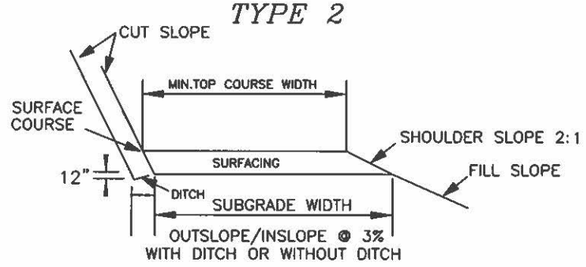
TYPICAL DIRT SECTION

TYPE 1



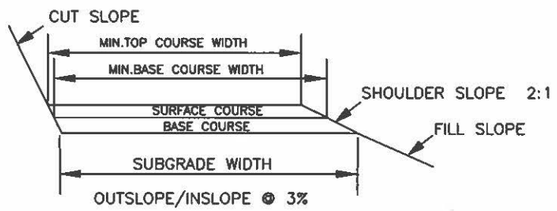
TYPICAL SURFACING SECTION

TYPE 2



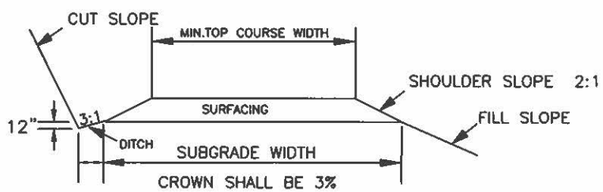
TYPICAL SURFACING SECTION

TYPE 3



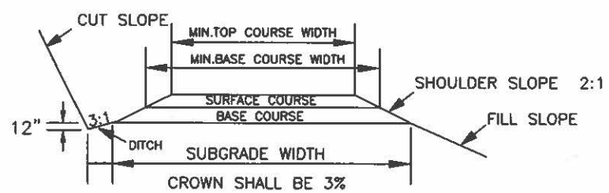
TYPICAL SURFACING SECTION

TYPE 4



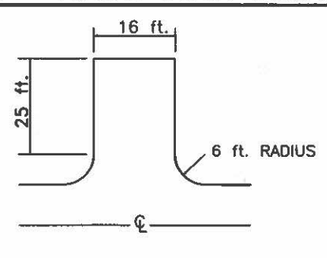
TYPICAL SURFACING SECTION

TYPE 5

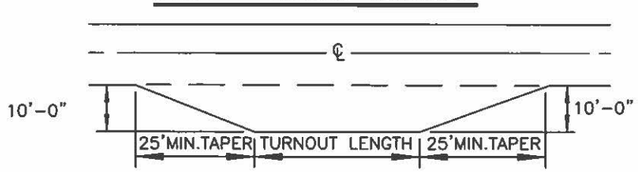


NOTE: FOR TYPE 1–3 TYPICAL SECTIONS, OUTSLOPING NOT TO BE USED WHERE GRADE EXCEEDS 6% (NEW CONSTRUCTION).

PLAN – TYPICAL TRUCK TURNAROUND



PLAN – TYPICAL TURNOUT



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U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT – OREGON

ORC04–TS–2027.0031
RYE ROWLAND RYE
TYPICAL CROSS SECTION DETAILS

PREPARED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 10/2026	SHEET 4 OF 68

ROAD NUMBER	NEW CONSTRUCTION	RENOVATION	IMPROVEMENT	NEW FEATURE CONSTRUCTION	SLASH TREATMENT (*4, 5)	GRUBBING (*4, 5)	ROADSIDE BRUSHING (*6)	RENOVATION EARTHWORK (*8, 9)	EXCAVATION & EMBANKMENT						CPP (*1, 3)				DOWNSPOUTS (*3)				DOWNSPOUT ANCHORS
									COMMON (*7)	RIPPABLE ROCK	ROCK CUT	FILL (*7)	SHORT HAUL 100-500' (*10)	LONG HAUL 500'+ (*10)	18"	24"	30"	36"	FULL ROUND				
																			CPP		CMP		
																			18"	24"	18"	24"	
SECTION NO.	300	500	500	300	200	200	2100	500	300	300	300	300	300	300	400	400	400	400	400	400	400	400	400
UNITS	STA.	STA.	STA.	EA.	AC.	AC.	AC.	CY	C.Y.	C.Y.	C.Y.	C.Y.	STA.YDS.	YD.MI.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.
31-12-3.0		137.81					3.9	130															
31-12-5.1		26.60		1	0.1	0.1	1.2	80							240	90	40	60					
31-12-5.2	3.25				0.4	0.4			800				200										
31-12-8.0		105.46		3	0.3	0.3	4.9	775								600	120	40					
31-12-8.1		22.18					1.0	60															
31-12-8.5		7.92					0.4																
31-12-8.6	10.70				1.0	1.0			850				200		60	40							
31-12-8.7	3.25				0.4	0.4			200				50										
31-12-8.8		10.03					0.5																
31-12-9.5	6.25				1.0	1.0			1350				400										
PROJECT TOTALS	23.45	310.00		4	3.2	3.2	11.9	1045	3200				850		300	730	160	100					

*1 CPP – CORRUGATED POLYETHYLENE PIPE
*2 CMP – CORRUGATED METAL PIPE
*3 SEE CULVERT DEATAILS SHEET
*4 IF NOT SHOWN, MAY BE INCLUDED IN EXCAVATION AS TIME & EQUIPMENT.
*5 MAY BE ASSOCIATED WITH NEW FEATURE CONSTRUCTION AND/OR TREE REMOVAL FROM EXISTING ROADWAY (HEAVY RENO).
*6 ROAD BRUSHING ASSOCIATED WITH RENOVATION ("HEAVY"), MAY BE INCLUDED IN CLEARING, GRUBBING, & SLASH TREATMENT.
*7 VOLUMES ARE ADJUSTED EMBANKMENT.
*8 CUT SLOPE & FILL FAILURES, DITCH & CATCH BASIN CLEANING (COST ACCOUNTED FOR ANY ASSOCIATED ENDHAUL OF GENERATED MATERIAL).
*9 MAY BE INCLUDED IN EXCAVATION (SECTION 300).
*10 LOOSE VOLUME.

ESTIMATE OF QUANTITIES**

** FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.

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U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT – OREGON

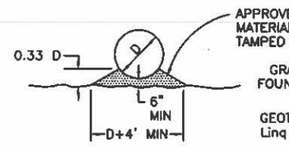
ORC04-TS-2027.0031
RYE ROWLAND RYE
ESTIMATE OF QUANTITIES

PREPARED J. AGUILAR
REVIEWED L. MURPHY
APPROVED M. RUSSELL

DRAWN JAA
DATE 10/2026

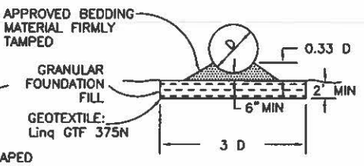
BEDDING OF CULVERTS

BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT



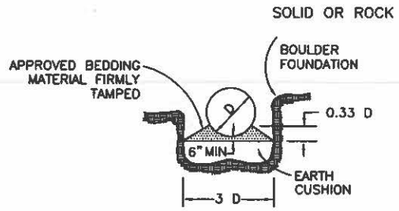
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION



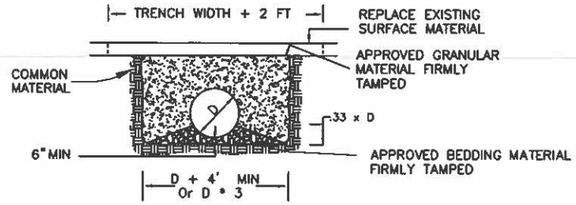
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS IN SOLID ROCK OR BOULDER FOUNDATION



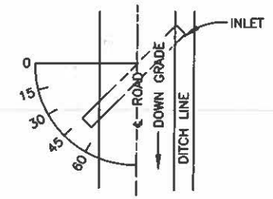
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAINTAIN 10" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON EXISTING AGGREGATE SURFACED ROADS



BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BACKFILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL.

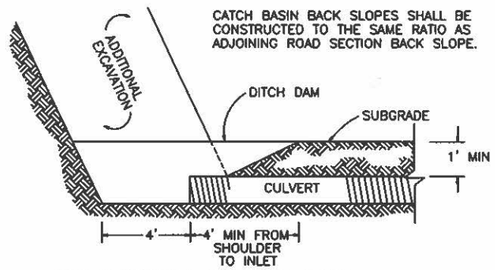
SKEW DIAGRAM



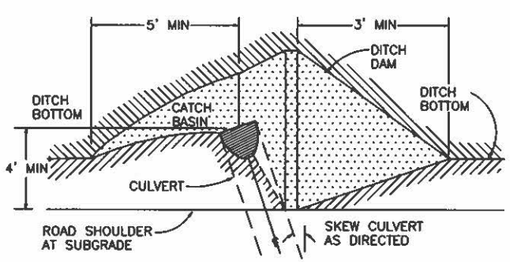
CULVERTS SHALL BE SKEWED DOWN GRADE 45 DEGREES AS MEASURED FROM THE PERPENDICULAR TO ROAD CENTERLINE UNLESS OTHERWISE SPECIFIED.

CULVERTS SHALL HAVE A GRADIENT OF 2%-4% GREATER THAN ADJACENT ROAD GRADE UNLESS OTHERWISE SPECIFIED.

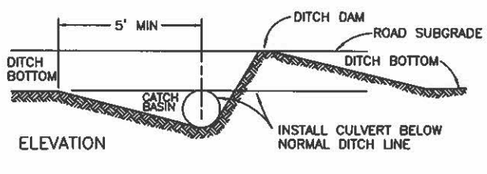
CATCH BASIN



CROSS SECTION AT CATCH BASIN

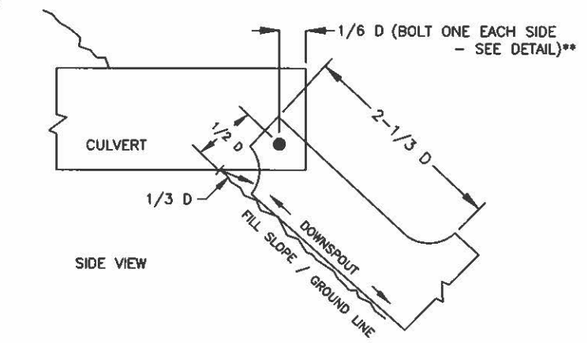


PLAN VIEW



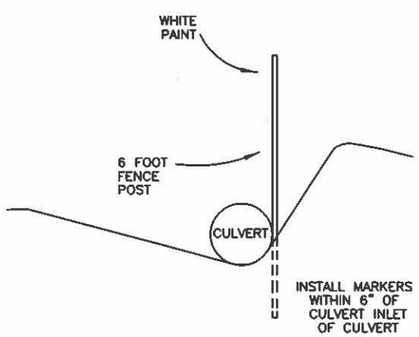
ELEVATION

USE "ADJUSTABLE ELBOW' FOR DOWNSPUTS

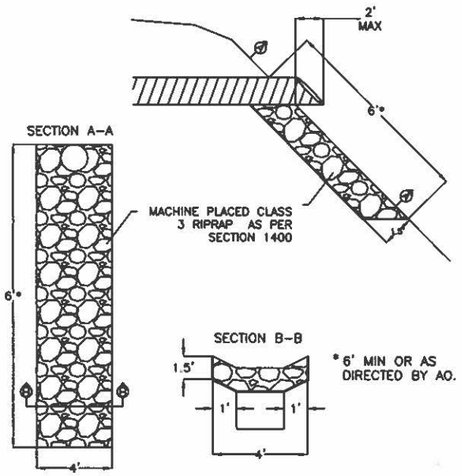


SIDE VIEW

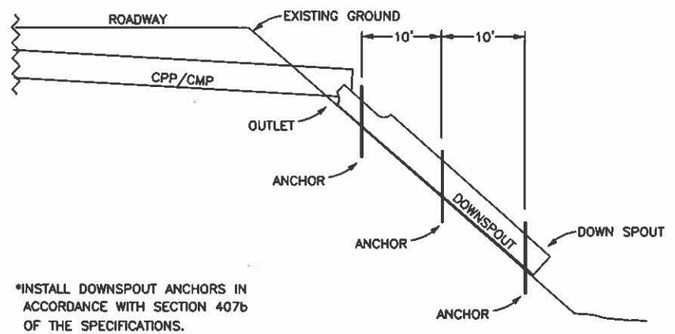
CULVERT MARKER DETAIL



ENERGY DISSIPATER DETAIL

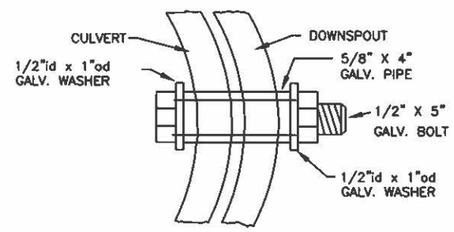


DOWNSPOUT ANCHOR DETAIL*



*INSTALL DOWNSPOUT ANCHORS IN ACCORDANCE WITH SECTION 407b OF THE SPECIFICATIONS.

BOLT ASSEMBLY DETAIL



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U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT - OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
CULVERT DETAILS

PREPARED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 10/2026	SHEET 7 OF 68

ROAD NUMBER	SURFACING						OTHER			SOIL STABILIZATION		
	6" LANDING ROCK (*2)	6-0" BASE ROCK (*2)	3-0" SURFACE ROCK (*1)	1.5-0" SURFACE ROCK (*3)	1.5-0" SPOT ROCK (*3)	0.75-0" SURFACE ROCK (*4)	1.0-0" CULVERT ROCK (*4)	CLASS 3 RIP RAP (*5)	POTHOLE COLD PATCH	SEED AND MULCH		OTHER (SEDIMENT CONTROL DEVICES)
										DRY	HYDRO	
SECTION NO.	1000	1000	1000	1200	1200	1200	1200	1400	500	1800	1800	1700
UNITS	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	LBS	ACRES	ACRES	EACH
31-12-3.0										0.1		
31-12-5.1			553				320	30		0.6		
31-12-5.2							380			0.1		
31-12-8.0			527					35		2.4		
31-12-8.1										0.5		
31-12-8.5										0.2		
31-12-8.6										0.4		
31-12-8.7										0.2		
31-12-8.8										0.1		
31-12-9.5										0.2		
PROJECT TOTALS			1080				700	65		4.8		

*NOTE

*	SECTION	GRADE	SIZE
1	1000	A	3-0"
2	1000	I	6-0"
3	1200	C	1.5-0"
4	1200	D1	1.00-0"
5	1400	CLASS 3	27-8"
6	1400	CLASS 4	33-9"
7	2600	ODOT LEVEL III ASPHALT	1/2" DENSE PG64-22

