

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

Bell Tower Timber Sale
ORN04-TS-2017.0404
Date: July 26, 2017

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 Northwest Oregon 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, August 23, 2017.

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 Tillamook Headlight Herald on or about July 26, 2017. 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 the 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 sale 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 Northwest Oregon District Office at 503-375-5646.

Attachments:

Form 5450-17

Form 5430-11

Form 5440-9

TIMBER SALE NOTICE

NORTHWEST OREGON DISTRICT
TILLAMOOK FIELD OFFICE
COLUMBIA MASTER UNIT

Sale Date: August 23, 2017

CONTRACT NO.: ORN04-TS-2017.0404, Bell Tower Timber Sale, Lump Sum
TILLAMOOK COUNTY, OREGON: O&C: **ORAL AUCTION:**
BID DEPOSIT REQUIRED: \$263,200.00

All timber designated for cutting on: E½SW¼, SE¼, Sec. 1; S½NE¼, W½NW¼, SE¼NW¼, SE¼, Sec. 9; E½NE¼, Sec. 10; NE¼, W½NW¼, N½SW¼, N½SE¼, SW¼SW¼, Sec. 11; W½NW¼, NW¼SW¼, Sec. 12; N½NE¼, SW¼NE¼, NW¼, N½SW¼, SE¼SE¼, Sec. 15; N½NE¼, E½SE¼, Sec. 16, T. 4 S., R. 7 W., WM., Oregon.

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
23,981	8,159	Douglas-fir	10,062	\$261.50	\$2,631,213.00
159	3	red alder	4	\$123.60	\$494.00
24,140	8,162	Totals	10,066		\$2,631,707.40

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 or 35 basal area factor (BAF) for partial cut units. None of the total sale volume is salvage material. For merchantable Douglas-fir trees the average DBHOB is 18.1 inches; the average gross merchantable log contains 81 bf; the total gross volume is approximately 10,531 MBF; and 95% recovery is expected. The Right-of-Way volume is based on a 100% cruise for estimating the board foot volume of trees.

CUTTING AREA: Eight (8) units totaling approximately three hundred fifty-eight (358) acres shall be partial cut. In addition, approximately two (2) 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.

NESTUCCA BYWAY PROJECT: There is an ongoing construction project on the Nestucca Byway that may cause increased traffic at times and has some potential for short term closures or delays on the 4-7-27 (Bald Mountain) Road.

CUTTING DIAMETER LIMITS (CDL): This timber sale has cut diameter limits in stands eighty (80) years old and older. They range from twenty-five (25) inches to thirty-five (35) inches. Unit specific diameter limits are available upon request. If needed for safety or operational purposes, the authorized officer may approve them for cutting, but they shall remain on site and will not be sold to the purchaser.

SPECIAL ATTENTION ITEMS:

- Yellow painted trees within boundaries of the road right-of-way areas (Sec. 41.e.)
- Nestucca OHV Trail requirements (Sec. 42.j, 42.x., and 42.kk.)
- Marbled Murrelet Season Restriction Areas (Sec. 42.p.)
- Requirements/restrictions related to the 4-7-27 (Bald Mountain) Road (Sec. 42.f – 42.i. and 42.q.)
- Creation of Coarse Woody Debris (Sec. 42.mm.)

OPTIONAL CONTRIBUTION (Sec. 42.nn.): The Purchaser will have the option of performing Coarse Woody Debris or contributing fifty-four thousand six hundred ninety-nine dollars and 52/100 dollars (\$54,699.52) in lieu thereof. The option must be declared *prior* to contract execution.

LOCATION: The contract area is located approximately sixteen (16) air miles west of Carlton, Oregon. Starting on Highway 47 in Carlton, turn west onto Meadow Lake Road, then turn south onto Bald Mountain Access Road. Follow Bald Mountain Access Road approximately eight and seven-tenths (8.7) miles to the 4-7-1.1 Road in T. 4S. R. 7W, Section 1 W.M., then consult a project location map.

ACCESS AND ROAD MAINTENANCE: Access is provided by Bureau of Land Management (BLM) and Oregon State Department of Forestry (ODF) controlled roads. All roads (except Road 3-6-13.0 (Nestucca River Access Road), 4-7-22.0 (Bible Creek Road), 4-7-27.0 (Bald Mountain Road), and 4-7-1.1 (0.000 – 0.010) used in conjunction with this sale will be maintained by the Purchaser. Purchaser will be required to pay a rock wear obligation of nine thousand one hundred eighty-eight and 94/100 dollars (\$9,188.94) to the Government and spread **670 CY** crushed rock on all (BLM) Purchaser maintained roads for maintenance.

BLM controlled road 4-7-22.0 (Bible Creek Road), 4-7-27 (Bald Mountain Access Road), 3-6-13.0 (Nestucca Access Road), and 4-7-1.1 (0.000 – 0.010) used in conjunction with this sale will be maintained by BLM and will require payment of a road maintenance fee by the Purchaser to the Government in the amount of twenty-eight thousand seven hundred forty-five and 29/100 dollars (\$28,745.29) for the appraised haul route towards Willamina, OR for Douglas-fir and Tillamook, OR (via Bible Creek/Nestucca Access Roads) for Hemlock and Alder.

In use of Oregon State Department of Forestry (ODF) controlled roads, under Cooperative Right-of-Way Agreement (OR056542) and as shown on Exhibit E, the Purchaser will be required to enter into a license agreement which requires: (a) Purchaser maintenance of all ODF controlled roads, (b) Purchaser pay a rockwear fee of Thirty-seven and 26/100 dollars (\$37.26), (c) The Purchaser agrees to purchase 4.8 MBF merchantable timber @ \$355.89/MBF, which equals One Thousand Seven Hundred Eight and 27/100 dollars (\$1,708.27), for the removal of timber in right-of-ways, and (d) Purchaser provide proof of insurance with limits of \$1,000,000/

\$1,000,000/ \$1,000,000 and a performance bond of \$1,000. Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.

All Rockwear fees and BLM Maintenance fees have been calculated using estimated timber volumes. Additional fees for road rockwear and BLM Maintenance 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 seasonal operations. It shall also include the spreading of **10 CY** Pit-Run rock on ODF 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 Engineers at the Tillamook Field Office for more detailed information.

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

1. **New Road Construction:**

Road Spur A: 234 feet, 14-foot subgrade, Natural surfacing, Landing Construction.

Road Spur B: 220 feet, 14-foot subgrade, Natural surfacing, Landing Construction.

Road Spur C: 885 feet, 14-foot subgrade, Natural surfacing, Waste Area Construction, Turnaround and Landing Construction.

Road Spur D: 910 feet, 14-foot subgrade, Natural surfacing, Turnaround and Landing Construction.

Road Spur E: 645 feet, 14-foot subgrade, Natural surfacing, Culvert Installation, Spread/Place Rock types and quantities as directed in rock sheets (over culvert installation), Landing Construction.

Road Spur G: 142 feet, 14-foot subgrade, Natural surfacing, Waste Area Construction, Landing Construction.

Road Spur H (Sta. 7+34 – 9+20): 186 feet, 14-foot subgrade, Natural surfacing, Turnaround and Landing Construction.

Road Spur I: 287 feet, 14-foot subgrade, Natural surfacing, Culvert Installation, Spread/Place Rock types and quantities as directed in rock sheets (over culvert installation), Landing Construction.

Road Spur J: 320 feet, 14-foot subgrade, Natural surfacing, Culvert Installation, Spread/Place Rock types and quantities as directed in rock sheets (over culvert installation), Landing Construction.

4-7-10.4: 513 feet, 14-foot subgrade, Natural surfacing, Landing Construction.

2. **Renovation:**

Road Spur F: 472 feet, Blade and Compact Surface, Replace Culvert as marked in Field, Install Inlet Marker as directed by Authorized Officer, Construct Landing, Clear and Grub, and Spread/Place Rock types and quantities as directed in rock sheets.

Road Spur H (Sta. 0+00 – 7+34): 734 feet, Blade and Compact Surface, Remove Existing Waterbars and Barrier, Start Clearing and Grubbing, and Spread/Place Rock types and quantities as directed in rock sheets.

- Road 4-7-1.8: 28+10 Stations, Blade and Compact Surface, Start Clearing and Grubbing (trees with yellow paint within the right-of-way are to be cut and left outside of right-of-way), and Spread/Place Rock types and quantities as directed in rock sheets, Turnaround Construction.
- Road 4-7-1.12: 12+07 Stations, Blade and Compact Surface, Clearing and Grubbing, Turnaround and Landing Construction.
- Road 4-7-9.1: 8+85 Stations, Blade and Compact Surface, Remove Existing Waterbars and Barrier, Clean Culverts, Install Culverts as marked in Field, Install inlet markers on culverts marked in field and directed by Authorized Officer, Clearing and Grubbing, Ditchline Re-establishment by bunching and hauling, Construct Turnaround and Waste area as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-10.0: 0.146 miles, Blade and Compact, Clean Culverts, Install Culvert as marked in Field, Install Inlet Marker on new culvert as directed by Authorized Officer, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing, Brushing, Construct Turnaround and Waste Area as marked in field, Widen Intersection with 4-7-10.1 as marked, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-10.1: 0.372 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install and Replace Culverts and downspouts as marked in field, Install Inlet Markers as marked in field, Some Clearing and Grubbing, Brushing, Ditchline Re-establishment by bunching and hauling, Construct a Turnaround, Landing, and Waste Area as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-10.3: 0.281 miles, Blade and Compact Surface, Replace Culvert as marked in Field. Some Clearing and Grubbing, Construct Turnaround as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Roads 4-7-10.5: 5+65 Stations, Blade and Compact Surface, Spread a 9" Lift of Pit-Run Base capped with a 4" Lift Crushed Rock, Install Culverts as marked in Field, Ditchline Re-establishment, Heavy Clearing and Grubbing, Construct Lead-off ditch for culvert outlet as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-11.0: 0.808 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install and Replace Culverts (one is perforated for Free draining fill and one is for OHV trail access) as marked in Field, Install inlet markers on culverts marked in field and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing, Remove Log Fill/Cribbing and Construct Free Draining Fill, Construct a 2'x 2' ditchline armored with Pit-Run as marked, Construct Turnaround and Waste Area as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-11.1: 0.636 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install and Replace Culverts (two are for OHV trail access and four are in larger fills) as marked in Field, Install Inlet Markers on culverts marked in field and directed by Authorized Officer, Construct five sediment catch basins with straw bales as marked and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing, Construct Turnarounds and Waste Areas as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-11.4: 0.220 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install inlet markers on culverts marked in field and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing (trees with yellow paint within the right-of-way are to be cut and left outside of right-of-way), Construct

Landing as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.

- Road 4-7-11.5: 0.144 miles, Blade and Compact Surface, Remove Existing Waterbars and Barrier, Clean Culverts, Install Culvert as marked in Field, Install inlet markers on culverts marked in field and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing (trees with yellow paint within the right-of-way are to be cut and left outside of right-of-way), Construct a Turnaround and Waste Area as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-11.7: 0.320 miles, Blade and Compact Surface, Remove Existing Waterbars, Install Culvert as marked in Field, Install Inlet Marker on culvert as directed by Authorized Officer, Brushing, Some Clearing and Grubbing, Construct Turnarounds and Waste Area as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-11.8: 6+97 Stations, Blade and Compact Surface, Install Culvert as marked in Field, Install inlet marker on culvert as directed by Authorized Officer, Construct Barrier around culvert inlet to keep OHV traffic out, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-15.0: 1.811 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install and Replace Culverts (two are for OHV trail access and one is in larger fill) and downspouts as marked in Field, Install Inlet Markers on culverts marked in field and directed by Authorized Officer, Construct one sediment catch basin with straw bale as marked and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling (some ripping may be required on portions of ditchline), Some Clearing and Grubbing (trees with yellow paint within the right-of-way are to be cut and left outside of right-of-way), Construct a Loaded Truck Turnaround and Waste Areas as marked in field, Remove Log Cribbing and Construct Stabilization wall to widen road, Block Access to Rogue Trails as directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-15.2: 3.445 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Install and Replace Culverts (four are for OHV trail access, one is across adjacent road, and six are in larger fills) and downspouts as marked in Field, Install inlet markers on culverts marked in field and directed by Authorized Officer, Construct five sediment catch basins with straw bales as marked and directed by Authorized Officer, Brushing, Ditchline Re-establishment by bunching and hauling, Some Clearing and Grubbing, Remove Large Stumps in ditchline as directed, Construct a 2'x 2' ditchline protected from OHV traffic with Boulder placement as marked in field and directed by Authorized Officer, Widen Road for width as marked, Construct Turnarounds, Landing, and Waste Areas as marked in field and directed by Authorized Officer, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-15.6: 0.235 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Replace Culvert and downspout as marked in field, Install Inlet Markers as marked in field, Some Clearing and Grubbing, Brushing, Ditchline Re-establishment by bunching and hauling, Construct a Turnaround and Drivable Waterbar as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.
- Road 4-7-15.7: 0.879 miles, Blade and Compact Surface, Remove Existing Waterbars, Clean Culverts, Replace and Install Culverts and downspouts as marked in field, Install Inlet Markers as marked in field, Construct two sediment catch basins with straw bales as marked and directed by Authorized Officer, Some Clearing and Grubbing, Brushing, Ditchline Re-establishment by bunching and hauling, Construct a Turnaround, Waste Area, and Landing as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.

Road 4-7-16.0: 0.036 miles, Blade and Compact Surface, Some Clearing and Grubbing, Brushing, Ditchline Re-establishment by bunching and hauling, Construct a Landing as marked in field, and Spread/Place Rock types and quantities as directed in rock sheets.

3. Estimated Quantities:

a. Clearing, Grubbing, and Brushing:

19.5 acres of Clearing and Grubbing (new construction and renovation)

9.052 miles brushing

b. Culverts:

2,374 feet of 18 inch Corrugated Plastic Pipe (CPP) – Type S

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

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

30 feet of 24 inch 16 gage Aluminized Steel Perforated Pipe (CMP)

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

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

284 feet of 42 inch 14 gage Aluminized Steel Pipe (CMP)

Neoprene gaskets and Hugger Bands required on all 42” Pipes.

94 metal “T-Post” Inlet Markers

c. Aggregate & Asphalt Material:

<u>Quantity</u>	<u>Description</u>
2,265 cubic yards	1-1/2” minus crushed rock – construction rock
1,914 cubic yards	Pit-Run –construction rock
120 cubic yards	1-1/2”- 3/4” Drain Rock – construction rock
1,270 cubic yards	1-1/2” minus crushed rock -- Culvert bedding material
670 cubic yards	1-1/2” minus crushed rock – Maintenance rock
10 cubic yards	Pit-Run –Maintenance rock
380 cubic yards	Riprap – (160 CY Class 3 & 220 CY Class 5)

Rock Source: Commercial

OTHER:

Compaction of all final subgrades will be required.

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

All natural surface roads will be water barred and blocked at the end of seasonal operations.

Roads 4-7-1.12, 4-7-10.4, 4-7-11.8 (0+45 – 6+97), Spur A, Spur B, Spur C, Spur D, Spur E, Spur G, Spur H, Spur I, Spur J will be subsoiled to a depth of 18 inches, culverts removed, slash spread over road prism, water barred & blocked upon completion of logging. Clearing debris shall be placed on and around the barriers so as to prevent further use of the road by vehicles. The 4-7-9.1, 4-7-11.5, and 4-7-11.8 (0+00 – 0+45) shall be decommissioned as described above (but without the subsoiling). The roads: 4-7-1.8, 4-7-10.0, 4-7-10.1, 4-7-10.3, 4-7-10.5, 4-7-11.0, 4-7-11.1, 4-7-11.4, 4-7-11.7, 4-7-15.0, 4-7-15.2, 4-7-15.6, 4-7-15.7, 4-7-16.0, and Spur F will be stabilized by installing drivable waterbars.

Roads that utilized portions of Nestucca OHV trails are to be decommissioned in such a fashion as to preserve the trails, trail signs, access to the trails, and drainage as directed by the Authorized Officer.

Road segments that are in the Marbled Murrelet Seasonal Restriction Areas (shown on Exhibit C) shall have no activity except haul, between April 1 and August 5, both days inclusive, unless otherwise approved by the Authorized Officer.

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, Sec. 5, T. 3 S., R. 6 W., WM.

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	5	16	1	16	1	16	1	16	1	16
Ground-Based Yarding & Harvesting																									
Cable Yarding and Haul from Dry Season Haul Routes																									
Cable Yarding and Haul From All Season Haul Routes																									
Road Construction, Renovation & Decommissioning																									
In-Stream Activities																									
Marbled Murrelet Seasonal Restriction Areas (as shown on Exhibit C)																									

Dates are approximate – Restrictions would be dependent on actual weather conditions (except for Marbled Murrelet Seasonal Restriction Areas).

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 trees other than Douglas-fir, in the Partial Cut Areas shown on Exhibit A.
- d. 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.
- e. Trees felled within road rights-of-way, which are marked with yellow paint above and below stump height shall remain on site and scattered outside of the road prism, and are not included in the timber sale.

Sec. 42. Special Provisions

LOGGING

- a. Before beginning operations on the Contract Area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date he plans 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 he intends to cease operations for any period of seven (7) or more days.
- b. Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer 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.
- c. 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.

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

e. 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.

f. During logging operations, the Purchaser shall keep Road 4-7-27 (Bald Mountain Road), where it passes through the contract area, clear of trees, rock, dirt, and other debris resulting from timber harvest operations. The road shall not be blocked by such operations for more than thirty (30) minutes at a time unless otherwise approved by the Authorized Officer.

g. The Purchaser shall provide two (2) flaggers to control traffic on Road 4-7-27 (Bald Mountain Road), where it passes through the sale area, whenever felling within two (2) tree lengths of the road, bucking, and yarding operations are in progress in that area.

h. All trees designated for cutting within the Sale Areas shown on Exhibit A that are within fifty (50) feet of Road 4-7-27 (Bald Mountain Road), shall be cut so that the resulting stumps shall not be higher than (8) inches measured from the ground on the uphill side of the trees.

i. Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures, or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

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

j. Once logging operations have been completed, the Purchaser shall restore all designated OHV Trails within the Upper Nestucca OHV Trail System shown on Exhibit A, that were affected by the logging operation. Restoration shall include clearing all logging debris over one (1) inch diameter at the large end and repairing any damage that occurred as a result of the logging operation. This work shall be completed each operating season before the fall wet season begins, as designated by the Authorized Officer.

k. At all landings in the sale areas shown on Exhibit A, all logs more than six (6) inches in diameter at the small end and exceeding six (6) feet in length, except logs sold and removed from the sale area, shall be decked at a location determined by the Authorized Officer.

l. In the Partial Cut Area - Skyline 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. The rigging of tail or lift trees, intermediate supports and use of tail holds outside the Partial Cut Areas shall be required where necessary to meet this requirement. Skyline corridors would generally not exceed twelve (12) feet in width and would be located at least one hundred fifty (150) feet apart at one end of the yarding area. If the skyline must pass through a no-harvest buffer, full suspension will be required within the no-harvest buffer and the skyline would remain stationary after the initial elevation. If trees are cut within the no harvest buffer for operational purposes, they would remain on site.

m. In the Partial Cut Area - Ground Based shown on Exhibit A, all yarding shall be done by equipment operated entirely on designated skid trails approved by the Authorized Officer. The area composed of skid trails and landings shall not exceed twelve (12) percent of the total ground based yarding area. Generally, skid trails would not exceed twelve (12) feet in width and be spaced no closer than one hundred fifty (150) feet apart. 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 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. Existing skid trails will be used to the extent feasible and will generally not exceed twelve (12) feet in width. Skidding shall be done so that the leading end of the log is lifted fully off the ground. Ground based skidding equipment will not be permitted to leave approved skid trails to retrieve logs, but must either pull a winch line to the logs or work in conjunction with specialized equipment described below. 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.

