

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Northwest Oregon District Office
1717 Fabry Road, S.E.
Salem, Oregon 97306**

**RD Priceless
ORN01-TS-2024.0104
Date: April 22, 2024**

TIMBER SALE PROSPECTUS

THIS IS A PROSPECTUS ONLY. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE NORTHWEST OREGON DISTRICT OFFICE.

NOTICE IS HEREBY GIVEN that the Bureau of Land Management will offer for sale timber as described herein for oral auction, pursuant to Instructions to Bidders, as stated on Form No. 5440-9. Written and oral bids will be received by the District Manager, or designated representative, in the timber sale room at the District Office, 1717 Fabry Road, S.E., Salem, Oregon. Written bids and deposits will be accepted beginning at 8:30 a.m. and the timber sale oral auction will commence at 9:00 a.m., on Wednesday, May 22, 2024. Before bids are submitted, full information concerning the timber, the conditions of sale and submission of bids, including appraised prices per species, should be obtained from the above District Manager, or designated representative. The right is hereby reserved to waive technical defects in this advertisement and to reject any or all bids. The United States reserves the right to waive any informality in bids received whenever such waiver is in the interest of the United States.

THIS PROSPECTUS does not constitute the decision document for purposes of appeal of a forest management decision. Consistent with 43 CFR Subpart 5003.2(b), the date the BLM posts the forest management decision on the BLM's ePlanning website establishes the effective date of the decision for purposes of an administrative appeal. The decision was posted to the BLM's ePlanning website on 02/20/2024, referring to the RD Priceless Vegetation Management Project, DOI-BLM-ORWA-N010-2023-0001CX. For the purposes of 43 CFR 5401.0-6 and 5430.0-6, this advertisement is being published on 04/22/2024 and 04/29/2024.

A CATERGORICAL EXCLUSION was prepared for this timber sale tract. This document is available for inspection as background at the Northwest Oregon District Office.

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

THE SUCCESSFUL BIDDER, as a condition of award, will be required to sign Form 5430-11, a certification that the bid was arrived at by the bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. Also, Form 5450-17, Export Determination must be completed by the successful bidder. To expedite procedure, this form should be completed and submitted with the written bid.

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

THIS TIMBER SALE has been cruised based upon Eastside Scribner board foot measure. The minimum bid figures shown by species are dollars per thousand board feet (MBF). The minimum bid increment will be \$0.10 per MBF.

A PERFORMANCE BOND in an amount not less than 20 percent of the total purchase price will be required for all

contracts of \$2,500 or more. A minimum performance bond of not less than \$500 will be required for all installment contracts less than \$2,500.

QUALIFIED SMALL BUSINESS concerns may apply to SBA for a loan to provide financing for access road construction required under the terms of qualifying timber sale contracts, and necessary contract changes will be made. Approval of loan applications rests with SBA and may be contingent on availability of funds. Applicants for such loans shall notify BLM of their intention to apply for a loan.

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

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 5420, as amended.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS: Excepting Port-Orford-cedar, all timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and is prohibited from being used as a substitute for exported private timber. The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CONTRACT MODIFICATION, SUSPENSION OR TERMINATION: A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), or; (2) Comply with a court order, or; (3) Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction established in the ROD and RMP.

ADDITIONAL INFORMATION concerning this timber sale tract is available at the above District Office. A copy of the timber sale contract is also available for inspection at the District Office. The prospectus for this/these sale(s) is also available online at: <https://www.blm.gov/programs/natural-resources/forests-and-woodlands/timber-sales>. The prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Northwest Oregon District Office at 503-375-5646.

TIMBER SALE NOTICE
SCALE SALE

NORTHWEST OREGON DISTRICT
CASCADES FIELD OFFICE
SALEM DISTRICT MASTER UNIT

SALE DATE: May 22, 2024

CONTRACT NO. ORN01-TS-2024.0104, **RD PRICELESS: SCALE SALE:**
CLACKAMAS COUNTY: OREGON: O&C: ORAL AUCTION: BID DEPOSIT REQUIRED: **\$17,500.00.**

All timber designated for cutting on N1/2NW1/4, Section 15 and N1/2NE1/4, W1/2NW1/4, NW1/4SW1/4, Section 16, T. 2 S., R. 6 E., W.M.

THIS TIMBER SALE HAS BEEN CRUISED BASED UPON EASTSIDE SCRIBNER MEASURE.

Minimum bid figures shown by species are dollars per thousand board feet (MBF). The minimum bid increment will be \$0.10 per MBF.

Approx. No. Merchantable Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Volume Times Appraised Price
4,807	1,717	western hemlock	2,117	*\$42.20	\$89,337.40
810	324	Douglas-fir	377	\$209.00	\$78,793.00
575	29	red alder	40	*\$37.70	\$1,508.00
37	11	western red cedar	14	\$340.70	\$4,769.80
70	3	bigleaf maple	5	*\$20.10	\$100.50
6,299	2,084		2,553		\$174,508.70

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

LOG EXPORT AND SUBSTITUTION RESTRICTIONS: All timber offered for sale hereunder is restricted from export from the United States in the form of unprocessed timber and also prohibited from substitution of exported private timber.

CRUISE INFORMATION: The timber volumes in the Partial Harvest Area was based on a variable plot cruise for estimating the board foot volume of trees. Plots were measured using a 40 basal factor. Approximately 0% of the total sale volume is salvage material. With respect to merchantable trees of all species; the average tree is 18.2 inches DBHOB; the average log contains 75 bd. ft.; the total gross volume is approximately 2,714 MBF; and 94% recovery is expected.

CUTTING AREA: Two (2) units totaling 60 Acres of Partial Harvest Area as shown on Exhibit A have been computed using Global Positioning System. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

DURATION OF CONTRACT: Will be 36 months for cutting and removal of timber.

DIRECTIONS/ACCESS:

For access to the sale area please refer to the Timber Sale Vicinity Map and Exhibit D. Gate keys or combo are required for access to Units 1 and 2. Prospective bidders may obtain a key or combo by contacting Cameron Minson at 503-302-1860.

ROAD USE:

The Purchaser is authorized to use the roads shown Exhibit D which are under the jurisdiction of the Bureau of Land Management, for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C and D. The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.

In the use of Kenneth & Eileen Spencer and James & Susan Wolf controlled roads which the Purchaser is authorized to use, the Purchaser shall perform all required road maintenance and surface rock replacement.

In the use of Dodge Logging, Inc. controlled roads which the Purchaser is authorized to use, the Purchaser shall enter into a road agreement with Dodge Logging, Inc. and perform all required road maintenance and surface rock replacement. The Purchaser is required to carry liability insurance with limits of \$1,000,000/\$1,000,000/\$1,000,000 and a \$500.00 performance bond.

ROAD MAINTENANCE, RENOVATION AND CONSTRUCTION:

The Purchaser will be required to do all work set forth below. The Purchaser shall supply all materials unless otherwise indicated. All earth moving equipment to be washed prior to entry onto BLM lands. **All roads with insufficient aggregate to withstand wet weather haul may be rocked at the Purchasers expense.**

Pre-haul Maintenance:

- **2-6E-22.1, -16.1, -16.3:** 4.2 miles of brushing, ditch/culvert cleaning, grading, and rolling.
- **2-6E-22.1:** 260 LCY of spot-rocking.
- **2-6E-22.1 and -16.0:** Installation of five 18" ditch-relief culverts.

Renovation:

- **2-6E-16.0 and -16.6:** 0.62 miles of clearing/grubbing running surface, shape with grader, compact with roller, seed all exposed cut/fill slopes.
- **2-6E-16.0:** Installation of one 18" ditch-relief culvert.

Operational Maintenance:

Frequent blading and shaping of road surface, surface rock replacement, ditch, culvert, and catch basin cleaning, removal of minor slides, blow-down trees and other debris. Roads shall be left in a condition to withstand adverse weather at the end of each seasonal operation. Purchaser shall also be responsible for performing post storm inspections and maintenance during the winter season for all Purchaser maintained roads. The Purchaser will be required to furnish and place or stockpile at least **200 CY** of aggregate prior to contract termination.

SPECIAL ATTENTION ITEMS:

- | | |
|--------------|--------------------------------------|
| Sec. 43.a-g. | Reserved Timber |
| Sec. 44.e. | Seasonal Restriction for Wet Weather |
| Sec. 44.n. | Snag Creation Requirements |
| Sec. 44.r. | Buyout Securities |

TIMBER SALE CONTRACT RESERVATIONS AND SPECIAL PROVISIONS

Sec. 43. Timber Reserved from Cutting

RESERVED

- a. All timber in the Reserve Area shown on Exhibit A and all orange painted trees which are on or mark the boundaries of the Reserve Area.
- b. All timber marked with orange paint above and below stump height in the Partial Harvest Area shown on Exhibit A, except approximately 20 trees marked for cutting with blue paint.
- c. All timber inside the area posted as "Leave Island" as shown on Exhibit A.
- d. All existing snags and down logs which do not present a safety hazard as determined by the Authorized Officer. Snags felled for safety reasons shall be retained on site.
- e. In the Partial Harvest Area shown on Exhibit A, any reserved tree, twenty (20) inches diameter or larger, that must be cut to facilitate logging shall be left on site for course woody debris.
- f. All conifer trees less than 7" DBH within the Partial Harvest Area as shown on Exhibit A. Any 7" DBH conifer cut or moved shall be retained on site.
- g. All hardwoods marked with orange paint above and below stump height in the within the Partial Harvest Area as shown on Exhibit A.

Sec. 44. Special Provisions

LOGGING

- a. Before beginning operations on the contract area for the first time or after a shutdown of seven (7) 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 seven (7) or more days.
- b. Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. A pre-work conference between the Purchasers authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan developed by this provision.
- c. In Partial Harvest Area – all yarding shall be done by equipment capable of transporting the leading end of logs clear of the ground and operated entirely on designated skid roads and/or skyline corridors. Before felling and yarding any timber, except road right-of-way timber, the Purchaser shall locate designated skid trails and/or skyline corridors as follows:

1. Identify the location of designated skid roads and/or skyline corridors in a method approved by the Authorized Officer.
 2. Space designated skid roads and/or skyline corridors at a minimum of one-hundred and fifty (150) feet apart unless otherwise agreed to in writing by the Authorized Officer.
 3. Limit width of skid roads and/or skyline corridors to twelve (12) feet.
 4. Ground-based operations are limited to slopes of thirty-five (35) percent or less. Ground-based operations may be approved on slopes up to fifty (50) percent when using specialized equipment, operating on previously constructed skid trails, or accessing isolated areas over steep pitches.
- d. Excessive damage to the reserve timber, as determined by the Authorized Officer, will result in suspension of operation until mitigation measures are in place to prevent further damage as directed by the Authorized Officer.
- e. No skidding between October 15th of one calendar year and May 15th of the following calendar year both days inclusive or during other periods of wet weather. This may be shortened or extended as determined by the Authorized Officer.
- f. No in-stream work shall be conducted between October 15th of one calendar year and June 1st of the following calendar year both days inclusive to protect water quality.

ROAD RENOVATION, MAINTENANCE, AND USE

- g. The Purchaser shall renovate and maintain roads in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof. All roads with insufficient rock surfacing to allow for wet weather haul may be rocked at the Purchasers expense with prior approval of the Authorized Officer. Any required renovation or maintenance of structures and roads shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber over that road. The Purchaser shall not commence work until receipt of written notice to do so from the Authorized Officer.
- h. The Purchaser is authorized to use the roads shown as Approved Haul Route – Purchaser Maintenance on Exhibit D for the removal of Government timber sold under the terms of this contract and the hauling of rock as required in Exhibit C and D provided that the Purchaser perform the required maintenance described in Sec. 44.i-k.
- i. The Purchaser shall perform any required road repair and maintenance work on roads identified as Purchaser maintenance, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- j. In the use of Road No. 2-6E-22.1 segment A1(part), the Purchaser shall comply with the conditions of Road Easement No. S-802 (Serial No. OROR024424) dated June 4, 1980, between the United States of America and Kenneth L. Spencer, Eileen K. Spencer, James W. Wolf, and Susan D. Wolf. This document is available for inspection at the Northwest Oregon District Office in Salem.

These conditions include:

- (1) Road shall be maintained by Purchaser including surface rock replacement.
- (2) Purchaser shall leave road in as good condition as prior to use.

k. In the use of Road No. 2-6E-22.1 segment A2, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. S-31 (Serial No. OROR046967) dated December 17, 1950, between the United States of America and Walter E. Koch, and subsequently sold to the current landowner Dodge Logging, Inc. This document is available for inspection at the Northwest Oregon District Office in Salem.

These conditions include:

- (1) Road 2-6E-22.1 segment A2 shall be maintained by Purchaser including surface rock replacement.
- (2) Purchaser shall carry liability insurance coverages \$1,000,000/\$1,000,000/\$1,000,000 and performance bond of \$500.00.
- (3) Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed Road Agreement.

Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

ENVIRONMENTAL PROTECTION

l. In order to prevent the spread of noxious weeds, the Purchaser shall pressure wash all earth disturbing equipment and logging equipment prior to entry onto BLM lands as directed by the Authorized Officer. Cleaning shall be defined as removal of all dirt, grease, plant parts and material that may carry noxious weed seeds. Equipment shall be inspected by the Authorized Officer at a site approved by the Authorized Officer to verify that the equipment had been reasonably cleaned prior to entry onto BLM lands.

m. In additions to the requirements set forth in Sec. 26 of this contract, the Purchaser shall cover skid trails with logging slash and debris, install water bars or comparable erosion control measures, and block entrances or other created access points on the contract areas shown on Exhibit A as directed by the Authorized Officer. This work shall be completed within fifteen (15) days after completion of log hauling from each landing.

n. The Purchaser shall saw top up to twenty (20), top girdle up to twenty (20), and base girdle up to twenty (20) green, reserve conifer trees as selected and determined by the Authorized Officer in Partial Harvest Area and Leave Island shown on Exhibit A. Tree topping and base girdling shall be

completed in accordance with Exhibit I of this contract and as determined by the Authorized Officer. All topping and girdling operations shall be completed to the satisfaction of the Authorized Officer within one year after yarding is completed and within thirty (30) days after being notified by the Authorized Officer to commence topping and girdling operations.

FIRE PREVENTION

o. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during the fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer. Purchaser shall take such measures for prevention and suppression of fire on the contract area and other adjacent Government lands used or traversed by Purchaser in connection with operations as are required by applicable laws and regulations. However, when in the opinion of the Authorized Officer, weather and other conditions affecting fire incidence and control make special precautions necessary to protect the contract area and said Government lands, Purchaser shall take such additional or other fire prevention and control measures as may be required by the Authorized Officer. The Purchaser shall comply with Oregon Department of Forestry Industrial Fire Precaution Level (IFPL) I Fire Season requirements. At IFPL II and III, additional fire prevention and control provisions may be added as determined by the Authorized Officer and specified in written instructions to the Purchaser to mitigate dry fuel and weather conditions.

LOGGING RESIDUE REDUCTION

p. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchasers satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the States willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure(s) required by this contract: Perform logging residue reduction and site preparation work on seventeen (17) acres located within harvest units. 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. Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchaser's operations under the terms of this contract.

1. Excavator pile and burn slash where ground base logging operations in harvest areas 25 feet off both sides of all roads in harvest units, within wildlife gaps and where hazardous fuel concentrations exist. All is designated areas slash shall be piled by an excavator equipped with a hydraulic thumb. Finished piles shall be tight and free of dirt.

a) Unmerchantable logs greater than six (6) inches on the small end shall be left in place or positioned so that they will not be burned.

b) Machine piles shall be located as far as possible from green trees, snags, or unit boundaries to minimize damage.

c) Machine piles shall be kept free of dirt and other non-wood debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels.

d) A minimum 10-foot by 10-foot cover of four (4) mil. polyethylene shall cap each machine pile to maintain a dry ignition point at the top of the pile. The cover shall be firmly fixed to each pile to hold it in place and not folded over so the plastic is smaller than 10-foot by 10-foot. Plastic shall be held in place with woody debris or tied with rope or twine. The plastic must be secured so that it is held in place during strong wind conditions. The Purchaser is required to furnish the covering materials. Covering shall be completed as directed by the Authorized Officer.

e) Cutting Area shall be piled during the same season that they are logged.

2. Lop & Scatter shall be completed as directed by the Authorized Officer.

a) All logging slash and slashed woody vegetation that is greater than four (4) feet in length and between one (1) inch and six (6) inches in diameter shall be lopped if not being machine piled. Larger material which has a portion meeting this specification must be bucked at the six (6) inch diameter.

b) Fuels concentrations within harvest areas shall be spread out to nonhazardous levels to reduce fire hazard while allowing for site prep for planting.

q. Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein and measures required in Section 44.p. The Purchaser shall, under supervision of the Authorized Officer or designated representative, assist in preparing units for burning, burning, mop-up, and patrol by furnishing, at the Purchaser's own expense, the services of personnel and equipment on each unit as shown below:

1. For Igniting, Burning, Mop-up of Piles on Units:

a. One work leader(s) Firefighter Type 1 (FFT1) qualified according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1) to supervise crew and equipment operations, and to serve as Purchaser's representative.

b. Two-person crew Firefighter Type 2 (FFT2) qualified according to National Wildfire Coordination Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1, with sufficient fuel for burning, four (3) drip torches, one (1) power saw, and one (1) backpack pump, one (1) tool for each crew member.

c. The crew shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.

d. All ignition and mop-up personnel will be directly supervised by a BLM representative.

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

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

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

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

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

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

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide the personnel and equipment required herein, the Purchaser shall be responsible for all additional cost incurred

by the Government in disposing of slash including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment and appropriate additional overhead expenses. If the Purchaser's failure results in a deferral of burning and new conditions necessitate additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

BUYOUT SECURITIES

r. The Purchaser shall assist the Government in pile burning of slash in accordance with Section 44.q. The Purchaser shall have the option of completing this work, or in lieu thereof, may make a buyout security deposit to the Bureau of Land Management in the amount of two thousand forty-nine and 86/100 dollars (\$2,049.86), and upon making such deposit, the Purchaser shall be relieved of the pile burning obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

LOG EXPORT RESTRICTIONS

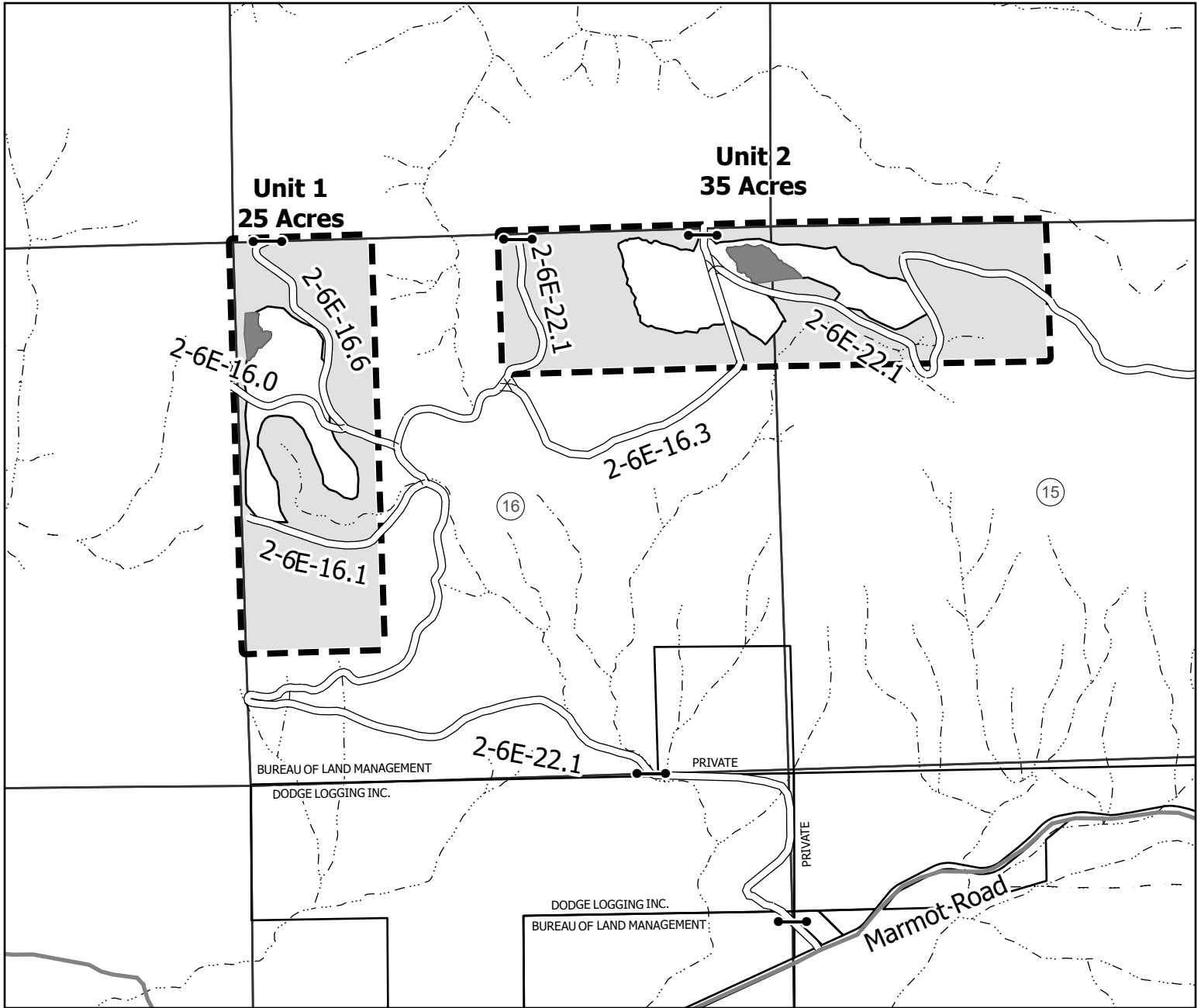
s. Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs on timber loads. One end of all branded logs to be processed domestically will be marked with a 3 square inch spot of highway yellow paint. The purchaser will stop trucks 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. If Contract Area is within a State that maintains a log brand register, brands shall be registered with the State and Purchaser shall use assigned brand(s) exclusively on logs from this contract until the Authorized Officer releases the brand(s).



UNITED STATES DEPARTMENT OF THE INTERIOR
 Bureau of Land Management
 Northwest Oregon District

Exhibit A
 RD Priceless
 Timber Sale
 Sheet 1 of 1

TIMBER SALE CONTRACT MAP - ORN01-TS-2024.0104
 T. 2 S., R. 6 E., Sections 15, 16; W.M.



--- Stream

● Gate

— County Road

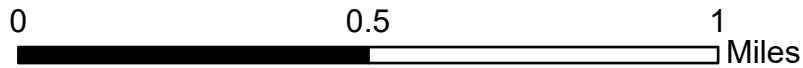
== Existing Road

□ Partial Harvest Area

■ Leave Island

▨ Reserve Area

⌚ Contract Area



N



Partial Harvest Area	60 Acres
Leave Islands	6 Acres
Road Right-of-Way	0 Acres
Reserve Area	280 Acres

Contract Area 346 Acres

Unit boundaries are painted orange and posted. Acres do not include existing or new roads. Acreage was calculated based on global positioning system traverse procedures including differential correction.

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Contract No.: ORN01-TS-2024.0104

Sale Name: RD Priceless

**Issuing Office: Northwest Oregon
District, Cascades Field Office**

**EXHIBIT B
SCALE SALE**

PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

I. **Timber and Other Wood Products Sold** - In accordance with Section 2 and 3, the Purchaser agrees to pay the Government for the timber and other wood products sold under the contract in accordance with the following schedule, measurement standards, and requirements. Wood products sold is comprised of Timber, Other Wood Products, and Timber and Other Wood Products Remaining as defined below. In the event an Extension of Time is approved, the prices per measurement unit may be subject to readjustment in accordance with Section 9 of the contract.

Timber Schedule		
Species	Unit of Measure	Price Per Measurement Unit
western hemlock	MBF	\$42.20
Douglas-fir	MBF	\$209.00
red alder	MBF	\$37.70
western red cedar	MBF	\$340.70
bigleaf maple	MBF	\$20.10

The Authorized Officer shall establish unit of measure and price per measurement unit, in accordance with standard Bureau of Land Management (BLM) procedures, for any species or products not listed in this Exhibit that are cut or removed from the contract area.

II. **Timber** – Includes standing trees, downed trees or logs, or portions thereof, which can be cut into logs that equal or exceed the specifications below.

All logs defined below, which have not been reserved to Government in Section 43 of the contract, shall be designated as timber under this contract. Logs or portions of logs which equal or exceed all the following minimum log specifications shall be considered timber sold. The Purchaser shall pay for all timber removed in accordance with Section 3 of the contract at the price per measurement unit shown in Section I of this Exhibit.

- Log or portion of a log that is:

- One third (1/3) sound.
- Small End Diameter Inside Bark (DIB) – Five (5) inches
- Length – Eight (8) feet four (4) inches

III. Other Wood Products – Includes timber and other woody material not meeting the timber specifications above (i.e., pulp, biomass, chips, hog fuel).

If Purchaser removes any products or species which do not meet the minimum log specifications for timber in Section II, such material shall be considered other wood products. Purchaser shall pay for other wood products in accordance with Section 3 of the contract at the price per measurement unit shown in Section I of this Exhibit.

