

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Tillamook Field Office
4610 Third Street
Tillamook, Oregon 97141

LOOKOUT BELOW TIMBER SALE
ORN04-TS-2019.0401
Date: April 16, 2019

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 TILLAMOOK FIELD 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, attached. Written and oral bids will be received by the District Manager, or his 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 15, 2019.

THIS TIMBER SALE NOTICE does not constitute the decision document for purposes of protest and appeal of a forest management decision. Consistent with 43 CFR Subpart 5003-Administrative Remedies, the notice of a timber sale, when published as a legal ad in a newspaper of general circulation shall constitute the decision document for purposes of protest and appeal. Protests may be filed with the Contracting Officer within 15 days of the publication of the aforementioned decision document in the newspaper. It is anticipated that the decision document will be published in the News-Register on or about April 16, 2019. BLM does not warrant publication on this exact date. All parties considering protest of the timber sale decision document are encouraged to review the aforementioned newspaper(s) to ensure accurate knowledge of the exact publication date.

AN ENVIRONMENTAL ASSESSMENT was prepared for each timber sale tract, and a Finding of No Significant Impact has been documented. These documents are available for inspection as background for each timber sale tract at the Tillamook Field 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/or/resources/forests/index.php>. The prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Tillamook Field Office at 503-815-1100.

Attachments:

Form 5450-17
Form 5430-11
Form 5440-9

TIMBER SALE NOTICE

NORTHWEST OREGON DISTRICT
TILLAMOOK FIELD OFFICE
COLUMBIA MASTER UNIT

Sale Date: May 15, 2019

CONTRACT NO.: ORN04-TS-2019.0401, LOOKOUT BELOW TIMBER SALE, ORAL AUCTION
YAMHILL COUNTY, OREGON: O&C: ORAL AUCTION: BID DEPOSIT REQUIRED: \$140,300.00

All timber designated for cutting on: SW¼, W½SE¼, Sec. 19; Lot 1, NW¼SE¼, SE¼SE¼, Sec. 33;
NW¼NW¼, Sec. 34, T. 3 S., R. 5 W. and Lots 1 thru 8 and Lots 10 thru 12, Sec. 25, T. 3 S., R. 6 W, WM.

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
26,406	5,325	Douglas-fir	6,493	\$204.30	\$1,326,519.90
394	191	grand fir	234	\$110.30	\$25,810.20
1,160	186	western hemlock	233	\$94.00	\$21,902.00
1,922	91	red alder	123	\$181.20	\$22,287.60
1,129	30	bigleaf maple	44	\$30.20	\$1,328.80
36	9	western redcedar	12	\$407.90	\$4,894.80
31,047	5,832	Totals	7,139		\$1,402,743.30

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 for the partial cut units were based on a variable plot cruise for estimating the board foot volume of trees. Plots were measured using a 20 basal area factor (BAF) for partial cut units and a 40 BAF for regeneration harvest units. The Right-of-Way volume is based on a 100% cruise for estimating the board foot volume of trees. None of the total sale volume is salvage material. For merchantable Douglas-fir trees the average DBHOB is 15.6 inches; the average gross merchantable log contains 64 bf; the total gross volume is approximately 6,738 MBF; and 96% recovery is expected.

CUTTING AREA: Five (5) units totaling approximately two hundred fifty-one (251) acres, of which two hundred six (206) acres shall be regeneration harvest and forty-five (45) acres shall be partial cut harvest. In addition, approximately five (5) acres of right-of-way shall be cut. Acres shown on Exhibit A have been computed using a Trimble Pro XH Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

DURATION OF CONTRACT: Contract length will be 36 months for cutting and removal of timber.

ADDITIONAL INFORMATION: This contract includes an additional special provision to ensure the Purchaser understands he/she is required to conduct all operations in compliance with Contract Section 12 (Purchaser's Contractual Responsibilities for Liability) and Contract Section 29 (Safety and Health) and the Special Provisions included in Section 42 of this Contract.

OPTIONAL CONTRIBUTION (Sec. 42.ii.): The Purchaser will have the option of performing Coarse Woody Debris or contributing twenty-seven thousand five hundred ninety and 43/100 dollars (\$27,590.43) in lieu thereof. The option must be declared *prior* to contract execution.

LOCATION: The contract area is located approximately six (6) air miles northwest of McMinnville, Oregon. Starting on Pacific Hwy W in McMinnville, head northwest on N Baker St. for 0.3 miles. Turn left and follow NW Baker Creek Road for 1.5 miles. At the traffic circle, continue straight to stay on NW Baker Creek Road for 1.3 miles. Continue straight onto NW Orchard View Road, for 0.2 miles. Turn right to stay on NW Orchard View Road for 0.8 miles. Turn right again to stay on NW Orchard View Road for 2.3 miles. Continue onto NW High Heaven Road for 0.9 miles. Turn right at the Kerr Homestead sign and travel for 0.5 miles where you will encounter Unit 4 of the Lookout Below Timber Sale. Consult the project location map.

ACCESS AND ROAD MAINTENANCE:

BLM is in the process of acquiring the right to use the 3-6-26.4 Road, which accesses the western-most portion of Unit 1. We anticipate a resolution on, or prior to, May 2nd. If access is not granted, that portion of the unit would be harvested from the 3-6-25.2 Road. For additional information contact Brian Christensen at 503-815-1119.

Access is provided by Bureau of Land Management (BLM), Weyerhaeuser Company, McMinnville Water and Light, and the Kerr Family Easement. All roads used in conjunction with this sale will be maintained by the Purchaser. Purchaser will be required to pay a rock wear obligation of one thousand seven hundred ninety-nine and 68/100 dollars (\$1,799.68) to the Government and spread **240 CY** crushed rock on BLM roads for maintenance.

In use of Weyerhaeuser Company controlled roads, under Right-of-Way Agreement No. S-805 (OR044601) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all Weyerhaeuser controlled roads, (b) Purchaser pay a road use obligation fee of nine thousand seven hundred twenty-five and 00/100 dollars (\$9,725.00), (c) Purchaser pay a rockwear fee of five hundred twenty-three and 08/100 dollars (\$523.08), (d) Purchaser provide proof of insurance with limits of \$1,000,000/\$1,000,000/\$1,000,000 and a performance bond of \$3,000, and (e) Purchaser shall fall and buck all timber into suitable lengths for conversion into forest products, and decked next to road on Weyerhaeuser land. (f) Purchaser has the option to enter into a separate Rock and Road Lease Agreement for the manufacturing and stockpiling of rock (at a fee not to exceed \$2.00/CY) from the Wanless Pit (located in SE1/4 T. 3 S., R. 6 W., Section 34, WM.) for a 60 day timeframe. (g) Purchaser shall haul and compact approximately 700 CY waste (from the construction of the 3-6-26.5 road) on the un-named Weyerhaeuser dirt road (located in T. 3 S., R. 6 W., Section 25). Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of McMinnville Water and Light controlled roads, under Right-of-Way Agreement No. S-837 (OR045530) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all McMinnville Water and Light controlled roads, (b) Purchaser pay a road use fee of two hundred thirty-four and 78/100 dollars (\$234.78), (c) Purchaser pay a rockwear fee of five and 54/100 dollars (\$5.54), (d) Purchaser provide proof of insurance with limits of \$1,454,300/\$1,454,300/\$1,000,000 and a performance bond of \$1,000, and (e) Purchaser draft no more than 500,000 gallons of water from McMinnville Water and Light's Haskins Reservoir facility. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

In use of Weyerhaeuser Company controlled roads, under Access Road Easement RE S-442 (OR41554) and as shown on Exhibit E, the Purchaser will be required to follow the road easement conditions which require: (a) Purchaser shall cause road to be maintained in good repair during periods of use by Purchaser and to be left in as good a condition as prior to such use.

In use of Kerr Family controlled roads, under Access Road Easement RE S-443 (OR41556) and as shown on Exhibit E, the Purchaser will be required to follow the road easement conditions which require: (a) Purchaser shall cause road to be maintained in good repair during periods of use by Purchaser and to be left in as good a condition as prior to such use, (b) Purchaser provide proof of insurance with limits of \$50,000/\$100,00/\$100,000, (c) Purchaser shall provide a surety bond or cash bond in the amount of \$1,000, and (d) Purchaser shall cause dust to be controlled through dust abatement methods as to avoid undue damage to the property.

Road usage obligations and rockwear fees have been calculated using timber volumes based on the actual BLM timber sale cruise volume. Additional fees for road use obligation and rockwear will be calculated at the agreed upon rates (in the license agreement) for additional timber volume and be charged to Purchaser. Purchaser maintenance shall include frequent blading and shaping of road surface; ditch, culvert, and catch basin cleaning; removal of minor slides and other debris. Roads shall be left in a condition to withstand adverse weather at the end of the season operations. It shall also include the spreading of 765 CY crushed rock on all Non-BLM roads as needed and instructed by Authorized Officer.

Alternate access and extended season haul on some roads may be available but will require a contract modification. Contact the engineering department at the Tillamook Field Office for more detailed information.

Access to the sale area and Weyerhaeuser rock pit is through six gates. Prospective bidders may obtain a combination from the Tillamook Field Office at 503-815-1100 (Engineering Department).

ROAD CONSTRUCTION AND RENOVATION: The Purchaser will be required to do all work set forth below. The Purchaser shall supply all material unless otherwise indicated.

1. **New Road Construction:**

Road Spur A (Sta. 1+96 – 4+37): 241 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Clearing and Grubbing, Construct Landing as marked, and Spread Spot Rock and Rock Lifts as marked in field and as directed by rock sheets.

Road Spur B: 259 feet, 14-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, and Landing Construction as marked in the field.

Road Spur C: 154 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Clearing and Grubbing, Landing Construction as marked, and Spread Spot Rock and Rock Lifts as marked in field and as directed by rock sheets.

Road 3-5-19.3: 1,054 feet, 14-foot ditched/crowned subgrade, Natural surfacing, Clearing and Grubbing, Construct turnouts, turnaround, and landing as marked, Spread/Place Rock types and quantities as directed by rock sheets, install culverts, and install inlet markers as marked.

Road 3-5-19.4: 1,118 feet, 14-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, and Construct Turnaround and Landing as marked.

Road 3-5-33.1 (New): 553 feet, 16-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, End-haul excess material to Waste Area, and Construct Turnaround and Landing as marked.

Road 3-5-34.2 (Sta. 0+00 – 1+15): 151 feet, 14-foot crowned/ditched subgrade, 12-foot surfaced width, Clearing and Grubbing, Spread/Place Spot & Bedding Rock and Rock Lifts as marked in field and as direct by rock sheets, and install one culvert as marked.

Road 3-5-34.3 (New): 1,217 feet, 14-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, Construct turnouts, turnaround, and landings as marked, and do not cut or damage all orange banded trees due to diameter restrictions.

Road 3-6-25.2: 1,767 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Clearing and Grubbing, Construct turnouts, turnarounds, and landing as marked, Spread/Place Spot & Bedding Rock and Rock Lifts as marked in field and as direct by rock sheets, install one culvert as marked, and Install inlet marker.

Road 3-6-25.3: 1,767 feet, 14-foot outsloped subgrade, Natural surfacing, Clearing and Grubbing, Construct turnouts, turnaround, waste area, and landing as marked, Spread/Place Spot & Bedding Rock as marked in field and as directed by rock sheets, and install one culvert as marked.

Road 3-6-26.5 (New): 1,330 feet, 14-foot ditched/crowned subgrade, Natural surfacing, Clearing and Grubbing, Construct turnouts, turnaround, and landing as marked, Spread/Place Spot & Bedding Rock as marked and as directed by rock sheets, Install culverts as marked, and inlet markers.

2. Renovation:

Road 3-5-18.0: 1,741 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Construct turnarounds, waste area, and landing as marked in the field and directed by Authorized Officer, Spread/Place Rock types and quantities as directed by rock sheets, Place Pit-Run for Slope Armor, and Install culverts and Inlet markers as directed by culvert lists.

Road 3-5-19.0: 0.785 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct turnouts, turnarounds, landing as marked in the field, and two road widenings as marked in the field, Pullback sidecast material as marked in the field, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Place Rip-Rap for Slope Armor, Construct 4 sediment catch basins w/ straw bales in ditchline as marked in the field, Install 3 culverts, Replace 5 culverts, Install 4 downspouts, and Install 9 inlet markers as directed by culvert lists.

Road 3-5-19.2: 0.347 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct turnouts and waste areas as marked in the field, Construct ditchouts as marked, Construct Lead-In ditch to culvert inlet, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Construct 2 sediment catch basins w/ straw bales in ditchline as marked in the field, Install 2 culverts, Replace 1 culvert, and Install 3 inlet markers as directed by culvert lists.

- Road 3-5-34.1: 0.233 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct turnouts as marked in the field, Spread/Place Rock types and quantities as directed by rock sheets, Clean catch basins and culvert outlets, Replace 1 culvert, and Install 3 Inlet markers as directed by culvert lists.
- Road 3-5-34.2 (Sta. 1+51 – 11+71): 1,020 feet, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling, Construct turnout as marked in the field, Install Gate as directed, Spread/Place Rock types and quantities as directed by rock sheets, Construct ditchouts and lead off ditch as marked in the field, Install 1 culvert, and 1 Inlet Marker as directed by culvert lists.
- Road 3-5-34.3 (Reno): 745 feet, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling, Construct turnout as marked in the field, Spread/Place Rock types and quantities as directed by rock sheets, Clean catch basins and culvert inlets and outlets, and Install 1 inlet marker as directed by culvert lists.
- Road 3-6-25.1: 3,153 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Construct turnarounds, waste areas, and landings as marked in the field, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Remove Rip-Rap located at Sta. 0+70 and relocate to 3-5-33.0 (MP 3.652), Remove existing waterbars as marked, Pull back material on fill slope and haul to Waste Area as directed, Establish ditchline from Sta. 11+44 to Sta. 11+81, and Install 1 culvert (located on-site), and Install 1 inlet marker as directed by culvert lists.
- Road 3-6-26.4: 834 feet, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling, Spread/Place Rock types and quantities as directed by rock sheets, and Install 1 inlet marker as directed by culvert lists.
- Road 3-6-26.5 (Reno): 0.151 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling, Spread/Place Rock types and quantities as directed by rock sheets, Clean catch basins and inlets and outlets, and Install 1 inlet marker as directed by culvert lists.
- Road 4-5-4.0 (MP 0.000 – 0.512 & 0.603 – 0.879): 0.788 miles, 14-foot outsloped subgrade (0.284 miles) & 14-foot ditched/crowned subgrade (0.504 miles), 12-foot surfaced width, Blade and Compact Surface, Brushing (MP 0.450 – 0.512 & 0.603 – 0.879) with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct turnouts, turnarounds, and waste area as marked in the field, Construct 2' x 2' ditchline with pit-run armoring as marked in the field, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Install 2 sediment catch basins w/ straw bales in ditchline as marked in the field, Clean catch basins and outlets as needed and marked, Remove existing waterbars and repair road prism, and Install culverts, Construct 3-foot diameter Catch Basin @ MP 0.288, Replace 4 culverts, Install 2 culverts, Install 1 downspout, Install 7 inlet markers as directed by culvert lists.
- Road 3-5-20.0: 1.126 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct turnouts, loaded truck turnaround, and waste areas as marked in the field, Place Rip-Rap for Slope Armoring, Dissipater, and Stabilization Wall as marked, Place Pit-Run for road edge repair on existing catch basins as marked in the field, Construct 2' x 2' ditchline with pit-run armoring as marked in the field, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Remove piled waste and haul to waste area as marked, Install 4 culverts, Replace 5 culverts, Lengthen 2 culverts, Install 1 downspout, Repair 1 downspout, and Install 19 inlet markers as directed by culvert lists.

Road 3-5-33.0: 4.529 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing with some Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Place Rip-Rap as Slope Armoring, Stabilization Wall, and as Dissipater as marked, Construct turnouts and waste areas as marked in the field, Construct 6 sediment catch basins w/ straw bales in ditchline as marked in the field, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Clean catch basins and outlets as needed and marked, Install 2 culverts, Replace 8 culverts, Install 26 inlet markers, Re-install 1 inlet marker, and Install 2 "T" posts on existing flume as direct by culvert lists.

Road 3-6-25.0: 1.765 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling. Place Pit-Run as fill armor as marked, Spread/Place Rock types and quantities as directed by rock sheets, and Replace one culvert and Install one inlet marker as directed by culvert lists.

Weyerhaeuser Pit-East Road: 0.315 miles, 14-foot ditched/crowned subgrade, 12-foot surfaced width, Blade and Compact Surface, Brushing, Ditchline Re-establishment by bunching and hauling, and Spread/Place Rock types and quantities as directed by rock sheets.

3. Improvement:

Road Spur A (Sta. 0+00 – 1+96): 196 feet, 14-foot outsloped subgrade, 12-foot surfaced width, Blade and Compact Surface, Clear and Grubbing, Construct turnaround and ditchouts as marked in the field, and Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets.

Road 3-5-33.1 (Improve): 376 feet, 14-foot outsloped subgrade, Natural Surfacing, Clear and Grubbing, and Construct turnout as marked in the field.

Road 4-5-4.0 (MP 0.512 – 0.603): 0.091 miles, 14-foot ditched/crowned sugrade, 12-foot surfaced width, Blade and Compact Surface, Clear and Grubbing, Spread/Place Rock types and quantities and Rock Lifts as directed by rock sheets, Replace two culverts, Install 1 downspout, and Install 2 culvert inlet markers as directed by culvert lists.

4. Estimated Quantities:

a. Clearing, Grubbing, and Brushing:

12.7 acres of Clearing and Grubbing

11.008 miles of Brushing

b. Culverts:

1,462 feet of 18 inch Corrugated Plastic Pipe (CPP) – Type S

110 feet of 18 inch Corrugated Plastic Pipe (CPP) – Type C

384 feet of 24 inch Corrugated Plastic Pipe (CPP) – Type S

36 feet of 24 inch Corrugated Plastic Pipe (CPP) – Type C

126 feet of 36 inch Corrugated Plastic Pipe (CPP) – Type S

10 feet of 36 inch 14 gage Galvanized Steel Pipe (CMP)

One 24" 30 degree Plastic Elbow

30 Metal "T" Posts for Downspouts

80 Metal "T" Posts for Inlet Markers

c. Aggregate & Asphalt Material:

<u>Quantity</u>	<u>Description</u>
9,357 cubic yards	1-1/2" minus crushed rock – construction rock
5,172 cubic yards	3" minus crushed rock – construction rock
70 cubic yards	Pit-Run –construction rock
890 cubic yards	1-1/2" minus crushed rock -- Culvert bedding material
265 cubic yards	1-1/2" minus crushed rock – BLM Maintenance rock
840 cubic yards	1-1/2" minus crushed rock – Non-BLM Maintenance rock
300 cubic yards	Riprap – (Class 3)

Rock Source: All Crushed, Pit-Run, and Rip-Rap Rock – Weyerhaeuser Pit-East (Wanless Pit) as shown on Exhibit C.

OTHER:

Compaction of all final grades will be required.

Right of way debris will be disposed of by scattering adjacent to all roads, outside of clearing limits.

All roads shall be decommissioned as follows:

The Purchaser shall decommission 3-5-19.3, 3-5-33.1 (New), 3-6-25.3, 3-6-26.5 (New), and Spur B, as shown on Exhibit C, by subsoiling, installing non-drivable waterbars, scattering slash, removing culverts, and blocking.

Purchaser shall decommission roads 3-5-19.4, and 3-5-34.3 (New), as shown on Exhibit C, by installing non-drivable waterbars, scattering slash, removing culverts, and blocking.

Purchaser shall decommission roads 3-6-25.2, 3-5-33.1 (Improve), and Spur A, as shown on Exhibit C, by installing non-drivable waterbars, and blocking. Purchaser shall stabilize roads 3-5-18.0, 3-5-19.0, 3-5-19.2, 3-6-25.1, and 4-5-4.0 (MP 0.450 – 0.879), as shown on Exhibit C, by installing drivable waterbars.

Grass seeding will be required on all newly disturbed areas. Grass seed will be furnished by the Government.

Straw mulch will be required on all disturbed/seeded soils that are wet and/or within 50 feet each side of "live stream" locations and all disposal sites. Grass straw will be furnished by the Government.

All waste from re-establishing ditchlines on rock surfaced roads shall be bunched and end-hauled to designated waste areas.

All slide removal material shall be end-hauled to designated waste areas.

All culverts removed upon road decommissioning shall be salvaged and delivered to the BLM Maintenance Facility at the SW¼ of Section 5, T. 3 S., R. 6 W., WM.

Purchaser may enter into a separate rock and road lease with Weyerhaeuser Company to develop, manufacture, and stockpile rock from their (East) Wanless Pit. Controlled blasting techniques shall be employed during production blasting to contain blasted rock. (The quarry shall be shot in multiple shots with no more than 13,794 CY per blast with 3-5 second time delays between shots.)

SPECIAL ATTENTION ITEMS:

Sec. 41.f. Yellow painted trees within boundaries of the road right-of-way areas

Sec. 42.bb. Chemical Toilets

Sec. 42.hh. Creation of Coarse Woody Debris

SEASONAL RESTRICTION MATRIX:

Restricted Times are Shaded

Activity	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16	1	16
Mechanized falling and Ground-Based Yarding																								
Cable yarding and haul except from Roads 3-5-20.0, 3-5-33.0 (0.00 – 3.705), 19.0, 25.1, 25.2, Spur A, and Spur C																								
Cable yarding and haul from Roads 3-5-20.0, 3-5-33.0 (0.00 – 3.705), 19.0, 25.1, 25.2, Spur A, and Spur C																								
Road renovation, construction, improvement, decommissioning, stabilization, sub-soiling, and maintenance activities	These activities will be allowed year round, except during times when there is a high potential to deliver sediment to streams, per the Authorized Officer.																							
Blasting in Weyerhaeuser Pit-East																								
Rock crushing in Weyerhaeuser Pit-East between two (2) hours before sunset and two (2) hours after sunrise																								
In-Stream Activities in the North Yamhill River watershed																								
In-Stream Activities in the Nestucca River watershed																								

TIMBER SALE CONTRACT SPECIAL PROVISIONS

Sec. 41. Timber and Area Reservation Provisions

RESERVED

- a. All timber in the reserve area(s) shown on Exhibit A, and all trees that are painted orange and/or posted, which mark the boundaries of the Sale Areas.
- b. All trees marked with orange paint above and below stump height within the boundaries of the Sale Areas shown on Exhibit A.
- c. All Pacific madrone and Pacific dogwood in the Sale Areas shown on Exhibit A, which do not present a safety hazard or need to be removed for operational feasibility.
- d. All conifer trees less than six (6) inches diameter at breast height outside bark in the Sale Areas shown on Exhibit A, which do not present a safety hazard or need to be removed for operational feasibility, except Douglas-fir in skyline yarding areas in Unit 1 as designated in 42.ff.1.a.
- e. All existing down logs and snags in the Sale Areas shown on Exhibit A, which do not present a safety hazard as determined by the Authorized Officer. All snags felled shall be retained on site.
- f. Trees felled within road rights-of-way, which are marked with yellow paint above and below stump height, shall remain on site and be placed outside of the road prism, and are not included in the timber sale.

Sec. 42. Special Provisions

a.

LOGGING

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. This written notification must be received by the Authorized Officer no less than seven (7) days prior to the date the Purchaser plans to begin or resume operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.

Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held before the logging plan will be approved. All logging shall be done in accordance with the approved logging plan. The Purchaser shall provide a minimum of seven (7) days notice when requesting the scheduling of a pre-work conference.

Excessive damage to reserve timber, as determined by the Authorized Officer, will result in suspension of yarding operations until corrective measures to prevent further damages have been approved by the Authorized Officer.

No falling, yarding, or loading is permitted in or through the reserve area or across cutting area boundaries shown on Exhibit A, unless otherwise approved by the Authorized Officer.

In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall not cut trees or yard logs within twenty-five (25) feet of seeps, springs or wetlands less than one (1) acre.

Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain approval from the Authorized Officer, and shall take precautions to protect the tree from damage as directed by the Authorized Officer.

At all landings in the sale area, all non-merchantable logs more than eight (8) inches in diameter at the large end and exceeding eight (8) feet in length shall be decked at a location designated by the Authorized Officer.

In skyline yarding areas shown on Exhibit A, all yarding shall be done with a skyline or similar cable system equipped with a slack pulling carriage capable of transporting logs completely clear of the ground and capable of yarding one thousand five hundred (1,500) feet slope distance from the landing and at least seventy-five (75) feet laterally from the skyline to the designated sky road and with minimum damage to reserved trees. The carriage shall be capable of being held in position on the skyline during all lateral yarding and shall be able to pass intermediate support jacks as required. The leading end of all logs shall be transported free of the ground during yarding. Full suspension is required within fifty (50) feet of streams. The rigging of tail or lift trees, intermediate supports and use of tail holds outside the Sale Areas shall be required where necessary to meet this requirement. If trees are cut within a no harvest stream buffer for operational purposes, they will remain on site and will be felled away from the stream unless otherwise directed by the Authorized Officer. Skyline corridors shall not exceed fifteen (15) feet in width and have an average spacing of one hundred fifty (150) feet.

In ground based yarding areas shown on Exhibit A, utilize existing skid trails as much as possible. All skidding shall be done by equipment operated entirely on skid trails that have been approved by the Authorized Officer. Harvest equipment operating off of approved skid trails shall use the minimum number of passes necessary. The area composed of skid trails shall not exceed fifteen (15) percent of the total yarding area within a unit. Ground based operations shall be limited to slopes of thirty-five (35) percent or less. Excavation on designated skid trails shall be limited to a maximum cut of one (1) foot unless otherwise approved by the Authorized Officer. All trees that must be removed to facilitate construction of these skid trails shall be felled prior to falling operations in the remainder of this area. The Purchaser shall directionally fall trees into the lead with the skidding direction and winch or carry the logs to the skid trails. Temporary logging roads, skid trails, and harvester/forwarder trails would be water barred and blocked as directed by the Authorized Officer, after each operating season before the fall wet season begins.

Before cutting and removing any trees necessary to facilitate logging in the Partial Cut Areas shown on Exhibit A, the Purchaser shall identify the location of skid trails, cable yarding roads, and tail hold, tieback, guy line, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference, and documented in the Logging Plan.

Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding the following conditions must be met:

1. All skid trails and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees.
2. The Purchaser may immediately cut and remove additional timber to clear skid trails and cable yarding roads; and provide tail hold, tieback, guy line, lift and intermediate support trees when the trees have been marked with blue or green paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. When trees are marked with yellow paint above and below stump height they may be cut, but must remain on site. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Sec. 3.(b). of the contract or sufficient bonding has been provided in accordance with Sec. 3.(d). of the contract.
3. The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9. of the contract; or, the Authorized Officer determines that the tree species are not listed in Exhibit B of this contract and otherwise reserved in Sec. 41. of the contract or any tree that exceeds thirty-four (34) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Sec. 8. of the contract.
4. This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Sec. 10. of the contract constitutes a violation of the contract and under Sec. 13. of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.

5. If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8. or Sec. 9. of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.

SAFETY

Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

In the event that the Authorized Officer identifies a conflict between the requirements of this contract or agreed upon methods of proceeding hereunder and State or Federal safety requirements, the contract may be modified. If the cost of such contract modification is of a substantial nature (\$2,000.00 or more), the Purchaser may request, in writing, an adjustment in the Total Purchase Price specified in Sec. 2. of the timber sale contract, as amended, to compensate for the changed conditions.

Unless otherwise specified in writing, when operations are in progress adjacent to or on roads and/or trails in the harvest unit area, the Purchaser shall furnish, install, and maintain all temporary traffic controls that provide the road or trail user with adequate warning of and protection from hazardous or potentially hazardous conditions associated with its operations. Purchaser shall prepare a Traffic Control Plan, which the Purchaser has determined is compliant with state and local OSHA and Transportation standards no later than the pre-work meeting and prior to commencing operations. Traffic control devices shall be appropriate to current operating and/or weather conditions and shall be covered or removed when not needed. Flagmen and devices shall be as specified in state OSHA and Transportation standards for logging roads or the "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD) published by the U.S. Department of Transportation - Federal Highway Administration. Included in the Traffic Control Plan, Purchaser shall note traffic control device locations on a Purchaser-produced copy of the contract Exhibit A Map.

SEASONAL RESTRICTIONS

No mechanized falling or ground based yarding shall be conducted in the Sale Areas shown on Exhibit A outside of dry season (generally October 16 of one calendar year to May 31 of the following calendar year) as determined by the Authorized Officer.