ESTIMATE OF QUANTITIES**

** FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.
ALL ROCK QUANTITIES ARE TRUCK (LOOSE) CUBIC YARDS.

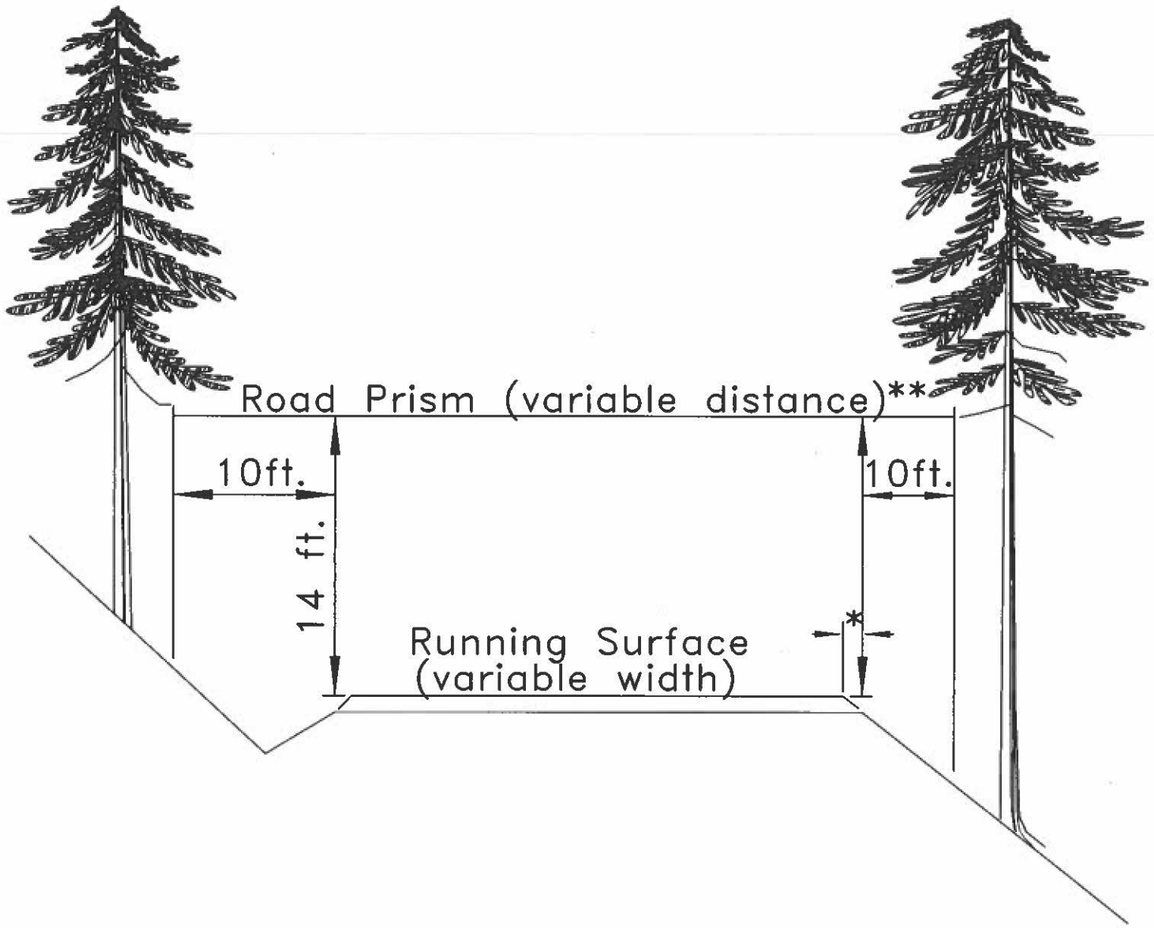
ALWAYS THINK SAFETY

U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT – OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
ESTIMATE OF QUANTITIES

PREPARED J. AGUILAR
REVIEWED L. MURPHY
APPROVED M. RUSSELL

DRAWN JAA | SCALE NONE
DATE 10/2026 | SHEET 6 OF 68

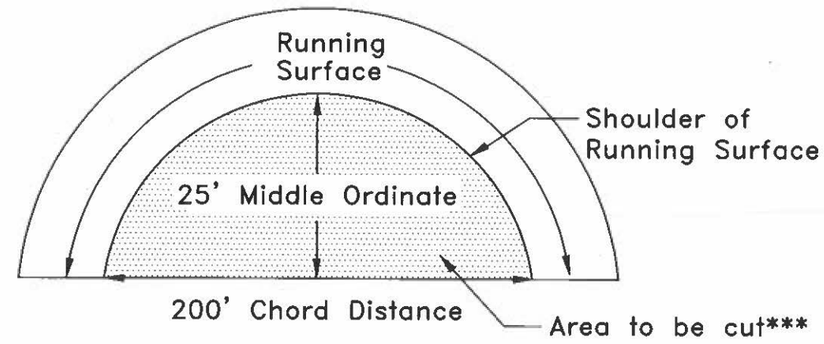


* Variable distance between running surface and start of fill slope.

** All areas within the variable distance shall be free of all vegetation capable of growing one (1) foot in height or higher, and free of all over-hanging limbs and branches 14 feet in elevation above the running surface.

Roadside Brushing – Inside Corner

Sight Distance Diagram



*** Inside curves, upon BLM lands or in coordination with private landowners, shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot height, shall be cut within this area.

ALWAYS THINK SAFETY

U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT – OREGON	
ORC04-TS-2027.0031 RYE ROWLAND RYE ROADSIDE BRUSHING DETAILS	
PREPARED J. AGUILAR	
REVIEWED L. MURPHY	
APPROVED M. RUSSELL	
DRAWN JAA	SCALE NONE
DATE 10/2026	SHEET 8 OF 68

SPECIAL PROVISIONS

Prework Conference

A prework conference will be held prior to the start of operations. The Purchaser shall request the conference at least **45 days** prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

Cut and Leave Trees (CL) Associated with Road Clearing Limits

Trees marked with yellow paint “CL” are to be cut and left outside road clearing limits.

Purchaser Responsibility

The Purchaser shall avoid damaging any bituminous and/or aggregate surfaced roads. The Purchaser will be responsible for the repair or the cost of repair of any road damaged as a result of activities. Bituminous and aggregate roads shall be left in the same condition that they were prior to Purchaser’s activities.

Prior to any road construction, improvement, renovation of structures or roads, contact Oregon Utility Notifications Center (800-332-2344 or 811) for locations of buried lines or cables. The Purchaser shall be responsible for repair or replacement of any damage or destruction to structures, utilities, and cables.

The Purchaser shall be required to secure written approval (BLM Haul Authorization) to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles over 80,000 lbs gross. Allow up to 60 days processing time in advance of bridge use.

When operations are in progress adjacent to or on roads and/or trails in the harvest unit area, Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations.

General Roadwork Season

All road construction, renovation, and decommissioning work would be done during the dry construction season, avoiding precipitation periods, between June 1 and October 15.

In-water Work Period for Stream Culverts

Oregon Department of Fish and Wildlife (ODFW) guidelines for timing of in-water work limits stream culvert installation to the period between July 1 and September 15.

Seasonal and Daily Timing Restrictions

Refer to timber sale contract, Section 44 (Special Provisions), Seasonal Restriction Matrix (timber sale prospectus), and Exhibit A maps.

Uniform Optimum Moisture Content

Acceptable moisture content, as field tested by Authorized Officer, can be determined by hand clump test i.e., where a soil sample forms a firm ball by hand that does not crumble, free moisture is not visible on the surface, and material does not squeeze between fingers.

In-place Density and Relative Compaction Field Testing

Final subgrade, finished grading, and surfacing layers (Subsections 306, 306e, 504, 504a, 1012, and 1212) shall be observed by the Authorized Officer, as a truck with H-20 loading, loaded to GVW, travels over a length of half a mile of compacted surface. Testing vehicle shall complete four (4) passes, traveling at a rate of 350'/minute (4 MPH). There shall be no movement, indentation, or vertical displacement of the compacted surface. The half mile road segment, selected for testing, shall be identified by Authorize Officer. Loaded dump truck or water tender with operator shall be provided by Purchaser. Purchaser shall give Authorized Officer 3 days' notice to complete inspection of compaction. Compaction shall be approved in writing by the Authorized Officer. Compaction testing costs are included in roadwork appraisal.

Culverts

Culvert lengths listed in Roads Worklist and Estimate of Quantity sheets are estimated culvert lengths. Final culvert lengths shall be installed to fit the actual ground & site conditions of proposed work locations. "Shotgun" pipes, or short lengths with a trench, shall not be accepted.

All culverts removed under the contract become the property of the Purchaser and shall be legally disposed off BLM and private lands.

Culvert renovation work shall be completed to all culverts for renovated and improved roads regardless of being identified in Roads Worklist.

Over-wintering

Roads shall be maintained and winterized in accordance with Exhibit D, Section 1700, and as directed by Authorized Officer. This work shall be completed prior to the first rains of the wet season, but no later than October 1 of each season.

Waste Areas

Waste areas, designated in plans or created at time of active operations, shall be sloped, shaped to drain, seeded, and mulched upon completion of use, in accordance with Sections 1700 and 1800 of the Timber Sale Road Specifications.

Spill Containment

Spill containment kit is required on-site during work.

Equipment Cleaning (Washing)

The Purchaser is responsible for vehicle and equipment cleaning in accordance with the Exhibit F. Vehicle and equipment washing shall be required for the following: mobilization to timber sale contract area and prior to entering areas uninfected with Port-Orford Cedar Root Disease.

Native Seed

The Government will furnish native seed mix for soil stabilization and if necessary, erosion control.

Rock Quantity Accounting

Purchaser shall provide Authorized Officer with rock tickets for all rock materials furnished to timber sale. Rock tickets will be physical duplicates of originals that are obtained from the commercial source utilized by Purchaser. Information on the rock tickets shall at minimum include commercial source, rock grade, quantity (cubic yards or tons), purchaser name, date, and end destination. Rock tickets will be provided to Authorized Officer within 3 days after placement of rock. Acceptance of road is conditional upon providing rock tickets.

ROADS WORKLIST

RENOVATE BLM ROAD NO. 31-12-3.0 Segment A1
Milepost 0.00 to 0.59 (bituminous surface road segment)

MP.	Remarks
0.00	Junction with Highway 542 at milepost (MP) 15.45.
	Begin renovation, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
NOTE:	Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area. An estimate of 30 cubic yards (CY) of material to be removed.
NOTE:	Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4” vertical drop for every 10’ horizontal distance.
0.34	Existing concrete bridge - BLM owned and controlled.
0.58	Junction, BLM Road No. 31-12-3.1 right not proposed for use.
0.59	Existing cattle guard.
	Road segment A1 ends (bituminous surface road segment). Continue renovation on road segment A2 (crushed aggregate surface road segments).

RENOVATE BLM ROAD NO. 31-12-3.0 Segments A2
Milepost 0.59 to 2.61

MP.	Remarks
0.59	Road segments A2 begins.
	Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
NOTE:	Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with written approval from the Authorized Officer,

excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 100 CY of material to be removed.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.

NOTE: The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed, shaped, and compacted to the lines, grades, dimensions, and typical cross sections and as in the plans.

NOTE: Any waste material associated with ditch cleaning and/or cut slope failure, within 200' of a stream shall be end hauled to designated waste areas.

0.60 Existing functioning gate.

2.61 Junction, renovate BLM Road No. 31-12-8.0 right.

End renovation.

RENOVATE BLM ROAD NO. 31-12-5.1
Station 0+00 to 26+60

STA.	Remarks

0+00 Junction with BLM Road No. 31-12-8.0 Segment E at milepost 1.31.

Begin culvert work, cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, slope protection, soil stabilization, and roadside brushing in accordance with Sections 200, 300, 400, 500, 600, 1200, 1400, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Bottom of ditch shall be at least 4' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with written approval from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 80 CY of material to be removed.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.

NOTE: The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed, shaped, and compacted to the lines, grades, dimensions, and typical cross sections and as in the plans.

NOTE: Any waste material associated with ditch cleaning and/or cut slope failure, within 200' of a stream shall be end hauled to designated waste areas.

NOTE: Trees associated with road repairs within riparian areas are not included in the timber sale volume. They shall be placed outside of construction limits and remain as BLM ownership.

NOTE: From station 0+00 to 26+60, install 4" lift of compacted 3-0" crushed aggregate surfacing.

0+50 Replace failing 18" x 40' CMP cross drain culvert with new 18" x 40' CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

4+50 Replace failing 18" x 36' CMP stream crossing culvert with new 24" x 40' CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 60 CY of 1-0" crushed aggregate allocated for culvert bedding, culvert side fill, and to replace lost road fill. 30 CY of Class 3 rip rap allocated for fill slope protection structure (armoring).

5+50 New culvert location. Install 30" x 40' CPP stream crossing culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and culvert side fill.

6+00 New culvert location. Install 18" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

9+40 New culvert location. Install 18" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

10+70 Proposed on-road landing location.

12+30 New culvert location. Install 18" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

13+70 Replace failing 18" x 40' CMP stream crossing culvert with new 24" x 50' CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and culvert side fill.

14+70 New culvert location. Install 18" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

15+75 Replace failing 18" x 60' CMP stream crossing culvert with new 36" x 60' CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 100 CY of 1-0" crushed aggregate allocated for culvert bedding, culvert side fill, and to replace lost road fill.

16+60 New culvert location. Install 18" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

23+00 Proposed on-road landing location.

Renovate truck turnout left.

23+60 50' road segment passes through unstable area. Unstable area noted below the road segment and displays ongoing activity. Currently this road segment is 1' below the incoming and outgoing road segments. Repair roadbed by grading adjoining stable road segments, ramping down and ramping up at existing abrupt grade changes.

24+70 Construct 60' diameter roadside landing left in accordance with Sections 200, 300, 600, 1700, and 1800 of the Timber Sale Road Specifications.

26+60 Renovate 60' diameter end landing.

End renovation.

RENOVATE BLM ROAD NO. 31-12-8.0 Segment A
Milepost 0.00 to 0.53

MP.	Remarks

0.00 Junction with BLM Road No. 31-12-3.0 at milepost 2.61.

Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 5. Bottom of ditch shall be at least 4' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with written approval from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 85 CY of material to be removed.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 5. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.

NOTE: The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed, shaped, and compacted to the lines, grades, dimensions, and typical cross sections and as in the plans.

NOTE: Any waste material associated with ditch cleaning and/or cut slope failure, within 200' of a stream shall be end hauled to designated waste areas.

0.06 Existing 24" x 46' corrugated-polyethylene pipe (CPP) stream crossing culvert. Clean inlet, outlet, and barrel.

0.16 Existing 36" x 60' corrugated-metal pipe (CMP) stream crossing culvert. Clean inlet, outlet, and barrel.

0.35 Existing 24" x 36' CMP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

0.40 Renovate existing ditch out left.

0.41 Renovate existing ditch out right.

0.53 Approximate property line. Leaving BLM land ownership. Entering private land ownership.

Road segment A ends. Continue renovation on road segment B.

RENOVATE BLM ROAD NO. 31-12-8.0 Segment B (Private owned / BLM improved)
Milepost 0.53 to 0.67

MP.	Remarks

0.53 Road segment B begins.

Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Estimated 20 CY of material generated from reconditioning of drainage ditches and structures shall be treated as directed by Authorized Officer.

0.57 Existing overflow culvert associated with man-made pond.

0.65 Junction, renovate BLM Road No. 31-12-8.1 left.

0.67 Road segment B ends. Continue renovation on road segments C through D.

RENOVATE BLM ROAD NO. 31-12-8.0 Segment C-E portion
Milepost 0.67 to 1.31

MP.	Remarks

0.67 Road segments C-E portion begins.

Begin culvert work, ditch cleaning/shaping, renovation, watering, surfacing, slope protection, erosion control, soil stabilization, and roadside brushing in accordance with Sections 400, 500, 600, 1000, 1400, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross

Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Bottom of ditch shall be at least 4' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with written approval from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 300 CY of material to be removed.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.

NOTE: The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed, shaped, and compacted to the lines, grades, dimensions, and typical cross sections and as in the plans.

NOTE: Any waste material associated with ditch cleaning and/or cut slope failure, within 200' of a stream shall be end hauled to designated waste areas.

NOTE: From milepost 0.83 to 1.31, install 4" lift of compacted 3-0" crushed aggregate surfacing.