IV. Timber and Other Woods Products Remaining - The remaining volume of any timber or other wood products, which have not been reserved to Government in Section 43 of the contract, shall be determined as provided in Section 3(g) of the contract using specifications set forth in the table below. The Purchaser shall pay for the sum of all remaining volume in accordance with Section 3 of the contract at the unit prices shown in Section I of this Exhibit.

Left Standing Timber N/A	Felled Timber Not Removed
Diameter at Breast Height (DBH): N/A	Small End DIB: 5”
Log Height: N/A	Log Length: 8’ 4”
% Sound: N/A	% Sound: 33.3
Net Tree Volume: N/A	Net Log Volume: 10 Bdft

V. Measurement Standards

1. **Log Scaling Loads:** All species or products in Section I, with MBF as the Unit of Measure shall be designated as log scaling loads.
 - a. Log scaling services shall be provided and performed by BLM Certified Scalers or BLM-authorized Third-Party Scaling Organizations (TPSO), as determined by the Authorized Officer. The Purchaser’s employees or contractors may not perform log scaling.
 - b. All logs shall be scaled in Eastside Scribner Log Rules according to the Official Log Scaling and Grading Bureaus, Northwest Log Rules Eastside and Westside Log Scaling Handbook, as amended or supplemented, at the time the logs are scaled.
 - c. All logs shall be scaled using an authorized BLM log scaling method approved by the Authorized Officer in accordance with BLM prescribed procedures. A list of authorized BLM log scaling methods is available upon request.
 - d. Purchaser shall ensure all logs are presented so that they may be scaled in an economical and safe manner.

- e. Scaling deductions made for rot, check or other defect resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3(g) of the contract when applicable. Avoidable delay in log scaling caused by the Purchaser that results in a measurable reduction in timber volume or quality would generally be considered abnormal delay, as determined by the Authorized Officer.
- f. Mechanical damage to logs that occurs during unloading identified by the TPSO will not be considered a deductible defect.
- g. The BLM will conduct check scaling using the following standards:
 Gross Scale - A variance of one and ½ percent (1.5%) in gross scale is the standard unless otherwise justified.
 Net scale - The allowable variance is as follows:

Check scaler's percent defect in logs	Scalers allowable variance
0-10 percent	2 percent
over 10 percent	0.2 * percent defect to a maximum of 5 percent

Determinations as to volume of timber made by a BLM check scaler in conformance with the standards as set forth herein shall be final. When such checks show a variance in scale more than acceptable standards, in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be fifty (50) percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, one hundred (100) percent of the volume scaled during the unsatisfactory check, and fifty (50) percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

- 2. **Weight Loads:** All species or products in Section I, with Tons as the Unit of Measure shall be designated as weight loads.
 - a. All weight loads shall be weighed on State certified scales.
 - b. Scales must have a current inspection tag or seal posted which shows the date of the most recent test by the State weights and measures agency.
 - c. No load shall be presented for weighing that exceeds the certified capacity of the scales in use.
 - d. Each load shall be weighed as a single unit. Gross and tare weight must be machine printed on a weight receipt. Average tare weights shall not be used, unless approved by the Authorized Officer. In addition to the gross and tare weight, the following shall be recorded with each weight receipt:
 - Contract name and number

- Load Ticket number
- Date, time, and location the load was weighed

VI. Accountability

1. Purchaser shall notify the Authorized Officer seven (7) business days prior to starting or stopping of hauling operations performed under the contract.
2. The Purchaser must provide the following information to the Authorized Officer seven (7) business days prior to the commencement of haul: log scaling and weighing location(s), planned beginning haul dates, anticipated number of loads per day to each scaling or weighing location, logger name and contact information, and log brands to be used, and the log brand registration number(s).
3. A Scaling Authorization Form(s) must be completed and approved by the Contracting Officer prior to beginning of hauling operations. The Scaling Authorization(s) will include approved measurement methods, merchantability standards, sort descriptions, and authorized delivery locations for all loads hauled from the contract area. For log scale loads, all log scaling locations on the Scaling Authorization(s) are required to have a Log Yard Authorization with the BLM. Approved Scaling Authorizations will be provided to the Purchaser upon request.
4. All loads will be scaled and/or weighed at locations listed on the Scaling Authorization as approved by the Authorized Officer.
5. Purchaser shall notify the Authorized Officer seven (7) business days in advance to request additional log scaling and/or weighing locations for approval on the Scaling Authorization(s).
6. Purchaser shall not intermingle BLM timber and other wood products with any other timber or wood products before log scaling and/or weighing occurs.
7. All logs on timber loads will be painted and branded at the landing and accounted for accordance with Section 44 of the contract. If contract area is within a State that maintains a log brand register, brands shall be registered with the State and Purchaser shall use assigned brand(s) exclusively on logs from this contract until the Authorized Officer releases the brand(s).
8. The Authorized Officer shall issue the Purchaser serially numbered load ticket books prior to any haul operations. The Purchaser shall sign a receipt for all ticket books received. The Purchaser shall accurately complete all load receipts in accordance with the instructions on the front of the ticket books, or as directed by the Authorized Officer. Separate load ticket books will be used for timber and other wood products. Mule train timber loads will be treated as two separate loads with a ticket for each load. All load tickets will be marked with the cutting area number using a permanent marker or as directed by the Authorized Officer. The Purchaser shall deliver all loads to the log scaling or weighing location on the Scaling Authorization and listed on the

BLM receipt. The load receipt and BLM receipt shall remain attached to the log load until it is scaled and/or weighed. For log scale loads, attach on the bunk or wing log at the front of the load on the driver's side, and surrender the load receipt and BLM receipt to the TPSO or Authorized Officer at the scaling location. For weight loads, either attach at the front of the load on the driver's side or place on the driver's side dashboard, attach the load receipt and BLM receipt to the weight receipt and deliver to the BLM weekly, unless otherwise directed by the Authorized Officer. The Purchaser will return all used load ticket books with woods receipts still attached to the BLM at the time new books are being issued. All unused and partial load ticket books, with receipts still attached, must be returned to the BLM upon completion of the contract and prior to final payment, or at the request of the Authorized Officer.

9. The Purchaser must account for all load receipts from each load ticket book. For all load receipts not accounted for, the Contracting Officer, at their sole discretion, will determine if the receipts are void or if the Purchaser shall pay damages for lost products. The value of lost products shall be equal to the highest value load for the month in which the receipt is lost. If no loads have been hauled in that month, value will be determined from the closest month in which loads were hauled. In the event a load receipt or load ticket book is lost or stolen, the Purchaser must immediately notify the Authorized Officer, and provide a complete explanation.
10. The Purchaser shall furnish BLM a map showing the route which shall be used to haul loads from the timber sale area to the log scaling/weighing location. Upon loading timber or other wood products in the contract area, all loads shall be hauled directly to the authorized scaling or weighing location as stated on the load receipt. The route of haul may be changed only with advance notice to and approval by BLM.
11. The Purchaser shall notify the Authorized Officer and receive advance authorization if any loads will arrive at an authorized scaling or weighing locations outside of their normal operating hours. No loads will be left on the truck for overnight storage without advance permission from the Authorized Officer.
12. If scaling or weighing services are unavailable, delayed or interrupted for any reason, hauling operations will cease immediately until services resume or an alternate scaling or weighing location is approved by the Authorized Officer.
13. Any removal of wood products from loaded trucks before being accounted for as required by the contract shall be considered a trespass and render the Purchaser liable for damages under applicable law in accordance with Section 13 of the contract. Any payment made for purchase of such loads shall be deducted from amount due because of trespass.

VII. Total Estimated Purchase Price – For administrative purposes, the following will be used for determining (1) when payments are due and (2) the value of timber or other wood products subject to any special bonding provisions in accordance with Section 3(f) of the contract.

1. When payments are made under Section 3 of the contract, the Authorized Officer shall

determine the value of removed timber and other wood products using the Government's records of log scale and/or weight volumes removed from the contract area.

2. The estimated value of timber and other wood products not yet removed from the contract area will be determined by subtracting the Government's records for value of removed timber and other wood products from the estimated total purchase price as shown in the table below. The estimated Total Purchase price is calculated by multiplying the estimated volume or weight for all species/products, listed below, by the bid prices in Section 1.

Total Estimated Purchase Price for Timber and Other Wood Products			
Species/Product	Estimated Volume (MBF or Tons)	Bid Price (\$/MBF or \$/Ton)	Estimated Value
western hemlock	MBF	\$42.20	\$89,337.40
Douglas-fir	MBF	\$209.00	\$78,793.00
red alder	MBF	\$37.70	\$1,508.00
western red cedar	MBF	\$340.70	\$4,769.80
bingleaf maple	MBF	\$20.10	\$100.50
Total Estimated Purchase Price:			\$174,508.70

U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT
TIMBER SALE CONTRACT
Road Specifications

TABLE OF CONTENTS

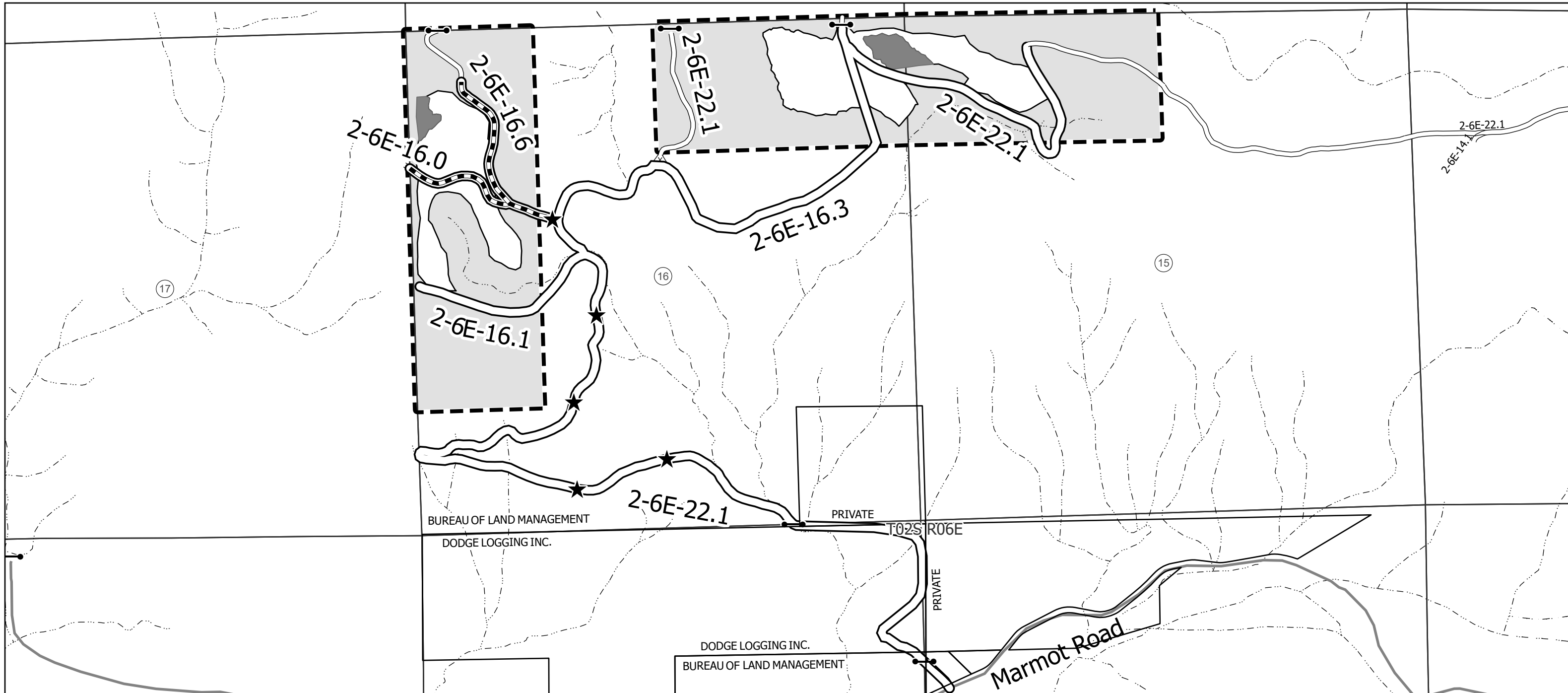
Section	Description
	Road Plan Maps
	Road Plan and Detail Sheet
	Construction Notes
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
400	Pipe Culverts
500	Renovation and Improvement of Existing Roads
600	Watering
1000	Aggregate Base Course - Crushed Rock
1200	Aggregate Surface Course - Crushed Rock
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing



UNITED STATES DEPARTMENT OF THE INTERIOR
 Bureau of Land Management
 Northwest Oregon District

Exhibit C
 RD Priceless
 Sheet 2 of 24

TIMBER SALE ROAD PLAN MAP - ORN01-TS-2024.0104
 T. 2 S., R. 6 E., Sections 15, 16; W.M.