No cable yarding or haul except from Roads 3-5-20.0, 3-5-33.0 (0.00 – 3.705), 19.0, 25.1, 25.2, Spur A, and Spur C in the Sale Areas shown on Exhibit A outside of dry season (generally October 16 of one calendar year to May 31 of the following calendar year) as determined by the Authorized Officer.

m. Weyerhaeuser Rock Pit-East (T3S., R6W., section 34): no blasting shall occur between April 1 and September 15, both days inclusive, unless otherwise approved by the Authorized Officer. Rock crushing shall not begin until 2 hours after sunrise and shall conclude 2 hours before sunset from April 1 to September 15, both days inclusive, unless otherwise approved by the Authorized Officer.

n. No road renovation, road construction, road improvement, road decommissioning or stabilization, sub-soiling, or road maintenance shown on Exhibits C, D, or E during times when the Authorized Officer determines there is a high potential to deliver sediment to streams.

o. No work required in live streams shall be conducted between October 1 of one calendar year and July 14 of the following calendar year in the North Yamhill River watershed, both days inclusive, and between September 14 of one calendar year and June 30 of the following calendar year in the Nestucca River watershed, both days inclusive, unless BLM receives a waiver from the Oregon Department of Fish and Wildlife.

ROAD CONSTRUCTION, IMPROVEMENT, RENOVATION, MAINTENANCE AND USE

q. The Purchaser shall construct natural surfaced roads: 3-5-19.3, 3-5-19.4, 3-5-33.1 (New), 3-5-34.3 (New), 3-6-25.3, 3-6-26.5 (New), and Spur B. The Purchaser shall construct surfaced roads: 3-5-34.2 (Sta. 0+00 – 1+51), 3-6-25.2, Spur A (Sta. 1+96 – 4+37), and Spur C. The Purchaser shall renovate surfaced roads: 3-5-18.0, 3-5-19.0, 3-5-19.2, 3-5-20.0, 3-5-33.0, 3-5-34.1, 3-5-34.2 (Sta. 1+51 – 11+71), 3-5-34.3 (Reno), 3-6-25.0, 3-6-25.1, 3-6-26.4, 3-6-26.5 (Reno), 4-5-4.0 (MP 0.000 – 0.512 & 0.603 – 0.879), and Weyerhaeuser Pit-East Road. The Purchaser shall improve natural surfaced roads: 3-5-33.1 (Improve). The Purchaser shall improve surfaced roads: 4-5-4.0 (MP 0.512 – 0.603) and Spur A (Sta. 0+00 – 1+96). Construction, renovation, and improvement shall be done in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.

s. Any required construction, renovation, and improvement of roads shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over that road.

The Purchaser shall decommission roads 3-5-19.3, 3-5-33.1 (New), 3-6-25.3, 3-6-26.5 (New), and Spur B, as shown on Exhibit C, by subsoiling, installing non-drivable waterbars, scattering slash, removing culverts, and blocking. Purchaser shall decommission roads 3-5-19.4 and 3-5-34.3 (New) as shown on Exhibit C, by installing non-drivable waterbars, scattering slash, removing culverts, and blocking. Purchaser shall decommission roads 3-5-33.1 (Improve), 3-6-25.2, and Spur A, as shown on Exhibit C, by installing non-drivable waterbars, and blocking. Purchaser shall stabilize roads 3-5-18.0, 3-5-19.0, 3-5-19.2, 3-6-25.1, 4-5-4.0 (MP 0.450 – 0.879), and Spur C as shown on Exhibit C, by installing drivable waterbars.

Subsoiling shall consist of loosening the soil to a depth of eighteen (18) inches utilizing excavator attachments, log loader tongs or other approved equipment acceptable to the Authorized Officer. No subsoiling shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the road. Barriers shall be constructed and clearing debris shall be placed on and around the barriers so as to prevent further use of the road by vehicles as shown on Exhibit C. Decommissioning and stabilization shall be completed within thirty (30) days of completion of yarding and hauling operations on that road.

The Purchaser is authorized to use the roads listed below and shown on Exhibit E for the removal of Government timber sold and rock hauled under the terms of this contract, provided that the Purchaser pay the rockwear obligations described in section 42.u. Any road shown on Exhibit E and requiring improvement, renovation, or construction in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the improvement, renovation, or construction from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Used (Miles)	Road Control	Road Surface Type	Maintenance Responsibility
Spur A	0.083	BLM	Rocked	Purchaser
Spur B	0.049	BLM	Natural	Purchaser
Spur C	0.029	BLM	Rocked	Purchaser
3-5-18.0	0.330	BLM	Rocked	Purchaser
3-5-19.0	0.785	BLM	Rocked	Purchaser
3-5-19.2 (Seg. A1-A3)	0.347	BLM	Rocked	Purchaser
3-5-19.3	0.220	BLM	Natural	Purchaser
3-5-19.4	0.212	BLM	Natural	Purchaser
3-5-20.0 (Seg. F, E, D, C5-C3)	1.126	BLM	Rocked	Purchaser
3-5-33.1 (Improve)	0.071	BLM	Natural	Purchaser
3-5-33.1 (New)	0.105	BLM	Natural	Purchaser
3-5-34.2 (Seg. B)	0.013	BLM	Rocked	Purchaser
3-5-34.3 (New) (Seg. A2, B)	0.231	BLM	Natural	Purchaser
3-6-25.0 (Seg. A1-A2, D1-E2)	0.920	BLM	Rocked	Purchaser
3-6-25.1	0.597	BLM	Rocked	Purchaser
3-6-25.2	0.335	BLM	Rocked	Purchaser
3-6-25.3	0.335	BLM	Natural	Purchaser
3-6-26.5 (New) (Seg. A3, B)	0.252	BLM	Natural	Purchaser
4-5-4.0 (Seg. D-F)	0.429	BLM	Rocked	Purchaser

The Purchaser shall pay the Government a rockwear fee of one thousand seven hundred sixty-nine and 25/100 dollars (\$1,769.25) for transportation of timber included in the contract area over said roads. The above rockwear fee is for the use of seven (7) miles of road or less. If the total rockwear fee does not exceed five hundred and 00/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total rockwear fee exceeds five hundred and 00/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the rockwear obligations.

In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the provisions of Right-of-Way and Road Use Agreement No. S-805 (OR044601), between the United States and Weyerhaeuser Company. The Purchaser will be required to enter into a license agreement prior to commencement of operations. The Purchaser shall furnish to the Authorized Officer a copy of the required executed license agreement. The license agreement conditions include:

- 1) Payment to Weyerhaeuser Company a road use obligation fee of nine thousand seven hundred twenty-five and 00/100 dollars (\$9,725.00).
- 2) Payment to Weyerhaeuser Company a rockwear fee obligation of five hundred twenty-three and 08/100 dollars (\$523.08). Road Use obligation and rockwear fees have been calculated using the BLM timber sale cruise volumes. Additional fees for road use obligation and rockwear will be calculated at the agreed upon rates (in the license agreement) for the sale of additional timber under modification to the contract and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination.
- 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made part hereof. The Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements.
- 4) The Purchaser shall fall all timber and buck all logs suitable for conversion into forest products, into lengths designated by Weyerhaeuser. The Purchaser shall deck logs at reasonable places along the right-of-way, as designated by Weyerhaeuser, all without expense to Weyerhaeuser. The Purchaser agrees that any such proposed road shall be constructed so that it will be possible for Weyerhaeuser to remove such logs within twelve (12) months after being felled. The Purchaser shall be liable for any damage or injury to such logs resulting from any negligent or unlawful act of the Purchaser.
- 5) Default by the Purchaser of said Right-of-Way and Road Use Agreement of any license agreement executed pursuant thereto, 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. The Purchaser will be required to carry liability insurance with the limits of \$1,000,000/ \$1,000,000/ \$1,000,000 and provide performance bond in the amount of \$3,000.

Road No. and Segment	Length to be Used (Miles)	Road Control	Road Surface Type	Maintenance Responsibility
3-5-34.1 (Seg. A4-A6)	0.233	Weyerhaeuser	Rocked	Purchaser
3-5-34.2 (Seg. A1-A2)	0.209	Weyerhaeuser	Rocked	Purchaser
3-5-34.3 (Seg. A1)	0.141	Weyerhaeuser	Rocked	Purchaser
3-6-26.4 (Seg. B1-B2)	0.148	Weyerhaeuser	Rocked	Purchaser
3-6-26.5 (Seg. A1-A2)	0.151	Weyerhaeuser	Rocked	Purchaser
3-6-25.0 (Seg. B1-C, F1-G1)	0.845	Weyerhaeuser	Rocked	Purchaser
Weyerhaeuser Pit-East Rd.	0.315	Weyerhaeuser	Rocked	Purchaser

In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. S-837 (OR045530), between the United States and McMinnville Water & Light. The Purchaser will be required to enter into a license agreement prior to commencement of operations. The Purchaser shall furnish to the Authorized Officer a copy of the required executed license agreement. The license agreement conditions include:

1) Payment to McMinnville Water & Light a road use obligation fee of two hundred thirty-four and 78/100 dollars (\$234.78). 2) Payment to McMinnville Water & Light a rockwear obligation fee of five and 54/100 dollars (\$5.54). Road Use obligation and rockwear fees have been calculated using the BLM timber sale cruise volume. Additional fees for rockwear will be calculated at the agreed upon rates (in the license agreement) for the sale of additional timber under modification to the contract and be charged to Purchaser. All payments shall be made to Licensor prior to contract termination. 3) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made part hereof. The Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) Default by the Purchaser of said Right-of-Way and Road Use Agreement of any license agreement executed pursuant thereto, 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 result of the violation of this provision. The Purchaser will be required to carry liability insurance with the limits of \$1,454,300/ \$1,454,300/ \$1,000,000 and provide performance bond in the amount of \$1,000.

Road No. and Segment	Length Used (Miles)	Road Control	Road Surface Type	Maintenance Responsibility
3-6-26.4 (Seg. A)	0.010	McMinnville Water & Light	Rocked	Purchaser

In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Access Road Easement RE S-442 (OR041554), which is over land currently owned by Weyerhaeuser Company. This document is available for inspection at the Bureau of Land Management, Northwest Oregon District Office. The road easement conditions include:

1) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made part hereof. The Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements.

Road No. and Segment	Length Used (Miles)	Road Control	Road Surface Type	Maintenance Responsibility
4-5-4.0 (Seg. A1-A2)	0.284	Weyerhaeuser	Rocked	Purchaser

In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Access Road Easement RE S-443 (OR041556), which is over land currently owned by Brent Kerr. This document is available for inspection at the Bureau of Land Management, Northwest Oregon District Office. The road easement conditions include: 1) The Purchaser will be required to carry liability insurance with the limits of \$50,000/ \$100,000/ \$100,000 and provide a surety bond (or cash bond) in the amount of \$1,000. 2) During the periods of use for transportation of forest products Purchaser shall cause dust to be controlled through dust abatement methods so as to avoid undue damage to grantors' property. 4) The Purchaser shall perform any road repair and maintenance work on roads, under the terms of Exhibit D, "Road Maintenance Specifications", of this contract which is attached hereto and made part hereof. The Purchaser shall spread crushed rock on roads as directed by Authorized Officer as part of maintenance requirements.

Road No. and Segment	Length Used (Miles)	Road Control	Road Surface Type	Maintenance Responsibility
4-5-4.0 (Seg. B-C)	0.166	Brent Kerr	Rocked	Purchaser

The Purchaser also agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.

The Purchaser shall perform any required road repair and maintenance work on roads used, under the terms of Exhibit D "Road Maintenance Specifications" and Exhibit E "Maintenance and Access Maps", and deemed as Purchaser Maintenance in Section 42.t., 42.v., 42.w., 42.x., and 42.y. of this contract, which is attached hereto and made a part thereof. Purchaser shall spread two hundred forty (240) cubic yards of spot rock on BLM roads and eight hundred forty (765) cubic yards of spot rock on non-BLM timberland roads used for this timber sale, as directed by Authorized Officer as part of maintenance requirements.

ENVIRONMENTAL PROTECTION

In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall supply and maintain chemical toilets at each active work site in Units 1 and 2. Toilets shall receive proper servicing and maintenance. Employees shall use the toilet facilities provided and shall be notified of sanitary regulations and fully instructed as to their meaning and importance. The Purchaser is responsible for enforcing the sanitary regulations.

bb.

In order to prevent the spread of noxious weeds, the Purchaser shall pressure wash all road construction and ground based logging equipment that will be used off of existing roads, as well as loaders and mechanically propelled brush cutters, 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.

cc.

The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:

dd.

1. threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
2. when, in order to 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 to protect occupied marbled murrelet sites in accordance with management direction of the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
3. federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
4. when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
5. when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
6. species have been discovered which were identified for protection in accordance with management direction established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
7. when, in order to protect species which were identified for protection in accordance with management direction established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

Those operations necessary for a safe removal of personnel and equipment from the contract area and those directed by the Contracting Officer, which are required in order to leave the contract area in an acceptable condition will be permitted. Discontinued operations may be resumed upon receipt of written instructions and authorization by the Contracting Officer.

During any period of suspension, the Purchaser may withdraw performance and payment bond coverage aside from that deemed necessary by the Authorized Officer to secure cut and/or removed timber for which the Bureau of Land Management has not received payment, and/or unfulfilled contract requirements associated with harvest operations that have already occurred and associated post-harvest requirements.

In the event of a suspension period or a combination of suspension periods that exceed a total of thirty (30) days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond thirty (30) days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b. of the contract within fifteen (15) days after the bill for collection is issued, subject to Section 3.j. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of thirty (30) days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

In the event that operating time is lost as a result of the incorporation of additional contract requirements, or delays due to Endangered Species Act consultation with the U.S. Fish and Wildlife Service or U.S. National Marine Fisheries Service, or court-ordered injunctions, the Purchaser agrees that an extension of time, without reappraisal, will constitute a full and complete remedy for any claim that delays due to the suspension hindered performance of the contract or resulted in damages of any kind to the Purchaser.

The Contracting Officer may determine that it is necessary to modify the contract or terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls in accordance with the ROD and RMP, (protect occupied marbled murrelet sites in accordance with the ROD and RMP), protect species that have been discovered which were identified for protection in accordance with management direction established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, if able to proceed without causing incidental take of northern spotted owls in accordance with the ROD and RMP, consistent with marbled murrelet occupied site protection in accordance with the ROD and RMP, consistent with species protection in accordance with management direction established in the ROD and RMP, or court order requirements necessitating the modification or termination.

In the event the contract is modified or cutting and removal rights are terminated under this subsection, the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the contract area.

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act cannot be interpreted, in itself, to mean that the Government had not acted reasonably in regard to its duties to the Purchaser under this contract.

cc.

FIRE PREVENTION

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 AND SITE PREPARATION

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 approximately one hundred twenty-two (122) acres of harvest area 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 purchasers operations under the terms of this contract.

1. Slashing and lopping shall be completed in all skyline yarding areas in Unit 1 shown on Exhibit A.

a. All standing woody vegetation (brush), whips, and designated trees over one (1) foot in height shall be felled (slashed) and lopped into six (6) foot or smaller lengths. Designated trees to be slashed include Douglas-fir six (6) inches or less and vine maple.

b. All logging slash and slashed woody vegetation that is greater than six (6) feet in length and between one (1) inch and six (6) inches in diameter shall be lopped into six (6) foot or smaller lengths. Larger material which has a portion meeting this specification must be bucked at the six (6) inch diameter.

c. All woody vegetation, whips, and designated trees shall be completely severed from the stump(s). Stump height shall not exceed six (6) inches measured on the uphill side.

- d. Red alder and bigleaf maple shall be reserved and undamaged.
2. Excavator pile and burn slash within ground based portions of regeneration harvest units as directed by the Authorized Officer and within twenty-five (25) feet of 3-5-19, 3-5-20, 3-5-33, 3-5-18 and 4-5-4 roads in harvest areas shown on Exhibit A. 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. Pacific madrone and Pacific dogwood shall be reserved and undamaged.
 - c. Machine piles shall be located as far as possible from green trees, snags, or unit boundaries to minimize damage.
 - d. Machine piles shall be kept free of dirt and other non-woody debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels.
 - e. A minimum 10-foot by 10-foot cover of four (4) mil. polyethylene shall cap each machine pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. 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.
 - f. Cutting Areas shall be piled during the same season that they are logged.
3. Pile and burn landing slash within thirty (30) feet of the edge of each landing, all tops, broken pieces, limbs and debris between one (1) inch and eight (8) inches in diameter at the large end and between three (3) feet and eight (8) feet in length shall be piled within fifteen (15) days of completion of hauling logs from that landing. For larger material, refer to Sec. 42.f. Landing piles shall be kept free of dirt and located adjacent to roads at least twenty (20) feet from any reserve tree and/or as directed by the Authorized Officer. Upon completion of landing piling, the Purchaser shall prepare the landing piles for burning by securely covering each landing pile with four (4) mil. thick polyethylene plastic film at least twenty (20) feet wide. Landing piles shall be seventy-five (75) percent covered, with the covering extending three-quarters (3/4) of the way down all sides. The plastic shall be oriented southwest to northeast. Pieces of burnable material shall be placed on top of the plastic to secure it from moving and to prevent it from blowing off during strong wind episodes. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. No landing debris shall be dozed off the landing and covered with dirt.

Debris which has been buried and is determined to be the source of holdover fire shall be excavated by the Purchaser, at the Purchaser's expense, with a tractor and/or hydraulic excavator as directed by the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.

PRESCRIBED BURNING

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. 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, and Mop-up of Piles on Units:
 - a. One (1) 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. Ten-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, eleven (11) drip torches, one (1) power saw, and one (1) backpack pump, with 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.

CREATION OF COARSE WOODY DEBRIS

hh. In the Coarse Woody Debris Creation Units shown on Exhibit F, the Purchaser shall, upon completion of yarding, select and fell, saw-top, high-girdle, or basal-girdle three hundred eighty (380) standing live trees in accordance with Exhibit F. No adjustments of volume or value shall be made to meet these requirements.

CONTRIBUTIONS

The Purchaser shall create coarse woody debris in accordance with Section 42.hh. The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of twenty-seven thousand five hundred ninety and 43/100 dollars (\$27,590.43), and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution 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 RESTRICTION

All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export under the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as (1) any logs except those of utility grade or below, such as saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters (8-3/4) inches in thickness; (3) split or round bolts or other round wood not processed to standards and specifications suitable for end-product uses; or (4) western redcedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8-3/4) inches in thickness or less; (6) shakes and shingles. Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).

The Purchaser is required to maintain and upon request to furnish the following information:

1. Date of last export sale.
2. Volume of timber contained in last export sale.
3. Volume of timber exported in the past twelve (12) months from the date of last export sale.
4. Volume of Federal timber purchased in the past twelve (12) months from date of last export sale.
5. Volume of timber exported in succeeding twelve (12) months from date of last export sale.
6. Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a "Certificate as to Nonsubstitution and Domestic Processing of Timber". The original of such certification shall be filed with the Authorized Officer.

Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

In the event an affiliate of the Purchaser has exported private timber within twelve (12) months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in the form specified by the Authorized Officer and furnish the information to the Authorized Officer.

Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer Form 5460-15 (Log Scale and Disposition of Timber Removed Report) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-

year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.

Unless otherwise authorized in writing by the Authorized Officer, the Purchaser shall, prior to the removal of timber from the contract area, brand with Purchaser's registered log brand at least one end of each log, bolt, or other roundwood and identify each of these by painting with highway yellow paint.

In the event of the Purchaser's noncompliance with this subsection of the contract, the Authorized Officer may take appropriate action as set forth in Sec. 10. of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one (1) year.

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

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

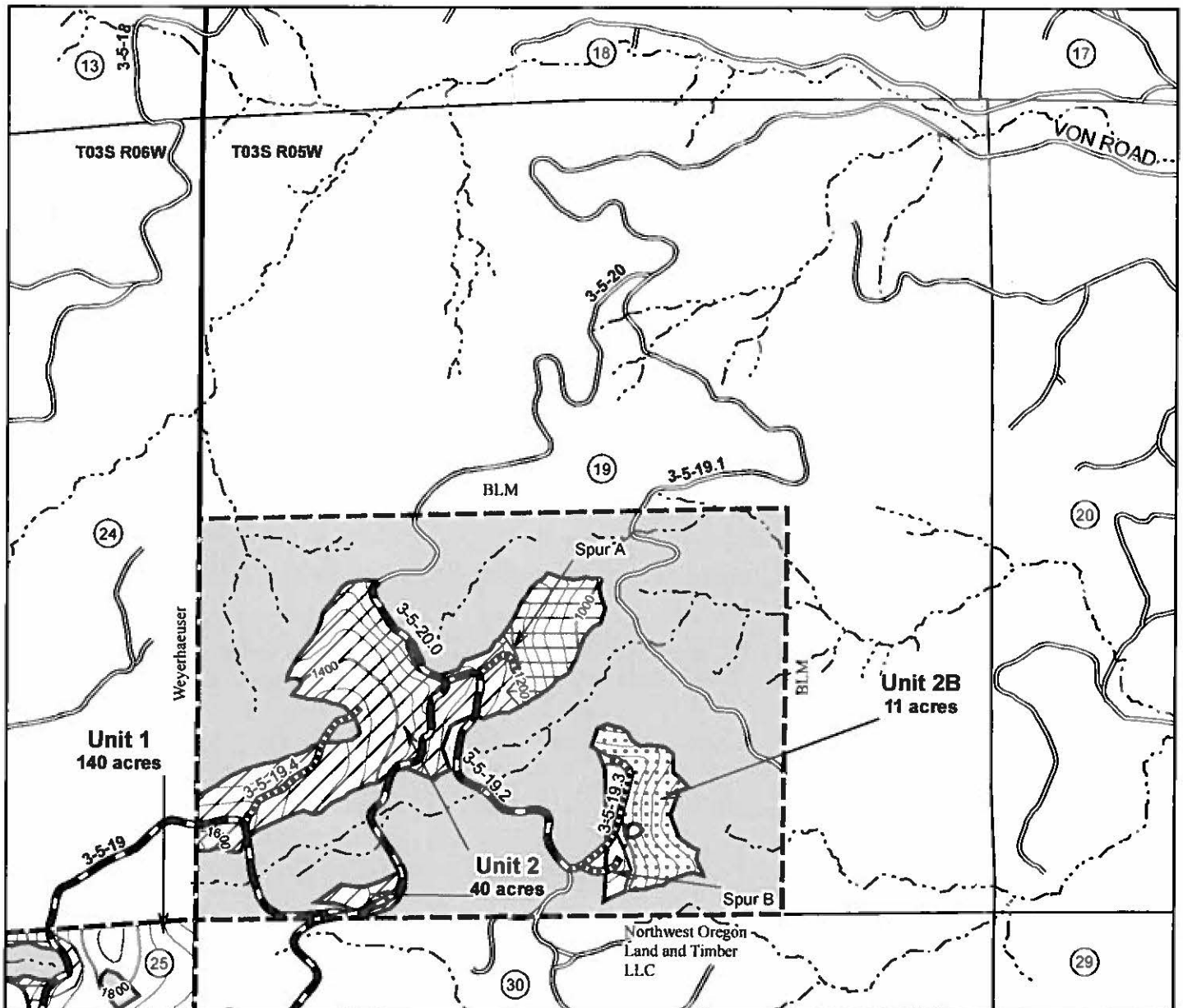
At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Lookout Below Timber Sale
Exhibit A
Page 1 of 3

TIMBER SALE CONTRACT MAP - CONTRACT NO. ORN04-TS-2019.0401

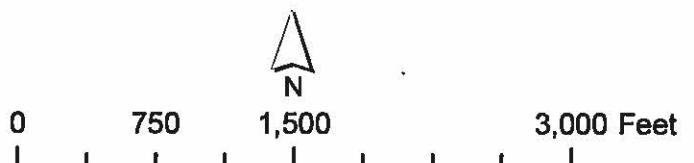
T03S-R05W Section 19 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Contour Interval: 40ft

- | | |
|------------------------|------------------------------------|
| Road to be constructed | Regeneration Cut Area-Ground Based |
| Road to be renovated | Regeneration Cut Area-Skyline |
| Other Roads | Partial Cut Area-Ground Based |
| Streams | Partial Cut Area-Skyline |
| Boundary-Cutting Area | Contract Area |
| | Reserve Area |

Regeneration Cut Area	206 Acres
Partial Cut Area	45 Acres
Right-of-Way Area	5 Acres
Reserve Area	579.7 Acres
Total Contract Area	835.7 Acres



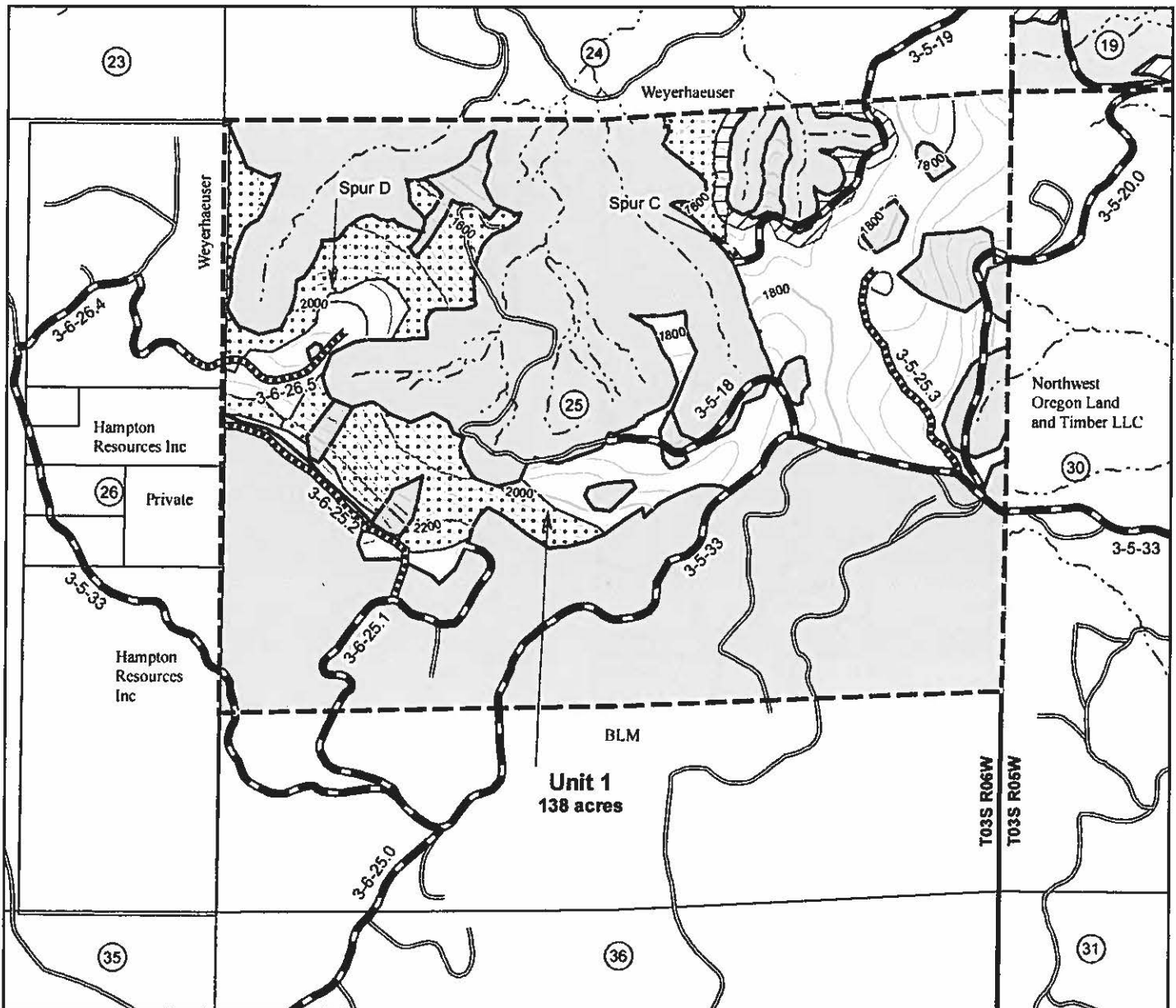
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification. Note: Boundaries of harvest area and rights-of-ways (ROW) are painted orange and posted. Harvest area acres do not include existing roads. Acres shown on Exhibit A for harvest area have been computed using a S1 mobile mapper and Trimble R1 GNSS Receiver.
Prepared By: csween Date: 4/10/2019

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Lookout Below Timber Sale
Exhibit A
Page 2 of 3

TIMBER SALE CONTRACT MAP - CONTRACT NO. ORN04-TS-2019.0401

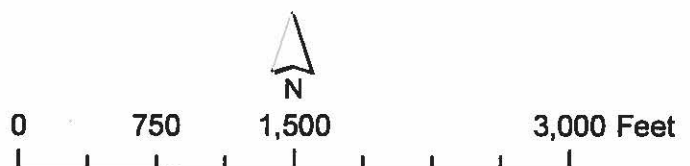
T03S-R06W Section 25 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Contour Interval: 40ft

- | | |
|------------------------|------------------------------------|
| Road to be constructed | Regeneration Cut Area-Ground Based |
| Road to be renovated | Regeneration Cut Area-Skyline |
| Other Roads | Partial Cut Area-Ground Based |
| Streams | Partial Cut Area-Skyline |
| Boundary-Cutting Area | Contract Area |
| | Reserve Area |

Regeneration Cut Area	206 Acres
Partial Cut Area	45 Acres
Right-of-Way Area	5 Acres
Reserve Area	579.7 Acres
Total Contract Area	835.7 Acres



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification. Note: Boundaries of harvest area and rights-of-ways (ROW) are painted orange and posted. Harvest area acres do not include existing roads. Acres shown on Exhibit A for harvest area have been computed using a S1 mobile mapper and Trimble R1 GNSS Receiver.