Additionally, the following conditions apply to ground based yarding:

1. Specialized equipment may be used for felling/harvesting if:
 - a. It is boom mounted with a minimum reach of twenty (20) feet.
 - b. It is track propelled and has a static ground pressure rating of eight (8) psi or less.
 - c. To the extent possible, it operates on existing disturbed trails or on slash mats with a minimum number of passes necessary to process the timber.
 - d. Harvester trails generally do not exceed fifteen (15) feet in width and are spaced at least fifty (50) feet apart.
2. A forwarder may be used if:
 - a. It has a static ground pressure of eight (8) psi or less.
 - b. Forwarder trail locations are approved by the Authorized Officer prior to any operations, and generally do not exceed fifteen (15) feet in width.

- c. When leaving multi-pass trails to retrieve logs, the machine proceeds over a slash mat when possible and is limited to the minimum number of passes necessary to retrieve the logs.
- d. Trails that are used multiple times will be considered skid trails and treated as such.

n. 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 Section 41 of the contract or any tree that exceeds 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 Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.

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.

o. 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 Section 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, 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

p. No Activities, except haul, shall be conducted on roads, OHV trails, or in units within the Marbled Murrelet Seasonal Restriction Areas as shown on Exhibit C between April 1 and August 5, both days inclusive, unless otherwise approved by the Authorized Officer.

q. No hauling of timber, rock, or large equipment on the 4-7-27 (Bald Mountain) Road shall occur on weekends between Memorial Day and Labor Day weekends, both weekends inclusive, unless otherwise approved by the Authorized Officer.

r. No ground based yarding shall be conducted in the Partial Cut Areas shown on Exhibit A between October 16 of one calendar year and May 31 of the following calendar year, both days inclusive. If conditions are sufficiently dry, as determined by the Authorized Officer, some of these activities may be allowed during the seasonal restriction.

s. No cable yarding or haul except from Roads 4-7-11.1, 4-7-11.4, 4-7-11.5, 4-7-15.0, and 4-7-15.2 in the Partial Cut Areas shown on Exhibit A, shall be conducted between October 16 of one calendar year and May 31 of the following calendar year, both days inclusive. If conditions are sufficiently dry, as determined by the Authorized Officer, some of these activities may be allowed during the seasonal restriction.

t. No road renovation, road construction, road decommissioning/stabilization, sub-soiling, or road maintenance shown on Exhibits C, D, or E shall be conducted between October 16 of one calendar year and May 31 of the following calendar year, both days inclusive. If conditions are sufficiently dry, as determined by the Authorized Officer, some of these activities may be allowed during the seasonal restriction.

u. No work required in live streams (culvert replacement or removal) shall be conducted between September 16 of one calendar year and June 30 of the following calendar year, both days inclusive.

ROAD CONSTRUCTION, IMPROVEMENT, RENOVATION, MAINTENANCE AND USE

v. The Purchaser shall construct natural surfaced roads: 4-7-10.4, Spur A, Spur B, Spur C, Spur D, Spur E, Spur G, Spur H (7+34 – 9+20), Spur I, and Spur J. The Purchaser shall renovate natural surfaced roads: 4-7-1.12 and Spur H (0+00 – 7+34). The Purchaser shall renovate surfaced roads: 4-7-1.8, 4-7-9.1, 4-7-10.0, 4-7-10.1, 4-7-10.3, 4-7-10.5, 4-7-11.0, 4-7-11.1, 4-7-11.4, 4-7-11.5, 4-7-11.7, 4-7-11.8 (0+00 – 0+45), 4-7-15.0, 4-7-15.2, 4-7-15.6, 4-7-15.7, 4-7-16.0, and Spur E. Construction and renovation shall be done in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.

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

x. The Purchaser shall decommission 4-7-1.12, 4-7-10.4, 4-7-11.8 (Sta. 0+45 – 6+97), Spur A, Spur B, Spur C, Spur D, Spur E, Spur G, Spur H, Spur I, and Spur J, as shown on Exhibit C, by subsoiling, removing culverts, installing non-drivable water bars, scattering slash, and blocking. Purchaser shall decommission roads 4-7-9.1, 4-7-11.5, and 4-7-11.8 (Sta. 0+00 – 0+45), as shown on Exhibit C, by removing culverts, installing non-drivable water bars, scattering slash, and blocking. Purchaser shall stabilize roads 4-7-1.8, 4-7-10.0, 4-7-10.1, 4-7-10.3, 4-7-10.5, 4-7-11.0, 4-7-11.1, 4-7-11.4, 4-7-11.7, 4-7-15.0, 4-7-15.2, 4-7-15.6, 4-7-15.7, 4-7-16.0, and Spur F, as shown on Exhibit C, by installing drivable water bars. 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. The decommissioning of 4-7-1.8, 4-7-1.12, 4-7-11.8, Spur D, Spur F, and Spur H (0+00 – 7+34), as shown on Exhibit C, is to be accomplished in such a manner as to preserve Nestucca OHV trails shown on Exhibit A, trail signs, trail access, and drainage on and along trails, as directed by the Authorized Officer. Decommissioning and stabilization shall be completed within thirty (30) days of completion of yarding and hauling operations on that road.

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

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type	Maintenance Responsibility
Spur A	0.044	BLM	Natural	Purchaser
Spur B	0.042	BLM	Natural	Purchaser
Spur C	0.168	BLM	Natural	Purchaser
Spur D	0.172	BLM	Natural	Purchaser
Spur E	0.122	BLM	Natural	Purchaser
Spur F	0.089	BLM	Rocked	Purchaser
Spur G	0.027	BLM	Natural	Purchaser
Spur H	0.174	BLM	Natural	Purchaser
Spur I	0.054	BLM	Natural	Purchaser
Spur J	0.061	BLM	Natural	Purchaser
4-7-1.1	0.010	BLM	Paved	BLM
4-7-1.8	0.532	BLM	Rocked	Purchaser
4-7-1.12	0.229	BLM	Natural	Purchaser
4-7-9.1	0.168	BLM	Rocked	Purchaser
*4-7-10.0	0.146	BLM	Rocked	Purchaser
4-7-10.1	0.372	BLM	Rocked	Purchaser
4-7-10.4 (0+65 – 4+73)	0.077	BLM	Natural	Purchaser
*4-7-10.5	0.107	BLM	Rocked	Purchaser
4-7-11.0	0.808	BLM	Rocked	Purchaser
*4-7-11.1	0.636	BLM	Rocked	Purchaser
4-7-11.4	0.220	BLM	Rocked	Purchaser
4-7-11.5	0.144	BLM	Rocked	Purchaser
4-7-11.7	0.320	BLM	Rocked	Purchaser

4-7-11.8 (Sta. 0+00 – 0+45)	0.009	BLM	Rocked	Purchaser
4-7-11.8 (sta.0+00 – 0+45)	0.123	BLM	Natural	Purchaser
*4-7-15.0	1.811	BLM	Rocked	Purchaser
*4-7-15.2	3.445	BLM	Rocked	Purchaser
4-7-15.6	0.235	BLM	Rocked	Purchaser
4-7-15.7	0.879	BLM	Rocked	Purchaser
4-7-16.0	0.036	BLM	Rocked	Purchaser
4-7-22.0 (Bible Cr)	5.190	BLM	Paved	BLM
4-7-27 seg. x-gg) (Bald Mtn. Access Rd.)	5.699	BLM	Paved	BLM
3-6-13.0 seg. a (Nestucca Access Rd.)	1.020	BLM	Paved	BLM

*- Merchantable timber removed off of these BLM Controlled Roads (but on ODF land) shall be Purchased from ODF prior to removal.

z. The Purchaser shall pay the Government a road maintenance fee of twenty-eight thousand seven hundred forty-five and 29/100 dollars (\$28,745.29) and rockwear fee of nine thousand one hundred eighty-eight and 94/100 dollars (\$9,188.94) for transportation of timber included in this contract price over said roads. The above maintenance fee is for the use of twenty (20) miles of road or less. If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.

aa. The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, and deemed as Purchaser Maintenance in Section 42.y. and 42.bb. of this contract, which is attached hereto and made a part thereof. Purchaser shall spread **670** cubic yards of spot rock on BLM roads and **10** cubic yards of spot rock on ODF timberlands roads used for this timber sale, as directed by Authorized Officer as part of maintenance requirements.

bb. In the use of the roads listed below and shown on Exhibit E, the Purchaser shall comply with the conditions of the Cooperative Right-of-Way Agreement (OR056542), between the State of Oregon and the United States, dated April 19, 1960, which requires that the Purchaser enter into a license agreement with the Oregon State Department of Forestry (ODF). 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) No road use fee obligation. 2) Payment to Oregon State Department of Forestry a rockwear fee obligation of thirty-seven and 26/100 dollars (\$37.26). Rockwear fees have been calculated using estimated timber volumes. 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. 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 a part hereof. Purchaser shall spread Pit-Run rock on roads as directed by Authorized Officer as part of maintenance requirements. 4) The Purchaser agrees to purchase 4.8 MBF merchantable timber @ \$355.89/MBF, which equals One Thousand Seven Hundred Eight and 27/100 dollars (\$1,708.27), for the removal of timber in right-of-ways listed below. 5) Default by the Purchaser of said Right-of-Way and Road Use Agreement or 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 \$1,000.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type	Maintenance Responsibility
4-7-10.3	0.281	ODF	Rocked	Purchaser
4-7-10.4 (0+00 – 0+65)	0.012	ODF	Natural	Purchaser

ENVIRONMENTAL PROTECTION

cc. 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.

dd. The Purchaser shall post "Closed" signs at both ends of all existing OHV Trails and OHV Staging Areas within or near harvest units during active harvest operations. The Purchaser shall remove all logging debris and repair any damage that occurs to authorized OHV trails as a result of harvest activity, within ninety (90) days of completing harvest operations, as directed by the Authorized Officer.

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

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 the Standards and Guidelines or 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. other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
5. 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;
6. when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
7. species have been discovered 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, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
8. when, in order to 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, 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(h) 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 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 through survey and manage and/or protection buffer standards and guidelines 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 survey and manage and/or protection buffer standards and guidelines 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.

FIRE PREVENTION

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

gg. 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. 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. 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.

SLASHING AND LOPPING

hh. Slashing and lopping shall be completed on approximately two hundred thirteen (213) acres in the slashing and lopping areas shown on Exhibit F. All standing woody vegetation (brush), whips, and designated trees over one (1) foot in height and less than six (6) inches in diameter shall be felled (slashed). Designated trees to be slashed include red alder and bigleaf maple. All slashed material

and slash generated by the Purchaser's operations shall be lopped into six (6) foot or smaller lengths. Where *Phellinus weirii* is present Douglas-fir shall be slashed. Slash includes all woody material (brush, limbs, tops, unmerchantable stems less than six (6) inches in diameter, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. All western redcedar, western hemlock, and grand fir trees regardless of size shall be reserved and undamaged.

CONSTRUCTION AND COVERING OF MACHINE PILES

- ii. Pile and burn all slash on approximately ninety-six (96) acres that can be reached from designated skid trails in the machine piling areas shown on Exhibit F. Slash shall be piled by an excavator equipped with a hydraulic thumb. Finished piles shall be tight and free of earth.
 1. Slash includes all woody material (brush, limbs, tops, unmerchantable stems less than 6 inches in diameter, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
 2. Unmerchantable logs greater than eight (8) inches on the small end shall be left in place, or positioned so that they will not be burned.
 3. The total surface area of each pile shall be covered at least seventy-five percent (75%) with four (4) mil. (0.004) inch thick black plastic. Placement of the plastic shall start two (2) feet above the ground on the south and west sides of each pile and extend over the top and go three-quarters (3/4) the distance to the ground on the opposite north and east sides. Woody debris shall then be placed on top of the plastic so that both sides and the middle are held in place during strong wind conditions. If wood placed on top of the plastic isn't sufficient to hold the plastic down, the corners of the plastic shall be required to be tied down. The Purchaser is required to furnish the covering materials. Covering shall be completed as directed by the Authorized Officer.
 4. Cutting Areas shall be piled during the same season that they are logged.
 5. Machine piles shall be located as far as possible from green trees, snags, or unit boundaries to minimize damage.
 6. Machine piles shall be kept free of dirt and other non-wood debris and constructed as compactly as possible. There should be an adequate supply of finer fuels located within and under the covered area of the pile to ensure ignition of the larger fuels.

CONSTRUCTION AND COVERING OF LANDING PILES

- jj. Pile and burn landing slash within thirty (30) feet of the edge of each landing, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than three

(3) feet in length shall be piled within fifteen (15) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located 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 by securely covering each pile with .004 inch thick polyethylene plastic film at least 20 feet wide. Landing piles shall be 75 percent covered with the covering extending three-quarters 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.

1. Slash includes all woody material (brush, limbs, tops, unmerchantable stems less than 6 inches in diameter, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
2. Unmerchantable logs greater than eight (8) inches on the small end shall be left in place, or positioned so that they will not be burned.

SLASH PULLBACK

kk. Pull concentrations of slash back twenty-five (25) feet in areas that are adjacent to roads left open to the public and designated OHV Trails within the Upper Nestucca OHV Trail System, in the slash pullback areas shown on Exhibit F. Slash shall be pulled back and scattered.

1. Slash includes all woody material (brush, limbs, tops, unmerchantable stems less than 6 inches in diameter, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
2. Unmerchantable logs greater than eight (8) inches on the small end shall be left in place.

PRESCRIBED BURNING

ll. Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop-up assistance as required herein and measures required in Section 42(v). 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 and Burning Piles on Units:
 - a. One work leader(s) Firefighter Type 1 (FFT1) qualified according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1) to supervise crew and equipment operations, and to serve as Purchaser's representative.
 - b. Five-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, five (5) drip torches, one (1) power saw, and one (1) backpack pump, one (1) tool for each crew member.
 - c. The crew shall arrive on the project area with radios capable of inter-crew communications and communication with a BLM representative at a ratio of one (1) radio per every five (5) crew members.
 - d. All ignition personnel will be directly supervised by a BLM representative.
2. For Mop-up of Piles on Units:
 - a. One work leader(s) Firefighter Type 1 (FFT1) qualified according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1) to supervise crew and equipment operations, and to serve as Purchaser's representative.
 - b. Two-person crew Firefighter Type 2 (FFT2) qualified according to National Wildfire Coordination Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1, with one (1) power saw, one (1) backpack pump, and 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 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.

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

mm. In the Coarse Woody Debris Creation Units shown on Exhibit G, the Purchaser shall, upon completion of yarding, select and fall, top, high-girdle, or basal-girdle eight hundred seventy (870) standing live trees in accordance with Exhibit G. No adjustments of volume or value shall be made to meet these requirements.

CONTRIBUTIONS

nn. The Purchaser shall create coarse woody debris in accordance with Section 42.mm. 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 fifty-four thousand six hundred ninety-nine dollars and 52/100 dollars (\$54,699.52), 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. If the total contribution does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to the commencement of operations. If the total contribution exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments.

LOG EXPORT RESTRICTION

oo. 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 Section 10 of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one 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 10 inches, prior to the removal of timber from the contract area. All loads of 11 logs or more will have a minimum of 10 logs clearly and legibly branded on one end regardless of the diameter of the logs. All logs will be branded on loads of 10 logs or less. One end of all branded logs to be processed domestically will be marked with a 3 square inch spot of highway yellow paint. The Purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

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

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.

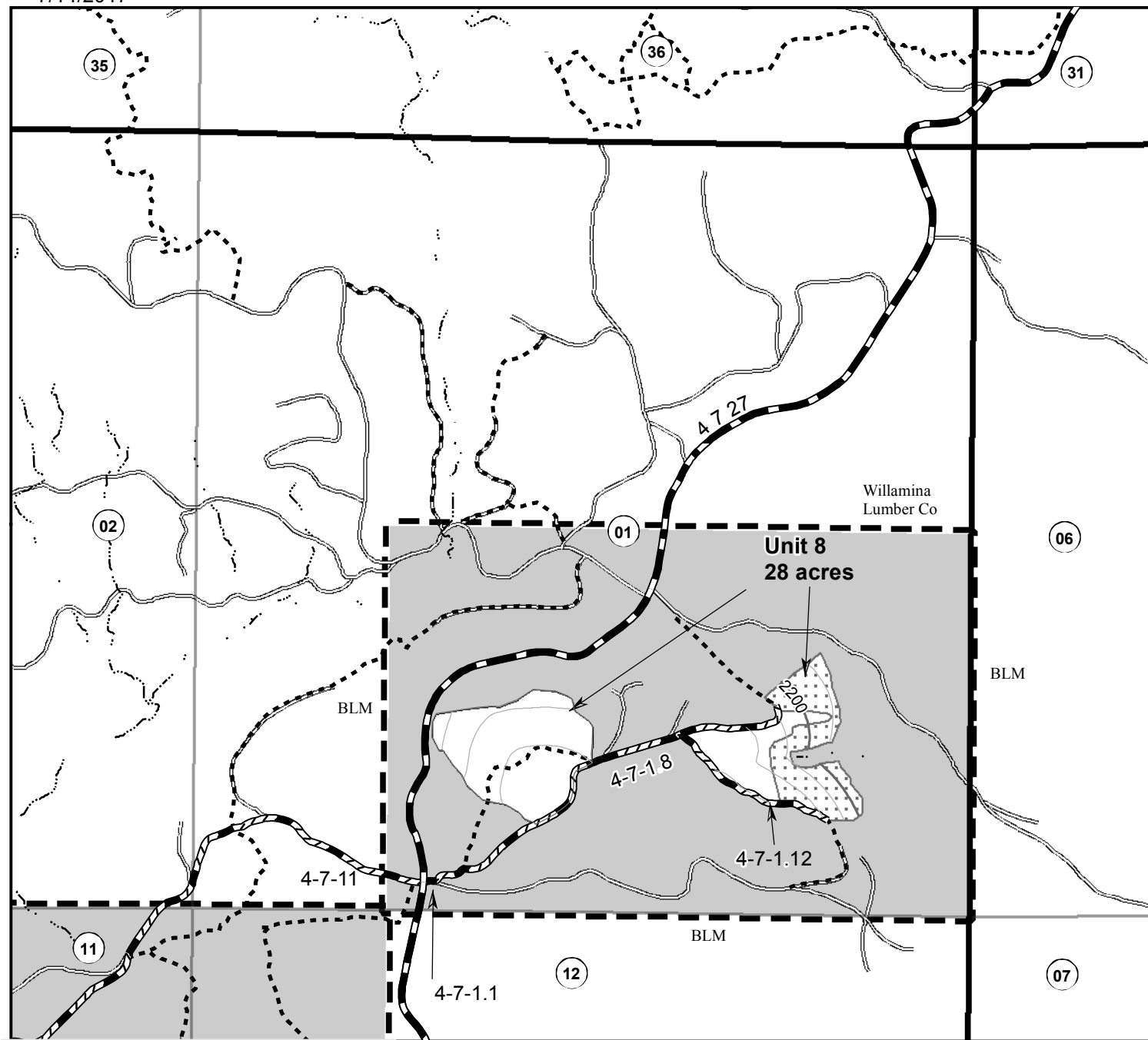


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit A
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7/14/2017










T. 4S. R. 7W, Section 1 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Partial Cut Area	358 Acres
Right-of-Way	2 Acres
Reserve Area	1440 Acres

0 500 1,000 2,000 3,000 Feet

Contour Interval: 40 feet

- | | |
|--|---|
|  Partial Cut Area - Ground-Based |  Road to be Improved |
|  Partial Cut Area - Skyline |  Bald Mountain Access Road |
|  Contract Area |  Existing Roads |
|  Reserve Area |  Upper Nestucca OHV Trail System |
|  Streams | |

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 or previously harvested patch cuts. Acres shown on Exhibit A for harvest area have been computed using a Trimble Geo 6000 GPS Unit.