NOTE: From milepost 0.74 to 1.29, any merchantable trees (minimum 6" DBH) removed/cut shall have Authorized Officer written approval.

0.73 Existing functioning gate.

0.83 Existing 18" x 50' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

Junction, renovate BLM Road No. 31-12-8.8 right.

0.87 Renovate truck turnout left.

0.89 New culvert location. Install 24" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

0.92 Replace failing 18" x 30' CMP stream crossing culvert with new 30" x 40' CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and culvert side fill.

0.95 Replace failing 18" x 34' CMP cross drain culvert with new 24" x 40' CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

1.00 Replace failing 18" x 34' CMP cross drain culvert with new 24" x 40' CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

1.09 Replace failing 18" x 40' CMP cross drain culvert with new 24" x 40' CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. Place 5 CY of Class 3 rip rap at outlet side, acting as energy dissipator and fill armoring. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

Begin insloping road (associated with repair at MP 1.13)

1.13 Fill failure attributed to nonfunctioning ditch and unstable area noted below the road. Uncontrolled ditch flow has created a knickpoint that has caused approximately 20 CY of fill loss. Inslope road for road segment beginning at MP 1.09 and ending at MP 1.15. Ensure ditch is reestablished through defined segment. Estimated 50 CY waste to be end hauled to designated waste area.

1.15 End insloping road (associated with repair at MP 1.13).

1.18 Existing 18" x 34' CPP cross drain culvert. Clean culvert's catch basin, inlet, outlet, and barrel.

1.20 Existing 24" x 40' CPP stream crossing culvert. Clean inlet, outlet, and barrel.

1.27 New culvert location. Install 24" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding and side fill.

1.29 Approximate property line. Leaving private land ownership. Entering BLM land ownership.

Road segment D ends. Continue renovation on road segment E.

1.31= 0+00 Proposed on-road landing location.

Renovate truck turnout left.

Junction, renovate BLM Road No. 31-12-5.1 right.

Continue renovation on BLM Road No. 31-12-8.0 segment E.

RENOVATE BLM ROAD NO. 31-12-8.0 Segment E
Station 0+00 to 36+30

STA.	Remarks

0+00 BLM Road No. 31-12-8.0 segment E at milepost 1.31.

Begin culvert work, cut slope & fill slope failure removal/repair, ditch cleaning/shaping, renovation, watering, surfacing, erosion control, slope protection, soil stabilization, and roadside brushing in accordance with Sections 200, 300, 400, 500, 600, 1200, 1400, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Culvert Details, Roadside Brushing Details, and Roads Worklist.

NOTE: Road drainage ditch will be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Bottom of ditch shall be at least 4' horizontal and -1' vertical from edge of road's rocked travelway. Ditch backslope shall match adjacent road cut slope. Ditch both sides of road when necessary. This work will include renovating catch basins. Material generated from

reconditioning of drainage ditches and structures, shall be bunched and end hauled to designated waste area, however, when site conditions permit and with written approval from the Authorized Officer, excavated material may be placed in a stable manner upon fill slope utilizing equipment with a bucket. An estimate of 170 CY of material to be removed.

NOTE: Outside road shoulder shall be bladed and shaped in accordance with the Typical Cross Section Details – Type 4. Daylight outside road shoulder to break of fill slope, removing berms and providing smooth unobstructed path for road surface sheet flow to migrate onto vegetated fill/hill slope. Daylight sections will be outsloped at 4" vertical drop for every 10' horizontal distance.

NOTE: The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed, shaped, and compacted to the lines, grades, dimensions, and typical cross sections and as in the plans.

NOTE: Any waste material associated with ditch cleaning and/or cut slope failure, within 200' of a stream shall be end hauled to designated waste areas.

NOTE: Trees associated with road repairs within riparian areas are not included in the timber sale volume. They shall be placed outside of construction limits and remain as BLM ownership.

3+00 New culvert location. Install 24" x 40' CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0" crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

4+50 Replace failing 18" x 40' CMP stream crossing culvert with new 30" x 40' CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0" crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

Begin insloping road (associated with repair at station 6+50)

6+50 Fill failure attributed to unstable area noted above and below the road. Repair roadbed by grading adjoining stable road segments, ramping down and ramping up at existing abrupt grade changes. If necessary, gain additional road width by moving roadway to right, requiring excavating into cut slope. Suitable material from excavation shall be utilized in fill repair. Inslope road segment beginning at station 4+50 and ending at station 10+00. Ensure ditch is reestablished through defined segment.

10+00 End insloping road (associated with repair at station 6+50).

Renovate existing ditch out right.

Proposed on-road landing location.

11+50 Proposed on-road landing location.

12+75 175' road segment passes through unstable area. Unstable area noted above and below the road segment. Remove cut slope failure (estimated 200 CY). Suitable material from cut slope failure can be utilized for fill repair.

15+25 Replace failing 18” x 40’ CMP cross drain culvert with new 24” x 40’ CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

16+75 New culvert location. Install 24” x 40’ CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

17+30 Replace failing 18” x 40’ CMP stream crossing culvert with new 36” x 40’ CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

19+00 Replace failing 18” x 40’ CMP stream crossing culvert with new 30” x 40’ CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. Place 30 CY of Class 3 rip rap at outlet side, acting as energy dissipator and fill armoring. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

20+30 New culvert location. Install 24” x 40’ CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

21+20 Renovate truck turnout right.

22+00 Replace failing 18” x 40’ CMP stream crossing culvert with new 24” x 40’ CPP culvert. Culvert alignment and vertical placement shall be as directed by Authorized Officer. Prior to placement of backfill, Purchaser shall obtain written approval from Authorized Officer. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

25+00 New culvert location. Install 24” x 40’ CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

25+50 Proposed on-road landing location. Construct 30’ wide x 60’ long adjacent operational area left in accordance with Sections 200, 300, 600, 1700, and 1800 of the Timber Sale Road Specifications.

26+50 New culvert location. Install 24” x 40’ CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

New junction, construct BLM Road No. 31-12-5.2 left.

27+25 New culvert location. Install 24” x 40’ CPP cross drain culvert with associated spring. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

28+50 Renovate truck turnout right.

30+75 New culvert location. Install 24” x 40’ CPP cross drain culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

32+20 Replace failing 18” x 40’ CMP cross drain culvert with new 24” x 40’ CPP culvert. Ensure catch basin, culvert skew and culvert invert grade are in accordance with details and specifications. 20 CY of 1-0” crushed aggregate allocated for culvert bedding, side fill, and surface replacement.

32+50 Construct 80’ diameter roadside landing right in accordance with Sections 200, 300, 600, 1700, and 1800 of the Timber Sale Road Specifications.

36+30 Proposed on-road landing location. Construct 20’ wide x 30’ long adjacent operational area (yarder pad) left in accordance with Sections 200, 300, 600, 1700, and 1800 of the Timber Sale Road Specifications.

End renovation.

RENOVATE BLM ROAD NO. 31-12-8.1 Segment A-B
Milepost 0.00 to 0.42

MP.	Remarks
0.00	Junction with BLM Road No. 31-12-8.0 Segment B at milepost 0.65.
	Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
NOTE:	Estimated 60 CY of material generated from reconditioning of drainage ditches and structures shall be treated as directed by Authorized Officer.
0.21	Existing 18” x 40’ CMP cross drain culvert. Clean culvert’s catch basin, inlet, outlet, and barrel.
0.28	Road segment A ends. Continue renovation on road segment B.
0.34	Renovate existing ditch out left.
0.42	Junction, renovate BLM Road No. 31-12-8.5 right.
	End renovation.

RENOVATE BLM ROAD NO. 31-12-8.5
Milepost 0.00 to 0.15

MP.	Remarks
0.00	Junction with BLM Road No. 31-12-8.1 at milepost 0.42.
	Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
0.15	New junction, construct BLM Road No. 31-12-8.6 left.

End renovation.

RENOVATE BLM ROAD NO. 31-12-8.8
Milepost 0.00 to 0.19

MP.	Remarks
0.00	Junction with BLM Road No. 31-12-8.0 Segment C at milepost 0.83.
	Begin renovation, watering, erosion control, soil stabilization, and roadside brushing in accordance with Sections 500, 600, 1700, 1800, and 2100 of the Timber Sale Road Specifications, Typical Cross Section Details, Roadside Brushing Details, and Roads Worklist.
0.02	Existing 18” x 40’ CPP stream crossing culvert. Clean inlet, outlet, and barrel.
0.19	New junction, construct BLM Road No. 31-12-9.5 left.
	End renovation.

CONSTRUCTION DETAIL SHEET
ROAD NO. 31-12-5.2
FIELD CONTROL

GENERAL
Purchaser shall construct Road No. 31-12-5.2 from Sta. 0+00 to 3+25 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specification and details which follow:

SHAPING
The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be ¾:1 (horizontal:vertical) and fill slopes shall be 1½ :1 or as shown on plans.

TURNOUTS
Construct turnouts intervisible as terrain permits.

SUBGRADE
Estimated 800 CY of excavation and embankment associated with the construction of subgrade and landing.

Maximum cut and fill depths associated with subgrade estimated at 6 feet and 4 feet respectively.

DRAINAGE FEATURES
Outsloped at 3% with no ditch to achieve drainage.

SURFACING
Native surface.

ALIGNMENT
Roadway shall be constructed within posted or painted right-of-way boundaries.

Road centerline is flagged with orange flagging.

Minimum curve radius shall be sixty (60) feet.

Field adjustments may be required to constructed road given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments include junction, grade, and associated earthwork.

GRADE
Grade shall not exceed 6% favorable.

TRUCK TURNAROUND
No designated truck turnaround.

LANDINGS
Station 3+25, construct 80’ diameter end landing.

Grade of any landing and 100’ road segment leading to a landing shall not exceed 5%.

SOIL STABILIZATION
Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET
ROAD NO. 31-12-8.6
FIELD CONTROL

GENERAL
Purchaser shall construct Road No. 31-12-8.6 from Sta. 0+00 to 10+70 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specifications and details which follow:

SHAPING
The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be ½:1 (horizontal:vertical) and fill slopes shall be 1½ :1 or as shown on plans.

TURNOUTS
Construct turnouts intervisible as terrain permits.

SUBGRADE
Estimated 850 CY of excavation and embankment associated with the construction of subgrade and landings.

Maximum cut and fill depths associated with subgrade estimated at 5 feet and 5 feet respectively.

DRAINAGE FEATURES
Crowned at 3% with 3’ ditch to achieve drainage.

Station 2+50, install 18” x 30’ corrugated polyethylene pipe cross drain culvert.

Station 6+25, install 24” x 40’ corrugated polyethylene pipe stream crossing culvert.

Station 7+25, install 18” x 30’ corrugated polyethylene pipe cross drain culvert.

SURFACING
Native surface.

ALIGNMENT
Roadway shall be constructed within posted and/or painted right-of-way boundaries.

L-Line locations are staked.

Minimum curve radius shall be sixty (60) feet.

Field adjustments may be required to constructed road given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments include junction, grade, and associated earthwork.

GRADE
Grade shall not exceed 15% adverse.

TRUCK TURNAROUND
Station 9+75, construct truck turnaround right.

LANDINGS

Station 10+70, construct 60’ diameter end landing.

Grade of any landing and 100’ road segment leading to a landing shall not exceed 5%.

SOIL STABILIZATION

Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET
ROAD NO. 31-12-8.7
FIELD CONTROL

GENERAL
Purchaser shall construct Road No. 31-12-8.7 from Sta. 0+00 to 3+25 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specifications and details which follow:

SHAPING
The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be ½:1 (horizontal:vertical) and fill slopes shall be 1½ :1 or as shown on plans.

TURNOUTS
Construct turnouts intervisible as terrain permits.

SUBGRADE
Estimated 200 CY of excavation and embankment associated with the construction of subgrade and landing.

Maximum cut and fill depths associated with subgrade estimated at 1 feet and 1 feet respectively.

DRAINAGE FEATURES
Outsloped at 3% with no ditch to achieve drainage.

SURFACING
Native surface.

ALIGNMENT
Roadway shall be constructed within posted and/or painted right-of-way boundaries.

L-Line locations are staked.

Minimum curve radius shall be sixty (60) feet.

Field adjustments may be required to constructed road given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments include junction, grade, and associated earthwork.

GRADE
Grade shall not exceed 6% adverse and 6% favorable.

TRUCK TURNAROUND
No designated truck turnarounds.

LANDINGS
Station 3+25, construct 60’ diameter end landing.

Grade of any landing and 100’ road segment leading to a landing shall not exceed 5%.

SOIL STABILIZATION
Apply seed and mulch in accordance with Section 1800.

CONSTRUCTION DETAIL SHEET
31-12-9.5
FIELD CONTROL

GENERAL
Purchaser shall construct 31-12-9.5 from Sta. 0+00 to 6+25 as shown on the work location map. This work shall be accomplished in accordance with Timber Sale Road Specifications and details which follow:

SHAPING
The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Details. Cut slopes shall be ½:1 (horizontal:vertical) and fill slopes shall be 1½ :1 or as shown on plans.

TURNOUTS
Construct turnouts intervisible as terrain permits.

SUBGRADE
Estimated 1350 CY of excavation and embankment associated with the construction of subgrade, truck turnaround and landing.

Maximum cut and fill depths associated with subgrade estimated at 5 feet and 5 feet respectively.

DRAINAGE FEATURES
Crowned at 3% with 3’ ditch to achieve drainage.

SURFACING
Native surface.

ALIGNMENT
Roadway shall be constructed within posted and/or painted right-of-way boundaries.

L-Line locations are staked.

Minimum curve radius shall be sixty (60) feet.

Field adjustments may be required to constructed road given input from Purchaser, operator, and with approval by Authorized Officer. Field adjustments include junction, grade, and associated earthwork.

GRADE
Grade shall not exceed 13% favorable and 13% adverse.

TRUCK TURNAROUND
Station 2+50, construct truck turnaround right.

LANDINGS
Station 6+25, construct 60’ diameter end landing.

Grade of any landing and 100’ road segment leading to a landing shall not exceed 5%.

SOIL STABILIZATION
Apply seed and mulch in accordance with Section 1800.

TIMBER SALE ROAD SPECIFICATIONS

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100	General
200	Clearing and Grubbing
300	Excavation and Embankment
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600	Watering
1000	Aggregate Base Course - Crushed Rock
1200	Aggregate Surface Course - Crushed Rock
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1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing

Asterisks (*) on following pages indicate those Subsections always included for Sections.

Please note, while the Timber Sale Road Specifications is tailored to individual projects, some Subsections are included for the purpose of addressing latent conditions and situations frequently encountered during active operations.

TIMBER SALE ROAD SPECIFICATIONS

GENERAL – 100

101* - Prework Conference(s):

A prework conference will be held prior to the start of operations. The Purchaser shall request the conference at least **45 days** prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractor(s).

102* - Definitions:

AASHTO - American Association of State Highway and Transportation Officials. Current editions of tests and specifications.

Abrasion Resistance - The ability of a fabric surface to resist wear by friction.

ACI - American Concrete Institute

Apparent Opening Size (AOS) - Number of the U.S. Bureau of Standard sieve (or its opening size in millimeters or inches) having openings closest in size to the diameter of uniform particles which will allow 5 percent by weight to pass through the geotextile material when shaken in a prescribed manner. This is also referred to as Equivalent Opening Size (EOS).

ASTM - American Society for Testing and Materials.

Base Course - Surfacing structure consisting of crushed gravel or stone, crushed sandstone, pit run rock, bank, or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

Borrow - Excavated material required for embankments and other portions of the work.

