

PROSPECTUS

GRANTS PASS RESOURCE AREA
JOSEPHINE MASTER UNIT

Medford Sale # 11-04
July 28, 2011 (AF)

#1. DEER NORTH, Josephine County, O&C and P.D. BID DEPOSIT REQUIRED: **\$12,800.00**

All timber designated for cutting in SE1/4SW1/4, W1/2SE1/4 Section 29, NE1/4 Section 31, W1/2NE1/4, E1/2NW1/4, SW1/4NW1/4 Section 33, T. 37S. R. 7W., Lots 1, 2, and 3, Section 7, T. 38S. R. 7W., Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Est. Volume CCF	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
6091	955	2046	Douglas-fir	1160	\$108.70	\$126,092.00
138	22	47	Sugar Pine	27	\$32.00	\$864.00
56	15	31	Ponderosa Pine	19	\$30.50	\$579.50
5	1	2	Incense-cedar	1	\$209.60	\$209.60
6290	993	2126	Totals	1207		\$127,745.10

*Stumpage values have been determined by market value estimates and analytical appraisal methods were used to compute the appraised price. Additional information concerning the appraised price is available at the Medford Interagency Office.

TIMBER AUCTION LOCATION – The timber auction will be held at the Grants Pass Interagency Office, located at 2164 NE Spalding Ave., Grants Pass, OR, at 9 a.m. on Thursday, July 28, 2011.

Bidders will be restricted to bidding on a unit (MBF) rate of the Douglas-fir volume. All other species will be sold at appraised price per unit (MBF). The minimum bid increment will be \$0.10 per MBF.

CRUISE INFORMATION - The Douglas-fir has been cruised using the 3-P sampling method to select sample trees. Maps showing the location and description of these sample trees are available at the Grants Pass Interagency Office. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. The volume of all other species in this sale has been derived from individual tree measurements taken during a 100% cruise using form class tables for estimating board foot volume of trees in 16-foot logs.

Approximately 1% of the sale volume is salvage material. With respect to merchantable trees of all conifer species: the average tree is 14.4 inches DBHOB; the average gross merchantable log contains 59 bd. ft.; the total gross volume is approximately 1344 M bd. ft; and 90% recovery is expected. (Average DF is 14.3 inches DBHOB; average gross merchantable log DF contains 58 bd. ft.)

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber and is prohibited from use 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.

CUTTING AREA – Four (4) units containing ninety-eight (98) acres must be partial cut.

CUTTING TIME - Contract duration will be 36 months for cutting and removal of timber.

ACCESS - Access to the sale area is available via public roads to the contract area; Redwood Highway(US99) to Draper Valley Road - turn left, ¾ mile to Indian Creek Road turn left one mile to BLM Road 37-7-31; and Redwood Highway(US99) to Deer Creek Road turn left 2 miles to 38-7-7 and 3.5 miles to Coyote Creek Road. From there to existing BLM roads; 37-7-31A, 37-7-29, 37-7-33.1, 37-7-34.01A and 37-7-34.01B.

ROAD MAINTENANCE – The Purchaser will be required to maintain 6.93 miles of BLM roads and pay a rockwear fee of \$1123.34.

ROAD RENOVATION - The contract will require the Purchaser to renovate 365.9 stations of road. Additional information is available in the timber sale prospectus.

SOIL DAMAGE PREVENTION - Pursuant to Section 25 of Form 5450-3, Timber Sale Contract, no tractor/ground based yarding, road maintenance/renovation, road construction, or landing construction shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of soil sample taken at 4"-6" to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable, as determined by the Authorized Officer, the waiver will be revoked.

EQUIPMENT REQUIREMENTS –

1. Yarding tractor not greater than 9 feet wide, as measured from the outer edges of standard width track shoes and equipped with integral arch and winch capable of lining logs 75 feet.
2. Skyline yarder capable of one end log suspension, minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul, and yarding logs uphill approximately 600 feet.
3. A minimum two hundred (200) flywheel horsepower tractor with mounted rippers and capable of ripping to a depth of eighteen (18) inches will be required for decommissioning temporary spurs, natural surface landings, and main tractor skid roads.

SLASH DISPOSAL – Appraised slash disposal consists of fifty-four (54) acres of hand pile and cover, forty-four (44) acres of lop and scatter.

CONTRACT 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;
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 established in the ROD and RMP.

This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area.

PERFORMANCE BOND - A performance bond in the amount of 20% of the total purchase price will be required.

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. Seasonal operating constraints. (L-18, L-18a).
3. Slash treatment concurrent with logging.
4. Cleaning of equipment to eliminate noxious weed seeds is required prior to move in of equipment onto federal lands.
5. Whole tree, (limbs, tops attached) yarding will be allowed unless unacceptable damage occurs, (L-6).
6. Mechanical harvesters may be used. Restrictions apply. Section 41(B)(4)L-7 and 41(B)(5)L-7.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Selma, Oregon, go East on Deer Creek Road for approximately 2.5 miles and turn North on BLM Road 38-7-7. Go through a locked BLM gate and proceed about 0.4 miles. This puts you in Unit 7-11 of the timber sale. See Exhibit A, Deer North Timber Sale Location Map, and Grants Pass Resource Area transportation maps for more detailed information on roads and unit locations.

ENVIRONMENTAL ASSESSMENT - An environmental assessment DOI-BLM-OR-M070-2009-0010-EA was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford Interagency Office.

Deer North T.S.
OR110-TS11-04

OR110-TS11-04

* Permitted year-round unless unacceptable damage occurs to residual trees or soil.

** In-stream work periods for culvert cleaning are June 15th- September 15th

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THIS IS A SALE PROSPECTUS ONLY. THESE ARE THE SPECIAL PROVISIONS AS THEY WILL BE WRITTEN IN THE CONTRACT. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT PROVISIONS. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE MEDFORD DISTRICT OFFICE.

Sec. 40. TIMBER RESERVED FROM CUTTING - The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government.

- (A) AR-1 All timber on the Reserve Areas as shown on Exhibit A and all orange painted/or posted trees which are on or mark the boundaries of the Reserve Areas.
- (B) IR-1 Approximately thirty four hundred and four (3404) conifer trees marked with orange paint in all units as shown on Exhibit A.
- (C) IR-3 All conifers which are smaller than nine (9) inches D.B.H.O.B. in unit 33-1 as shown on Exhibit A.
- (D) IR-6 All hardwood trees which are larger than eight (8) inches D.B.H.O.B. in all units as shown on Exhibit A.
- (E) IR-6 All snags greater than sixteen (16) inches D.B.H.O.B. and all wind thrown trees in all units except hazard snags. Any felled hazard snags must remain where felled or as directed by the Authorized Officer.
- (F) IR-10 All trees marked with a band of orange paint about six feet from the ground and with a yellow, metal, SEED TREE tag in the partial cutting areas shown on Exhibit A. These trees are selected, genetically superior trees and are specially valued as a component of the tree improvement program. Any damage to such reserve trees caused by the Purchaser shall be charged for on the basis of the resulting total loss to the Government including any loss in value as a superior seed source
- (G) IR-11 Seventeen trees marked with an orange W in units 29-2, 33-1, and 7-11 as shown on Exhibit A. These trees are selected wildlife trees and are specially valued as a component of the Wildlife Habitat Management program. Selected wildlife trees damaged or destroyed by

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The Purchaser shall be valued for purposes of determining damages at current market value of the merchantable volume plus the cost to replace the damaged or destroyed trees. The Purchaser will be liable under applicable sections of this contract for the removal or destruction of these selected wildlife trees, except for such trees which the Authorized Officer determines to be a safety hazard as defined by applicable safety codes and regulations. When selected wildlife trees are determined to be danger trees, written approval to fell such trees shall be obtained from the Authorized Officer conforming to all requirements of Section 8 of this contract.

- (H) IR-11M All trees which were severed from the stump or cut into logs prior to the date this contract was entered into, and all pre-existing dead and down woody debris within all units as shown on Exhibit A.

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Section 41

(A) Log Exports

- (1) LE-1 All timber to the Purchaser under the terms of this contract, except exempted species, 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. 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 uses; or (4) western red cedar 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 timber, 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:

- (a) Date of last export sale.
- (b) Volume of timber contained in last export sale.
- (c) Volume of timber exported in the past twelve (12) months from the date of last export sale.
- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.

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

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

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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.

In the event of the Purchasers 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.

(B) Logging

- (1) L-1 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.
- (2) L-5 All unmarked conifer trees greater than nine (9) inches D.B.H.O.B. and not reserved shall be felled and yarded concurrently with all other trees designated for cutting in unit 33-1 as shown on Exhibit A.
- (3) L-6 In all units shown on Exhibit A, all trees twenty one (21) inches D.B.H.O.B. and smaller designated for cutting may be felled and yarded to approved landing locations either tree length, or with tops attached. If excessive stand damage occurs from bark slippage, girdling, broken tops, damage to live crowns, or soil disturbance greater than 15% over harvest area, as determined by the Authorized Officer, bucking and/or limbing will be required. All trees over twenty one (21) inches D.B.H.O.B. designated for cutting shall be felled and cut into lengths not to exceed forty four (44) feet unless otherwise approved by the Authorized Officer.
- (4) L-7 In units 29-2, 31-1, and 33-1 as shown on Exhibit A, harvest trees may be felled mechanically using a feller-processor or feller-buncher with the approval of the Authorized Officer and in accordance with the following specifications:
 - (a) Mechanized felling operations shall be limited to slopes of thirty-five (35) percent or less.

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- (b) Mechanized felling operations are subject to seasonal operating restrictions as described in Section 41(B)(9) and 41(B)(10) of this contract.
 - (c) The feller-processor or feller-buncher shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose-built carriers with boom-mounted felling heads may be approved. The purpose-built carrier may be of the articulated, rubber-tired design or the zero-clearance tail swing, leveling track-mounted design.
- (5) L-7 In units 29-2, 31-1, and 33-1 as shown on Exhibit A:
- (a) Ground-based yarding operations shall be limited to slopes of thirty-five (35) percent or less, and existing skid trails shall be utilized to the greatest extent possible.
 - (b) Ground-based yarding operations are subject to seasonal operating restrictions as described in Section 41(B)(9) and 41(B)(10) of this contract.
 - (c) A rubber-tired or track-mounted skidder may be used in accordance with the following specifications:
 - (1) The skidder shall be approved by the Authorized officer prior to ground-based yarding operations.
 - (2) Yarding shall be done with one-end of the log suspended.
 - (3) The skidder shall be restricted to designated skid trails. Skid trails shall be clearly identified on the ground, twelve (12) feet or less in width and spaced at least one hundred fifty (150) feet apart. Designated slid trails, whether existing or newly proposed, shall be approved by the Authorized Officer prior to the felling of timber.
 - (d) A cut-to-length system may be used in accordance with the following specifications:
 - (1) The harvester shall be required to cut off limbs and tops in front of the machine's tracks in order to reduce the potential for soil compaction. The harvester must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible.

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- (2) The forwarder shall only operate on designated skid trails approved by the Authorized Officer. Forwarder trails shall be located on existing skid trails and/or slash covered areas traversed by the harvester. Forwarder trails shall be perpendicular to hill-slope contour lines as much as possible. Forwarder trails shall be located such that there are two harvester trails between forwarder trails, resulting in a spacing of at least on hundred (100) feet between forwarder trails.
- (6) L-7MC Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

Designated Area	Yarding Requirements or Limitations
Entire contract area	All operator spurs will not exceed fourteen (14) feet in width.
Cable Unit 7-11	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet.</p> <p>The carriage will be a minimum of fifteen (15) feet above the ground during lateral yarding.</p> <p>Yarding corridors will be approximately one hundred fifty (150) feet apart and perpendicular to the contours. Yarding corridors will be limited to one (1) per landing unless otherwise approved by the Authorized Officer.</p> <p>Yarding corridor widths shall not exceed six (6) feet either side of the skyline centerline.</p> <p>Yarding corridors are not permitted up or down any draw.</p> <p>Prior to falling any timber in the units, all tail/lift trees and/or intermediate support trees shall be identified by the Purchaser and approved by the Authorized Officer.</p>

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Designated Area	Yarding Requirements or Limitations
Tractor Units 29-2, 31-1, 33-1	<p>Yarding tractor width will not be greater than nine (9) feet as measured from the outer edges of standard width track shoes.</p> <p>The location of the tractor skid roads must be clearly designated approximately one hundred fifty (150) feet apart, where topography allows, and approved by the Authorized Officer prior to felling of timber to be yarded over the tractor skid roads.</p> <p>Yarding tractors will be equipped with integral arches capable of one-end suspension during skidding and winch systems capable of lining logs at least seventy-five (75) feet.</p> <p>No yarding will be allowed up or down draw bottoms.</p> <p>Landing size shall not exceed one-quarter (1/4) acre.</p> <p>Ground based equipment shall be limited to slopes less than thirty-five (35) percent, and existing skid trails shall be utilized to the greatest extent possible.</p> <p>Use of mechanized equipment off of designated skid roads shall require approval from the Authorized Officer. All operations shall maintain soil compaction of 12% or less across the harvest area.</p>

- (7) L-9 No yarding or loading is permitted in or through the reserve areas as shown on Exhibit A unless approved by the Authorized Officer.
- (8) L-18 No hauling on natural surface/operator spur and rocked roads shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If moisture conditions on the road are deemed acceptable and do not result in continuous mud splash or tire slide, fines being pumped through road surfacing from the subgrade, road drainage causing a visible increase in stream turbidities, surface rutting, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events, Contracting Officer may approve a conditional waiver. If moisture conditions on the road resulting from said conditional waiver are not acceptable as determined by the Authorized

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Officer, the waiver will be revoked.

- (9) L-18 No tractor yarding/ground based yarding, road maintenance/renovation, road construction, or landing construction shall be conducted on the contract area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request, in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of soil sample taken at 4"-6" to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable, as determined by the Authorized Officer, the waiver will be revoked.
- (10) L-18a No road construction, road improvement, landing construction, hauling, felling, yarding, chainsaw operation, or prescribed fire operations shall be conducted within the portion of unit 33-1 that is above/north of road 37-7-33.1 between March 1 and June 30 of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Spotted Owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Spotted Owl nesting and/or fledging activities are not occurring during the year of harvest.
- (11) L-19 Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.
- (12) L-24 Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A pre-work conference between the Purchasers authorized representative and the Authorized Officers representative must be held at a location designated by the Authorized Officer before the logging plan will be approved.
- (13) L-25 Before cutting and removing any trees necessary to facilitate logging in all units and adjacent reserve areas shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:

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(a) All skid 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 removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each cable yarding road shall be limited to twelve (12) feet.

(b) The Purchaser may immediately cut and remove additional timber to clear skid and/or cable yarding roads; and provide tailhold, tieback, guyline, lift, and intermediate support trees; and clear danger trees when the trees have been marked with red paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Section 3.(b). of the contract or sufficient bonding has been provided in accordance with Section 3.(d). of the contract.

(c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section 9 of the contract; or, the Authorized Officer determines any tree that exceeds 32 inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.

(d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under 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.

(e) 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

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approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Section 8 or Section 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.

- (14) L-27 In all units shown on Exhibit A, all trees designated for cutting which are within a tree length of the streams and springs to be protected shall be felled away from those streams and springs.
- (15) L-27 In unit 7-11 as shown on Exhibit A, all trees designated for cutting which are within a tree length of the administrative withdrawal areas to be protected shall be felled away from the administrative withdrawal areas.
- (16) L-27 In all units shown on Exhibit A, all trees designated for cutting which are within a tree length of the unit boundaries shall be felled away from the boundaries and into the unit.
- (17) L-27 In all tractor yarding units as shown on Exhibit A, all trees designated for cutting shall be directionally felled towards pre-approved skid trails.