Prepared By: csween

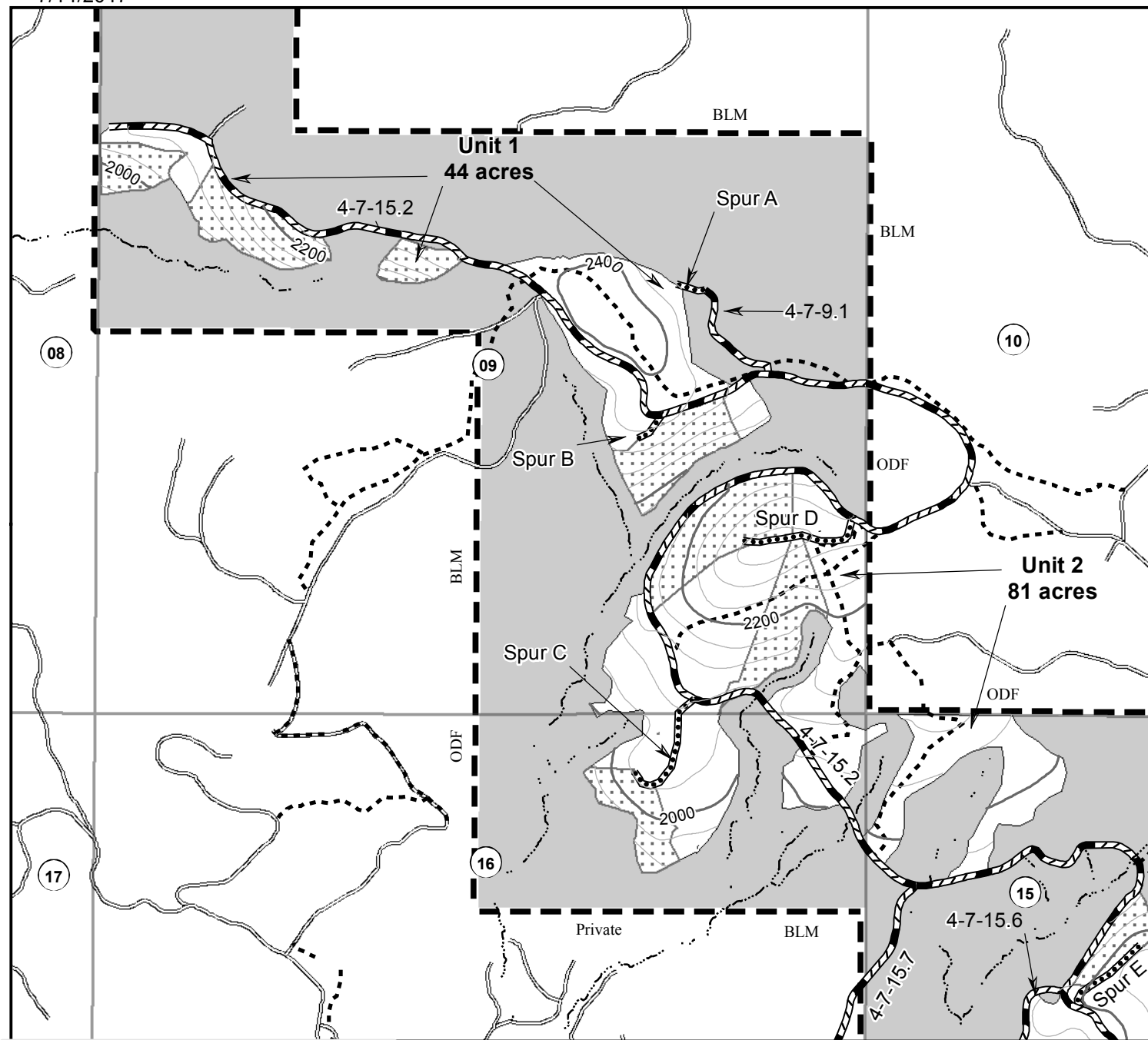


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit A
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7/14/2017

T. 4S. R. 7W, Section 9, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Partial Cut Area	358 Acres
Right-of-Way	2 Acres
Reserve Area	1440 Acres

0 500 1,000 2,000 3,000 Feet

Contour Interval: 40 feet

- | | |
|---------------------------------|---------------------------------|
| Partial Cut Area - Ground-Based | Road to be Constructed |
| Partial Cut Area - Skyline | Road to be Improved |
| Contract Area | Existing Roads |
| Reserve Area | Upper Nestucca OHV Trail System |
| Streams | |

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 or previously harvested patch cuts. Acres shown on Exhibit A for harvest area have been computed using a Trimble Geo 6000 GPS Unit.

Prepared By: csween

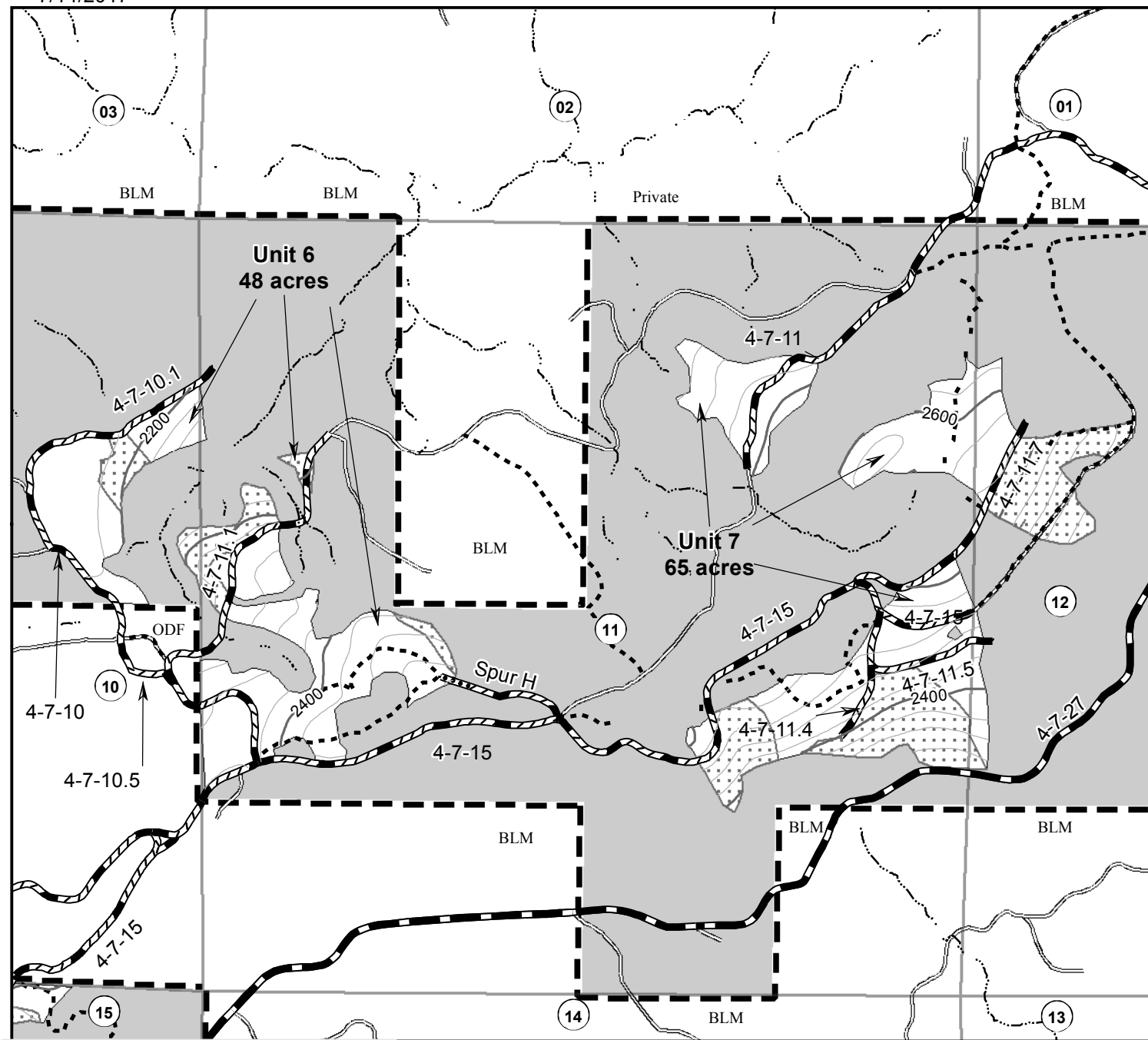


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit A
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7/14/2017

T. 4S. R. 7W, Section 10, 11 & 12 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Partial Cut Area	358 Acres
Right-of-Way	2 Acres
Reserve Area	1440 Acres

0 500 1,000 2,000 3,000 Feet

Contour Interval: 40 feet

- | | |
|---------------------------------|---------------------------------|
| Partial Cut Area - Ground-Based | Road to be Constructed |
| Partial Cut Area - Skyline | Road to be Improved |
| Contract Area | Bald Mountain Access Road |
| Reserve Area | Existing Roads |
| Streams | Upper Nestucca OHV Trail System |

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 or previously harvested patch cuts. Acres shown on Exhibit A for harvest area have been computed using a Trimble Geo 6000 GPS Unit.

Prepared By: csween

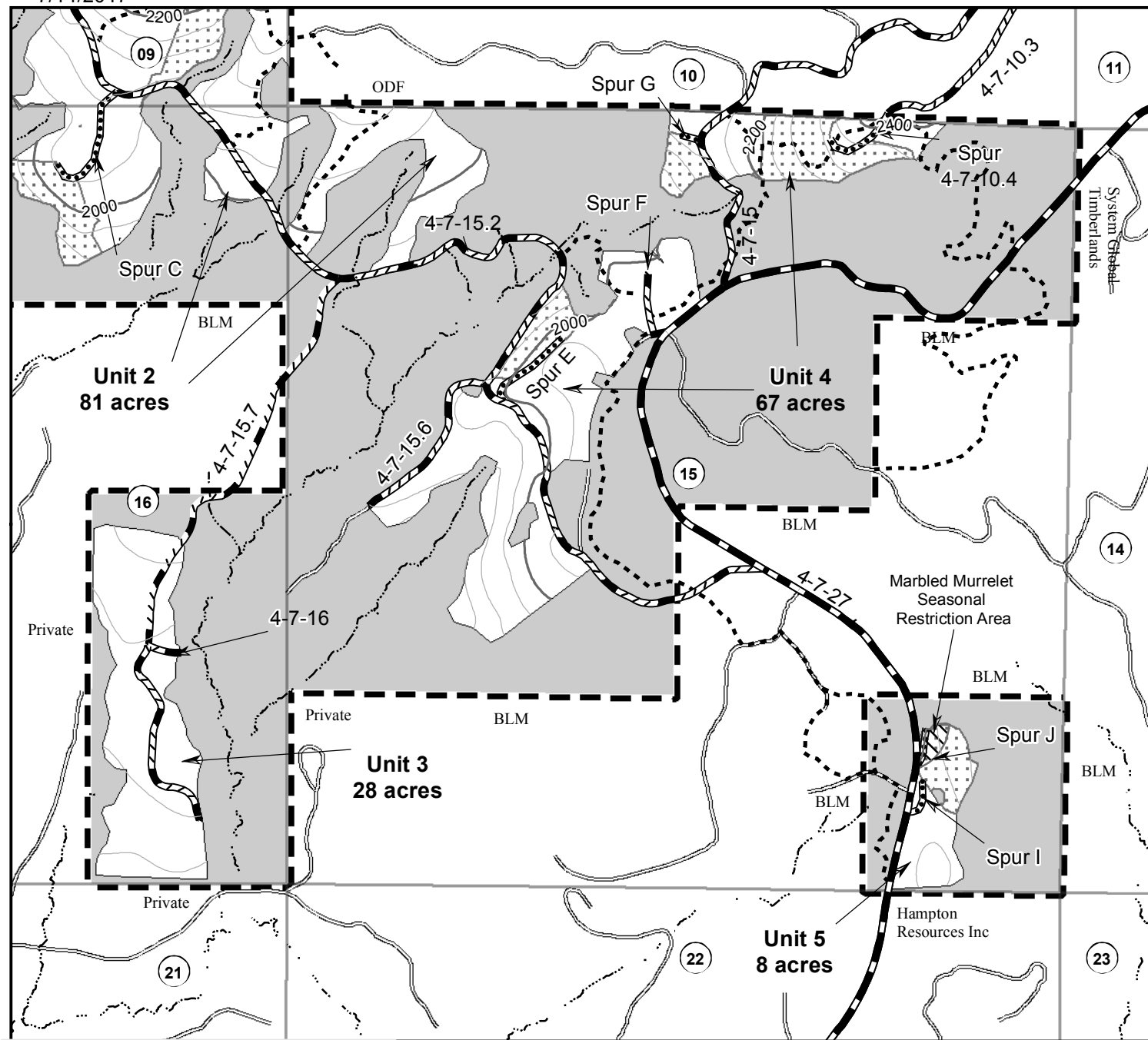


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
TIMBER SALE CONTRACT MAP

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit A
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7/14/2017

T. 4S. R. 7W, Section 9, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Partial Cut Area	358 Acres
Right-of-Way	2 Acres
Reserve Area	1440 Acres

0 500 1,000 2,000 3,000 Feet

Contour Interval: 40 feet

- | | | | |
|--|--|--|---------------------------------|
| | Partial Cut Area - Ground-Based | | Road to be Constructed |
| | Partial Cut Area - Skyline | | Road to be Improved |
| | Contract Area | | Bald Mountain Access Road |
| | Marbled Murrelet Seasonal Restriction Area | | Existing Roads |
| | Reserve Area | | Upper Nestucca OHV Trail System |
| | Streams | | |

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 or previously harvested patch cuts. Acres shown on Exhibit A for harvest area have been computed using a Trimble Geo 6000 GPS Unit.

Prepared By: csween

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract No.
ORN04-TS-2017.0404
Bell Tower

EXHIBIT B / PRE-SALE

5450-3

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	10,062.0 MBF	\$261.50	\$2,631,213.00
Red Alder	4.0 MBF	\$123.60	\$494.40
TOTALS	10,066.0 MBF		\$2,631,707.40

The apportionment of the total purchase price is as follows:

Unit 1

Douglas Fir	1,559.0 MBF	X	\$261.50	=	\$407,678.50
Total	1559.0 Mbf				\$407,678.50 ÷ 46.0 acres = \$8,862.58/Acre

Unit 2

Douglas Fir	2,011.0 MBF	X	\$261.50	=	\$525,876.50
Total	2011.0 Mbf				\$525,876.50 ÷ 81.0 acres = \$6,492.30/Acre

Unit 3

Douglas Fir	790.0 MBF	X	\$261.50	=	\$206,585.00
Total	790.0 Mbf				\$206,585.00 ÷ 28.0 acres = \$7,378.04/Acre

Unit 4

Douglas Fir	1,354.0 MBF	X	\$261.50	=	\$354,071.00
Total	1354.0 Mbf				\$354,071.00 ÷ 54.0 acres = \$6,556.87/Acre

Unit 5

Douglas Fir	226.0 MBF	X	\$261.50	=	\$59,099.00
Total	226.0 Mbf				\$59,099.00 ÷ 8.0 acres = \$7,387.38/Acre

Unit 6

Douglas Fir	1,058.0 MBF	X	\$261.50	=	\$276,667.00
Total	1058.0 Mbf				\$276,667.00 ÷ 48.0 acres = \$5,763.90/Acre

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract No.
ORN04-TS-2017.0404
Bell Tower

EXHIBIT B / PRE-SALE

5450-3

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 7

Douglas Fir	2,084.0 MBF	X	\$261.50	=	\$544,966.00
Total	2084.0 Mbf				\$544,966.00 ÷ 65.0 acres = \$8,384.09/Acre

Unit 8

Douglas Fir	790.0 MBF	X	\$261.50	=	\$206,585.00
Total	790.0 Mbf				\$206,585.00 ÷ 28.0 acres = \$7,378.04/Acre

Unit R/W

Douglas Fir	190.0 MBF	X	\$261.50	=	\$49,685.00
Red Alder	4.0 MBF	X	\$123.60	=	\$494.40
Total	194.0 Mbf				\$50,179.40 ÷ 2.0 acres = \$25,089.70/Acre

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
Spur A	0+00	2+34	2+34	3		14	0	10%	10%												New Construct. Construct Landing as marked (approx. 50 ft diameter).
Spur B	0+00	2+20	2+20	3		14	0	10%	10%												New Construct. Construct Landing as marked. (approx. 50 ft diameter).
Spur C	0+00	8+85	8+85	3		14	0	17%	17%												New Construct. Construct Turnaround, Waste Area, and Landing as marked (approx. 40 ft diameter).
Spur D	0+00	9+10	9+10	3		14	0	17%	17%												New Construct. Construct Turnaround and Landing (approx. 50 ft diameter).
Spur E	0+00	6+45	6+45	3		14	0	18%	18%												New Construct. Place 10 CY Crushed Spot Rock as marked. Spread 20 CY Pit-Run Base Rock as marked. Place 15 CY Crushed Rock as culvert bedding/backfill as marked. Install 1 culvert. Install metal inlet marker at inlet. Construct Landing as marked. (approx. 50 ft diameter).
Spur F	0+00	4+72	4+72	4		14	0	5%	5%				PRR	A				ASC	C		Renovation. Spread 50 CY crushed spot rock as marked and needed. Place 15 CY Pit-Run Base rock as marked. Place 10 CY crushed as culvert bedding/backfill. Replace 1 culvert. Install metal inlet marker at inlet. Construct Landing as marked (approx. 40 ft diameter).
Spur G	0+00	1+42	1+42	3		14	0	10%	10%												New Construct. Construct intersection to be accessed from both directions. Construct Landing as marked (approx. 50 ft diameter).
Spur H	0+00	7+34	7+34	3		14	0	17%	17%				PRR	A				ASC	C		Renovation. Spread 40 CY crushed spot rock as marked. Spread 80 CY Pit-Run Base rock as marked.
	7+34	9+20	1+86	3		14	0	10%	10%												New Construct. Construct Turnaround and Landing (approx. 40 ft diameter).
Spur I	0+00	2+87	2+87	3		14	0	5%	5%				PRR	A				ASC	C		New Construct. Spread 20 CY crushed spot rock as marked and needed. Place 40 CY Pit-Run Base rock as marked. Place 20 CY crushed as culvert bedding/backfill. Install 1 culvert. Construct Landing as marked (approx. 50 ft diameter).
Spur J	0+00	3+20	3+20	3		14	0	5%	5%				PRR	A				ASC	C		New Construct. Spread 20 CY crushed spot rock as marked and needed. Place 40 CY Pit-Run Base rock as marked. Place 20 CY crushed as culvert bedding/backfill. Install 1 culvert. Construct Landing as marked (approx. 40 ft diameter).