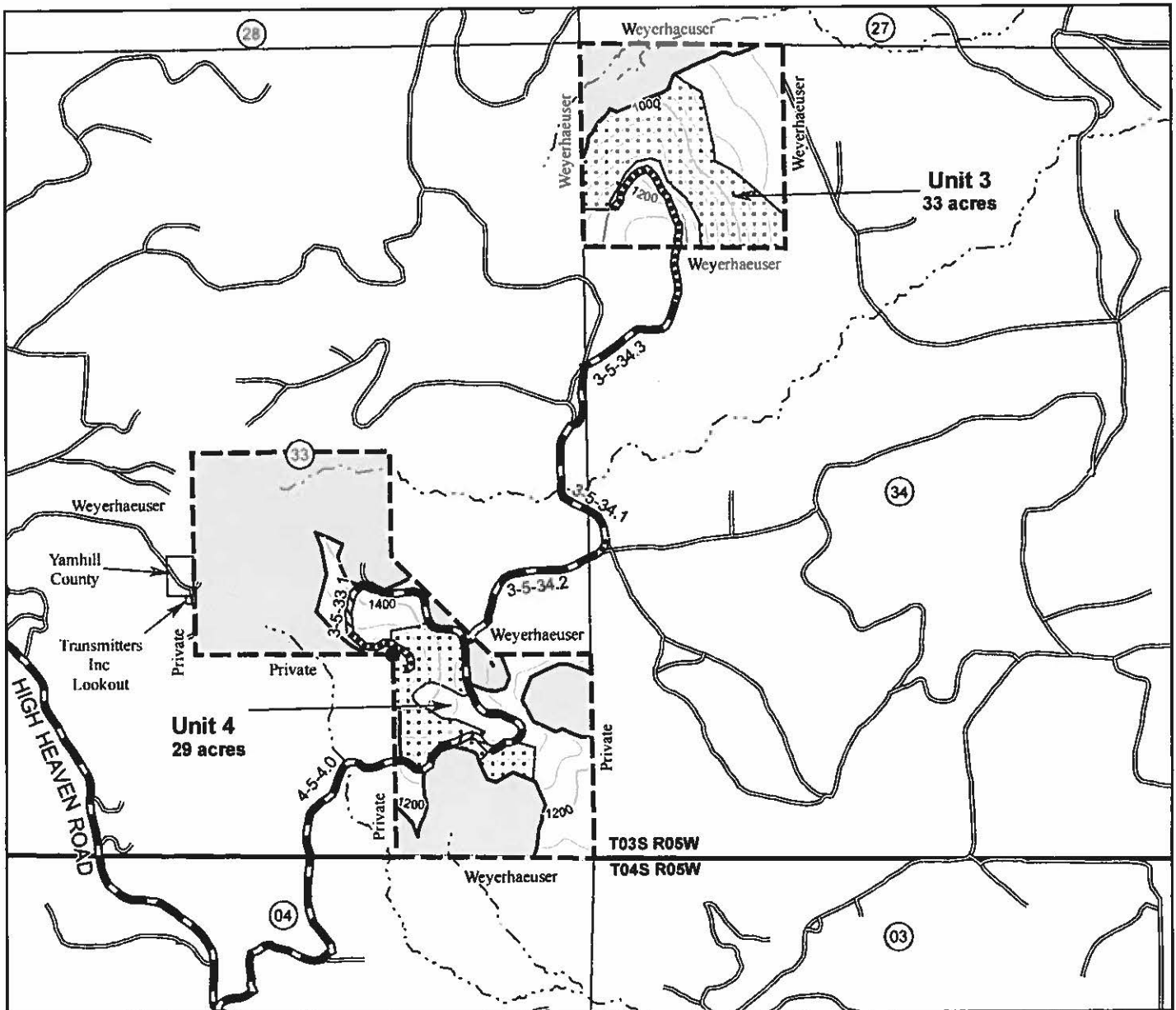
Prepared By: csween Date: 4/10/2019

United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Lookout Below Timber Sale
Exhibit A
Page 3 of 3

TIMBER SALE CONTRACT MAP - CONTRACT NO. ORN04-TS-2019.0401

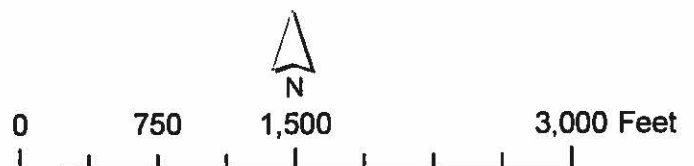
T03S-R05W Section 33 & 34 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Contour Interval: 40ft

- Road to be constructed
- Road to be improved
- Road to be renovated
- Other Roads
- Streams
- Boundary-Cutting Area
- Regeneration Cut Area-Ground Based
- Regeneration Cut Area-Skyline
- Contract Area
- Reserve Area
- Found Corner

Regeneration Cut Area	206 Acres
Partial Cut Area	45 Acres
Right-of-Way Area	5 Acres
<u>Reserve Area</u>	<u>579.7 Acres</u>
Total Contract Area	835.7 Acres



No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification. Note: Boundaries of harvest area and rights-of-ways (ROW) are painted orange and posted. Harvest area acres do not include existing roads. Acres shown on Exhibit A for harvest area have been computed using a S1 mobile mapper and Trimble R1 GNSS Receiver.
Prepared By: csween Date: 4/10/2019

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE
5450-3

Contract No.
ORN04-TS-2019.0401
Lookout Below

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

SPECIES	ESTIMATED VOLUME OR QUANTITY (Units Specified)		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir	6,493.0	MBF	\$204.30	\$1,326,519.90
Grandfir	234.0	MBF	\$110.30	\$25,810.20
Western Hemlock	233.0	MBF	\$94.00	\$21,902.00
Red Alder	123.0	MBF	\$181.20	\$22,287.60
Bigleaf Maple	44.0	MBF	\$30.20	\$1,328.80
Western Redcedar	12.0	MBF	\$407.90	\$4,894.80
TOTALS	7,139.0	MBF		\$1,402,743.30

The apportionment of the total purchase price is as follows:

Unit 1

Douglas Fir	3,716.0 MBF	X	\$204.30 =	\$759,178.80
Grandfir	148.0 MBF	X	\$110.30 =	\$16,324.40
Western Hemlock	148.0 MBF	X	\$94.00 =	\$13,912.00
Red Alder	78.0 MBF	X	\$181.20 =	\$14,133.60
Bigleaf Maple	28.0 MBF	X	\$30.20 =	\$845.60
Western Redcedar	8.0 MBF	X	\$407.90 =	\$3,263.20
Total	4126.0 Mbf			\$807,657.60 138.0 acres = \$5,852.59/Acre

Unit 2

Douglas Fir	586.0 MBF	X	\$204.30 =	\$119,719.80
Total	586.0 Mbf			\$119,719.80 40.0 acres = \$2,993.00/Acre

Unit 2B

Douglas Fir	301.0 MBF	X	\$204.30 =	\$61,494.30
Grandfir	12.0 MBF	X	\$110.30 =	\$1,323.60
Western Hemlock	12.0 MBF	X	\$94.00 =	\$1,128.00
Red Alder	7.0 MBF	X	\$181.20 =	\$1,268.40
Bigleaf Maple	2.0 MBF	X	\$30.20 =	\$60.40
Western Redcedar	1.0 MBF	X	\$407.90 =	\$407.90
Total	335.0 Mbf			\$65,682.60 11.0 acres = \$5,971.15/Acre

Unit 3

Douglas Fir	903.0 MBF	X	\$204.30 =	\$184,482.90
Grandfir	37.0 MBF	X	\$110.30 =	\$4,081.10
Western Hemlock	36.0 MBF	X	\$94.00 =	\$3,384.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-3

Contract No.

ORN04-TS-2019.0401

Lookout Below

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

Unit 3

Red Alder	19.0 MBF	X	\$181.20	=	\$3,442.80
Bigleaf Maple	7.0 MBF	X	\$30.20	=	\$211.40
Western Redcedar	2.0 MBF	X	\$407.90	=	\$815.80
Total	1004.0 Mbf				\$196,418.00 33.0 acres = \$5,952.06/Acre

Unit 4

Douglas Fir	794.0 MBF	X	\$204.30	=	\$162,214.20
Grandfir	32.0 MBF	X	\$110.30	=	\$3,529.60
Western Hemlock	32.0 MBF	X	\$94.00	=	\$3,008.00
Red Alder	17.0 MBF	X	\$181.20	=	\$3,080.40
Bigleaf Maple	6.0 MBF	X	\$30.20	=	\$181.20
Western Redcedar	1.0 MBF	X	\$407.90	=	\$407.90
Total	882.0 Mbf				\$172,421.30 29.0 acres = \$5,945.56/Acre

Unit RW

Douglas Fir	193.0 MBF	X	\$204.30	=	\$39,429.90
Grandfir	5.0 MBF	X	\$110.30	=	\$551.50
Western Hemlock	5.0 MBF	X	\$94.00	=	\$470.00
Red Alder	2.0 MBF	X	\$181.20	=	\$362.40
Bigleaf Maple	1.0 MBF	X	\$30.20	=	\$30.20
Total	206.0 Mbf				\$40,844.00 6.0 acres = \$6,807.33/Acre

ORNO4-TS-2019-0401
Lookout Below Timber Sale
Exhibit C

150: ROAD PLAN AND DETAIL SHEET

Notes:

1. **Clearing Limits:** Add to each shoulder 1 ft. for 1/4 mile of 1-4 ft. and 2 ft. for 1/4 mile of 5 ft. or more. This is the shoulder of curves as follows: (See Road Plan Map R-1-100 C)
2. **Right-of-Way:**

Section	Clearing Limit	Right-of-Way
Shoulder	1/2 ft.	1/2 ft.
Common	Shoulder 55% 3/4 ft.	1/2 ft.
	Shoulder 45% 3/4 ft.	1/2 ft.
3. **Clearing Limits:**

Section	Clearing Limit	Right-of-Way
Shoulder	1/2 ft.	1/2 ft.
Common	Shoulder 55% 3/4 ft.	1/2 ft.
	Shoulder 45% 3/4 ft.	1/2 ft.
4. **Clearing Limits:**

Section	Clearing Limit	Right-of-Way
Shoulder	1/2 ft.	1/2 ft.
Common	Shoulder 55% 3/4 ft.	1/2 ft.
	Shoulder 45% 3/4 ft.	1/2 ft.
5. **Clearing Limits:**

Section	Clearing Limit	Right-of-Way
Shoulder	1/2 ft.	1/2 ft.
Common	Shoulder 55% 3/4 ft.	1/2 ft.
	Shoulder 45% 3/4 ft.	1/2 ft.
6. **Clearing Limits:**

Section	Clearing Limit	Right-of-Way
Shoulder	1/2 ft.	1/2 ft.
Common	Shoulder 55% 3/4 ft.	1/2 ft.
	Shoulder 45% 3/4 ft.	1/2 ft.

150: ROAD PLAN AND DETAIL SHEET

Page 10 of 64

Remarks:

PLAN

4. Turnouts
Width - 10 ft. in addition to subgrade width
as shown on the plans.
Located approximately as shown on the plans.
Intervals and not more than 750 ft. apart.

* Clearing Limits as posted on ground

ORN04-TS-2019-0401
Lookout Below Timber Sale
Exhibit C

U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE - OREGON
150: ROAD PLAN AND DETAIL SHEET

ORM04-TS-2019.0401
Lookout Below Timber Sale
Exhibit C
Page 12 of 64

Road Number	Start Station or Mile post	End Station or Mile post	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT	SURFACING (CY)										Remarks		
						Subgrade	Ditch		Max. Favorable	Min. Adverse	Min. Width	Comp. Depth	Surface Type (#1)	Grading Size (#2)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (#3)		Grading Size (#4)	Number of Lifts
4-5-4.0	0.000	0.284	0.284	4		14'	0						ABC	A				ASC	C		Renovate. Place 50 CY 1-1/2"-0" Spot/Cap Rock as marked and needed. Install 1 inlet marker.
	0.284	0.316	0.032	6		14'	2						ABC & PRR	A		12'	4"	ASC	C	1	Renovate. Spread a 4" lift 1-1/2"-0" Crushed Rock (approx. 36 CY). Spread 20 CY 3"-0" Crushed Spot/Base Rock. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill Rock. Construct a 3' diameter catch basin at the inlet of the new pipe @ M.P. 0.288. Construct a 2' x 2' ditchline lined with 30 CY Pit-Run (MP 0.288 - 0.349). Re-establish ditchline and haul material to WA (@ 0.726) as directed. Install 1 sediment catch basin with bale as marked. Install 1 culvert. Install 1 downspout as marked. Align downspout to discharge into existing pond, left of existing structure. Install 1 inlet marker.
	0.316	0.450	0.134	6		14'	2			12'	8"	ABC	A	2	12'	4"	ASC	C	1	Renovate. Spread an 8" lift 3"-0" Crushed Base Rock (approx. 256 CY) capped with a 4" lift 1-1/2"-0" Crushed Rock (approx. 172 CY). Place 30 CY 1-1/2"-0" Crushed Bedding/Backfill Rock as marked. Backfill the existing pipe trench (@ MP 0.349) with 15 CY 3"-0" Spot/Base Rock as marked. Install 1 sediment catch basin with bale as marked. Remove existing waterbars as directed. Re-establish ditchline and haul material to WA (@ MP 0.726) as directed. Caution is required to not destroy existing PVC waterline (may be cut but not pulled). Replace 3 culverts. Install 30' downspout with 30 degree angle elbow at CPP @ MP 0.349 (directing outlet discharge in trench towards stream as directed). Install 3 inlet markers.	
	0.450	0.512	0.062	6		14'	2										ASC	C		Renovate. Spread 10 CY 1-1/2"-0" Crushed Spot/Cap Rock as needed. Re-establish ditchline and haul material to WA (@ MP 0.726) as directed.	
	0.512	0.603	0.091	6		14'	2	12%	12%	12'	8"	ABC	A	2	12'	4"	ASC	C	1	Improvement. Road is slope staked, refer to design notes. Spread an 8" lift 3"-0" Crushed Base Rock (approx. 221 CY) capped with a 4" lift 1-1/2"-0" Crushed Rock (approx. 111 CY). Place 40 CY 1-1/2"-0" Crushed Culvert Bedding/Backfill. Haul all excess material to WA (@ MP 0.726) as directed. Replace 2 culverts. Install 10' downspout. Install 2 inlet markers.	
	0.603	0.879	0.276	6		14'	2						ABC	A				ASC	C		Renovate. Construct turnouts and waste area as marked. Spread 35 CY 3"-0" Crushed Spot/Base Rock as marked. Spread 40 CY 1-1/2"-0" Crushed Spot/Cap Rock as marked and needed. Place 35 CY 1-1/2"-0" Crushed Culvert Bedding/Backfill. Re-establish ditchline and haul material to WA (@ MP 0.726) as directed. Replace 2 culverts. Install 2 inlet markers. Clean catch basins and outlets as needed and marked.
3-5-20.0	0.000	1.126	1.126	6		14'	2						ABC	A		12'	4"	ASC	C	1	Renovate. Construct loaded truck turnaround (@MP 0.701), turnouts, and waste areas as marked and directed. Spread a 4" lift 1-1/2"-0" Crushed Rock (approx. 1,383 CY). Spread 310 CY 3"-0" Crushed Spot/Base Rock as marked and needed. Spread 120 CY 1-1/2"-0" Crushed Spot/Cap Rock as marked and needed. Place 170 CY 1-1/2"-0" Crushed Bedding/Backfill Rock. Place 10 CY Class 3 RipRap at outlet as dissipater @ MP 0.903 & 0.956 as marked. Place 60 CY Class 3 RipRap at outlet as fill armor/stabilization wall @ MP 0.561 & 0.784 - 0.791 as marked. Construct a 2' x 2' ditchline lined with 30 CY Pit-Run (MP 0.105 - 0.193). Repair road edge/existing catch basins w/ 20 CY Pit-Run as marked and directed. Place 10 CY Class 3 RipRap at outlet as Dissipater as marked. Place 60 CY Class 3 RipRap at outlet as F&I Armor/Stabilization Wall as marked. Construct ditchouts as marked and needed. Remove piled waste (approx. 20 CY) @ MP 0.987 and haul to waste area (@ MP 0.701) as directed. Install 4 culverts. Replace 5 culverts. Lengthen 2 existing culverts (as marked). Install 1 downspout. Repair 1 culvert downspout. Install 19 inlet markers.

Cal slope

2-4'

1.5:1

Type 1 Typical Gradiation Section In-sloped

Cal slope

2-4'

1.5:1

Type 2 Typical Gradiation Section In-sloped

Cal slope

2-4'

1.5:1

Type 3 Typical Gradiation Section On Roadbed

Cal slope

2-4'

1.5:1

Type 4 Typical Gradiation Section Out-sloped

Distances 1' above hole with depth to be measured to obtain required drainage

1'

1.5:1

Type 5 Typical Gradiation Section at Ditch

Distances 1' above hole with depth to be measured to obtain required drainage

1'

1.5:1

Type 6 Typical Gradiation Section

18 ft

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

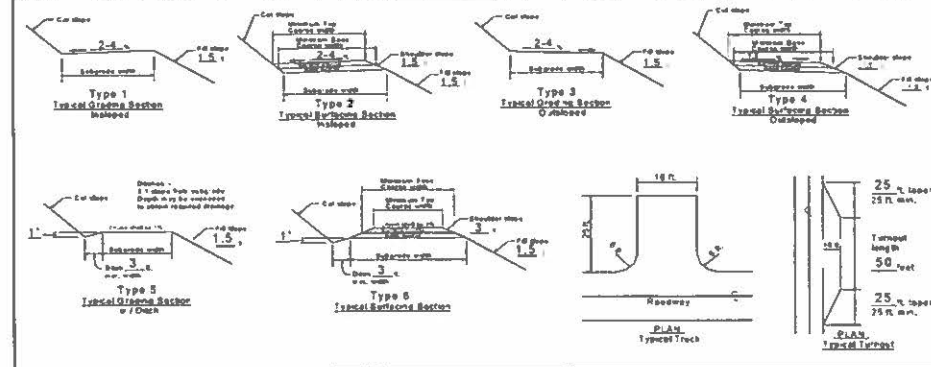
25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25' 2" top of 25' min.

25'



- NOTES**
1. **EXCAVATION METHOD**
Apply to each shoulder 1 ft. for 1/2 ft. of 1-1/2" and 2 ft. for 1/2 ft. of 1-1/2" when the inside shoulder of curves as follows (See Road Plan Map, Exhibit C)
 2. **ROADWAY**
Material: Crushed rock
Solid rock and shale: 1/2 1
Compacted: 1/2 1
Slopes under 35%: 1/2 1
Slopes over 35%: 3/4 1
 3. **ROADWAY**
Full bench cut/shoulder is required on side slopes exceeding 35%.
 4. **ROADWAY**
Full bench cut/shoulder is required on side slopes exceeding 35%.
 5. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
 6. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
 7. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
 8. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
 9. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
 10. **ROADWAY**
PRR - Pit-run rock
GR - Gravel rock
BRH - Screened rock
JH - Joint rock
ABC - Appl. base course
ASC - Appl. surface course
WC - Wind chips
- * Clearing Limits as posted on ground

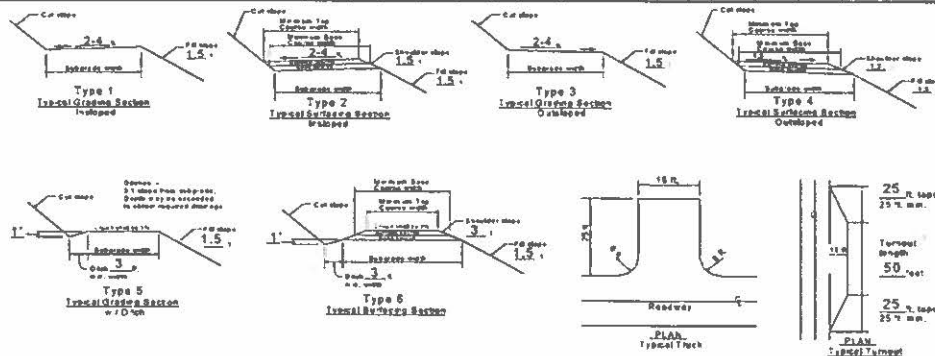
U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE - OREGON

150: ROAD PLAN AND DETAIL SHEET

ORNO4-TS-2019-0401
Lookout Below Timber Sale
Exhibit C

Page 13 of 64

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING ("S)						Remarks				
						Subgrade	Ditch	Max. Favorable	Max. Adverse	Min. Width	BASE COURSE			SURFACE COURSE						
											Comp. Depth	Surface Type ("3)	Grading Size ("3)	Number of Lifts	Min. Width		Comp. Depth	Surface Type ("3)	Grading Size ("3)	Number of Lifts
3-5-33.0	0.000	1.004	1.004	6	14'	2						ABC	A				ASC	C		Renovate. Spread 50 CY 3'-0" Crushed Spot/Base Rock as needed. Spread 150 CY 1-1/2'-0" Crushed Spot/Cap Rock as marked and needed. Re-establish ditchline and haul material to designated WA as directed. Install 4 culvert inlet markers.
	1.004	1.425	0.421	6	14'	2						ABC	A		12'	2"	ASC	C	1	Renovate. Spread a 2" lift 1-1/2'-0" Crushed Rock (approx. 256 CY). Spread 50 CY 3'-0" Crushed Spot/Base Rock as needed. Spread 50 CY 1-1/2'-0" Crushed Spot/Cap Rock as needed. Re-establish ditchline and place material on adjacent/stable areas as directed. Install 1 culvert inlet marker.
	1.425	4.529	3.104	6	14'	2						ABC	A		12'	4"	ASC	C	1	Renovate. Spread a 4" lift 1-1/2'-0" of Crushed Rock (approx. 3,778 CY). Spread 400 CY 3'-0" Crushed Spot/Base Rock as marked and needed. Spread 100 CY 1-1/2'-0" Crushed Spot/Cap Rock as marked and needed. Place 150 CY 1-1/2'-0" Crushed Bedding/Backfill Rock. Place 20 CY Class 3 Rip-Rap at outlet as dissipater @ MP 3.148, 3.246, 3.408, & 3.507 as marked. Place 15 CY of Class 3 Rip-Rap at outlet as stabilization wall/dissipater @ MP 4.021 as marked. Place 5 CY Class 3 Rip-Rap at inlet as fill armor @ MP 4.021 as marked. Place 5 CY Rip-Rap (from 3-6-25.1 Sta. 0+70) as blockage of rogue trail above culvert inlet as marked. Re-establish ditchline and haul material to designated WA as directed. Install 6 sediment catch basins with bale as marked. Replace 8 culverts. Install 2 culverts. Install 21 inlet markers. Re-install 1 Existing Inlet Marker. Install 2 "T" posts on culvert flume @ MP 3.814 as marked.
3-6-25.0	0.000	1.765	1.765	6	14	2						ABC	A				ASC	C		Renovation. Spread 20 CY 3'-0" Crushed Spot/Base Rock as marked. Spread 100 CY 1-1/2'-0" Crushed Spot/Cap Rock as marked and needed. Place 20 CY 1-1/2'-0" Culvert Bedding/Backfill Rock. Place 10 CY Pit-Run as outlet fill armor @ MP 0.724 as marked. Re-establish ditchline and haul material to designated WA as directed. Replace 1 culvert. Install 1 culvert inlet marker.
Weyco Pit-East Road	0.000	0.315	0.315	6	14	2											ASC	C		Renovation. Spread 30 CY 1-1/2'-0" Crushed Spot/Cap Rock as needed. Re-establish ditchline and haul waste material to designated WA as directed.