(C) Road Construction - Maintenance – Use

- (1) RC-1a The Purchaser shall improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) RC-1b Prior to removal of any timber, the Purchaser shall complete all improvement, or renovation of structures and roads as specified in Exhibit C.
- (3) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management and/or Josephine County for the removal of Government timber sold under the terms of this contract and/or hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions set forth in Section 41(C)(5) and pay the required rockwear obligation described in Sections 41(C)(4). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

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Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
37-7-29	0.24	BLM	ABC
37-7-31A	1.61	BLM	ABC
37-7-33.01	1.06	BLM	PRR
37-7-34.01A	1.83	BLM	ASC
38-7-7	1.13	BLM	ASC
Indian Creek County Road	1.06	Josephine County	ASC
Total Miles	6.93		

- (4) RC-2g The Purchaser shall also pay to the Government a road maintenance obligation for rockwear in the amount one thousand one hundred twenty three and 34/100 dollars (\$1,123.34) for the transportation of timber included in the contract price and for transportation of any mineral material required under terms of the contract over road or roads listed in Section 41(C)(3). The amount of the rockwear shown above shall be paid prior to removal of timber from the contract area; provided, however, that if the total of such amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make the payment in installments in the same manner as and together with payments required in Section 3 of this contract.
- (5) RC-2h The Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications," of this contract, which is attached hereto and made a part hereof.
- (6) RC-3 In the use of Indian Creek Road in section 31, T37S, R7W and section 36 T37S, R8W, the purchaser shall comply with the conditions of Right-of-Way and Road Use Agreements between BLM and Josephine County.
- (7) RC-3d The Purchaser agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital

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investment of any such road.

- (8) RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least fifteen (15) days prior to proposed move-in.

Details shall include:

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

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use of overweight or over-dimension vehicles (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.

(D) Environmental Protection

- (1) E-1 In addition to the requirement set forth in Section 25 of this contract, the Purchaser shall, prior to October 15 of the same operating season, “winterize” all temporary roads by properly installing any water bars, berms, sediment basins, gravel pads, seed and/or mulch, to reduce sediment runoff as directed by the Authorized Officer.
- (2) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall construct water dips and/or water bars on all tractor skid roads, temporary spur roads, unimproved roads, and cable yarding corridors. Construction for skid roads

DEER NORTH
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will be concurrent with yarding, in accordance with Exhibit W, or as directed by the Authorized Officer. Water bar construction for cable yarding corridors shall be as directed by the Authorized Officer. Skid roads shall be blocked where they intersect with haul roads.

- (3) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall pile activity slash in unit 29-2 over fifty (50) feet of the temporary spur and existing main skid road coming off said spur, where they intersect with BLM haul roads above and below unit. Piling shall be after decommissioning.
- (4) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall construct earth/log barricade in accordance with Exhibit F at locations shown on Exhibit A. Barricades shall be constructed upon completion of the road decommissioning, or as directed by the Authorized Officer.
- (5) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall hand seed and straw mulch (native and weed free) all natural surfaced landings, and temporary spur road in unit 29-2 with native grass seed at a rate of twenty-five (25) pounds per acre as directed by the Authorized Officer. Native grass seed and straw shall be supplied by the government. If the quantity of native grass seed is not available from the government a mixture of annual rye, native grass, and sterile wheatgrass shall be applied at a rate of twenty-five (25) pounds per acre. The purchaser shall provide written certification that the seed is free of noxious weeds. (Mixture requirements: thirteen (13) pounds annual rye, nine (9) pounds native grass, three (3) pounds sterile wheatgrass). Seed shall be applied from February 1 to April 1 or September 30 to November 1.
- (6) E-1 In addition to the requirements set forth in Sec. 25 of this contract, the Purchaser shall:
 - (a) Use a minimum two hundred (200) flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which is attached hereto and made a part hereof.
 - (b) Use rippers as shown on Exhibit R to fulfill ripping requirements of this provision.
 - (c) Rip to a depth of (18) inches. Areas to be ripped will have two offset passes or as determined by the Authorized Officer.
 - (d) Rip during the period of June 1 to September 15, both dates inclusive.

**DEER NORTH
SPECIAL PROVISIONS**

- (e) Rip all main tractor skid roads, temporary spur road in unit 29-2, and natural surface landings constructed or used during the logging operation or as directed by the Authorized Officer.

- (7) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall only be allowed to use logging, construction, rock crushing, and/or transportation equipment that is free of noxious weed seeds prior to entering federal lands in the contract area as shown on Exhibit A. If equipment is not considered free of noxious weed seeds by the Government, it shall be cleaned prior to entering federal lands. Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds on to federal lands. Cleaning prior to entering federal lands may be accomplished by using a pressure hose.

Equipment shall be subject to visual inspection by the Government to certify that the equipment is free of noxious weed seeds. Only equipment inspected by the Government shall be allowed to operate on federal lands within the contract area. The Purchaser shall make equipment available for Government inspection at an agreed upon location off federal lands prior to any move-in of equipment.

Requirements as outlined above may be waived by the Government if move-in is from one "weed free area" to another "weed free area", as determined by the Government, or as conditions warrant.

- (8) E-1 In addition to the requirement set forth in Section 25 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products inside any riparian management or wet areas. All petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams.
- (9) E-1 In addition to the requirement set forth in Sec. 25 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (10) E-3 If, in connection with operations under this contract, the Purchaser, their contractors, subcontractors, or the employees of any of them, discovers, encounters,

DEER NORTH
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or becomes aware of any objects or sites of cultural value on the contract area such as historical or prehistorical ruins, graves or grave markers, fossils, or artifacts, the Purchaser shall immediately suspend all operations in the vicinity of the cultural value and shall notify the Authorized Officer of the findings. Operations may resume at the discovery site upon receipt of written instructions and authorization by the Authorized Officer.

- (11) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
- (a) 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;
 - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (c) 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;
 - (d) 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;
 - (e) 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;
 - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (g) species 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, and the Contracting Officer determines that continued operations would affect the species or its habitat, or,
 - (h) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines

DEER NORTH
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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 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 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 State, 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 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 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.

DEER NORTH
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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, 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, 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 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.

- (12) E-6 The Purchaser shall notify the Authorized Officer in writing by February 1 of each calendar year in which operations are expected to take place within the portion

DEER NORTH
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of unit 33-1 that is above/north of road 37-7-33.1 between March 1 and September 30, both days inclusive. If notification is not received by the Authorized Officer by February 1, felling, bucking, yarding, road construction, or any other activity with the potential to disturb nesting owls may not be allowed during this time period.

Upon receipt of a notice that the Purchaser expects to perform such operations during this time period, the Government will conduct surveys to determine whether spotted owls are nesting within 0.25 miles of the harvest units. If it is determined that spotted owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations in writing. Without this written approval, such operations are prohibited from March 1 through September 30 of each year.

(E) Miscellaneous

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by nine hundred five and 25/100 dollars (\$905.25). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of nine hundred five and 25/100 dollars (\$905.25) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

**DEER NORTH
SPECIAL PROVISIONS**

(F) Fire Prevention and Control

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

(a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.

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

(1) F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever people are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only."

The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths (¾) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

(2) F-2b A round pointed size "0" or larger shovel in good condition, shall be within fifty (50) feet of any power saw when in operation

(3) F-2c At each landing during periods of operation one (1) tank truck. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute (ORS) 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel

DEER NORTH
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and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.

- (4) F-2d Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area and Grants Pass, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
- (5) F-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.
- (6) F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.
- (7) F-2g Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.

F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. A size "0" or larger shovel shall be available with each gas can when refueling. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.

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(G) Slash Disposal and Site Preparation

(1) **SD-1 Fire Hazard Reduction.** 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:

(a) **SD-1a LOP AND SCATTER** Lop and scatter all slash over the entire cutting area within units 7-11, 29-2, and 31-1 as shown on Exhibit A concurrently with the normal felling operation. All top and side branches must be cut free of the central stem so that such stem is reduced to the extent that it is within twelve (12) inches of the ground at all points.

(b) **SD-1c HAND PILING** Hand pile all slash in unit 33-1 designated by the Authorized Officer in accordance with the following specifications:

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.

Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.

Pile all slash which is between one (1) and seven (7) inches in diameter on the large end and exceeds two (2) feet in length.

A six (6) foot by six (6) foot sheet of four (4) mil. black plastic shall be placed in each pile in a manner such that approximately one-third (1/3) of the pile lies above it to hold it in place and so that a two (2) foot by two (2) foot dry ignition point is maintained for one (1) year or until burned. The ignition point will consist of fine fuel material such as needles, small limbs, and branches less than one-half (1/2) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than five (5) feet and no greater than eight (8) feet; width shall not exceed six (6) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs, stumps, talus slopes, roadways, drainage ditches, within ten

**DEER NORTH
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(10) feet of reserve trees, within twenty-five (25) feet of designated wildlife trees and within ten (10) feet of any other pile or boundary. No portion of the pile will be under the crown of any living conifer tree.

Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:

- (1) Units shall be piled and covered during the same season that they are logged. Piling shall be completed in each unit or portion thereof, within eight (8) weeks after being notified of BLM site treatment determination.
- (c) SD-1i LANDING PILES Pile all slash located within fifty (50) feet on each side of log landing. Slash shall be piled by hand or machine. Finished piles shall be tight and free of earth and located away from reserve trees adjacent to landing.
 - (1) A ten (10) foot by ten (10) foot cover of four (4) mil. black plastic material shall cap each tractor pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Landings shall be piled and covered during the same season that they are logged.
- (2) SD-5 Perform logging residue reduction and site preparation work on approximately ninety eight (98) acres of harvest area located in the harvest units as shown on Exhibit A.
 - (a) The required work shall consist of any treatment or combination of treatments listed in the table below as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment		Cost/Acre
Hand pile and Cover	0-20 piles/ac	\$290.00
Hand pile and Cover	21-40 piles/ac	\$426.00
Hand pile and Cover	41-60 piles/ac	\$562.00
Hand pile and Cover	61-80 piles/ac	\$698.00
Lop and Scatter		\$45.00

**DEER NORTH
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- (b) The following treatments were assumed for appraisal purposed on this contract:

Appraised Treatment	Acres	Cost/Acre	Total Cost per Treatment
Hand Pile and Cover 21-40 piles/ac	54	\$426.00	\$23,004.00
Lop and Scatter	44	\$45.00	\$1,980.00
Total Appraised Cost			\$24,984.00

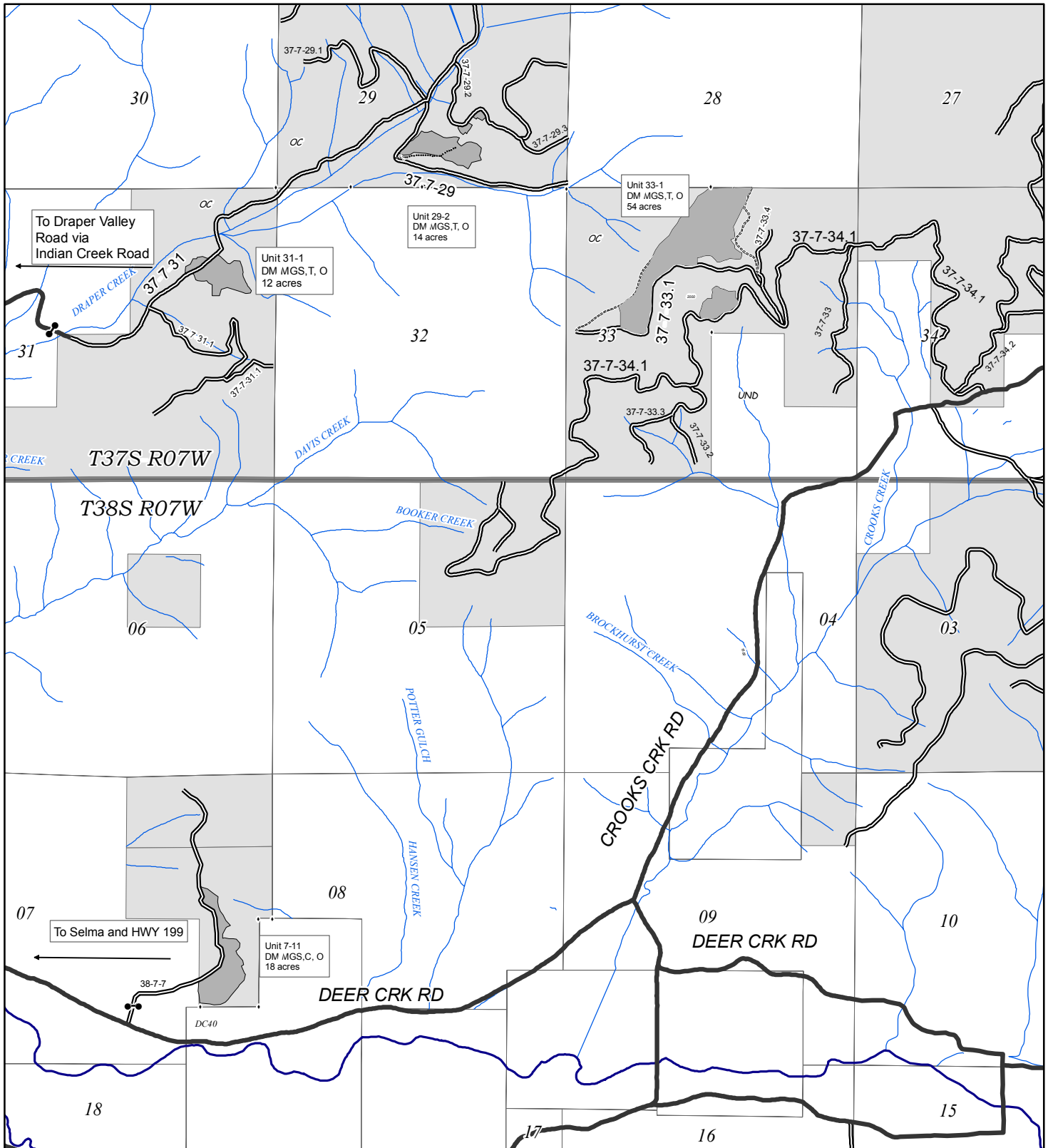
- (c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatment designated pursuant to section 41(G)(2)(a) differs from \$24,984.00 as calculated by using the estimated acres determined by the Authorized Officer and the per acre cost listed in Section 41(G)(2)(a).

(H) Equal Opportunity in Employment

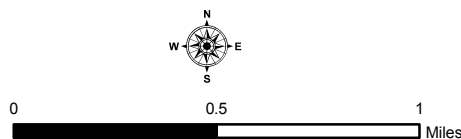
Certification of Nonsegregated Facilities attached hereto and made a part hereof.