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

Culvert - A pipe, pipe-arch, arch, or box structure constructed of metal, concrete, plastic, or wood which provides an opening under the roadway primarily for the conveyance of liquids, pedestrians, or livestock.

TIMBER SALE ROAD SPECIFICATIONS

Curve Widening - Widening required on inside of curves to accommodate long log and equipment hauling trucks.

Embankment - A structure of soil, aggregate, or rock material placed on a prepared ground surface and constructed to subgrade.

End Haul - Excavated material moved, other than by dozer, to an embankment or waste area to prevent sidecasting material outside of the road prism.

Excess Excavation - Material from the roadway in excess of that needed for construction of the designed roadway (waste).

Grab Tensile Strength - A modified tensile strength of a geotextile material. The strength of a specific width of geotextile material together with the additional strength contributed by adjacent areas. Typically, grab strength is determined on a 12-inch-wide strip of geotextile material, with the tensile load applied at the midpoint of the geotextile material width through 1-inch-wide jaw faces.

Grading - Leveling to grade, shaping, and smoothing of a road subgrade; the shaping of roadside ditches as to grade and contour. In some instances, includes smoothing of the cut bank.

Nonwoven Geotextile Material - A textile structure produced by bonding or interlocking of fibers, or both, accomplished by mechanical or chemical means.

Overhaul - Distance excavated material is transported in excess of the distance included in the cost for excavation.

Penetration Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a sharp pointed object. Initial penetration is by separating the fibers. Further penetration is essentially a tearing process.

Percent Open Area - The net area of a geotextile material that is not occupied by geotextile material filaments, normally determinable only for woven and nonwoven geotextile material having distinct, visible, and measurable openings that continue directly through the geotextile material.

Permeability - The geotextile material property which permits water to be transmitted in the longitudinal or transverse planes of the geotextile material.

Pioneer Road - Temporary construction access built along the route of the project.

Piping - The process by which soil particles are washed in or through pore spaces in drains and filters or poorly compacted fill/backfill material.

TIMBER SALE ROAD SPECIFICATIONS

Plans - The approved drawings, or exact reproductions thereof which show the locations, character, dimensions, and details of the work to be done.

Pore Size - The size of an opening between geotextile material filaments; apparent opening size (AOS) is used to quantify this geotextile material property.

Puncture Resistance - The geotextile material property determined by the force required to penetrate a geotextile material with a blunt object. Failure results in a tearing of the geotextile material.

Purchaser - The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through their, or its agents, employees, or contractors.

Reasonably Close Conformity - Compliance with reasonable and customary manufacturing and construction tolerances where working tolerances are not specified.

Reinforcement - Strengthening of concrete with iron bars or mesh: geotextile with geotextile material inclusion: subgrade with aggregate: etc.

Roadbed - The graded portion of the road within top and side slopes, prepared as a foundation for the pavement structure and shoulders.

Road Centerline - The longitudinal center of a roadbed.

Road Improvement - Work done to an existing road which improves it over its original design standard.

Road Renovation - Work done to an existing road which restores it to its original design.

Roadway - The portion of a road within limits of construction. Usually from the toe of the fill slope to a point where the cut slope intersects natural ground line. Synonym - road prism.

Scale - In quarrying, consists of the removal of loose or overhanging rock adhering to the solid face after a shot or a round of shots has been fired.

Scarification - The process of loosening or breaking up of the surface layer of soil or road, usually to a specified depth.

Separation - Function of geotextile material as a partition between adjacent materials to prevent mixing of those materials.

Shoulder - The portion of the roadbed contiguous with the traveled way designed for accommodation of stopped vehicles, safety, and lateral support of base and surface courses.

TIMBER SALE ROAD SPECIFICATIONS

Slope ratio notation (horizontal: vertical) – Slope ratios for constructed cut and fill slopes are expressed as a ratio of horizontal units to vertical units.

Spalls - Flakes or chips of stone.

Specifications - A general term applied to all directions, provisions, and requirements pertaining to performance of the work.

Specific Gravity - The ratio of the density of a material to the density of water obtained by weighing known volumes of both items in air. A specific gravity less than one implies that the material will float.

Structures - Bridges, culverts, catch basins, retaining walls, underdrains, flumes, splash pads, downspouts, and other project features which may be involved in the work and not otherwise classified in these specifications.

Subbase - Reinforcement of the subgrade with large particles of pitrun rock or crushed stone. Usually confined to roads having wet subgrades or subgrades with weak support characteristics.

Surface Course - Top layer of a road structure consisting of finely crushed gravels or asphalt designed to provide a smooth running surface for traffic load.

Subgrade - The top surface of a roadbed upon which the traveled way and shoulders are constructed.

Tensile Strength - The strength shown by a geotextile material subjected to tension as distinct from torsion, compression, or shear.

Tensile Stress - Strain Modulus - A measure of the resistance to elongation under stress. The ratio of the change in tensile stress to the corresponding change in strain.

Tensile Test - A test which subjects geotextile material to tensile forces and measures resultant stresses and strains.

Timber - Standing trees, downed trees, or logs which can be measured in board feet.

Traveled Way - The portion of the roadbed used for the movement of vehicles, exclusive of shoulders.

Typical Cross Sections - Cross-sectional plane of a typical roadway; showing natural ground line and designed roadway in relation to cut and fill, through cut, and through fill.

Turnout - Extra widening of the roadbed at appropriate intervals on single-lane roads for passing purposes.

TIMBER SALE ROAD SPECIFICATIONS

Ultraviolet (UV) Radiation Stability - The ability of geotextile material to resist deterioration from exposure to sunlight.

Unaged Cloth - Cloth in condition received from the manufacturer or distributor.

Woven Geotextile Material - A textile structure comprising two or more sets of filaments of yarns interlaced in such a way that the elements pass each other at essentially right angles with one set of elements parallel to the geotextile material axis.

102a* - Tests Used in These Specifications:

AASHTO T 11	Quantity of rock finer than No. 200 sieve.
AASHTO T 27	Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation.
AASHTO T 89	Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
AASHTO T 90	Plastic limits and plasticity index of soil. a.) Plastic limit - lowest water content at which the soil remains plastic. b.) Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
AASHTO T 96	Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
AASHTO T 99	Relationship between soil moisture and density of soil. Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/layer & 3 layers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.
AASHTO T 119	Slump of hydraulic cement concrete.
AASHTO T 152	Air content of freshly mixed concrete.
AASHTO T 166	Specific Gravity of compacted Bituminous Mixtures.
AASHTO T 176	Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

TIMBER SALE ROAD SPECIFICATIONS

AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop height.

AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.

AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.

AASHTO T 209 Maximum Specific Gravity of Bituminous Paving Mixtures.

AASHTO T 210 Durability of aggregates based on resistance to produce fines.

AASHTO T 224 Correction for coarse particles in the soil.

AASHTO T 238 Density of Soil and Soil-Aggregate in place by nuclear methods.

AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.

ASTM D 4564 Determination of relative density of cohensionless soils.

DMSO (dimethyl sulfide) Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103* - Compaction equipment shall meet the following requirements:

103a - Padded Drum Rollers. The unit shall consist of a drum with pads, be either self-propelled or towed by a tractor, and capable of operating at a speed of 6 mph. The drum shall be no less than 48 inches in diameter over the pads and not less than 60 inches in width. The pads shall have a minimum height of 3 inches, and a face area of not less than 14 square inches. The weight at drum shall be no less than 8000 lb.

103b - Sheepfoot rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

The distance between circumferential rows of tamper feet shall be such that the diagonal distance from any foot to the nearest foot in each adjacent row shall be not more than 12”. The cross-sectional area of the face of each tamper foot, measured perpendicular to the axis of the stud, shall be not less than 5-1/2 square inches nor more than 8 square inches.

TIMBER SALE ROAD SPECIFICATIONS

The weight of the tamping-roller unit shall be such as to exert a minimum pressure of 250 pounds per square inch on the ground area in contact with the tamping feet, and the roller shall be so designed that the weight may be increased to exert a pressure up to 500 pounds per square inch on the ground area in contact with the tamping feet. The ground pressure shall be determined by dividing the total weight of the roller unit, not including the weight of the tractor, by the total cross-sectional area of the tamping feet in one row of tamping feet parallel to the axis of the roller.

103c - Smooth-wheel power rollers. Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel, or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.

103d - Pneumatic-tired rollers. Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

Each pneumatic-tired roller shall be drawn by equipment having sufficient power and weight under normal working condition to pull the roller at a minimum speed of 5 miles per hour, or it may be self-propelled to obtain a minimum speed of 5 miles per hour.

103e - Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.

TIMBER SALE ROAD SPECIFICATIONS

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.

103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.

103h - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.

103i - Other. Compaction equipment approved by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

CLEARING AND GRUBBING - 200

201* - This work shall consist of clearing, grubbing, removing, and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

201a - This work shall consist of clearing, grubbing, removing, and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.

202* - Where clearing limits have not been staked, established by these specifications, or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.

202a - Where clearing limits for structures have not been staked or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.

202b - Where clearing limits for borrow pits and ditches have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.

203* - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202, as shown on the plans, and as posted.

203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.

203c - Disposal of logs from private timber cleared within the limits established as shown on the plans shall consist of decking at a location designated by the Authorized Officer.

204* - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, 204c, 204d and 204e between the top of the cut slope and the toe of the fill slope. When authorized, undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.

204a - Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.

TIMBER SALE ROAD SPECIFICATIONS

204b - Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.

204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.

204d - On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.

204e - Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.

205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.

210 - Disposal of clearing and grubbing debris shall be by piling or scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. **The areas for such piling or scattering shall have the prior approval of the Authorized Officer.** Piled slash may be used as mulch during road decommissioning.

210a - Disposal of clearing and grubbing debris on non-government property by scattering and/or piling this material outside of clearing limits will be permitted provided the **Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.**

212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.

213 - No clearing or grubbing debris shall be left lodged against standing trees.

TIMBER SALE ROAD SPECIFICATIONS

EXCAVATION AND EMBANKMENT - 300

301* - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

302* - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.

303a - Excavated material shall not be wasted as sidecast or perched. All material perched or sidecast as waste shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.

305* - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.

305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. **Roadway embankments** of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.

TIMBER SALE ROAD SPECIFICATIONS

305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.

305d - Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.

306* - Layers of embankment, selected borrow, final subgrade, and selected roadway excavation material as specified under Subsections 305a and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f and 103i.

NOTE: SPECIAL PROVISION- Uniform Optimum Moisture Content shall apply to Subsection 306.

306a - Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations of road or fraction thereof.

TIMBER SALE ROAD SPECIFICATIONS

306e - The final subgrade including landings, truck turnouts, and truck turnarounds shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 306e.

306g - **All fill slopes shall be compacted to 85 percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.**

311 - In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.

312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.

313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

TIMBER SALE ROAD SPECIFICATIONS

314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.

NOTE: Additional material excavated in accordance with Subsections 313 and/or 314 should not be viewed as a design change.

315 - Borrow material required for the construction of embankment or for other portions of the work shall be obtained from sources as shown on the plans.

316 - Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.

317 - Selected borrow shall consist of talus material, finely broken rock, gravel, or other material of granular or favorable characteristics from sources shown on the plans.

317a - Where indicated on the plans, the Purchaser shall conserve excavation material consisting of talus material, gravel, finely broken rock, or other material of granular or favorable characteristics for placement on the top portions of the roadbed as shown on the plans and as directed by the Authorized Officer.

318 - Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed (6) inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.

TIMBER SALE ROAD SPECIFICATIONS

321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsections 321a and/or 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.

NOTE: Any material being hauled over gravel or bituminous surfaced roads will be transported in vehicles which meet legal highway weight requirements while hauling.

321a - Excess construction materials specified under Subsection 321 shall be loaded, hauled, and disposed of at a designated disposal site or placed as embankment for designated roadbeds as shown on plans.

321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.

327* - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations and start of surfacing operations.

TIMBER SALE ROAD SPECIFICATIONS

PIPE CULVERTS - 400

401* - This work shall consist of furnishing and installing pipe culverts, full round downspouts, and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

403 - Grade culverts shall have a gradient of 2%-4% percent greater than the adjacent road grade unless otherwise specified. Grade culverts shall be skewed down grade 45 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.

404 - Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.

405a - Corrugated metallic coated steel-welded pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218, AASHTO M 274 as specified on the plans.

405e - Corrugated-polyethylene pipe for culverts 18-inch through 36-inch diameter shall meet the requirements of AASHTO M 294, Type S.

Corrugated-polyethylene pipe for culverts to be used for downspouts 18-inch through 24-inch diameter shall meet the requirements of AASHTO M 294, Type C. Installation will be subject to the same specification as other pipe materials.

406* - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.

TIMBER SALE ROAD SPECIFICATIONS

406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.

407 - Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.

407b - Full round culvert downspouts conforming to the material and construction requirements (i.e., adjustable elbow) shall be anchored in accordance with details, dimensions, and typical diagrams as shown on Culvert Details sheet. Downspouts will be anchored with two six-foot steel fence posts (one on each side of the pipe) wired together with No. 12 galvanized wire. These anchors will be placed every ten feet along the pipe beginning at outlet of culvert.

408* - Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the type required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.

410* - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.

411* - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Detail sheet.

412 - Where ledge rock or boulders are encountered, they shall be excavated a minimum of 10 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.

TIMBER SALE ROAD SPECIFICATIONS

412a - Where soft or spongy soils are encountered, they shall be excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled, as directed by the Authorized Officer, with selected granular or fine readily compactable soil material or crushed rock material in accordance with Section 1200 gradation.

413* - Pipe culverts and pipe-arch culverts shall be bedded on a selected granular, crushed rock material in accordance with Section 1200 gradation (E-1), or fine readily compactable soil material, as directed by Authorized Officer, having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

414a - The invert grade of the bedding shall be cambered at the middle ordinate a minimum of (1) percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.

415 - Inspection of pipe culverts having a diameter of 48 inches or larger shall be made before backfill is placed. Culverts found to be out of alignment or damaged shall be replaced, reinstalled, or repaired as directed by the Authorized Officer at the Purchaser's expense.

416* - Side-fill material for pipe culverts shall be placed within 1 pipe diameter, or a minimum of 2 feet, of the sides of the pipe barrel, and to 1 foot over the pipe with fine, readily compactable soil, or crushed rock material in accordance with Section 1200 gradation (E-1), or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

417* - For pipe culverts: Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 inches in depth and 1 pipe diameter, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers until a uniform density of 85 percent of the maximum density, is attained as determined by AASHTO T 99, Method C.

TIMBER SALE ROAD SPECIFICATIONS

NOTE: SPECIAL PROVISION - Uniform Optimum Moisture Content shall apply to subsection 417.

418 - Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.

419* - The pipe culverts after being bedded and backfilled as required by these specifications shall be protected by a 2-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.

423 - Construction of catch basins and ditch dams conforming to lines, grades, dimensions, and typical diagrams shown on the plans, shall be required for culverts.

424 - Construction of energy dissipaters (splash pads) conforming to lines, grades, dimensions, and typical diagram shown on the plans, shall be required for culverts as indicated on Roads Worklist.

425 - Where pervious materials are used for backfill and bedding, collars consisting of selected impervious material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.

426 - Culvert markers consisting of 1/2-inch round steel bars 4 feet in length bolted to the culvert at the inlet or 6 foot steel fence posts painted white, shall be furnished, fabricated, and installed by the Purchaser at culverts as shown on the plans and as directed by the Authorized Officer.

428 - Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.

429 - Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream waterflow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

TIMBER SALE ROAD SPECIFICATIONS

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

*501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, installing culverts and energy dissipaters, brushing vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as shown on the plans.

501a - This work shall include the removal and disposal of slides in accordance with these specifications.