- *NOTES**
- 1. Extra Subgrade Width**
Add to each shoulder 1 ft. for 1:1 and 2 ft. for 1:2. Width the inside shoulder of curves as follows:
(See Road Plan Map, E-100-C)
 - 2. Drainage**
a. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
b. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
c. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
d. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
e. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
f. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
g. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
h. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
i. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
j. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
k. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
l. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
m. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
n. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
o. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
p. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
q. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
r. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
s. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
t. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
u. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
v. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
w. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
x. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
y. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
z. **Gravel**
Solid rock 1:1
Soft rock and shale 1:2
Common 1:1
Slopes over 55% 1:1
Slopes over 55% 1:2
- * Clearing Limits as posted on ground**

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit C

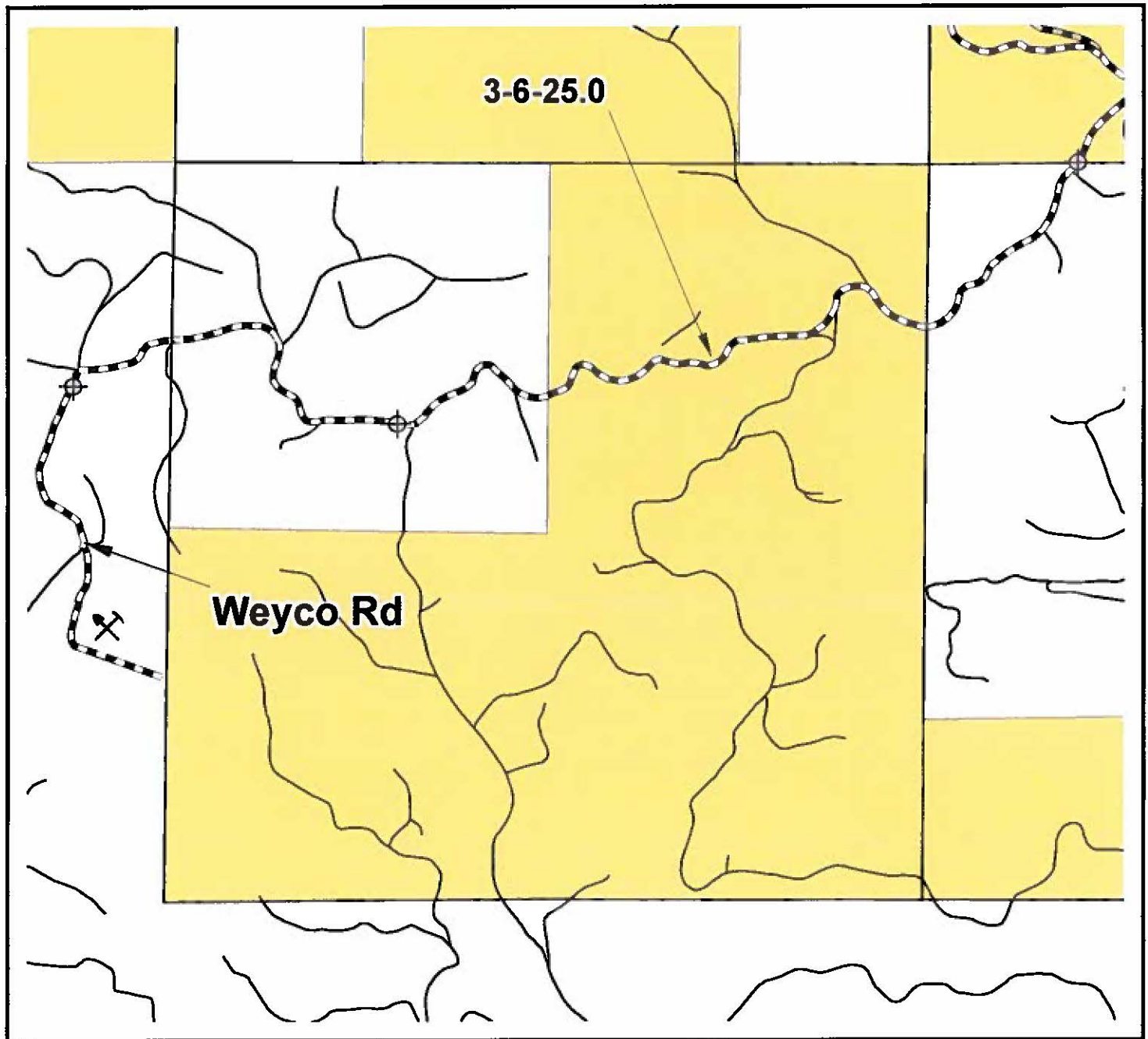
Page 44 of 64

Road Plan Map

T. 03S. R. 6W. Section 25

4/1/2019

T. 03S. R. 6W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



-  Rock Pit and Stock Pile Site
-  Gates
-  Rocked road to be renovated
-  Other Roads
-  Rocked road to be renovated, Stabilize after use
-  Bureau of Land Management

1 inch equals 1,000 feet

0 650 1,300 2,600 Feet

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



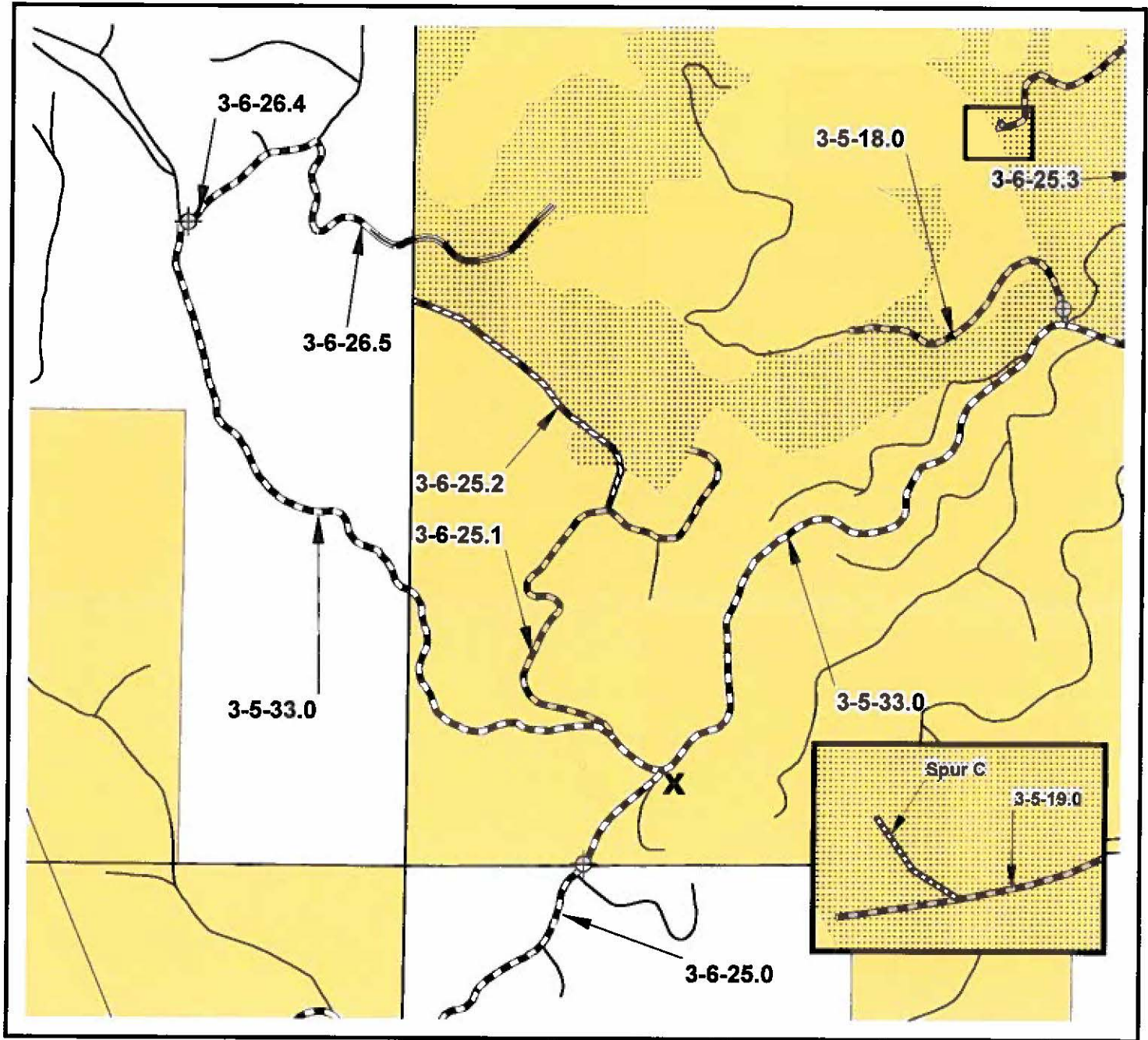
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

Lookout Below Timber Sale
Contract No. ORN04-TS-2019 0401
Exhibit C

Page 45 of 64

4/11/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON




X Stock Pile Site

 Gates

 Rocked road to be constructed, Decommission after use

 Other Roads

 Natural surfaced road to be constructed, Decommission after use

 Lookout Below Project Area

 Rocked road to be constructed, stabilize after use

 Bureau of Land Management

 Rocked road to be renovated

 Rocked road to be renovated, Stabilize after use

1 inch equals 833 feet

0 550 1,100 2,200 Feet

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

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

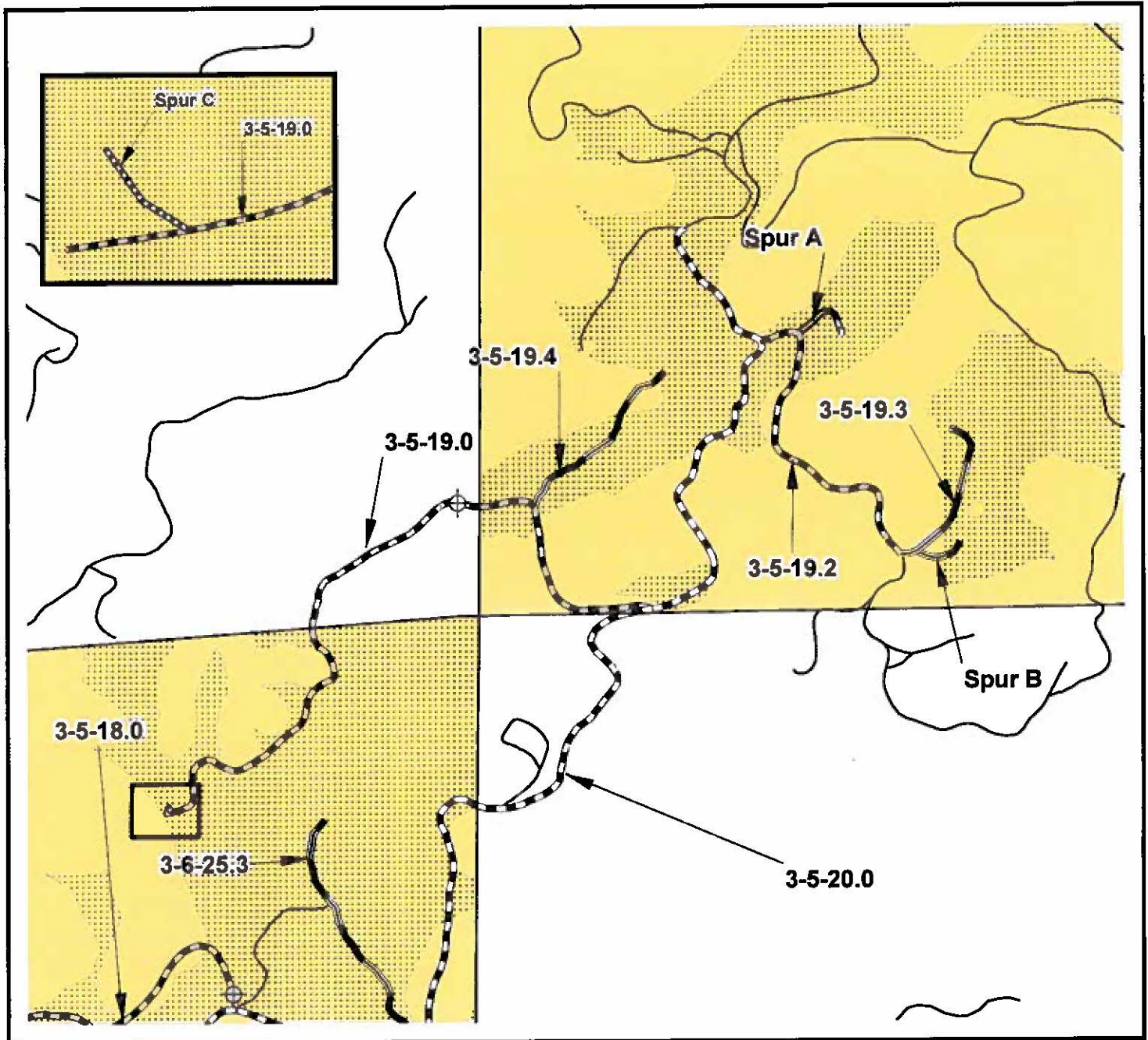
Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit C

Page 46 of 64

T. 03S. R. 6W. Section 25

4/11/2019

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



- Rocked surfaced road to be improved, Decommission after use
- Rocked road to be constructed, Decommission after use
- Natural surfaced road to be constructed, Decommission after use
- Rocked road to be constructed, stabilize after use
- Rocked road to be renovated
- Rocked road to be renovated, Stabilize after use

- Gates
- Other Roads
- Lookout Below Project Area
- Bureau of Land Management

1 inch equals 833 feet

0 550 1,100 2,200 Feet

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

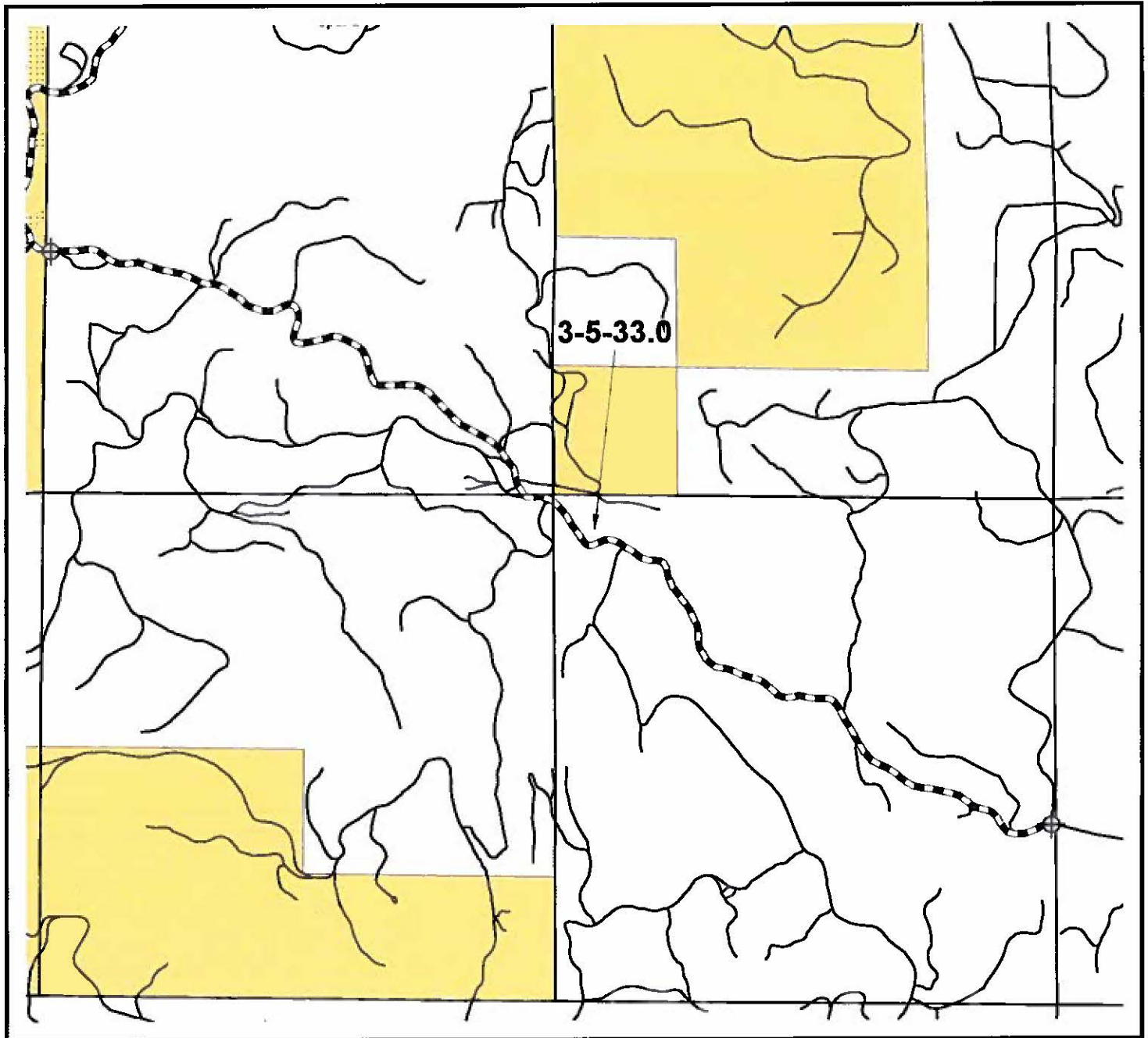
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map






Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit C

Page 47 of 64

4/1/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



-  Rocked road to be renovated
-  Gates
-  Other Roads
-  Lookout Below Project Area
-  Bureau of Land Management

1 inch equals 1,500 feet
0 1,000 2,000 4,000 Feet



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

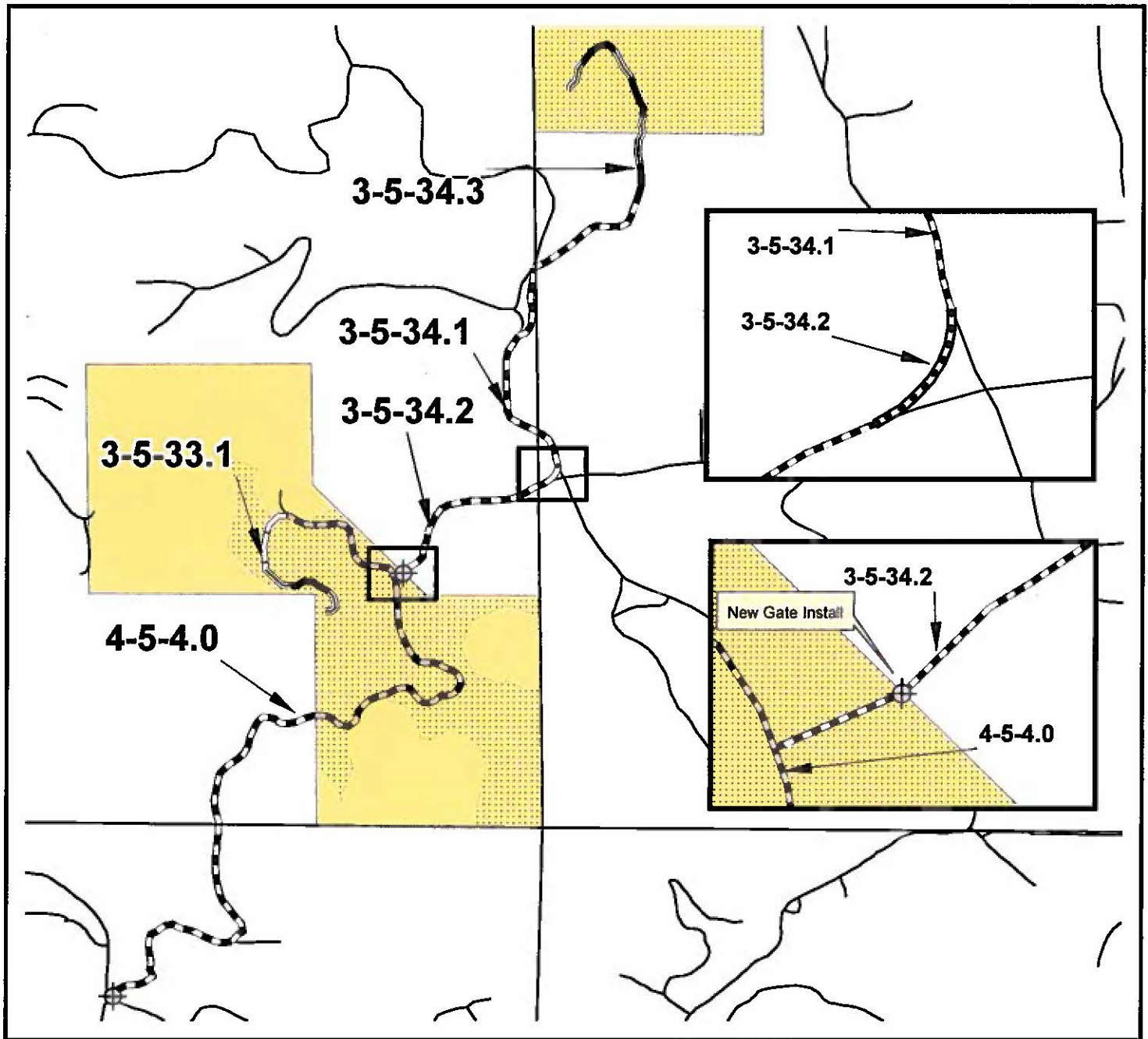
Lookout Below Timber Sale •
Contract No. ORN04-TS-2019.0401
Exhibit C

Page 48 of 64

4/1/2019

T. 03S. R. 6W. Section 25

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



- Natural surfaced road to be improved, Decommission after use
- Natural surfaced road to be constructed, Decommission after use
- Rocked road to be constructed
- Rocked road to be renovated
- Rocked road to be renovated, Stabilize after use



Gates

Other Roads



Lookout Below Project Area



Bureau of Land Management

1 inch equals 833 feet

0 550 1,100 2,200 Feet

ORND-15-2019 0401
Lookout Below Timber Sale
Exhibit C
Page 54 of 64

CULVERT LOCATIONS DESIGNED *2								DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT			ROCK RIP RAP (GRADING)			REMARKS *6
Road #	Sta./M.P.	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Structure inside pipe		
3-6-25.2	0+25	24"	-	40'	-	-	-	-	-	-	-	-	-	-	-	-	Install New Culvert as marked in field. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Surface over pipe with lifts of base and cap rock over whole road. Install metal inlet marker.	
3-6-25.3	0+63	18"	-	50'	-	-	-	-	-	-	-	-	-	-	-	-	Install New Culvert as marked (in existing ditchline of 3-5-33.0). Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Base Rock over pipe as surfacing capped with 15 CY 1-1/2"-0" Crushed Rock. No metal inlet marker needed.	
3-6-26.4	3+80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.	
3-6-26.5 (Reno)	0.065	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.	
3-6-26.5(New)	0+75	18"	-	40'	-	-	-	-	-	-	-	-	-	-	-	-	Install New Culvert as marked in field. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Crushed Base Rock over pipe as surfacing. Construct a lead-off ditch at outlet. Install metal inlet marker.	
	7+45	18"	-	36'	-	-	-	-	-	-	-	-	-	-	-	-	Install New Culvert as marked in field. Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 15 CY 3"-0" Crushed Base Rock over pipe as surfacing. Install metal inlet marker.	
4-5-4.0	0.102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CPP.	
	0.288	18"	-	40'	-	-	18"	1	10'	-	-	-	-	-	-	-	Install New Culvert and Downspout as marked in field. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Base Rock over pipe as surfacing capped with lift of rock over whole road. Align downspout to discharge into existing pond as marked. Construct a 3' diameter catch basin @ inlet. Install metal inlet marker.	
	0.349	24"	-	30'	-	-	24"	1	30'	1 (30 degree)	-	-	-	-	-	-	Replace existing culvert and downspout with alignment as marked in field. Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill. Backfill existing pipe trench with 15 CY 3"-0" Crushed Base Rock. Surface over pipe with lifts of base and cap rock over whole road. Install downspout with elbow and direct discharge into channel. Install metal inlet marker.	
	0.377	18"	-	30'	-	-	18"	1	10'	-	-	-	-	-	-	-	Replace existing culvert and downspout. Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill. Surface over pipe with lifts of base and cap rock over whole road. Install metal inlet marker.	
	0.397	36"	-	40'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert (stream crossing). Place 25 CY 1-1/2"-0" Crushed Bedding/Backfill. Surface over pipe with lifts of base and cap rock over whole road. Install metal inlet marker.	
	0.512	18"	-	40'	-	-	18"	1	10'	-	-	-	-	-	-	-	Replace existing culvert and downspout. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Surface over pipe with lifts of base and cap rock over whole road. Install metal inlet marker.	
	0.603	18"	-	40'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Surface over pipe with lifts of base and cap rock over whole road. Install metal inlet marker.	
	0.794	24"	-	44'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert. Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Base Rock over pipe as surfacing capped with 15 CY 1-1/2"-0" Crushed Rock. Install metal inlet marker.	
	0.879	18"	-	34'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert. Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 15 CY 3"-0" Base Rock over pipe as surfacing capped with 10 CY 1-1/2"-0" Crushed Rock. Install metal inlet marker.	

Gage Chart		
Gage	Dec. Inches	
	Steel	Alum.
10	.138	.135
12	.109	.105
14	.079	.075
16	.064	.060

1. Designed culvert lengths and locations are approximate.

*2. all culverts have 2 2/3" x 1/2"

unless otherwise noted.

*4. Downspout or Standpipe Types

1) Full	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).
2) Half	
3) Flume	

**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 feet. Minimization of banding is required.

*5. 1) Conventional or Fabricated
2) Turner type
3) Slip joint

*6. Include special sections, structures, headwalls, footings & other data.

ORND-15-2019.0401
Lookout Below Timber Sale
Exhibit C

Culvert List

Page 55 of 64

CULVERT LOCATIONS										ROCK			REMARKS *6				
DESIGNED *2						DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT		RIP RAP (GRADING)					
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Structure inside pipe	
																	(a)
3-5-33.0	0.518	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CPP.
	0.587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CPP.
	0.741	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Replace metal inlet marker on existing CPP.
	0.891	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Replace metal inlet marker on existing CPP.
	1.241	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CPP.
	2.184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Re-install existing metal inlet marker on existing CMP.
	2.926	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	3.058	18"	-	30'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert. Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 10 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Install metal inlet marker.
3.148	18"	-	36'	-	-	-	-	-	-	-	-	-	-	5	-	Replace existing culvert (approx. 5ft. fill @ CL). Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 15 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Place 5 CY Class 3 Rip-Rap @ outlet as dissipator. Install metal inlet marker.	
3.246	18"	-	30'	-	-	-	-	-	-	-	-	-	-	5	-	Install New Culvert as marked in the field. Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 10 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Place 5 CY Class 3 Rip-Rap @ outlet as dissipator. Install metal inlet marker.	
3.408	18"	-	30'	-	-	-	-	-	-	-	-	-	-	5	-	Replace existing culvert (approx. 5ft. Fill @ CL). Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 10 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Place 5 CY Class 3 Rip-Rap @ outlet as dissipator. Install metal inlet marker.	
3.452	18"	-	40'	-	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert (approx. 6ft. Fill @ CL). Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Install metal inlet marker.

Gage Chart		
Gage	Dec. Inches	
	Steel	Alum.
10	.138	.135
12	.109	.105
14	.079	.075
16	.064	.060

1. Designed culvert lengths and locations are approximate.

*2. all culverts have 2 2/3" x 1/2"

unless otherwise noted.

*4. Downspout or Standpipe Types

1) Full 2) Half 3) Flume	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).
--------------------------------	---

*5. 1) Conventional or Fabricated
2) Turner type
3) Slip joint

*6. Include special sections, structures, headwalls, footings & other data.

**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.

U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE - OREGON

ORN04-TS-2019.0401
Lookout Below Timber Sale
Exhibit C

Page 56 of 64

Culvert List

CULVERT LOCATIONS											ROCK			REMARKS *5			
DESIGNED *2							DOWNSPOUT(d) or STANDPIPE(s) *4		AS BUILT		RIP RAP (GRADING)						
											(a)		(b)				
Road #	Sta. / M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH		INLET	OUTLET	Structure Inside pipe
3-5-33.0 (cont.)	3.507	18"	-	30'	-	-	-	-	-	-	-	-	-	-	5	-	Replace existing culvert. Place 10 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 10 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Place 5 CY Class 3 Rip-Rap @ outlet as dissipator. Install metal inlet marker.
	3.652	18"	-	56'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert. Place 25 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 25 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Install metal inlet marker.
	3.774	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	3.814	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Clean debris from existing flume. Install two metal "T" posts on existing flume. Install metal inlet marker on existing CMP.
	3.862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	3.980	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.021	36"	-	46'	-	-	-	-	-	-	-	-	-	5	15	-	Replace existing culvert (Stream crossing, approx. 8ft. Fill @ CL). Place 30 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 25 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Place 5 CY Class 3 Rip-Rap @ inlet as fill armor. Place 15 CY Class 3 Rip-Rap @ outlet as stabilization wall/dissipator. Install metal inlet marker.
	4.071	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.099	24"	-	34'	-	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert (stream crossing, approx. 4ft. Fill @ CL). Place 15 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 15 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with lift of rock over whole road. Install metal inlet marker.
	4.150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.

Gage Chart

Dec. Inches

Gage	Steel	Alum.
10	.138	.135
12	.109	.105
14	.079	.075
16	.064	.060

1. Designed culvert lengths and locations are approximate.

*2. all culverts have 2 2/3" x 1/2"

unless otherwise noted.

*4. Downspout or Standpipe Types

1) Full

2) Half

3) Flume

*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).

*5. 1) Conventional or Fabricated

2) Turner type

3) Slip joint

*6. Include special sections, structures, headwalls, footings & other data.

**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.

U.S. DEPT. OF THE INTERIOR
Bureau of Land Management
NORTHWEST OREGON DISTRICT OFFICE - OREGON
Culvert List

ORN04-TS-2019.0401
Lookout Below Timber Sale
Exhibit C
Page 57 of 64

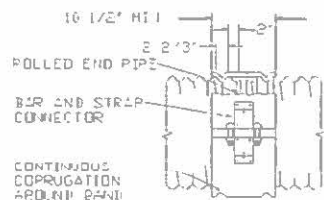
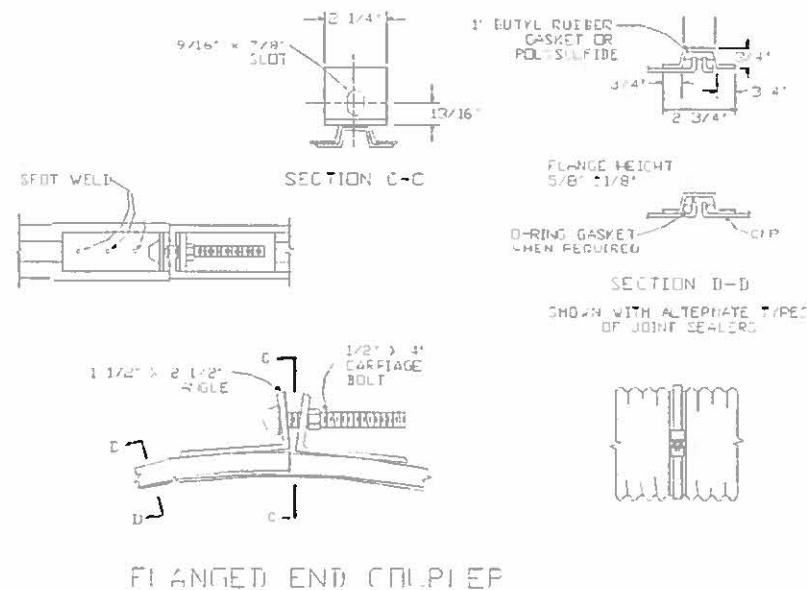
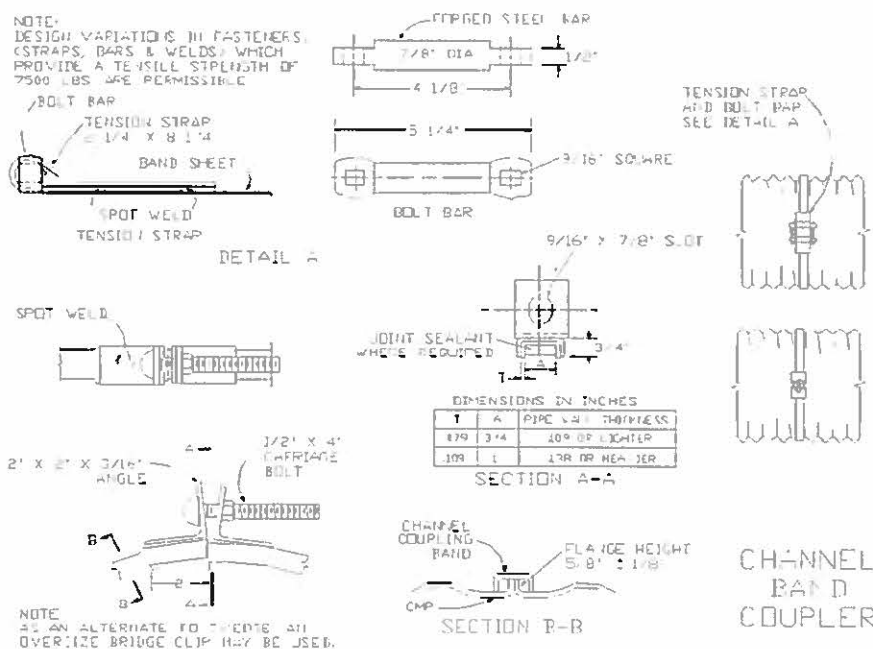
CULVERT LOCATIONS											ROCK			REMARKS *6		
DESIGNED *2						DOWNSPOUT(d) or STANDPIPE(s) *4				AS BUILT		RIP RAP (GRADING)				
										(a)		(b)				
Road #	Sta./ M.P	SIZE	GAGE	LENGTH	CULVERT GRADE	INSTALL TYPE *3	SIZE	TYPE	LENGTH	TYPE OF ELBOW *5	SIZE	GAGE	LENGTH	INLET	OUTLET	Structure Inside pipe
3-5-33.0 (cont.)	4.381	18"	-	50'	-	-	-	-	-	-	-	-	-	-	-	Install New Culvert (in existing ditchline/across road right) . Place 20 CY 1-1/2"-0" Crushed Bedding/Backfill. Spread 20 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with 10 CY 1-1/2"-0" Crushed Rock. No inlet marker needed.
	4.407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
	4.502	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Install metal inlet marker on existing CMP.
3-6-25.0	0.724	24"	-	40'	-	-	-	-	-	-	-	-	-	-	-	Replace existing culvert (approx. 8ft. Fill @ CL). Place 20 CY 1-1/2"-0" Crushed Bedding/ Backfill. Spread 20 CY 3"-0" Crushed Base Rock over pipe as surfacing capped with 15 CY 1-1/2"-0" Crushed Rock. Place 10 CY Pit-Run @ outlet as fill armor. Install metal inlet marker.