USDI BLM MEDFORD DISTRICT SALE
DEER NORTH TIMBER SALE
GRANTS PASS RESOURCE AREA

TIMBER SALE LOCATION MAP
CONTRACT NUMBER TS 11-04



United States
Department of the Interior
Bureau of Land Management
Medford District
Grants Pass Resource Area
Grants Pass Interagency Office
2164 NE Spalding Avenue
Grants Pass, Oregon 97526

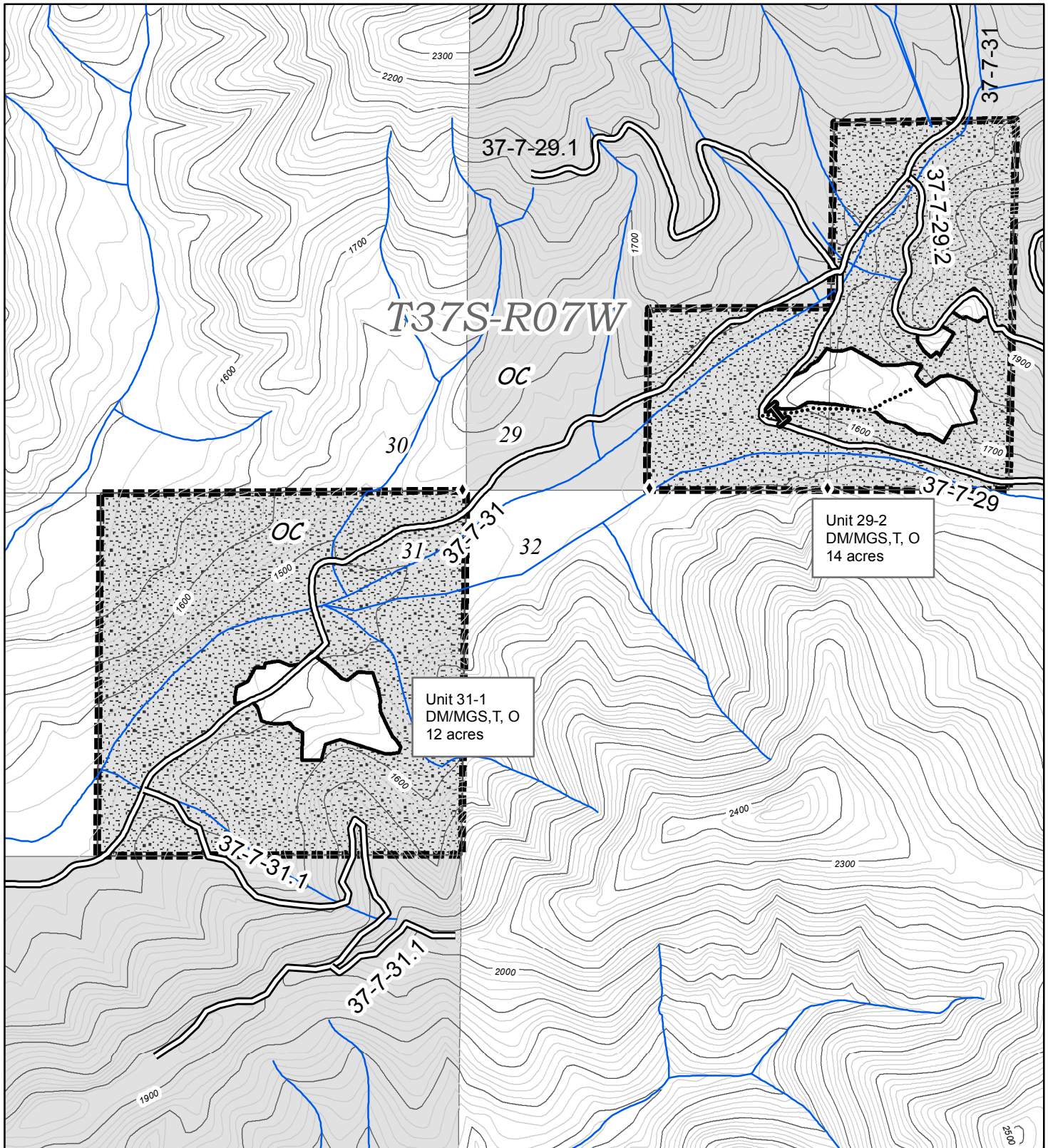


No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data

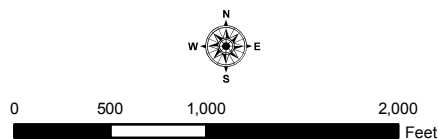
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USDI BLM MEDFORD DISTRICT SALE
DEER NORTH TIMBER SALE
T37S, R07W, Section 29 and 31
GRANTS PASS RESOURCE AREA

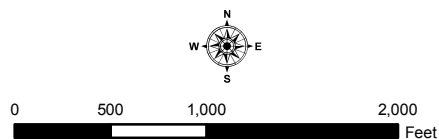
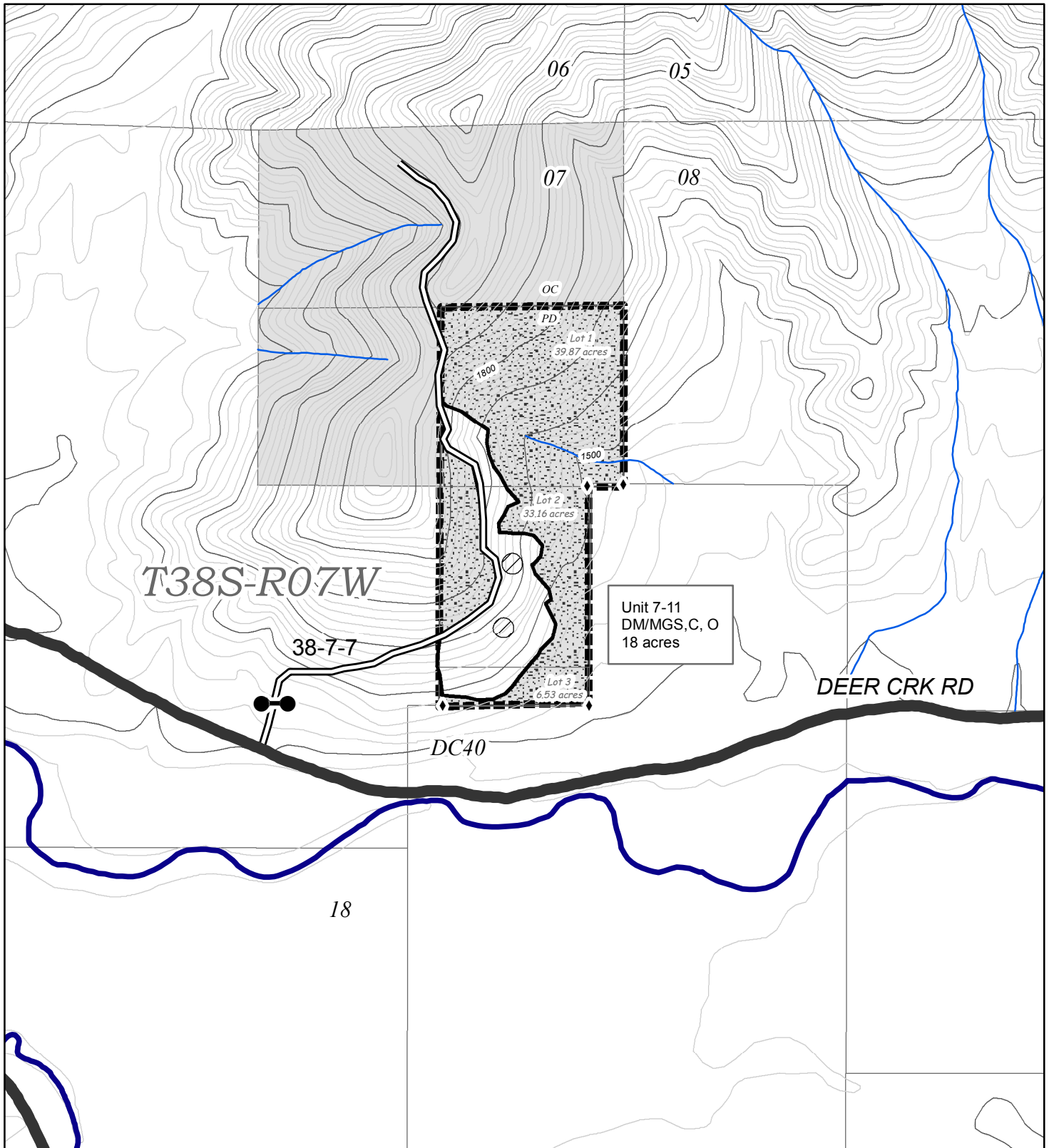
TIMBER SALE CONTRACT MAP
CONTRACT NUMBER TS 11-04
EXHIBIT A
Page 1 OF 4

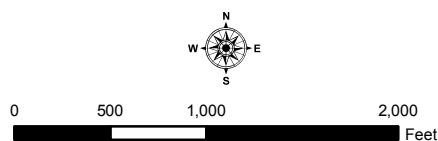
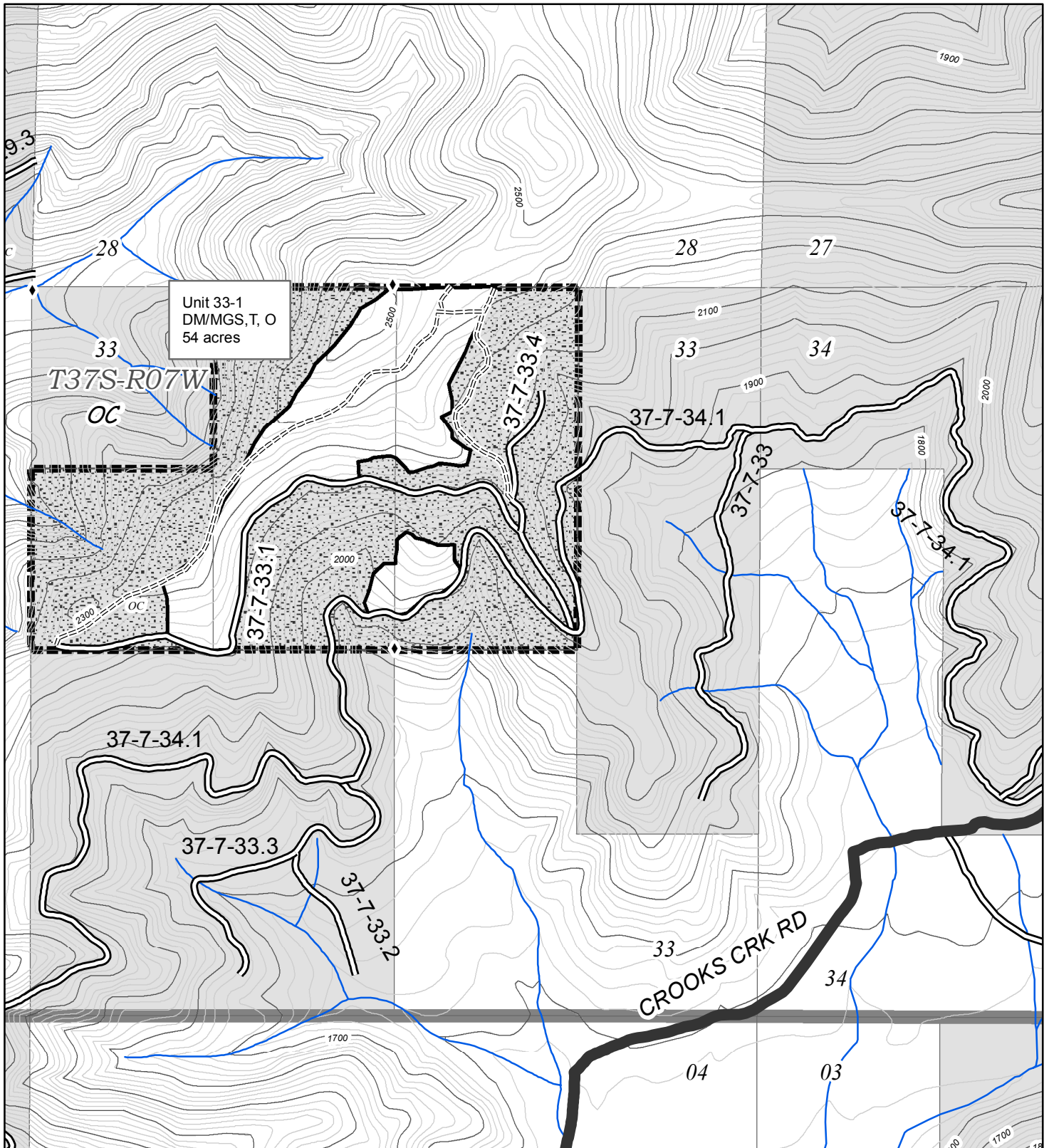


United States
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Medford District
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2164 NE Spalding Avenue
Grants Pass, Oregon 97526



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April 06, 2011





USDI BLM MEDFORD DISTRICT SALE
LEGEND PAGE
DEER NORTH TIMBER SALE
GRANTS PASS RESOURCE AREA

Legend and Unit
Summary Page

TIMBER SALE CONTRACT MAP
CONTRACT NUMBER TS 11-04
EXHIBIT A
PAGE 4 OF 4

Map Symbol	Prescription/Logging System/Marking Method	Acres	Unit Number
DM/MGS-C-O	Density Management with Modified Group Selections/Cable Yard/ Reserve Trees are Orange Marked	18	Unit 7-11
DM/MGS-T-O	Density Management with Modified Group Selections/Tractor Yard/ Reserve Trees are Orange Marked	80	Unit 29-2, 31-1,33-1
	Total Cutting Area	98	
	Reserve Area	461.56	
	Total Contract Area	559.56	

Unit Number	Logging	Acres
Unit 7-11	DM/MGS-C-O	18
Unit 29-2	DM/MGS-T-O	14
Unit 31-1	DM/MGS-T-O	12
Unit 33-1	DM/MGS-T-O	54
	Total	98

Logging Systems	
Method	Acres
Cable	18
Tractor	80
Total	98

===== Existing Unimproved Road

..... Spur To Construct

===== Existing Road

——— 20 foot contours



Reserve Area



BLM Lands



Timber Sale Unit



Administrative Withdrawal Areas
Unit 7-11, Boundaries Flagged in Orange.



Existing Gate



Contract boundary



Block Road After Use with
Log/Earth Barricade

O&C BLM lands: Oregon & California

PD BLM lands: Public Domain

PVT Private Land



Survey Marker

Unit boundaries are flagged in orange ribbon, posted, and painted.
Unit acreages were determined by the Global Positioning System (GPS).

April 12, 2011



United States of America
Department of the Interior
Bureau Of Land Management
Timber Sale Appraisal

District : Medford	Contract # : TS 11-04
Sale Name : Deer North	Job File # : 266
Sale Date : 07/28/2011	Master Unit : Josephine
Appraisal Method : 16' MBF	Planning Unit : Grants Pass

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**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Timber - Sale - Summary**

Medford
Deer North
TS 11-04

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	37S	7W	29	SE1/4SW1/4, W1/2SE1/4
O&C	37S	7W	31	NE1/4
O&C	37S	7W	33	W1/2NE1/4, E1/2NW1/4, SW1/4NW1/4
PD	38S	7W	7	Lot 1, 2, 3

Cutting Volume (16' MBF)

Unit	DF	SP	PP	IC					Total	Regen	Partial	ROW
7-11	347	5	10	1					363	0	18	0
29-2	171	4	4						179	0	14	0
31-1	129								129	0	12	0
33-1	513	18	5						536	0	54	0
Totals	1,160	27	19	1					1,207	0	98	0

Logging Costs per 16' MBF

Stump to Truck	\$	136.21
Transportation	\$	73.84
Road Construction	\$	21.13
Road Amortization	\$	0.00
Road Maintenance	\$	6.52
Other Allowances :		

Fuels Treatment	\$ 20.70
Other Costs	\$ 3.73
Total Other Allowances :	\$ 24.43

Profit & Risk

Total Profit & Risk	8 %
Basic Profit & Risk	7 % + Additional Risk 1 %
Back Off	15 %

Tract Features

Avg Log	Douglas-fir : 58 bf	All : 59 bf
Recovery	Douglas-fir : 90 %	All : 90 %
Salvage	Douglas-fir : 1 %	All : 1 %
Avg Volume (16' MBF per Acre)		12
Avg Yarding Slope		20 %
Avg Yarding Distance (feet)		350
Avg Age		0
Volume Cable		30 %
Volume Ground		70 %
Volume Aerial		0 %
Road Construction Stations		0.00
Road Improvement Stations		0.00
Road Renovation Stations		365.90
Road Decommission Stations		0.00

Cruise

Cruised By	A. Franks, D. Caulfield, K. Dowding
Date	03/01/2011
Type of Cruise	3-P and 100%
County, State	Josephine, OR

Net Volume

Green (16' MBF)	1,195
Salvage (16' MBF)	12
Douglas-fir Peeler	35
Export Volume	0
Scaling Allowance (\$0.75 per 16' MBF)	\$905.25

Total Logging Costs per 16' MBF

\$ 262.13

Utilization Centers

Center #1 : Glendale, OR	58 Miles
Center #2	0 Miles
Weighted distance to Utilization Centers	58

Length of Contract

Cutting and Removal Time	36 Months
Personal Property Removal Time	1 Months

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Medford
Deer North
TS 11-04

Stumpage Summary

Stumpage Computation (16' MBF)

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	6,091	1,160	\$ 423.93	\$ 33.91	\$ 262.13		\$ 19.18	\$ 108.70	\$ 126,092.00
SP	138	27	\$ 319.85	\$ 25.59	\$ 262.13		\$ 4.82	\$ 32.00	\$ 864.00
PP	56	19	\$ 304.71	\$ 24.38	\$ 262.13		\$ 2.73	\$ 30.50	\$ 579.50
IC	5	1	\$ 553.00	\$ 44.24	\$ 262.13		\$ 36.99	\$ 209.60	\$ 209.60
Totals	6,290	1,207							\$ 127,745.10

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Incense-cedar				31.0	67.0	2.0
Sugar Pine				43.0	50.0	7.0
Ponderosa Pine				48.0	49.0	3.0
Douglas-fir			3.0	54.0	36.0	6.0

Marginal Log Volume

Species	Grade #7	Grade #8
Incense-cedar		
Sugar Pine		
Ponderosa Pine		
Douglas-fir	613	

Appraised By : Franks, Annie

Date : 05/24/2011

Area Approval By : Caulfield, Dave

Date : 06/02/2011

District Approval By :

Date :

**UNITED STATES
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Medford
Deer North
TS 11-04

Prospectus

Appraisal Method : (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	6,091	1,160	955	2,046
Sugar Pine	138	27	22	47
Ponderosa Pine	56	19	15	31
Incense-cedar	5	1	1	2
Total	6,290	1,207	993	2,126

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
1,344	6,290	213	14.4	1,319	22,423	58

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
22,423	507	22,930	3	1,207	1,344	90 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
1,292	6,091	212	14.3	1,270	21,750	58

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
21,750	442	22,192	3	1,160	1,292	90 %

Cutting Areas

Unit	Regen Acres	Partial Cut Acres	Right Of Way Acres	Total Acres
7-11		18		18
29-2		14		14
31-1		12		12
33-1		54		54
Totals :		98		98

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

Medford
Deer North
TS 11-04

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 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 provided in Section 2, Purchaser shall be liable for the total purchase price even though the 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 the Exhibit A.