502 - The existing road surface shall be scarified to its full width and to a depth to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans at the following location(s):

Road No.	From Sta./M.P.	To Sta./M.P.
All crushed rock surface roads listed in Roads Worklist.	See Roads Worklist	See Roads Worklist
All native surface roads listed in Roads Worklist.	See Roads Worklist	See Roads Worklist

502a - Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.

502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.

503 - Debris from slides shall be disposed of as specified in Roads Worklist or as directed by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

504 - Scarified material and existing road surfaces shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f and 103i.

504a - Minimum compaction required shall be 1 hour of continuous rolling for each 4 stations of road, or fraction thereof, as measured along the centerline per layer of material.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 504a.

506 - The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

507 - Existing and new drainage structures shall be replaced or placed with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.

508 - Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Section 2100 of these specifications.

509 - The finished grading shall be approved in writing by the Authorized Officer 3 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

TIMBER SALE ROAD SPECIFICATIONS

WATERING - 600

*601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.

602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications.

603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the roadbed.

605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water sources selected by the Purchaser and approved by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE BASE COURSE - 1000
CRUSHED ROCK MATERIAL

*1001 - This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.

1002a - Crushed rock materials may be obtained from a commercial source selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.

*1003 - Crushed rock material produced from gravel shall have 3 manufactured fractured faces on 75 percent, by weight, of the material retained on the No. 4 sieve.

TIMBER SALE ROAD SPECIFICATIONS

*1004 - Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004

AGGREGATE BASE COURSE
CRUSHED ROCK MATERIAL
Percentage by Weight Passing Square Mesh Sieves
(AASHTO T 11 & T 27)

GRADATION

Sieve Designation	A	I
(6) -inch	-	100
3-inch	100	45-65
2-inch	90-95	-
1 1/2-inch	-	-
1-inch	45-75	-
3/4-inch	-	-
1/2-inch	-	-
3/8-inch	-	-
No. 4	15-45	0-10
No. 8	-	-
No. 10	-	-
No. 30	-	-
No. 40	5-25	-
No. 200	2-15	-

TIMBER SALE ROAD SPECIFICATIONS

1005 - Crushed rock material shall not exceed (35) percent loss as determined by AASHTO T 96.

1006 - Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.

1007 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35, and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.

1007a - That portion of crushed rock material passing No. 4 sieve, including blending filler shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalent of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1007a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

1008 - If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

TIMBER SALE ROAD SPECIFICATIONS

1008a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

*1009 - The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved in writing by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 3 days prior to that inspection and shall be 6 days prior to start of rocking operations.

*1010 - Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 4 inches in depth for 3-0” or not to exceed 6 inches in depth for 6-0” . When more than one layer is required, each shall be shaped, processed, compacted, before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.

1010a - Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.

1012 - Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f and 103i. Minimum compaction shall be one 1 hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 1012.

TIMBER SALE ROAD SPECIFICATIONS

AGGREGATE SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

*1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.

1202a - Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.

*1203 - When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the No. 4 sieve will have 3 manufactured fractured faces.

TIMBER SALE ROAD SPECIFICATIONS

*1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE
CRUSHED ROCK MATERIAL
Percentage by weight passing square mesh sieves
AASHTO T 11 & T 27

GRADATION

Sieve Designation	C	C-1	D	D-1	E	E-1
1-1/2-inch	100	100	-	-	-	-
1-inch	-	-	100	100	-	-
3/4-inch	50-90	60-90	-	70-98	100	100
1/2-inch	-	-	-	-	-	70-98
No. 4	25-50	30-55	30-60	36-60	40-75	44-70
No. 8	-	22-43	-	25-47	-	30-54
No. 30	-	11-27	-	12-31	-	15-34
No. 40	5-25	-	5-30	-	5-35	-
No. 200	2-15	3-15	3-15	3-15	2-15	3-15

1205 - Crushed rock material shall not exceed 35 percent loss as determined by AASHTO T 96.

1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.

1206a - The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

TIMBER SALE ROAD SPECIFICATIONS

1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.

1207a - That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1207a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

TIMBER SALE ROAD SPECIFICATIONS

*1209 - Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance with the requirements of Subsections 500 for placing on the roadbed and landings. Notification for final inspection prior to rocking shall be 3 days prior to the inspection and shall be 6 days prior to start of surfacing operations.

*1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.

1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection103f. Minimum compaction shall be one (1) hour of continuous compacting for each 150 cubic yards of crushed rock material placed per layer, or fraction thereof.

NOTE: SPECIAL PROVISIONS – In-place Density and Relative Compaction Testing shall apply to Subsection 1212.

TIMBER SALE ROAD SPECIFICATIONS

SLOPE PROTECTION - 1400

*1401 - This work shall consist of furnishing, hauling, and placing stone materials (rip rap) for slope protection structures and energy dissipaters (splash pads) in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans and Roads Worklist. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense as directed by the Authorized Officer.

*1402 - Stone material shall consist of hard, durable, angular in shape quarry rock of such quality that it will not disintegrate on exposure to water or weathering and shall be graded in accordance with these specifications.

1404 - The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

TIMBER SALE ROAD SPECIFICATIONS

1405 - Rip rap shall conform to the following gradations:

TABLE 1405[1]

Class	Range of Intermediate Dimensions[2] (inches)	Range of Rock Mass[3] (pounds)	% of Rock Equal or Smaller by Count
0	6-8	18-42	100
	5-6	10-18	85
	2-5	1-10	50
	0-2	0-1	15
1	9-15	59-270	100
	7-11	28-110	85
	5-8	10-42	50
	3-6	2-18	15
2	15-21	270-750	100
	11-15	110-270	85
	8-11	42-110	50
	6-8	10-42	15
3	21-27	750-1600	100
	15-19	270-560	85
	11-14	110-220	50
	8-10	42-81	15
4	27-33	1600-2900	100
	19-23	560-990	85
	14-17	220-400	50
	9-12	59-140	15

[1]Gradation includes spalls and rock fragments to provide a stable, dense mass.
[2]The intermediate dimension is the longest straight-line distance across the rock that is perpendicular to the rock's longest axis on the rock face with the largest projection plane.
[3]Rock mass is based on a specific gravity of 2.65 (165#/cu.ft.) and 85 percent of the cubic volume as calculated using the intermediate dimension.

TIMBER SALE ROAD SPECIFICATIONS

1405a - Stone materials shall show a durability value of not less than 50 as determined by AASHTO T 210.

1405b - Stone materials shall conform to a minimum apparent specific gravity of 2.50 and a maximum absorption of 4.2 percent as determined by AASHTO T 85.

1406 - The placement of slope protection stones by the end dumping method is not permitted.

1406a - The embankment shall be placed (with excavator) in successive horizontal layers of sufficient depth to contain the maximum size rock present in the material. Spalls and finer fragments of stone other than specified in Subsection 1405 shall be used to chock the larger stones solidly in position and to fill voids between the major stones as laid in the embankment. The exposed face of the embankment shall be reasonably smooth and uniform; material shall be prevented from escaping beyond the toe of the structure.

*1407 - Determination of the acceptability of the slope protection material gradation will be through visual inspection, and/or physical measurements by the Authorized Officer.

1408 - Trenches for slope protection structures shall be excavated to the lines, elevations, and typical diagram shown on the plans. They shall be of sufficient size to permit the placing of structure footing of the full widths and length shown. Trenches shall be approved by the Authorized Officer prior to placement of slope protection material.

1408a - Foundation trenches and other required excavation as shown on the plans and Roads Worklist shall be approved prior to placing the slope protection material.

1408b - The Purchaser shall excavate unsuitable roadway material as shown on the plans, details, Roads Worklist, or directed by the Authorized Officer prior to the placement of the required rock structures.

1409 - Slope protection material shall be placed so as to form the cross sections shown on the plans.

1410 - Specified embankment slopes shall be protected and/or stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

TIMBER SALE ROAD SPECIFICATIONS

EROSION CONTROL - 1700

*1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

1703 - This work shall consist of furnishing and installing straw wattle check dams and sediment fences in accordance with these specifications and in reasonably close conformity with the requirements and details specified by the Special Provisions and as directed by the Authorized Officer.

1704 - The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.

1705 - The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 25,000 square feet without prior approval by the Authorized Officer.

1706 - The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 25,000 square feet without prior approval by the Authorized Officer.

1707 - Completed and partially completed segments of roads carried over the winter and early spring periods shall be stabilized by mulching as directed by Authorized Officer. Mulching shall be in accordance with Section 1800.

NOTE: *EXHIBIT D - The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 each year, after initial commencement of construction or logging operations.*

1708 - Newly constructed or graded roads to be carried over the winter period, shall be blocked to vehicular traffic as directed by Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

TIMBER SALE ROAD SPECIFICATIONS

SOIL STABILIZATION – 1800

*1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is not required for road acceptance under Section 18 of this contract.

1802a - Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, improvements, landings, disturbed areas, borrow sites, disposal sites, and specials areas in accordance with these specifications and as shown on the plans.

1803 - Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From: March 15	To: April 30
From: September 1	To: October 15

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Section 1700 and then complete the requirements of Section 1800 the next construction season.

The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.

1804 - The BLM shall provide native grass/forb seed.

1806 - The Purchaser shall apply the seed mixtures specified under Subsection 1804 to the corresponding seeding projects as shown on Estimate of Quantities and Roads Worklist .

TIMBER SALE ROAD SPECIFICATIONS

1806a - Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

1808 - Mulch materials conforming to the requirements of Subsections 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.

1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.

1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding will not be permitted.

1811 - The Purchaser shall furnish and apply to the areas designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806, grass seed, fertilizer, and mulch material at the following rate of application:

b. Dry Application:

Grass & Legume Seed	20 lbs./acre
Mulch	4000 lbs./acre

The above proportion and application rate are subject to adjustment by the Authorized Officer during the application operation.

TIMBER SALE ROAD SPECIFICATIONS

1812 - Mulches shall be spread/placed in treatment areas to a depth of 1 inch or as directed by the Authorized Officer. Treatment area will be covered evenly and completely. Mulch can be broadcast onto the soil surface by hand or with hand/mechanical operated spreaders.

1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.

1815 - The seed and mulch materials shall be placed by dry method in accordance with the requirements set forth in Subsection 1815b.

1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, or other approved mechanical seeding equipment may be used when seed to be applied in dry form.

1818 - The maximum horizontal distance to be seeded and mulched from the road centerline shall be 50 feet for the cut slopes and 50 feet for the fill slopes.

1819 - The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.

1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.

1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

ROADSIDE BRUSHING - 2100

*2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, and at designated locations as shown in the plans.

*2102 - Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.

*2103 - Vegetation cut manually and/or mechanically less than 6 inches in diameter when measured at D.B.H.O.B. shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.

2103a - Vegetation shall be cut and removed from the roadbed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 2 inches above the ground and running surface. Limbs below the 2 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

2104 - Trees in excess of 6 inches in diameter at D.B.H.O.B shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.

2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.

2106 - Vegetation capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.

2108 - Self-propelled equipment shall not be permitted on cut and fill slopes or in ditches.

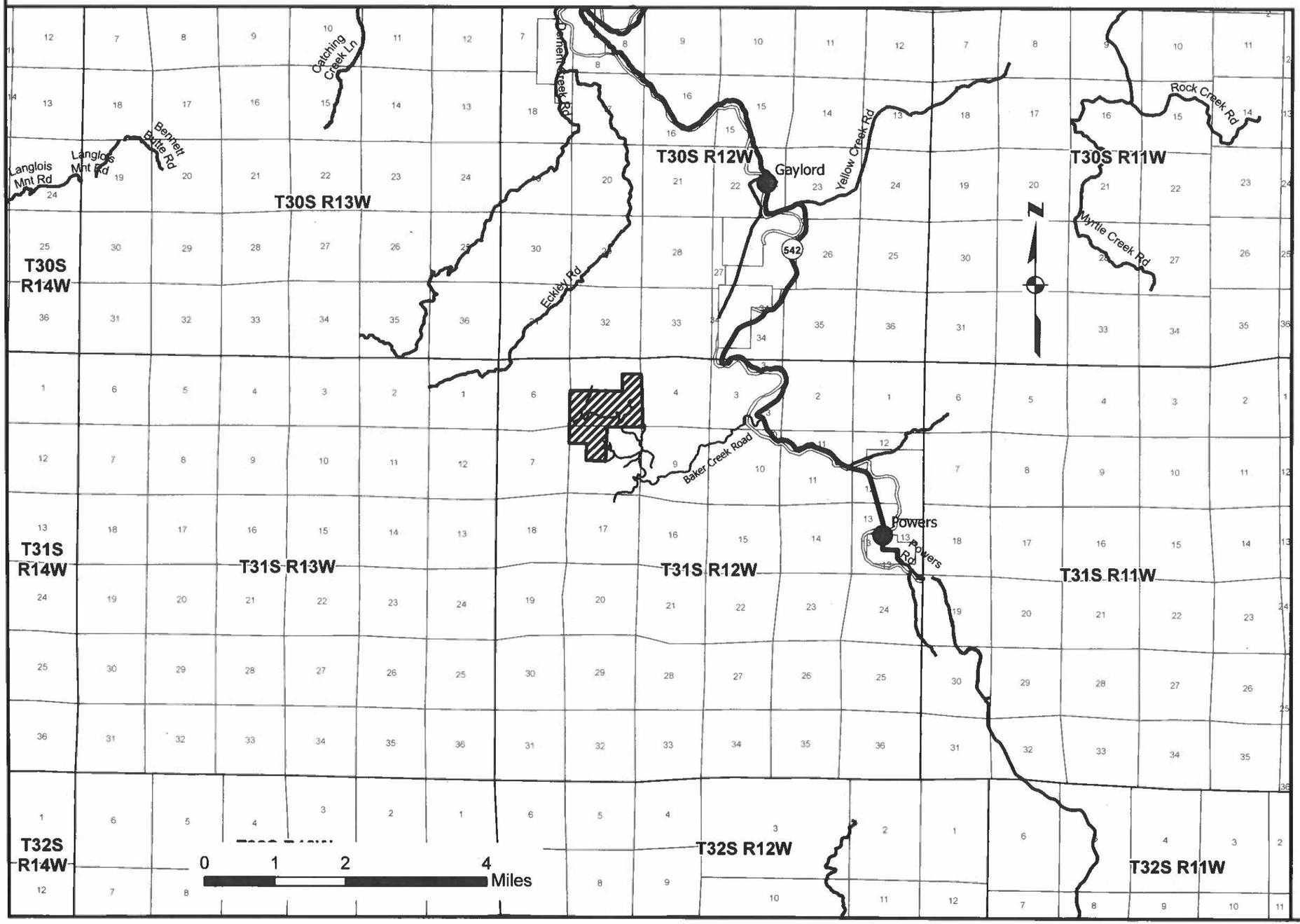
2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations or be placed against trees. Debris in excess of 1 foot in length and ½ inch in diameter shall not be allowed to remain on cut slopes, ditches, roadways, or water courses, or as directed by the Authorized Officer.

2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.

