

# P R O S P E C T U S

ASHLAND RESOURCE AREA  
JACKSON MASTER UNIT

Medford Sale # OR110-TS11-20  
September 15, 2011 (CB)

#3 Cottonwood, Jackson County, O&C

BID DEPOSIT REQUIRED: **\$15,700.00**

All timber designated for cutting in N ½ SE ¼, SE ¼ SW ¼, SW ¼ SE ¼, Sec. 32, S ½ NE ¼, SE ¼ NW ¼, NE ¼ SW ¼, N ½ SE ¼, Sec. 33, T. 38 S., R. 3 E.; 2 Unnamed Lots, Sec. 4, 2 Unnamed Lots, S ½ NE ¼, Sec. 5, W ½ NE ¼, E ½ NW ¼, SE ¼, Sec. 9, Sec. 17, NE ¼ NE ¼, Sec. 19, W ½ NW ¼, N ½ SW ¼, SE ¼ SW ¼, Sec. 20, S ½ NE ¼, NE ¼ NW ¼, S ½ NW ¼, S ½, Sec. 21, SW ¼ NW ¼, Sec. 29, E ½ NE ¼, NE ¼ SE ¼, Sec. 30, N ½ NE ¼, NE ¼ NW ¼, Sec. 32, T. 39 S., R. 3 E. 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
13,826	1,748	3,953	White fir	2,300	\$31.50	\$72,450.00
5,064	703	1,598	Douglas-fir	895	\$92.10	\$82,429.50
256	27	65	Ponderosa pine	36	**\$26.40	\$950.40
35	3	8	Incense-cedar	3	\$198.10	\$594.30
19,181	2,481	5,624	<b>Totals</b>	<b>3,234</b>		<b>\$156,424.20</b>

\*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.

\*\*Minimum stumpage values were used to compute the appraised price (10% of pond value).

**TIMBER AUCTION LOCATION** – The timber auction will be held at the Medford Interagency Office, located at 3040 Biddle Road, Medford, Oregon, at 9:00 a.m. on Thursday, September 15, 2011.

**Bidders will be restricted to bidding on a unit (MBF) rate of the White 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, white fir, and incense cedar have been cruised using the 3-P sampling method to select sample trees. The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. A map showing the location and description of these sample trees is available at the Medford Interagency Office.

The volume of Ponderosa pine in this sale has been derived from Sample Tree Random (STR) cruise using form class tables for estimating board foot volume of trees in 16-foot logs.

With respect to merchantable trees of all conifer species: the average tree is 15.1 inches DBHOB; the average gross merchantable log contains 54.8 bd. ft.; the total gross volume is approximately 3919 M bd. ft; and 83% recovery is expected. (Average DF is 14.2 inches DBHOB; average gross merchantable log DF contains 59 bd. ft.)

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

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 – Thirty (30) units containing 721 acres must be partial cut. A right-of-way containing 4 acres must be clear-cut.

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

ACCESS - Access to the sale area is available via a public road through the contract area and existing BLM roads.

ROAD MAINTENANCE - The Purchaser will be required to maintain all of the roads which he constructs plus 5.80 miles of existing BLM road. BLM will maintain 17.41 miles of roads listed in Section 41(C)(3). The Purchaser will be required to pay a maintenance fee of \$ 1.82 per MBF or a total of \$5871.63 for the use of these roads.

ROAD CONSTRUCTION - The contract will require the Purchaser to construct 60+90 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, the Purchaser shall not operate or cause to have operated on the contract area any tractor-type logging equipment when soil moisture content is high as determined by the Authorized Officer. The Purchaser shall construct motor vehicle barricades on all primary skid roads which intersect any haul roads; water bar all skid trails; and mulch and seed fill slopes on the newly constructed landings fill slope.

EQUIPMENT REQUIREMENTS - LOGGING: A yarding tractor not greater than 9 feet wide as measured from the outer edges of standard width shoes and equipped with an integral arch and a winch for lining logs seventy-five (75) feet. A skyline yarder capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul.

SLASH DISPOSAL - Slash disposal will consist of Hand Piling.

CONTRACT TERMINATION - A 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 comply with the Endangered Species Act, or comply with a court order, or protect occupied marbled murrelet sites in accordance with the Standards and Guidelines of the Medford District Record of Decision (ROD) and Resource Management Plan (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. Winter hauling may be allowed. Refer to stipulations L-18 and E-1 in the contract for more information.
3. Harvester-forwarder operations may be allowed. Refer to stipulation L-7MC in the contract for more information.
4. Tractor yarding or harvester-forwarder operations may be allowed in winter conditions. Refer to stipulation L-7MC in the contract for more information.
5. A historical split rail fence in T38S R3E Sec. 20 must be directionally felled away from and protected.
6. In units 32-5A and 32-5B there is a special yarding area where equipment shall be excluded and bull lining methods shall be used for wood extraction.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Ashland, proceed 16.8 miles East on highway OR-66/Green Springs Highway. Turn left onto East Hyatt Lake Road and proceed approximately 3 miles to the project area.

ENVIRONMENTAL ASSESSMENT - An environmental assessment (DOI-BLM-OR-M060-2011-0003-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.

# Seasonal Restriction Matrix

Sheet 1 of 4

Cottonwood Timber Sale

OR110-TS11-20

**\*Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Unit 33-1	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 33-2	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 33-3	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 32-2	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 32-3	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup> road 38-3E-32.3																								
	Hauling <sup>1</sup> road 38-3E-32																								
Unit 4-2A	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 4-2B	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								

<sup>1</sup> Some variation of these dates possible depending on conditions



# Seasonal Restriction Matrix

Sheet 2 of 4

Cottonwood Timber Sale

OR110-TS11-20

**\*Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Unit 5-1	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 5-8	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 9-1	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 9-2	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 17-2	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 17-3	Falling and bucking <sup>1</sup>																								
	Cable yarding <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 17-4	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 17-5	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								

<sup>1</sup> Some variation of these dates possible depending on conditions

# Seasonal Restriction Matrix

Sheet 3 of 4

Cottonwood Timber Sale

OR110-TS11-20

**\*Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
<b>Unit 17-6</b>	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup> road 39-3E-17.2																								
	Hauling <sup>1</sup> road 39-3E-17																								
<b>Unit 20-1</b>	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
<b>Unit 20-2</b>	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
<b>Unit 21-1</b>	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
<b>Unit 21-2A</b>	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
<b>Unit 21-2B</b>	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
<b>Unit 21-3</b>	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								

<sup>1</sup> Some variation of these dates possible depending on conditions

# Seasonal Restriction Matrix

Sheet 4 of 4

Cottonwood Timber Sale

OR110-TS11-20

**\*Restricted Times are Shaded**

Sale Area	Activity	Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Unit 21-4	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 21-4C	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 30-1	Falling and bucking <sup>1</sup>																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 30-2	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 30-3	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 32-4B	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 32-5A	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								
Unit 32-5B	Falling and bucking																								
	Ground Based Operations <sup>1</sup>																								
	Hauling <sup>1</sup>																								

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Cottonwood Timber Sale  
Special Provisions

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 Government.

- (A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A.
- (B) IR-2 All timber except approximately nineteen thousand one hundred eighty-one (19,181) trees marked for cutting heretofore by the Government with blue paint above and below stump height in all units as shown on Exhibit A.
- (C) IR-6 All snags, except when determined to be a hazard during operations by the Authorized Officer, in all units as shown on Exhibit A.
- (D) IR-10M Genetically superior trees marked with orange paint and seed trees tags in the contract area. 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 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.

Cottonwood Timber Sale  
Special Provisions

Section 41

(A) Log Exports

- (1) LE-1 All timber sold to the Purchaser under the terms of this contract 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 (8¾) 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 (8¾) 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.

Cottonwood Timber Sale  
Special Provisions

- (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 Form 5460-16 (Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer Form 5460-15 (Log Scale and Disposition of Timber Removed Report) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.

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

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

(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 they plan to begin operations. The Purchaser shall

Cottonwood Timber Sale  
Special Provisions

also notify the Authorized Officer in writing if they intend to cease operations for any period of seven (7) or more days.

- (2) L-5 All trees seven (7) inches or larger D.B.H.O.B. designated for cutting shall be felled concurrently with all other trees designated for cutting in all harvest units.
- (3) 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.

Cottonwood Timber Sale  
Special Provisions

<p>In Units 17-2, 17-4, 17-5, 17-6, 20-1, 20-2, 21-1, 21-2A, 21-2B, 21-3, 21-4, 21-4C, 30-1, 30-2, 30-3, 32-2, 32-3, 32-4B, 32-5A, 32-5B, 33-1, 33-2, 33-3, 4-2A, 4-2B, 5-1, 5-8, 9-1, 9-2.</p>	<p>All ground-based yarding systems shall be approved by the Authorized Officer.</p> <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>Yarding tractors will operate only on tractor skid roads approved by the Authorized Officer. Skid road locations will be approved prior to felling of timber to be yarded over that skid trail and trees shall be felled to the lead. The location of the tractor skid roads must be clearly designated on the ground and spaced at approximately one hundred fifty (150) foot intervals where feasible. Existing skid roads will be utilized where possible. Ground based yarding systems shall be limited to slopes thirty-five (35) percent or less except as approved by the Authorized Officer. Disturbance to natural openings/meadows within tractor units shall be kept to a minimum. No yarding will be allowed up or down draw bottoms. Skid trails shall avoid areas with high water tables.</p> <p>If a mechanized harvester is used, it must be capable of reaching at least twenty (20) feet laterally and would not be restricted to the designated skid trails. To minimize soil disturbance the lateral capability of the harvester must be utilized as much as is practical. . Operations using a harvester-forwarder shall be limited to operating on soil moisture conditions of less than 15% by weight at three inches as determined by the Authorized Officer.</p> <p>Yarding tractors will be equipped with integral arches and winch systems capable of lining logs at least one hundred fifty (150) feet.</p> <p>Landing size shall not exceed one-quarter (1/4) acre. Front end loaders shall not be used in units or on landings.</p> <p>No tractor yarding is permitted when soil moisture content is greater than 30% as determined by the Authorized Officer. Yarding will be limited in accordance with Section 25 if detrimental soil damage about to occur, as determined by the Authorized Officer.</p>
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Cottonwood Timber Sale  
Special Provisions

	<p>Tractor yarding or harvester-forwarder operations would be allowed on a minimum of twenty-four (24) inches of snow. No logging would be allowed once the snow depth deteriorates below eighteen (18) inches. Skid trail spacing and soil moisture requirements would be waived if tractor yarding on snow occurs. The above conditions must be approved by the Authorized Officer.</p> <p>Operations using a harvester-forwarder shall be limited to operating on soil moisture conditions of less than 15% by weight at three inches as determined by the Authorized Officer.</p> <p>All trees in all units required for harvest shall be yarded.</p> <p>Front end loaders shall not be used in units or on landings.</p>
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Cottonwood Timber Sale  
Special Provisions