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. Extra subgrade widths
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

2. Backslopes

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

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

3. Surface type

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

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

5. Surfacing
Turnouts, curve widening and road approach aprons shall be surfaced.

6. Clearing width
See Section 200.

7. As posted and painted for Right-of-Way:

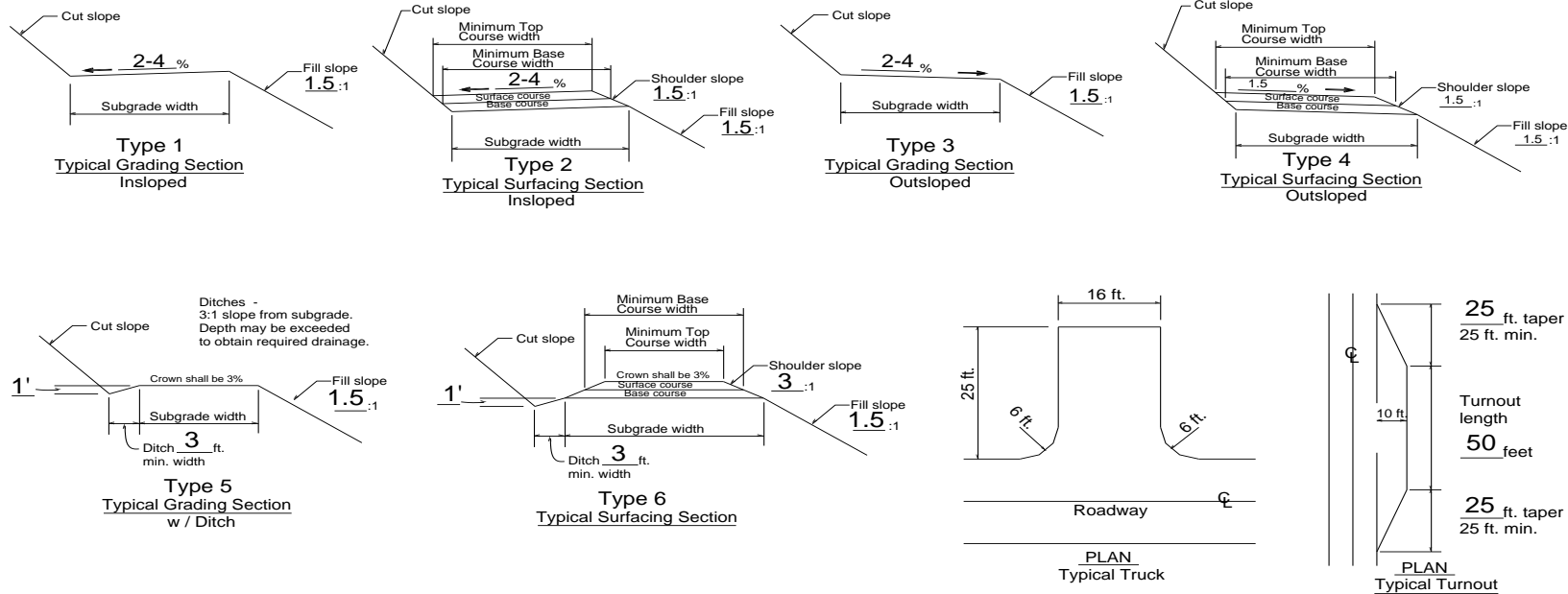
8. Drainage
See Culvert List

10. Compaction
See Sections 300 and 400

* Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
4-7-1.8	0+00	28+10	28+10	4		14	0											ASC	C		Renovation. Spread 50 CY Crushed Spot as marked and needed. Construct Turnaround as marked. Construct ditchouts and lead-off ditches, in through-cuts, as needed. Widen road (approx. 3 ft) to the right between Stations 25+00 - 28+10).
4-7-1.12	0+00	12+07	12+07	3		14	0														Renovation. Construct Turnaround and Landing (approx. 50 ft. diameter) as marked. Construct ditchouts and lead-off ditches, in through-cuts, as needed.
4-7-9.1	0+00	8+85	8+85	6		14	2						PRR	A				ASC	C		Renovation. Spread 40 CY Crushed Spot as marked and needed. Spread 20 CY Pit-Run Base Rock as marked. Place 20 CY Crushed Rock as Culvert Bedding/Backfill as marked. Widen road (approx 3 feet) for road and ditch width between Sta. 7+37 - 8+85 as directed. Re-establish ditchlines and haul material to WA as directed. Construct Turnaround @ Sta. 7+80 as marked. Install 2 culverts. Install metal inlet markers on all existing and installed culverts as needed. Construct ditchouts and lead-off ditches as needed.
4-7-10.0	0.000	0.146	0.146	6		14	2						PRR	A				ASC	C		Renovation. Spread 20 CY Crushed Spot Rock as marked and needed. Spread 10 CY Pit-Run Base Rock. Spread 20 CY Pit-Run Spot Rock as marked. Place 10 CY Crushed Rock as Culvert Bedding/Backfill as marked. Re-establish ditchlines and haul material to WA as directed. Construct ditchouts as needed. Install 1 culvert. Install metal inlet marker on new culvert. Widen to the left @ MP 0.144 for intersection turning radius. Construct Turnaround @ MP 0.089 as directed. Construct Waste Area @ MP 0.109 as directed.
4-7-10.1	0.000	0.372	0.372	6		14	2						PRR	A				ASC	C		Renovation. Spread 50 CY Crushed Spot Rock as marked and needed. Spread 30 CY Pit-Run Base Rock. Place 30 CY Crushed Rock as Culvert Bedding/Backfill as marked. Re-establish ditchlines and haul material to WA as directed. Construct ditchouts as needed. Install 2 culverts, replace 1 culvert, and install 2 downspouts. Install metal inlet markers on all culverts. Construct Turnaround @ MP 0.263 as directed. Construct Waste Area @ MP 0.106 as directed. Construct trench across existing road on left to allow ditch drainage @ MP 0.073. Construct Landing (approx. 50 ft diameter) as marked.
4-7-10.3	0.000	0.281	0.281	4		14	0						PRR	A				ASC	C		Renovation. Spread 100 CY Pit-Run Spot Rock as marked and needed. Place 15 CY Crushed Rock as Culvert Bedding/Backfill as marked. Construct ditchouts, in through-cuts, as needed. Install 1 culvert. No inlet marker to be installed. Construct Turnaround @ MP 0.272 as directed.



- *NOTES**
- Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)
 - Backslopes**

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

Note:
Full bench construction is required on side slopes exceeding 60%.
 - Surface type**

	Grading
PRR - Pit run rock	A - 3"
GRR - Grid rolled rock	B - 2"
SRN - Screened rock	C - 3" jaw run
JRR - Jaw run rock	
ABC - Aggr. base course	C - 1-1/2"
ASC - Aggr. surface course	D - 1"
WC - Wood chips	E - 3/4"
 - Turnouts**
Width - 10 ft. in addition to subgrade width, or as shown on the plans.
Located approximately as shown on the plans.
Intervisible and not more than 750ft. apart.
 - Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.
 - Clearing width**
See Section 200.
 - As posted and painted for Right-of-Way:**
 - Drainage**
See Culvert List
 - Compaction**
See Sections 300 and 400.
- * Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	SURFACING (*5)															Remarks
						ROAD WIDTH		GRADIANT		BASE COURSE					SURFACE COURSE						
						Subgrade	Ditch	Max. Favorable	Max. Adverse	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
4-7-10.4	0+00	5+13	5+13	3		14	0													New Construct. Construct Landing as marked (approx. 50 ft diameter).	
4-7-10.5	0+00	5+65	5+65	6		14	2			13'	9"	PRR	A	3	12'	4"	ASC	C	1	Heavy Renovation. Spread a 4" Lift Crushed Cap Rock over Base Rock (approx. 125 CY Crushed Rock) as directed. Spread a 9" Lift Pit-Run Base Rock (approx. 304 CY Pit-Run Base Rock) as directed. Place 30 CY Crushed Bedding/Backfill Rock as marked. Construct a lead-off ditch at culvert outlet to direct water away from road @ Sta. 1+82. Construct ditchouts as needed. Install 2 culverts. Install 1 Inlet marker as directed.	
4-7-11.0	0.000	0.808	0.808	6		14	2					PRR	A				ASC	C		Renovation. Spread 170 CY crushed Spot Rock as marked and needed. Spread 100 CY Pit-Run Spot/Base Rock as marked. Place 30 CY Pit-Run ditchline armor as marked. Place 105 CY Crushed Bedding/Backfill Rock as marked. Place 120 CY drain rock for french drain @ MP 0.562 as directed. Place 30 CY Class 3 RipRap as Fill Stabilization Wall between MP 0.561 - 0.563 as directed. Place 5 CY Class 3 RipRap as dissipater as marked. Place 210 SY non-woven fabric for free drain @ MP 0.562 as directed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct Lead-off ditches at culvert outlets as directed. Construct a extra large ditchline (armored with pit-run rock) between MP 0.057 - 0.076. Construct a waste area and Turnaround @ MP 0.808 as marked. Remove existing waterbars. Remove Log Cribbing between MP 0.561 - 0.563 as marked. Install 6 culverts (1 is a perforated pipe for the free draining fill and 1 is in existing ditchline for trail access) and replace 5 culverts. Install 11 Inlet markers as directed.	
4-7-11.1	0.000	0.636	0.636	6		14	2					PRR	A				ASC	C		Renovation. Spread 120 CY crushed Spot Rock as marked and needed. Spread 125 CY Pit-Run Spot/Base Rock as marked. Place 165 CY Crushed Bedding/Backfill Rock as marked. Place 60 CY Class 5 RipRap and 45 CY Class 3 RipRap as Fill Stabilization Wall/dissipater @ culvert outlets @ MP 0.305, 0.360, 0.506, and 0.515 as directed. Place 45 CY Class 3 RipRap as fill armor @ culvert inlet @ MP 0.305, 0.360, and 0.515 as directed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Construct turnouts as needed. Construct 5 sediment catch basins w/ straw bales in ditchline as marked and directed. Construct a waste area @ MP 0.401 as marked. Construct a Turnaround @ MP 0.414, 0.461, and 0.636 as marked. Remove existing waterbars. Install 3 culverts (2 are in existing ditchline for trail access) and replace 5 culverts (4 are in larger fills). Install 8 Inlet markers as directed.	
																				.	
4-7-11.4	0.000	0.220	0.220	6		14	2										ASC	C		Renovation. Spread 50 CY Crushed Spot Rock as marked and needed. Re-establish ditchline and haul material to WA. Construct ditchouts as needed. Install 2 metal inlet markers on all existing culverts as directed. Construct a landing (approx. 50 ft. diameter @ MP 0.220 by widening 5 feet as directed.	

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. **Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

2. **Backslopes**

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

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

3. **Surface type**

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

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

5. **Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.

6. **Clearing width**
See Section 200.

7. As posted and painted for Right-of-Way:

8. **Drainage**
See Culvert List

10. **Compaction**
See Sections 300 and 400

* Clearing Limits as posted on ground

150: ROAD PLAN AND DETAIL SHEET

Road Number	Start Station or Milepost	End Station or Milepost	Total Length	Typical Cross Section	Min. Curve Radius	ROAD WIDTH		GRADIENT		SURFACING (*5)										Remarks	
						Subgrade	Ditch	Max. Favorable	Max. Adverse	BASE COURSE					SURFACE COURSE						
										Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts	Min. Width	Comp. Depth	Surface Type (*3)	Grading Size (*3)	Number of Lifts		
4-7-11.5	0.000	0.144	0.144	6		14	2					PRR	A					ASC	C		Renovation. Spread 20 CY Crushed Spot Rock as marked and needed. Spread 10 CY Pit-Run Base Rock as marked. Place 10 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Construct turnaround @ MP 0.144 as marked. Construct a waste area @ MP 0.144 as directed. Install 1 culvert. Install metal inlet marker on culvert.
4-7-11.7	0.000	0.320	0.320	6		14	2					PRR	A					ASC	C		Renovation. Spread 30 CY Crushed Spot Rock as marked. Spread 15 CY Pit-Run Base Rock as marked. Place 10 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Construct ditchouts as needed. Construct turnarounds @ MP 0.153 & 0.283 as marked. Construct a waste area @ MP 0.320 as directed. Install 1 culvert. Install metal inlet marker on culvert.
4-7-11.8	0+00	0+45	0+45	6		14	2					PRR	A					ASC	C		Renovation. Spread 10 CY Crushed Spot Rock as marked. Spread 15 CY Pit-Run Base Rock as marked. Place 15 CY Crushed Bedding/Backfill Rock as marked. Re-establish ditchline and haul material to WA as directed. Wrap ditchline from the 4-7-11.4 into this ditchline. Install 1 culvert. Install metal inlet marker on culvert. Use soil/woody debris to protect catch basin from ATV traffic.
	0+45	6+97	6+52	3		14	0														Renovation. Construct ditchouts as needed in through-cuts.
4-7-15.0	0.000	1.811	1.811	6		14	2					PRR	A					ASC	C		Renovation. Spread 500 CY crushed Spot Rock as marked and needed. Spread 60 CY Pit-Run Spot Rock as marked. Spread 330 CY Pit-Run Base/Backfill Rock as marked. Place 280 CY Crushed Bedding/Backfill Rock as marked. Place 90 CY Class 5 RipRap as Fill Stabilization Wall/dissipater @ culvert outlets @ MP 0.122 and between MP 1.380 - 1.385 as directed. Place 20 CY Class 3 RipRap as dissipater @ culvert outlets @ MP 0.146, 0.340, 0.443, and 0.646 as marked. Re-establish ditchline and haul material to WA (Some ripping may be required between MP 1.119 - 1.459). Construct ditchouts and lead-ff ditches as needed. Construct turnouts as needed. Construct 1 sediment catch basin w/ straw bale in ditchline as marked. Construct waste areas @ MP 0.775, 1.582, and 1.725 as marked. Construct a Loaded Truck Turnaround @ MP 1.279 (utilizing intersection with 4-7-11.0) as marked. Remove existing waterbars. Remove log cribbing between a MP 1.380 - 1.385 as marked. Block access to rogue trails as directed. Remove stump and fill hole with rocky material @ MP 1.757. Widen road an additional 3 feet between MP 1.380 - 1.385, 1.551 - 1.565, and 1.757 - 1.764 as marked and directed. Install 21 culverts (2 are in existing ditchline for trail access), replace 2 culverts (1 is in larger fill), and Install 3 downspouts. Install 22 Inlet markers as directed.

Type 1
Typical Grading Section
Insloped

Type 2
Typical Surfacing Section
Insloped

Type 3
Typical Grading Section
Outsloped

Type 4
Typical Surfacing Section
Outsloped

Type 5
Typical Grading Section
w / Ditch

Type 6
Typical Surfacing Section

PLAN
Typical Truck

PLAN
Typical Turnout

***NOTES**

1. **Extra subgrade widths**
Add to each shoulder: 1 ft. for fills of 1-6 ft. and 2 ft. for fills over 6 ft. Widen the inside shoulder of curves as follow:
(See Road Plan Map, Exhibit C)

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

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

2. **Backslopes**

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

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

3. **Surface type**

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

(base course)
(surface course)

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

5. **Surfacing**
Turnouts, curve widening and road approach aprons shall be surfaced.

6. **Clearing width**
See Section **200**.