Gage Chart			1. Designed culvert lengths and locations are approximate.	*4. Downspout or Standpipe Types	*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint
Gage	Dec. Inches				
	Steel	Alum.	*2. all culverts have 2 2/3" x 1/2" unless otherwise noted.	1) Full 2) Half 3) Flume	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).
10	.138	.135			
12	.109	.105			
14	.079	.075			
16	.064	.060			

**** Corrugated plastic pipe (CPP), Type S (double wall) shall be used for culvert sizes 36" and smaller. All larger culverts shall be aluminized steel. Culverts 20' in length or smaller shall be one piece (no joints). No Culvert piece shall be shorter than 6 foot. Minimization of banding is required.	*6. Include special sections, structures, headwalls, footings & other data.
--	---

U.S. DEPT. OF THE INTERIOR
 Bureau of Land Management
 NORTHWEST OREGON DISTRICT OFFICE - OREGON
CULVERT BAND DETAILS

NOTE:
 DESIGN VARIATIONS IN FASTENERS,
 (STRAPS, BARS & WELDS) WHICH
 PROVIDE A TENSILE STRENGTH OF
 7500 LBS ARE PERMISSIBLE



STANDARD CONSTRUCTION IS 1 PIECE 12" THRU 48" AND 2 PIECE 54" AND ABOVE

THE HUGGER COUPLER BAND OR AN APPROVED EQUIVALENT COUPLER BAND SHALL BE MADE OF THE SAME MATERIAL AND FINISH AS THE PIPES JOINED. THE COUPLER BANDS SHALL HAVE A MINIMUM WIDTH OF 10 1/2 INCHES AND MAY BE TWO NUMERICAL THICKNESSES LIGHTER THAN THE GAGE OR THICKNESS DESIGNATED FOR THE CONDUIT JOINED. THE BAND SHALL BE DESIGNED TO BE DRAWN TOGETHER WITH TWO 1/2" THRU 1 1/2" THROUGH USE OF A BAR AND STRAP SUITABLY WELDED TO THE BAND. THE BAND SHALL ENCLOSURE AND MESH WITH THE SECOND ANNUAL CORRUGATION INWARD FROM THE END OF EACH OF THE CONDUIT SECTIONS JOINED.

GASKETS AND "HUGGER" TYPE BANDS OR AN APPROVED EQUIVALENT COUPLER, SHALL BE INSTALLED INSTALLED ON ALL 30" AND LARGER METAL PIPES.

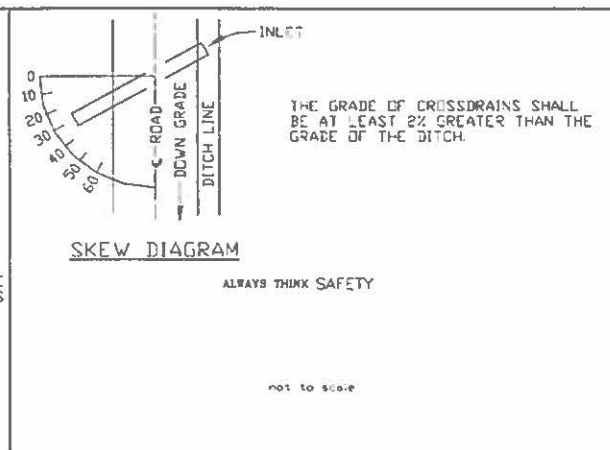
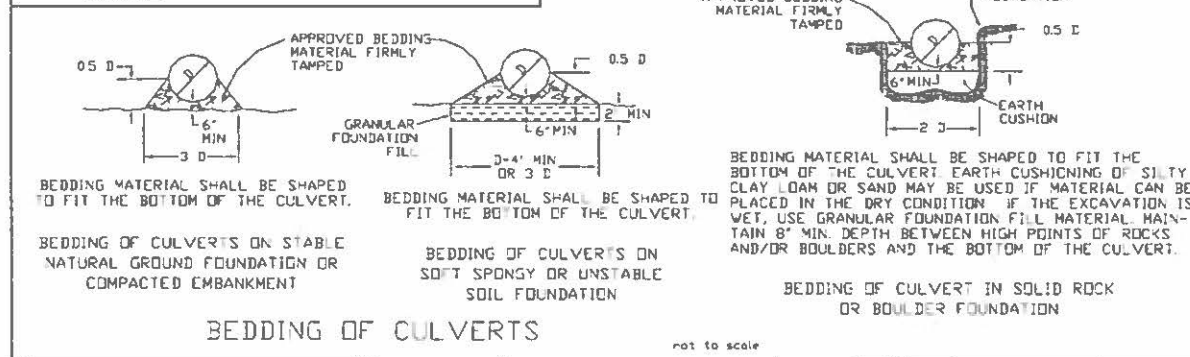
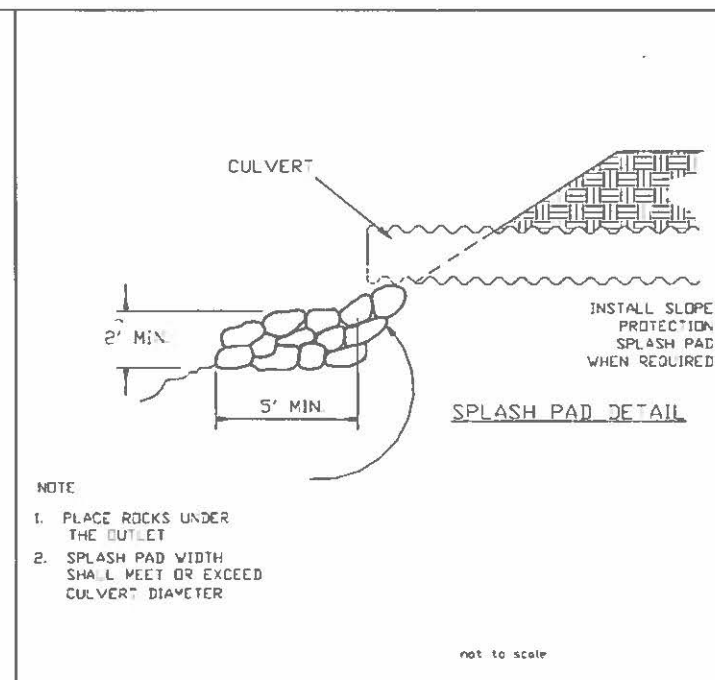
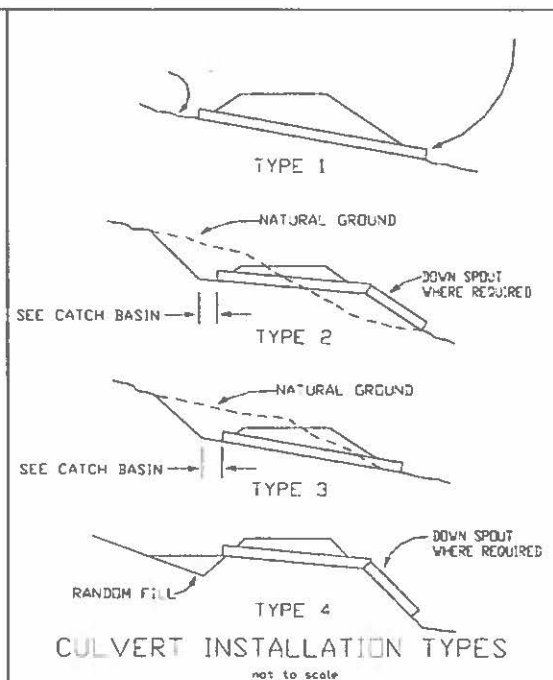
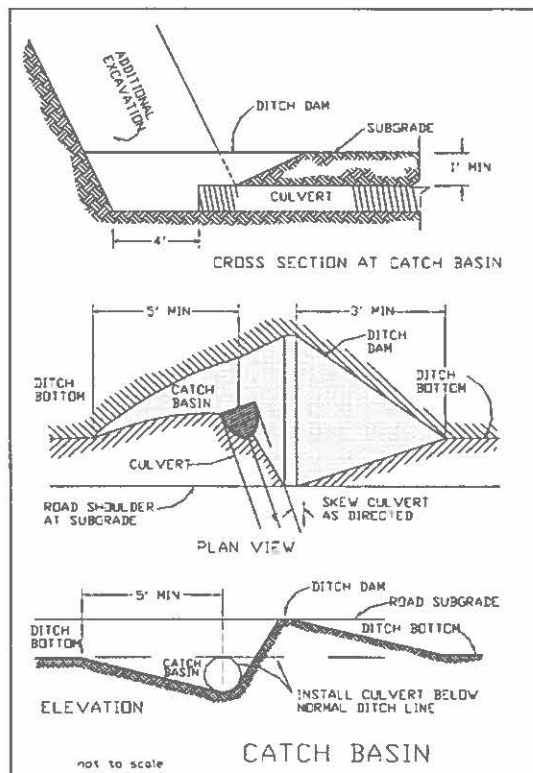
"HUGGER" COUPLER BANDS

STANDARD COUPLER BANDS									
UNITS IN INCHES									
CULVERT SIZE	STD. ANNUAL CORRUGATION	HEIGHT	3" x 1"	6" x 1"	12" x 1"	18" x 1"	24" x 1"	30" x 1"	36" x 1"
INCHES	WIDTH	NO. OF BOLTS	WIDTH	NO. OF BOLTS	WIDTH	NO. OF BOLTS	WIDTH	NO. OF BOLTS	WIDTH
UNIF 18	12	3	12	3	18	3	24	3	30
18 TO 54	12	3	12	3	18	3	24	3	30
OVER 54	24	5	24	5	24	5	24	5	24

DATA IN THIS BLOCK DOES NOT APPLY TO PERFORATED PIPE UNDERPAINT. 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 FOR A NEARLY WATERTIGHT CONNECTION.

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

U.S. DEPT. OF THE INTERIOR
 Bureau of Land Management
 NORTHWEST OREGON DISTRICT OFFICE - OREGON
CULVERT INSTALLATION DETAILS



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

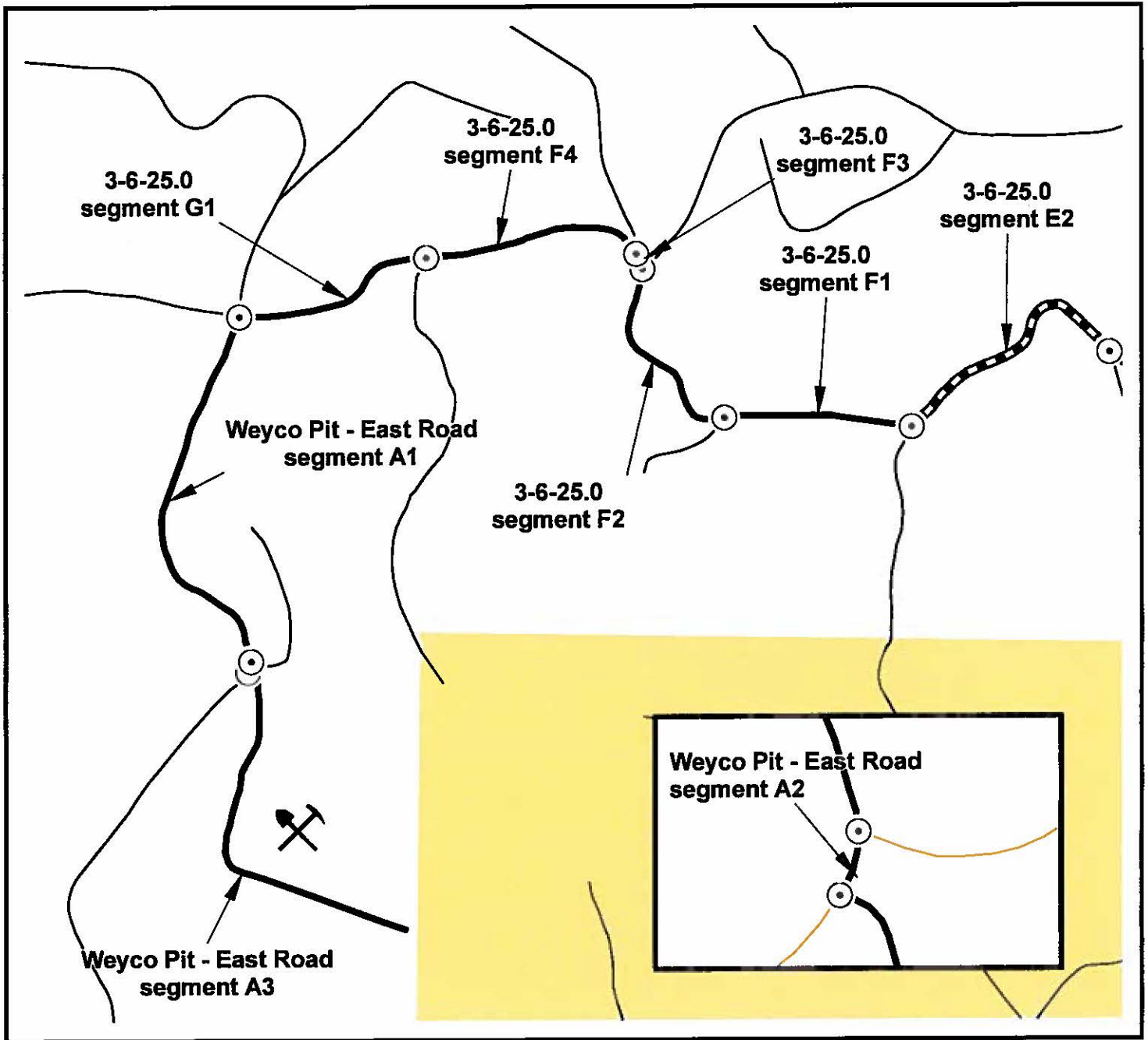
Page 1 of 10

Road Plan Map

T. 03S. R. 6W. Section 25

4/8/2019

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



Road segment breaks

BLM controlled road - Purchaser maintenance

Weyerhaeuser controlled road - Purchaser maintenance



Rock Source and Stock Pile Site

Other Roads



Bureau of Land Management

1 inch equals 500 feet

0 260 520 1,040 Feet



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

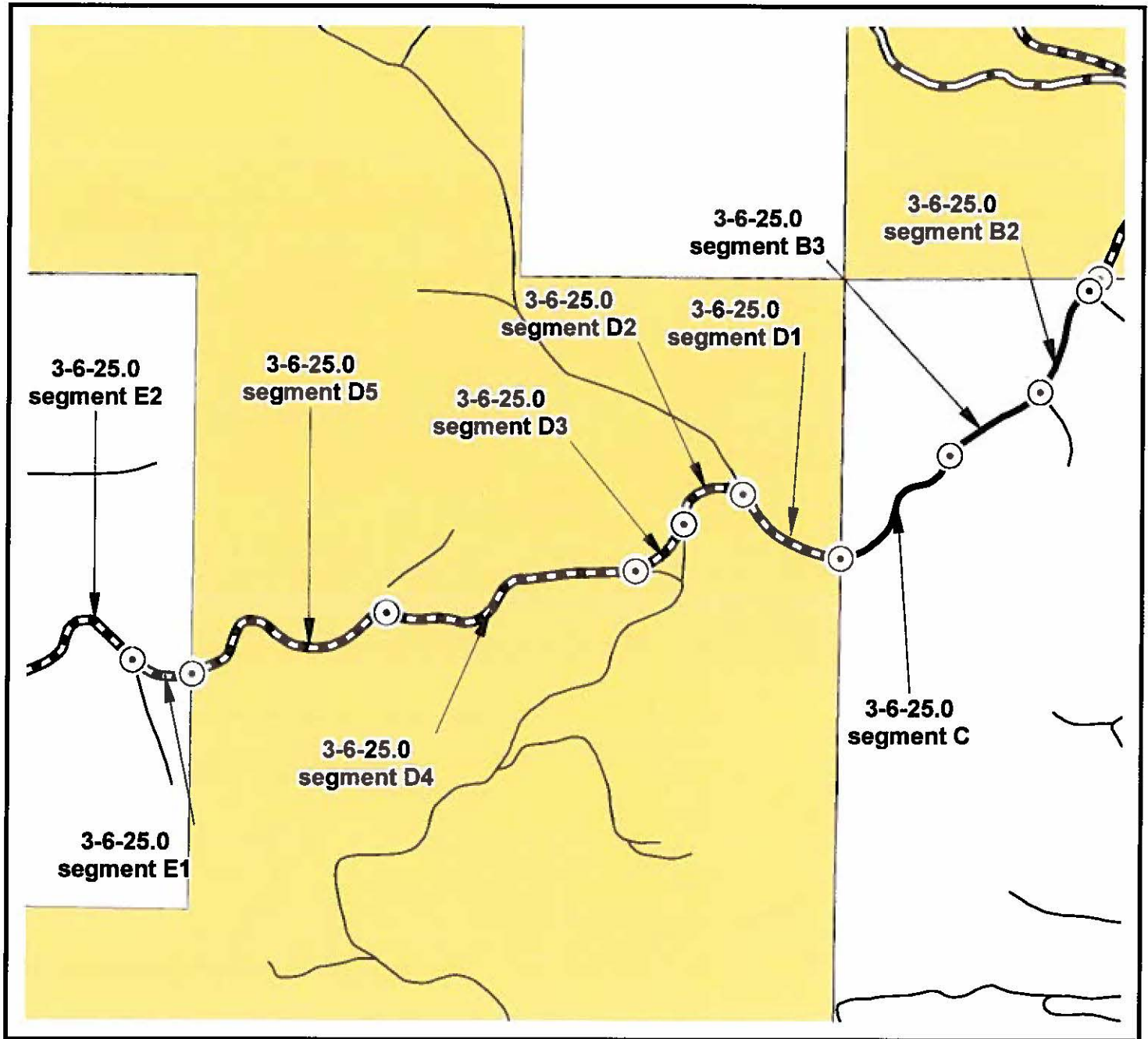
Lookout Below Timber Sale •
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 2 of 10

3/26/2019

T. 03S. R. 6W. Section 25

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



Road segment breaks



BLM controlled road - Purchaser maintenance



County controlled road - Purchaser maintenance



Weyerhaeuser controlled road - Purchaser maintenance



Other Roads



Bureau of Land Management

1 inch equals 583 feet

0 305 610 1,220 Feet

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



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

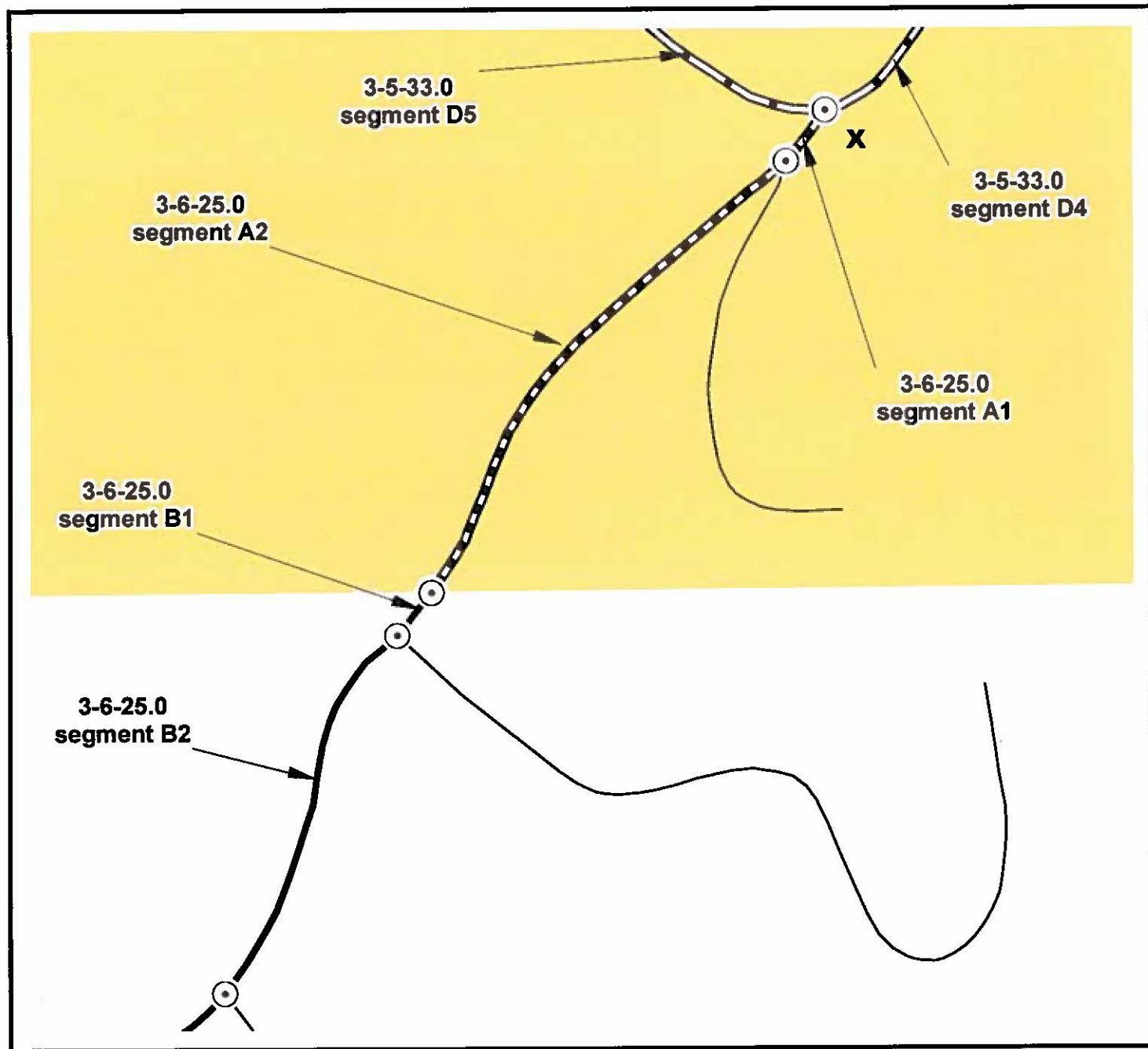
Page 3 of 10

Road Plan Map

T. 03S. R. 6W. Section 25

4/8/2019

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



- Road segment breaks
- BLM controlled road - Purchaser maintenance
- County controlled road- Purchaser maintenance
- Weyerhaeuser controlled road - Purchaser maintenance
- Stock Pile Site
- Other Roads
- Bureau of Land Management