<p>In Units 17-3.</p>	<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 perpendicular to the contours and landings shall be spaced at an average of one hundred fifty (150) foot intervals where feasible. The width of the skyline corridors shall be as narrow (maximum 15 feet) as operationally feasible. The number of corridors for each cable setting is limited to two (2). Exceptions must have prior approval from the Authorized Officer.</p> <p>No yarding will be allowed up or down draw bottoms and no yarding corridors will be allowed in riparian reserves.</p> <p>Trees shall be felled to the lead in respect to the yarding corridor.</p> <p>Front end loaders shall not be used in units or on landings.</p> <p>All yarding corridors, guyline trees, tailholds and lift trees shall be designated on the ground by the Purchaser and approved by the Authorized Officer.</p> <p>All trees in all units required for harvest shall be yarded.</p>
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Cottonwood Timber Sale  
Special Provisions

- (4) L-9 No ground disturbing activities are permitted in or through the reserve area as shown on Exhibit A.
- (5) L-11 No new landings shall be located within the riparian reserve of any stream as shown on Exhibit A as determined by the Authorized Officer.
- (6) L-18 No ground-based operations shall be conducted on the contract area between October 15 of one calendar year and June 15 of the following calendar year, both days inclusive. This restriction may be waived during dry soil conditions as approved by the Authorized Officer. Operations using a harvester-forwarder shall be limited to operating on soil moisture conditions of less than 15% by weight at three inches as determined by the Authorized Officer.
- (7) L-18 No road construction, landing construction, road maintenance or road decommissioning activities shall be permitted on the contract area between October 15 of one calendar year and June 15 of the following calendar year, both days inclusive. This restriction could be waived during dry conditions except during rain events of 0.20 inches or more. Restart will not occur until 48 hours after the rain event or by approval of the Authorized Officer.
- (8) L-18 No hauling shall be conducted on 38-3E-32.00A, 38-3E-33.00, 38-3E-33.03, 38-3E-33.04, 39-3E-03.00A-C, 39-3E-03.00D, 39-3E-03.00E, 39-3E-09.01A, 39-3E-17.00A1-A2, 39-3E-21.00A, 39-3E-29.00, 39-3E-30.00, 39-3E-32.00A-D, and Little Hyatt Prairie Road between October 15<sup>th</sup> of one calendar year and May 15<sup>th</sup> of the following calendar year. A waiver may be granted by the Contracting Officer if dry conditions occur. Winter hauling will be permitted as approved by the Authorized Officer on any road if at least 4 inches of packed snow is present on hauling roads. Snow plowing will maintain at least 4 inches of packed snow on hauling roads.
- (9) L-18 No hauling shall be conducted on 38-3E-32.00B, 38-3E-32.03, 38-3E-32.05, 38-3E-33.02, 39-3E-05.03A, 39-3E-05.03B, 39-3E-08.01, 39-3E-08.02, 39-3E-09.02, 39-3E-09.03, 39-3E-09.05, 39-3E-17.02, 39-3E-17.03, 39-3E-21.02, 39-3E-27.08, 39-3E-28.02, 39-3E-17.04, 39-3E-9.05, 39-3E-9.06 and operators spurs between October 15<sup>th</sup> of one calendar year and June 15<sup>th</sup> of the following calendar year. A waiver will be granted by the Contracting Officer if dry conditions occur. Winter hauling would be permitted as approved by the Authorized Officer on any road if at least 4 inches of packed snow is present on hauling roads. Snow plowing will maintain at least 4 inches of packed snow on hauling roads.

Cottonwood Timber Sale  
Special Provisions

- (10) L-18a No cutting or yarding within units 21-2A and 21-2B shall be conducted between March 1 through August 31 of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from osprey protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that osprey nesting and/or fledging activities are not occurring during the year or time of harvest.
- (11) L-18a No cutting or yarding within units 17-2, 17-3, 17-5, 17-6, and 30-1 shall be conducted between March 1 through June 30th of the same calendar year, both days inclusive. This restriction will not apply if it can be shown from Northern Spotted owl protocol surveys conducted by the Bureau of Land Management in accordance with accepted standards that Northern Spotted owl nesting and/or fledging activities are not occurring during the year or time of harvest.
- (12) L-20 During logging operations, the Purchaser shall keep Little Hyatt Prairie Road, where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as is practicable. The road shall not be blocked by such operations for more than thirty (30) minutes unless a resident living beyond the blockage is delayed from reaching and/or leaving their home, in which case, they should be let through as soon as possible.
- (13) L-21 The Purchaser shall provide sufficient warning signs to control traffic on all roads where it passes through the contract area whenever harvest operations are adjacent to roads, Pacific Crest National Scenic Trail (PCNST), and the Table Mountain Winter Play Area whenever harvest operations could create a hazard to the public.
- (14) L-24 Prior to the commencement of operations, the Purchaser shall obtain from the Contracting Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. Any requested changes to the terms and conditions of this contract (such as a change in logging systems) must be authorized by the Contracting Officer through bilateral modification of the contract. A prework conference between the Purchasers authorized representative and the Authorized Officer must be held at a location designated by the Contracting Officer before the logging plan will be approved..
- (15) L-27 In all units shown on Exhibit A, all trees designated for cutting shall be felled away from unit boundaries, property lines, fences, streams, draw bottoms, irrigation ditches, seed trees, PCNST, and reserve area. The Purchaser shall

Cottonwood Timber Sale  
Special Provisions

notify the Authorized Officer three (3) days before beginning felling operations in the above area(s).

- (16) L-29 In unit 17-3 as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout from the head spar to the new tailhold to protect advance reproduction and/or reserve trees and snags present on these areas.
- (17) L-33 In accordance with the requirements of Section 8 of contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the contract area, which is obstructing needed cable yarding roads, hazardous to workers, needed for guyline, tailhold, and/or tieback trees, obstructing ground based equipment skid roads, is severely damaged from the normal conduct of felling or yarding operations, or to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
- a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Section 40 of the contract are not included in the authorization.
  - b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump immediately after falling with a large "X". The "X" shall be cut with a chain saw. The stump shall be marked by yellow flagging so that that stump can be visually located from a distance of not less than 100 feet.
  - c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Section 3(b) or 3(d) of the contract as required by Section 8 of the contract.
  - d) No timber may be cut or removed under the terms of this provision if all contract payments required by Section 3(b) or 3(d) of the contract have been made.

Cottonwood Timber Sale  
Special Provisions

- e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
- (1) failed to properly mark any stump with the "X" cut.
  - (2) failed to identify the location of any stump.
  - (3) cut any tree that was reserved for tree improvement and/or wildlife habitat.
  - (4) cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
  - (5) cut any reserve tree in or adjacent to tractor skid roads that was not necessary to facilitate ground based yarding.
  - (6) failed to properly segregate any pulled over tree that was yarded to the landing.
  - (7) cut any reserve tree that was not severely (as defined during the prework conference and documented in the approved logging plan) damaged from felling and yarding operations.
  - (8) cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
  - (9) cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
  - (10) cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
  - (11) failed to maintain accurate and current (no more than 24 hours old) documentation of cut and removed timber.

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

Cottonwood Timber Sale  
Special Provisions

All cable-yarding and/or ground based equipment skid roads upon which timber may be cut and removed in accordance with this special provision must be needed for the removal of timber sold under this contract and shall be limited to the narrowest width necessary for the yarding of logs with minimum damage to reserved trees.

The purchaser shall be liable for damages in accordance with Section 13 of the contract for any reserved timber cut or removed in violation of the terms of this special provision.

(C) Road Construction - Maintenance - Use

- (1) RC-1a The Purchaser shall construct, 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, except right-of-way timber, the Purchaser shall complete all construction, improvement, or renovation of structures and roads as specified in Exhibit C.
- (3) RC-2 The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser pay the required maintenance obligations described in Section 41(C)(6). Any road listed below and requiring improvement or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
38-3E-19.00	3.00	BLM	BST
38-3E-32.00	2.03	BLM	ASC
38-3E-33.00	0.65	BLM	ASC
38-3E-33.03	0.43	BLM	ASC
38-3E-33.04	0.18	BLM	ASC
39-3E-03.00	1.92	BLM	ASC
39-3E-17.00	1.00	BLM	ASC

Cottonwood Timber Sale  
Special Provisions

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
39-3E-21.00	1.28	BLM	ASC
39-3E-29.00	0.18	BLM	PRR
39-3E-32.00	1.81	BLM	GRR
39-3E-05.03	0.32	BLM	ASC
40-3E-03.00	2.98	BLM	BST
39-3E-27.5	1.63	BLM	ASC
<b>Total</b>	<b>17.41</b>		

- (4) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 which are under the jurisdiction of the Bureau of Land Management for the removal of Government timber sold under the terms of this contract and/or the hauling of rock as required in Exhibit C, provided that the Purchaser comply with the conditions set forth in Section 41(C)(9). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.



Cottonwood Timber Sale  
Special Provisions

Road No. and Segment	Length Miles Used	Road Control	Road Surface Type
38-3E-32.03	0.28	BLM	NAT
38-3E-32.05	0.27	BLM	NAT
38-3E-33.02	0.54	BLM	NAT
39-3E-09.02	0.45	BLM	NAT
39-3E-09.03	0.50	BLM	NAT
39-3E-09.05	0.89	BLM	NAT
39-3E-09.06	0.16	BLM	NAT
39-3E-17.02	0.20	BLM	NAT
39-3E-17.03	0.47	BLM	NAT
39-3E-17.04	1.15	BLM	NAT
39-3E-28.00	0.32	BLM	NAT
39-3E-28.02	0.16	BLM	NAT
39-3E-21.03	0.30	BLM	NAT
39-3E-21.02	1.26	BLM	NAT
<b>Total</b>	<b>6.95</b>		

- (5) RC-2b With the prior written approval of the Authorized Officer, the Purchaser may arrange for cooperative maintenance with other users on road included in Section 41(C)(4) of this contract; provided, that such cooperative arrangement shall not relieve the Purchaser of his liability for the maintenance and repair of such roads resulting from wear or damage, in accordance with this contract. The Purchaser shall furnish the Authorized Officer a copy of any cooperative maintenance agreements entered into with other users on these roads.
- (6) RC-2c The Purchaser shall pay the Government a road maintenance obligation in the amount of Five Thousand Eight Hundred Seventy One and 63/100 dollars (\$5871.63) for the transportation of timber included in the contract price and for the transportation of any mineral material required under the terms of the contract over road or roads listed in Section 41(C)(3).

The above road maintenance amount is for use of 17.41 miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the contract area, payments shall be made in installments of not less than Five hundred dollars (\$500.00); payable in the same manner as and together with payments required in Sec. 3 of this contract. The total maintenance amount shall be paid prior to the removal of timber from the contract area.

Cottonwood Timber Sale  
Special Provisions

- (7) RC-2d The Purchaser shall be authorized to use other roads not included in Section 41(C)(3) and/or Section 41(C)(4) provided, that in the use of such road(s), the Purchaser shall pay the Government current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) used.

For administrative purposes the total maintenance and rockwear obligation due shall be based upon the estimated volume set forth in Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer.

In the event logs are hauled over more than one route, the estimated volume set forth in Exhibit B shall be proportioned on the basis of actual volume removed. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of the timber purchased under this contract, together with an estimate of the volume to be hauled over such roads.

Section 41(C)(6) of this contract shall be amended to include adjustments of fee obligations.