7. As posted and painted for Right-of-Way:

8. **Drainage**
See Culvert List

10. **Compaction**
See Sections **300** and **400**

* Clearing Limits as posted on ground



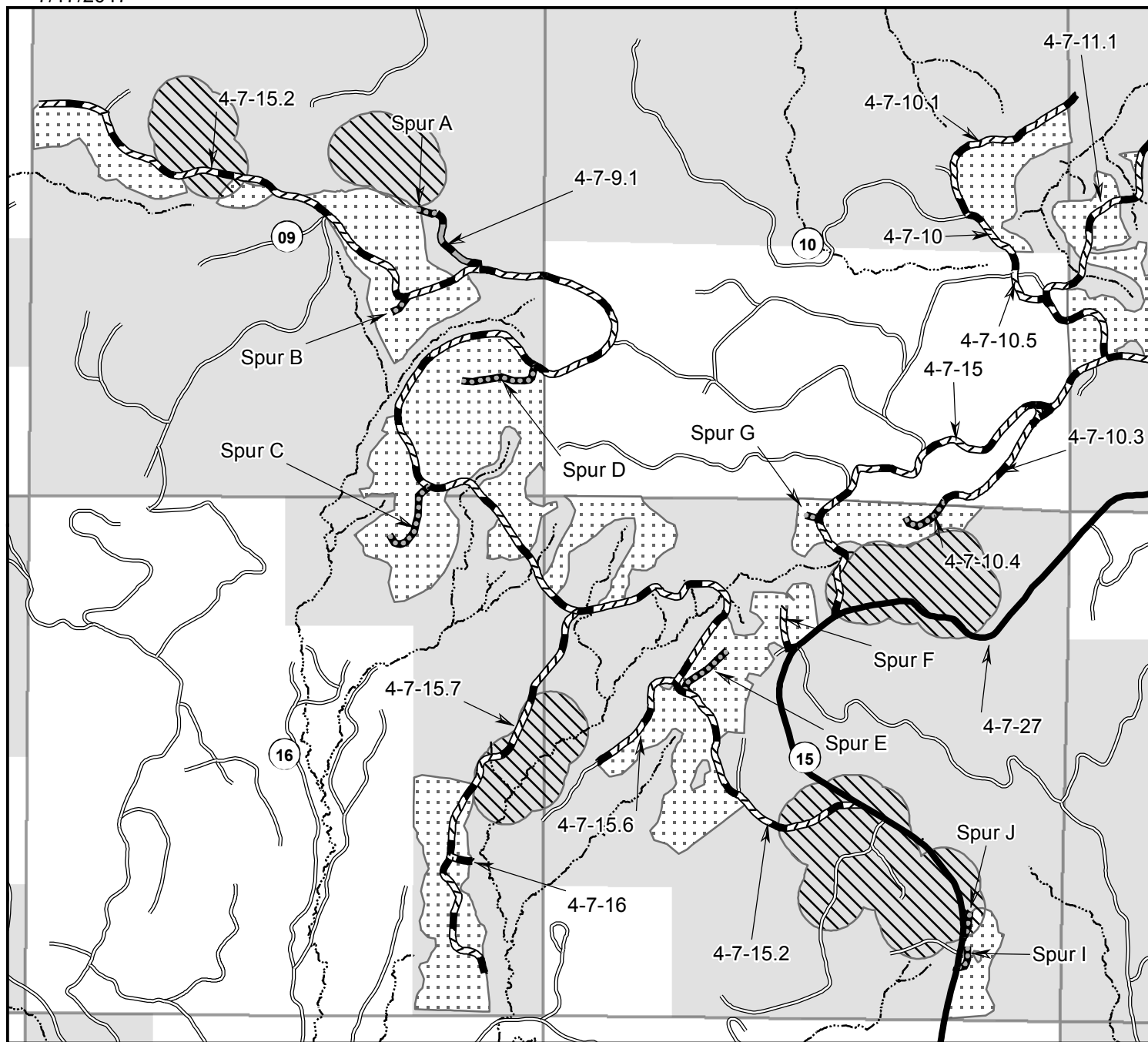
United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Road Plan Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit C
Page 34 of 53

7/17/2017

T. 4S. R. 7W, Section 9, 10, 11, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- Bald Mountain Road, Paved surface
- Existing rock surface road to be renovated, stabilize after use
- Natural surface road to be constructed-Decommission after use
- Existing rock surface road to be renovated, decommission after use
- Existing Roads
- Streams
- Marbled Murrelet Seasonal Restriction Area
- Bell Tower Project Area
- Bureau of Land Management

0 750 1,500 3,000 4,500
Feet

1 inch = 1,500 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: csween



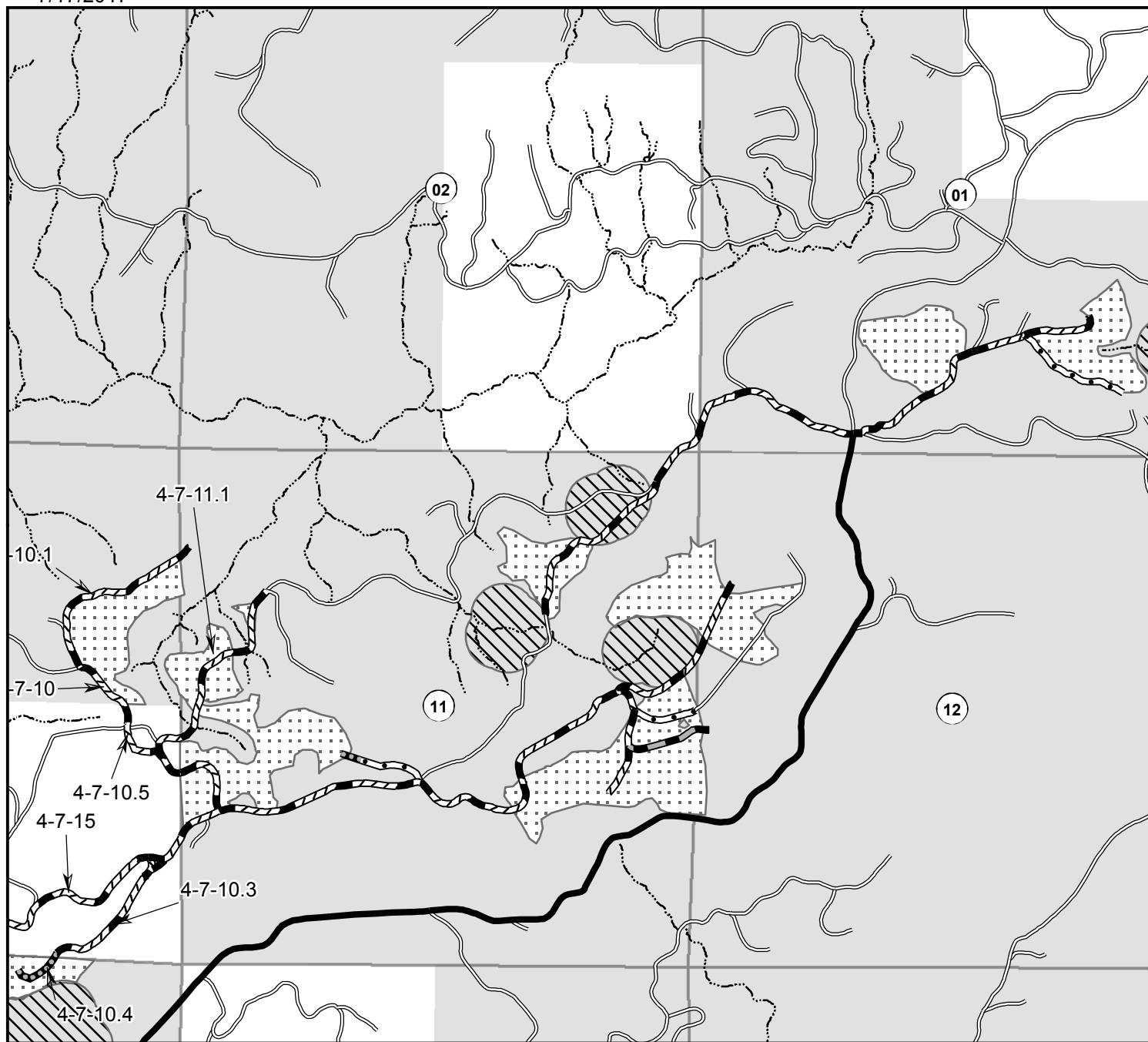
United States Department of the Interior
BUREAU OF LAND MANAGEMENT

Road Plan Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit C
Page 35 of 53

7/17/2017

T. 4S. R. 7W, Section 1, 10, 11 & 12 W. M. - NORTHWEST OREGON DISTRICT - OREGON



- Bald Mountain Road, Paved surface
- Existing rock surface road to be renovated, stabilize after use
- Natural surface road to be constructed-Decommission after use
- Existing rock surface road to be renovated, decommission after use
- Existing natural surface road to be renovated, decommission after use
- Existing Roads
- Streams
- Marbled Murrelet Seasonal Restriction Area
- Bell Tower Project Area
- Bureau of Land Management

0 750 1,500 3,000 4,500
Feet

1 inch = 1,500 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: csween

Culvert List

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	Stucture inside pipe	
4-7-9.1	2+50	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	4+97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	7+00	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
4-7-10.0	0.146	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
4-7-10.1	0.003	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.161	18"	--	28'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.210	18"	--	28	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.340	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
4-7-10.3	0.003	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe. Install metal inlet marker.
4-7-10.5	0+35	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. No metal inlet marker needed.
	1+82	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. 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 foot. 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.

Culvert List

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	Stucture inside pipe																						
4-7-11.0	0.021	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.057	36"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Re-use existing metal inlet marker.																					
	0.150	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.193	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.250	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.373	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																					
	0.434	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker.																					
	0.486	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.																					
	0.502	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.562	24"	16	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (perforated pipe for French Drain). Place 120 CY Crushed drain rock wrapped in 210 SY non-woven fabric. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 20 CY Crushed Rock. Install inlet marker.																					
	0.594	24"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.																					
	0.676	18"	--	30'	--	--	--	--	--	--	--	--	--	--	5	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as dissipater. Install metal inlet marker.																					
	0.739	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
4-7-11.1	0.065	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.																					
	0.112	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.																					
	0.150	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.																					
	0.213	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.																					
<div><div><div><div>Gage Chart</div><table><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table></div><div><div>1. Designed culvert lengths and locations are approximate.</div><div>*2. all culverts have 2 2/3" x 1/2"</div><div>unless otherwise noted.</div><div>**** 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.</div></div><div><div>*4. Downspout or Standpipe Types</div><table><tr><td>1) Full</td><td rowspan="3">*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).</td></tr><tr><td>2) Half</td></tr><tr><td>3) Flume</td></tr></table></div><div><div>*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</div><div>*6. Include special sections, structures, headwalls, footings & other data.</div></div></div></div>																		Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060	1) Full	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	2) Half	3) Flume
Gage	Dec. Inches																																					
	Steel	Alum.																																				
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Culvert List

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	Stucture inside pipe	
4-7-11.1 (cont.)	0.268	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.305	42"	14	70'	--	--	--	--	--	--	--	--	--	10	20	--	Replace existing culvert (approx. 13' fill @ CL). Place 40 CY Crushed Bedding/Backfill. Spread 25 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 20 CY Class 5 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Place 10 CY Class 3 RipRap at culvert inlet as Fill Slope Armor. Install metal inlet marker.
	0.360	36"	--	50'	--	--	--	--	--	--	--	--	--	5	5	--	Replace existing culvert (approx. 7' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap at culvert outlet as energy dissipater. Place 5 CY Class 3 RipRap at culvert inlet as Fill Slope Armor. Install metal inlet marker.
	0.446	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.506	36"	--	64'	--	--	--	--	--	--	--	--	--	--	10	--	Replace existing culvert (approx. 9' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 10 CY Class 3 RipRap at culvert outlet as energy dissipater. Install metal inlet marker.
	0.515	42"	14	88'	--	--	--	--	--	--	--	--	--	30	70	--	Replace existing culvert (approx. 18' fill @ CL). Place 50 CY Crushed Bedding/Backfill. Spread 35 CY Pit-Run Base Rock over pipe as Surfacing capped with 25 CY Crushed Rock. Place 40 CY Class 5 RipRap and 30 CY Class 3 RipRap at culvert outlet as Fill Slope Stabilization/energy dissipater. Place 30 CY Class 3 RipRap at culvert inlet as Fill Slope Armor. Install metal inlet marker.
4-7-11.4	0.014	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.129	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
4-7-11.5	0.004	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
4-7-11.7	0.004	18"	--	50'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Outlet is to drain into ditchline of 4-7-11.4. Protect inlet of culvert from ATV traffic by constructing a soil/woody berm around catch basin. 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.

**** 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.

*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.

Culvert List

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	Stucture inside pipe	
4-7-15.0 (cont.)	0.646	18"	--	34'	--	--	--	--	--	--	--	--	--	--	5	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Place 5 CY Class 3 RipRap @ outlet as dissipater. Install metal inlet marker.
	0.709	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.782	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.883	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.925	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	1.051	18"	--	28'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.119	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.207	18"	--	28'	--	--	18"	1	20'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.275	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.286	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.383	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.565	18"	--	46'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over Pipe as Surfacing capped with 15 CY Crushed Rock. Install metal inlet marker.
	1.680	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.

<table><tr><th colspan="3">Gage Chart</th></tr><tr><th rowspan="2">Gage</th><th colspan="2">Dec. Inches</th></tr><tr><th>Steel</th><th>Alum.</th></tr><tr><td>10</td><td>.138</td><td>.135</td></tr><tr><td>12</td><td>.109</td><td>.105</td></tr><tr><td>14</td><td>.079</td><td>.075</td></tr><tr><td>16</td><td>.064</td><td>.060</td></tr></table>	Gage Chart			Gage	Dec. Inches		Steel	Alum.	10	.138	.135	12	.109	.105	14	.079	.075	16	.064	.060	<p>1. Designed culvert lengths and locations are approximate.</p> <p>*2. all culverts have 2 2/3" x 1/2"</p> <p>unless otherwise noted.</p> <p>**** 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.</p>	<p>*4. Downspout or Standpipe Types</p> <table><tr><td>1) Full</td><td rowspan="3">*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).</td></tr><tr><td>2) Half</td></tr><tr><td>3) Flume</td></tr></table>	1) Full	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).	2) Half	3) Flume	<p>*5. 1) Conventional or Fabricated 2) Turner type 3) Slip joint</p> <p>*6. Include special sections, structures, headwalls, footings & other data.</p>
	Gage Chart																										
	Gage	Dec. Inches																									
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	10	.138	.135																								
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1) Full	*** Downspouts and stand pipes (under 36" diameter) shall be CPP, Type C (single wall).																										
2) Half																											
3) Flume																											

Culvert List

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	Stucture inside pipe	
4-7-15.2	0.161	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.349	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Install metal inlet marker on existing CMP.
	0.421	18"	--	30'	--	--	18"	1	10'	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.480	24"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 7' fill @ CL). Place 20 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 20 CY Crushed Rock. Install metal inlet marker.
	0.602	18"	--	34'	--	--	18"	1	10'	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.693	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.717	24"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Temporarily remove geo-grid for culvert installation and re-install. Place 10 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.
	0.762	--	--	--	--	--	--	--	--	--	--	--	--	5	--	--	Install metal inlet marker on existing CMP. Place 5 CY Class 3 RipRap @ inlet as Fill Armor.
	0.804	24"	--	60'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 11' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 10 CY Pit-Run at culvert outlet as Slope Protection. Install metal inlet marker.
	0.885	24"	--	60'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 12' fill @ CL). Place 25 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 15 CY Crushed Rock. Place 10 CY Pit-Run at culvert outlet as Slope Protection. Install metal inlet marker.
	1.026	42"	14	36'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert (approx. 5' fill @ CL). Place 30 CY Crushed Bedding/Backfill. Spread 20 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.087	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	1.107	18"	--	20'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in ditchline for trail access). Temporarily remove geo-grid for culvert installation and re-install. Place 5 CY Crushed Bedding/Backfill. Spread 5 CY Pit-Run Base Rock over Pipe as Surfacing capped with 5 CY Crushed Rock. No inlet marker needed.

20	Gage Chart			1. Designed culvert lengths and locations are approximate. *2. all culverts have 2 2/3" x 1/2" unless otherwise noted. **** 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.	*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.
	Gage	Dec. Inches				
		Steel	Alum.			
	10	.138	.135			
	12	.109	.105			
	14	.079	.075			
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Culvert List

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	Stucture inside pipe	
4-7-15.7	0.032	24"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.277	18"	--	28'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.348	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked in field. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.488	24"	--	30'	--	--	24"	1	20'	--	--	--	--	--	--	--	Replace existing culvert. Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
	0.569	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
Spur E	0+33	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in existing ditchline of 4-7-15.2). Place 15 CY Crushed Bedding/Backfill. Spread 15 CY Pit-Run Base Rock over Pipe as Surfacing capped with 10 CY Crushed Rock. No inlet marker needed.
Spur F	3+04	18"	--	30'	--	--	--	--	--	--	--	--	--	--	--	--	Replace existing culvert. Place 10 CY Crushed Bedding/Backfill. Spread 10 CY Pit-Run Base Rock over pipe as Surfacing capped with 10 CY Crushed Rock. Install metal inlet marker.
Spur I	0+25	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in existing ditchline of Bald Mntn. Rd.). Place 20 CY Crushed Bedding/Backfill. Spread 40 CY Pit-Run Base Rock over pipe as surfacing capped with 20 CY Crushed Rock. No inlet marker needed.
Spur J	0+25	18"	--	40'	--	--	--	--	--	--	--	--	--	--	--	--	Install New Culvert as marked (in existing ditchline of Bald Mntn. Rd.). Place 20 CY Crushed Bedding/Backfill. Spread 40 CY Pit-Run Base Rock over pipe as surfacing capped with 20 CY Crushed Rock. No inlet marker needed.

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.

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unless otherwise noted.