1 inch equals 167 feet

0 90 180 360 Feet

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

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

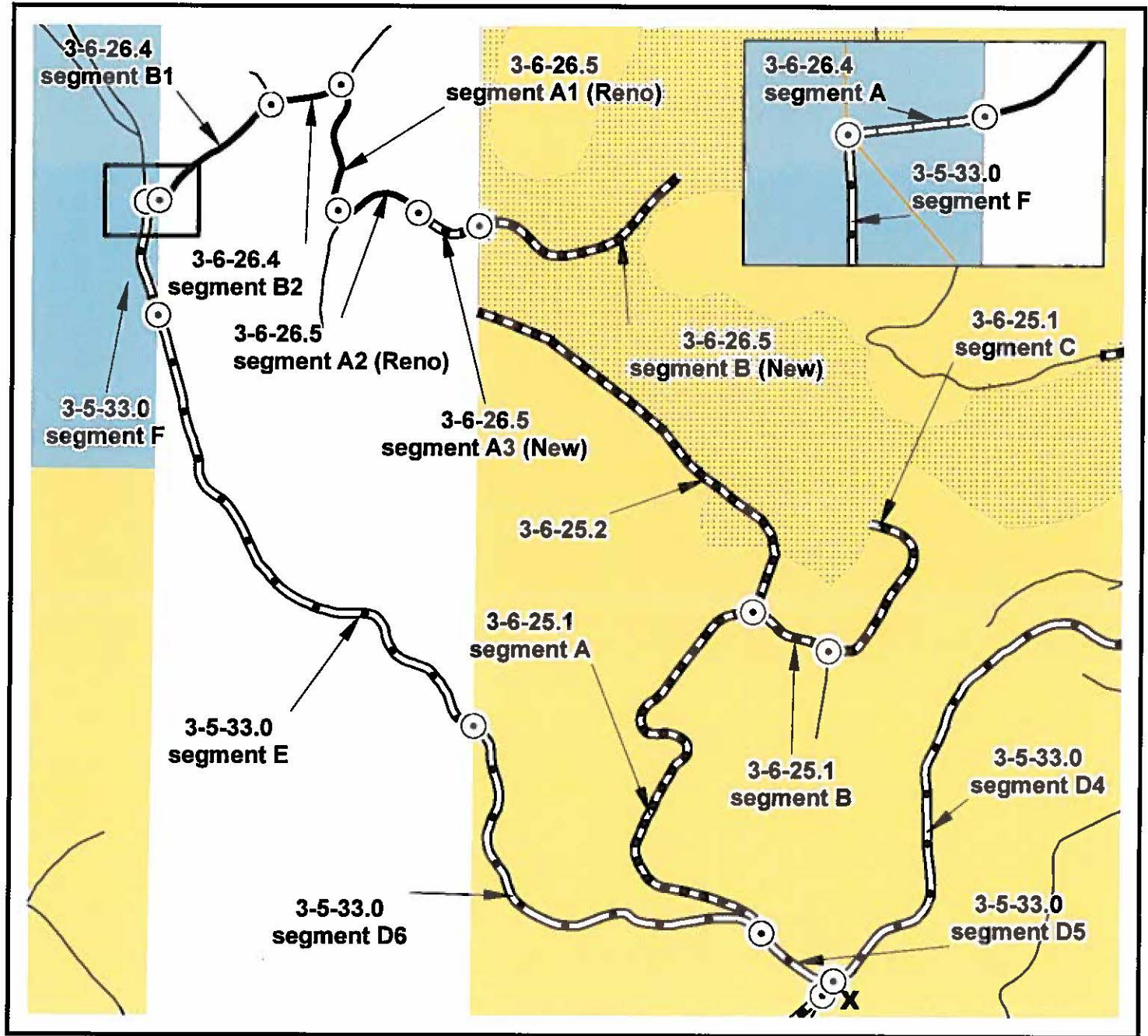
Page 4 of 10



4/8/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON

Road Plan Map



○ Road segment breaks

X Stock Pile Site

BLM controlled road - Purchaser maintenance

Lookout Below Sale Area

County controlled road- Purchaser maintenance

Other Roads

McMinnville Water & Light - Purchaser Maintenance

Bureau of Land Management

Weyerhaeuser controlled road - Purchaser maintenance

1 inch equals 583 feet

0 305 610 1,220 Feet

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



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

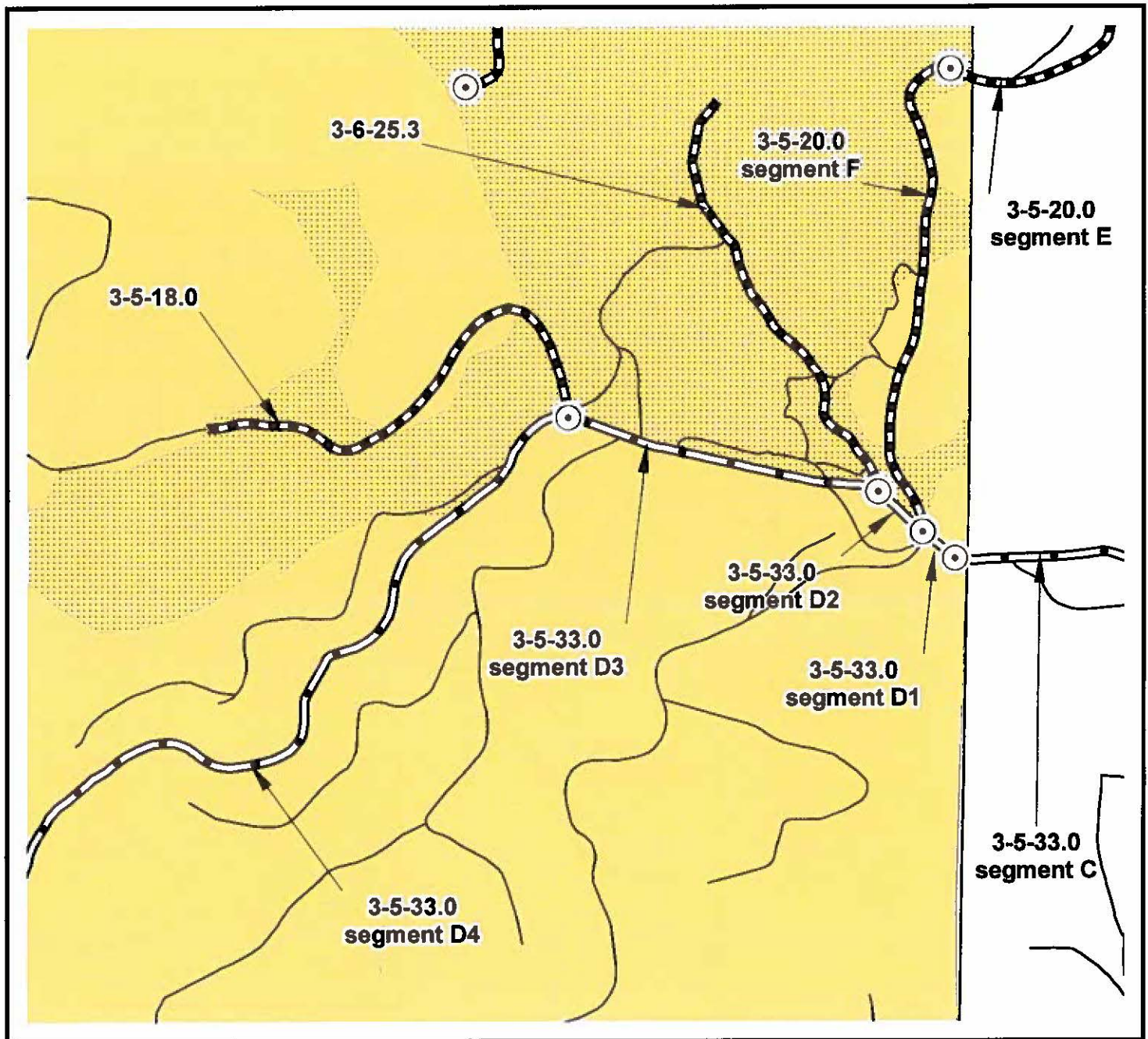
Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 5 of 10

4/8/2019

T. 03S. R. 6W. Section 25

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



- Road segment breaks
- BLM controlled road - Purchaser maintenance
- Other Roads
- County controlled road- Purchaser maintenance
- Lookout Below Sale Area
- Bureau of Land Management

1 inch equals 500 feet

0 262.5 525 1,050 Feet

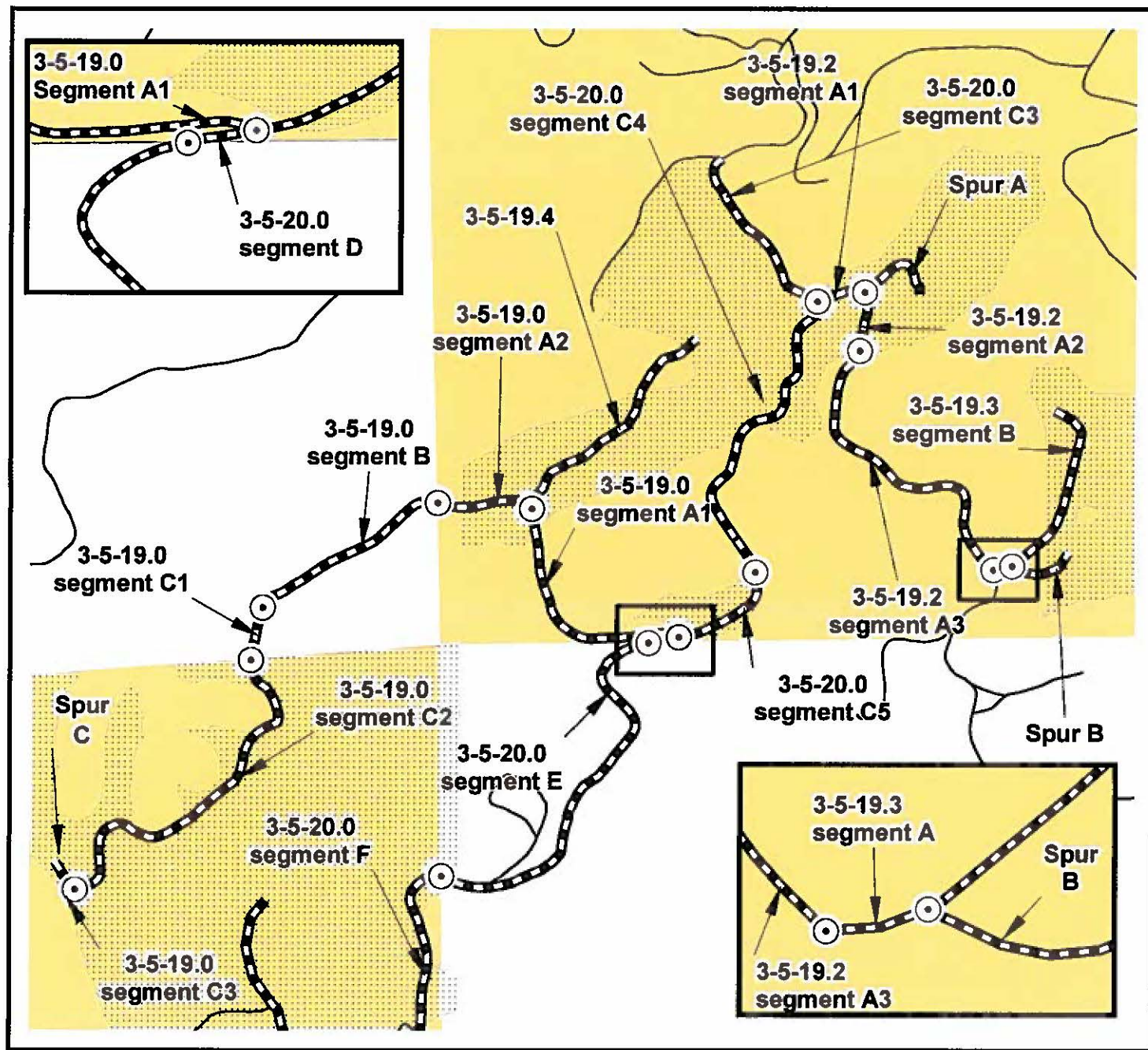
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 6 of 10

4/8/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



- Road segment breaks
- ▬ BLM controlled road - Purchaser maintenance
- ▬ Other Roads
- ▬ Bureau of Land Management
- ▬ Lookout Below Sale Area

1 inch equals 667 feet

0 350 700 1,400 Feet

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

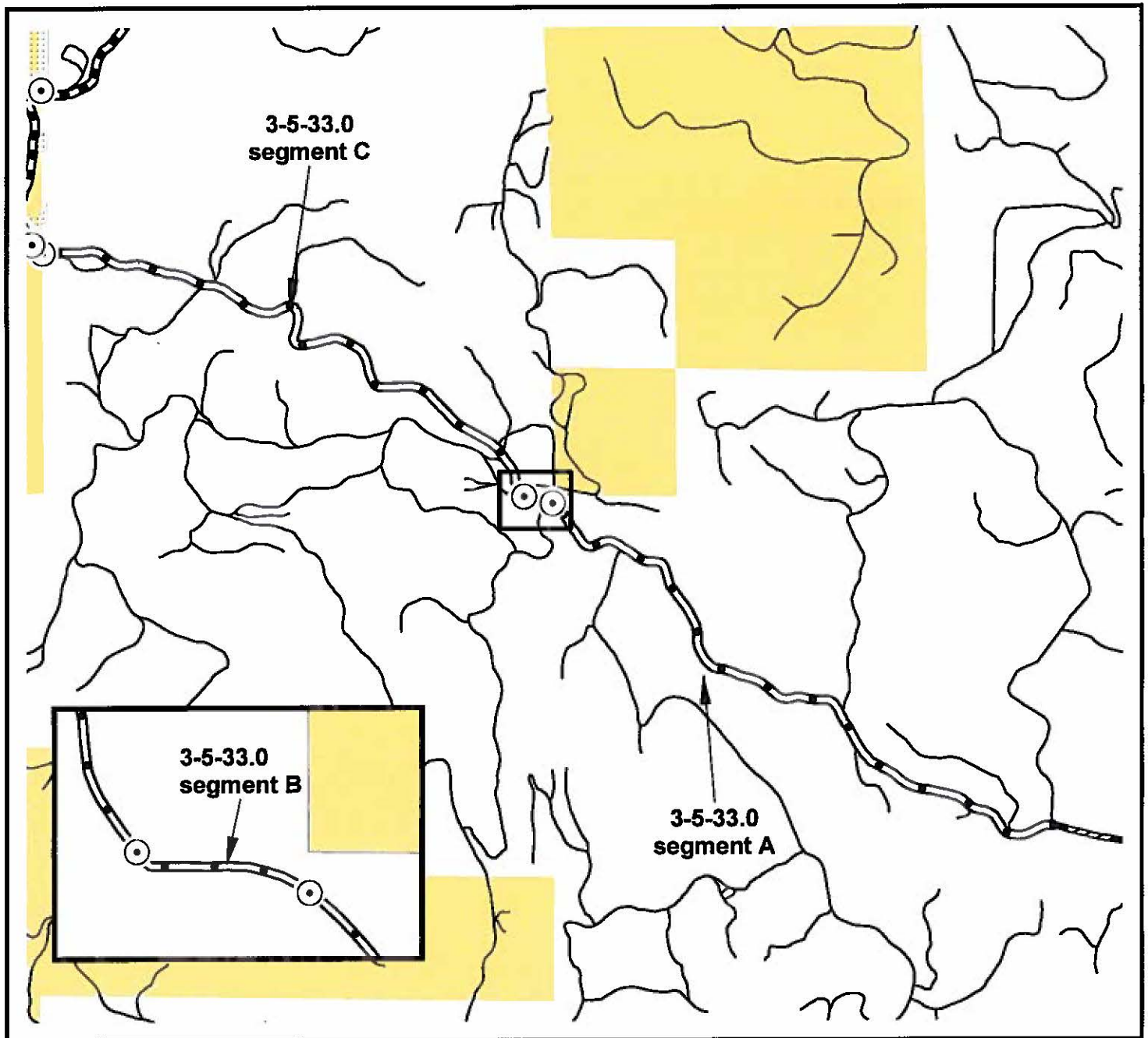
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 7 of 10

4/8/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



○ Road segment breaks

Lookout Below Sale Area

BLM controlled road - Purchaser maintenance

Other Roads

County controlled road - County maintenance

Bureau of Land Management

County controlled road- Purchaser maintenance

1 inch equals 1,500 feet

0 750 1,500 3,000 Feet

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



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

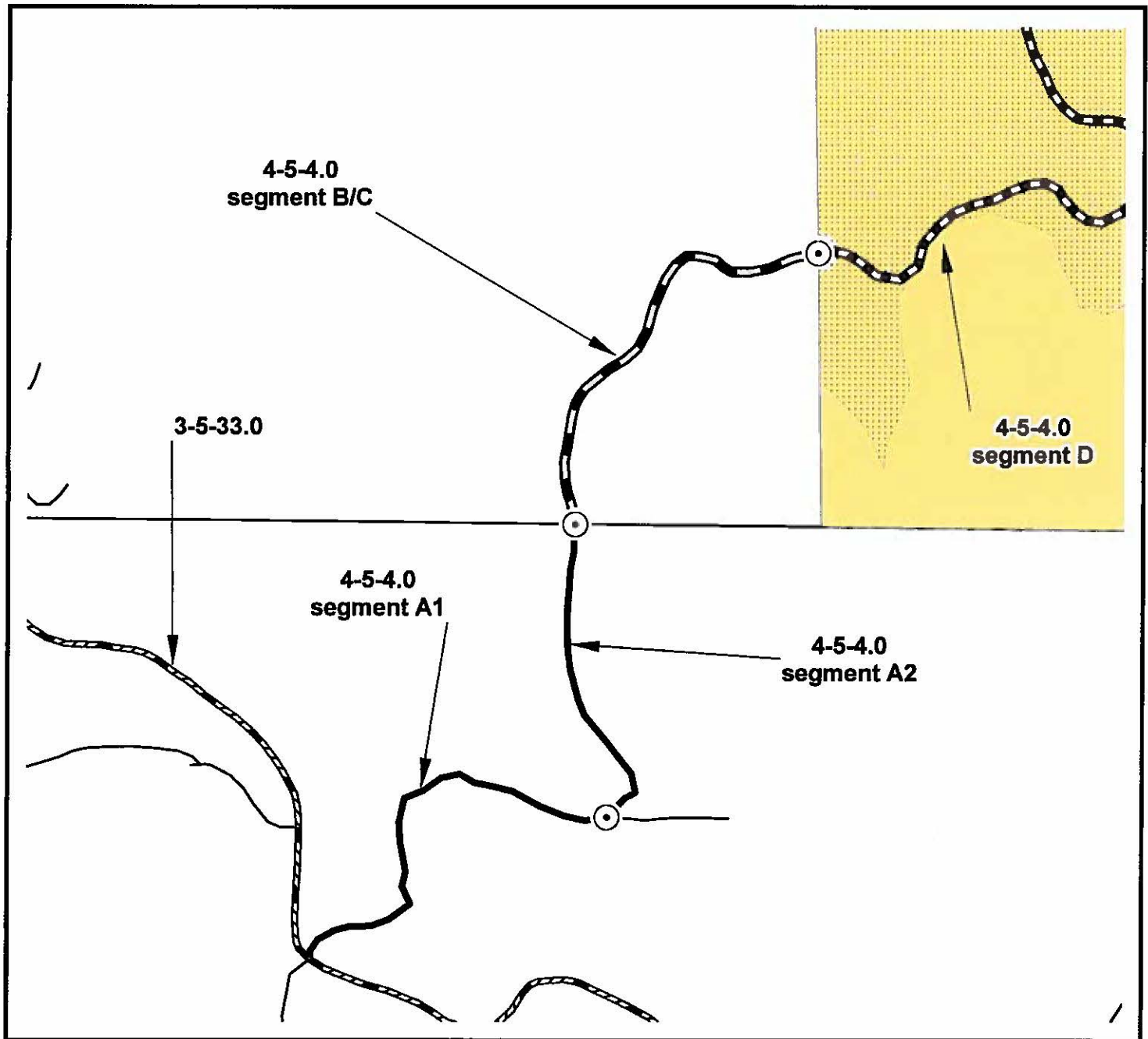
Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 8 of 10

4/8/2019

T. 03S. R. 6W. Section 25

T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



Road segment breaks



Lookout Below Sale Area



BLM controlled road - Purchaser maintenance



County controlled road - County maintenance



Privately controlled road - Purchaser maintenance



Weyerhaeuser controlled road - Purchaser maintenance



Bureau of Land Management

1 inch equals 333 feet

0 180 360 720 Feet



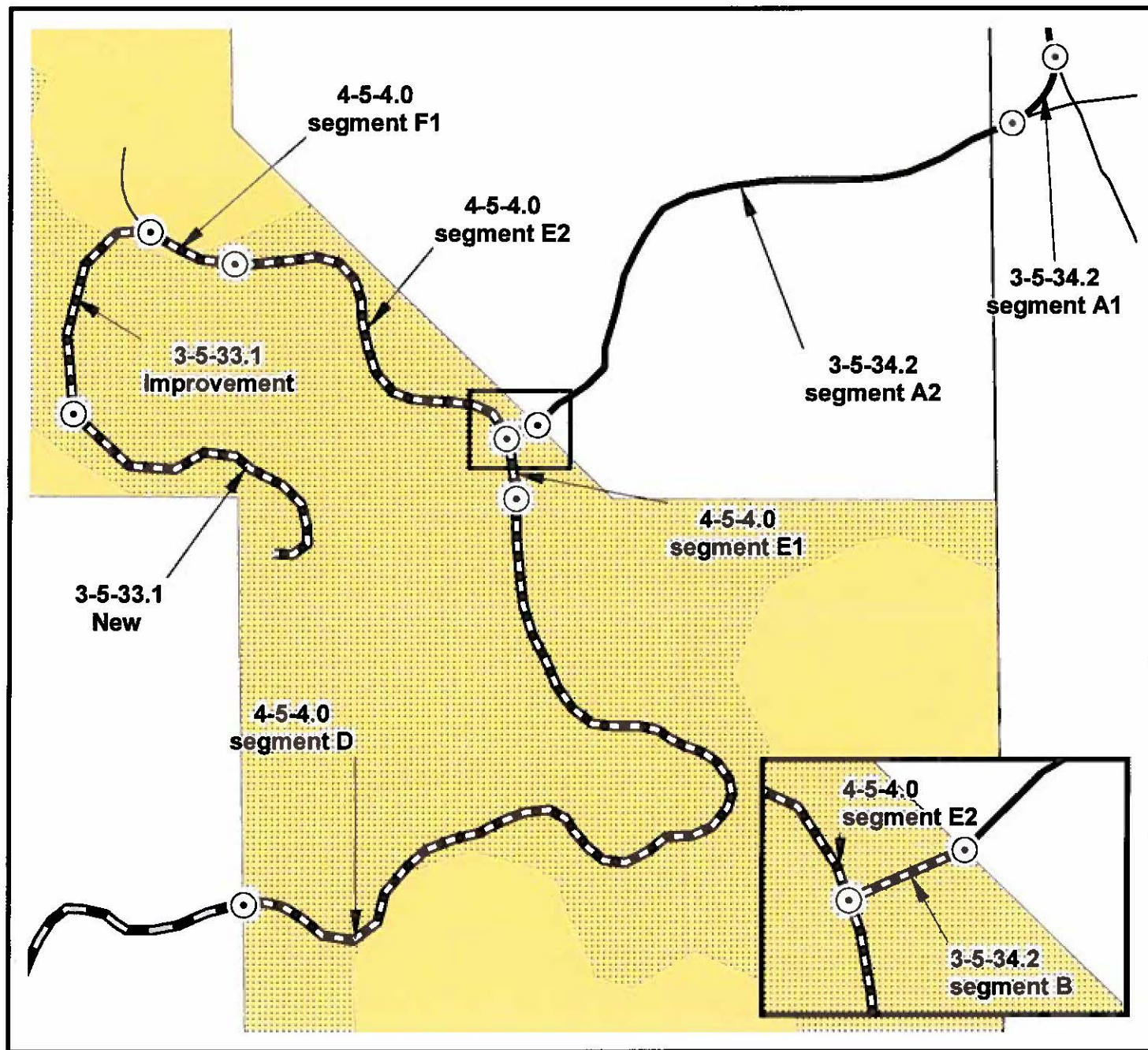
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON
Road Plan Map

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 9 of 10

4/8/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT-OREGON

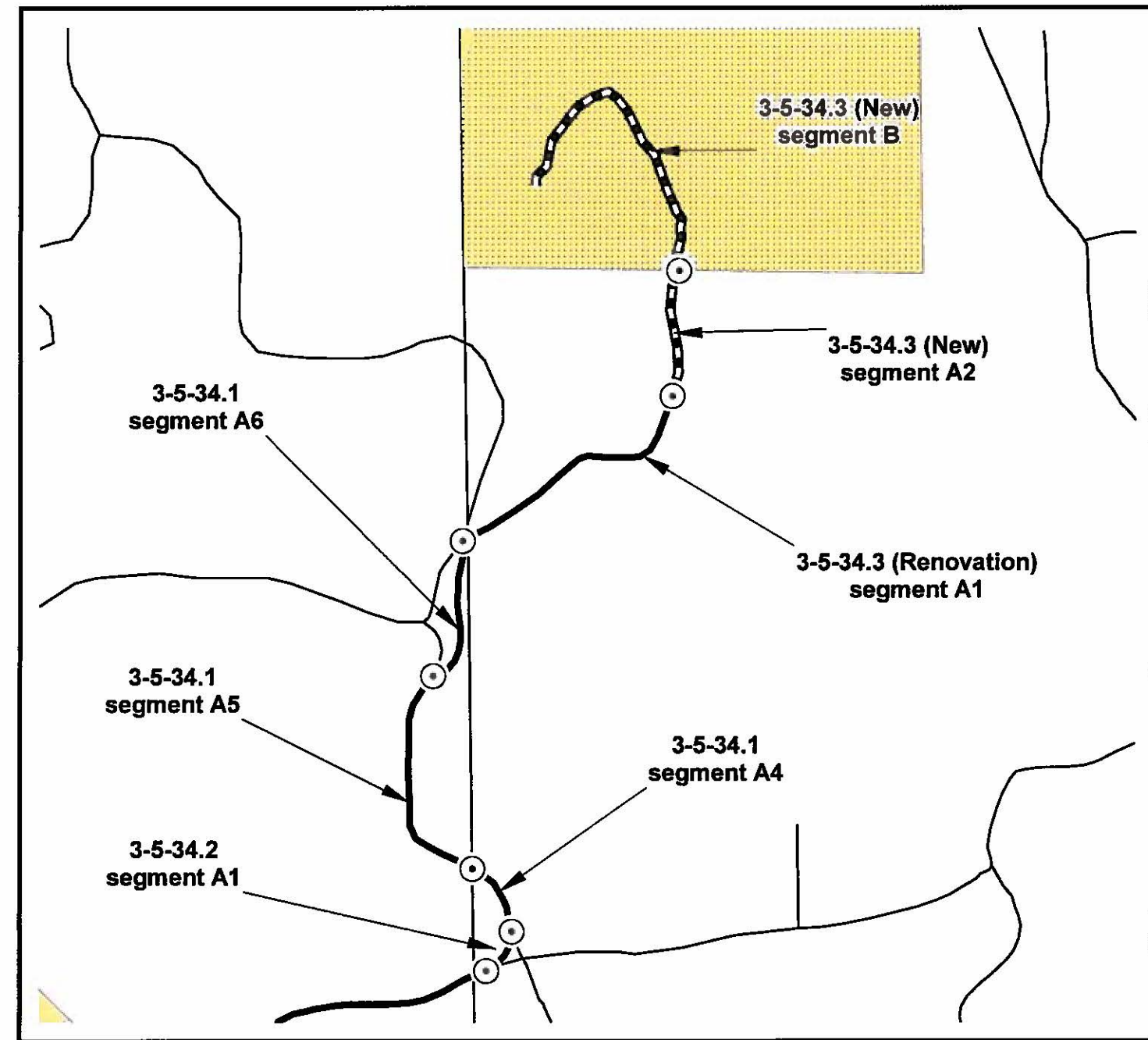
Lookout Below Timber Sale •
Contract No. ORN04-TS-2019.0401
Exhibit E

Page 10 of 10



4/8/2019

T. 03S. R. 6W. Section 25
T. 03S. R. 5W Sections 19, 33 & 34 W.M. - NORTHWEST OREGON DISTRICT - OREGON



Road segment breaks



Lookout Below Sale Area



BLM controlled road - Purchaser maintenance



Other Roads



Weyerhaeuser controlled road - Purchaser maintenance



Bureau of Land Management

1 inch equals 417 feet

0 225 450 900 Feet

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

COARSE WOODY DEBRIS (CWD) CREATION

The Purchaser shall select a total of three hundred forty-six (346) reserve trees and treat a total of three hundred eighty (380) reserve trees in the CWD Creation Units shown on Exhibit F to create Coarse Woody Debris (CWD) by saw-topping, high-girdling, basal-girdling or felling; treated trees will be marked with numbered aluminum tags and flagging. The Purchaser shall record UTM coordinates for all treated trees, tree data and treatment type on the Wildlife Tree Data Recording Forms (Illustration #4).

Treatment of trees to create CWD within any given unit shall not start until all yarding operations within that unit are complete. The Purchaser must provide a proposed schedule of work to the Authorized Officer at least one (1) week prior to commencing CWD Creation activities.

CWD Creation per CWD Unit

CWD Unit Number	Acres	Total Trees	Saw-Top	High Girdle	Basal Girdle	Fell	Tree Size to be Selected * (inches at DBH)
1	16	152	66	65	21	0	20 to 30
1RR	16	108	31	31	8	38	fell = 12 to 18 snags = 16 to 24
2	41	41	23	18	0	0	20 to 26
2B	12	12	7	5	0	0	20 to 30
3	34	34	18	16	0	0	Selected by the BLM
4	33	33	17	16	0	0	20 to 30
Totals	152	380	162	151	29	38	

* Select approximately 50% of the trees larger and 50% of the trees smaller than the median tree size for the given range unless stand conditions dictate otherwise. If only trees smaller than the appropriate size are available, select trees of the largest size class present. Do not select the largest, most dominant tree within any given area.

1. **Tree Selection** – The Purchaser shall select three hundred forty-six (346) reserve trees to create CWD by saw-topping, high-girdling, basal-girdling or felling according to the following guidelines. Unit-specific numbers of trees and sizes are displayed in the table above. The thirty-four (34) trees to be treated in Unit 3 have been pre-selected and marked by the BLM.

- Only Douglas-fir trees shall be selected for treatment.
- No trees marked with any existing metal tags shall be selected for treatment.

- No trees with nests or any nest-like structures of any birds or mammals, or trees with defects such as cavities, platforms, mistletoe infection, or dead, forked/multiple and/or broken tops shall be selected.
 - Selected trees shall be evenly distributed throughout the CWD units. When selecting trees, select approximately fifty (50) percent of the trees larger than the median tree size for the given range, and approximately fifty (50) percent of the trees smaller than the median tree size for the given range unless stand conditions dictate otherwise. If only trees smaller than the appropriate size are available, select trees of the largest size class present. Do not select the largest, most dominant tree within any given area.
- a. **Saw-topping and High-girdling:** Select healthy appearing Douglas-fir trees with live crown ratios greater than thirty (30) percent and with average or larger crown spread. If only trees with smaller live crown ratios than appropriate are available, select trees with the largest crown ratio present. Treatment types and selected trees shall be scattered uniformly throughout the units. Trees selected for saw-topping shall be selected singly. Trees selected for high-girdling shall be selected in groups of three (3) to five (5) trees. Trees selected for saw-topping or high-girdling shall not be located within seventy-five (75) feet of a drivable road or a property line boundary where BLM land abuts non-federal ownership.
- b. **Basal-girdling:** Select Douglas-fir trees with live crown ratios less than thirty (30) percent and smaller than average crown spread. If only trees with larger live crown ratios than appropriate are available, select appropriately sized trees with the smallest crown ratio present. Selected trees shall be located within the portion of the CWD units designated for basal-girdling and selected in groups of three (3) to five (5) trees. Trees selected for basal-girdling shall not be located within approximately one hundred fifty (150) feet of a drivable road or a property line boundary where BLM land abuts non-federal ownership. Trees selected for basal-girdling shall be those trees which provide minimal amounts or no shade to streams (e.g., north side of stream channel and/or being an area where topography or tree location minimizes the shade afforded to stream by selected tree, such as being located several tree spacings from the stream channel).
- c. **Tree felling:** Select Douglas-fir trees with live crown ratios less than thirty (30) percent and smaller than average crown spread. If only trees with larger live crown ratios than appropriate are available, select appropriately sized trees with the smallest crown ratio present. Selected trees shall be located within the portion of the CWD units designated for felling and shall be scattered uniformly throughout the units and selected singly. Trees to be selected for felling shall be located within one hundred (100) feet of the stream channel and selected so that when felled, the portion of the tree in contact with the stream channel would be at least six (6) inches in diameter. Trees selected for basal-girdling shall be those trees which provide minimal amounts or no shade to streams (e.g., north side of stream channel and/or being an area where topography or tree location minimizes the shade afforded to stream by selected tree, such as being located several tree spacings from the stream channel).