- (8) RC-2f The Authorized Officer may at any time by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area to be transported over road or roads listed in Section 41(C)(4). The Purchaser shall pay the total maintenance amount for said road(s) within thirty (30) days following receipt of written notice; provided, however, that if the total amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make payment in installments in the same manner as and together with payments required in Section 3 of this contract.
- (9) 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.
- (10) 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 investment of any such road.

Cottonwood Timber Sale  
Special Provisions

- (11) 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 Sec. 25 of this contract, the Purchaser shall :
- (a) Abate dust created from hauling in accordance with Exhibit D.
  - (b) Construct earth and log motor vehicle barricades on all operator spurs and major skid roads which intersect any haul road.
  - (c) Construct, use, and decommission operator spurs during the dry season of the year. Operator spurs shall be decommissioned the same year they are constructed.
  - (d) Water bar all skid trails and operator spurs utilized in the contract area in accordance with specifications shown on Exhibit W.

Cottonwood Timber Sale  
Special Provisions

- (e) Temporary routes, also referred to as short operator spurs (50 to 500 feet) and roads identified for decommissioning would be closed by placing logs, slash, boulders, earthen berms, and other material at the entrance and throughout its length sufficient to preclude vehicle use, and waterbars would be constructed.
  - (f) Do not snowplow road 38-3E-19 to provide for Nordic trail use.
  - (g) Cut stumps of trees visible from the PCNST as close to the ground as possible given site specific conditions and safety concerns in order to minimize the visual impact to the recreation experience. Do not cross PCNST outside of power line corridor to access Unit 21-2B from Unit 21-3 or 21-2A, or from Unit 21-3 to 21-2B or 21-2A. Use East Hyatt Lake road, Howard Prairie road, power line corridor, or other existing routes for equipment access to units. Rehabilitate trail tread at designated skid trail crossings on PCNST by matching trail tread width and appearance as closely as possible to that of trail tread immediately on either side of the designated crossing. Designate skid trail crossings perpendicular to the trail to minimize disturbance to the trail tread in Units 32-5A and 32-5B.
- (2) E-1 In addition to the requirement set forth in Section 25 of this contract, the Purchaser shall implement the following noxious weed control measures shall be implemented by the purchaser:
- (a) In order to prevent the potential spread of noxious weeds into the Medford District BLM, the operator would be required to clean all logging construction, rock crushing, and transportation equipment prior to entry on BLM lands.
  - (b) Cleaning shall be defined as removal of dirt, grease, plant parts, and material that may carry noxious weed seeds into BLM lands. Cleaning prior to entry onto BLM lands may be accomplished by using a pressure hose.
  - (c) Only logging and construction equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of logging and construction equipment as described above shall be treated the same as the initial move-in.
  - (d) Prior to initial move-in of any logging or construction equipment, and all subsequent move-ins, the operator shall make the equipment available for BLM inspection at an agreed upon location off Federal lands.
  - (e) Logging and construction equipment would be visually inspected by the Authorized officer to verify that the equipment has been reasonably cleaned.

Cottonwood Timber Sale  
Special Provisions

- (4) E-1 Scarify and contour landings to provide for adequate drainage. Bare soil due to landing construction/renovation would be protected and stabilized prior to fall rains to reduce soil erosion and sediment potential. Straw mulch and seed exposed earth on temporary logging spurs and tractor landings with certified weed free straw and seed mixture as directed and approved by the Authorized Officer. Selected landings may be left "as is" where natural rock occurs or where vegetation/topography prevents movement of sediment, as determined by the Authorized Officer. The seed mix and straw shall be provided by the purchaser from an approved commercial source, or may be provided by the BLM if the purchaser is unable to locate and buy the certified seed and straw. The purchaser shall reimburse the government for the cost of seed and straw if provided by the government.

The Purchaser shall furnish and apply to acres designated for treatment as directed by the Authorized Officer, a mixture of grass seed and mulch material at the following rate of application:

Grass seed	20 lbs./acre
Straw mulch	1000 lbs./acre (approx. 2 inches in depth)

The Purchaser shall furnish the following species of grass seed meeting corresponding germination, purity, and weed content requirements:

<u>Species</u>	<u>Germination</u>	<u>Purity</u>	<u>Weed Content</u>
	<u>Min. %</u>	<u>Min. %</u>	<u>Max. %</u>
California Brome	85	95	0.2
Blue Wild Rye	85	95	0.2

The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from the general region where the project occurs. Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner.

The Purchaser shall mix grass seed in the following proportions:

<u>Species</u>	<u>Percent of</u>	<u>Lbs. per Acre</u>
	<u>Total by Wt.</u>	
California Brome	50%	10

Cottonwood Timber Sale  
Special Provisions

Blue Wild Rye	50%	10
TOTALS	100%	20 lbs./ac.

The Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (i.e. Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract. The seed and straw mulch shall be applied between August 1 and October 15. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.

- (3) E-3 If, in connection with operations under this contract, the Purchaser, their contractors, subcontractors, or the employees of any of them, discovers, encounters, 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
- (4) 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;

Cottonwood Timber Sale  
Special Provisions

- (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 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

## Cottonwood Timber Sale Special Provisions

to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b of the contract within 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.

In the event that a Court-ordered injunction results in a suspension period in which the Purchaser loses operating time of 30 calendar days or more between May 15 and October 15 during the contract period, the Contracting Officer shall unilaterally modify the contract based on reappraisal of the remaining volume as of the date that the suspension is lifted. The 30 days can be the sum of days accruing during more than one operating season. Reappraisal may result in a decrease to the unit price bid per species. Reappraisal will be based on the loss of net volume due to the deterioration of logs during the period of delay and any associated changes in the amortization of logging costs per unit of volume, as determined by the Authorized Officer. Amortization of road construction cost over a reduced net volume will be considered as well as any additional move-in or logging costs caused by the delay, as determined by the Authorized Officer. Reappraisal will adjust Exhibit B volume and values, and will not consider changes in the market price of timber.

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



## Cottonwood Timber Sale Special Provisions

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.

- (5) E-5 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Authorized Officer that a spotted owl has been located in the sale area. Discontinued operations may be resumed upon receipt of written instructions and authorizations by the Authorized Officer.

Cottonwood Timber Sale  
Special Provisions

- (6) 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 on the contract area as limited in Section 41(L-18a) of the contract 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 Two thousand four hundred twenty-five 50/100 dollars (\$2,425.50). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of Two thousand four hundred twenty-five 50/100 dollars (\$2,425.50) 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

Cottonwood Timber Sale  
Special Provisions

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.

- (2) M-5 The Purchaser shall, without expense to the government, be responsible for obtaining any necessary licenses and permits and for complying with any and all Federal, State, County and municipal laws, codes, regulations, and administrative rules applicable to the performance of this contract. The Purchaser shall also be responsible for all damages to any persons or property that arise out of any operations under this contract and result from any breach of contract or wrongful or negligent act or omission of the Purchaser, its contractors, subcontractors, or employees of any of them.

(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-

Cottonwood Timber Sale  
Special Provisions

fourths ( $\frac{3}{4}$ ) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

- (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 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 Medford, Oregon. Such communication shall be available during periods of operation including the time watch-service is required.
- (5) 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.
- (6) 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

Cottonwood Timber Sale  
Special Provisions

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.

(G) Slash Disposal and Site Preparation

- (1) SD-5 Perform logging residue reduction and site preparation work on approximately ten (10) 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.

	Cost/Acre
Handpile and Cover	\$360.00

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

Appraised Treatment	Acres	Cost/Acre	Total Cost per Treatment
Handpile and Cover	10	\$360.00	\$3,600.00
<b>Total Appraised Cost</b>	<b>10</b>		<b>\$3,600.00</b>

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 41(G)(1)(a) differs from \$3,600.00 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 41(G)(1)(a). Actual acres treated may vary considerably from the estimated acres shown in Section 41(G)(1)(b). The area to be treated may vary from zero acres to all harvest units shown on the Exhibit A.

Cottonwood Timber Sale  
Special Provisions

- (d) There is significant uncertainty as to the appropriate slash disposal. The above slash disposal requirements have been appraised. This provision establishes a "menu" of available treatments (based on the above pre-sale determination) for the selection by the Authorized Officer upon post-harvest determination of need.
- (2) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release 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-1c HAND PILING Hand pile all slash 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 six (6) inches in diameter on the large end and exceeds two (2) feet in length.

A six (6) foot by six (6) foot sheet of six (6) mil. black plastic or equivalent material 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

Cottonwood Timber Sale  
Special Provisions

channel; on down logs or stumps, within twenty-five (25) feet of any other pile, unit boundary or the trunk of the nearest living tree. No portion of the pile will be under the crown of any living 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) Piling shall be completed in each unit or portion thereof, within four (4) weeks after completion of yarding that unit, or portion thereof.

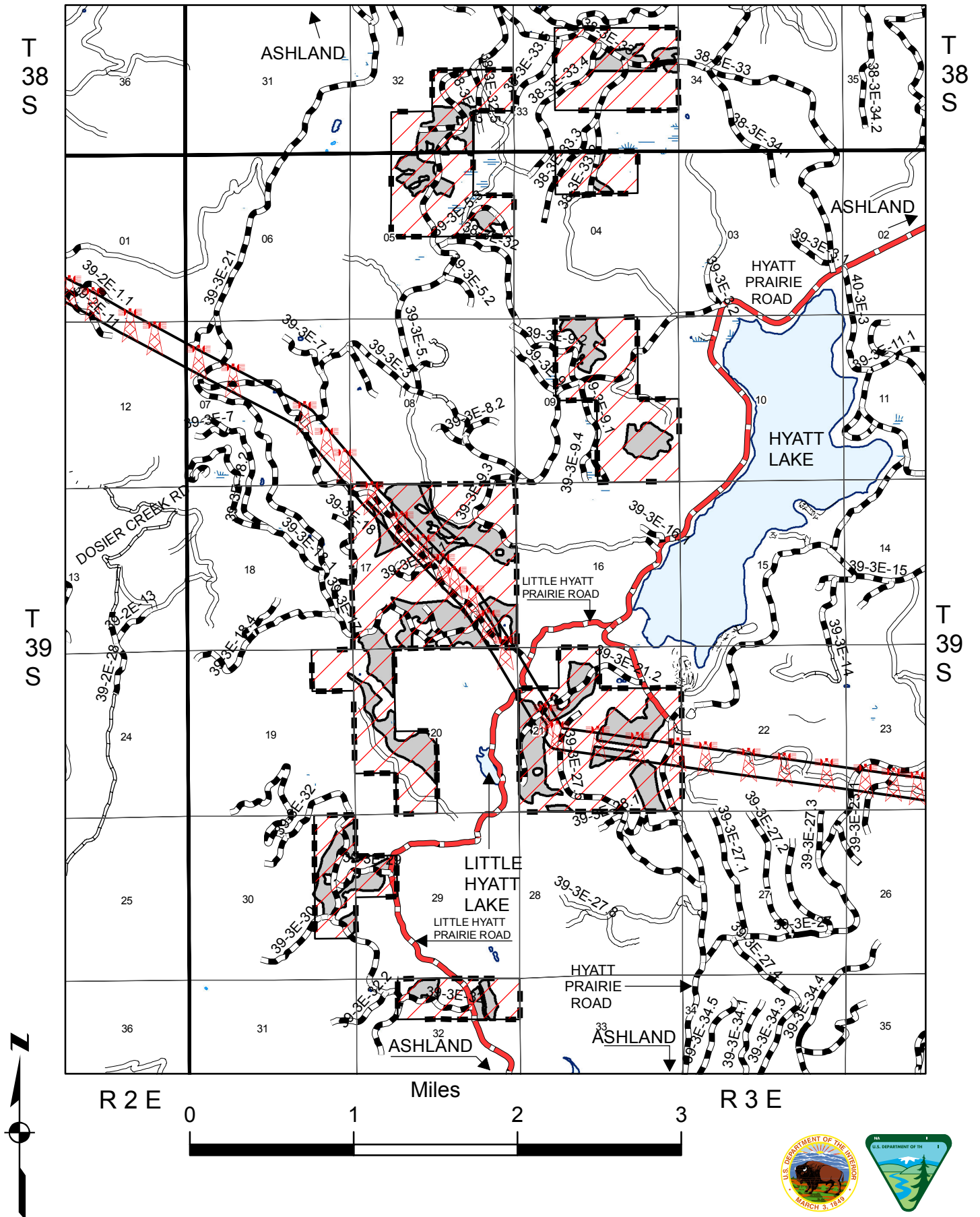
(b) SD-1i LANDING PILES Pile all slash located within one hundred (100) feet on each side of log landing. Slash shall be piled by hand or machine. Finished piles shall be tight and free of earth.