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*4. Downspout or Standpipe Types

1) Full

2) Half

3) Flume

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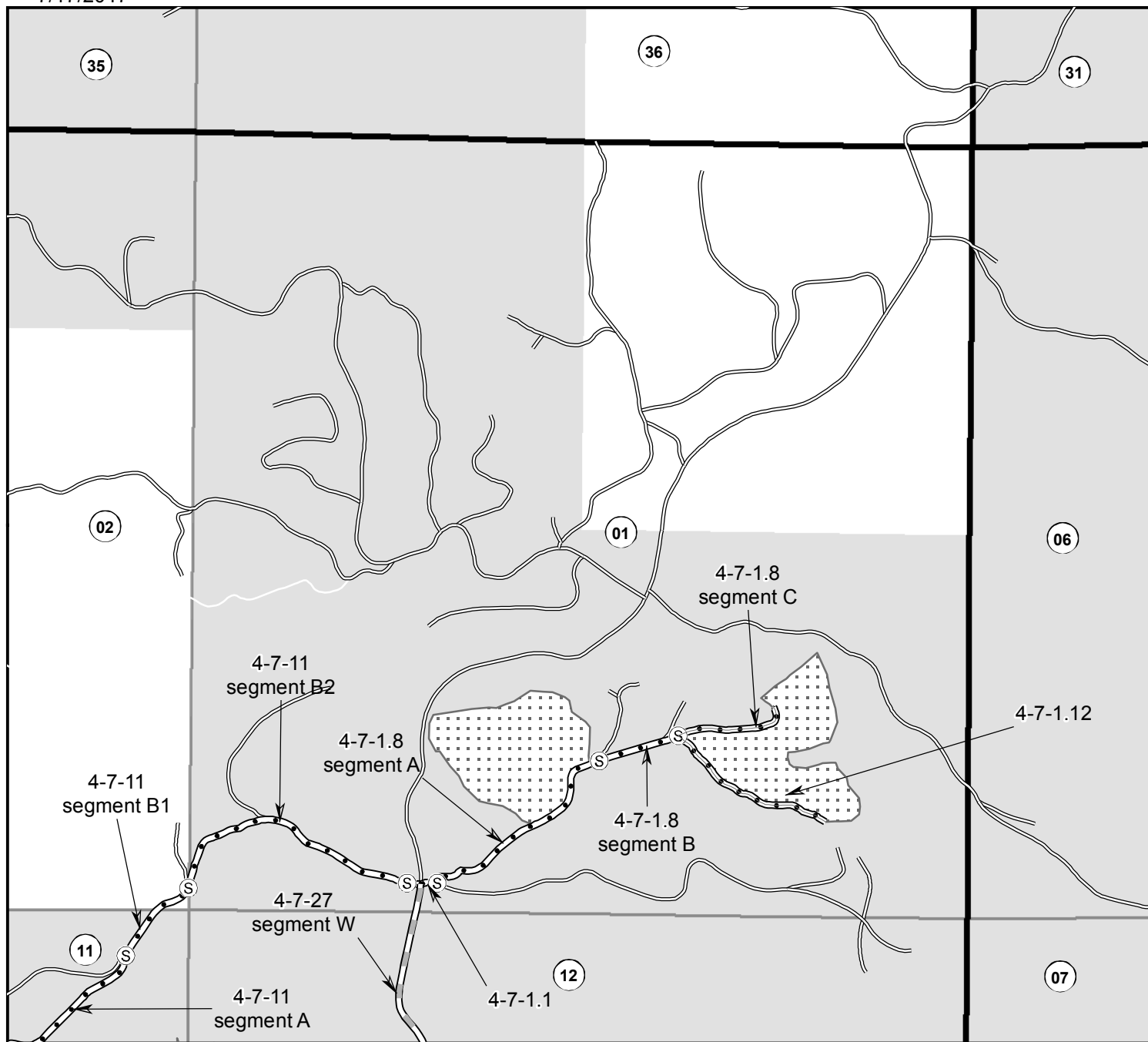


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Maintenance and Access Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit E
Page 1 of 4

7/17/2017

T. 4S. R. 7W, Section 1 W. M. - NORTHWEST OREGON DISTRICT - OREGON



0 500 1,000 2,000 3,000
Feet

1 inch = 1,000 feet

Ⓢ Segment_Breaks

— BLM controlled road-BLM maintenance

— BLM controlled road- Purchaser maintenance

— Existing Roads

▨ Bell Tower Project Area

■ 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: csween

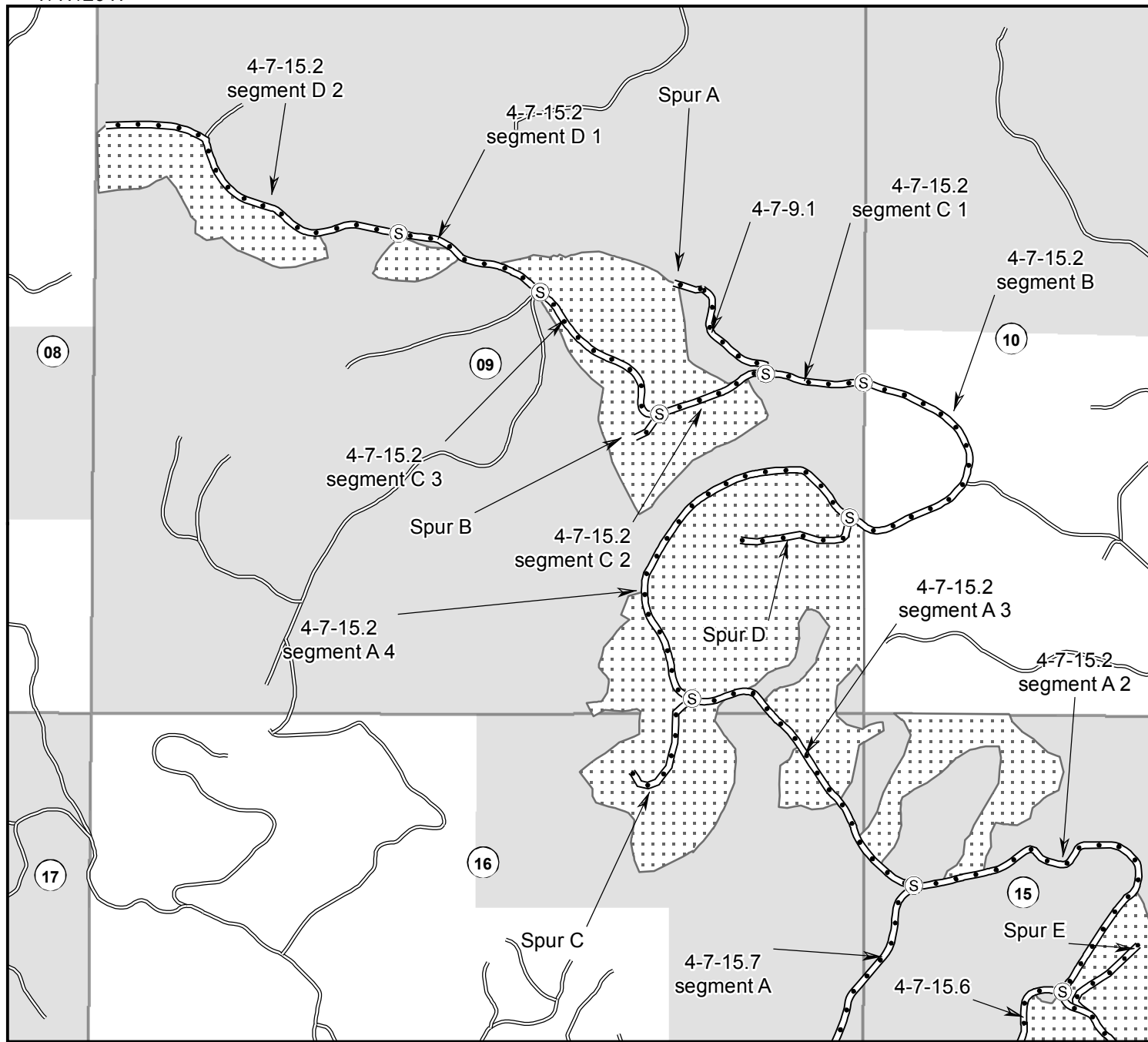


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Maintenance and Access Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit E
Page 2 of 4

7/17/2017

T. 4S. R. 7W, Section 9, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



0 500 1,000 2,000 3,000 Feet

1 inch = 1,000 feet

- Ⓢ Segment_Breaks
- ▬ BLM controlled road- Purchaser maintenance
- ▬ Existing Roads
- ▨ Bell Tower Project Area
- Bureau of Land Management

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Prepared By: csween

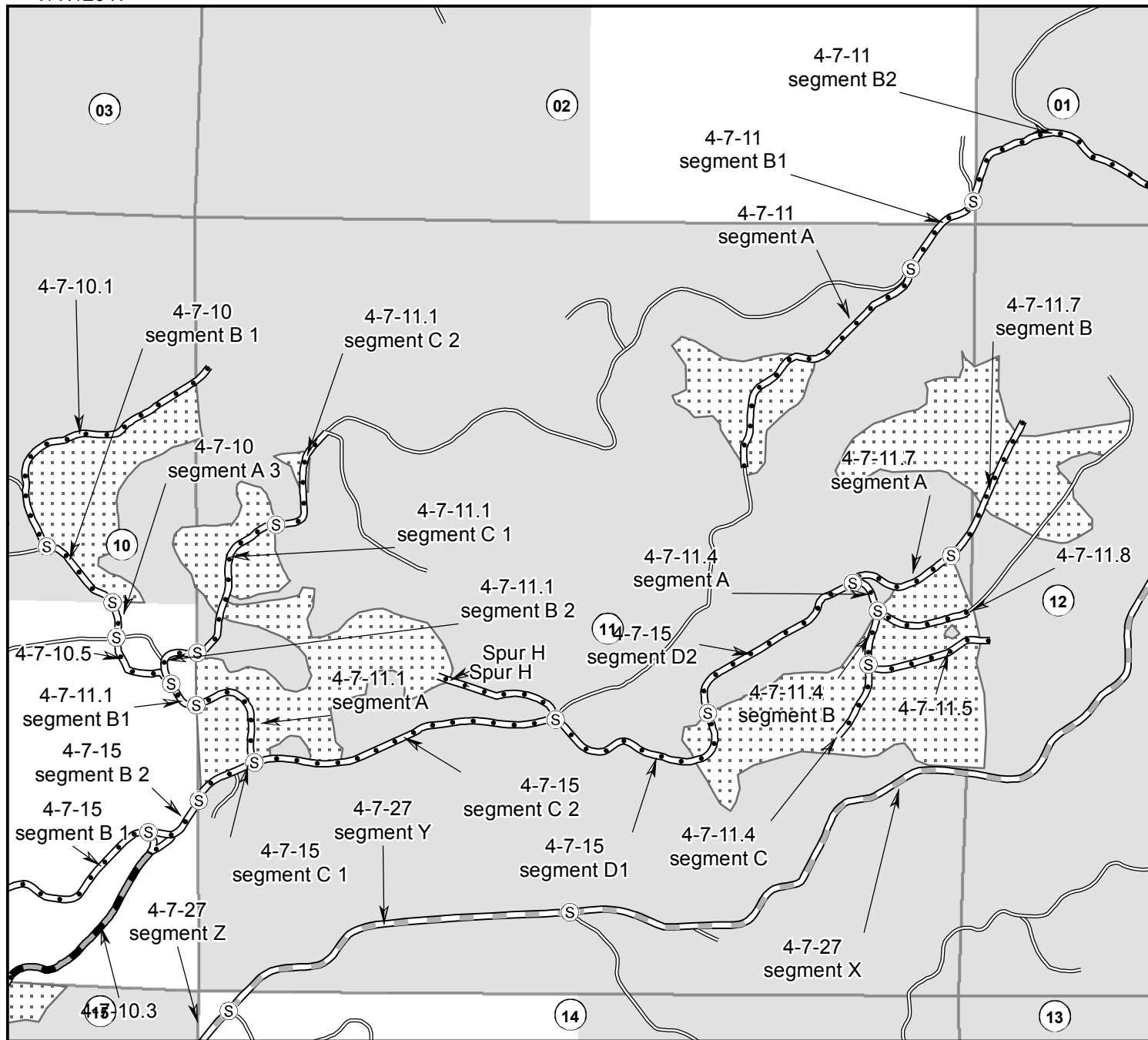


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Maintenance and Access Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit E
Page 3 of 4

7/17/2017

T. 4S. R. 7W, Section 10, 11 & 12 W. M. - NORTHWEST OREGON DISTRICT - OREGON



Ⓢ Segment_Breaks

— BLM controlled road-BLM maintenance

- - - BLM controlled road- Purchaser maintenance

— Oregon Department of Forestry controlled road-Purchaser maintenance

— Existing Roads

⋯ Bell Tower Project Area

■ Bureau of Land Management

0 500 1,000 2,000 3,000
Feet

1 inch = 1,000 feet

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Prepared By: csween

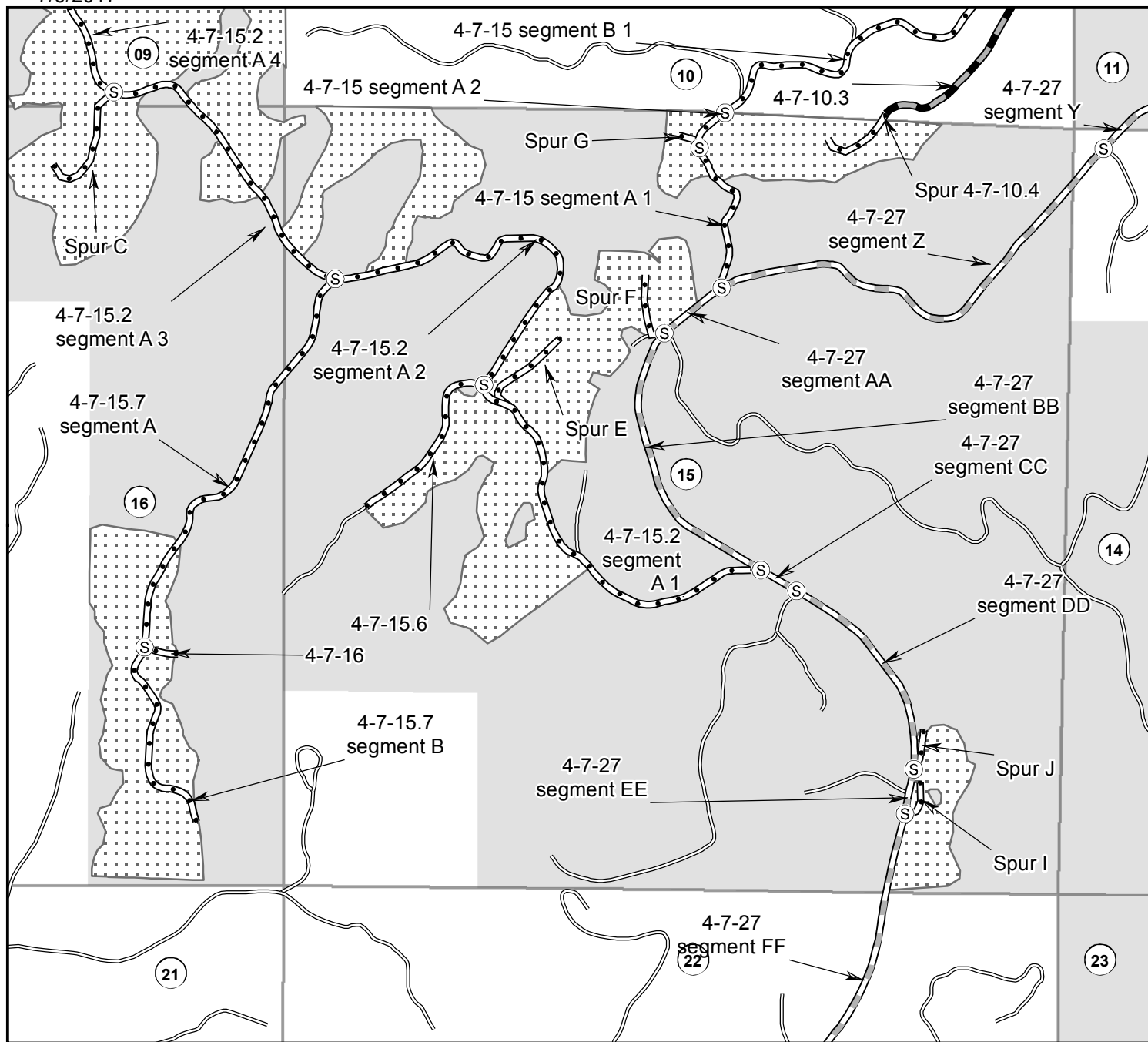


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Maintenance and Access Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit E
Page 4 of 4

7/6/2017

T. 4S. R. 7W, Section 9, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



0 500 1,000 2,000 3,000
Feet

1 inch = 1,000 feet

- Ⓢ Segment_Breaks
- BLM controlled road-BLM maintenance
- BLM controlled road- Purchaser maintenance
- Oregon Department of Forestry controlled road-Purchaser maintenance
- Existing Roads
- Bell Tower Project Area
- Bureau of Land Management

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Prepared By: csween



7/17/2017

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
FIRE AND FUELS TREATMENT MAP

T. 4S. R. 7W, Sections 1, 10, 11 & 12 W. M. - NORTHWEST OREGON DISTRICT - OREGON

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit F
Page 1 of 2



0 650 1,300 2,600 3,900
Feet

1 inch = 1,250 feet

Treatment

- | | | | |
|--|--|--|---------------------------|
| | Machine pile and slashing and lopping | | Bell Tower Project Roads |
| | Slashing and lopping | | Existing Roads |
| | 25 foot slash pullback from Nestucca OHV Trail and roads | | Bell Tower Project Area |
| | | | Bureau of Land Management |

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Prepared By: csween

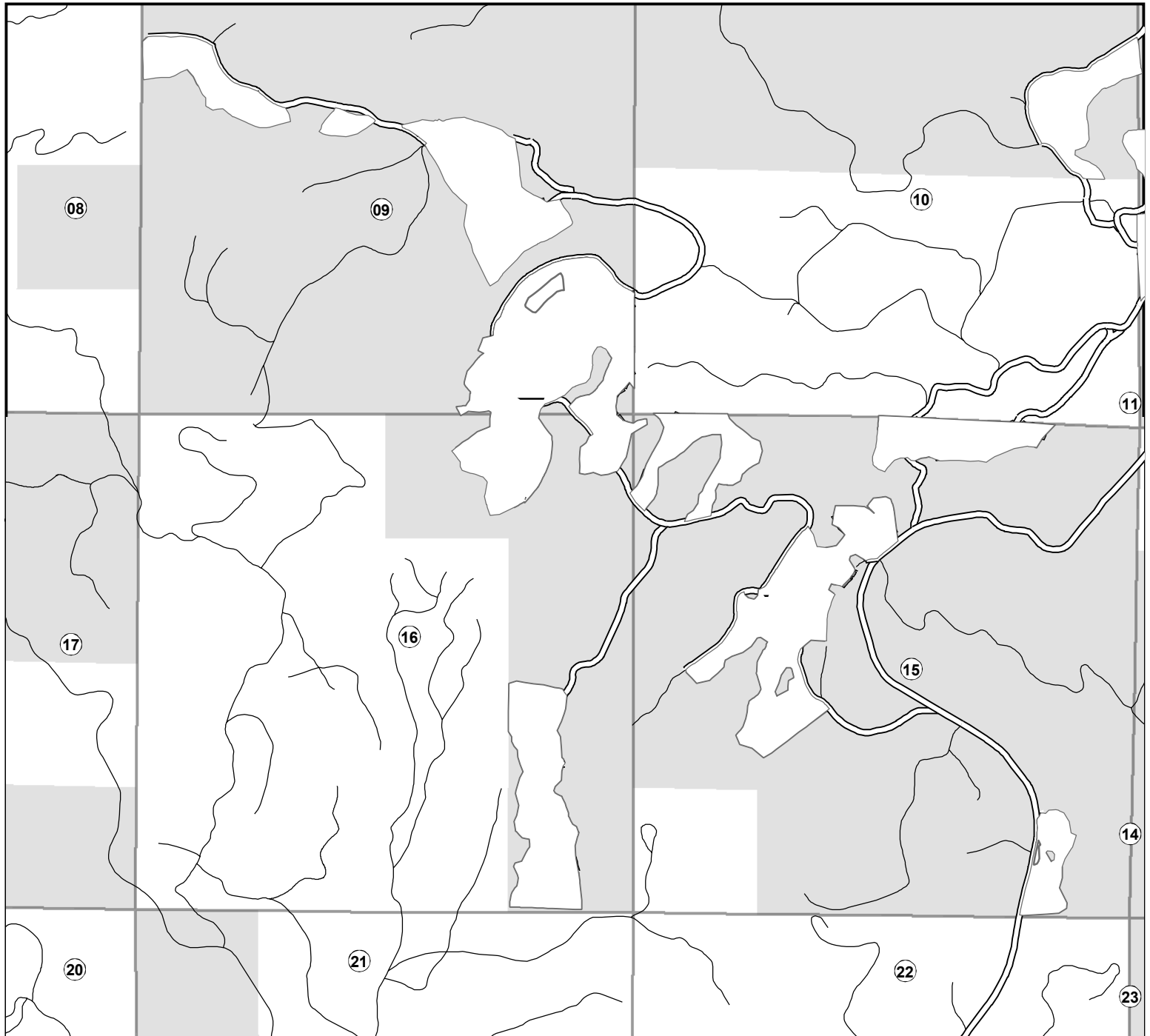
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
FIRE AND FUELS TREATMENT MAP