- Stream
- Existing Road
- █ Leave Island
- Gate
- Renovate
- ▭ Contract Area
- ★ Install Culvert
- ▭ Approved Haul Route
- ▭ Reserve Area
- County Road
- ▭ Partial Harvest Area

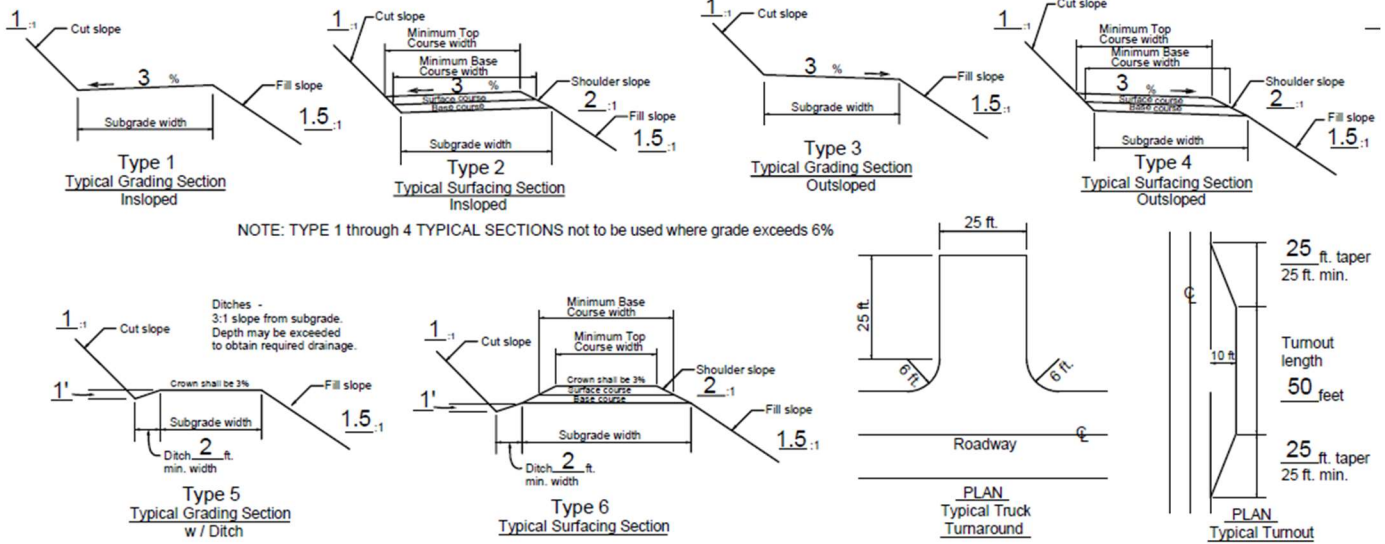
0 0.5 1 Miles

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ROAD PLAN AND DETAIL SUMMARY

Road Number	Pre-Haul Maint. Length (miles)	Road Renovate Length (miles)	New Construct Length (miles)	Typical Section Type	Subgrade Width (*1 & 4)	Culverts to Install (See Sec. 400)	Surfacing (*5)										Remarks
							Base Course: 1000					Surface Course: 1200					
							Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Estimated Cubic Yards	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Estimated Cubic Yards	
2-6E-22.1 A1-2	0.55			6	16							Spot Rock	ASC	C (1.5"-0)	60	Spot Rock near houses and culvert, Blade, and Roll	
2-6E-22.1 A3-5	1.89			6	16	4						Spot Rock	ASC	C (1.5"-0)	240	Brush, Replace 4 cross-drains, Spot Rock, Blade, and Roll	
2-6E-16.1	0.30			6	16											Brush, Blade, Roll, clean ditch/culverts	
2-6E-16.0		0.35		6	16	1										Clear Sub-grade, Insatll culvert, Shape crown, Blade, Roll, seed	
2-6E-16.6		0.27		6	16											Clear Sub-grade, Insatll culvert, Shape crown, Blade, Roll, seed	
2-6E-16.3	0.78			6	16											Brush, Blade, Roll, clean ditch/culverts	
2-6E-22.1 B1	0.68			6	16											Brush, Blade, Roll, clean ditch/culverts	
TOTAL	4.20	0.62	0.00			5					0				300	<i>Quantities shown are estimates only and not pay items.</i>	

TYPICAL ROAD DIMENSIONS



NOTE: TYPE 1 through 4 TYPICAL SECTIONS not to be used where grade exceeds 6%

*NOTES

1. Extra subgrade widths

Add to each shoulder: 1 foot for fills of 1 to 6 feet. Widen inside or outside shoulder of tight curves as needed for log trucks to maneuver, with tires remaining on roadbed.

2. Backslopes

Materials	Cut slopes	Fill slopes
Solid rock	1/2:1	Angle of repose
Soft rock and shale	3/4:1	1:1
Common		
Slopes under 55%	1:1	1-1/2:1
Slopes over 55%	1-1/2:1	1-1/2:1

Note:

Full bench construction is required on side slopes exceeding 60%.

Slope Ratio = Horizontal Distance:Vertical Distance (HD:VD)

3. Surface type

	Grading
PRR - Pit run rock	C - 1 1/2" minus
GRR - Grid rolled rock	D - 1" minus (surface course)
SRN - Screened rock	E - 3/4" minus (base course)
JRR - Jaw run rock	
ABC - Aggr. base course	A - 3" minus
ASC - Aggr. surface course	B - 2" minus (base course)
WC - Wood chips	C - 3"

4. Turnouts

Width shall be 10 feet in addition to the subgrade width, with lengths as shown on this plan, or as directed by the Authorized Officer.

5. Surfacing

Turnouts, curve widening, and the first 50 feet of all road aprons shall be surfaced, for all road stations requiring surfacing, as listed above, and as directed by the Authorized Officer.

6. Clearing width 200

See Section

7. As posted and painted for Right-of-Way, and as required in Section 2100 of this contract.

8. Grading (Renovation) 500

See Section

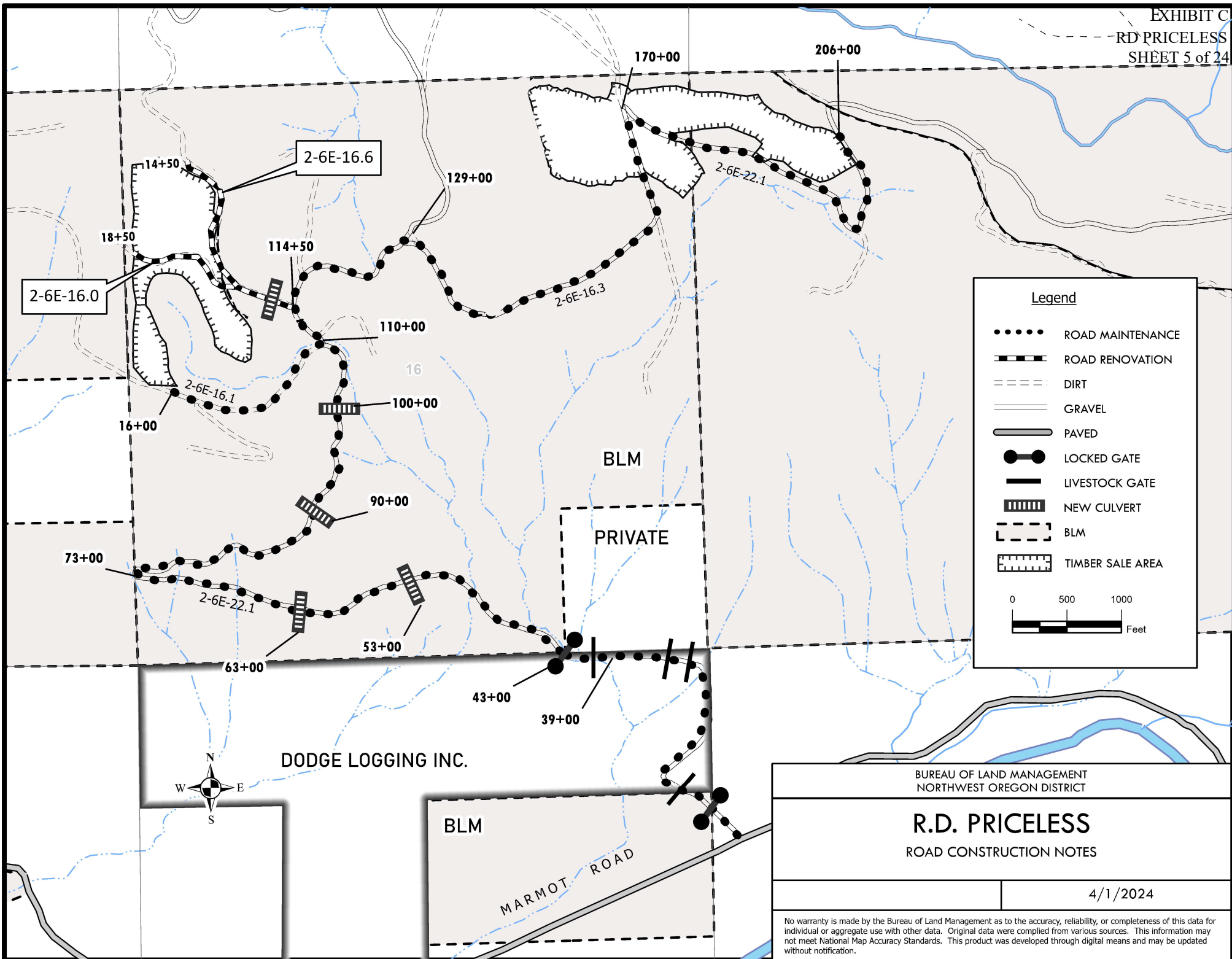
9. Drainage 400

See Section

Culvert site aggregate, as designated in Section 400 of this contract, does not fulfill any requirements as listed above for full lifts of surface or base applications.

10. Compaction 300 and 500

See Sections



Legend

- ROAD MAINTENANCE
- - - - - ROAD RENOVATION
- - - - - DIRT
- — — — GRAVEL
- PAVED
- LOCKED GATE
- LIVESTOCK GATE
- ▨▨▨▨ NEW CULVERT
- - - - - BLM
- ▤▤▤▤ TIMBER SALE AREA

0 500 1000
Feet

BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT

R.D. PRICELESS
ROAD CONSTRUCTION NOTES

4/1/2024

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of this data for individual or aggregate use with other data. Original data were compiled from various sources. This information may not meet National Map Accuracy Standards. This product was developed through digital means and may be updated without notification.

ROAD CONSTRUCTION CENTERLINE NOTES

HAUL ROUTE BLM RD# 2-6E-22.1 AND 2-6E-16.3	
0+00	ROAD JUNCTION / BLM# 2-6E-22.1
3+70	BEGIN ROAD MAINTENANCE AT 1ST GATE / ENTER BLM PROPERTY
4+50	SECOND GATE / ENTER DODGE LOGGING INC. PROPERTY
31+50	FARM GATES - MAY REMAIN OPEN DURING OPERATIONS
39+00	EXISTING STREAM CROSSING - ADD 20 C.Y. ROCK TO FILL IN COW TRAILS AND WIDEN ROAD
43+00	THIRD PAIR OF GATES / BEGIN BLM PROPERTY AFTER SECOND GATE / BEGIN ROAD BRUSHING, GRADING, ROLLING AND CULVERT CLEANING
53+00	APPROXIMATE LOCATION - INSTALL 18"X30' CROSS DRAIN CULVERT / USE 10 C.Y OF 1 1/2" MINUS TO PATCH AND BLEND THE SURFACE TOGETHER
63+00	APPROXIMATE LOCATION - INSTALL 18"X30' CROSS DRAIN CULVERT / USE 10 C.Y OF 1 1/2" MINUS TO PATCH AND BLEND THE SURFACE TOGETHER
73+00	SWITCHBACK
90+00	APPROXIMATE LOCATION - INSTALL 18"X30' CROSS DRAIN CULVERT / USE 10 C.Y OF 1 1/2" MINUS TO PATCH AND BLEND THE SURFACE TOGETHER
100+00	APPROXIMATE LOCATION - INSTALL 18"X30' CROSS DRAIN CULVERT / USE 10 C.Y OF 1 1/2" MINUS TO PATCH AND BLEND THE SURFACE TOGETHER
110+00	ROAD JUNCTION - ROAD 2-6E-16.1 TO THE LEFT
114+50	ROAD JUNCTION - ROAD 2-6E-16.0 TO THE LEFT
129+00	ROAD JUNCTION - CONTINUE ROAD WORK TO THE RIGHT / ROAD NUMBER CHANGES TO 2-6E-16.3
170+00	ROAD JUNCTION - CONTINUE ROAD WORK TO THE RIGHT / ROAD NUMBER CHANGES BACK TO 2-6E-22.1
206+00	BOUNDARY OF UNIT 2 / END OF ROAD WORK