2. **CWD Treatment** –

a. **Saw-Topping**

1. The Purchaser shall climb and top selected trees at a height of at least sixty (60) feet above the ground at a point where approximately twenty to fifty (20-50) percent of the live crown remains; saw-topping heights shall be varied equally within this range (See Illustration 1). Topping shall be done with power tools (e.g., chainsaws).
2. The Purchaser shall cut several V-type notches that are a minimum of six (6) cuts into the sawn top surface of the tree, each a minimum of six (6) inches deep.
3. To the extent practicable, the Purchaser shall retain all green limbs and the largest dead limbs on the treated trees during the climbing and topping operations.
4. Tree tops shall be completely severed from the tree and fall completely to the ground inside unit boundaries.
5. Directionally fall tops in order to not damage existing snags and decay class 3 and 4 down wood larger than twenty-four (24) inches in diameter, under-story conifers, any tree containing a suspected nest of a bird or mammal, or any tree with defects such as hollow cavities, multiple tops, or decay, and avoid contact with unburned burn piles and BLM road spurs.
6. The Purchaser shall tie two (2) pieces of flagging of a color approved by the Authorized Officer around the bole of each treated tree, one (1) at a height of approximately twenty to thirty (20-30) feet above the ground and another at four and one-half (4.5) feet above the ground (measured from the uphill side of the tree).
7. A small numbered aluminum tag shall be nailed to the base of the treated tree (uphill side).

b. **High-Girdling** – within live crown

1. The Purchaser shall climb and girdle selected trees within the live crown at a point where approximately twenty to fifty (20-50) percent of the live crown remains below the point of girdling and at a height of at least sixty (60) feet above the ground; girdling heights shall be equally varied within this range. Girdling may be done with a hand tool or power tool and will consist of removing all bark and cambium in a ten to twelve (10-12) inch band completely around the main stem of the tree. (See Illustration #3)
2. Tool cuts must not penetrate more than a half (0.5) inches into the wood of high-girdled trees.
3. Live limbs below the point of high-girdling shall not be removed. To the extent practicable, the Purchaser shall retain the largest dead limbs on the trees during the climbing and high-girdling operations.

4. The Purchaser shall tie three pieces of flagging of a color approved by the Authorized Officer to each high-girdled tree. One flag shall be tied on a branch visible from the ground near the point of girdle, a second flag shall be tied around the bole of the tree at a height of approximately twenty to thirty (20-30) feet above the ground and a third flag at four and a half (4.5) feet above the ground (measured from the uphill side of the tree). The two highest flags shall extend at least four (4) feet from the knot.
5. A small numbered aluminum tag shall be nailed to the base of the treated tree (uphill side).

c. Basal-Girdling

1. The Purchaser shall basal-girdle selected trees by making three (3) parallel cuts around the bole of the tree between three (3) and four (4) feet above ground level measured on the uphill side of the tree; power tools may be used. Each cut must connect with itself completely around the tree and penetrate through the cambium layer into the wood at least one-half (0.5) inches, but not more than one and one-half (1.5) inches. The distance between the top cut and the bottom cut shall not exceed twelve (12) inches. (See Illustration #2)
2. The Purchaser shall tie a piece of flagging of a color approved by the Authorized Officer around the bole of each treated tree four and one-half (4.5) feet above the ground (measured from the uphill side of the tree).
3. A small numbered aluminum tag shall be nailed to the base of the treated tree (uphill side).

d. Felling

1. The Purchaser shall completely sever selected trees from the stump and fall them completely to the ground.
2. Stumps shall be no more than four and one-half (4.5) feet tall measured on the uphill side.
3. No part of a fallen tree shall rest outside of unit boundaries, or within one hundred fifty (150) feet of any open (unblocked) road as determined by the Authorized Officer.
4. Directionally fall trees toward the nearest mapped stream.
5. Trees shall be felled into active stream channels only during the Oregon Department of Fish and Wildlife's (ODFW's) in-stream work window (July 15 – September 30) unless a waiver is obtained from ODFW by the BLM.
6. Directionally fall trees away from existing snags, decay class three (3) and four (4) down wood larger than twenty-four (24) inches in diameter, under-story conifers, any tree containing a suspected nest of a bird or mammal, or any green tree with defect such as multiple tops, hollow cavities, or decay.

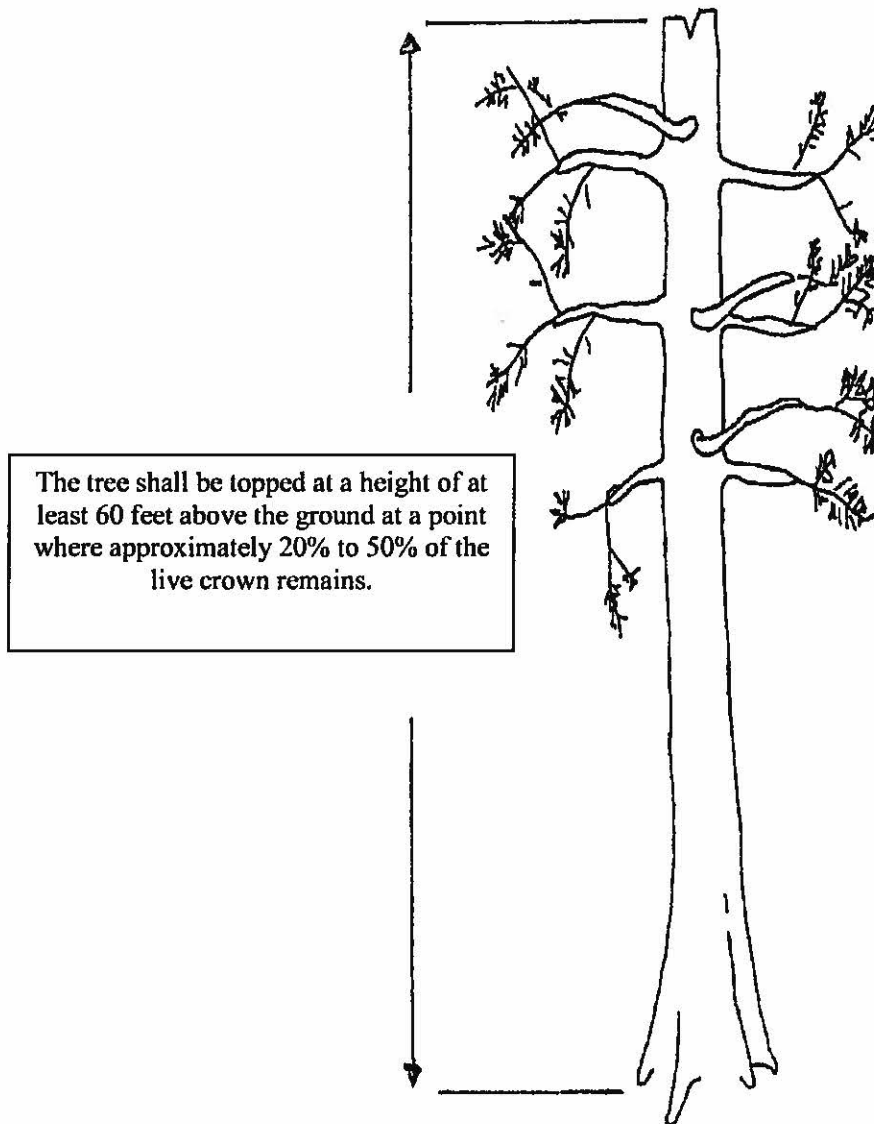
7. A small numbered aluminum tag shall be nailed to the base of the felled tree.

3. **Documentation**

- a. The Purchaser shall provide the location for all saw-topped, high-girdled, basal-girdled or felled trees by documenting the UTM coordinates using a GPS unit with NAD83 datum, zone 10. If acceptable GPS satellite coverage cannot be obtained at a site, the point shall be hand drawn onto a map and submitted to the Authorized Officer with the Wildlife Tree Data Recording Forms.
- b. The Purchaser shall provide the Wildlife Tree Data Recording Forms, UTM coordinates, and any hand drawn maps in a digital format once per week to the Authorized Officer for work completed during the previous week.
- c. All information recorded on the Wildlife Tree Data Recording Forms shall be legible, clear and reproducible on a black and white copy machine. All documents shall be reviewed by the Purchaser to ensure completeness, legibility, accuracy, and consistency in style before submitting them to the Authorized Officer.

ILLUSTRATION #1 – Saw-topping within the Live Crown

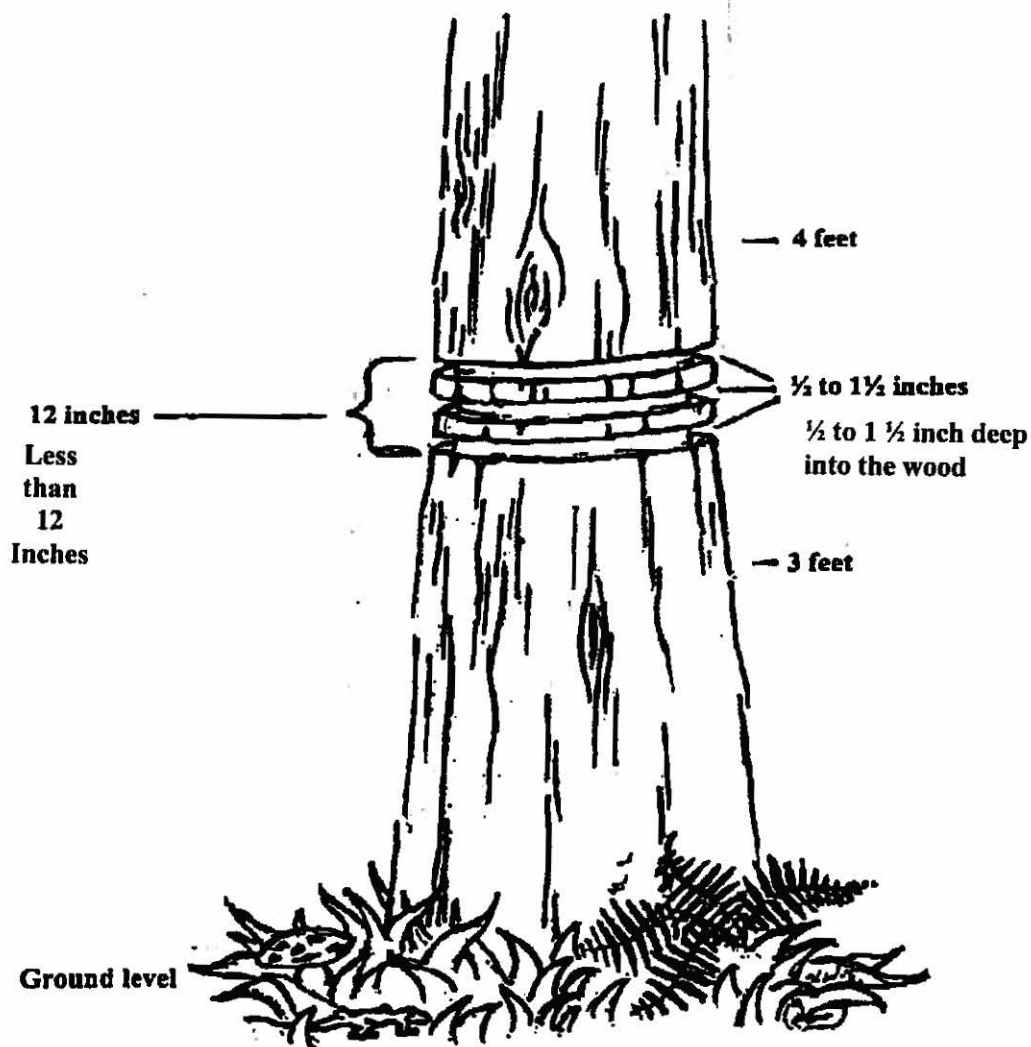
Cut a V-type notch or a “King’s Crown” (with a minimum of 6 cuts) into the sawn top surface, a minimum of 6 inches deep, to provide for a greater potential of future decay in the treetop. To the extent practicable, retain all green limbs and the largest dead limbs on the treated trees during the climbing and topping operation.



Tie two pieces of flagging around the bole of each saw-topped tree, one at a height of approximately 20-30 feet and one 4.5 feet above the ground. A small numbered aluminum tag is nailed to the base of the tree (uphill side).

Basal-Girdling ILLUSTRATION #2

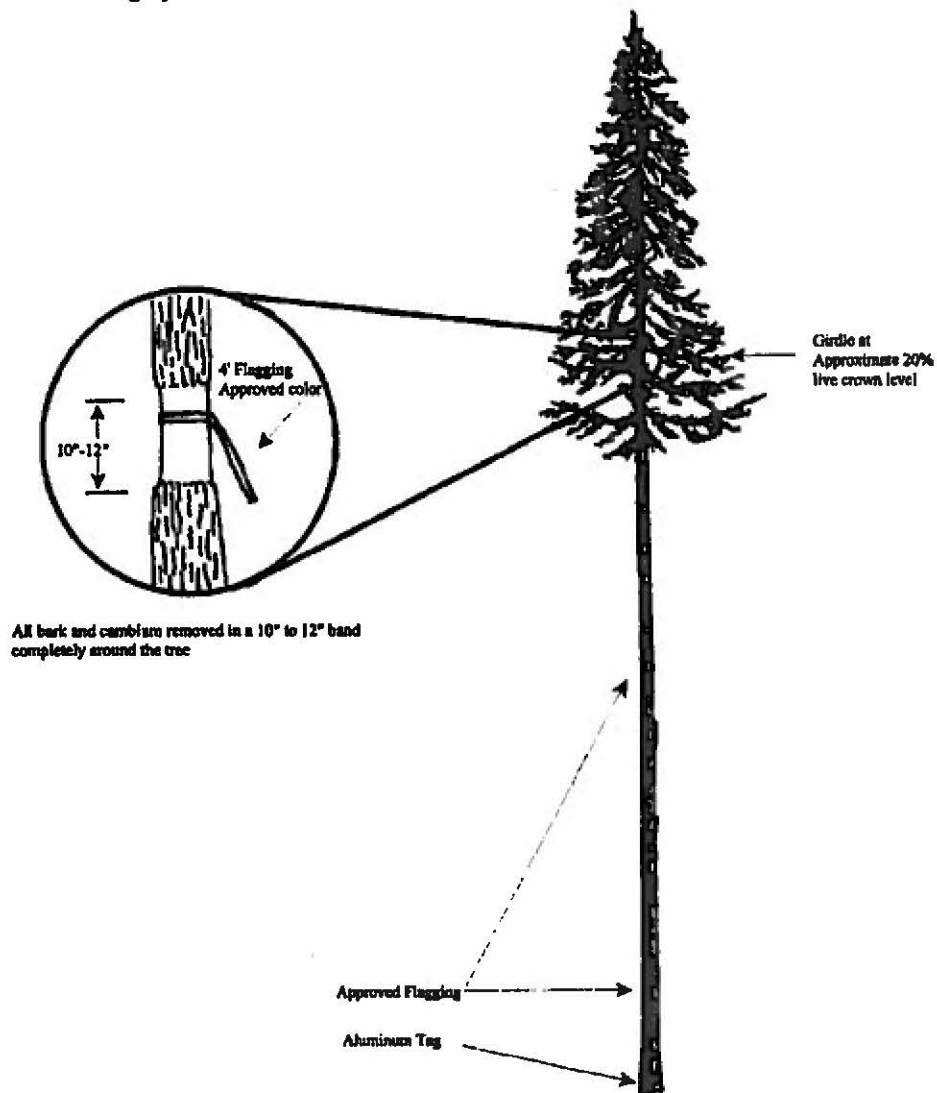
Girdling example: make three (3) parallel unbroken cuts around the tree. The distance between the top and the bottom of the cut shall not exceed twelve inches. Cuts must penetrate at least $\frac{1}{2}$ inch, but not more than $1\frac{1}{2}$ inches into the wood of the tree. Trees shall be girdled between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



Tie one piece of flagging around the bole of each basal-girdled tree 4.5 feet above the ground. A small numbered aluminum tag is nailed to the base of the tree (up-hill side).

Illustration #3 – High-Girdling within the Live Crown

Crown Girdling Specifications:



To the extent practicable, retain all green limbs and the largest dead limbs on the treated trees below the point of treatment. Treatment heights shall be greater than or equal to 60 feet above the ground at a point in the live crown where 20% to 50% of live branches remain. Tie three pieces of flagging around the bole of each high-girdled tree, one at the point of girdling, one at a height of approximately 20-30 feet and one 4.5 feet above the ground. A small numbered aluminum tag is nailed to the base of the tree (uphill side).

Date _____ **Page** _____

[illegible]

¹ **Treatment Types:** ST = Saw-top; HG = High-Girdle; BG = Basal-Girdle; F = Fell.

² **DBH** = Diameter of treated tree measured at 4.5 feet above the ground on the uphill side to the nearest one (1) inch.

³ UTM = Universal Transverse Mercator Coordinates (GPS) in NAD 83 datum

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Coarse Woody Debris Creation

Lookout Below Timber Sale
ORN04-TS-2019.0401
Exhibit F
Page 10 of 13

T03S-R05W Section 19 W. M. - NORTHWEST OREGON DISTRICT - OREGON

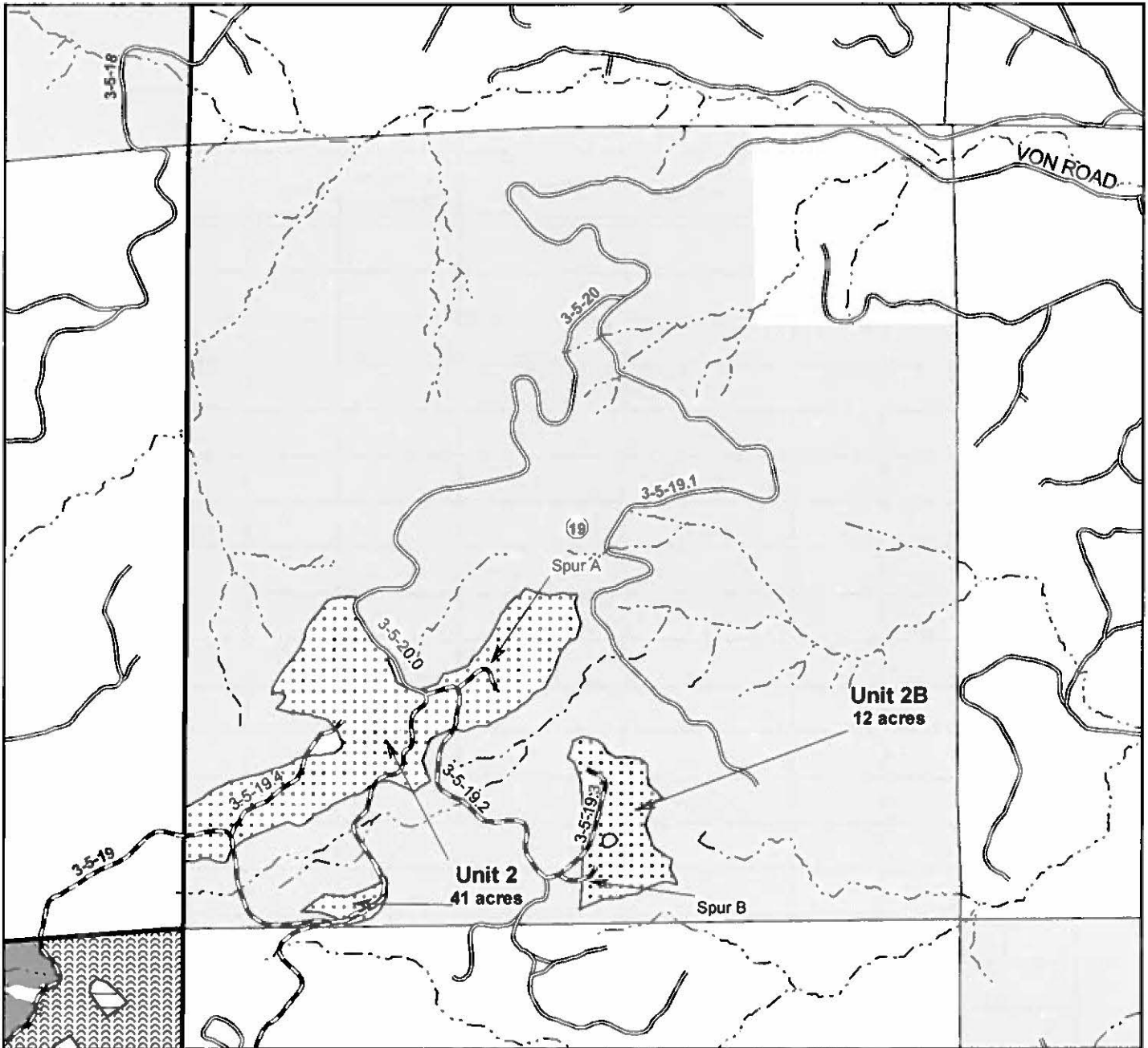
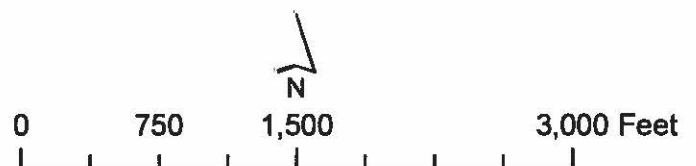


Exhibit F CWD Unit	Acres	Total Trees	Saw-Top	High Girdle	Basal Girdle	Fell	Tree Size to be Selected * (Inches DBH)
2	41	41	23	18	0	0	20 - 26
2B	12	12	7	5	0	0	20 - 30



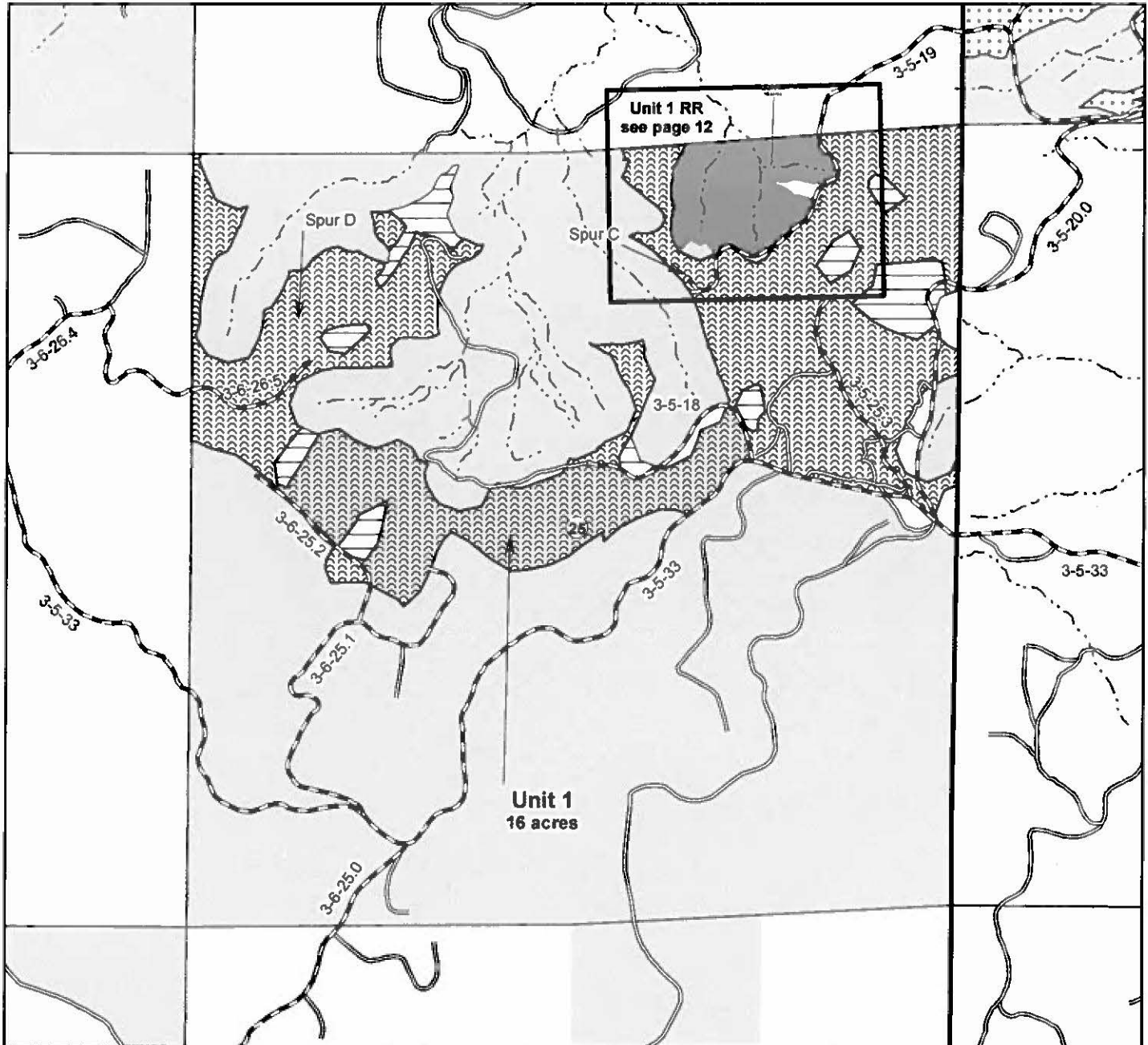
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

Prepared By: csween Date: 3/29/2019

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Coarse Woody Debris Creation

Lookout Below Timber Sale
ORN04-TS-2019.0401
Exhibit F
Page 11 of 13

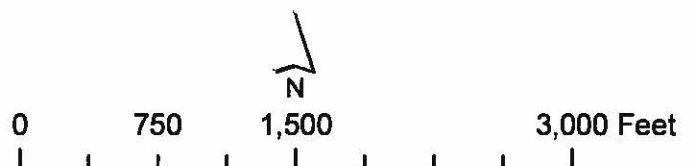
T03S-R06W Section 25 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Unit 1
16 acres

- Saw Top and High Girdle
- Basal Girdle, Saw Top and High Girdle
- Lookout Below Project Area: No CWD Treatments
- Unit 1 RR (See page 12)
- Lookout Below Project Roads
- Other Roads
- Streams
- BLM Land