(1) A ten (10) foot by ten (10) foot cover of six (6) mil. black plastic or equivalent material shall cap each landing pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place. Maximum pile size shall be twenty (20) feet in diameter by fifteen (15) feet in height.

(H) Equal Opportunity in Employment

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

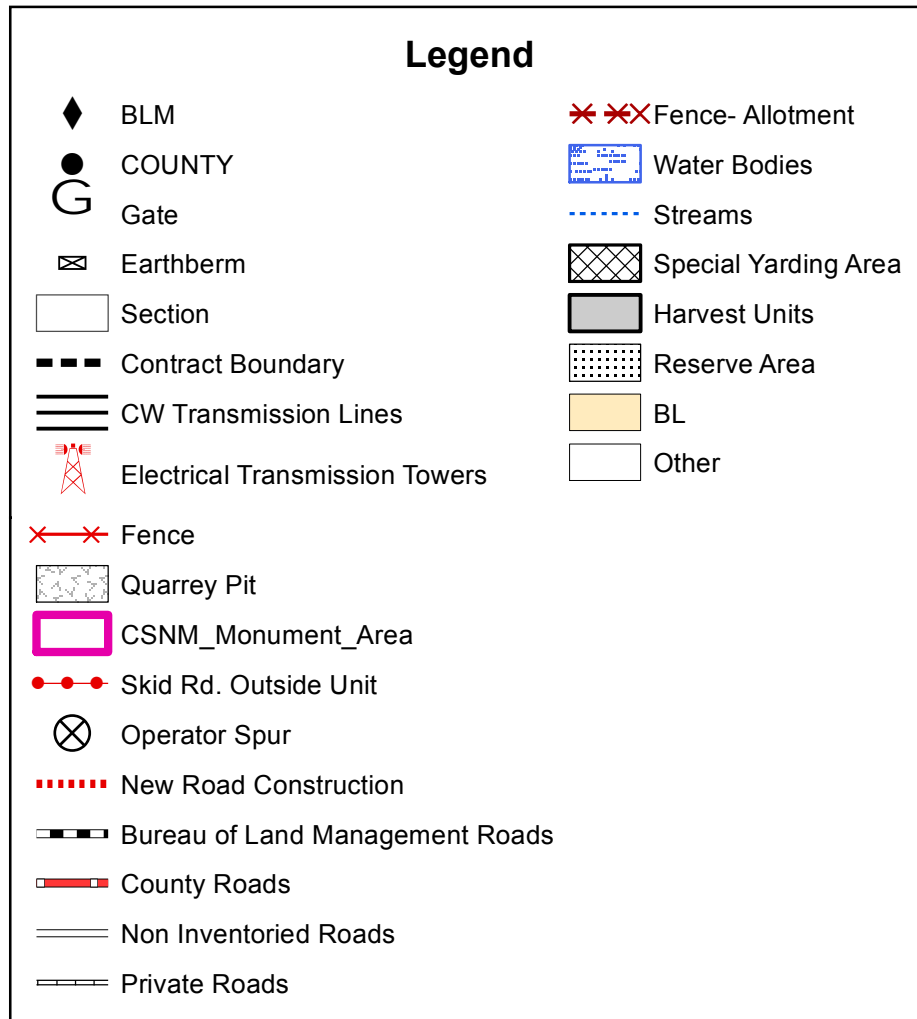
COTTONWOOD TIMBER SALE  
LOCATION MAP  
OR110-TS11-20





U.S.D.I. BLM MEDFORD DISTRICT SALE  
 COTTONWOOD TIMBER SALE  
 T.38S., R. 3E. SEC. 32, 33  
 T.39S., R. 3E. SEC. 4, 5, 8, 9, 17, 20, 21,  
 29, 30, 32

TIMBER SALE CONTRACT MAP  
 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 1 OF 10



TRACTOR YARD HARVEST UNITS

UNITS BLUE MARKED FOR CUTTING

4-2A, 4-2B, 5-1, 5-8, 9-1, 9-2, 17-2, 17-4, 17-5,  
 17-6, 20-1, 20-2, 21-1, 21-2A, 21-2B, 21-3,  
 21-4, 21-4C, 30-1, 30-2, 30-3, 32-2, 32-3,  
 32-4B, 32-5A, 32-5B, 33-1, 33-2, 33-3.....664.00 AC.

CABLE YARD HARVEST UNIT

UNIT BLUE MARKED FOR CUTTING

17-3.....57.00 AC.

ROAD RIGHT OF WAY.....4.00 AC.

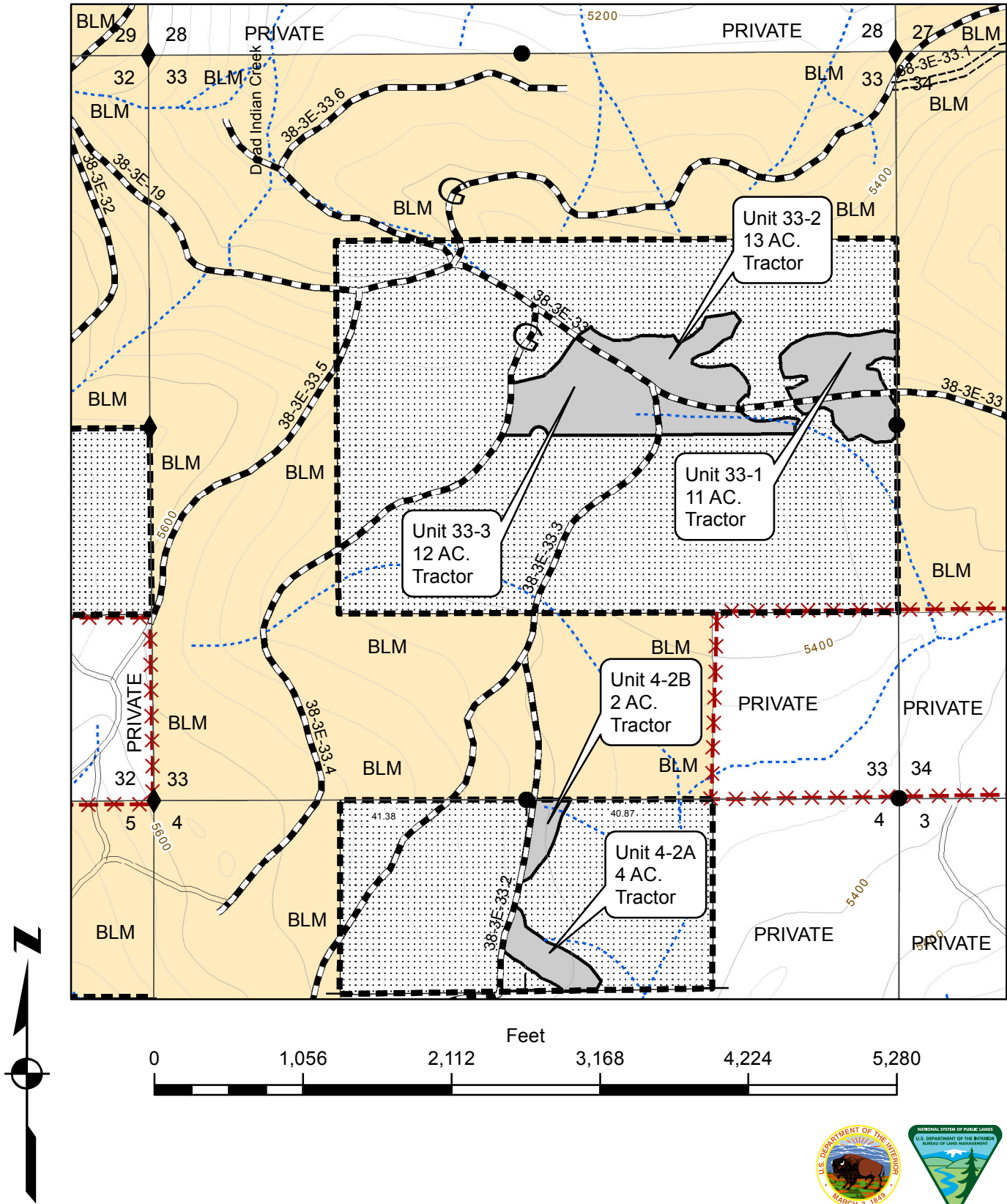
TOTAL.....725.00 AC.

RESERVE AREA.....2,020.50 AC.

TOTAL CONTRACT AREA.....2,745.50 AC.