ROAD CONSTRUCTION CENTERLINE NOTES

SPUR 2-6E-16.1	
0+00	ROAD JUNCTION WITH BLM# 2-6E-22.1 AT STATION 110+00 / BEGIN ROAD BRUSHING, GRADING, ROLLING AND CULVERT CLEANING
16+00	END OF ROAD WORK / SMOOTH OUT WIDE AREA TO USE AS A LANDING

SPUR 2-6E-16.0	
PURCHASER MAY ADD ROCK AT THEIR EXPENCE TO EXTEND THE OPERATION INTO THE FALL OR SPRING	
0+00	ROAD JUNCTION WITH BLM# 2-6E-22.1 AT STATION 114+50 / BEGIN ROAD RENOVATION / CENTERLINE IS FLAGGED IN RED & TREES TO BE CUT HAVE BEEN PAINTED BLUE BETWEEN STATIONS 0+00 AND 6+50
0+50	APPROXIMATE LOCATION - INSTALL 18"X40' CROSS DRAIN CULVERT / USE 10 C.Y OF 1 1/2" MINUS TO BLEND AND SMOOTH THE JUNCTION
6+50	ROAD JUNCTION - CONSTRUCT A TRUCK TURN AROUND IN THE INTERSECTION ROAD 2-6E-16.6 TO THE RIGHT & 16.0 ROAD CONTINUES AHEAD INTO THE TIMBER ROAD ENTERS UNIT 1 / END OF BLUE PAINTED TREES
18+50	END OF RENOVATION / CONSTRUCT A 30' X 30' LANDING

SPUR 2-6E-16.6	
PURCHASER MAY ADD ROCK AT THEIR EXPENCE TO EXTEND THE OPERATION INTO THE FALL OR SPRING	
0+00	ROAD JUNCTION WITH BLM# 2-6E-16.0 AT STATION 6+50 / BEGIN ROAD RENOVATION
14+50	END OF RENOVATION / CONSTRUCT A 30' X 30' LANDING

GENERAL – 100

- 101 - Prework Conferences:

A prework conference will be held prior to the start of new construction and renovation operations. The Purchaser shall request the conference at least 48 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

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 subcontractors. A prework conferences shall be scheduled at a location agreed upon by all parties.

- 103 - Compaction equipment shall meet the following requirements:

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

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.
- 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.
- 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.
- 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 between the top of the cut slope and the toe of the fill slope.
- 210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

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 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.
- 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.
- 306 - Layers of embankment and final subgrade 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 Subsection 103i.
- 306a - Minimum compaction for each layer of embankment material placed at optimum moisture shall be 1 hour of continuous compacting for each 5 stations of road or fraction thereof.
- 306e - The final subgrade including landings and turnouts shall be compacted to full width with compacting equipment conforming to the requirements of 103i. Minimum compaction shall be 1 hour of continuous compacting for each 6 stations of road or a fraction of as measured along the center line of the constructed road.

- 306f - Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures.
- 315 - Borrow material required for 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.
- 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.
- 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 Subsection 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.
- 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. Watering, rolling, and placement in layers are not required. 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 1 foot on the uphill side.
- 327 - The finished grading shall be approved by the Authorized Officer in segments or for the total project. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

PIPE CULVERTS - 400

- 401 - This work shall consist of furnishing and installing pipe culverts 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 upon installation of the appurtenance structures. 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

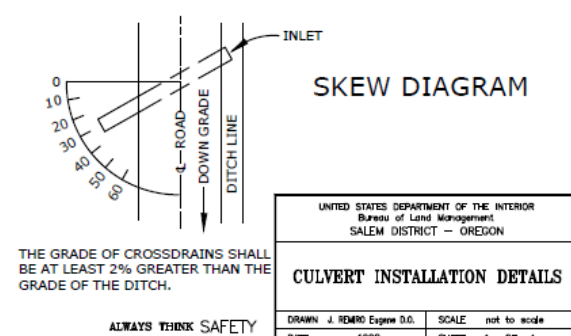
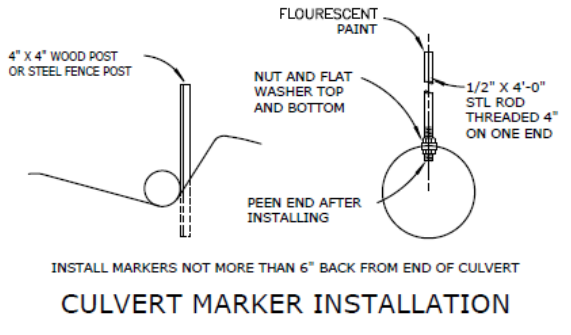
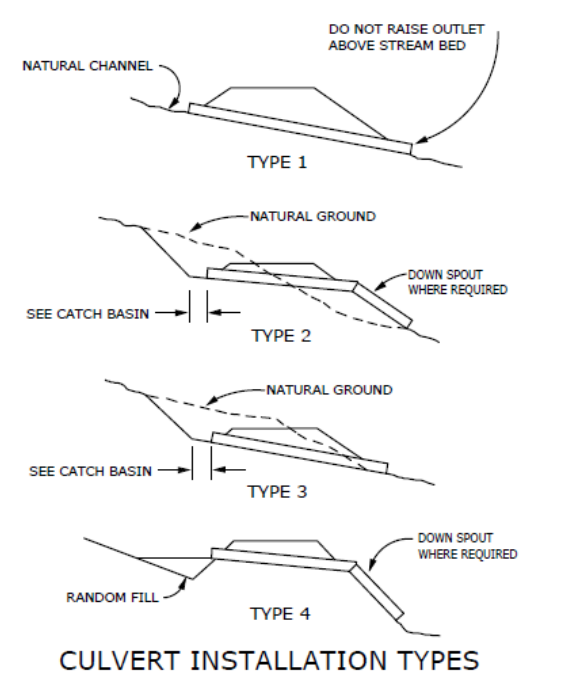
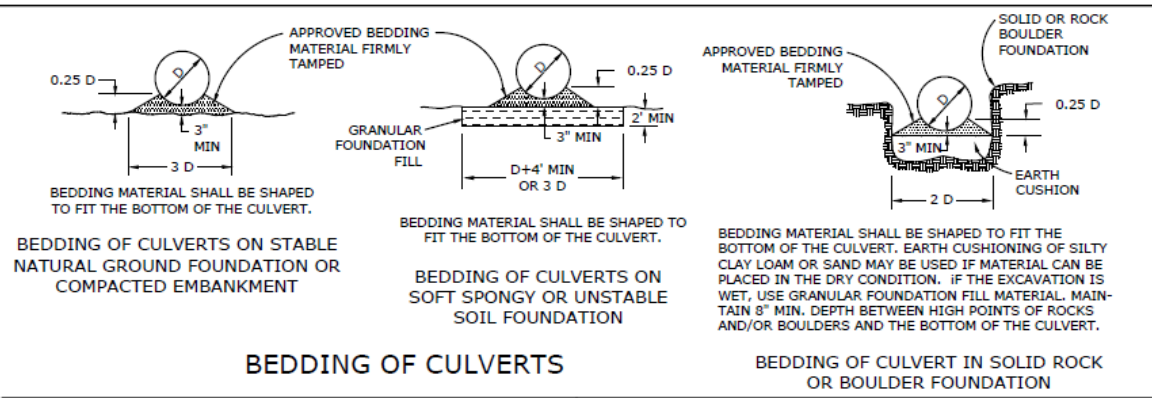
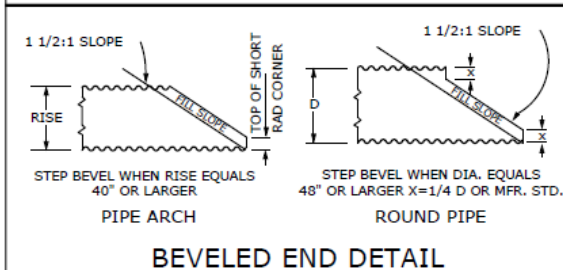
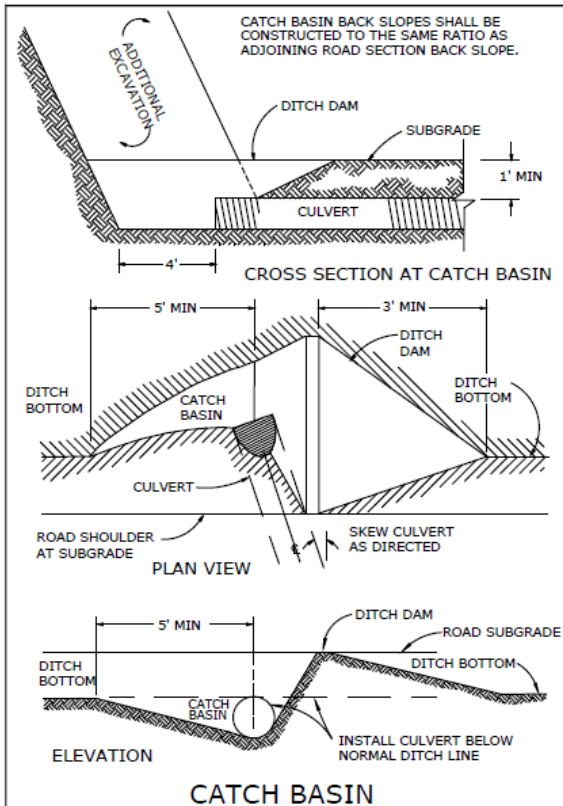
upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.

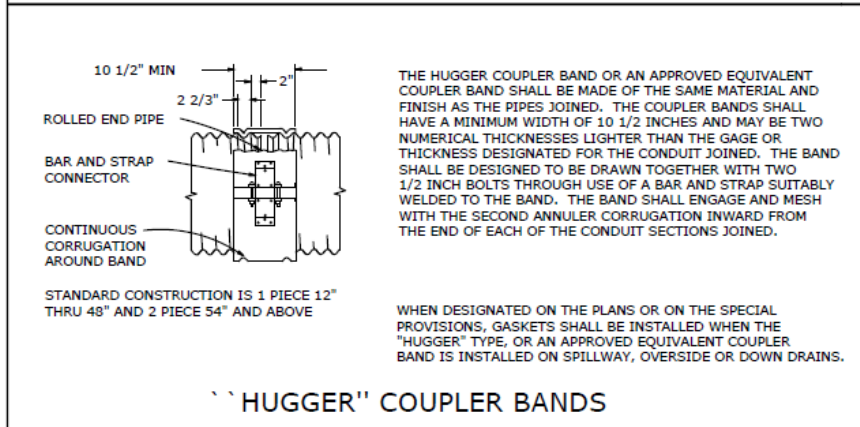
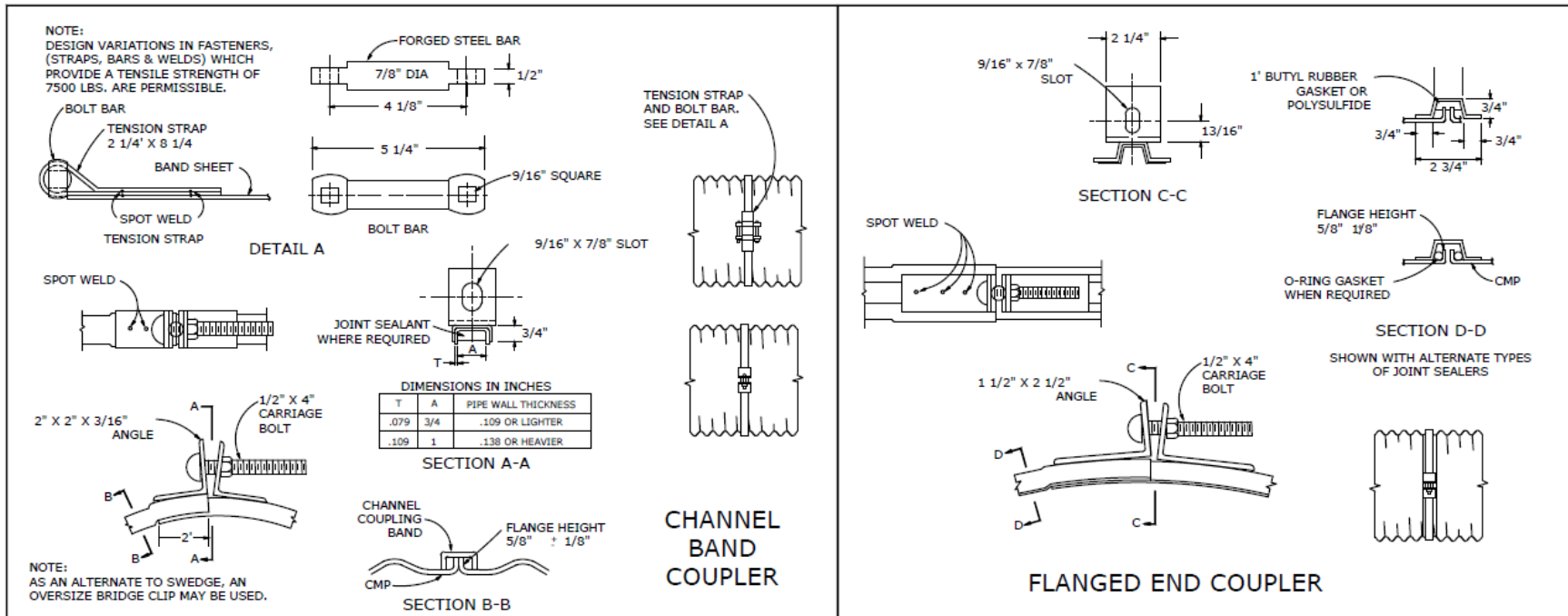
- 403 - Grade culverts shall have a gradient of from 2 percent to 4 percent greater than adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- 406 - Coupling bands shall conform to the 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.
- 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 and the Culvert Installation Detail Sheet.
- 413 - Pipe culverts and pipe-arch culverts shall be bedded on a fine readily compactable soil material 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.
- 415 - Inspection of pipe culverts having a diameter of 48 inches and pipe-arch culverts having a height of 40 inches or a cross sectional area of 13 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 fine readily compactable soil 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.