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	1,160		
Sugar Pine	27		
Ponderosa Pine	19		
Incense-cedar	1		
Sale Totals	1,207		

Unit Details (16' MB)

Unit 29-2 14 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	171		
Ponderosa Pine	4		
Sugar Pine	4		
Unit Totals	179		

Unit 31-1 12 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	129		
Unit Totals	129		

Unit 33-1 54 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	513		
Ponderosa Pine	5		
Sugar Pine	18		
Unit Totals	536		

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

Medford
Deer North
TS 11-04

Unit 7-11 18 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	347		
Incense-cedar	1		
Ponderosa Pine	10		
Sugar Pine	5		
Unit Totals	363		

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

Medford
Deer North
TS 11-04

Sale Volume Totals

98 Acres 0 Regen 98 Partial 0 R/W 4 Units

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	6,091	21,750	442	1,160	1,270	1,292	955	1,046	1,064	2,046	2,238	2,281
Sugar Pine	138	443	36	27	28	29	22	23	24	47	50	52
Ponderosa Pine	56	217	28	19	20	22	15	16	17	31	33	36
Incense-cedar	5	13	1	1	1	1	1	1	1	2	2	2
Totals	6,290	22,423	507	1,207	1,319	1,344	993	1,086	1,106	2,126	2,323	2,371

Unit Totals

Unit : 7-11 18 Acres 0 Regen 18 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,635	6,501	132	386	379	347
Ponderosa Pine	15	81	13	11	11	10
Sugar Pine	26	88	6	5	5	5
Incense-cedar	5	13	1	1	1	1
Unit Totals	1,681	6,683	152	403	396	363

Unit : 29-2 14 Acres 0 Regen 14 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	766	3,209	65	191	187	171
Ponderosa Pine	9	38	4	5	4	4
Sugar Pine	8	35		5	4	4
Unit Totals	783	3,282	69	201	195	179

Unit : 31-1 12 Acres 0 Regen 12 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	762	2,420	49	144	141	129
Unit Totals	762	2,420	49	144	141	129

Unit : 33-1 54 Acres 0 Regen 54 Partial 0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,928	9,620	196	571	563	513
Sugar Pine	104	320	30	19	19	18

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

Medford
Deer North
TS 11-04

Ponderosa Pine	32	98	11	6	5	5
Unit Totals	3,064	10,038	237	596	587	536

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Medford
Deer North
TS 11-04

Stump to Truck Costs

Total (16' MBF)

Total Stump to Truck Costs	Net Volume	Cost / Net Volume
\$ 164,408.25	1,207	\$ 136.21

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Track Skidder	GM MBF	923	\$ 110.38	\$ 101,880.74
Short Twr<40	GM MBF	396	\$ 151.66	\$ 60,057.36
Subtotal				\$ 161,938.10

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Directional Falling	MBF	121	\$ 12.15	\$ 1,470.15
Subtotal				\$ 1,470.15

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Dozer	2	\$ 500.00	\$ 1,000.00
Subtotal			\$ 1,000.00

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

Medford
Deer North
TS 11-04

Other Allowances Costs

Total (16' MBF)

Total Other Allowances Costs	Net Volume	Cost / Net Volume *	Total Buy Out Cost
\$29,482.50	1,207	\$24.43	\$0.00

Fuels Treatment

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Lop and Scatter-Lvl 4	\$ 1,980.00	\$ 1.64	N	\$ 0.00
Hand Pile, Cvr - Level 6	\$ 23,004.00	\$ 19.06	N	\$ 0.00
Subtotal	\$ 24,984.00	\$ 20.70		\$ 0.00

Other Costs

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Skid Location	\$ 144.00	\$ 0.12	N	\$ 0.00
Additional Tractor Time	\$ 900.00	\$ 0.75	N	\$ 0.00
Ripping	\$ 1,350.00	\$ 1.12	N	\$ 0.00
Additional Tractor Time	\$ 75.00	\$ 0.06	N	\$ 0.00
Barricades	\$ 75.00	\$ 0.06	N	\$ 0.00
Mulching (2 hours/5 bales)	\$ 468.00	\$ 0.39	N	\$ 0.00
Hand Seeding @ 17 lb seed per hour	\$ 373.50	\$ 0.31	N	\$ 0.00
Waterbar Skids	\$ 825.00	\$ 0.68	N	\$ 0.00
Equipment Washing	\$ 288.00	\$ 0.24	N	\$ 0.00
Subtotal	\$ 4,498.50	\$ 3.73		\$ 0.00

* Cost / Net Volume has been rounded to the nearest \$0.01 Subtotals may not tie to Sale Total Cost / Net Volume.

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

Medford
Deer North
TS 11-04

General

Yarding & Loading

STUMP TO TRUCK:

Track Skidder: \$4/gallon diesel for loader and skidder, \$360/day (3 chainsaws) manual falling/delimbing

Short Twr<40: \$4/gallon diesel for loader, tower yarder, and stroke delimber, \$360/day (1.5 chainsaws) manual falling/delimbing

OTHER YARD & LOADING COSTS:

Directional Falling: Estimate no more than 121 MBF at \$12.15/MBF

ADDITIONAL MOVE-INS:

Dozer: Allowing 2 additional move-ins for tractor units

Road Costs

Construction cost is for renovation of roads. (See "Summary of All Roads and Projects" sheet in Engineering Appraisal)

(see Engineering Appraisal for details).

Transportation

Transportation: Average 58 miles one-way to utilization center

(see Transportation appendix for details).

Other Allowances

FUELS TREATMENT:

Lop and Scatter-Lvl 4(20 tons/acre): Units 7-11, 29-2 and 31-1. 44 acres total at \$45/acre for a total of \$1,980.00

Hand Pile, Cvr(21-40 piles/ac): Unit 33-1. 54 acres total at \$426/acre for a total of \$23,004.00

OTHER COSTS:

Skid Location: Estimate no more than 1 day for skid location (3 units of tractor for 80 acres) (9 hrs x \$16/hr = \$144)

Additional Tractor Time: Construct/Improve Spur (Temp) Road in units 29-2 and 33-1, estimate no more than 12 hours (12 hrs x \$75/hr = \$900)

Ripping: Estimate no more than 9 acres of ripping (skids, landing, temp spur) (9 acres x \$150/acre = \$1,350)

Additional Tractor Time: Blocking skid roads, estimate no more than 1 hour to block skid roads (1 hr x \$75/hr = \$75)

Barricade: Estimate no more than 1 hour for 1 barricade in unit 29-2 (1 hr x \$75/hr = \$75)

Mulching: Estimate no more than 9 acres of mulching (ripped skids, landings, temp spurs) (9 acres x \$52/acre = \$468)

Hand Seeding: Estimate no more than 1 day for hand seeding (ripped skids, landings, temp spurs) (9 hrs x \$41.50/hr = \$373.50)

Waterbar Skids: Estimate no more than 11 hours to waterbar (skids, temp spurs) 11 hrs x \$75/hr = \$825)

Equipment Washing: Allowing for 2 days (18 hours) for equipment washing

Prospectus

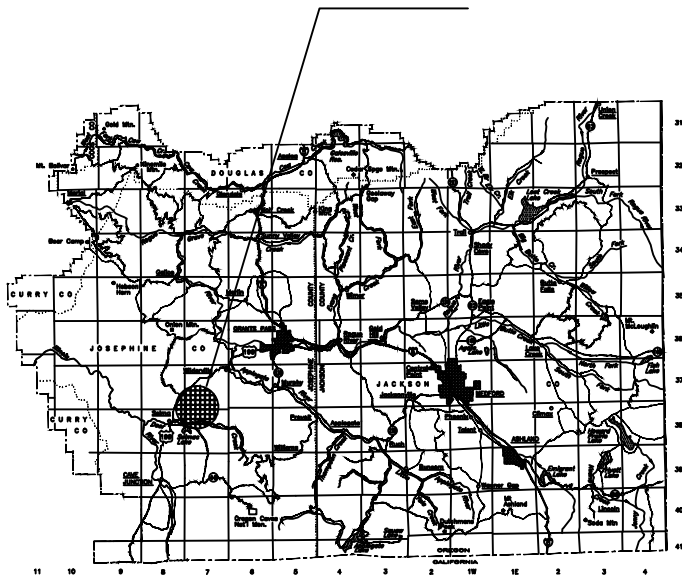
All douglas-fir cruised 3-P, all minors cruised 100%

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT

DEER NORTH TIMBER SALE

TRACT NO. 11-04

EXHIBIT C 1
SHEET 1 OF 1



C-1	Title Sheet
C-2	Exhibit C Road Location Map
C-3	Estimate of Quantities
C-4	Specification Sheet
C-5	Culvert Asbuilt Details
C-6	Roadside Brushing Detail
C-7	Renovation Work List
C-8	Exhibit C Specifications
D-1	Exhibit D Maintenance Specifications
D-2	Exhibit D Map

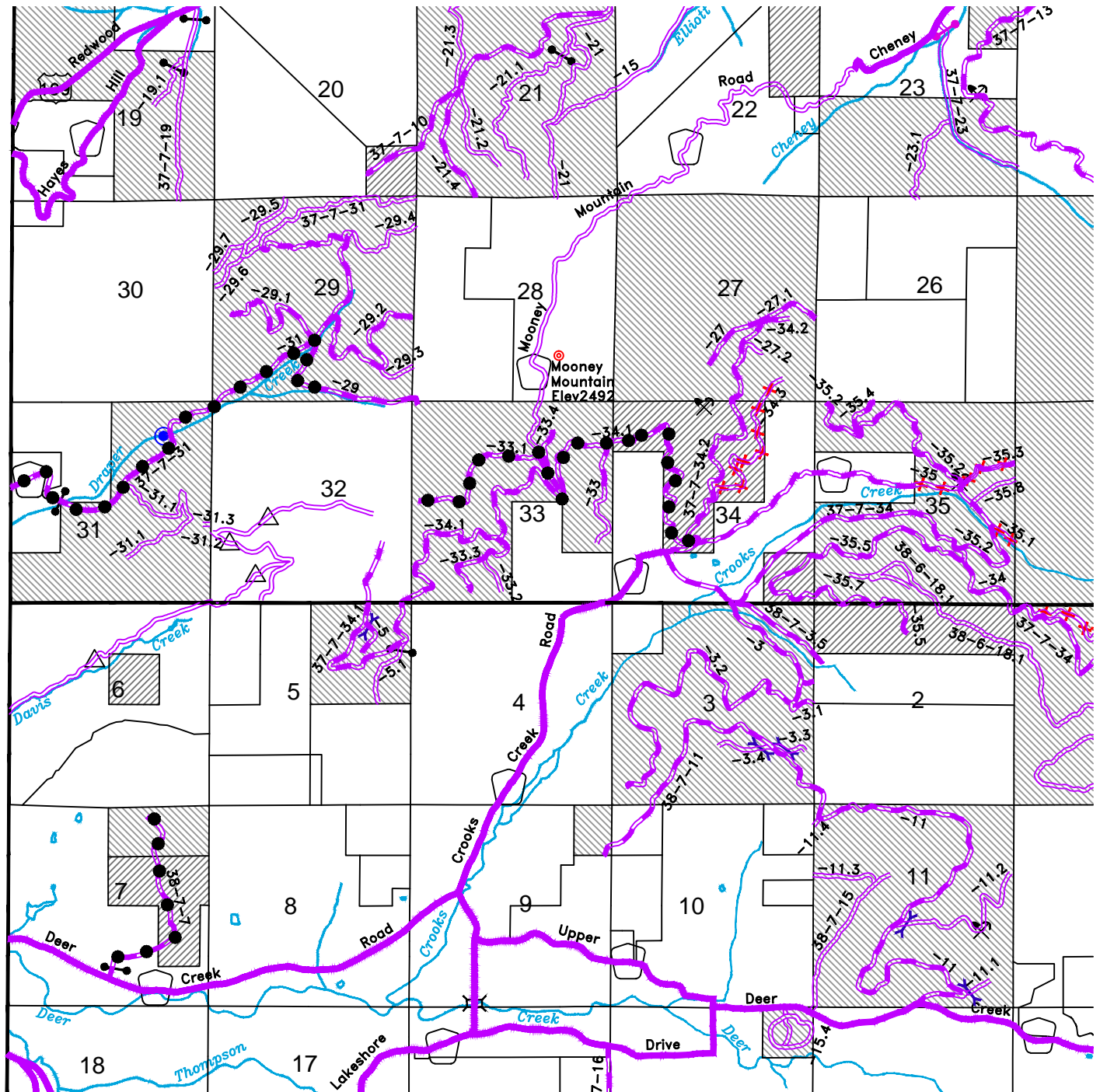


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, OREGON

TITLE SHEET

DESIGNED _____
REVIEWED _____
APPROVED _____
DRAWN JWR SCALE AS SHOWN

S37
S38



0 3/4
SCALE IN MILES

LEGEND

- Road To Be Renovated
- Existing Gate
- BLM Lands
- Rock Surface Road
- Natural Surface Road
- Paved Road



Township 37 South, Range 7 West
Township 38 South, Range 7 West

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON	
EXHIBIT C ROAD LOCATION MAP	
DESIGNED	_____
REVIEWED	_____
APPROVED	_____
DRAWN: JWR	SCALE: 1" = 3/4 MILE
DATE: MAY 2011	SHEET: 1 OF 1
DRAWING NO.	