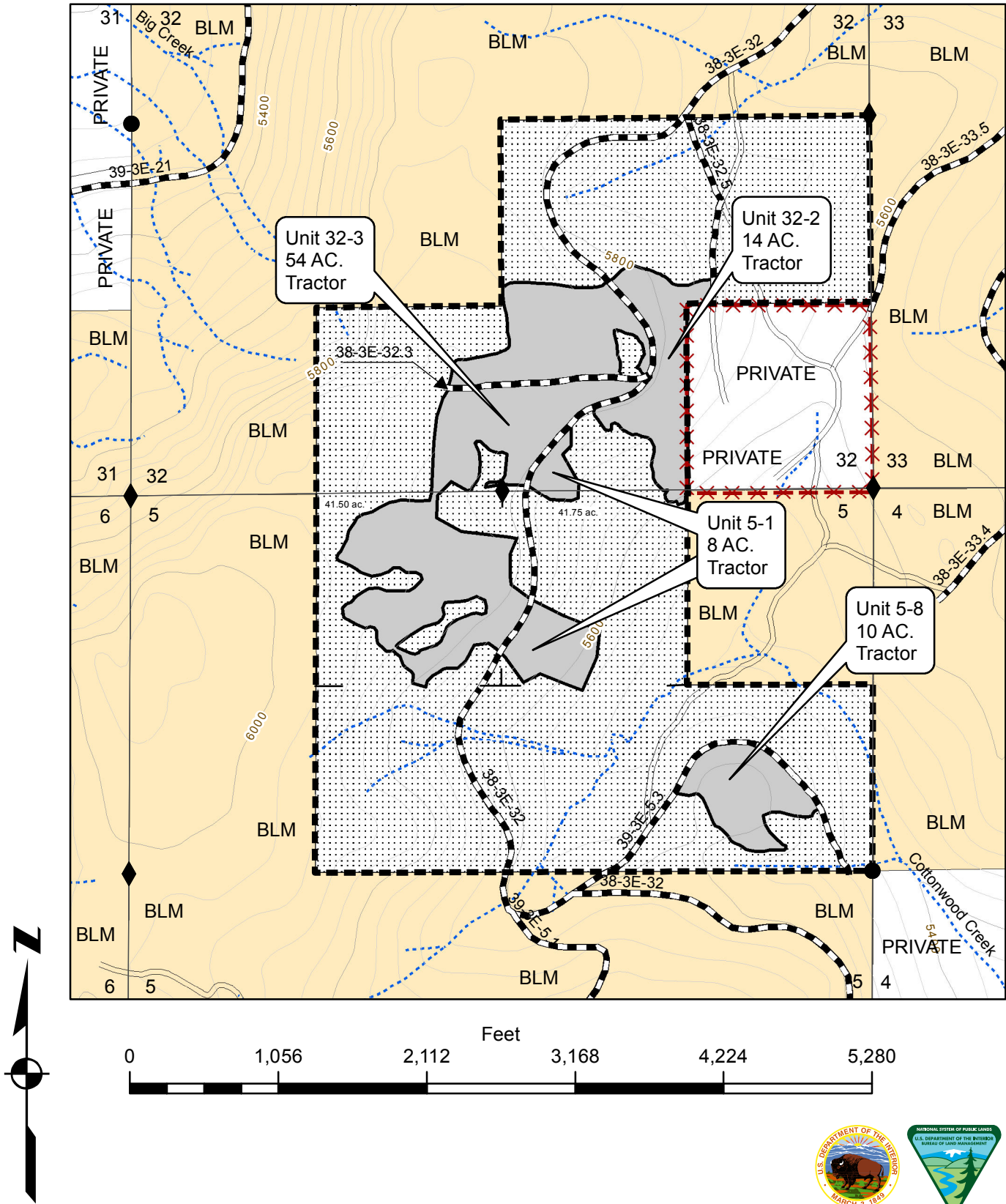
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 T.39S., R. 3E. SEC. 4, 5, 8, 9, 17, 20, 21,  
 29, 30, 32

TIMBER SALE CONTRACT MAP  
 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 2 OF 10



U.S.D.I. BLM MEDFORD DISTRICT SALE  
 COTTONWOOD TIMBER SALE  
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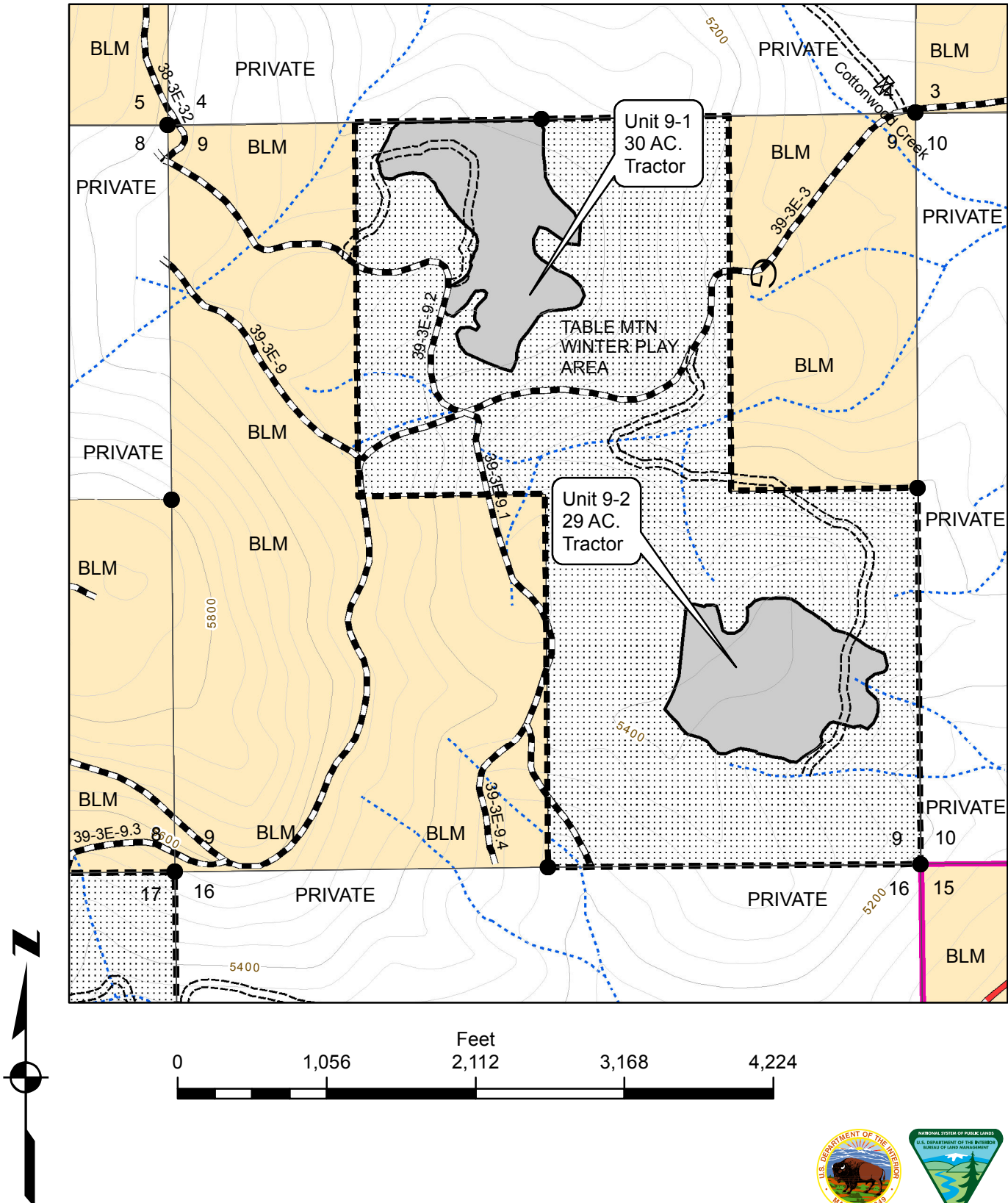
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 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 3 OF 10





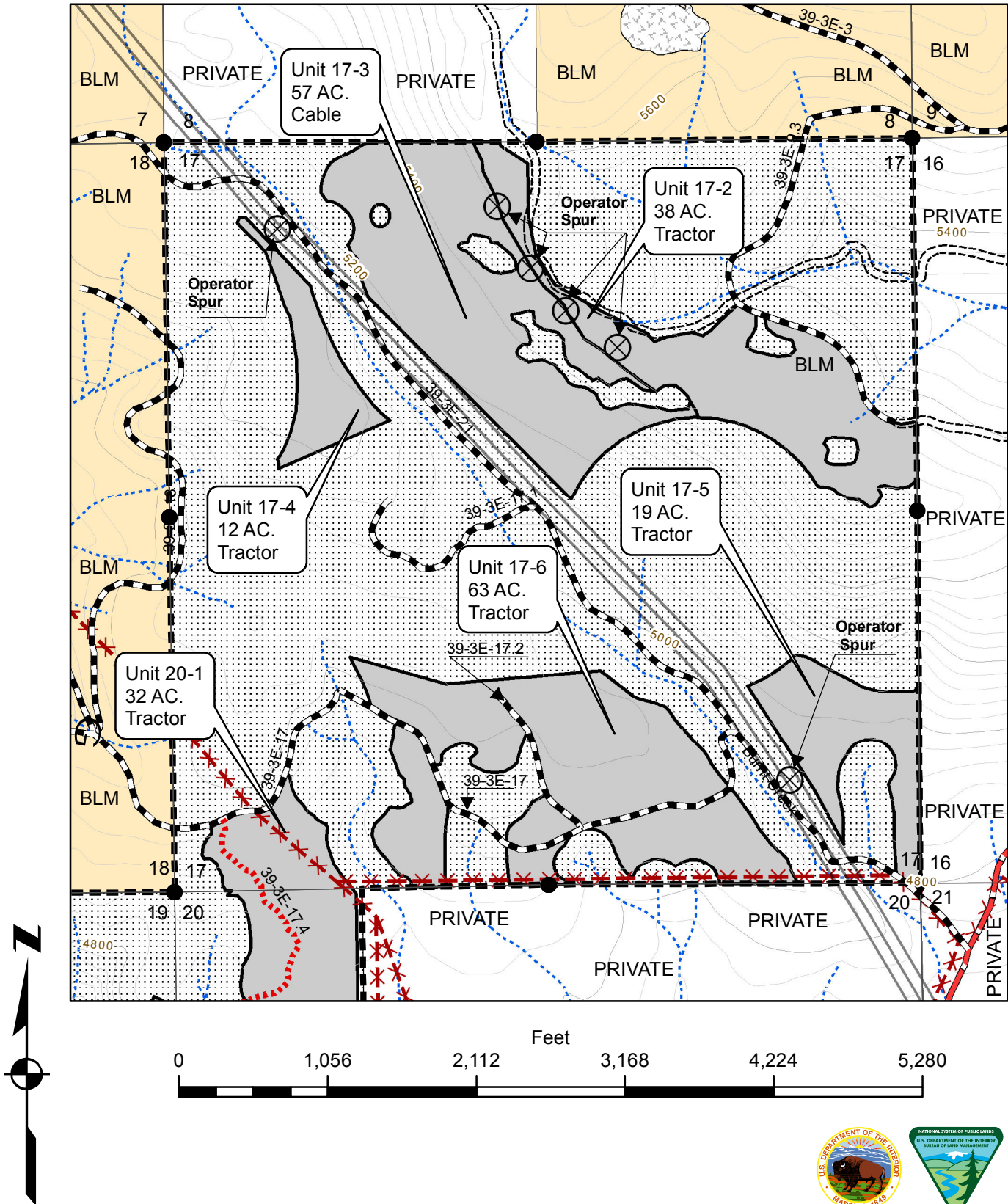
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29, 30, 32