- 419 - The pipe culvert after being bedded and backfilled as required by these specifications shall be protected by a 1-foot cover of fill before heavy equipment is permitted to cross the drainage structure. Removal of the protection fill shall be as directed by the Authorized Officer.
- 426 - Culvert markers consisting of 5 foot steel fence posts painted green with white top, shall be furnished, fabricated, and installed by the Purchaser at grade culverts as shown on the plans and as directed by the Authorized Officer.
- 427 - Record culvert sizes, lengths and location (actually installed) on a copy of the culvert list. This culvert list shall be furnished to 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 within three 3 working days of completion of the culvert replacement work for each road 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. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

CULVERT SUMMARY																
Culvert Locations											Culvert Markers	Downspout (4)				Remarks (6)
Designed						As Built						Type	Diameter (in)	Length	Type of Elbow (5)	
Road No.	Station (1)	Diameter (in)	Material (2)	Length (ft) (1)	Skew Angle	Installation Type (3)	Road No.	Station	Diameter (in)	Gage						
2-6E-22.1	53+00	18	CPP	30	0	3						Inlet				Final location to be flagged by BLM prior to install
2-6E-22.1	63+00	18	CPP	30	0	3						Inlet				Final location to be flagged by BLM prior to install
2-6E-22.1	90+00	18	CPP	30	0	3						Inlet				Final location to be flagged by BLM prior to install
2-6E-22.1	100+00	18	CPP	30	0	3						Inlet				Final location to be flagged by BLM prior to install
2-6E-16.0	0+50	18	CPP	40	0	3						Inlet				Final location to be flagged by BLM prior to install
Total				160												

- (1) Designed culvert lengths and locations are approximate.
(2) Material: ASP=Aluminized Squash Pipe CPP=Corrugated Poly Pipe CMP=Corrugated Metal Pipe
(3) See Culvert Installation sheet.
(4) Downspout Types: 1 = Full Round 2 = Half Round 3 = Rectangular Flume
(5) Elbow Types: 1 = Conventional or Fabricated 2 = Turner Type 3 = Slip Joint
(6) Include special sections, structures, headwalls, footings, and other data.





CULVERT SIZE INCHES	STANDARD COUPLER BANDS								FLAT-DIMPLED			
	CORRUGATED											
	STD. ANNULAR		HELICAL		3" X 1"		6" X 1"		WIDTH	NO. OF ROWS OF DIMPLES	NO. OF BOLTS	
UNDER 18	7	2	7	2	3	2	18	3	10 1/2	2	2	2
18 TO 54	12	3	12	3	14	3	18	3	10 1/2	2	3	2
OVER 54	24	5	24	5	24	5	24	4	16 1/2	4	5	4

DATA IN THIS BLOCK DOES NOT APPLY TO PERFORATED PIPE UNDERDRAIN. FOR BANDS WITH "PUNCH-OUT" TYPE CONNECTIONS, 2 BOLTS ARE PERMISSIBLE FOR EACH LAP. BANDS SHALL LAP 1/2 WIDTH ONTO EACH SECTION OF PIPE AND MUST FULLY ENCIRCLE THE JOINT FORMING A NEARLY WATERTIGHT CONNECTION.

- Ⓐ BANDS WITH ANGLES
- Ⓑ BANDS WITH TENSION TYPE CONNECTIONS

ALWAYS THINK SAFETY

UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management SALEM DISTRICT - OREGON	
CULVERT BAND DETAILS	
DRAWN J. REMRO Eugene D.O.	SCALE not to scale
DATE 1990	SHEET 1 OF 1

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, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications as shown on the plans.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 - Existing road surface 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 103i.
- 504a - Minimum compaction required shall be 1 hour of continuous rolling for each 6 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- 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 listed in the Culvert Summary in Section 400 shall be replaced and 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.
- 509 - The finished grading shall be approved 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.

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.

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 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 commercial sources 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 65 percent, by weight, of the material retained on the No. 4 sieve.

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

AGGREGATE BASE COURSE
CRUSHED ROCK MATERIAL

Percentage by Weight Passing Square Mesh Sieves
(AASHTO T 11 & T 27)

GRADATION

Sieve Designation	A	B	C	D	F	G	H	I
(6) -inch	-	-	-	-	-	-	-	100
3-inch	100	-	100	-	100	-	-	45-65
2-inch	90-95	100	-	100	65-95	100	100	-
1 1/2-inch	-	90-95	-	-	-	-	-	-
1-inch	45-75	50-90	-	-	-	50-85	60-90	-
3/4-inch	-	-	-	-	28-70	-	-	-
1/2-inch	-	-	-	-	-	27-60	44-70	-
3/8-inch	-	-	-	-	-	-	-	-
No. 4	15-45	15-50	-	-	10-35	15-40	28-50	0-10
No. 8	-	-	-	-	-	-	20-41	-
No. 10	-	-	-	-	-	-	-	-
No. 30	-	-	-	-	5-22	8-26	9-26	-
No. 40	5-25	5-25	-	-	-	-	-	-
No. 200	2-15	2-15	-	-	3-10	3-12	3-12	-

- 1006 - Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.
- 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.
- 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 by the Authorized Officer prior to placement of crushed rock materials.
- 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 6 inches in depth. 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.
- 1011 - Crushed rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.
- 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 103i. Minimum compaction shall be deemed adequate when the surface can withstand five passes of a truck with H-20 loading without appreciable deformation.
- 1013 - Each layer of crushed rock material for base placed, processed, and shaped as specified shall be uniformly moistened or dried to the optimum moisture content

suitable for maximum density and compacted to full width until a uniform density of not less than 95 percent of the maximum density is attained as determined by AASHTO T 99, Method D.

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 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 65 percent by weight of the particles retained on the No. 4 sieve will have 3 manufactured fractured faces.
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

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

- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 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 Subsection 103i. Minimum compaction shall be 1 hour of continuous compacting for each 6 stations, or fraction thereof.
- 1213 - Each layer of crushed rock material placed, uniformly processed, and shaped as specified shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width until a uniform density of not less than 95 percent of maximum density is attained as determined by AASHTO T 99, Method C or D.

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

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. This work is required for road acceptance under Section 18 of this contract.
- 1802a - Soil stabilization work consisting of seeding and mulching shall be performed on disturbed areas 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: September 15	To: October 30
From: March 1	To: April 31

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas 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 Purchaser shall provide native grass/forb seed or other plant materials for this project.

All seed provided must meet corresponding germination, purity, and weed-content requirements:

Species	Germination Min. %	Purity Min. %	Weed Content Max. %
Blue Wildrye (Elymus Glaucus)	75	99	1

The Purchaser shall furnish the Authorized Officer a Seed Test Result for the mix from a certified seed testing lab Oregon State University, Crop Certification Service, which shall include: date of test; lot number of each kind of seed; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last 6 months to be accepted for use on this contract. The Purchaser shall provide in writing that the seed mixture is free of noxious weed species.

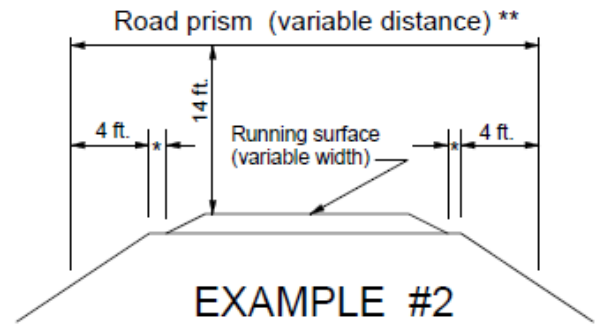
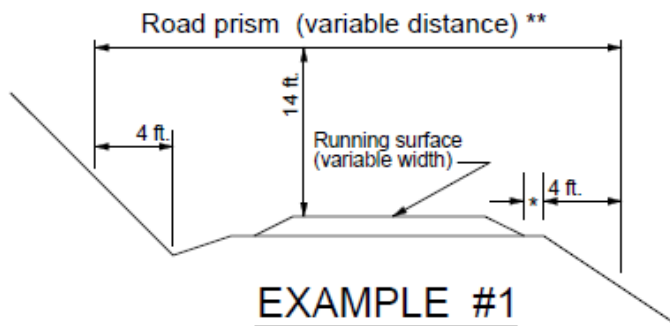
- 1806a - Additional soil stabilization work consisting of seeding and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be 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 Subsection 1808a shall be furnished by the Purchaser 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.
- 1812 - The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans, a mixture of grass seed and mulch, material at the application rate to be determined by the Authorized Officer based on visual observation of trial applications.
- 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 the dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.
- 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.

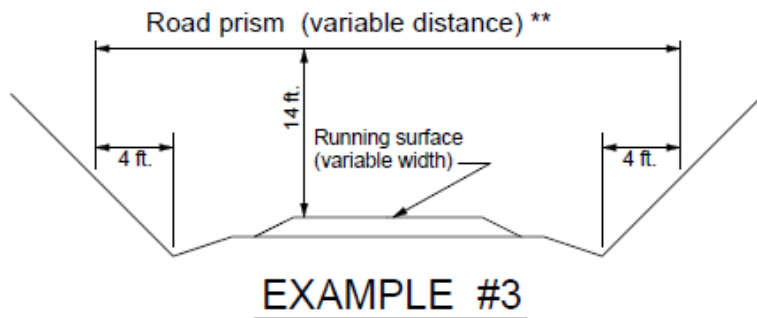
ROADSIDE BRUSHING - 2100

- 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, 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 or mechanically less than 6 inches in diameter 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.
- 2109 - Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of foot in length and 2 inches 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.

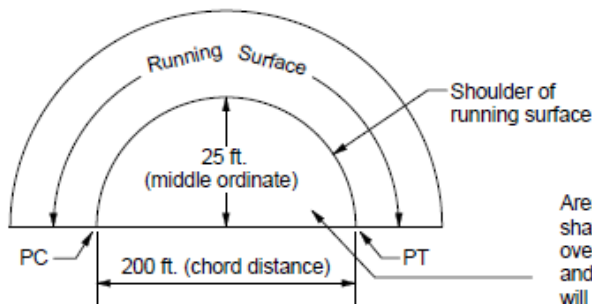
ROADSIDE BRUSHING DETAIL SHEET



(NO SCALE)



- * 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 all overhanging limbs and branches 14 feet in elevation above the running surface



SIGHT DISTANCE DIAGRAM

Area to be cut:
shall be free of
overhanging limbs
and all vegetation
will be cut to a
maximum height
of one (1) foot.

NOTE:

Prior to beginning roadside brushing the purchaser shall establish a control section in a location determined by the Authorized Officer. This section will be used to physically and visually establish acceptable cutting and cleanup standards to be used for the remaining roadside brushing.