EXHIBIT C 3
SHEET 1 **OF** 1

ROAD NUMBER	FROM	TO	LENGTH	CLEARING AND GRUBBING	EXCAVATION		CORRUGATED METAL PIPE								RENOVATION	AGGREGATE				Lign Sulfonate	SEPA BARRICADE	ROADSIDE BRUSHING	GRUTATION
					ROCK	COMMON	SIZE			ELBOWS	DOWNSPOUT												
							12"	18"	24"		4"	6"	8"	10"									
SPECIFICATION NO. →				200	300	300	400	400	400	400	400	400	400	400	500	900	1000	1200	3400		2100	8000	
UNIT →	MP/STA	MP/STA	MILE/STA	ACRE	C.Y.	C.Y.	L.F.	L.F.	L.F.	EA.	L.F.	L.F.	L.F.	L.F.	MILE	C.Y.	C.Y.	C.Y.	Ton	EA	MILE	STA.	
37-7-29	0.00	0.24	0.24.55												0.24	○	○	○			0.24		
37-7-31A	0.00	1.61	1.61												1.61	○	○	○			1.61		
37-7-33.01	0.00	1.06	1.06												1.06	○	○	○			1.06		
37-7-34.01	0.00	1.83	1.83												1.83	○	○	○			1.83		
37-7-7	0.00	1.13	1.13												1.13	○	248 ^(D)	○			1.13		
Indian Creek County Road	0.00	1.06	1.06												1.06	○	○	○	24.9				
																○	○	○					
																○	○	○					

ITEM 3400

Lignin Sulfonate @ .4gals/s.y.

ITEM 1200
SIZE GRADE
1 inch minus D

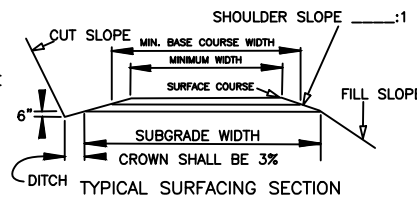
* FOR INFORMATIONAL USE ONLY.
QUANTITIES SHOWN ARE NOT PAY ITEMS.

**Indicate gradation in circle. ○

REV.	NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON				
ESTIMATE OF QUANTITIES*				
DESIGNED _____				
REVIEWED _____				
APPROVED _____				
DRAWN	DATE	SCALE	NONE	
DATE August 2006	SHEET	1 OF 1		
DRAWING NO.		OR-117-06-25-C3		

EXHIBIT C 4
SHEET 1 OF 1

NOTES



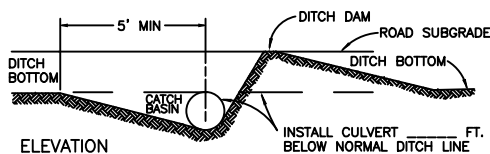
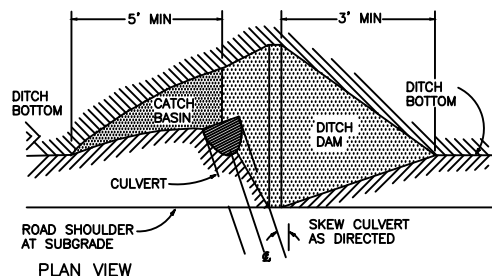
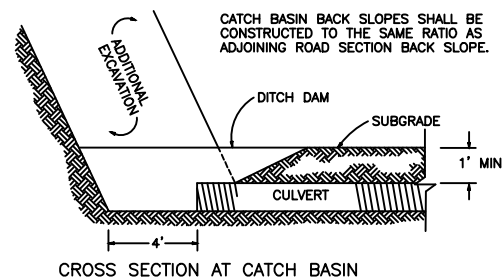
2. SURFACING TYPE
- A. PIT RUN ROCK MATERIAL.
- B. GRID ROLLED ROCK MATERIAL.
- C. SCREENED ROCK MATERIAL.
- D. CRUSHED ROCK MATERIAL.

<u>MATERIALS</u>	<u>CUT SLOPES</u>	<u>FILL SLOPES</u>
COMMON	3/4:1	1 1/2:1
SOFT ROCK & SHALE	1/2:1	1 1/2:1
SOLID ROCK	1/2:1	ANGLE OF REPOSE
FULL BENCH CONSTRUCTION IS REQUIRED ON SIDE SLOPES EXCEEDING 60%.		

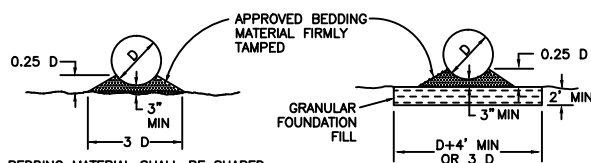
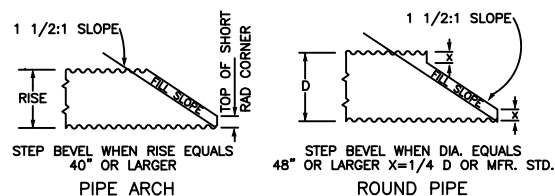
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, OREGON

*SPECIFICATION
SHEET*

DESIGNED _____	
REVIEWED _____	
APPROVED _____	
DRAWN DCM	SCALE NONE
August 2006	SHEET 1 OF 1
DRAWING NO. OR-117-06-28-C4	



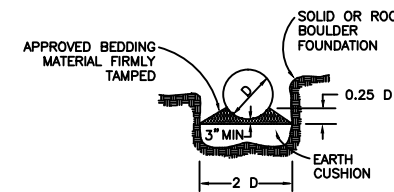
CATCH BASIN



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

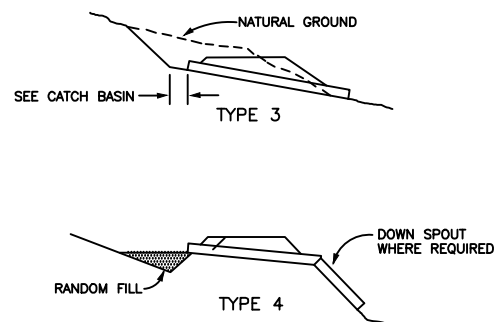
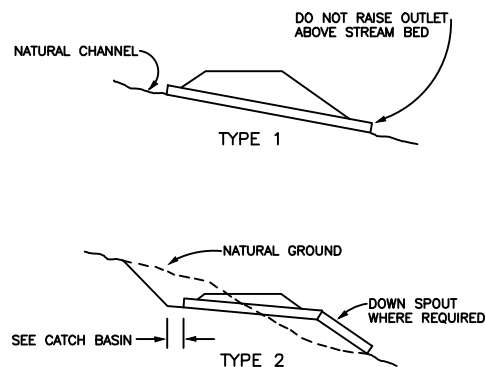
BEDDING MATERIAL SHALL BE SHAPED TO
FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON
SOFT SPONGY OR UNSTABLE
SOIL FOUNDATION

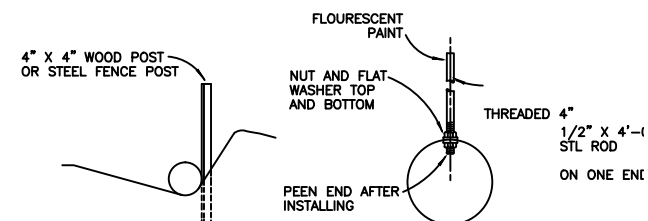


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE
BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY
CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE
PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS
WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAIN-
TAIN 8" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS
AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT.

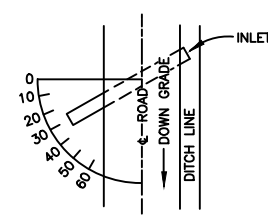
BEDDING OF CULVERTS



CULVERT INSTALLATION TYPES



INSTALL MARKERS NOT MORE THAN 6" BACK FROM END OF CULVERT



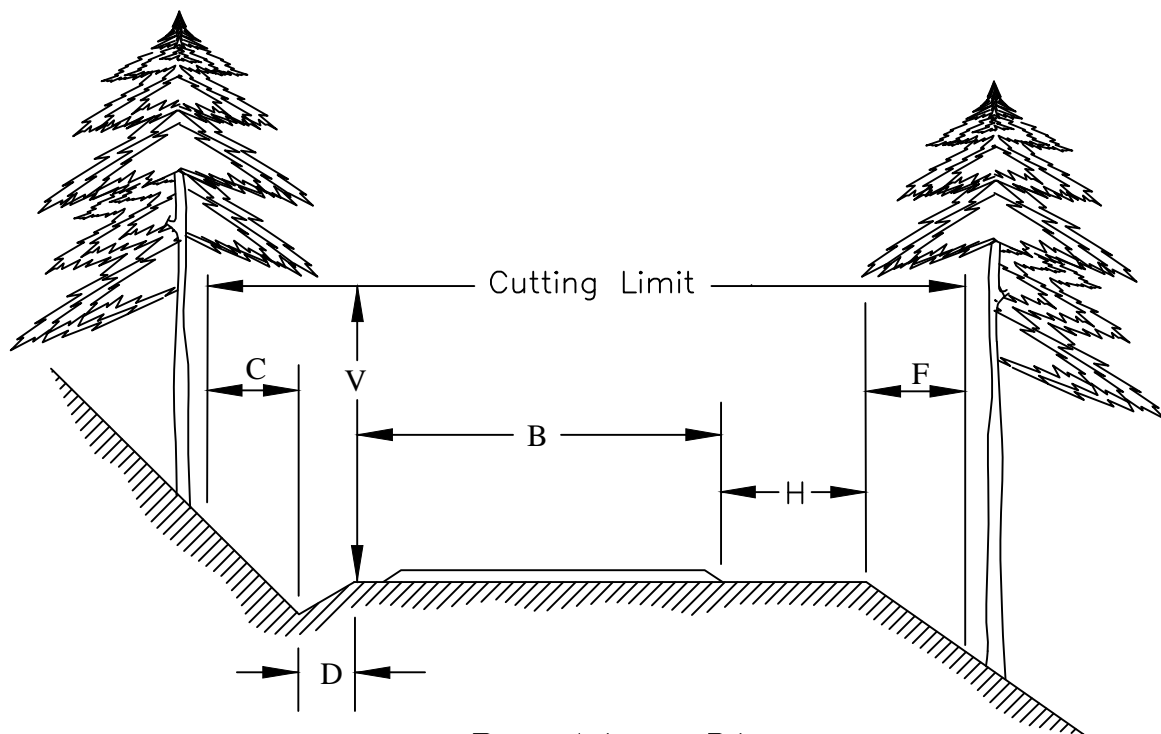
THE GRADE OF CROSDRAINS SHALL
BE AT LEAST 2% GREATER THAN THE
GRADE OF THE DITCH.

UNITED STATES DEPARTMENT OF THE I
BUREAU OF LAND MANAGEMENT
MEDFORD DISTRICT - MEDFORD, O

CULVERT ASBUL DETAILS

DESIGNED _____
REVIEWED _____
APPROVED _____

DRAWN JWR SCALE NON
DATE August 2006 SHEET 1 OF
DRAWING NO. OR-117-06-28-



Brushing Diagram

$$\text{Cutting Limit} = C + D + B + H + F$$

B = Basic lane width (includes turnouts)
Width shall be determined by the PI

C = 6 ft - Distance to be brushed on cut slope
beyond centerline of ditch

D = Centerline of ditch to inside shoulder

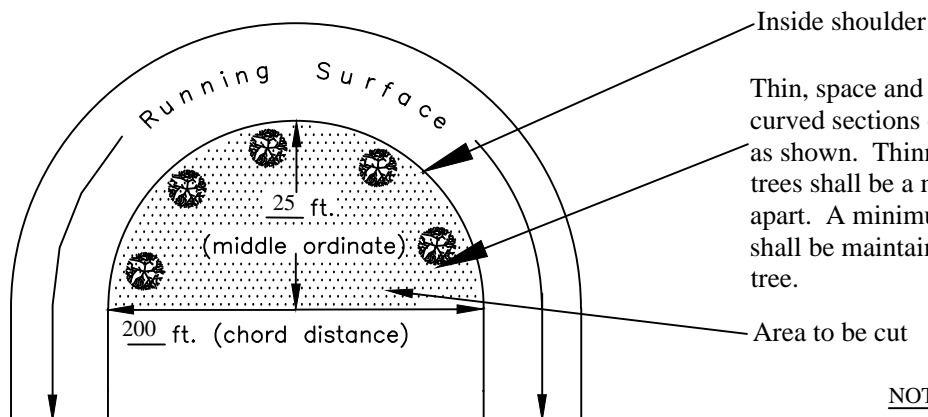
H = Variable distance between edge of basic lane and
outside shoulder (does not include turnout widths)

F = Distance to be brushed on fill slope beyond outside shoulder
(F = 6 when H is 6 ft or less)
(F = 0 when H is greater than 4 ft)

V = 14 ft - Height of vertical cutting limit

Typical Basic lane widths

One lane low traffic volume 12 to 16 ft
One lane medium traffic volume . . 16 to 20 ft
Two lane high volume traffic 20 to 40 ft
Turnouts 10 ft



Sight Distance Diagram

Thin, space and prune trees through
curved sections of road for visibility
as shown. Thinning and spacing of
trees shall be a minimum (10) feet
apart. A minimum (1/3) tree crown
shall be maintained on any pruned
tree.

NOTES:

Cutting and Removal of vegetation
from ditches and roadway is incidental
to brushing within cutting limits.

All distances shown are horizontal except for V

UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD,	
ROADSIDE BRUSHING DETAIL	
DESIGNED	_____
REVIEWED	_____
APPROVED	_____
DRAWN RRB	SCALE
DATE August 2006	SHEET 1
DRAWING NO.	OR-117-06-

DEER NORTH TIMBER SALE

Road Renovation Work List

cy = Cubic Yards
CMP = Corrugated Metal Pipe
ASC = Aggregate Surface Course
ABC = Aggregate Base Course
PRR = Pit Run Rock

Road 37-7-29

Milepost

0.00	Begin Project, Existing 14' ABC w/Ditch. Begin Roadside Brushing, Clean Ditches, Grading
0.02	Existing 18" CMP Type 1
0.04	Existing 5' Diameter CMP Type 1
0.24	End Project.

Road 37-7-31A

Milepost

0.00	Begin Project, Existing 16' ABC w/Ditch. Begin Roadside Brushing, repair potholes, spot rock, pull ditches and Blading. Existing Major concrete culvert. Existing Gate #055
0.19	Existing 18" CMP, Type 3
0.25	Existing 18" CMP, Type 1
0.34	Existing 18" CMP, Type 3
0.38	Intersection 37-7-31.1
0.44	Existing 18" CMP, Type 3

Milepost

0.76	Existing Major concrete culvert Type 1
0.82	Existing Spur Road Left
0.84	Existing 18" CMP, Type 1
0.94	Existing 18" CMP, Type 1
1.06	Intersection Roads Left & Right
1.09	Existing 18" CMP, Type 1
1.17	Existing 18" CMP, Type 3
1.21	Existing 18" CMP, Type 1
1.25	Existing 18" CMP, Type 1
1.36	Existing 18" CMP, Type 3
1.41	Existing 18" CMP, Type 3
1.47	Existing 18" CMP, Type 1
1.55	Existing 18" CMP, Type 1
1.61	Intersection Road 37-7-29, End of Project

Road 37-7-33.01

Milepost

0.00	Begin Project, Existing 17' PRR w/ditch. Begin Roadside Brushing, pull ditches and Blading.
0.15	Intersection 37-7-34.01
0.16	Existing 18" CMP, Type 3
0.25	Existing 18" CMP, Type 3
0.32	Existing 18" CMP, Type 3
0.42	Existing 18" CMP, Type 3
0.50	Existing 18" CMP, Type 3
0.69	Existing 18" CMP, Type 3

Milepost

0.81	Existing 18" CMP, Type 3
0.92	Existing 18" CMP, Type 3
1.06	End of Project

Road 37-7-34.01A

Milepost

0.0	Begin Project, Existing 17' ASC w/Ditch. Begin Brushing, Clean Ditches, Blading.
0.13	Existing 18" CMP, Type 3
0.24	Existing 18" CMP, Type 1
0.40	Existing 18" CMP, Type 1
0.41	Existing 18" CMP, Type 1
0.52	Existing 18" CMP, Type 3
0.62	Existing 18" CMP, Type 3
0.81	Existing 18" CMP, Type 1
0.89	Existing 18" CMP, Type 3
0.95	Existing 18" CMP, Type 1
1.08	Existing 18" CMP, Type 1
1.20	Existing 18" CMP, Type 1
1.22	Stockpile
1.24	Existing 18" CMP, Type 1
1.25	Intersection Rd. 37-7-33
1.34	Existing 18" CMP, Type 3
1.47	Existing 18" CMP, Type 1
1.50	Existing 18" CMP, Type 1
1.60	Existing 18" CMP, Type 1
1.69	Existing 18" CMP, Type 3
1.83	End Project, Intersection 37-7-33.01

Road 38-7-7

Milepost

0.00	Begin Project, Existing 16' ASC w/Ditch. Begin Brushing, Clean Ditches, Blading.
0.04	Gate 054
0.30	Existing 18" CMP, Type 3
0.49	Existing 18" CMP, Type 3
0.59	Existing 18" CMP, Type 3
0.68	Existing 18" CMP, Type 3
0.76	Existing 18" CMP, Type 3
1.02	Existing 18" CMP, Type 3
1.13	End of Project

Indian Creek County Road

Milepost

0.00	Begin Project, Existing 20' Natural Road w/Ditch. Repair Potholes, Blade, apply Dust Palliative (1 application of Lignin Sulfonate)
1.06	End Project

Total Maintenance Miles – 6.93

100 General - 100

101 - Prewrite Conference(s):

A prework conference will be held prior to the start of reconstruction, mulching, and brushing operations. The Purchaser shall request the conference at least 48 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representative(s), subcontractor(s) and/or his or their representative(s) and the Authorized Officer and/or his representative(s).