TIMBER SALE CONTRACT MAP  
CONTRACT NO. OR-110-TS11-20  
EXHIBIT A  
PAGE 4 OF 10



U.S.D.I. BLM MEDFORD DISTRICT SALE  
 COTTONWOOD TIMBER SALE  
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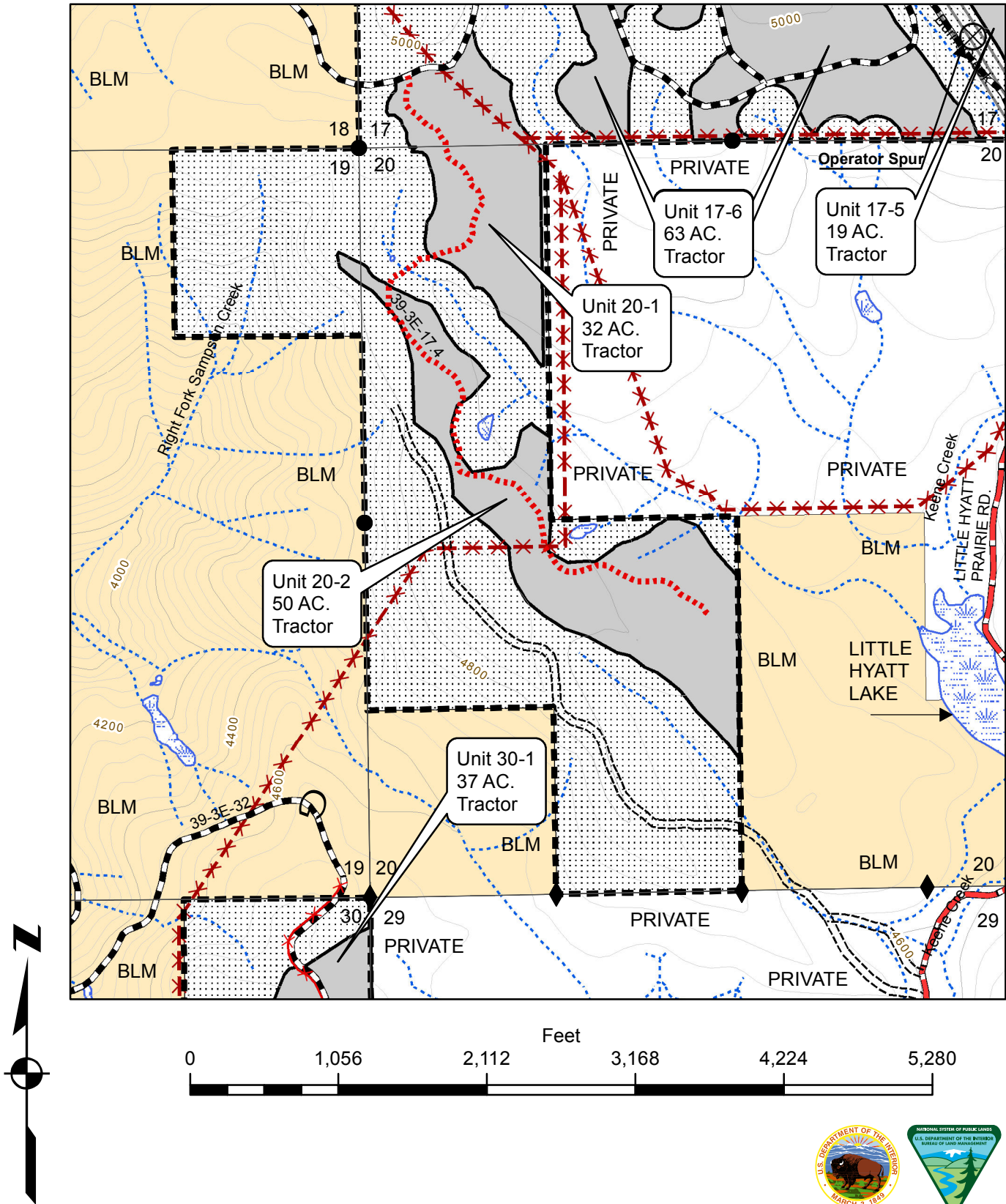
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 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 5 OF 10





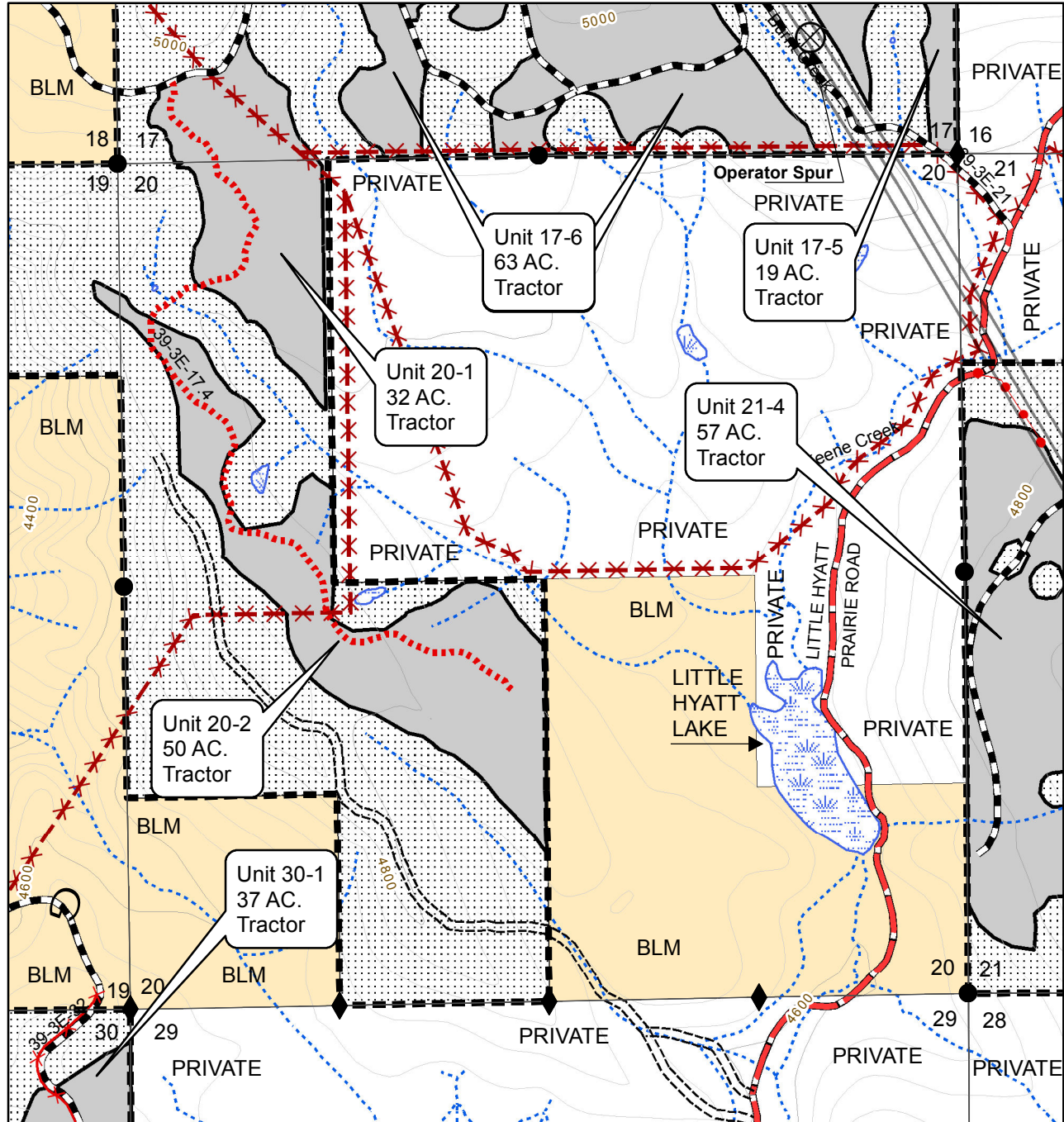
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TIMBER SALE CONTRACT MAP  
CONTRACT NO. OR-110-TS11-20  
EXHIBIT A  
PAGE 6 OF 10



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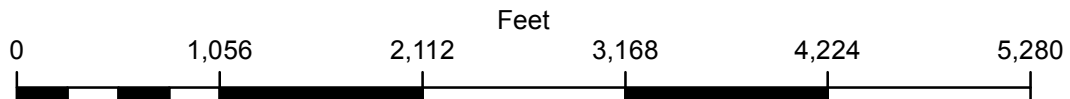
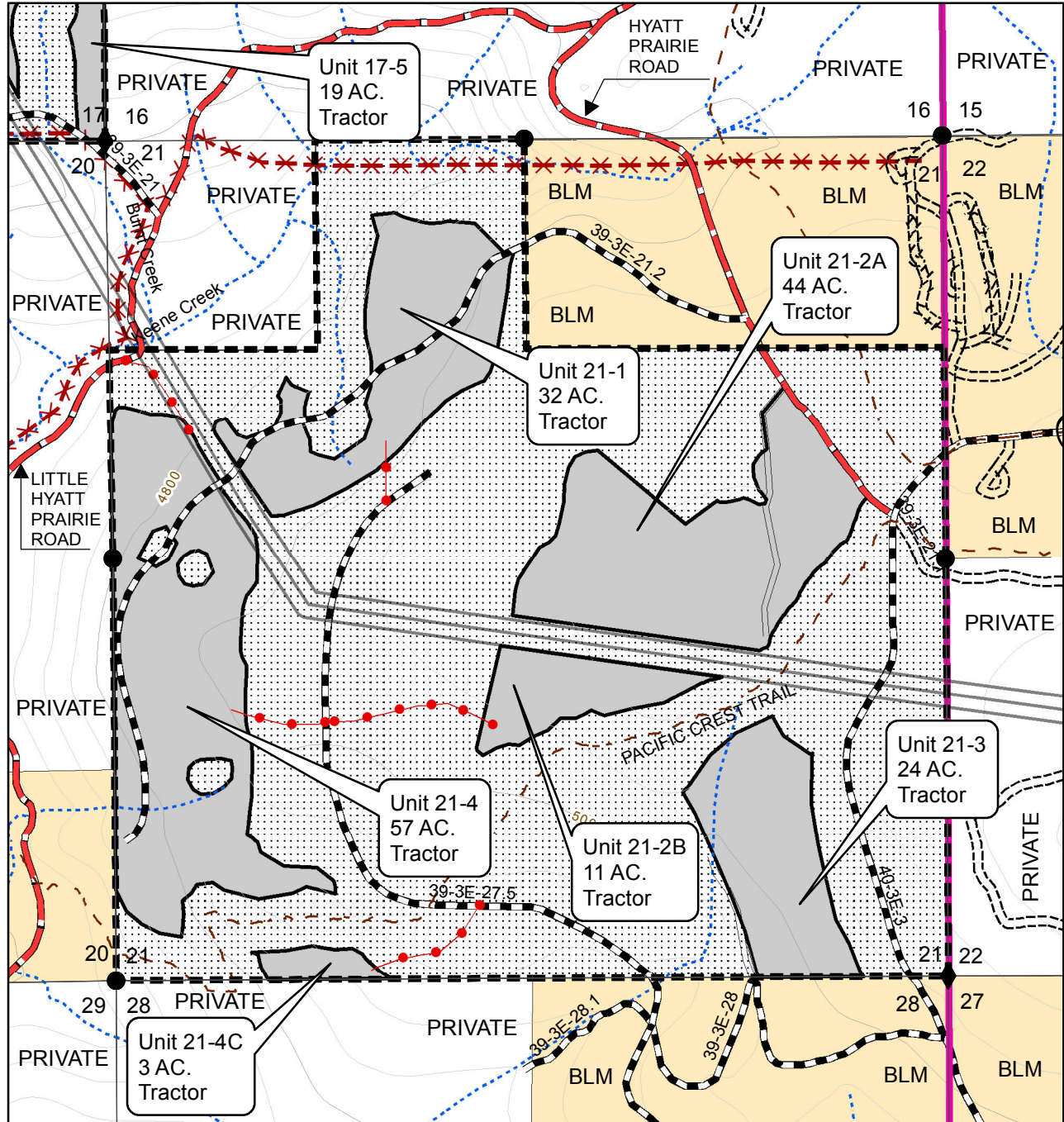
TIMBER SALE CONTRACT MAP  
 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 7 OF 10