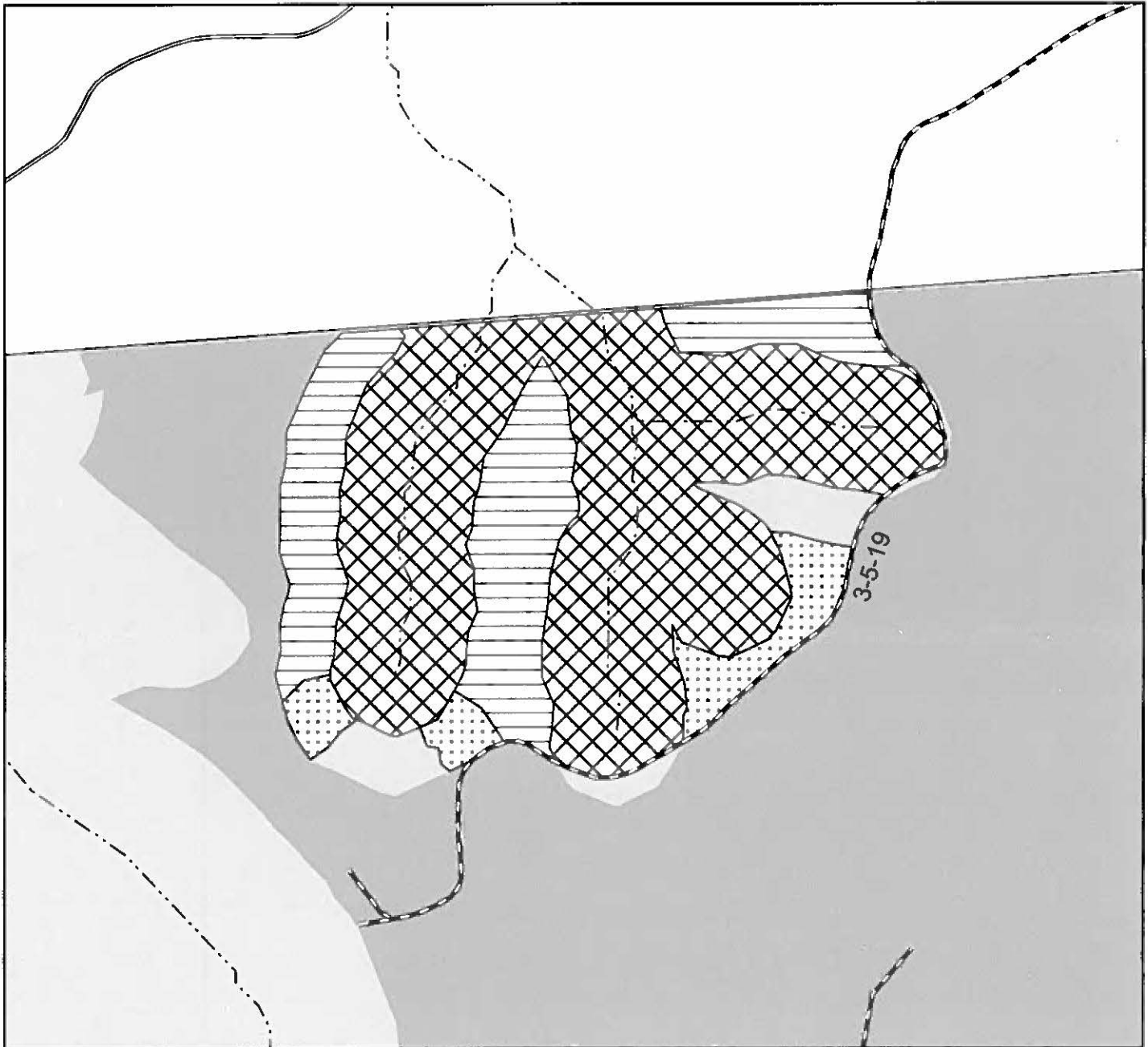
Exhibit F CWD Unit Number	Acres	Total Trees	Saw-Top	High Girdle	Basal Girdle	Fell	Tree Size to be Selected * (Inches DBH)
1	16	152	66	65	21	0	20-30



United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Coarse Woody Debris Creation

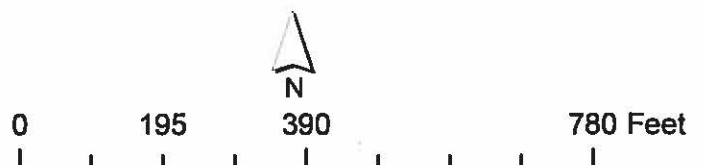
Lookout Below Timber Sale
ORN04-TS-2019.0401
Exhibit F
Page 12 of 13

T03S-R06W Section 25 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- Saw Top and High Girdle
- Basal Girdle, Saw Top, and High Girdle
- Felling, Saw Top, High Girdle and Basal Girdle
- CWD Unit 1 (See page 11)
- Lookout Below Project Roads
- Other Roads
- Streams
- BLM Land

Exhibit F CWD Unit	Acres	Total Trees	Saw-Top	High Girdle	Basal Girdle	Fell	Tree Size to be Selected * (Inches DBH)
IRR	16	108	31	31	8	38	fell = 12 to 18 snags = 16 to 24



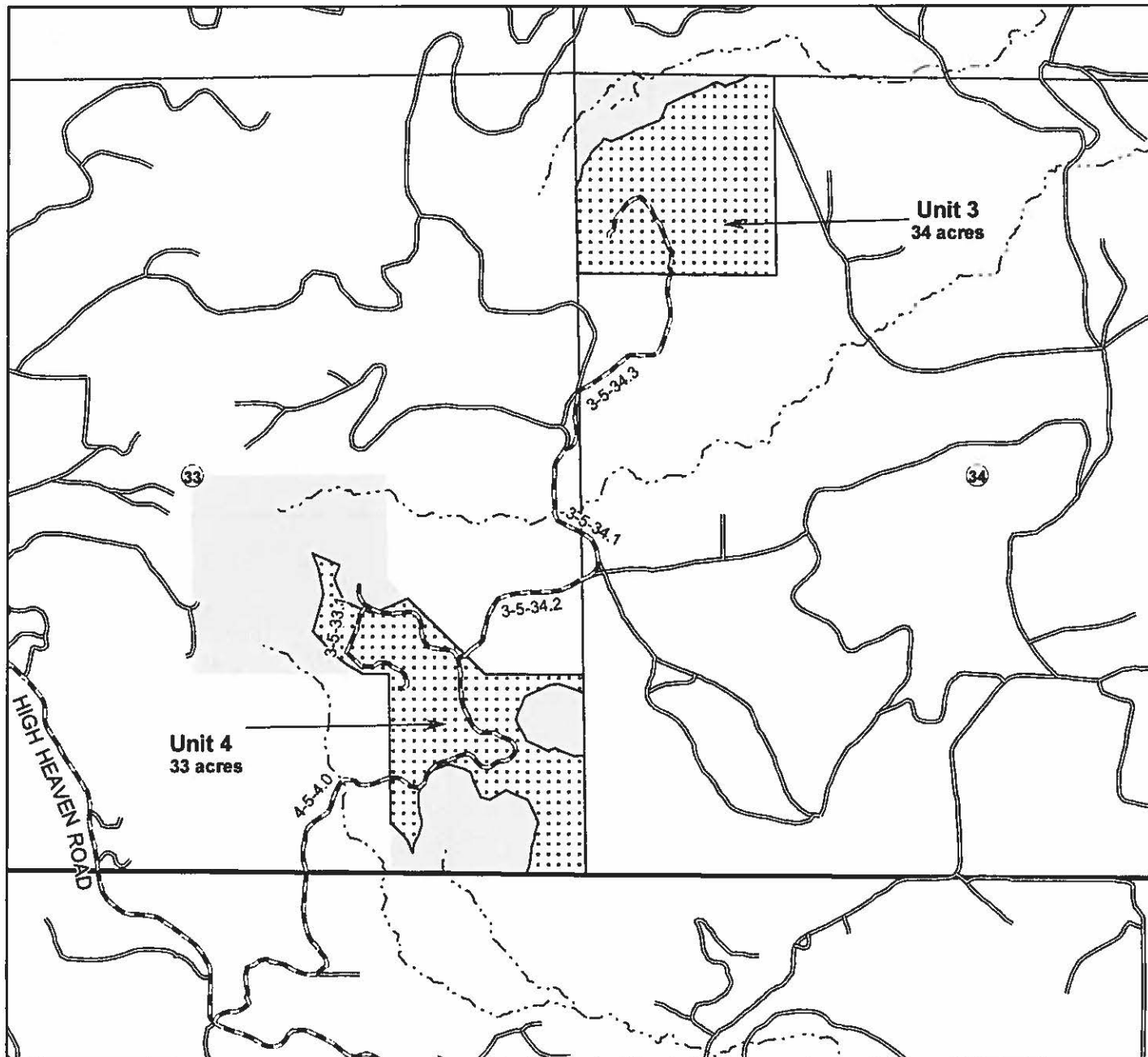
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.

Prepared By: csween Date: 3/29/2019

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Coarse Woody Debris Creation

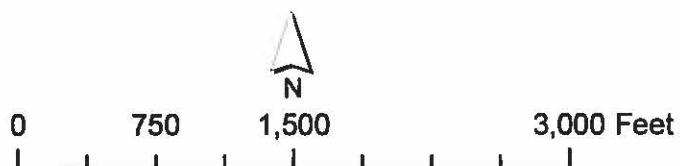
Lookout Below Timber Sale
ORN04-TS-2019.0401
Exhibit F
Page 13 of 13

T03S-R05W Section 33 & 34 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- Saw Top and High Girdle
- Lookout Below Project Roads
- Other Roads
- Streams
- BLM Land

Exhibit F CWD Unit Number	Acres	Total Trees	Saw-Top	High Girdle	Basal Girdle	Fell	Tree Size to be Selected * (Inches DBH)
3	34	34	18	16	0	0	Selected by the BLM
4	33	33	17	16	0	0	20 - 30



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

Prepared By: csween Date: 3/29/2019

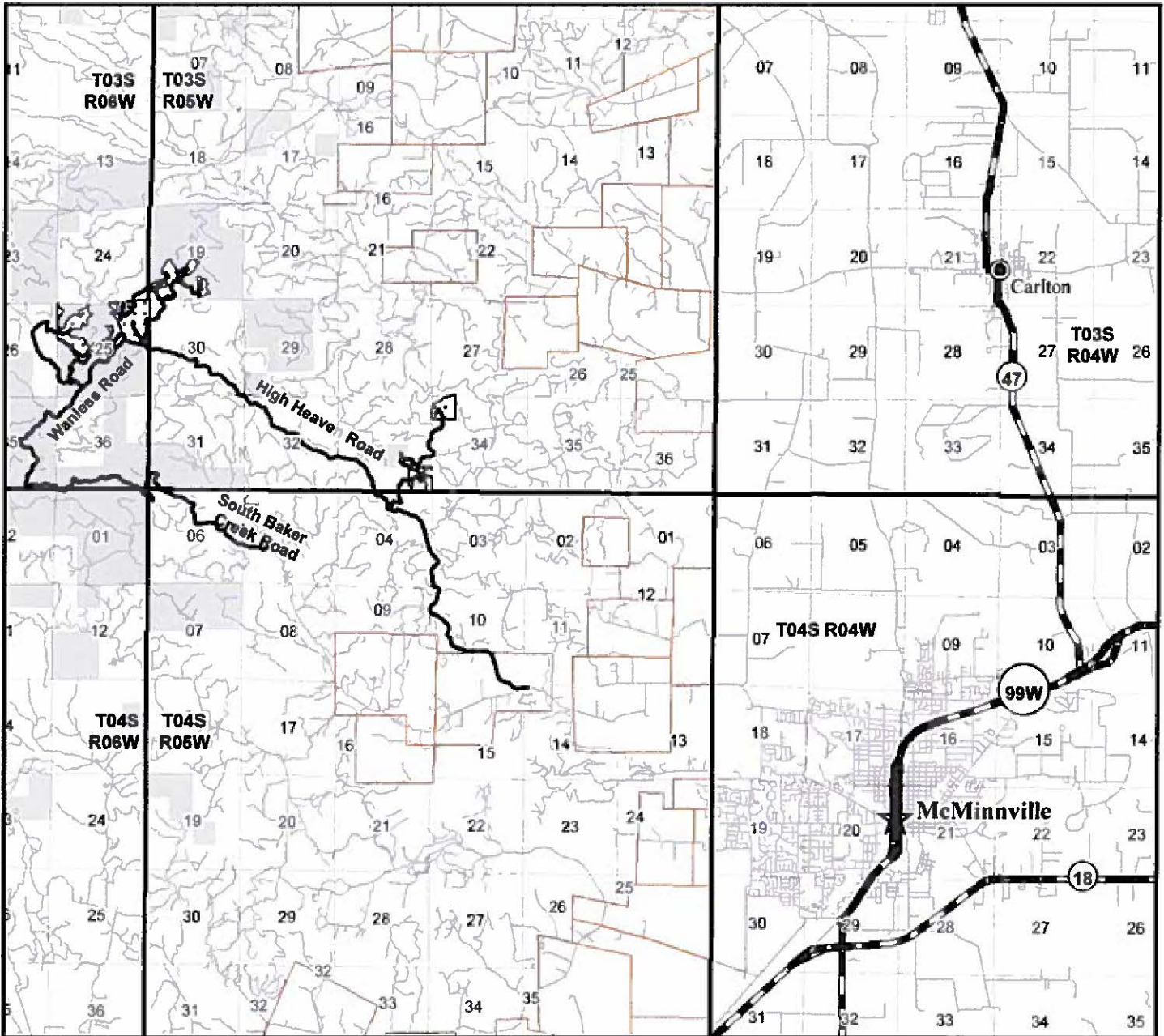
United States Department of the Interior
BUREAU OF LAND MANAGEMENT

PROJECT LOCATION MAP

T. 3S. R. 5W. Sections 19, 33 & 34

T. 3S. R. 6W Section 25 W. M. - NORTHWEST OREGON DISTRICT - OREGON

Lookout Below Timber Sale
Contract No. ORN04-TS-2019.0401
Project Location Map
Page 1 of 1



0 1 2 4 Miles

- Lookout Below Project Area
- Lookout Below Project Roads
- Highway
- Other Roads
- Bureau of Land Management



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

Prepared By: caween 4/2/2019

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Yamhill	T3S	R6W	25	Lots 1-8 ,10-12	Willamette
O&C	Yamhill	T3S	R5W	19	SW1/4, W1/2SE1/4	Willamette
O&C	Yamhill	T3S	R5W	33	Lot 1,NW1/4SE1/4,SE1/4SE1/4	Willamette
O&C	Yamhill	T3S	R5W	34	NW1/4NW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	6,493.0	6,738.0	6,772.0	106,147	248	26,406
Grandfir	234.0	244.0	244.0	2,466	0	394
Western Hemlock	233.0	238.0	238.0	3,713	0	1,160
Red Alder	123.0	237.0	237.0	1,713	3,657	1,922
Bigleaf Maple	44.0	136.0	136.0	571	2,747	1,129
Western Redcedar	12.0	13.0	13.0	146	0	36
Totals	7,139.0	7,606.0	7,640.0	114,756	6,652	31,047

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
206.0	45.0	5.0	256.0	27.9

Comments:

Logging Costs

Stump to Truck	\$651,833.02
Transportation	\$273,816.00
Road Construction	\$720,058.18
Maintenance/Rockwear	\$84,217.28
Road Use	\$9,959.78
Other Allowances	\$59,645.50
Total:	\$1,799,529.76
Total Logging Cost per MBF:	\$252.07

Utilization Centers

Location	Distance	% of Net Volume
Willamina, Or.	30.0 miles	100 %

Profit & Risk

Profit	9 %
Risk	3 %
Total Profit & Risk	12 %

Tract Features

Quadratic Mean DBH	15.5 in
Average GM Log	64 bf
Average Volume per Acre	27.9 mbf
Recovery	93 %
Net MBF volume:	
Green	7,139.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	48 %
Average Yarding Slope	20 %
Average Yarding Distance	300 ft
Cable Logging:	
Percent of Sale Volume	52 %
Average Yarding Slope	60 %
Average Yarding Distance	550 ft
Aerial Logging:	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	March 2019
Cruised By	Salmon
Cruise Method	
Variable Plot/100GED	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	26,406	6,493.0	\$518.63	\$62.24	\$252.07	\$0.00	\$204.30	\$1,326,519.90
Grandfir	394	234.0	\$411.79	\$49.41	\$252.07	\$0.00	\$110.30	\$25,810.20
Western Hemlock	1,160	233.0	\$393.22	\$47.19	\$252.07	\$0.00	\$94.00	\$21,902.00
Red Alder	1,922	123.0	\$480.87	\$57.70	\$252.07	\$10.06	\$181.20	\$22,287.60
Bigleaf Maple	1,129	44.0	\$255.68	\$30.68	\$252.07	\$57.27	\$30.20	\$1,328.80
Western Redcedar	36	12.0	\$750.00	\$90.00	\$252.07	\$0.00	\$407.90	\$4,894.80
Totals	31,047	7,139.0						\$1,402,743.30

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				48.0 %	46.0 %	6.0 %	
Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				76.0 %	22.0 %	2.0 %	
Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				41.0 %	52.0 %	7.0 %	
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	No. 5 Sawmill		Camp Run
Bigleaf Maple							100.0 %
Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill			Camp Run
Western Redcedar							100.0 %

Marginal Log Volume By Grade

Species	Utility Cull	Peeler Cull
Red Alder	95	0
Bigleaf Maple	210	0

Lookout Below**Unit Summary****ORN04-TS-2019.0401****Unit: 1****Net Volume/Acre: 29.9 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	3,716.0	3,858.0	3,879.0	14,972
Grandfir	148.0	155.0	155.0	248
Western Hemlock	148.0	151.0	151.0	735
Red Alder	78.0	150.0	150.0	1,217
Bigleaf Maple	28.0	86.0	86.0	714
Western Redcedar	8.0	8.0	8.0	23
Totals:	4,126.0	4,408.0	4,429.0	17,909

Regeneration Harvest	133.0
Partial Cut	5.0
Right of Way	0.0
Total Acres:	138.0

Unit: 2**Net Volume/Acre: 14.7 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	586.0	607.0	607.0	2,703
Totals:	586.0	607.0	607.0	2,703

Regeneration Harvest	0.0
Partial Cut	40.0
Right of Way	0.0
Total Acres:	40.0

Unit: 2b**Net Volume/Acre: 30.5 MBF**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	301.0	313.0	315.0	1,210
Grandfir	12.0	12.0	12.0	21
Western Hemlock	12.0	12.0	12.0	61
Red Alder	7.0	13.0	13.0	101
Bigleaf Maple	2.0	7.0	7.0	59
Western Redcedar	1.0	1.0	1.0	2
Totals:	335.0	358.0	360.0	1,454

Regeneration Harvest	11.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	11.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	903.0	937.0	943.0	3,630
Grandfir	37.0	38.0	38.0	62
Western Hemlock	36.0	37.0	37.0	182
Red Alder	19.0	37.0	37.0	302
Bigleaf Maple	7.0	21.0	21.0	178
Western Redcedar	2.0	2.0	2.0	6
Totals:	1,004.0	1,072.0	1,078.0	4,360

Net Volume/Acre: 30.4 MBF

Regeneration Harvest	33.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	33.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	794.0	824.0	829.0	3,190
Grandfir	32.0	34.0	34.0	55
Western Hemlock	32.0	33.0	33.0	160
Red Alder	17.0	33.0	33.0	265
Bigleaf Maple	6.0	19.0	19.0	156
Western Redcedar	1.0	2.0	2.0	5
Totals:	882.0	945.0	950.0	3,831

Net Volume/Acre: 30.4 MBF

Regeneration Harvest	29.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	29.0

Unit: RW

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	193.0	199.0	199.0	701
Grandfir	5.0	5.0	5.0	8
Western Hemlock	5.0	5.0	5.0	22
Red Alder	2.0	4.0	4.0	37
Bigleaf Maple	1.0	3.0	3.0	22
Totals:	206.0	216.0	216.0	790

Net Volume/Acre: 41.2 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	5.0
Total Acres:	5.0

Comments:

Unit 1 volume is combined with Unit 1A in cruise report for TSIS purposes.
Tree count in Unit 1 for GF, BLM, was adjusted from cruise report to balance sheet.

Total Stump To Truck	Net Volume	\$/MBF
\$651,833.02	7,139.0	\$91.31

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	137.0	\$172.74	\$23,665.38	4 Loads/day @ 4800BF / \$2.00 per gallon/Thinning
Cable: Medium Yarder	GM MBF	3,834.0	\$98.71	\$378,454.14	7 Loads/day @4800/\$2.00 per gallon/Regen
Track Skidder	GM MBF	545.0	\$93.56	\$50,990.20	6 Loads/day@4800/\$2.00 per gallon/Thinning
Track Skidder	GM MBF	3,090.0	\$62.37	\$192,723.30	9 Loads/day@4800/\$2.00 per gallon/Regen
Subtotal				\$645,833.02	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Lift Tree	Each	20.0	\$300.00	\$6,000.00	
Subtotal				\$6,000.00	

Additional Moves

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

Total	Net Volume	\$/MBF
\$273,816.00	7,139.0	\$38.35

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Willamina, Or.	30.0	All Species	GM MBF	7,606.0	\$36.00	\$273,816.00	100 %

Comments:

100% of volume going to Willamina Or. 60 miles round trip. 5mbf/load 2hr. round trip @ \$90 /hr. x 2hr round trip. \$90/hr. X 2hrs. round trip = \$180 per trip. 5mbf per load = \$36.00.

Engineering Allowances

Total	Net Volume	\$/MBF
\$814,235.24	7,139.0	\$114.05

Cost Item	Total Cost
Road Construction:	\$720,058.18
Road Maintenance/Rockwear:	\$84,217.28
Road Use Fees:	\$9,959.78

Comments:

Engineering cost from engineering appraisal.

Lookout Below**Other Allowances****ORN04-TS-2019.0401**

Total	Net Volume	\$/MBF
\$59,645.50	7,139.0	\$8.35

Environmental Protection

Cost item	Total Cost
Basal Gridle	\$696.00
Fell	\$1,216.00
Equipment Wash	\$296.00
High Gridle	\$9,437.50
Saw-Top	\$11,340.00
Subtotal	\$22,985.50

Slash Disposal & Site Prep

Cost item	Total Cost
Slash	\$5,760.00
Landing Pile Cover,Burn	\$1,200.00
Machine Pile Construction,Cover,Burn	\$29,700.00
Subtotal	\$36,660.00

Comments:

Line items 1-4 from Wildlife Appraisal.

Line items 6-9 from Fuels Appraisal.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Timber Sale Number
ORN04-TS-2019.0401

Timber Sale Name
Lookout Below

Sale date
05/15/2019

INDEPENDENT PRICE DETERMINATION CERTIFICATE

Bidder or Offeror (Name)	Address (include zip code)
<p>A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:</p> <p>1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;</p> <p>2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and</p> <p>3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.</p> <p>B. Each person signing this bid or proposal certifies that:</p> <p>1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action</p>	<p>contrary to A. 1 through 3 above; or</p> <p>2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and</p> <p>(ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.</p> <p>C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.</p> <p>D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.</p>
(Authorized Signature of Bidder)	Name and Title (type or print)

INSTRUCTIONS

Submit a properly completed and signed original copy of this form, with offers or bids for sales of all government-owned property to Bureau of Land Management as follows:

- A. Include with sealed bids, written quotations and written offers.
- B. At auction, at close of bidding and before award of spot bid sale.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXPORT DETERMINATION

FORM APPROVED
OMB No. 1004-0058
Expires: June 30, 2019

Location of facility where Federal Timber is
expected to be processed

INSTRUCTIONS

Timber sale applicant forwards information to
Contracting Officer.

In compliance with requirements of 43 CFR 5424.1, ☐ I ☐ We hereby submit the following information:

(1) Have you exported private timber from lands tributary to the above processing facility within the last 12 months?

☐ Yes ☐ No (If "Yes," give date of last export sale.)

a. Export (date) _____

(2) Provide names of affiliates * who have exported private timber from lands tributary to the above processing facility within the last 12 months and date of last export sales.

a. Affiliate _____ Export date _____

b. Affiliate _____ Export date _____

c. Affiliate _____ Export date _____

*See 43 CFR 5400.0-5

Name of Firm _____

Signature of Signing Officer _____

Title _____

Date _____

NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information requested by this form.

AUTHORITY: 43 CFR Part 5420 permit collection of the information requested by this form.

PRINCIPAL PURPOSE: The BLM uses the information in this form to determine whether Federal timber has been substituted for exported unprocessed private timber.

ROUTINE USES: Timber sale purchaser provides information regarding their export of private timber.

EFFECT OF NOT PROVIDING INFORMATION: Submission of the requested information is required to obtain or retain a benefit. Failure to submit all of the requested information or to complete this form may result in delay or preclude the BLM's acceptance of your form.

The Paperwork Reduction Act requires us to inform you that:

The BLM collects this information to determine whether Federal timber has been substituted for exported private timber in accordance with 43 CFR 5421.1 and 5424.0-6(e).

You do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: The estimated public reporting burden for this form is 1 hour per response for a majority of responses, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. You may submit comments regarding the burden estimate or any other aspect of this form to: U.S. Department of the Interior, Bureau of Land Management (1004-0058), Bureau Information Collection Clearance Officer, 1849 C Street, N.W., Room 2134 LM, Washington, D.C. 20240.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Timber Sale Number
ORN04-TS-2019.0401

Timber Sale Name
Lookout Below

Sale date
05/15/2019

INDEPENDENT PRICE DETERMINATION CERTIFICATE

Bidder or Offeror (Name)	Address (include zip code)
<p>A. By submission of this bid or proposal, each bidder or offeror certifies, and in the case of a joint bid or proposal, each party thereto certifies as to its own organization, that in connection with this sale:</p> <p>1. The prices in this bid or proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices, with any other bidder or offeror or with any competitor;</p> <p>2. Unless otherwise required by law, the prices which have been quoted in this bid or proposal have not been knowingly disclosed by the bidder or offeror and will not knowingly be disclosed by the bidder or offeror prior to opening, in the case of a bid, or prior to award, in the case of a proposal, directly or indirectly to any other bidder or offeror or to any competitor; and</p> <p>3. No attempt has been made or will be made by the bidder or offeror to induce any other person or firm to submit or not to submit a bid or proposal for the purpose of restricting competition.</p> <p>B. Each person signing this bid or proposal certifies that:</p> <p>1. He is the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein and that he has not participated, and will not participate, in any action</p>	<p>contrary to A. 1 through 3 above; or</p> <p>2. (i) He is not the person in the bidder's or offeror's organization responsible within that organization for the decision as to the prices being bid or offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to A. 1 through 3, above, and as their agent does hereby so certify; and</p> <p>(ii) He has not participated, and will not participate, in any action contrary to A. 1 through 3, above.</p> <p>C. This certification is not applicable to a foreign bidder or offeror submitting a bid or proposal for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.</p> <p>D. A bid or proposal will not be considered for award where A. 1, 3, or B., above, has been deleted or modified. Where A. 2, above, has been deleted or modified, the bid or proposal will not be considered for award unless the bidder or offeror furnishes with the bid or proposal a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, determines that such disclosure was not made for the purpose of restricting competition.</p>

(Authorized Signature of Bidder)

Name and Title (type or print)

INSTRUCTIONS

Submit a properly completed and signed original copy of this form, with offers or bids for sales of all government-owned property to Bureau of Land Management as follows:

- A. Include with sealed bids, written quotations and written offers.
B. At auction, at close of bidding and before award of spot bid sale.

(Continued on page 2)

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on (date)

(Check appropriate box, sign in ink, and complete the following)

<input type="checkbox"/> Signature, if firm is individually owned	Name of firm (type or print)
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)
<input type="checkbox"/> Corporation organized under the state laws of	(To be completed following oral bidding)
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By (signature)
Title	Date
Submit bid, in duplicate, to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" or (1a) "Vegetative Resources Other Than Timber" (2) Time bids are to be opened (3) Legal description

NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information required by this form.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

PRINCIPAL PURPOSE: To qualify an oral auction bidder, and then if successful, to bind bidder to certain contract conditions.

ROUTINE USES: To determine that an individual is qualified to participate in oral auction bidding, and, as surety that bidder will fulfill contract requirements.

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for timber or vegetative resources.

(Continued on page 3)

(Form 5440-9, page 2)

INSTRUCTIONS TO BIDDERS

1. **AUTHORITY**—Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS**—A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.

3. **INSPECTION OF TIMBER/VEGETATIVE RESOURCES**—Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.

4. **DISCLAIMER OF WARRANTY**—Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.

5. **BIDS**—Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued *Timber/Vegetative Resource Sale Notice*.

(a) **Sealed Bid Sales**—Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber/Vegetative Resources*, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) **Auction Sales**—Submission of the required bid deposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.

(c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.

(d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.

6. **BID FORMS**—All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.

(a) **Lump Sum Sales**—Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.

(b) **Timber Scale Sales**—Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management

estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

7. **BID DEPOSIT**—All bidders must make a deposit of not less than the amount specified in the *Timber/Vegetative Resource Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior—BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

8. **AWARD OF CONTRACT**—Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.

9. **TIMBER/VEGETATIVE RESOURCE SALE CONTRACT**—To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND—

(a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approval list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) any guaranteed remittance approved by the Contracting Officer.

(b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*

11. **PAYMENT BOND**—If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*

12. **PAYMENT OF PURCHASE PRICE**—For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.

13. **LIQUIDATED DAMAGES**—Within thirty (30) days from receipt of *Timber/Vegetative Resources Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.

14. **NINETY-DAY SALES** – If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.

15. **UNAUTHORIZED USE OF GOVERNMENT PROPERTY** – A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

16. **EQUAL OPPORTUNITY CLAUSE** – This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.

17. **LOG EXPORT** – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2)

cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use, or (4) western red cedar lumber which does not meet Lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood, (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*

18. **DETAILED INFORMATION** – Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.