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

102 - Definitions:

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

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

ACI - American Concrete Institute.

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified

conditions, usually expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - Longitudinal center of roadbed.

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

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

design.

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

Tackifier - A compound which facilitates the penetration of the compound into

the earth and assists in creating a crust through the cohesive bonding of the surface materials to a depth sufficient to stabilize the soil surface.

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

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

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

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

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

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

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

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

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

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

102a - Tests Used in These Specifications:

AASHTO T 11 Quantity of rock finer than No. 200 sieve.

AASHTO T 27 Sieve analysis of fine and coarse aggregate using sieves with square openings;

gradation.

- AASHTO T 89 Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.
- AASHTO T 90 Plastic limits and plasticity index of soil.
a. Plastic limit - lowest water content at which the soil remains plastic.
b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.
- AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.
- AASHTO T 99 Relationship between soil moisture and maximum density of soil.
Method A - 4 inch mold, soil passing a No. 4 Sieve. 25 blows/layer & 3 layers.
Method D - 6 inch mold, soil passing a 19.00mm (3/4 inches) sieve. 56 blows/layer & 5 layers.
- AASHTO T 176 Shows relative portions of fine dust or clay-like materials in soil or graded aggregate.
- AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer and 18-in drop.
- AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
- AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 210 Durability of aggregates based on

	resistance to produce fines.
<u>AASHTO T 224</u>	Correction for coarse particles in the soil.
<u>AASHTO T 238</u>	Determination of density of soil and soil-aggregates in place by nuclear methods.
<u>AASHTO T 248</u>	Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
<u>DES. E-12</u>	Determination of relative density of cohesionless soils.
<u>DMSO (dimethyl sulfide)</u>	- Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

103 - Compaction equipment shall meet the following requirements:

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

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

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

tamping feet parallel to the axis of the roller.

- 103e - Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.
- 103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.
- The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.
- 103h - Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.
- 103i - Other. Compaction equipment approved by the Authorized Officer.

500 RENOVATION OF EXISTING ROADS - 500

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes or metal tags.
- 502 - The existing road surface shall be scarified to its full width and to a depth of 6 inches to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes or metal tags at the following location:

Road No.	From M.P.	To M.P.
37-7-29	0.00	0.24
37-7-31A	0.00	1.61
37-7-33.01	0.00	1.06
37-7-34.01A	0.00	1.83
38-7-7	0.00	1.13
Indian Cr. County Rd.	0.00	1.06

- 502a - Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 506 - The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

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

1200 AGGREGATE SURFACE COURSE - 1200
 CRUSHED ROCK MATERIAL

- 1201 - This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road.
- 1202a - Crushed rock materials used in this work may be obtained from commercial source(s) selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications in this section.
- 1203 - When crushed rock material is produced from gravel, not less than 75 percent by weight of the particles retained on the No. 4 sieve will have 4 fractured faces. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204
AGGREGATE SURFACE COURSE
CRUSHED ROCK MATERIAL

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

GRADATION

Sieve Designation	D
1½-inch	-
1-inch	100
¾-inch	-
½ inch	-
No. 4	30-60
No. 8	-
No. 30	-
No. 40	5-30
No. 200	3-15

- 1204a - The Purchaser shall be required to take one sample for each 2,000 cubic yards of crushed rock material to be utilized, or a minimum of 1 sample per day, using AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or perform testing for gradation requirements using AASHTO T 11 and AASHTO T 27 testing procedures and also perform testing for sand equivalency requirements using AASHTO T 176 testing procedures. Prior to testing, each sample shall be split, making one half of the sample, with proper identification, available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within 24 hours of sampling. The Purchaser shall provide test results for the first 500 cubic yards produced prior to commencing production crushing and hauling.

- 1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T 210.
- 1206a - The crushed rock material shall show a loss of not more than 10 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.
- 1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1207a - That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

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

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

and shall be free from stones, vegetative matter, and other deleterious materials.

- 1209 - Shaping and compacting of roadbed and base course shall be completed and approved, prior to placing crushed rock material, in accordance to the requirements of Subsection 300 for placing on the roadbed and landings and Subsection(s) 700, 800, 900, 1000 and for placing on the base course. Notification for subgrade inspection, prior to rocking, shall be 3 days prior to that inspection and shall be 10 days prior to start of rocking operations.
- 1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1211 - Crushed rock material shall be compacted by routing construction and hauling equipment over the full width of each layer placed.
- 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103f and 103h. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards or fraction thereof, of crushed rock material placed per layer.
- 1213a - Each layer of crushed aggregate surface rock placed, processed, and shaped in accordance with these specifications shall be uniformly moistened or dried to the optimum moisture content suitable for maximum compaction and compacted to full width until a uniform density of not less than 90 percent of the maximum density is attained as determined by the Oregon State Highway Division Testing Method 106-71.

2100 ROADSIDE BRUSHING-2100

- 2101 - This work shall consist of cutting and the removal of vegetation from the road prism - variable distance and inside curves in accordance with these specifications. This work shall conform to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet, at designated locations as shown in the plans.
- 2102 - Roadside brushing may be performed mechanically or manually with hand tools, including chain saws.
- 2103 - Vegetation cut manually less than 6 inches in diameter when measured 6 inches above the ground shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. All limbs will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 10 feet above the subgrade of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the subgrade shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance a middle ordinate distance of 25 feet. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.
- 2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 - Debris resulting from roadside brushing shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations.

Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.

- 2112 - Roadside brushing shall be performed during the following seasonal periods:

From	To
October 15	June 30

- 2113 - Roadside brushing shall be accomplished as specified on the plans on the roads listed below:

Road Number	Miles
37-7-29	0.24
37-7-31A	1.61
37-7-33.01	1.06
37-7-34.01A	1.83
38-7-7	1.13
Indian Cr. County Rd.	1.06

- 2117 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

3400 LIGNIN SULFONATE DUST PALLIATIVE - 3400

- 3405 - The Purchaser shall be required to furnish and apply lignin sulfonate dust palliatives in accordance with these specifications.

This work shall be performed upon acceptance of the required road construction, renovation, or improvement work and be placed prior to any timber hauling other than right-of-way timber and rock hauling.

When extended hauling has commenced during the wet weather season, the Purchaser shall apply the required dust palliative no later than July 1 of the subsequent summer

hauling season or as directed by the Authorized Officer.

Any other dust abatement necessary, as decided by the Authorized Officer, during interim periods prior to the application of the required dust palliative, shall be by use of other methods that satisfactorily mitigate any dusting problems.

The specified dust palliative shall be applied evenly over the specified road surface width of the following roads:

Road No.	From M.P.	To M.P.	Spread Width
Indian Cr. County Rd.	0.00	1.06	20'

Turnouts and extra widening shall not be included in addition to the spread width.

- 3405a - Additional lignin sulfonate dust palliative may be required at the option of the Authorized Officer when the functional qualities of the dust palliative have been reduced or become noneffective due to third party damage, rain, or other events not in control of the Purchaser.

All materials and labor shall be furnished by the Purchaser and placed in amounts and locations designated by the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost. Costs will be based upon the unit prices set forth in the current BLM timber appraisal production cost schedule.

If additional dust palliative is required due to events controlled by the Purchaser, such as split hauling season, the Purchaser shall furnish and place such material at his own expense.

- 3405b - The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate dust palliatives, at least three (3) days prior to the work. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty (30) days.
- 3406 - Prior to the application of lignin sulfonate dust palliatives, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must have one-half ($\frac{1}{2}$) to one (1) inch of relatively loose material and must be visibly moist and drying.
- 3406a - Prior to the application of bituminous dust palliatives, the roadbed shall be bladed, shaped, and compacted as directed by the Authorized Officer.
- 3406b - A light application of water to promote better penetration shall be made sufficiently in

advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.

- 3406c - The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- 3407 - The Purchaser shall furnish in duplicate, written certification, signed by vendor, of compliance with the lignin sulfonate dust palliatives material requirements specified under Subsection 3412b. Certification shall include the vehicle scale weights for each load.
- 3408 - Dust palliatives shall be applied by distribution equipment designed, equipped, maintained, and operated, in a manner that the material is uniformly applied on variable widths of surface at readily determined and controlled rates. All equipment shall be of a standard commercial type that will provide satisfactory performance.
- 3409 - The Purchaser shall notify the Authorized Officer a minimum of three (3) days in advance of application of required dust palliative.
- 3410 - The Purchaser shall prepare and submit to the Authorized Officer for his review and approval an application schedule for all dust palliative work required under this section. All such work shall be in accordance with the approved plan.
- 3411 - Required lignin sulfonate dust palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. The material shall not be applied when rain is anticipated within 24 hours of application.
- 3412 - The Purchaser shall apply to the prepared roadbed specified under Subsection 3405, a lignin sulfonate dust palliative conforming to the material requirements of Subsection 3412b. The rate of application shall be .4 gallons per yd² surface.

Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to 1½ inches of the surfacing at the purchaser's expense.

- 3412a - If required, the lignin sulfonate shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent structures and trees shall be protected from spattering or marring.

A wetting agent may be used in addition to the certified compound or mixed with the road surface preparation watering. A mix of less than 1:6000 is recommended.

Water used to dilute lignin sulfonate concentrate shall be reasonably clean and free of oil, salt, acid, alkali, vegetable matter, or any other substance injurious to the finished product.

3412b - Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a by-product of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field dilution.

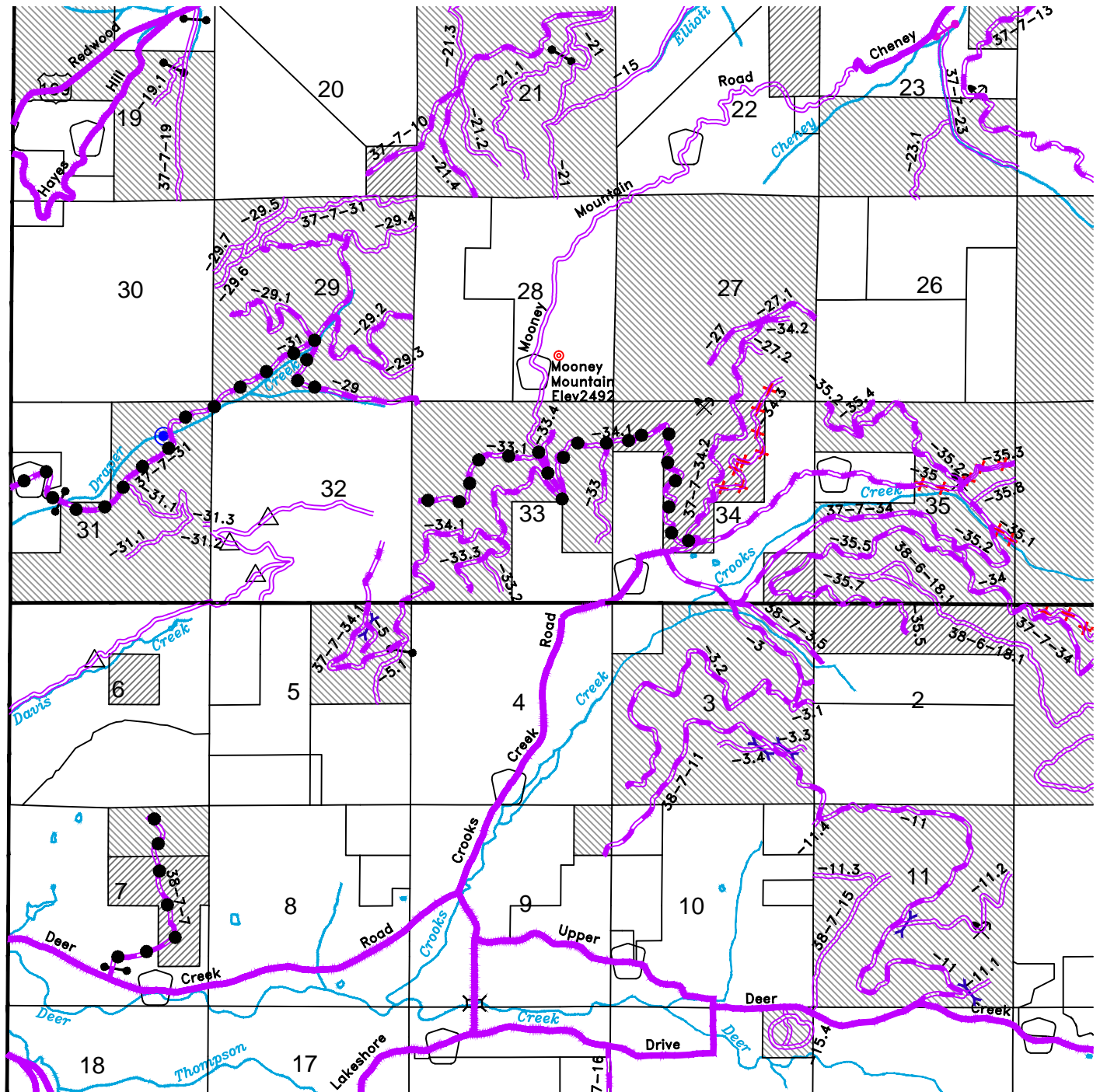
Solids determination shall be made according to the modified Technical Association of the Pulp and Paper Industry Standard T629-M53 or by a specific gravity/percent solids versus temperature graph that correlates with the standard. The pH of the applied solution shall be 4.5 minimum, as determined by AASHTO T 200.

Ammonium Lignin Sulfonate

Solids	48% min.
Moisture	50% max.
Sugars	12% max.
pH	4.5 min.
Protein	16% min.
NPH	15 max.
Ash	0.5%
Sulphur	5%
Calcium	0.025% min.
Viscosity @ 77° F	Less than 2000 CPS
lbs./gal.	10.2

- 3414 - Sampling of lignin sulfonate material may be required to validate certificates furnished by the Purchaser. When sampling is directed by the Government, the actual samples will be taken by the Purchaser or his representative, in the presence of the Authorized Officer.

S37
S38



LEGEND

- Purchaser Maintenance
- Existing Gate
- BLM Lands
- Rock Surface Road
- Natural Surface Road
- Paved Road



Township 37 South, Range 7 West
Township 38 South, Range 7 West

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON	
EXHIBIT D ROAD LOCATION MAP	
DESIGNED	_____
REVIEWED	_____
APPROVED	_____
DRAWN: JWR	SCALE: 1" = 3/4 MILE
DATE: MAY 2011	SHEET: 1 OF 1
DRAWING NO.	

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads listed and/or referenced in Section 41(C)(3) Special Provisions of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3001a - The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403, 3403a and 3404.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or gravelled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the standards required in Exhibit C of this contract.
- 3003 - The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 - The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of nonmaintained or noncleanup of the road prism, shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 - The Purchaser shall blade and shape the road surface and shoulders with a motor patrol grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 - The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 - The Purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor patrol grader, rubber-tired front-end bucket loader, rubber-tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a - Removal of bank slough and slide material includes placement of material at the nearest suitable turnout or disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or

mulched to control soil erosion.