ROAD MAINTENANCE SPECIFICATIONS

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

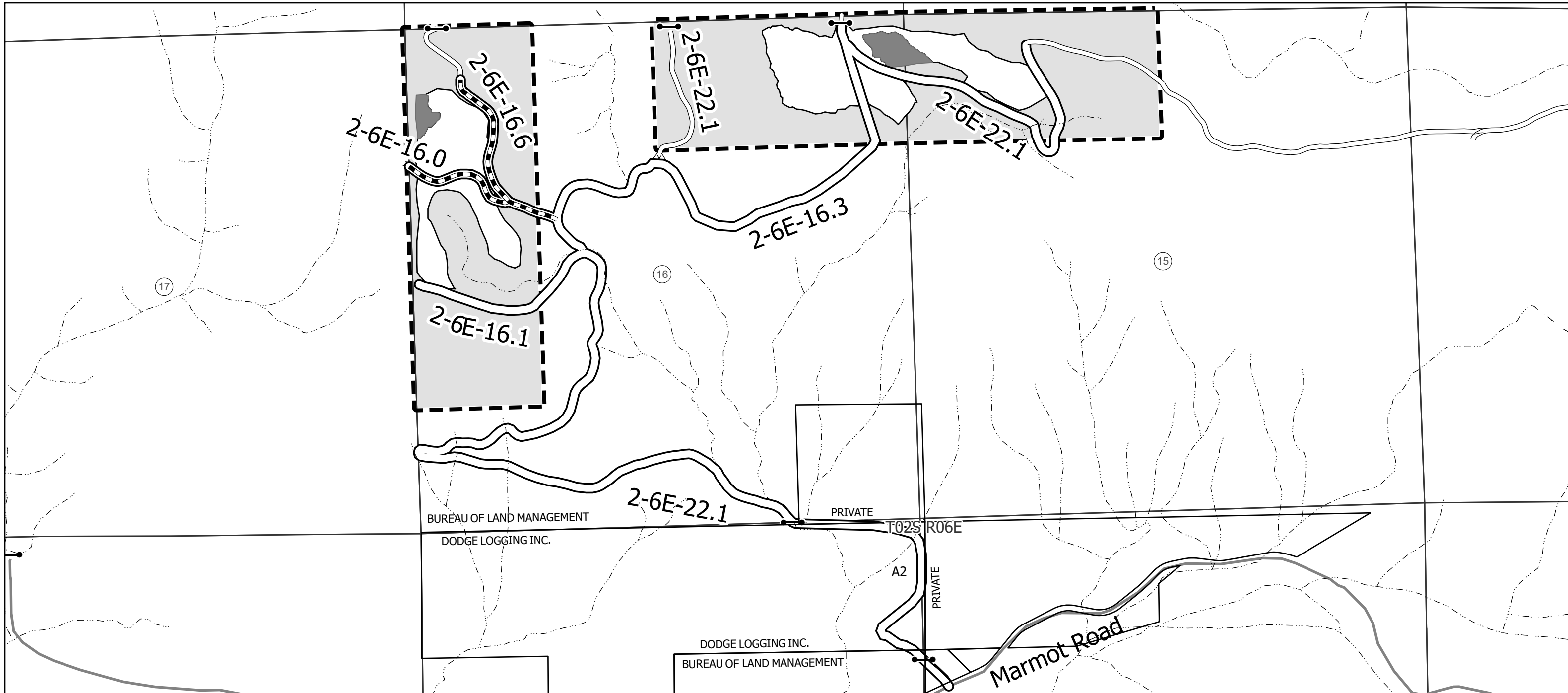
SECTION	DESCRIPTION
	Road Use and Maintenance Maps
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance
3500	Stabilization



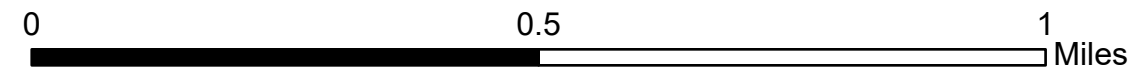
UNITED STATES DEPARTMENT OF THE INTERIOR
 Bureau of Land Management
 Northwest Oregon District

Exhibit D
 RD Priceless
 Timber Sale
 Sheet 2 of 8

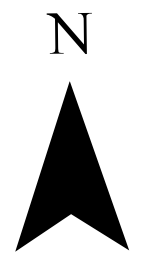
ROAD USE and MAINTENANCE MAP - ORN01-TS-2024.0104
 T. 2 S., R. 6 E., Sections 15, 16; W.M.



- Stream
- Gate
- Approved Haul Route - Purchaser Maintenance
- County Road
- Existing Road
- Partial Harvest Area
- Leave Island
- Contract Area
- Reserve Area



No Warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data Original data was compiled from multiple source data and may not meet U.S. National Mapping Accuracy Standard of the Office of Management and Budget.



GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit D Road Use and Maintenance 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 geometric 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. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. 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 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. The Purchaser shall be permitted to remove ice or snow from roads authorized for use under this contract subject to the following terms and conditions:
- (1) Notification to BLM must be provided twenty-four (24) hours in advance of ice and snow removal operations.
 - (2) Snowplowing shall be performed by utilizing a motor patrol grader or similar machine as approved by the Authorized Officer. Grader blades shall be equipped with shoes, runners, or other device to keep the grader blade a minimum of two inches (2") above the road surface. Any damage to the road or displacement of surfacing material will be the responsibility of the Purchaser to repair and/or replace at their expense.
 - (3) Snow shall be plowed to the outside shoulder of the road and not into the ditchline. Snow berms created on the shoulder of the road must be swept off the road surface or day-lighted to allow surface water to drain off. Ditches and culverts shall be left functional upon completion of operations.
 - (4) Existing turnouts along road must be cleared of snow to allow for safe vehicle passage.

(5) No chemical and/or salt-based de-icer is allowed for use. Sand or ¾” minus or smaller crushed rock may be applied to the road surface for additional traction on iced sections. Traction rock shall be uniformly distributed and no greater than 1” depth. Purchaser shall clear road surface of traction rock as directed by the Authorized Officer. Any traction rock used will be at the Purchaser’s expense.

3102 The Purchaser shall furnish and place or stockpile at least **200 cubic yards** of aggregate conforming to the requirements in Section 1000 and 1200 of Exhibit C of this contract on the roadway as necessary to maintain the dimensions and typical cross sections shown on the Exhibit C plans and at locations and in the amounts designated by the Authorized Officer.

This 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, spread, and compacted by use of dump trucks, water trucks, and motor grader or similar equipment.

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 grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.

3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe invert 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 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 repair and replacement of eroded material exceeding fifteen 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 Road Cost Guide. 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 in accordance with Section 2100 of Exhibit C.

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 caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.

SEASONAL MAINTENANCE - 3200

3201 The Purchaser shall perform preventative 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 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 proceeding operating seasons.

3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads 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 thirty 30 calendar days following the completion of hauling 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 Sec. 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 Subsection 3108. 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.

STABILIZATION – 3500

3501 Stabilization shall consist of installing water bars, drain dips, placement of slash and blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.

3503 Stabilization shall be performed on existing roads in accordance with these specifications, and as shown on the plans at the following locations:

Road No. or Site	From Sta./M.P.	To Sta./M.P.	Comment
2-6E-16.0	0.00 M.P.	0.35 M.P.	Driveable waterbars
2-6E-16.6	0.00 M.P.	0.27 M.P.	Driveable waterbars

3504 Stabilization work shall be completed at the end of timber hauling. All soil stabilization work shall be performed during the following seasonal periods to address soil moisture or as determined by the Authorized Officer: **From May 1 to November 30.**

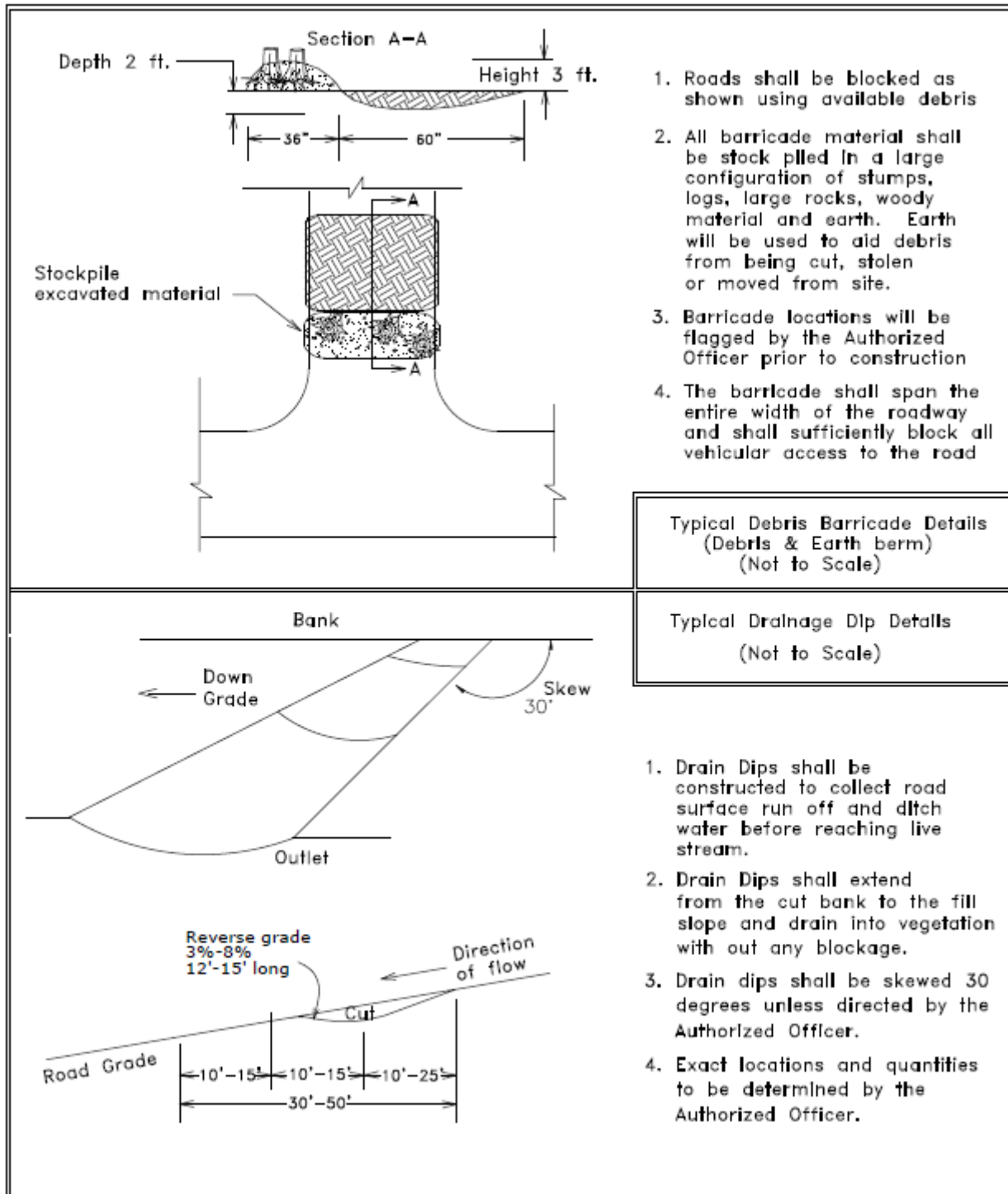
3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. Where slash is not available, exposed soil areas shall be stabilized in accordance with Section 1800 of Exhibit C.

3508 Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.

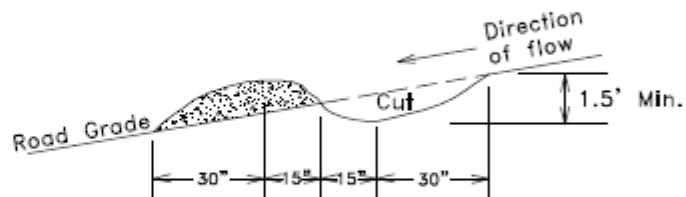
3509 Access shall be blocked with barricades as shown on the attached typical detail sheet and at locations flagged by the Authorized Officer.

3513 Water bars and drain dips shall be installed across full width of roadway as shown on the attached typical detail sheet and at locations flagged by the Authorized Officer.

3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 and placement of slash described in Subsection 3506 on designated roadways, disturbed areas, cut banks, fill slopes and other areas disturbed by the Purchaser's operations in accordance with these specifications and as shown in the plans.



1. Waterbars shall be constructed as shown.
2. Exact locations will be flagged by the Authorized Officer prior to construction.
3. All waterbars shall be skewed 30 degrees.
4. Waterbars shall extend from the cut bank to the fill slope and be readily crossed by passenger type vehicles.



Typical NON-Drivable
 Waterbar Details
 (Not to scale)

Typical Drivable
 Waterbar Details
 (Not to scale)

1. Waterbars shall be constructed as shown.
2. Exact locations will be flagged by the Authorized Officer prior to construction.
3. All waterbars shall be skewed 30 degrees.
4. Waterbars shall extend from the cut bank to the fill slope and be readily crossed by passenger type vehicles.
5. The mound of material shall be compacted from the cut bank to the fill slope and shall be passable by passenger type vehicles.

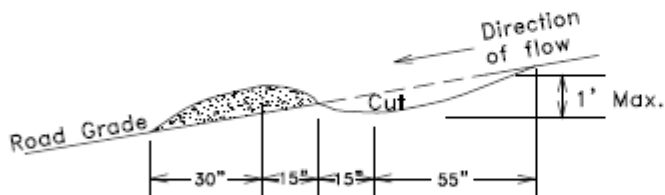


EXHIBIT I SPECIFICATIONS FOR SNAG CREATION

GENERAL:

1. Designated conifer trees up to (60) shall have tops removed (topping) by saw cutting, high girdling, or be base girdled as determined by the Authorized Officer.
2. One third, up to (20) of the trees to be treated shall be high girdled. One third, up to (20) of the trees to be treated shall be base girdled. One third, up to (20) of the trees to be treated shall be topped, as determined by the Authorized Officer.
3. Topped, top girdled or girdled trees shall be well distributed within unit boundaries as directed by the Authorized Officer. Do not create snags within falling distance of power lines, structures or roads that will remain open after harvesting activities are complete.
4. The Purchaser shall furnish all labor, equipment, supervision, and supplies to perform all work.