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit F
Page 2 of 2



T. 4S. R. 7W, Sections 9, 10, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON




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





0 750 1,500 3,000 4,500 Feet

1 inch = 1,500 feet

Treatment

-  Machine pile and slashing and loping
-  Slashing and loping
-  25 foot slash pullback from Nestucca OHV Trail and roads

-  Bell Tower Project Roads
-  Existing Roads
-  Bell Tower Project Area
-  Bureau of Land Management

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Prepared By: csween

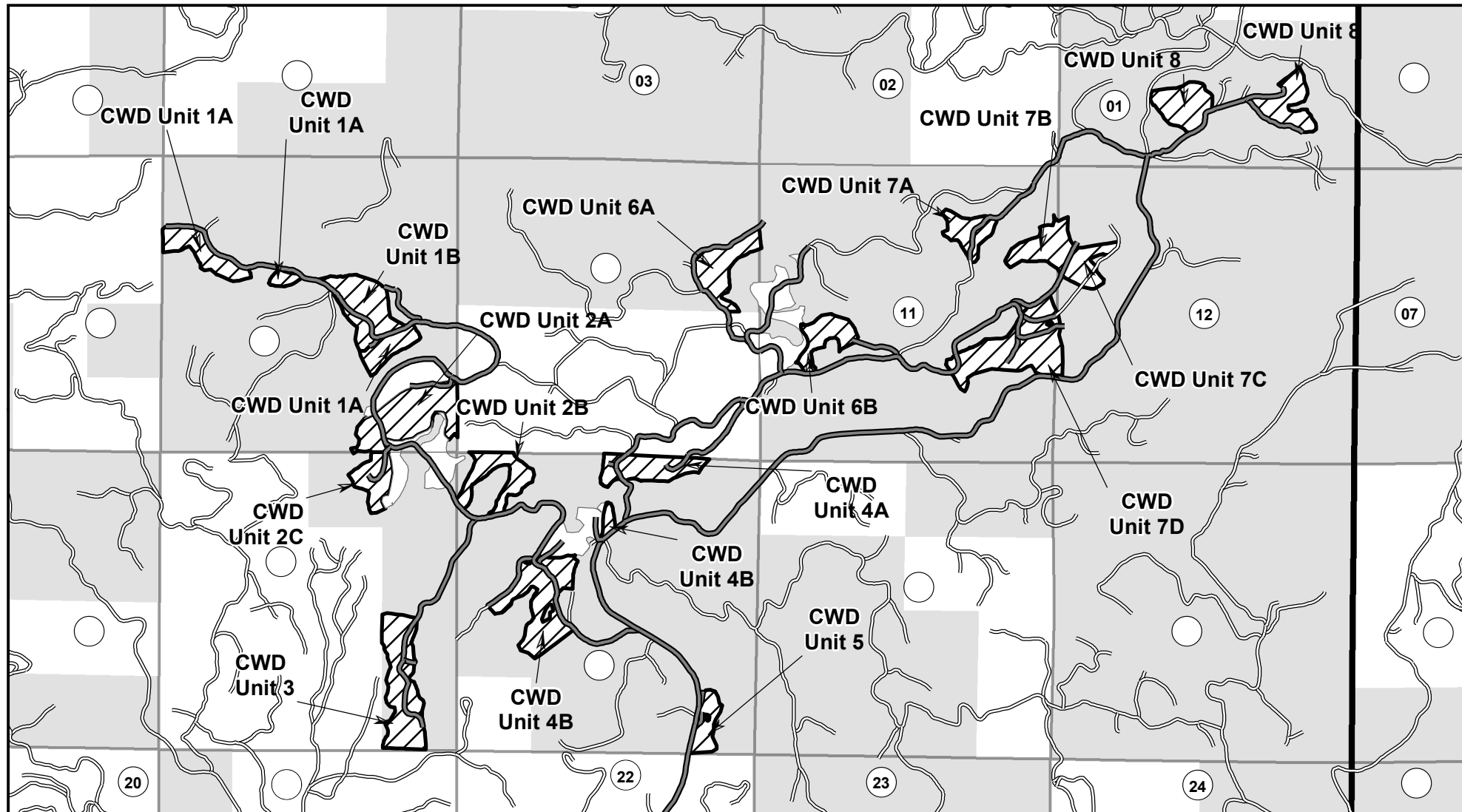


United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Coarse Woody Debris Creation Map

Contract No. ORN04-TS-2017.0404
Bell Tower Timber Sale
Exhibit G
Page 1 of 9

7/18/2017

T. 4S. R. 7W, Section 1,9, 10, 11, 12, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON



CWD Creation Area



No CWD Treatment



Project Roads



Existing Roads



Bureau of Land Management

0 1,300 2,600 5,200 7,800
Feet

1 inch = 2,500 feet

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Prepared By: csween

CREATION OF COARSE WOODY DEBRIS

The Purchaser shall select and treat at total of nine hundred seventeen (917) live reserved trees to create Coarse Woody Debris by saw-topping, high-girdling, basal-girdling or felling; treated trees will be marked with aluminum tags and flagging. The Purchaser shall record treatment data on the Wildlife Tree Data Recording Forms (Illustration #4).

Treatment of trees to create Coarse Woody Debris within any given unit shall not be started until all yarding operations within that unit have been completed. The Purchaser must provide a proposed schedule of work to the Authorized Officer at least one week prior to commencing Coarse Woody Debris Creation activities.

Course Woody Debris Creation per Timber Sale Unit

Exhibit G Unit Number	Acres	Total Trees	Saw- Top	High Girdle	Basal Girdle	Fell	Tree Size (inches at DBH)
1A	25	129	34	34	34	27	26-34
1B	19	14	5	5	4	0	26-34
2A	28	145	39	39	39	28	26-34
2B	14	36	9	9	9	9	26-34
2C	11	50	14	14	14	8	26-34
3	28	126	32	32	31	31	26-34
4A	15	23	8	8	7	0	26-34
4B	30	104	26	26	26	26	26-34
5	8	27	7	7	7	6	26-34
6A	16	14	4	4	4	2	26-34
6B	11	9	3	3	3	0	26-34
7A	9	9	3	2	2	2	26-34
7B	14	50	14	14	14	8	26-34
7C	9	7	3	2	2	0	26-34
7D	33	126	33	33	33	27	26-34
8	28	48	14	14	14	6	21-29
Totals	298	917	248	246	243	180	

SPECIFIC TASKS

1. **Tree Selection** – Trees to be treated shall be selected by the Purchaser according to the following guidelines.
 - a. Only Douglas-fir trees shall be selected for treatment.
 - b. **Saw-topping and High-girdling:** When possible, healthy appearing Douglas-fir trees with live crown ratios generally **greater** than thirty (30) percent and with **average or larger** crown spread shall be selected.
 - c. **Basal-girdling and Tree felling:** When possible Douglas-fir trees with live crown ratios generally **less** than thirty (30) percent and **smaller** than average crown spread shall be selected.
 - d. Selected trees shall be evenly distributed throughout the partial cut areas. 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. Do not select the largest, most dominant tree within any given area.
 - e. Treatment types and selected trees shall be scattered uniformly throughout the units and selected both singly with at least seventy-five (75) percent being in small clumps of three (3) to five (5) trees.
 - f. No trees marked with any existing metal tags shall be selected for treatment.
 - g. No trees with nests or any nest-like structures of any birds or mammals, or trees with defects such as cavities, platforms, mistletoe infection and dead, or forked or broken tops shall be selected.
 - h. Selected trees shall generally 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.
2. **Treatment of Selected Trees by Saw-Topping**
 - a. Treatment will require climbing and topping the tree at a height of at least sixty (60) feet above the ground at a point where approximately twenty (20) to fifty (50) percent of the live crown remains; equally vary the treatment heights within this range (See Illustration 1). Topping will be done with power tools (i.e. chainsaws).
 - b. The Purchaser shall cut several V-type notches which are a minimum of six (6) cuts into the sawn top surface of the tree, each a minimum of six (6) inches deep.
 - c. 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.
 - d. Tree tops shall be completely severed from the tree and fall completely to the ground inside unit boundaries.

- e. Directionally fall tops in order to not damage existing snags and 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 tree with defects such as hollow cavities, multiple tops, or decay, and avoid contact with unburned burn piles and BLM road spurs.
- f. The Purchaser shall tie two pieces of flagging of a color approved by the Authorized Officer around the bole of each treated tree, one at a height of approximately twenty (20) to thirty (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).

3. **Treatment of Selected Trees by High-Girdling – within live crown**

- a. Treatment will require climbing and girdling trees within the live crown, which shall occur at a point where approximately twenty (20) to fifty (50) percent of the live crown remains below the point of girdling, at a height of at least sixty (60) feet above the ground; equally vary the treatment heights 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 (10) to twelve (12) inch band completely around the main stem of the tree. (See Illustration #3)
- b. Tool cuts must not penetrate more than one-half (0.5) of an inch into the wood of high-girdled trees.
- c. 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.
- d. The Purchaser shall tie three (3) pieces of flagging of a color approved by the Authorized Officer to each treated tree. One (1) 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 (20) to thirty (30) feet above the ground and a third flag at four and one-half (4.5) feet above the ground (measured from the uphill side of the tree). The two (2) highest flags shall extend at least four (4) feet from the knot.

4. **Treatment of Selected Trees by Basal-Girdling**

- a. Basal-girdling will be accomplished by making three (3) parallel cuts around 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) of an inch, 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. Trees shall be girdled between three (3) and four (4) feet above ground level measured on the uphill side of the tree. (See Illustration #2)
- b. 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).

5. **Treatment of Selected Trees by Felling**

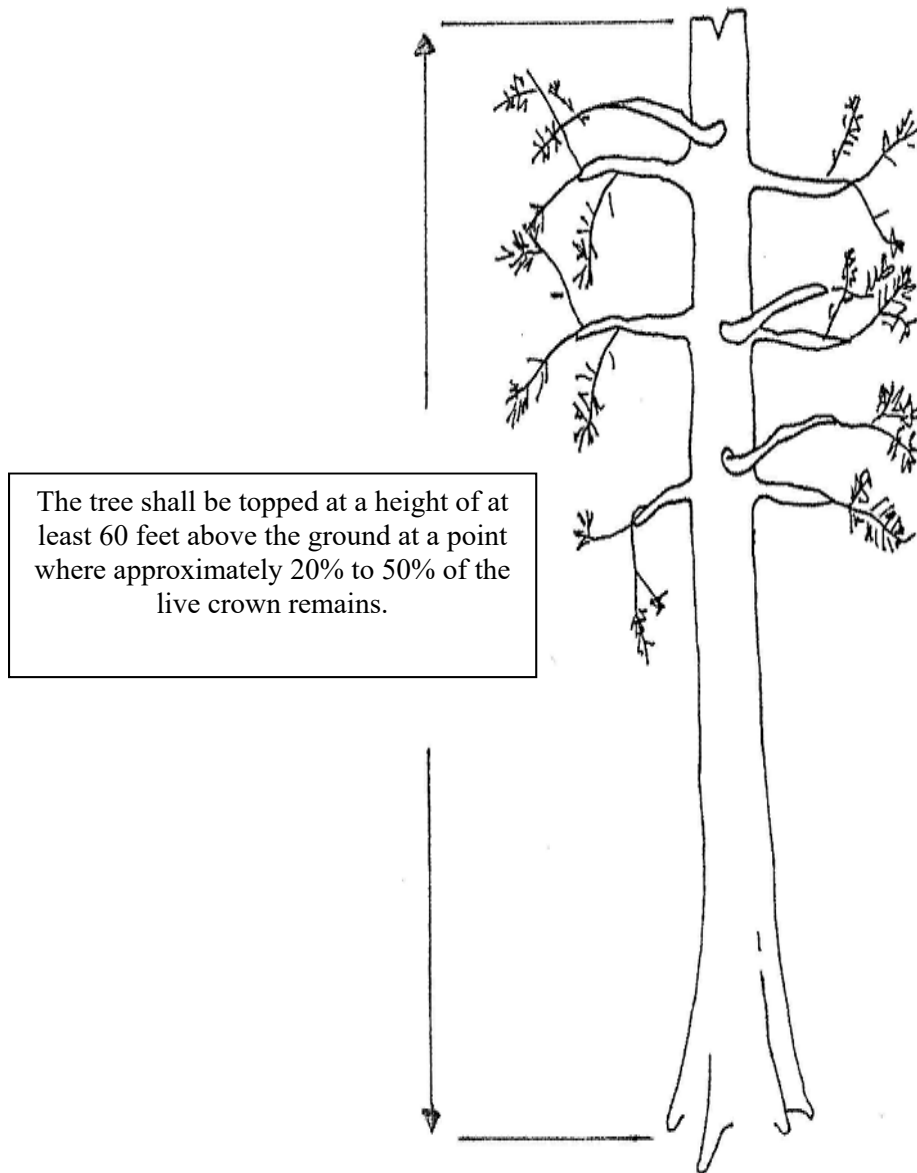
- a. Fallen trees shall be completely severed from the stump and fall completely to the ground.
- b. Stumps shall be no more than four and one-half (4.5) feet tall measured on the uphill side.
- c. No part of a fallen tree shall rest outside of unit boundaries, or within one hundred fifty (150) feet of any open (unblocked) road as determined by the Authorized Officer.
- d. Directionally fall trees in order to not damage 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.

6. **Documentation of Treated Trees**

- a. Purchaser shall record UTM coordinates for all treated trees using their GPS unit as well as recording them on the Wildlife Tree Data Recording Forms. Use NAD83 datum, zone 10. If acceptable GPS satellite coverage cannot be obtained at sites then indicate so on the recording form.
- b. At one week intervals (or as established at the pre-work conference), the Purchaser shall provide to the Authorized Officer: Wildlife Tree Data Recording Forms and the UTM coordinates for treated trees in a digital format for work completed in 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 submissions shall be reviewed to ensure completeness, legibility, accuracy and consistency in style before submitting to the Authorized Officer.

ILLUSTRATION #1 – Saw-topping within the Live Crown

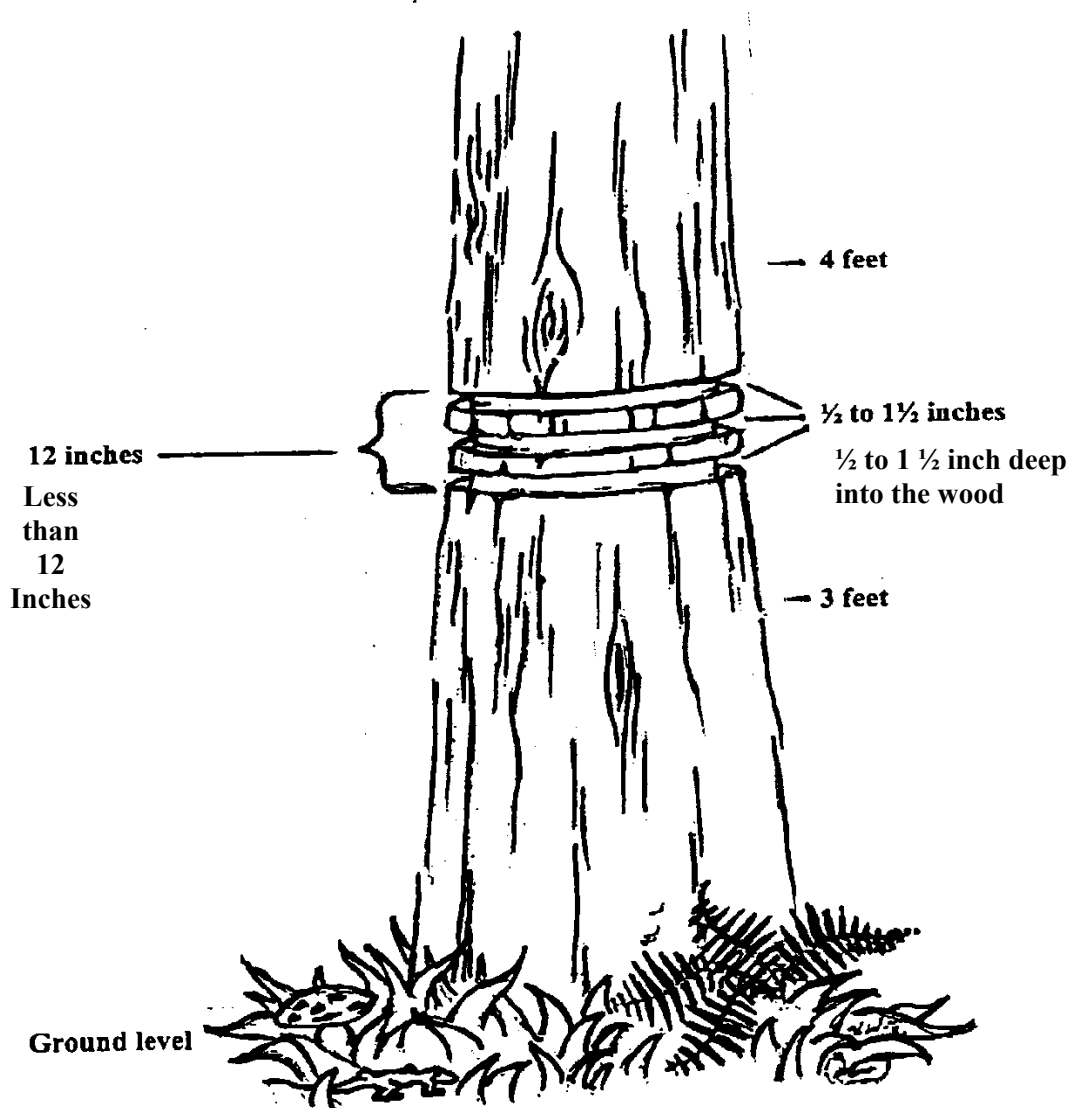
Cut a V-type notch or a “King’s Crown” (with a minimum of 6 cuts) into the sawn top surface, a minimum of 6 inches deep, to provide for a greater potential of future decay in the treetop. To the extent practicable, retain all green limbs and the largest dead limbs on the treated trees during the climbing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