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

Prior to removal of any slough or slide material exceeding fifteen (15) station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.

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

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

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

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

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

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such

vegetative material shall be by scattering below the road.

- 3108 - The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides, or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required by such skidding activity is not considered maintenance and shall be performed at the Purchaser's expense.
- 3108a - The Purchaser shall perform logging operations on gravel and/or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. Repair of the road shall be as specified in Subsection 3401.

SEASONAL MAINTENANCE - 3200

- 3201 - The Purchaser shall perform preventive maintenance at the end of Purchaser's hauling each season and during nonhauling periods which occur between other operations on the contract area. This includes cross ditching, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.
- 3202 - The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the preceding operating seasons.
- 3203 - The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any road(s) located in an area separate from the area where logging activities will resume.
- 3204 - The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

- 3301 - The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within 30 calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200

necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

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

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

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

OTHER MAINTENANCE - 3400

- 3401 - The Purchaser shall repair any damage to road surfaces that was specified under Subsections 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.
- 3402 - The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

Upon receiving written authorization for ice and snow removal, the Purchaser will perform the work according to the conditions and equipment requirements set forth in the Authorization.

- 3403 - The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at

the rate of one-half gallon per yd² of road surface travelled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds² of rock hauled. Subsequent waterings may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

All haul roads shall be watered for entire length and/or as approved by the Authorized Officer.

- 3403a - During dry hauling conditions when watering is not required, the Purchaser shall reduce hauling speeds to 10 MPH and/or restrict the number of loads hauled to 4 per day in lieu of watering.
- 3404 - The Purchaser may at his option and expense, substitute lignin sulfonate, magnesium chloride, or bituminous dust palliatives for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: 37-7-29 Road Name: Knight Draper C

Road Renovation: 0.24 mi 14 ft Subgrade 3 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$217.26
Blading 0.24 mi	
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.4 acres	\$218.50
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$435.76

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-7-29 Road Name: Knight Draper C

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$459.60/\text{mi} \times 0.24 \text{ mi} = \110.30

Pull Ditches: $\$153.20/\text{mi} \times 0.24 \text{ mi} = \36.77

Clean Culverts: $\$292.45/\text{mi} \times 0.24 \text{ mi} = \70.19

Subtotal: \$217.26

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Heavy: $\$624.29/\text{acre} \times 0.35 \text{ acres} = \218.50

Subtotal: \$218.50

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.78% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-7-29 Knight Draper C Continued

Total: \$435.76

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: 37-7-31A Road Name: Knight Draper

Road Renovation: 1.61 mi 14 ft Subgrade 3 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,457.45
Blading 1.61 mi	
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.3 acres	\$1,460.84
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$2,918.29

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-7-31A Road Name: Knight Draper

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$459.60/\text{mi} \times 1.61 \text{ mi} = \739.96

Pull Ditches: $\$153.20/\text{mi} \times 1.61 \text{ mi} = \246.65

Clean Culverts: $\$292.45/\text{mi} \times 1.61 \text{ mi} = \470.84

Subtotal: \$1,457.45

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Heavy: $\$624.29/\text{acre} \times 2.34 \text{ acres} = \$1,460.84$

Subtotal: \$1,460.84

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 11.93% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-7-31A Knight Draper Continued

Total: \$2,918.29

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: 37-7-33.01 Road Name: Mooney Mtn. West

Road Renovation: 1.06 mi 14 ft Subgrade 3 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$959.57
Blading 1.06 mi	
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.5 acres	\$961.41
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$1,920.97

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-7-33.01 Road Name: Mooney Mtn. West

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$459.60/\text{mi} \times 1.06 \text{ mi} = \487.18

Pull Ditches: $\$153.20/\text{mi} \times 1.06 \text{ mi} = \162.39

Clean Culverts: $\$292.45/\text{mi} \times 1.06 \text{ mi} = \310.00

Subtotal: \$959.57

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Heavy: $\$624.29/\text{acre} \times 1.54 \text{ acres} = \961.41

Subtotal: \$961.41

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 7.86% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 37-7-33.01 Mooney Mtn. West Continued

Total: \$1,920.97

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: 37-7-34.01A Road Name: Mooney Mtn West

Road Renovation: 1.83 mi 14 ft Subgrade 3 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,656.61
Blading 1.83 mi	
Surfacing:	\$7,452.40
1200 Quarry Name: Commercial 248 cy	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 2.7 acres	\$1,698.07
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$1,055.41.....	\$1,055.41
Quarry Development:	\$0.00
	Total: \$11,862.49

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 37-7-34.01A Road Name: Mooney Mtn West

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$459.60/mi x 1.83 mi = \$841.07

Pull Ditches: \$153.20/mi x 1.83 mi = \$280.36

Clean Culverts: \$292.45/mi x 1.83 mi = \$535.18

Subtotal: \$1,656.61

Section 1200 Crushed under 1 1/2 Quarry Name: Commercial

<u>Length</u>	<u>TopW</u>	<u>BotW</u>	<u>Depth</u>	<u>CWid</u>	<u>#TOs</u>	<u>Width</u>	<u>F.W.L</u>	<u>Taper</u>	<u>Other</u>
1.83mi	14ft	17ft	.5in	5%	10	10ft	25ft	10ft	

Rock Volume = 248cy

Production: \$9.08/cy x 248cy = \$2,251.84

Processing: \$1.23/cy x 248cy = \$305.04

Compaction: \$1.00/cy x 248cy = \$248.00

T11 Testing: \$0.07/cy x 248cy = \$17.36

T27 Testing: \$0.05/cy x 248cy = \$12.40

Stockpiling: \$1.30/cy x 248cy = \$322.40

Basic Rock Haul cost: \$0.87/cy x 248cy = \$215.76

Rock Haul -15% grades: \$1.31/cy-mi x 248cy x 2.00 mi= \$649.76

Rock Haul St& Co Roads: \$0.58/cy-mi x 248cy x 20.00 mi= \$2,876.80

Basic Water Haul cost: \$0.57/cy x 248cy = \$141.36

Water Haul -15% grades: \$0.13/cy-mi x 248cy x 2.00 mi= \$64.48

Water Haul St&Co Roads: \$0.07/cy-mi x 248cy x 20.00 mi= \$347.20

Subtotal: \$7,452.40

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Heavy: \$624.29/acre x 2.72 acres = \$1,698.07

Subtotal: \$1,698.07

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Road Number: 37-7-34.01A Mooney Mtn West Continued

	Subtotal:	\$0.00
Section 2500 Gabions:		
	Subtotal:	\$0.00
Section 8000 Miscellaneous:		
	Subtotal:	\$0.00
Mobilization:		
Construction - 44.19% of total Costs = \$0.00		
Surfacing - 100.00% by rock volume = \$1,055.41		
	Subtotal:	\$1,055.41
Quarry Development:		
Based on 100.00% of total rock volume		
	Subtotal:	\$0.00
	Total:	\$11,862.49

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: 38-7-7 Road Name: Ranch Resort

Road Renovation: 1.13 mi 14 ft Subgrade 3 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,022.93
Blading 1.13 mi	
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 1.7 acres	\$524.40
2200 Surface Treatment: 0.0 tons	\$0.00
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00

Total: \$1,547.33

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 38-7-7 Road Name: Ranch Resort

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$459.60/mi x 1.13 mi = \$519.35

Pull Ditches: \$153.20/mi x 1.13 mi = \$173.12

Clean Culverts: \$292.45/mi x 1.13 mi = \$330.47

Subtotal: \$1,022.93

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Brushing width Left: 6ft. Right: 6ft.

RoadSide Brushing Medium: \$312.14/acre x 1.68 acres = \$524.40

Subtotal: \$524.40

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 6.33% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Road Number: 38-7-7 Ranch Resort Continued

Total: \$1,547.33

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Deer North Sale Date: 8/11

Road Number: Indian Cr. Co. Road Name: County Road

Road Renovation: 1.06 mi 20 ft Subgrade 5 ft ditch

T.S. Update 04/15/10

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing:0.0 sta Grubbing:0.0 acres	
Slash Treatment:0.0 acres	
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$959.57
Blading 1.06 mi	
Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 0.0 acres	\$0.00
2200 Surface Treatment: 24.9 tons	\$5,865.20
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$0.00.....	\$0.00
Quarry Development:	\$0.00
Total:	\$6,824.76

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: Indian Cr. Co. Road Name: County Road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$459.60/\text{mi} \times 1.06 \text{ mi} = \487.18

Pull Ditches: $\$153.20/\text{mi} \times 1.06 \text{ mi} = \162.39

Clean Culverts: $\$292.45/\text{mi} \times 1.06 \text{ mi} = \310.00

Subtotal: \$959.57

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2200 Surface Treatment:

-Quantity of Material- Lignin

$5,597 \text{ ft} \times 20 \text{ ft width}/9 \text{ sq ft/sq yd} = 12,437 \text{ sq yd}$

$12,437 \text{ sq yd} \times .4 \text{ gal/sq yd} = 4,975 \text{ gallons}$

$4,975 \text{ gallons}/200 \text{ Gallon/ton} = 24.9 \text{ tons} \times \$165.00/\text{ton} = \$4,108.50$

-Application-

Spreading: $24.9 \text{ tons} \times \$10.29/\text{ton} = \$256.22$

-Hauling-

From Portland To Grants Pass $24.9 \text{ tons} \times \$51.68/\text{ton} = \$1,286.83$

Beyond Destin: (40 mph) $20 \text{ mi} \times \$0.24/\text{ton-mile} \times 24.9 \text{ tons} = \119.52

Beyond Destin: (5 mph) $2 \text{ mi} \times \$1.89/\text{ton-mile} \times 24.9 \text{ tons} = \94.12

Subtotal: \$5,865.20

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Road Number: Indian Cr. Co. County Road Continued

Mobilization:

Construction - 27.91% of total Costs = \$0.00

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$0.00

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$6,824.76

1. Road Use Fees - Amortization

R/W	Rd Use	Vol	Road Use
Number	Road Number	Fee x MBF	= Obligation

(1) Subtotal

2. BLM Maintenance - Timber Haul 1/ 2/ 3/ 4/ 5/

Road Number	A Surf	Maint	Vol	Total
and Segment	N Type	Mi x Fee x	MBF =	Maint

(2.1) Subtotal

- 1/ Enter list of roads in Sec. 41(RC-2).
 2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
 3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

3. BLM Maintenance - Rock Haul 1/ 2/ 3/

Road Number	A Surf	Maint	Vol	Total
and Segment	N Type	Mi x Fee x	C.Y. =	Maint

(3.1) Subtotal

- 1/ Enter list of roads in Section 41(RC-2).
 2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
 3/ Include lump sum logging damage repair (See Ex. D, Subsection 3108a Option F & 3401a).

4. Third Party Maintenance and Rockwear - Timber Haul 1/

MAINTENANCE (4.1)					ROCKWEAR (4.2) 2/ 3/		
Road Number	A	Maint	Vol	Total	Rkwear Vol	Total	
and Segment	N	Mi x Fee x	MBF =	Maint	Mi x Fee x	Rkwear	

(4.1) Subtotal (4.2) Subtotal

- 1/ Enter list of roads in Sec. 41(RC-2).
 2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
 3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

5. Third Party Maintenance and Rockwear - Rock Haul 1/

MAINTENANCE (5.1)					ROCKWEAR (5.2) 2/ 3/		
Road Number	A	Maint	Vol	Total	Rkwear Vol	Total	
and Segment	N	Mi x Fee x	C.Y. =	Maint	Mi x Fee x	Rkwear	

(5.1) Subtotal (5.2) Subtotal

- 1/ Enter list of roads in Sec. 41(RC-2).
 2/ Rockwear is included in fee as a maintenance cost for BLM maintained roads.
 3/ Include lump sum logging damage repair (see Ex. D, Subsection 3108a Option F & 3401a).

6. Other Maintenance Payments - USFS or Others Perform Maintenance

Agreement	Fee	Fee	Vol	Maint
Number	Road Number	MBF/Mi x Mi =	/MBF x Hauled =	Cost

(6) Subtotal

7. Purchaser Maintenance - Rock Wear

TIMBER HAUL (7.1)

ROCK HAUL (7.2) 2/ 3/

Road No 1/ and Segment	A N	Mi	RkWear x Fee	Vol x MBF	Total = RkWear	RkWear Mi	Vol x Fee	Total = RkWear
37-7-29	A	0.24	0.51	195	\$23.87			
37-7-31.00A	A	1.61	0.51	336	\$275.89			
37-7-33.01	A	0.52	0.51	587	\$155.67			
37-7-34.01A	A	0.13	0.51	587	\$38.92			
37-7-34.01B	A	1.73	0.51	587	\$517.91			
38-7-7	A	0.55	0.51	396	\$111.08			
Indian Cr. Co.N	N	1.06	0.00	2091	\$0.00	0.00	0.00	\$0.00

(7.1) Subtotal \$1123.34

(7.2) Subtotal \$0.00

- 1/ List all purchaser maintained roads and enter list in Section 41(RC-2a). Don't repeat any BLM maintained roads listed on appraisal. List may include new const. roads without fees.
 2/ All surfaced roads have a rockwear fee, except no rockwear fee is charged for rock haul on roads surfaced or resurfaced under this timber sale.
 3/ Include lump sum logging damage repair (See Ex. D, Subsection 3108a Option F & 3401a).

7. Purchaser Operational Maintenance

Cost allowances must be limited to work required under timber sale Exhibit D.
 If purchaser maint. such as dust control/damage repair is performed on BLM maint. roads, add appropriate mandatory Ex. D provisions, RC-2a and RC-2h stip. Note in prospectus.

7.3A Move In

Equipment 1/	No Units	Move x in	Cost/ 50 Mi	Dist x Factor	Sub- total
Motor Grader:	1	2	\$335.00	0.59	\$395.30
Back Hoe:	1	1	\$335.00	0.59	\$197.65
Loader:			\$335.00	0.59	\$0.00
Water Truck:	1	1	\$206.00	0.59	\$121.54
Dump Truck 2/:	2	1	\$214.00	0.59	\$252.52

(7.3A) Total \$967.01

- 1/ Equipment limited to that allowed in Exhibit D. Refer to Sch. 20 Table 2.
 2/ Dump truck is allowable for surface repair only.

7.3B Culvert Maintenance - Including Catchbasins and Downpipes 1/

Miles	x	Cost/Mi	=	Subtotal
292.45				\$0.00

(7.3B) Total \$0.00

- 1/ Does not include purchase or installation of culvert pipe. Refer to Sch. 20 Table 32.

7.3C Grading (Includes Ditches and Shoulders) 1/

	Miles	x	Cost/Mi	x Freq	= Subtotal
Blade Road:	6.83		459.60	1	\$3139.07
Blade Ditch:	0.00		153.20	0	\$0.00

(7.3C) Total \$3139.07

- 1/ Watch for double allowance on roadway preparation for dust palliative application.

7.3D Slide and Slough removal, Slump Repair (15 sta-yds. ea.) 1/

Type Equipment	No Slides /Slumps	Hours x Each	Equip Cost	= Subtotal
Grader:	0	0	119.90	\$0.00

Loader:	0	0	84.43	\$0.00
Backhoe:	0	0	62.55	\$0.00

(7.3D) Total \$0.00

1/ Maximum haul is 15 sta. yds. Use grader or front end loader only. Dump truck not allowed in specifications. Refer to Sch. 20 Table 28.

7.3E Dust Palliative (Water) 1/

Spreading Hours

Miles	/	MPH	=	Hours	x	No Days	x	Freq /Day	=	Truck Hours
6.83		5		1.4		5		1		7.0
Load & Haul-Roundtrip =				5.0		5		1		25.0
Fixed Hours (3000 Gal. tanker)										
										Total Hours = 32.0

Truck Cost: \$82.33/Hr. x 32.0 Hours = \$2634.56

(7.3E) Total \$2634.56

1/ Allow water for all BLM maint. non-oiled roads. Subsection 3403 requires 0.50 gal/syd.