U.S.D.I. BLM MEDFORD DISTRICT SALE  
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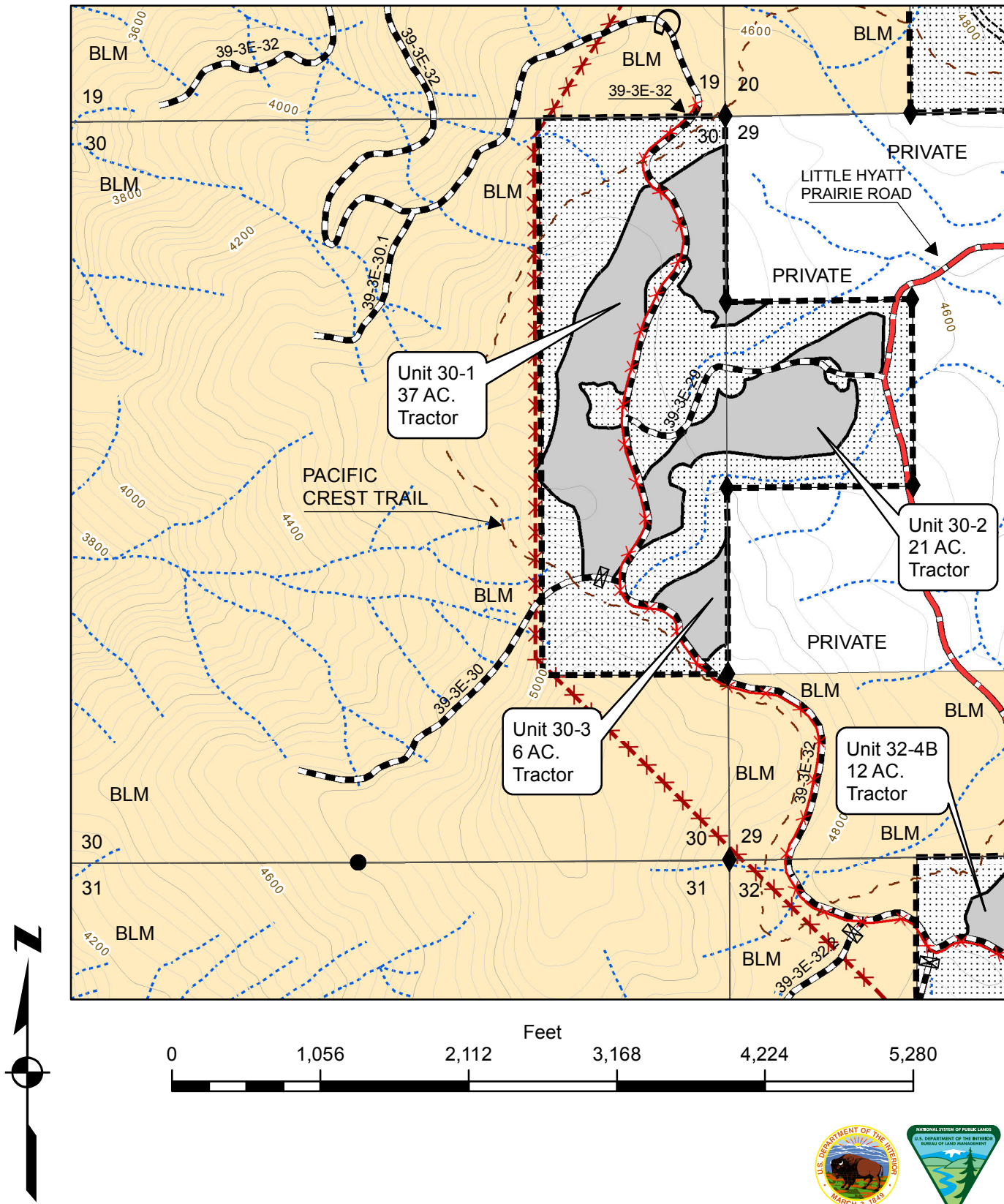
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 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 8 OF 10





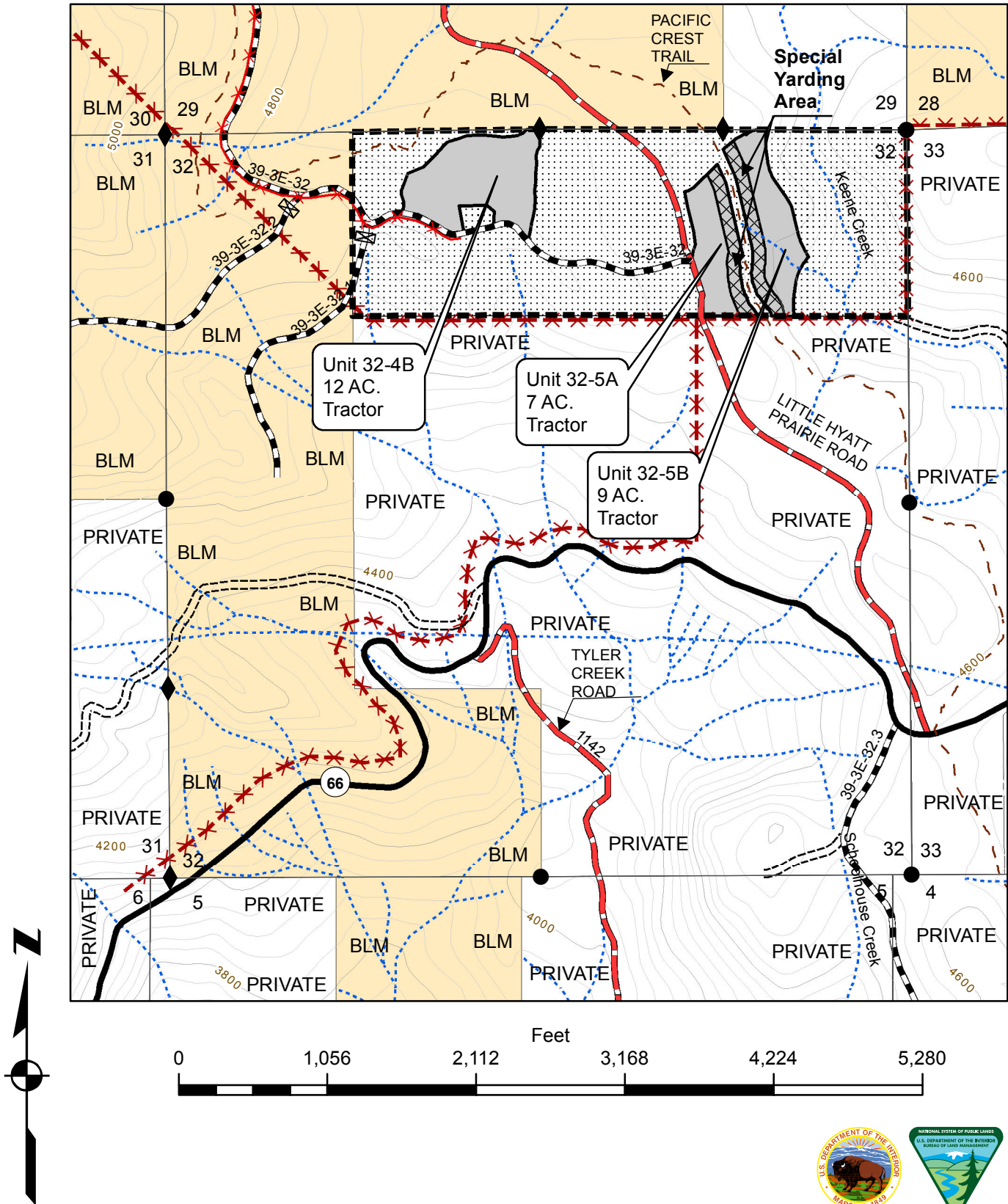
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29, 30, 32

EXHIBIT A  
PAGE 9 OF 10



U.S.D.I. BLM MEDFORD DISTRICT SALE  
 COTTONWOOD TIMBER SALE  
 T.38S., R. 3E. SEC. 32, 33  
 T.39S., R. 3E. SEC. 4, 5, 8, 9, 17, 20, 21,  
 29, 30, 32

TIMBER SALE CONTRACT MAP  
 CONTRACT NO. OR-110-TS11-20  
 EXHIBIT A  
 PAGE 10 OF 10





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

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**District :** Medford  
**Sale Name :** Cottonwood  
**Sale Date :** 09/15/2011  
**Appraisal Method :** 16' MBF

**Contract # :** TS 11-20  
**Job File # :** M11276  
**Master Unit :** Jackson  
**Planning Unit :** Ashland

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**Contents**

Timber Sale Summary	2
Stumpage Summary	5
Prospectus	6
Exhibit B	8
Volume Summary	14
Stump to Truck Costs	20
Other Allowances Costs	21
Consolidated Comments	22

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

Medford  
Cottonwood  
TS 11-20

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**Legal Description**

<b>Forest Type</b>	<b>Township</b>	<b>Range</b>	<b>Section</b>	<b>Subdivision</b>
O&C	38S	3E	32	N1/2 SE1/4, SE1/4 SW1/4, SW1/4 SE1/4.
O&C	38S	3E	33	S1/2 NE1/4, SE1/4 NW1/4, NE1/4 SW1/4, N1/2 SE1/4.
O&C	39S	3E	4	2 Unnamed Lots.
O&C	39S	3E	5	2 Unnamed Lots, S1/2 NE1/4.
O&C	39S	3E	9	W1/2 NE1/4, E1/2 NW 1/4, SE1/4.
O&C	39S	3E	17	ALL QUADRANTS.
O&C	39S	3E	19	NE1/4 NE1/4.
O&C	39S	3E	20	W1/2 NW1/4, N1/2 SW1/4, SE1/4 SW1/4.
O&C	39S	3E	21	S1/2 NE1/4, NE1/4 NW1/4, S1/2 NW1/4, S1/2.
O&C	39S	3E	30	E1/2 NE1/4, NE1/4 SE1/4.
O&C	39S	3E	29	SW1/4 NW1/4.
O&C	39S	3E	32	N1/2 NE1/4, NE1/4 NW1/4.