Basal-Girdling ILLUSTRATION #2

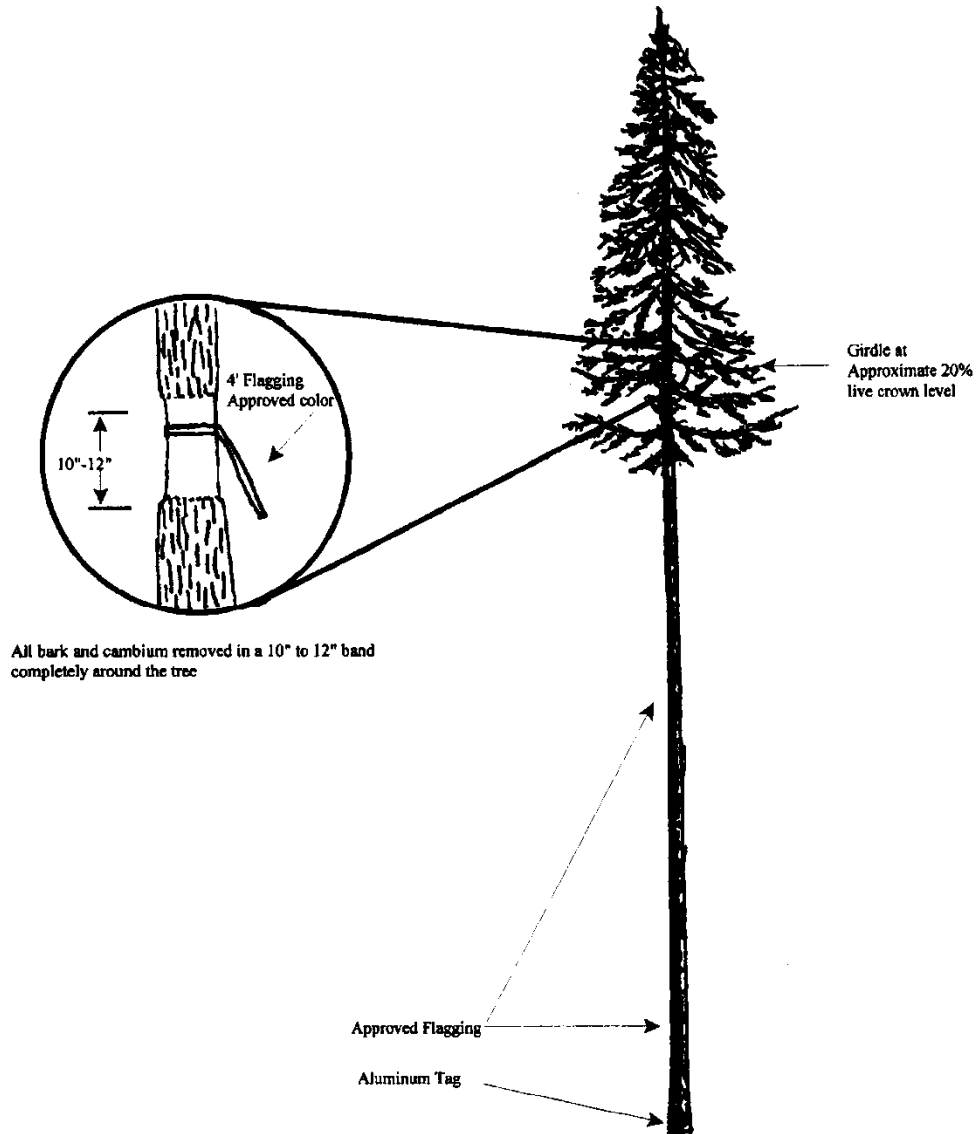
Girdling example: make three (3) parallel unbroken cuts around the tree. The distance between the top and the bottom of the cut shall not exceed twelve inches. Cuts must penetrate at least $\frac{1}{2}$ inch, but not more than $1\frac{1}{2}$ inches into the wood of the tree. Trees shall be girdled between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

²DBH = 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*

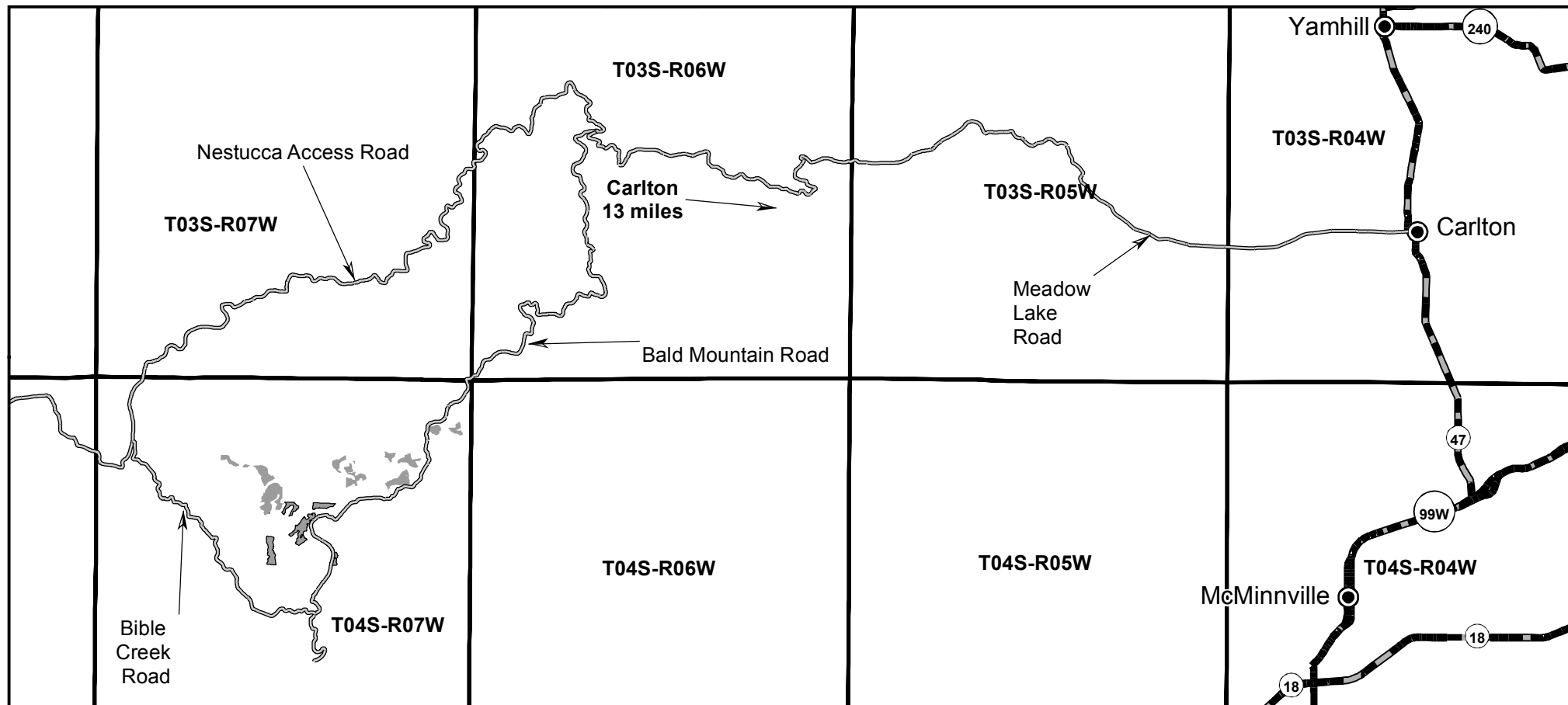
United States Department of the Interior
BUREAU OF LAND MANAGEMENT
NORTHWEST OREGON DISTRICT - OREGON

Bell Tower Timber Sale
Contract No. ORN04-TS-2017.0404
Project Location Map
Page 1 of 1



PROJECT LOCATION MAP

T. 4S. R. 7W, Sections 1, 9, 10, 11, 12, 15 & 16 W. M. - NORTHWEST OREGON DISTRICT - OREGON

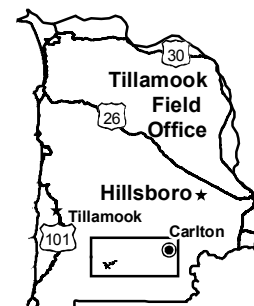


— Main Access Roads — Highway
■ Bell Tower Project Area

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Prepared By: csween Date: 7/14/2017

0 1.75 3.5 7 Miles



Information for Timber Sale Notice, Prospectus, Sec. 41 & 42
Bell Tower Timber Sale
ORN04-TS-2017.0404

Approx # of trees	Est Volume MBF 32'	Species	Est Volume MBF 16'	Appraised \$/MBF	Appraised Price
23,981	8,159.0	Douglas Fir	10,062.0	\$261.50	\$2,631,213.00
159	3.0	Red Alder	4.0	\$123.60	\$494.40
24,140	8,162.0		10,066.0		\$2,631,707.40

CRUISED BY:	Salmon
CRUISE COMPLETED:	June 2017
COMBINED SAMPLING ERROR:	9.96 %

CRUISE DESIGN/METHOD Description:
Variable Plot 3P

TRACT FEATURES

ALL SPECIES

QM DBH	18.0	INCHES
GM LOG	80	BD FT
Total Gross Volume	10,539	MBF
Recovery	95	%
Salvage	0	MBF
Export	0	MBF

Dominant Species: **Douglas Fir**

QM DBH	18.1	INCHES
GM Log	81	BD FT
Recovery	95	%
Salvage	0	MBF

Admin Scale Allowance		\$0.00	\$/MBF
	TOTAL ADMIN. SCALE Allowance	\$0.00	

EXPORT VOLUME (LE-1)	Port Orford Cedar	0	MBF
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Reserve Tree Paint Color	Reserve Tree Count
	0

Harvest Tree Paint Color	Harvest Tree Count
	0



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

Timber Appraisal

Sale Name: Bell Tower	Sale Date: Wednesday, August 23, 2017
BLM District: NW Oregon DO	Unit of Measure: 16' MBF
Contract #: ORN04-TS-2017.0404	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-3
	Sale of Timber - Lump Sum

Content

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

Prepared By: Salmon, Mario
Approved By: Barclay, Brian W

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Tillamook	4S	7W	11	NE1/4,W1/2NW1/4,N1/2SW1/4,N1/2SE1/4,SW1/4SW1/4	Willamette
O&C	Tillamook	4S	7W	12	W1/2NW1/4,NW1/4SW1/4	Willamette
O&C	Tillamook	4S	7W	15	N1/2NE1/4,SW1/4NE1/4,NW1/4,N1/2SW1/4,SE1/4SE1/4	Willamette
O&C	Tillamook	4S	7W	16	N1/2NE1/4,E1/2SE1/4	Willamette
O&C	Tillamook	4S	7W	1	E1/2,SW1/4,SE1/4	Willamette
O&C	Tillamook	4S	7W	9	S1/2NE1/4,W1/2NW1/4,SE1/4NW1/4,SE1/4	Willamette
O&C	Tillamook	4S	7W	10	E1/2NE1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	10,062.0	10,500.0	10,531.0	130,381	755	23,981
Red Alder	4.0	8.0	8.0	130	130	159
Totals	10,066.0	10,508.0	10,539.0	130,511	885	24,140

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	358.0	2.0	360.0	28.0

Logging Costs

Stump to Truck	\$1,577,189.21
Transportation	\$283,716.00
Road Construction	\$624,549.17
Maintenance/Rockwear	\$92,574.97
Road Use	\$0.00
Other Allowances	\$104,888.98
Total:	\$2,682,918.33
Total Logging Cost per MBF:	\$266.53

Utilization Centers

Location	Distance	% of Net Volume
Willamina, Or.	15.0 miles	100 %

Profit & Risk

Basic Profit & Risk	10 %
Additional Risk	0 %
Total Profit & Risk	10 %

Tract Features

Quadratic Mean DBH	18.0 in
Average GM Log	80 bf
Average Volume per Acre	28.0 mbf
Recovery	95 %
<u>Net MBF volume:</u>	
Green	10,066.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	75 %
Average Yarding Slope	20 %
Average Yarding Distance	400 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	25 %
Average Yarding Slope	50 %
Average Yarding Distance	500 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	June 2017
Cruised By	Salmon
Cruise Method	
Variable Plot 3P	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	23,981	10,062.0	\$586.72	\$58.67	\$266.53	\$0.00	\$261.50	\$2,631,213.00
Red Alder	159	4.0	\$433.50	\$43.35	\$266.53	\$0.00	\$123.60	\$494.40
Totals	24,140	10,066.0						\$2,631,707.40

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			2.0 %	68.0 %	28.0 %	2.0 %	

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

Bell Tower**Unit Summary****ORN04-TS-2017.0404****Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,559.0	1,627.0	1,629.0	3,185
Totals:	1,559.0	1,627.0	1,629.0	3,185

Net Volume/Acre: 33.9 MBF

Regeneration Harvest	0.0
Partial Cut	46.0
Right of Way	0.0
Total Acres:	46.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	2,011.0	2,104.0	2,117.0	5,700
Totals:	2,011.0	2,104.0	2,117.0	5,700

Net Volume/Acre: 24.8 MBF

Regeneration Harvest	0.0
Partial Cut	81.0
Right of Way	0.0
Total Acres:	81.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	790.0	822.0	822.0	1,589
Totals:	790.0	822.0	822.0	1,589

Net Volume/Acre: 28.2 MBF

Regeneration Harvest	0.0
Partial Cut	28.0
Right of Way	0.0
Total Acres:	28.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,354.0	1,414.0	1,419.0	3,424
Totals:	1,354.0	1,414.0	1,419.0	3,424

Net Volume/Acre: 25.1 MBF

Regeneration Harvest	0.0
Partial Cut	54.0
Right of Way	0.0
Total Acres:	54.0

Unit: 5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	226.0	235.0	235.0	454
Totals:	226.0	235.0	235.0	454

Net Volume/Acre: 28.3 MBF

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

Unit: 6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	1,058.0	1,109.0	1,118.0	3,353
Totals:	1,058.0	1,109.0	1,118.0	3,353

Net Volume/Acre: 22.0 MBF

Regeneration Harvest	0.0
Partial Cut	48.0
Right of Way	0.0
Total Acres:	48.0

Unit: 7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	2,084.0	2,172.0	2,174.0	4,240
Totals:	2,084.0	2,172.0	2,174.0	4,240

Net Volume/Acre: 32.1 MBF

Regeneration Harvest	0.0
Partial Cut	65.0
Right of Way	0.0
Total Acres:	65.0

Unit: 8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	790.0	822.0	822.0	1,589
Totals:	790.0	822.0	822.0	1,589

Net Volume/Acre: 28.2 MBF

Regeneration Harvest	0.0
Partial Cut	28.0
Right of Way	0.0
Total Acres:	28.0

Unit: rw

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	190.0	195.0	195.0	447
Red Alder	4.0	8.0	8.0	159
Totals:	194.0	203.0	203.0	606

Net Volume/Acre: 97.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	2.0
Total Acres:	2.0

Total Stump To Truck	Net Volume	\$/MBF
\$1,577,189.21	10,066.0	\$156.68

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	7,491.0	\$176.10	\$1,319,165.10	4loads/day @ 4800BF (\$2.00/Gallon)
Track Skidder	GM MBF	2,683.0	\$96.17	\$258,024.11	6 loads/day @4800BF (\$2.00/Gallon)
Subtotal				\$1,577,189.21	

Additional Costs

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

Additional Moves

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

Total	Net Volume	\$/MBF
\$283,716.00	10,066.0	\$28.19

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Willamina, Or.	15.0	All Species	GM MBF	10,508.0	\$27.00	\$283,716.00	100 %

Comments:

100% of Volume going to Willamina, Or. 30miles 5mbf/load 1hr. round trip @ \$90.00

\$90 per hour X 1.5 hour round trip = \$135 per trip / 5 mbf per load = \$27

Engineering Allowances

Total	Net Volume	\$/MBF
\$717,124.14	10,066.0	\$71.24

Cost Item	Total Cost
Road Construction:	\$624,549.17
Road Maintenance/Rockwear:	\$92,574.97
Road Use Fees:	\$0.00

Total	Net Volume	\$/MBF
\$104,888.98	10,066.0	\$10.42

Environmental Protection

Cost item	Total Cost
Basal Girdle	\$5,832.00
Fell	\$5,760.00
Equipment Washing	\$296.00
High Girdle	\$15,375.00
Saw Top	\$17,360.00
Subtotal	\$44,623.00

Logging

Cost item	Total Cost
R/W Yellow trees	\$1,442.55
Subtotal	\$1,442.55

Miscellaneous

Cost item	Total Cost
2 Flaggers	\$1,150.00
Subtotal	\$1,150.00

Slash Disposal & Site Prep

Cost item	Total Cost
Landing Pile Covering	\$2,931.25
Landing Pile Burning	\$2,933.00
Machine Pile Burning	\$2,177.45
Landind Pile Construction	\$6,009.50
Machine Pile Covering	\$4,810.72
Machine Pile Construction	\$7,354.11
Slashing/Lopping	\$19,641.65
Slash Pullback	\$11,815.75
Subtotal	\$57,673.43

Comments:

Line item 1-4 Wildlife coarse woody debris

Line item 6: R/W Yellow Trees 15mbf @ \$ 96.17 cost of ground base logging.

Line items 8-14: Fuels Appraisal

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Form 5430-11
(November 2011)
(formerly 1140-6)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Timber Sale Number

ORN04-TS-2017.0404

Timber Sale Name

Bell Tower

Sale date

08/23/2017**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 (<i>type or print</i>)

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.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXPORT DETERMINATION

FORM APPROVED
OMB No. 1004-0058
Expires: May 31, 2013

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.

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Form 5440-9
(November 2011)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

☒ **TIMBER or
TIMBER AND OTHER WOOD PRODUCTS**

DEPOSIT AND BID FOR

☐ **VEGETATIVE RESOURCES
(Other Than Timber)**

Name of Bidder
Tract Number ORN04-TS-2017.0404
Sale Name Bell Tower
Sale Notice (dated) 07/26/2017
BLM District Northwest Oregon

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
Time for opening sealed bids <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences 09:00 <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On (date) Place	On (date) 08/23/2017 Place 1717 Fabry Rd SE, Salem, O R

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.

Required bid deposit is \$263,200.00 and is enclosed in the form of:
☐ cash ☐ money order ☐ cashier's check ☐ certified check ☐ bank draft
☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

IT IS AGReeD That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will bereturned.

BID SCHEDULE – LUMP SUM SALE

NOTE: Bidders should carefully check computations in completing the Bid Schedule

BID SUBMITTED					ORAL BID MADE	
PRODUCT SPeCIeS	UNIT	eSTIMATeD VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	10,062	X	=	X	=
red alder	MBF	4	X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

(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 <i>(type or print)</i>
<input type="checkbox"/> Signatures, if firm is a partnership or L.L.C.	Business address, include zip code <i>(type or print)</i>
<input type="checkbox"/> Corporation organized under the state laws of	<i>(To be completed following oral bidding)</i>
Signature of Authorized Corporate Signing Officer	I HEREBY confirm the above oral bid By <i>(signature)</i>
Title	Date
Submit bid, in <i>duplicate</i> , 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 bondsmen 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.