2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT D

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT
MYRTLEWOOD FIELD OFFICE



SHEET NO.	CONTENTS
1	TITLE SHEET
2	WORK LOCATION MAP
3	ESTIMATE OF QUANTITY
4	BARRIER & EROSION CONTROL DETAILS
5-11	ROAD MAINTENANCE SPECIFICATIONS

LEGEND

PROJECT AREA

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

TITLE SHEET

PREPARED: J. AGUILAR
REVIEWED: L. MURPHY
APPROVED: M. RUSSELL

DRAWN: JAA
SCALE: AS SHOWN
DATE 10/2026
SHEET 1 OF 11

ROAD NUMBER	SURFACING (*1, *2)		OTHER (*1)				
	3-0" MAINT. ROCK (*3, 4)	1.5-0" MAINT. ROCK (*6)	WATER BAR	COLD PATCH ASPHALT	EARTHEN BARRIER	RIP RAP BARRIER (*9)	SOIL STABILIZATION DRY
SECTION NO..	1000	1200	3400	3400	3400	1400	1800
UNITS	C.Y.	C.Y.	EA.	LBS.	EA.	C.Y.	ACRES
31-12-3.0							
31-12-5.1							
31-12-5.2							
31-12-8.0							
31-12-8.1							
31-12-8.5							
31-12-8.6					1		
31-12-8.7							
31-12-8.8							
31-12-9.5							
PROJECT TOTALS:		260	86	0	1	0	3.0

TREATMENT ALLOCATED TO ROAD.

(XXX) MINIMUM VALUE ALLOCATED.

*NOTE			
*	SECTION	GRADE	SIZE
4	1000	A	3-0"
5	1000	I	6-0"
6	1200	C	1.5-0"
7	1200	E1	0.75-0"
8	1400	CLASS 3	27-8"
9	1400	CLASS 4	34-28"
10	2600	ODOT LEVEL III ASPHALT	1/2" DENSE PG-64-22

*1 FOR INFORMATIONAL USE ONLY. QUANTITIES SHOWN ARE NOT PAY ITEMS.
*2 ALL ROCK QUANTITIES ARE TRUCK MEASUREMENT (LOOSE).
*3 BASE COURSE ROCK MAY BE ALLOCATED TO PURCHASER SELECT LANDINGS AND ADJACENT OPERATIONAL AREAS APPROVED BY AUTHORIZED OFFICER.

ESTIMATE OF QUANTITIES (*1)

ALWAYS THINK SAFETY

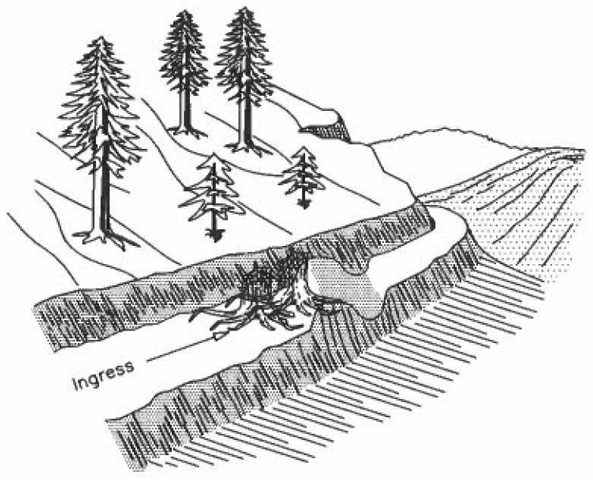
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT - OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT D ESTIMATE OF QUANTITIES

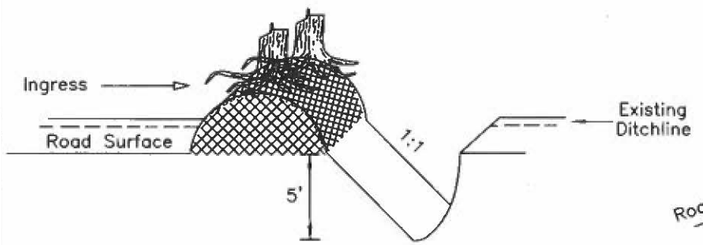
DESIGNED J. AGUILAR
REVIEWED L. MURPHY
APPROVED M. RUSSELL

DRAWN JAA | SCALE NONE
DATE 10/2026 | SHEET 3 OF 11

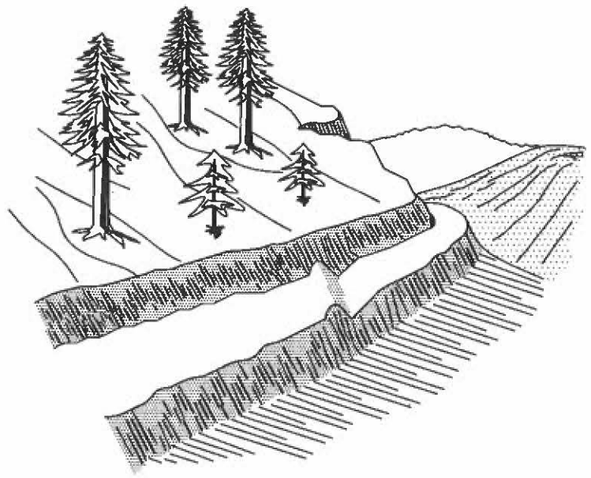
EXHIBIT D



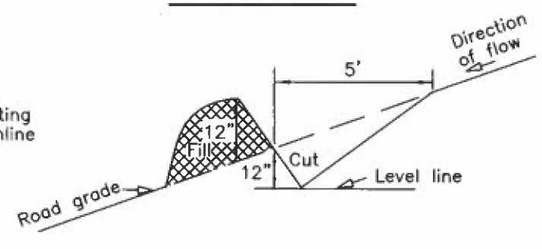
EARTHEN BERM BARRIER



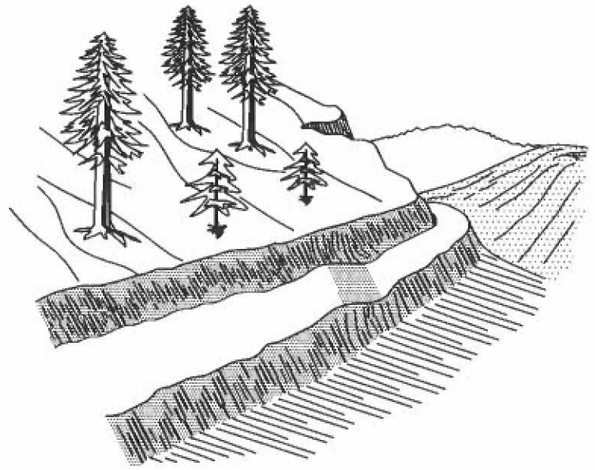
(NOT TO SCALE)



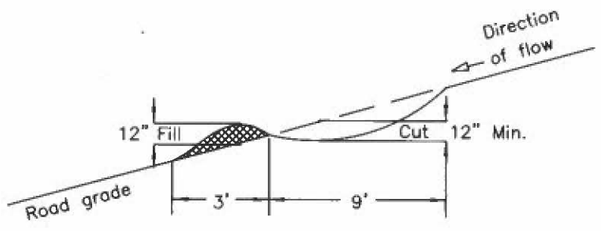
WATER BAR



(NOT TO SCALE)



WATER DIP

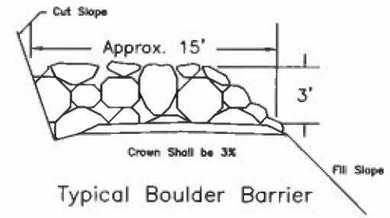


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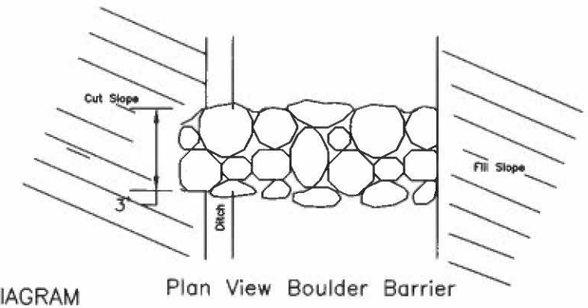
WATER DIP/BAR SPACING

ROAD GRADE	Road Class	
	Maximum Spacing (in feet)	
%	Natural	Rocked
3-5	200	400
6-10	150	300
11-15	100	200
16-20	75	150
21-35	50	100
36+	50	50

* ON GRADES IN EXCESS OF 14% CONSTRUCT WATER BARS.



Typical Boulder Barrier

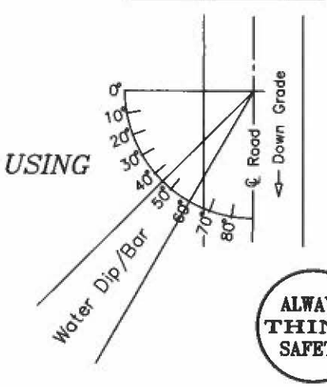


Plan View Boulder Barrier

NOTES

1. *ALL BARRIERS, WATER BARS, AND WATER DIPS AS REQUIRED SHALL BE CONSTRUCTED AS SHOWN.*
2. *LOCATIONS WILL BE AS DIRECTED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.*
3. *ALL WATER DIPS AND WATER BARS SHALL BE SKEWED 45° – 60°.*
4. *INVERT GRADE OF WATER DIPS AND WATER BARS SHALL BE OUTSLOPED A MINIMUM OF 2–5%.*
5. *ALL WATER BARS AND WATER DIPS SHALL BE CUT INTO THE ROADBED FROM THE DITCHLINE.*
6. *DITCHLINES SHALL BE BLOCKED WITH EXCAVATED MATERIAL (DITCH DAM) DOWNGRADE FROM ALL WATER BARS AND WATER DIPS.*
7. *EXCAVATED MATERIAL FROM BARRIER TRENCH (TANK TRAP) SHALL BE PLACED ON THE SIDE NEAREST THE BEGINNING OF THE ROAD.*
8. *ALL BERMS INCLUDING WATER BARS, WATER DIPS, AND EARTHEN BARRIERS SHALL BE COMPACTED TO 85% OF MAXIMUM DENSITY.*
9. *RIP RAP BARRIERS SHALL BE AT LEAST 3' HIGH, 3' DEEP, AND OF SUFFICIENT WIDTH TO COMPLETELY BLOCK THE ROADWAY AND ANY ADJACENT SHOULDERS THAT CAN BE TRAVELED WITH A VEHICLE.*
10. *RIP RAP BARRIERS SHALL BE CONSTRUCTED USING A MINIMUM OF 20 CY OF RIP RAP.*
11. *RIP RAP SHALL BE DURABLE (NOT LESS THAN 50 AS DETERMINED BY AASHTO T210), AND RANGE FROM 28"–34" IN DIAMETER.*

SKEW DIAGRAM



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U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT – OREGON

ORC04–TS–2027.0031
RYE ROWLAND RYE
BARRIER & EROSION CONTROL DETAILS

DESIGNED	J. AGUILAR
REVIEWED	L. MURPHY
APPROVED	M. RUSSELL
DRAWN JAA	SCALE NONE
DATE 10/2026	SHEET 4 OF 11

MAINTENANCE ROCK:

260 CY 1.5-0" CRUSHED AGGREGATE ALLOCATED
FOR MAINTENACE. PLACE AT DIRECTION OF AUTHORIZED OFFICER.

EXHIBIT D

- Rye Rowland Rye Timber Sale Units
- BLM Administered Land
- Private or Other Lands
- Highway
- Existing Road
- Operator Maintained - BLM Road
- Operator Maintained - Private Road
- Road Segment Break
- Gates
- Bridge
- Proposed Landing
- Barrier
- MP Milepost
- STA Station

T30S R12W

T31S R12W

JUNCTION STA 26+50 STA 0+00

STA 36+30

STA 26+60

31-12-5.2 STA 3+25

31-12-8.0 E

31-12-15.1

31-12-9.5 STA 6+25

JUNCTION MP 1.31 STA 0+00

JUNCTION MP 0.15 STA 0+00

JUNCTION MP 0.19 STA 0+00

31-12-8.0 C-D

STA 1+50

JUNCTION MP 0.83 MP 0.00

31-12-8.6 STA 10+70

31-12-8.7 STA 3+25

JUNCTION MP 0.42 MP 0.00

MP 0.67

JUNCTION MP 0.65 MP 0.00

31-12-8.1A

31-12-8.2

31-12-17.5 B

31-12-17.6

JUNCTION MP 2.61 MP 0.00

31-12-17.5A

31-12-17.3

31-12-3.0 B

31-12-17.2

31-12-3.0 A2

31-12-10.0

31-12-3.1

31-12-3.0 A1

JUNCTION MP 15.45 MP 0.00

542

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US Feet
0 750 1,500 3,000

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT D WORK LOCATION MAP

PREPARED:	J. AGUILAR
REVIEWED:	L. MURPHY
APPROVED:	M. RUSSELL
DRAWN: JAA	SCALE: AS SHOWN
DATE 10/2026	SHEET 2 OF 11

MAINTENANCE ROCK:

260 CY 1.5-0" CRUSHED AGGREGATE ALLOCATED
FOR MAINTENACE. PLACE AT DIRECTION OF AUTHORIZED OFFICER.

EXHIBIT D

- Rye Rowland Rye Timber Sale Units
- BLM Administered Land
- Private or Other Lands
- Highway
- Existing Road
- Operator Maintained - BLM Road
- Operator Maintained - Private Road
- Road Segment Break
- Gates
- Bridge
- Proposed Landing
- Barrier
- MP Milepost
- STA Station

T30S R12W

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JUNCTION STA 26+50 STA 0+00

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31-12-8.0 C-D

JUNCTION MP 0.19 STA 0+00

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JUNCTION MP 0.83 MP 0.00

31-12-8.6 STA 10+70

31-12-8.7 STA 3+25

JUNCTION MP 0.42 MP 0.00

MP 0.67

JUNCTION MP 0.65 MP 0.00

31-12-8.1A

31-12-8.2

JUNCTION MP 2.61 MP 0.00

31-12-3.1

31-12-3.0A1

JUNCTION MP 15.45 MP 0.00

31-12-3.0A2

31-12-10.0

31-12-17.6

31-12-17.5B

31-12-17.5A

31-12-17.3

31-12-3.0B

31-12-17.2

ALWAYS THINK SAFETY

US Feet
0 750 1,500 3,000

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
COOS BAY DISTRICT OREGON

ORC04-TS-2027.0031
RYE ROWLAND RYE
EXHIBIT D WORK LOCATION MAP

PREPARED:	J. AGUILAR
REVIEWED:	L. MURPHY
APPROVED:	M. RUSSELL
DRAWN: JAA	SCALE: AS SHOWN
DATE 10/2026	SHEET 2 OF 11

ROAD MAINTENANCE SPECIFICATIONS

General road maintenance specifications are designated by numeric symbols according to the type of road work to be performed, as follows:

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance

GENERAL - 3000

3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit D map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.

3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. **Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the standards required in Exhibit C of this contract.**

3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.

3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

3101 The Purchaser shall blade and shape the road surface and shoulders with a motor patrol grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.

3102 The Purchaser shall furnish and place **260 CY of 1.5-0"** crushed aggregate surfacing conforming to the requirements in Section 1200 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.

This crushed aggregate shall be used to repair surface failures, and areas of depleted surface depth, excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, and spread by use of dump trucks, water trucks, motor patrol grader, and compacted by roller compactor.

3103 The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.

3104 The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor patrol grader, rubber-tired front-end bucket loader, rubber-tired backhoe or comparable equipment, and by the use of hand tools.

3104a Removal of bank slough and slide material includes placement of material at the nearest suitable turnout or disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion.

3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (15) station yards in quantity*, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser.

Prior to removal of any slough or slide material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives

shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of work, based on current BLM Timber Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary as and no less than once per year when actual work is ongoing.

** NOTE: One station yard is 1 cubic yard of material moved 100' i.e., 15 station yards is 15 CY moved 100' or 30 CY moved 50'.*

3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe and maintaining water dips and water bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen (15) station yards in quantity, at any one site. The work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source, and method of repair. Work may commence immediately after agreement.

Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based upon current BLM Timber Sale Appraisal Production Cost Schedules. Adjustments in purchase price for completed work shall be made as necessary, and no less than once per year when actual work is ongoing.

3107 The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way, when directed by the Authorized Officer.

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road in accordance with Section 2100 and as directed by Authorized Officer.

3108 The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides, or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required by such skidding activity is not considered maintenance and shall be performed at the Purchaser's expense.

3108a The Purchaser shall perform logging operations on gravel and/or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer.

SEASONAL MAINTENANCE - 3200

3201 The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes cross ditching, blockage, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.

3202 The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.

3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any road(s) located in an area separate from the area where logging activities will resume.

3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

3301 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within 30 calendar days following the expiration of Purchaser's right to cut and remove timber (Sec. 4) and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Section 16(b), Special Provisions, Sections 3000, 3100, 3200, and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

3302 The Purchaser shall perform final road maintenance only when weather or soil moisture conditions are suitable for normal maintenance equipment operations as determined by the Authorized Officer.

If final maintenance is delayed after the date required in Subsection 3301 of this contract by adverse soil moisture or unsuitable equipment operating conditions, the Purchaser will be notified by the Authorized Officer when soil moisture and equipment operating conditions are suitable. The Purchaser shall then be required to complete final maintenance within 30 days.

OTHER MAINTENANCE - 3400

3401 The Purchaser shall repair any damage to road surfaces that was specified under

Subsections 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

3403 The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd^2 of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds^3 of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd^2 when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road Number	From Sta./M.P.	to Sta./M.P.
31-12-3.0	0.59	2.61

The Purchaser shall secure any necessary water permits and pay all required water fees for use of the water source selected by the Purchaser and approved by the Authorized Officer.

3420 The Purchaser shall perform the following work:

Road No.	Roadwork

NOTE: Rock tickets for utilized maintenance rock, shall be provided to Authorized Officer within 3 days of placement of rock.

NOTE: Any water bars, water dips, earthen berm barriers, and boulder barriers shall be constructed in accordance with Barrier and Erosion Control Details.

31-12-3.0 A1 **~** Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

31-12-3.0 A2 **~** Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Utilize 1.5-0” maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-5.1

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-5.2

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-8.0

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Utilize 1.5-0” maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

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~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-8.1

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~ Utilize 1.5-0” maintenance rock, in accordance with Section 1200 of the Exhibit C. Quantities and locations will be determined by the Authorized Officer.

31-12-8.5

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

31-12-8.6

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

~ Construct an earthen berm barrier near station 1+50, as directed by the Authorized Officer. Seed and mulch earthen berm barrier in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-8.7

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

31-12-8.8

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

31-12-9.5

~ Upon completion of all logging activities the existing roadway shall be prepared in accordance with Section 500 of the Exhibit C.

~ Upon completion of all logging activities, decommission landings at the direction of the Authorized Officer.

~ Install water bars at the direction of the Authorized Officer. No water bar will be installed closer than 50 feet to a stream crossing.

~ Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 of the Exhibit C and as directed by the Authorized Officer.

Sale: Rye Rowland Rye
Sale Date: 11/20/2026
Prep. By : JAA
Tract No: 2027.0031

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

Purchaser Maintenance Allowances:

(5.2A) Move In	$1,942.00
(5.2B) Culverts, Catch Basins, Downspouts	$2,109.94
(5.2C) Grading, Ditching	$4,113.06
(5.2F) Surface Repair (Aggregate)	$7,836.40
(5.2G) Other	$10,750.00
(5.2H) Decommissioning	$261.90

Total Cost = $27,013.30

Notes:
Quantities shown are estimates only and not pay items.
Surfacing Quantities are loose cubic yards.

Purchaser Operational Maintenance

Move In

Equipment	No Units	Move x	Cost/ in x	Dist 50 Mi x	Sub-Factor =	total
Motor Grader:	1	1		558	1.00	$558.00
Back Hoe:	1			415	0.63	$0.00
Loader:				558	0.63	$0.00
Water Truck:	1	1		138	1.00	$138.00
Dump Truck:	1	1		130	1.00	$130.00
Excavator:	1	1		558	1.00	$558.00
Roller:	1	1		558	1.00	$558.00

(5.2A) Total $1,942.00

Culvert Maintenance - Including Catch basins and Downpipes

Miles	x Cost/Mi	= Subtotal
4.10	$514.62	$2,109.94

(5.2B) Total $2,109.94

Grading (Includes Ditches and Shoulders)

Miles	x Cost/Mi	x Freq	= Subtotal
Blade w/ Ditch:	4.10	939.38	1 $3,851.46
Blade w/o Ditch:	0.46	568.71	1 $261.61

(5.2C) Total $4,113.06

Surface Repair (Aggregate)

Quarry / Source Name: Salmon 1.5-0" Surf

Production Cost:	260.0 CY x $15.71/CY		= $4,084.60
Haul to Stockpile:			
Grades > 15%	260.0 CY x (($2.56/CY x 1.00 Mi) + $0.85)	=	$886.60
Grades <= 15%	260.0 CY x (($1.28/CY x 3.00 Mi) + $0.85)	=	$1,219.40
State / Co Roads	260.0 CY x (($0.57/CY x 5.00 Mi) + $0.85)	=	$962.00
Process with Grader:	260.0 CY x $1.22/CY	=	$317.20
Compaction:	260.0 CY x $1.41/CY	=	$366.60
	SubTotal		$7,836.40

(5.2F) Total $7,836.40

Other

SOIL STABILIZATION - SEC. 1800	Lump Sum	=$3,500.00
WATER BARS - SEC. 3400	Lump Sum	=$6,500.00
WATER HAUL - MAINT. ROCK	Lump Sum	=$750.00

(5.2G) Total $10,750.00

Decommissioning

Other Costs

Road Number	Qty Earthen Barriers	= Total
31-12-8.6 C	(1x261.9)	= $261.90

(Other Cost) Total $261.90

(5.2H) Decommissioning Total $261.90

Sale Name **RYE ROWLAND RYE**

SALE VOLUME: NET 4,178 GM 4,409 Sale Number ORC04-TS-2027.0031

A. ROAD USE FEES - Payable to Private Company:

COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	USE FEE per MBF	TOTAL FEES
Agness LLC	C-509	31-12-8.0B	4,011	$0.00	$0.00
AgnessLLC	C-509	31-12-8.0B	4,178	$0.00	$0.00
AgnessLLC	C-509	31-12-8.5	167	$2.00	$334.00
				TOTAL USE FEE:	$334.00

B. MAINTENANCE FEES:

1. Maintenance and Rockwear Fees Payable to the U.S. (BLM Maintained Roads):

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	ROCKWEAR /MBF/Mile	Subtotal	MAINT+Rock $/MBF/Mile	Subtotal	TOTAL FEES
BST				0.00	$0.00	$0.92	$0.00	$0.00
			0.00		$0.00		$0.00	$0.00

2. ROCKWEAR Fees Payable to the U.S (OPERATOR Maintained Roads):

a. Timber Haul:

Surface Type	ROAD NUMBER	NET MBF	ROAD MILES	SURFACE REPLACEMENT /MBF/Mile	TOTAL FEES
ASC	31-12-8.0 E	177	0.07	$0.95	$11.77
ASC	31-12-8.0 E	723	0.11	$0.95	$75.55
NAT	31-12-5.2	686	0.06	$0.00	$39.10
ASC	31-12-8.0 E	1409	0.02	$0.95	$26.77
ASC	31-12-8.0 E	1,889	0.27	$0.95	$484.53
ASC	31-12-8.0 E	1,953	0.03	$0.95	$55.66
ASC	31-12-8.0 E	2,017	0.20	$0.95	$383.23
ASC	31-12-5.1	307	0.04	$0.95	$11.67
ASC	31-12-5.1	716	0.03	$0.95	$20.41
ASC	31-12-5.1	1193	0.23	$0.95	$260.67
ASC	31-12-5.1	1449	0.20	$0.95	$275.31
ASC	31-12-8.0E	3754	0.02	$0.95	$71.33
ASC	31-12-8.0D	3,754	0.46	$0.95	$1,640.50
NAT	31-12-9.5	257	0.05	$0.00	$0.00
ASC	31-12-8.0D	4,011	0.16	$0.95	$609.67
ASC	31-12-8.0C	4,011	0.02	$0.95	$76.21
NAT	31-12-8.6	133	0.13	$0.00	$0.00
NAT	31-12-8.7	34	0.06	$0.00	$0.00
NAT	31-12-8.6	167	0.07	$0.00	$0.00
ASC	31-12-8.0A	4,178	0.53	$0.95	$2,103.62
ASC	31-12-3.0A2	4,178	2.02	$0.95	$8,017.58
BST	31-12-3.0A1	4178	0.59	$0.00	$0.00
			5.37		$14,163.58

3. ROAD MAINTENANCE AND/OR ROCKWEAR FEES - Payable to Private Company:

Surface Type	COMPANY NAME	AGREEMENT NUMBER	ROAD NUMBER	NET MBF	ROAD MILES	MAINT+Rock $/MBF/Mile		TOTAL FEES
ASC	Doris Warner Trust	C-1041	31-12-8.8D	257	0.06	$0.95		$14.65
ASC	Agness LLC	C-509	31-12-8.8C	257	0.05	$0.95		$12.21
ASC	Doris Warner Trust	C-1041	31-12-8.8B	257	0.04	$0.95		$9.77
ASC	Agness LLC	C-509	31-12-8.8A	257	0.03	$0.95		$7.32
ASC	Agness LLC	C-509	31-12-8.5	167	0.17	$0.95		$26.97
ASC	Agness LLC	C-509	31-12-8.1B	167	0.14	$0.95		$22.21
ASC	Agness LLC	C-509	31-12-8.1A	167	0.30	$0.95		$47.60
ASC	Agness LLC	C-509	31-12-8.0B	4010	0.02	$0.95		$76.19
ASC	Agness LLC	C-509	31-12-8.0 B	4178	0.12	$0.95		$476.29
					0.14			$693.21

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX. 4.56 MILES OF ROAD. (SEE EXHIBIT D)

SUMMARY OF ROAD USE & ROAD MAINTENANCE FEES	ROAD USE FEES		ROCKWEAR & MAINTENANCE FEES		MAINTENANCE FEES	
	TOTAL	$/MBF	TOTAL	$/MBF	TOTAL	$/MBF
1. COMPANY-OWNED ROADS:	$334.00	$0.08	$693.21	$0.17		$0.00
2. BLM MAINTAINED ROADS:			$0.00	$0.00	$0.00	$0.00
3. BLM OPERATOR-MAINTAINED ROADS:			$14,163.58	$3.39		$0.00
	$334.00	$0.08	$14,856.78	$3.56	$0.00	$0.00

	TOTAL	$/MBF
MAINTENANCE OBLIGATION PAYABLE TO BLM:	$14,163.58	$3.39

United States
Department of the Interior
Bureau of Land Management

Timber Appraisal

Sale Name:	Rye Rowland Rye	**Sale Date:**	Friday, November 20, 2026
BLM District:	Coos Bay DO	**Unit of Measure:**	16' MBF
Contract #:	ORC04-TS-2027.0031	**Contract Term:**	36 months
Sale Type:	Advertised	**Contract Mechanism:**	5450-003 Lump Sum Sale of Timber and other Wood Products

Content

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

Prepared By: Blum, Jason - 10/19/2026
Approved By: Kirkland, Travis S - 10/19/2026

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Coos	31S	12W	5	SE1\4 NE1\4,NW 1\4 SW 1\4, S 1\2 SW 1\4, NE 1\4 SE1\4, S1\2 SE 1\4	Willamette
O&C	Coos	31S	12W	8	N1\2 NW1\4, SE1\4 NW 1\4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	3,332.0	3,529.0	3,676.0	40,256	3,015	9,962
Grandfir	784.0	810.0	857.0	4,780	831	1,269
Port Orford Cedar	30.0	35.0	37.0	253	69	86
Western Hemlock	17.0	17.0	17.0	391	0	130
Red Alder	15.0	18.0	18.0	215	45	87
Totals	**4,178.0**	**4,409.0**	**4,605.0**	**45,895**	**3,960**	**11,534**

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
126.0	0.0	0.0	126.0	33.2

Logging Costs

Stump to Truck	$1,067,184.97
Transportation	$249,593.49
Road Construction	$205,663.80
Maintenance/Rockwear	$41,870.08
Road Use	$334.00
Other Allowances	$141,915.94
Total:	**$1,706,562.28**
Total Logging Cost per MBF:	**$408.46**

Utilization Centers

Location	Distance	% of Net Volume
Coquille	32.3 miles	100%

Profit & Risk

Profit	11%
Risk	1%
Total Profit & Risk	**12%**

Tract Features

Quadratic Mean DBH	17.4 in
Average GM Log	94 bf
Average Volume per Acre	33.2 mbf
Recovery	90%
Net MBF volume:	
Green	4,178.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	42%
Average Yarding Slope	20%
Average Yarding Distance	250 ft
Cable Logging:	
Percent of Sale Volume	58%
Average Yarding Slope	45%
Average Yarding Distance	175 ft
Aerial Logging:	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	September 2026
Cruised By	Herron, Kirkland, Stover, Lavoie, Anctil, Blum

Cruise Method

PCMTRE # of Plots 321 Error 9.69 # Of Samples 142 # of Trees 11,534 Df 9,962 WH 130 GF 1,269 POC 86 RA 87

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF		Appraised Value ($)
Douglas Fir	9,962	3,332.0	$626.45	$75.17	$408.46	$0.00	$142.80		$475,809.60
Grandfir	1,269	784.0	$451.01	$54.12	$408.46	$0.00	$45.10	*	$35,358.40
Port Orford Cedar	86	30.0	$345.96	$41.52	$408.46	$0.00	$34.60	*	$1,038.00
Western Hemlock	130	17.0	$446.87	$53.62	$408.46	$0.00	$44.70	*	$759.90
Red Alder	87	15.0	$424.80	$50.98	$408.46	$0.00	$42.50	*	$637.50
Totals	**11,534**	**4,178.0**							**$513,603.40**

* Minimum Stumpage values were used to compute the Appraised Price/MBF (10.00% of Pond Value)

Other Wood Products

Product	Unit of Measure	# of Units	$/Unit	Appraised Value
Biomass	Green Tons	259.4	$3.00	$778.20
Totals				**$778.20**

Total Appraised Value: $514,381.60

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			1.0%	76.0%	20.0%	3.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				96.0%	4.0%		

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Port Orford Cedar				81.0%	17.0%	2.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				59.0%	29.0%	12.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill		Camp Run
Red Alder		82.0%	11.0%	7.0%			

Unit: 1

Net Volume/Acre: 33.1 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,507.0	1,597.0	1,663.0	4,507
Grandfir	354.0	366.0	388.0	575
Port Orford Cedar	13.0	16.0	16.0	38
Western Hemlock	8.0	8.0	8.0	59
Red Alder	7.1	8.5	8.5	39
Totals:	**1,889.1**	**1,995.5**	**2,083.5**	**5,218**

Regeneration Harvest	57.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**57.0**

Unit: 2

Net Volume/Acre: 33.1 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	952.0	1,008.0	1,050.0	2,846
Grandfir	224.0	232.0	245.0	362
Port Orford Cedar	8.0	10.0	10.0	25
Western Hemlock	5.0	5.0	5.0	37
Red Alder	4.0	5.0	5.0	25
Totals:	**1,193.0**	**1,260.0**	**1,315.0**	**3,295**

Regeneration Harvest	36.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**36.0**