7.3F Surface Repair (Aggregate)

Production Cost: 1/	0 C.Y. x \$0.00/C.Y.	=	\$0.00
Haul to Stockpile:	0 C.Y. x \$2.18/C.Y. x 20.00 Mi	=	\$0.00
Stockpile:	0 C.Y. x \$1.18/C.Y.	=	\$0.00
Load from Stockpile:	0 C.Y. x \$1.30/C.Y.	=	\$0.00
Haul from Stockpile:	0 C.Y. x \$2.18/C.Y. x 20.00 Mi	=	\$0.00
Process with Grader:	0 C.Y. x \$1.00/C.Y.	=	\$0.00

(7.3F) Total \$0.00

1/ Use unit cost from Road Construction Cost Guide.

7.3G Dust Palliative (Bituminous, Lignin, Magnesium Chloride)

(7.3G) Total

7.3H Other

Fallen Timber Cutting: 1/	0.0 Hours x \$0.00/Hour =	\$0.00
Brush Cutting/Tree Trimming: 2/	0.0 Hours x \$0.00/Hour =	\$0.00
Oil/Asphalt Materials: 3/	Lump Sum =	\$0.00
Signing for Dust Palliatives: 4/	Lump Sum =	\$0.00
Misc. L.S. =		\$0.00

(7.3H) Total \$0.00

1/ Exhibit D Subsection 3104.
 2/ Exhibit D Subsection 3107.
 3/ Exhibit D Subsection 3401a.
 4/ Exhibit D Subsection 3405b.

Tract No : TS 11-04
Sale Name: Deer North
Prep. By : JRoper
Sale Date: 6/30/2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1. Road Use - Amortization: (1) $\$0.00/1207 \text{ MBF} = \$0.00/\text{MBF}$ 1/
(RC-3 & RC-3a) (Tot Sale Vol)

2. Road Maintenance Obligation:

$\frac{\$0.00}{(2.1)}$	+	$\frac{\$0.00}{(3.1)}$	+	$\frac{\$0.00}{(4.1)}$	+	$\frac{\$0.00}{(5.1)}$	=	$\frac{\$0.00}{(RC-2c)}$
------------------------	---	------------------------	---	------------------------	---	------------------------	---	--------------------------

3. Rockwear Obligation:

$\frac{\$0.00}{(4.2)}$	+	$\frac{\$0.00}{(5.2)}$	+	$\frac{\$1123.34}{(7.1)}$	+	$\frac{\$0.00}{(7.2)}$	=	$\frac{\$1123.34}{(RC-2g)}$
------------------------	---	------------------------	---	---------------------------	---	------------------------	---	-----------------------------

4. Other Maintenance Payments:

Total (6)	=	$\frac{\$0.00}{(RC-3a)}$
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5. Purchaser Maintenance Allowances:

(7.3A) Move In	\$967.01
(7.3B) Culverts, Catch Basins, Downspouts	\$0.00
(7.3C) Grading, Ditching	\$3139.07
(7.3D) Slide Removal and Slump Repair	\$0.00
(7.3E) Dust Palliative (Water)	\$2634.56
(7.3F) Surface Repair (Aggregate)	\$0.00
(7.3G) Dust Palliative (Bituminous, Lignin, MgCl) . . .	\$0.00
(7.3H) Other	\$0.00

Total (7.3)	=	$\frac{\$6740.64}{(RC-2a \text{ \& Ex D})}$
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(2+3+4+5) Total = $\$7,863.98/1207 \text{ MBF} = \underline{\$6.52/\text{MBF}}$ 1/
(Total Sale Vol)

Costs are estimates only and do not include Profit and Risk.
1/ Enter on Timber Sale Summary Form OSO 5420-1.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of All Roads and Projects

T.S. Update 04/15/10

T.S. Contract Name: Deer North Sale Date: 8/11

Prepared by: J Roper Ph: 6631 Print Date: 6/14/2011 8:58:47 AM

Construction: 0.00 sta (Surfaced 0.00 sta Natural 0.00 sta)

Improve: 0.00 sta Renov: 365.90 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 0.0 acres	\$0.00
Clearing: 0.0 sta Grubbing: 0.0 acres	
Slash Treatment: 0.0 acres	
300 Excavation:	\$0.00
Haul: 0 sta-yds	
400 Drainage:	\$0.00
Culvert: 0 lf wt = 0 lbs	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$6,273.38
Blading 6.93 mi	
Surfacing:	\$7,452.40
1200 Quarry Name: Commercial 248 cy	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing: 8.6 acres	\$4,863.21
2200 Surface Treatment: 24.9 tons	\$5,865.20
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$0.00 Surf. \$1,055.41.....	\$1,055.41
Quarry Development:	\$0.00

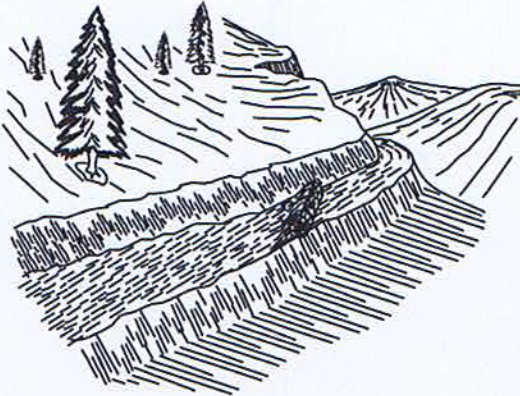
Total: 1,207 mbf @ \$21.13/mbf = \$25,509.60

Notes:

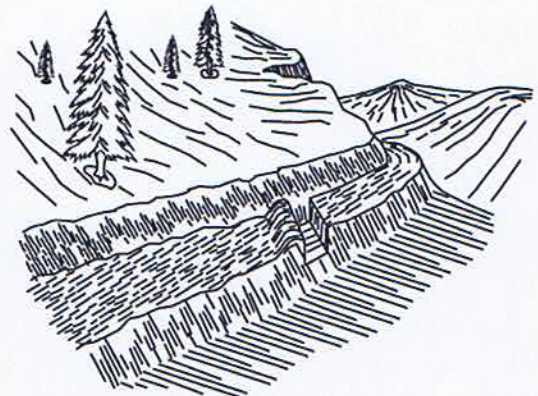
Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

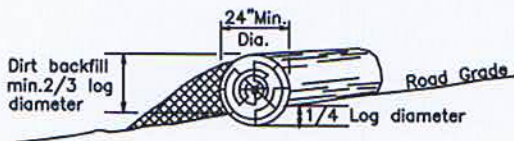
File T:\GrantsPass_Engineering\Timber Sales\T_Lime_Revised\revised_6_10\Deer North Road Costs.mdb



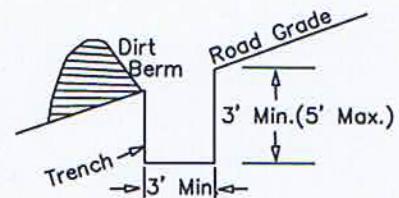
LOG BARRICADE



TRENCH BARRICADE (Optional)



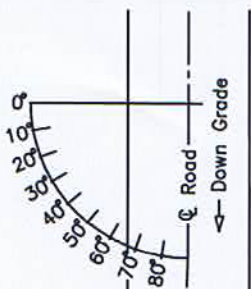
1. LOG BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL BARRICADES SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.
5. THE MINIMUM SMALL END DIAMETER OF THE LOG BARRICADE SHALL BE 24".

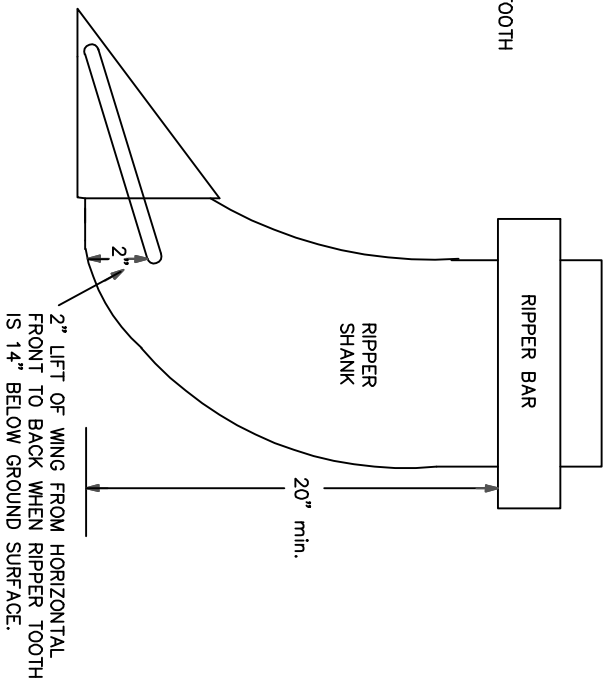
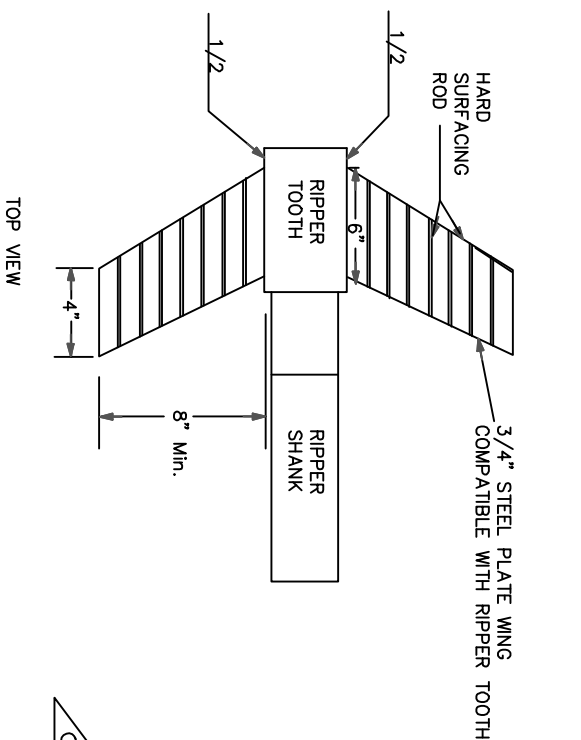


1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.

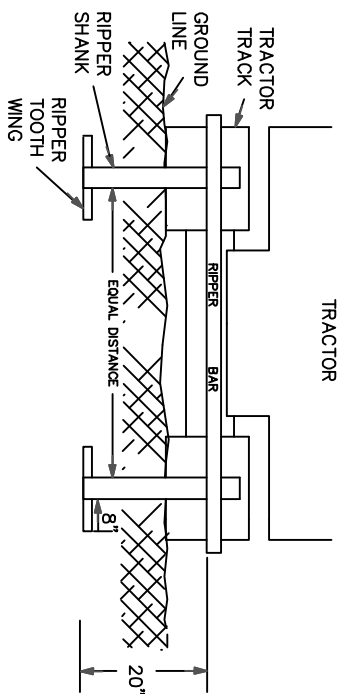
Note: Trench barricade may be installed if log minimum dimensions are not readily available.

SKEW DIAGRAM





TYPICAL RIPPER POSITION



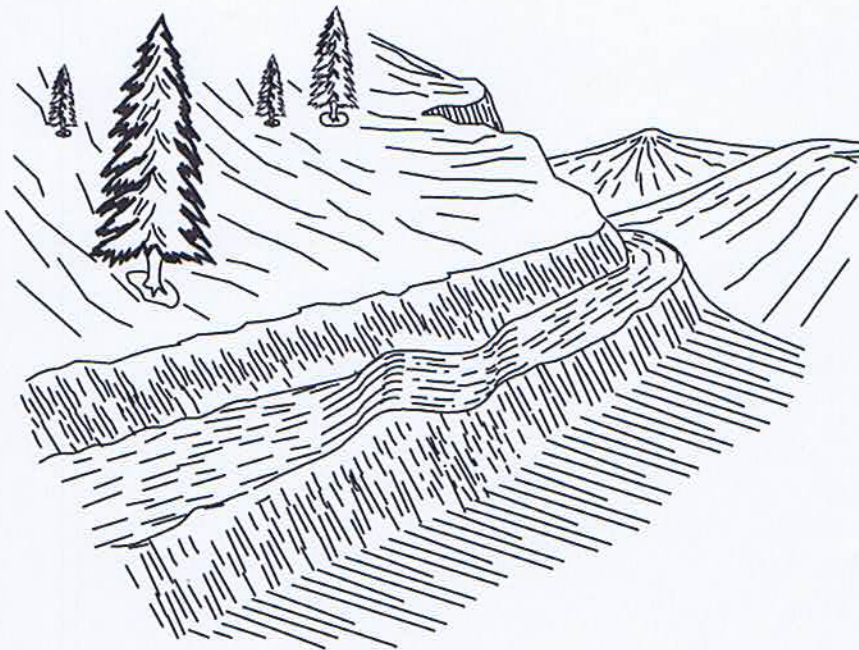
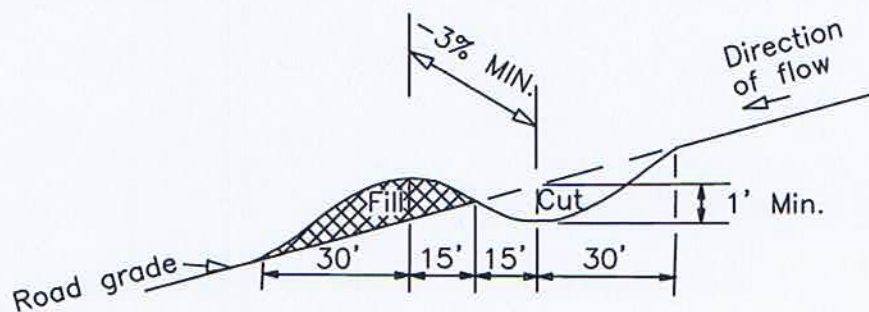
SIDE VIEW

- NOTES: TYPICAL RIPPER TOOTH CONSTRUCTION
1. USE HARD SURFACING ROD FOR ALL EDGE AND SURFACE REINFORCEMENT.
 2. WELD THAT ATTACHES WINGS TO RIPPER TEETH MUST BE COMPATIBLE WITH METAL IN TEETH AND WINGS.
 3. RIPPER SHANKS AND RIPPER TEETH MAY BE NEW OR USED.
 4. WINGS SHALL PROVIDE TWO (2) INCHES OF LIFT FROM THE HORIZONTAL WHEN TEETH ARE EXTENDED FOURTEEN (14) INCHES BELOW THE GROUND SURFACE.

WING RIPPER DETAIL

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ASHLAND RESOURCE AREA MEDFORD DISTRICT

DESIGNED	
REVIEWED	
APPROVED	
DRAWN: JWR	
DATE: October 2009	SHEET 1 OF 1
DRAWING NO.	

WATER BAR

1. WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER BARS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEPOSIT AND BID FOR ☒ **TIMBER***
☐ **VEGETATIVE RESOURCE**
(Other Than Timber)

LUMP SUM SALE

Name of Bidder
Tract Number OR110-TS11-04
Sale Name Deer North
Sale Notice (dated) 6/29/2011
BLM District Medford

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
---	---

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 deposited is **\$12,800.00** ----- and is enclosed in the form of ☐ cash ☐ money order ☐ bank draft
☐ cashier's check ☐ certified check ☐ 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 be returned.

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	1,160	X	=	X	=
Sugar Pine	MBF	27	X	=	X	=
Ponderosa Pine	MBF	19	X	=	X	=
Incense Cedar	MBF	1	X	=	X	=
Total		1,207	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 reverse)

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.		Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) “Bid for Timber” (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description
Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.		

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

ROUTINE USE: 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.

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 Resource*, 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 Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

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

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

10. PERFORMANCE BOND -

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

*Applies to Timber Only

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 dimension 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.

6.(b) **TIMBER SCALE SALES** – (Continued)

Bidders will be restricted to bidding on a unit (MBF) rate of the Douglas-fir volume.

All other species will be sold at appraised price per unit (MBF).