HIGH GIRDLE:

1. Girdling height of live trees will vary by stand age and should range from 50-120 feet, or the top-third of the tree. Average girdling height is likely to be 80-110 feet in the 60-70 year old stands, and 60-80 feet in the 40-50 year old stands.
2. Trees High Girdled shall retain 15-25 live limbs that are at least 5 feet in length below the girdled site.
3. All cuts will completely sever the cambium, but not exceed ½ inch depth into the wood of the tree.
4. All cuts will be free of sawdust and debris.
5. High Girdled trees shall be marked with high visibility florescent orange flagging around the bole at a point ten to twenty feet above the ground so that it is readily visible from at least one hundred (100) feet away from the tree in all directions and two pieces of flagging tied to a branch, or bole, directly below the girdling site.

TOPPING:

1. Topping shall be done at a point within approximately 50 to 100 feet in height where the diameter of the main stem is between ten and fourteen (10-14) inches, or as directed by the Authorized Officer.
2. Remove live limbs 10 feet below the point where the tree is topped.
3. Treetops which are severed shall be completely severed from the tree and in such a manner that they are lying completely on the ground. No tops shall remain hung up in tops of other trees or leaning against the bole of any tree.

4. Severed tree tops which land on or immediately adjacent to a constructed fire trail, within a fuel reduction area, or in the right-of-way of a road or designated trail shall be moved as directed by the Authorized Officer the same day in which it was severed.
5. The top of the main stem of the tree shall be cut flat (no face cut notch or angled back cut).
6. The top of the main stem shall then have a vertical “V” notch cut at least six (6) inches down into the stem with the open end of the “V” approximately three (3) inches or 1/3 the diameter of the cut face in width or be otherwise modified as directed by the Authorized Officer.
7. Florescent orange flagging shall be hung around the bole at a point ten to twenty feet above the ground so that it is readily visible from at least one hundred (100) feet away from the tree in all directions.

BASAL GIRDLE:

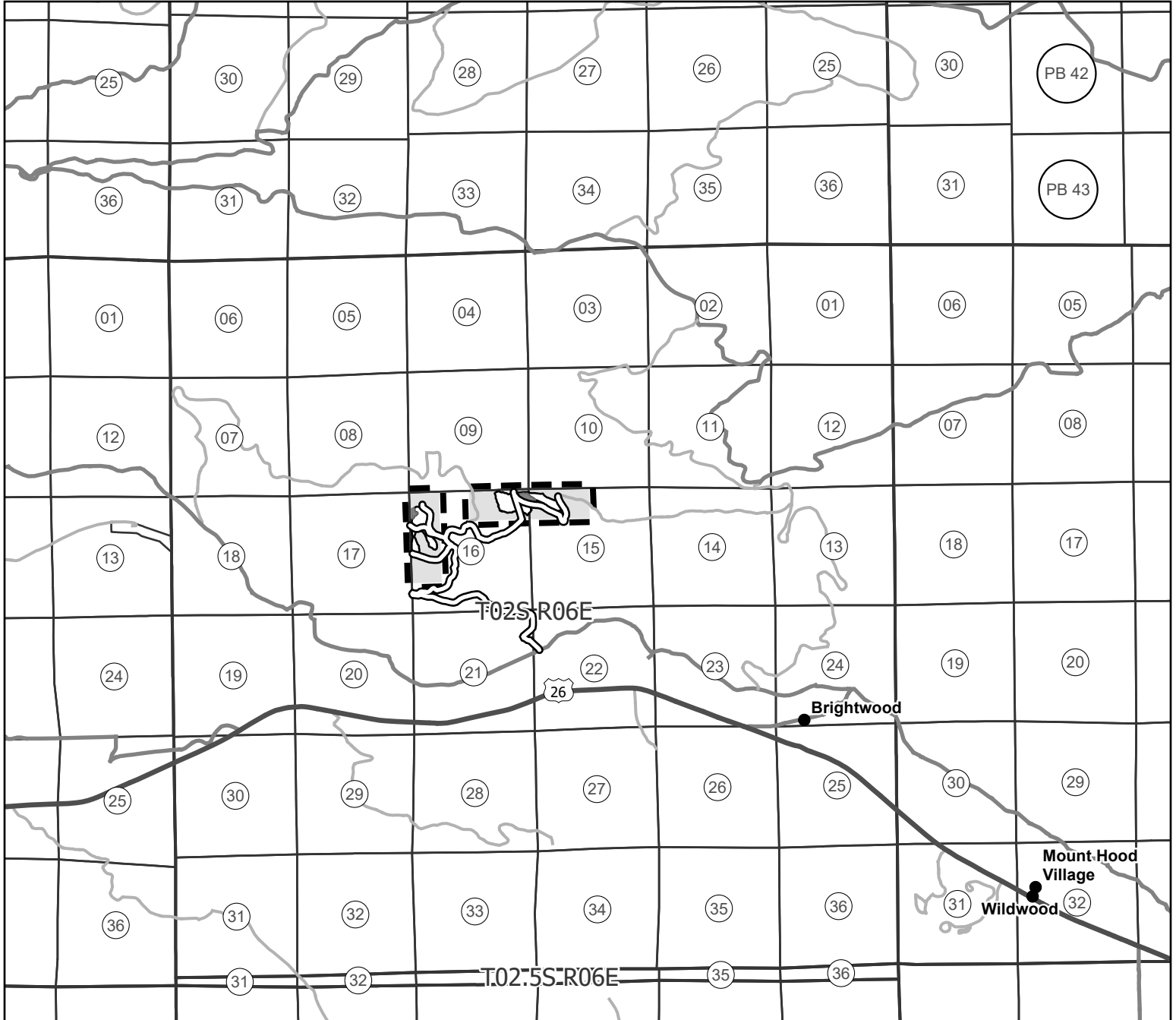
1. The bark and cambium layer shall be completely removed with a chainsaw or hand tools in a band at least twelve (12) inches wide completely around the main stem of the tree at a height between two (2) and eight (8) feet above the ground.
2. No more than one-half (1/2) inch of wood inside the cambium layer shall be cut.
3. Florescent orange flagging shall be hung around the bole at above where the tree was girdled so that it is readily visible from at least one hundred (100) feet away from the tree in all directions.



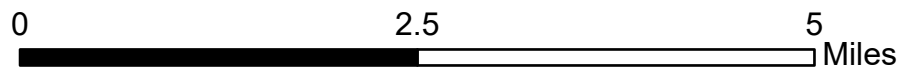
UNITED STATES DEPARTMENT OF THE INTERIOR
Bureau of Land Management
Northwest Oregon District

RD Priceless
Timber Sale
Sheet 1 of 1

TIMBER SALE VICINITY MAP - ORN01-TS-2024.0104
T. 2 S., R. 6 E., Sections 15, 16; W.M.



- Approved Haul Route
- City
- Highway
- Major Road
- Intermediate Road
- Partial Harvest Area
- Leave Island
- Contract Area
- Reserve Area



No Warranty is made by the Bureau of Land Management as to the accuracy, reliability or completeness of these data for individual use or aggregate use with other data. Original data was compiled from multiple source data and may not meet U.S. National Mapping Accuracy Standard of the Office of Management and Budget.



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

Timber Appraisal

Sale Name: RD Priceless	Sale Date: Wednesday, May 22, 2024
BLM District: NW Oregon DO	Unit of Measure: 16' MBF
Contract #: ORN01-TS-2024.0104	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-004

Scale 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: Rainey, Matthew D - 4/1/2024

Approved By: Rainey, Matthew D - 4/1/2024

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Clackamas	2S	6E	15	N1/2NW1/4	Willamette
O&C	Clackamas	2S	6E	16	N1/2NE1/4, W1/2NW1/4, NW1/4SW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Western Hemlock	2,117.0	2,247.0	2,249.0	29,164	123	4,807
Douglas Fir	377.0	392.0	392.0	5,286	0	810
Red Alder	40.0	48.0	48.0	1,166	372	575
Western Redcedar	14.0	16.0	19.0	160	32	37
Bigleaf Maple	5.0	6.0	6.0	106	52	70
Totals	2,553.0	2,709.0	2,714.0	35,882	579	6,299

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	60.0	0.0	60.0	42.6

Logging Costs

Stump to Truck	\$712,521.18
Transportation	\$195,048.00
Road Construction	\$57,351.99
Maintenance/Rockwear	\$23,171.68
Road Use	\$0.00
Other Allowances	\$16,535.00
Total:	\$1,004,627.85
Total Logging Cost per MBF:	\$393.51

Utilization Centers

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Mollala	60.0 miles	100%

Profit & Risk

Profit	11%
Risk	0%
Total Profit & Risk	11%

Tract Features

Quadratic Mean DBH	18.2 in
Average GM Log	75 bf
Average Volume per Acre	42.6 mbf
Recovery	94%
<u>Net MBF volume:</u>	
Green	2,553.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	100%
Average Yarding Slope	5%
Average Yarding Distance	200 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	March 2024
Cruised By	Rainey, Barclay
Cruise Method	
Variable plot cruised with 100 plots, 40 BAF	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value (\$)
Western Hemlock	4,807	2,117.0	\$421.29	\$46.34	\$393.51	\$0.00	\$42.20 *	\$89,337.40
Douglas Fir	810	377.0	\$676.95	\$74.46	\$393.51	\$0.00	\$209.00	\$78,793.00
Red Alder	575	40.0	\$377.00	\$41.47	\$393.51	\$0.00	\$37.70 *	\$1,508.00
Western Redcedar	37	14.0	\$824.98	\$90.75	\$393.51	\$0.00	\$340.70	\$4,769.80
Bigleaf Maple	70	5.0	\$201.00	\$22.11	\$393.51	\$0.00	\$20.10 *	\$100.50
Totals	6,299	2,553.0						\$174,508.70

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

Percent of Volume By Log Grade

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				76.0%	21.0%	3.0%	

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				71.0%	25.0%	4.0%	

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

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

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

Unit: 1

Species	Net	Gross Merch	Gross	# of Trees
Western Hemlock	882.0	936.0	937.0	2,003
Douglas Fir	157.0	163.0	163.0	337
Red Alder	17.0	20.0	20.0	239
Western Redcedar	6.0	6.0	8.0	15
Bigleaf Maple	2.0	2.0	2.0	29
Totals:	1,064.0	1,127.0	1,130.0	2,623

Net Volume/Acre: 42.6 MBF

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

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Western Hemlock	1,235.0	1,311.0	1,312.0	2,804
Douglas Fir	220.0	229.0	229.0	473
Red Alder	23.0	28.0	28.0	336
Western Redcedar	8.0	10.0	11.0	22
Bigleaf Maple	3.0	4.0	4.0	41
Totals:	1,489.0	1,582.0	1,584.0	3,676

Net Volume/Acre: 42.5 MBF

Regeneration Harvest	0.0
Partial Cut	35.0
Right of Way	0.0
Total Acres:	35.0

Total Stump To Truck	Net Volume	\$/MBF
\$712,521.18	2,553.0	\$279.09

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Wheel Skidder	GM MBF	2,709.0	\$263.02	\$712,521.18	5/loads per day, 5MBF per load
Subtotal				\$712,521.18	

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	

Comments:

Wheeled skidder comes with Shovel, Processor and Feller Buncher

Total	Net Volume	\$/MBF
\$195,048.00	2,553.0	\$76.40

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Mollala	60.0	Saw logs	GM MBF	2,709.0	\$72.00	\$195,048.00	100%

Comments:

Used medium haul rate of \$72. (\$120/Hour, 51-60 miles @ 3 Hours per load, 5 MBF /Load)

Engineering Allowances

Total	Net Volume	\$/MBF
\$80,523.67	2,553.0	\$31.54

Cost Item	Total Cost
Road Construction:	\$57,351.99
Road Maintenance/Rockwear:	\$23,171.68
Road Use Fees:	\$0.00

Comments:

No Fees due, all work purchaser obligation

Total	Net Volume	\$/MBF
\$16,535.00	2,553.0	\$6.48

Environmental Protection

Cost item	Total Cost
Machine wash	\$400.00
Subtotal	\$400.00

Fire Prevention & Control

Cost item	Total Cost
Machine Pile Burn	\$1,700.00
Lop & Scatter	\$500.00
Machine Pile Construction	\$7,225.00
Subtotal	\$9,425.00

Miscellaneous

Cost item	Total Cost
Base Girdle	\$600.00
High Girdle	\$2,000.00
Tree topping	\$3,500.00
10% Admin Fee	\$610.00
Subtotal	\$6,710.00