Unit: 3

Net Volume/Acre: 34.2 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	27.0	28.0	29.0	79
Grandfir	6.0	6.0	7.0	10
Port Orford Cedar	1.0	1.0	1.0	1
Western Hemlock	0.1	0.1	0.1	1
Red Alder	0.1	0.1	0.1	1
Totals:	**34.2**	**35.2**	**37.2**	**92**

Regeneration Harvest	1.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**1.0**

Unit: 4

Net Volume/Acre: 33.4 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	106.0	112.0	116.0	316
Grandfir	25.0	26.0	27.0	40
Western Hemlock	1.0	1.0	1.0	4
Port Orford Cedar	1.0	1.0	1.0	3
Red Alder	0.5	1.0	1.0	3
Totals:	**133.5**	**141.0**	**146.0**	**366**

Regeneration Harvest	4.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**4.0**

Unit: 5

Net Volume/Acre: 33.2 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	79.0	84.0	88.0	237
Grandfir	19.0	19.0	20.0	30
Port Orford Cedar	1.0	1.0	1.0	2
Western Hemlock	0.4	0.4	0.4	3
Red Alder	0.3	0.4	0.4	2
Totals:	**99.7**	**104.8**	**109.8**	**274**

Regeneration Harvest	3.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**3.0**

Unit: 6

Net Volume/Acre: 33.1 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	238.0	252.0	263.0	712
Grandfir	56.0	58.0	61.0	91
Port Orford Cedar	2.0	2.0	3.0	6
Red Alder	1.0	1.0	1.0	6
Western Hemlock	0.5	0.5	0.5	9
Totals:	**297.5**	**313.5**	**328.5**	**824**

Regeneration Harvest	9.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**9.0**

Unit: 7

Net Volume/Acre: 33.2 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	423.0	448.0	467.0	1,265
Grandfir	100.0	103.0	109.0	161
Port Orford Cedar	4.0	4.0	5.0	11
Western Hemlock	2.0	2.0	2.0	17
Red Alder	2.0	2.0	2.0	11
Totals:	**531.0**	**559.0**	**585.0**	**1,465**

Regeneration Harvest	16.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	**16.0**

Comments:
Volume Doesn't include Hardwoods

Total Stump To Truck	Net Volume	$/MBF
$1,067,184.97	4,178.0	$255.43

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

Yarding System	Unit of Measure	# of Units of Measure	$/Unit of Measure	Total Cost	Remarks
Track Skidder	GM MBF	1,995.0	$244.79	$488,356.05	2 track Skidders, Log Loader, Processer, 3.5 Saws, 7 Loads a day, Fuel $6.00
Cable: Medium Yarder	GM MBF	2,414.0	$239.78	$578,828.92	Med Yarder, log loader, Processer, 3.5 saws 7 loads a day, fuel $6.00
Subtotal				**$1,067,184.97**	

Additional Costs

Item	Unit of Measure	# of Units of Measure	$/Unit of Measure	Total Cost	Remarks
Subtotal				**$0.00**	

Additional Moves

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

Total	Net Volume	$/MBF
$249,593.49	4,178.0	$59.74

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	$/Unit of Measure	Total Cost	% of Sale Volume
Coquille	32.3	sawlogs	GM MBF	4,409.0	$56.61	$249,593.49	100%

Engineering Allowances

Total	Net Volume	$/MBF
$247,867.88	4,178.0	$59.33

Cost Item	Total Cost
Road Construction:	$205,663.80
Road Maintenance/Rockwear:	$41,870.08
Road Use Fees:	$334.00

Comments:
Road Maintenance/Rock wear = Ex-D $27,013.30 + Ex-E $14,856.78= $41,870.08 Road Construction = Ex-C $205,663.80 Road Use Fees = $334.00

Total	Net Volume	$/MBF
$141,915.94	4,178.0	$33.97

Environmental Protection

Cost item	Total Cost
Snags	$2,580.00
Landing pullback	$3,440.22
Equip. washing	$1,625.00
Subtotal	**$7,645.22**

Fire Prevention & Control

Cost item	Total Cost
Landing pile cover	$666.00
Landing pile burn	$1,102.82
Hand pile only	$6,029.00
Machine pile and Burn	$7,019.57
SCATTER	$9,897.60
Hand pile and burn	$20,558.46
Hand pile and Cover	$21,274.10
Slash/lop	$27,002.80
Machine pile and cover	$36,821.72
Subtotal	**$130,372.07**

Logging

Cost item	Total Cost
Cut And Deck 8.7 Rw	$185.65
Cut And Deck 8.6 Rw	$1,670.85
Cut And Deck 9.5 Rw	$2,042.15
Subtotal	**$3,898.65**

Comments:
See Excel Appraisal

Form 5440-009
(April 2025)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Name of Bidder

Tract Number
ORC04-TS-2027.0031

Sale Name
Rye Rowland Rye

Sale Notice *(dated)*
10/22/2026

BLM Office
Coos Bay District

DEPOSIT AND BID FOR: (Check One):

☑ **Timber and/or Other Wood Products**
(Examples of Other Wood Products: biomass, firewood, posts, poles, etc...)

☐ **Vegetative Resources**
(Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc...)

☐ Sealed Bid for Sealed Bid Sale	☑ Written Bid for Oral Auction Sale
Deadline for accepting sealed bids ☐ a.m. ☐ p.m.	Sale commences 10:00 ☐ a.m. ☐ p.m.
On *(date)* Place	On *(date)* 11/20/2026 Place Coos Bay District Office

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated Timber and/or Other Wood Products or Vegetative Resources on the tract specified above.

Required bid deposit is $ 51,500.00 and is enclosed in the form of:

☐ cash ☐ money order ☐ cashier's check ☐ certified check ☐ bank draft

☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. If not otherwise specified in the advertisement, bids for less than the advertised price will not be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE – **TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES**
NOTE: Bidders should carefully check computations in completing the Bid Schedule

	BID SUBMITTED				**ORAL BID MADE**	
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANITY	UNIT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE	PRODUCT VALUE (Quantity X Price)
Douglas-fir	MBF	3,332	$	$	$	= $
Grand-fir	MBF	784	$ 45.10	$ 35,358.40	$	= $
Western Hemlock	MBF	17	$ 44.70	$ 759.90	$	= $
Port-Orford Cedar	MBF	30	$ 34.60	$ 1,038.00	$	= $
Red Alder	MBF	15	$ 42.50	$ 637.50	$	= $
Biomass	GT	259.4	$ 3.00	$ 778.20	$	= $
			$	$	$	= $
			$	$	$	= $
			$	$	$	= $
			$	$	$	= $
			$	$	$	= $
		TOTAL PURCHASE PRICE		$		$

(Continued on Page 2)

If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than total estimated volume or quantity shown above.

Bid submitted on *(date)*

By signing this form, the signatory is certifying the following:

- ☐ *(a) The signatory is a citizen of the United States, a partnership composed wholly of such citizens, an unincorporated association composed wholly of such citizens, or a corporation authorized to transact business in the state in which the timber is located.*
- ☐ *(b) The signatory is the age of majority in the state of the sale.*
- ☐ *(c) The signatory is an authorized representative if not signing as an individual and certifies that he or she is authorized to act as or on behalf of the bidder.*
- ☐ *(d) The signatory and any affiliates have not exported unprocessed private timber from west of the 100th meridian in the lower 48 states in the 24-months prior to the sale date shown on this form.*
- ☐ *(e) The signatory's bid was arrived at by bidder or offeror independently and was tendered without collusion with any other bidder or offeror.*
- ☐ *(f) The signatory and any affiliates are not currently suspended or debarred from contracting with the Federal government unless issued an exception by the Department's Director of the Office of Acquisition and Property Management (exception must be attached to bid form).*

Mark each box above to acknowledge each of the certifying statements and complete sections 1-3 as appropriate and sections 4 and 5:

1. Signature, if firm is individually owned	4. Name of firm *(type or print)*
2. Signatures, if firm is a partnership or L.L.C. i. _____ ii. _____	5. Business address, include zip code *(type or print)*
3. Corporation - organized under the state laws of: Signature of Authorized Corporate Officer: _____ Title: _____	*(To be completed following oral bidding)* I HEREBY confirm the above oral bid By *(signature)*: Date

Submit bid to qualify for either an oral auction or sealed bid sale, together with the required bid deposit.
Make remittance payable to: "Department of the Interior – BLM"

Oral Auction – Submit to Sale Supervisor prior to closing of qualifying period for tract.
Sealed Bid – Send to Contracting Officer, who issued the sale notice, in a sealed envelope marked on the outside with:

(1) "Bid for Timber and/or Other Wood Products" or "Bid for Vegetative Resources" depending on the products being sold.
(2) Time bids are to be opened.
(3) Legal description.
(4) Sale name and number.

NOTICES

The Privacy Act and the regulations in 43 CFR 2.223(d) require that you be furnished with the following information:

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

PRINCIPAL PURPOSE: To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

ROUTINE USES: To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for Timber and/or Other Wood Products or Vegetative Resources.

(Continued on Page 3)

INSTRUCTIONS TO BIDDERS

1. AUTHORITY – Timber and/or Other Wood Products or Vegetative Resources, located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 2601); Timber and/or Other Wood Products or Vegetative Resources located on other public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of Timber and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. QUALIFICATIONS OF BIDDERS – A bidder for sale of Timber and/or Other Wood Products or Vegetative Resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the state in which the Timber and/or Other Wood Products or Vegetative Resources are located.

3. INSPECTION OF TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES – Bidder is invited, urged, and cautioned to inspect the Timber and/or Other Wood Products or Vegetative Resources prior to submitting a bid. By executing the Timber and/or Other Wood Products or Vegetative Resources sale contract, bidder warrants that the contract is accepted on the basis of his/her examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his/her opinion of its value.

4. DISCLAIMER OF WARRANTY – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or Vegetative Resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of Timber and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

5. BIDS – Each Sealed or written bid for Timber and/or Other Wood Products or Vegetative Resources must be submitted to the Contracting Officer who issued *Timber and/or Other Wood Products or Vegetative Resources Sale Notice.*

(a) *Sealed Bid Sales* – Bids will be received until time specified in the Advertisement. Enclose the bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber and/or Other Wood Products or Vegetative Resources*, time bid is to be opened, timber sale name and number, and legal description of land on which Timber and/or Other Wood Products or Vegetative Resources are located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) *Oral Auction Sales* – Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his/her bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his/her bid, in writing, immediately upon being declared high bidder.

(c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of Timber and/or Other Wood Products or Vegetative Resources remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.

(d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.

6. BID FORMS – All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.

(a) *Timber and/or Other Wood Products or Vegetative Resources Sales* – For each product and species, bids shall specify (1) Bureau of Land Management estimated unit volume or quantity, (2) bidder's price per unit and total value, and (3) bidder's total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, the high bidder agrees to pay the Government for the Timber and/or Other Wood Products or Vegetative Resources designated for removal in accordance with the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than the total estimated volume or quantity shown above.

7. BID DEPOSIT – All bidders must make a deposit of not less than the amount specified in the *Timber and/or Other Wood Products or Vegetative Resources Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior – BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department (*Applies To Timber Only*), or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder shall be applied toward the required sale deposit and/or the purchase price. If the BLM fails to award the timber sale within 90 days of the determination of the high bidder, a portion of the bid deposit may be refunded to the high bidder upon written request to the authorized officer, such that the BLM retains a deposit of at least 5% of the appraised value. The remainder of the full bid deposit must be resubmitted to the BLM once the high bidder is notified in writing that the delay of award has been remedied and the authorized officer is prepared to issue the contract. If the high bidder is unable to provide the full amount of the bid deposit within 30 days of the written notification, the sale may be re-auctioned and the high bidder will be barred from participating in any subsequent auctions for the same tracts.

8. AWARD OF CONTRACT – Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he/she is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract. If contract award is delayed more than 90 days, half of the bid deposit may be refunded to the high bidder until the sale award process resumes.

9. TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES SALE CONTRACTS – To be executed by purchaser, has been prepared by Government, and may be examined in the District or Field Manager's office.

(Continued on Page 4)

10. PERFORMANCE BOND – (Primarily Used For Timber Sales)

(a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of $500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Contracting Officer.

(b) If purchaser elects to cut Timber and/or Other Wood Products or Vegetative Resources without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of Timber and/or Other Wood Products or Vegetative Resources to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting Timber and/or Other Wood Products or Vegetative Resources covered by the bond increase. This increased amount of bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources cut in advance of payment.

11. PAYMENT BOND – (Primarily Used For Timber Sales)

If purchaser elects to (a) cut and remove Timber and/or Other Wood Products or Vegetative Resources, or (b) remove Timber and/or Other Wood Products or Vegetative Resources already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of Timber and/or Other Wood Products or Vegetative Resources covered by the bond. Payment bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources cut and/or removed in advance of payment.

12. PAYMENT OF PURCHASE PRICE – For sales of $500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any Timber and/or Other Wood Products or Vegetative Resources sold may be severed, cut, or removed unless advance payment has been made as provided in contract.

13. LIQUIDATED DAMAGES – Within thirty (30) days from receipt of *Timber and/or Other Wood Products or Vegetative Resources* Sale Contract, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his/her bid deposit shall be retained by Government as liquidated damages.

14. NINETY-DAY SALES – If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of Timber and/or Other Wood Products or Vegetative Resources, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

15. UNAUTHORIZED USE OF GOVERNMENT PROPERTY – A sale may be refused to high bidder who has been notified that he/she has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

16. [RESERVED]

17. LOG EXPORT – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and any exporters of unprocessed private timber west of the 100th meridian in the contiguous 48 states within 24-months of the sale date are not eligible to purchaser Federal Timber west of the 100th meridian in the contiguous 48 states. For the purpose of this contract, unprocessed timber is defined as:

(1) any logs except those of utility grade or below, such as saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better.

Timber manufactured into the following will be considered processed: (1) Lumber or construction timbers, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on four sides, not intended for remanufacture; (2) Lumber, construction timbers, or cants for remanufacture, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on four sides, not to exceed twelve inches in thickness; (3) Lumber, construction timbers, or cants for remanufacture, except western red cedar, that do not meet the grades referred to in subclause 2 and are sawn on four sides, with wane less than ¼ of any face, not exceeding 8¾ inches in thickness; (4) Chips, pulp, or pulp products; (5) Veneer or plywood; (6) Poles, posts, or piling cut or treated with preservatives for use as such; (7) Shakes or shingles; (8) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (9) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 saw logs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

18. DETAILED INFORMATION – Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the Contracting Officer. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.

NOTICE OF LITIGATION

The Northwest Coastal Resource Management Plan covering the **Rye Rowland Rye** timber sale, contract number **ORC04-TS-2027.0031**, has been litigated. The court's decision is pending. The Bureau of Land Management (BLM) will proceed with normal bidding on the tracts.

Although the BLM does not know at this time what the court's decision will be, the BLM is providing this notice to advise all bidders that significant delays may occur before award of the contract or before any operations may be undertaken. Additionally, an adverse ruling may require the BLM to suspend, cancel, or modify the contract. The Authorized Officer retains the right to reject all bids associated with this tract.

To ensure that this notice is understood, the high bidders for each contract must sign the acknowledgement below and submit this document to the BLM to confirm your bid.

I acknowledge receipt of a copy of this notice and understand that because of the *Cascadia Wildlands v. Burgum et al*., Case 6:26-cv-01262-AP lawsuit in U.S District Court, District of Oregon, any decision to award the Rye Rowland Rye timber sale, contract number ORC04-TS-2027.0031, may be significantly delayed, or operations suspended, and that the BLM has authority under 43 CFR 5442.3 to reject all bids if the Government determines it is in the Government's interest to do so.

Company Name _____

By _____

Title _____

Date _____