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

Medford  
Cottonwood  
TS 11-20

**Cutting Volume (16' MBF)**

Unit	WF	DF	PP	IC					Total	Regen	Partial	ROW
17-2	171	1		0					172	0	38	0
17-3	192	45		3					240	0	57	0
17-4	44	1							45	0	12	0
17-5	71	84	1						156	0	19	0
17-6	138	195	4						337	0	63	0
20-1	11	104	16						131	0	32	0
20-2	175	119	1						295	0	50	0
20ROW	23	24	7						54	0	0	4
21-1	122	7							129	0	32	0
21-2a	158	2							160	0	44	0
21-2b	60								60	0	11	0
21-3	67	12							79	0	24	0
21-4	151	67		0					218	0	57	0
21-4c	12	4							16	0	3	0
30-1	116	97	0						213	0	37	0
30-2	51	32	0						83	0	21	0
30-3	11	1							12	0	6	0
32-2	43								43	0	14	0
32-3	269	0							269	0	54	0
32-4b	9	34	2						45	0	12	0
32-5a	1	28	4						33	0	7	0
32-5b	14	30	1						45	0	9	0
33-1	30	1							31	0	11	0
33-2	54	0							54	0	13	0
33-3	54								54	0	12	0
4-2a	18	1							19	0	4	0
4-2b	15								15	0	2	0
5-1	67								67	0	8	0
5-8	22								22	0	10	0
9-1	75	2							77	0	30	0
9-2	56	4		0					60	0	29	0
Totals	2,300	895	36	3					3,234	0	721	4

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

Medford  
Cottonwood  
TS 11-20

**Logging Costs per 16' MBF**

Stump to Truck	\$	151.30
Transportation	\$	64.15
Road Construction	\$	13.15
Road Amortization	\$	0.00
Road Maintenance	\$	4.64

Other Allowances :

Fuels Treatment	\$ 1.11
Misc	\$ 1.94
Other Costs	\$ 2.72
<b>Total Other Allowances :</b>	<b>\$ 5.78</b>

Total Logging Costs per 16' MBF

**\$ 239.02**

**Utilization Centers**

Center #1 : White City 45 Miles  
Center #2 0 Miles  
Weighted distance to Utilization Centers 45

**Length of Contract**

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

**Profit & Risk**

Total Profit & Risk 7 %  
Basic Profit & Risk 7 % + Additional Risk 0 %  
Back Off 0 %

**Tract Features**

Avg Log White Fir : 83 bf All : 75 bf  
Recovery White Fir : 80 % All : 83 %  
Salvage White Fir : 0 % All : 0 %  
Avg Volume ( 16' MBF per Acre) 4  
Avg Yarding Slope 8 %  
Avg Yarding Distance (feet) 300  
Avg Age 90  
Volume Cable 7 %  
Volume Ground 93 %  
Volume Aerial 0 %  
Road Construction Stations 0.00  
Road Improvement Stations 0.00  
Road Renovation Stations 0.00  
Road Decommission Stations 0.00

**Cruise**

Cruised By Worman, Aaron  
Date 07/01/2011  
Type of Cruise 3-P, STR  
County, State Jackson, OR

**Net Volume**

Green (16' MBF) 3,234  
Salvage (16' MBF) 0  
White Fir Peeler 23  
Export Volume 0  
Scaling Allowance (\$0.75 per 16' MBF) \$2,425.50

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Medford  
Cottonwood  
TS 11-20

**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
WF	13,826	2,300	\$ 290.50	\$ 20.34	\$ 239.02	\$ 0.32		\$ 31.50	\$ 72,450.00
DF	5,064	895	\$ 355.95	\$ 24.92	\$ 239.02	\$ 0.06		\$ 92.10	\$ 82,429.50
PP	256	36	\$ 264.08	\$ 18.49	\$ 239.02			<b>\$ 26.40</b>	\$ 950.40
IC	35	3	\$ 470.00	\$ 32.90	\$ 239.02			\$ 198.10	\$ 594.30
<b>Totals</b>	<b>19,181</b>	<b>3,234</b>							<b>\$ 156,424.20</b>

**Log Code by Percent**

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
White Fir			1.0	49.0	42.0	8.0
Incense-cedar				23.0	65.0	12.0
Douglas-fir			1.0	43.0	47.0	9.0
Ponderosa Pine				46.0	50.0	4.0

**Marginal Log Volume**

Species	Grade #7	Grade #8
White Fir	82	
Incense-cedar		
Douglas-fir	6	
Ponderosa Pine		

**Appraised By :** Worman, Aaron

**Date :** 07/26/2011

**Area Approval By :** Worman, Aaron

**Date :** 07/26/2011

**District Approval By :**

**Date :**



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

Medford  
Cottonwood  
TS 11-20

**Prospectus**

**Appraisal Method : (16' MBF)**

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
White Fir	13,826	2,300	1,748	3,953
Douglas-fir	5,064	895	703	1,598
Ponderosa Pine	256	36	27	65
Incense-cedar	35	3	3	8
<b>Total</b>	<b>19,181</b>	<b>3,234</b>	<b>2,481</b>	<b>5,624</b>

**All Species**

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,919	19,181	204	15.1	3,706	49,462	74

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
49,462	3,992	53,454	2	3,234	3,919	83 %

**White Fir**

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
2,881	13,826	208	15.5	2,677	32,060	83

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
32,060	3,589	35,649	2	2,300	2,881	80 %



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

Medford  
Cottonwood  
TS 11-20

**Cutting Areas**

<b>Unit</b>	<b>Regen Acres</b>	<b>Partial Cut Acres</b>	<b>Right Of Way Acres</b>	<b>Total Acres</b>
17-2		38		38
17-3		57		57
17-4		12		12
17-5		19		19
17-6		63		63
20-1		32		32
20-2		50		50
20ROW			4	4
21-1		32		32
21-2a		44		44
21-2b		11		11
21-3		24		24
21-4		57		57
21-4c		3		3
30-1		37		37
30-2		21		21
30-3		6		6
32-2		14		14
32-3		54		54
32-4b		12		12
32-5a		7		7
32-5b		9		9
33-1		11		11
33-2		13		13
33-3		12		12
4-2a		4		4
4-2b		2		2
5-1		8		8
5-8		10		10
9-1		30		30
9-2		29		29
<b>Totals :</b>		<b>721</b>	<b>4</b>	<b>725</b>

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

Medford  
Cottonwood  
TS 11-20

**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
White Fir	2,300		
Douglas-fir	895		
Ponderosa Pine	36		
Incense-cedar	3		
<b>Sale Totals</b>	<b>3,234</b>		

**Unit Details (16' MB)**

**Unit 17-2                      38 Acres                      Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1		
Incense-cedar			
White Fir	171		
<b>Unit Totals</b>	<b>172</b>		

**Unit 17-3                      57 Acres                      Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	45		
Incense-cedar	3		
White Fir	192		
<b>Unit Totals</b>	<b>240</b>		

**Unit 17-4                      12 Acres                      Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1		
White Fir	44		
<b>Unit Totals</b>	<b>45</b>		

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

Medford  
Cottonwood  
TS 11-20

**Unit 17-5 19 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	84		
Ponderosa Pine	1		
White Fir	71		
<b>Unit Totals</b>	<b>156</b>		

**Unit 17-6 63 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	195		
Ponderosa Pine	4		
White Fir	138		
<b>Unit Totals</b>	<b>337</b>		

**Unit 20-1 32 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	104		
Ponderosa Pine	16		
White Fir	11		
<b>Unit Totals</b>	<b>131</b>		

**Unit 20-2 50 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	119		
Ponderosa Pine	1		
White Fir	175		
<b>Unit Totals</b>	<b>295</b>		

**Unit 20ROW 4 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	24		
Ponderosa Pine	7		
White Fir	23		
<b>Unit Totals</b>	<b>54</b>		

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

Medford  
Cottonwood  
TS 11-20

**Unit 21-1 32 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	7		
White Fir	122		
<b>Unit Totals</b>	<b>129</b>		

**Unit 21-2a 44 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	2		
White Fir	158		
<b>Unit Totals</b>	<b>160</b>		

**Unit 21-2b 11 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	60		
<b>Unit Totals</b>	<b>60</b>		

**Unit 21-3 24 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	12		
White Fir	67		
<b>Unit Totals</b>	<b>79</b>		

**Unit 21-4 57 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	67		
Incense-cedar			
White Fir	151		
<b>Unit Totals</b>	<b>218</b>		

**Unit 21-4c 3 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	4		
White Fir	12		
<b>Unit Totals</b>	<b>16</b>		

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

Medford  
Cottonwood  
TS 11-20

**Unit 30-1 37 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	97		
Ponderosa Pine			
White Fir	116		
<b>Unit Totals</b>	<b>213</b>		

**Unit 30-2 21 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	32		
Ponderosa Pine			
White Fir	51		
<b>Unit Totals</b>	<b>83</b>		

**Unit 30-3 6 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1		
White Fir	11		
<b>Unit Totals</b>	<b>12</b>		

**Unit 32-2 14 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	43		
<b>Unit Totals</b>	<b>43</b>		

**Unit 32-3 54 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir			
White Fir	269		
<b>Unit Totals</b>	<b>269</b>		

**Unit 32-4b 12 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	34		
Ponderosa Pine	2		
White Fir	9		
<b>Unit Totals</b>	<b>45</b>		

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

Medford  
Cottonwood  
TS 11-20

**Unit 32-5a 7 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	28		
Ponderosa Pine	4		
White Fir	1		
<b>Unit Totals</b>	<b>33</b>		

**Unit 32-5b 9 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	30		
Ponderosa Pine	1		
White Fir	14		
<b>Unit Totals</b>	<b>45</b>		

**Unit 33-1 11 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1		
White Fir	30		
<b>Unit Totals</b>	<b>31</b>		

**Unit 33-2 13 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir			
White Fir	54		
<b>Unit Totals</b>	<b>54</b>		

**Unit 33-3 12 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	54		
<b>Unit Totals</b>	<b>54</b>		

**Unit 4-2a 4 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	1		
White Fir	18		
<b>Unit Totals</b>	<b>19</b>		

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

Medford  
Cottonwood  
TS 11-20

**Unit 4-2b 2 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	15		
<b>Unit Totals</b>	<b>15</b>		

**Unit 5-1 8 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	67		
<b>Unit Totals</b>	<b>67</b>		

**Unit 5-8 10 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
White Fir	22		
<b>Unit Totals</b>	<b>22</b>		

**Unit 9-1 30 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	2		
White Fir	75		
<b>Unit Totals</b>	<b>77</b>		

**Unit 9-2 29 Acres Value per Acre : \$0.00**

Species	Net Volume	Bid Price	Species Value
Douglas-fir	4		
Incense-cedar			
White Fir	56		
<b>Unit Totals</b>	<b>60</b>		

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

Medford  
Cottonwood  
TS 11-20

**Sale Volume Totals**

725 Acres      0 Regen      721 Partial      4 R/W      31 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
White Fir	13,826	32,060	3,589	2,300	2,677	2,881	1,748	2,046	2,200	3,953	4,607	5,018
Douglas-fir	5,064	16,572	311	895	984	990	703	773	778	1,598	1,769	1,781
Ponderosa Pine	256	743	92	36	41	44	27	32	34	65	77	83
Incense-cedar	35	87	0	3	4	4	3	4	4	8	9	9
<b>Totals</b>	<b>19,181</b>	<b>49,462</b>	<b>3,992</b>	<b>3,234</b>	<b>3,706</b>	<b>3,919</b>	<b>2,481</b>	<b>2,855</b>	<b>3,016</b>	<b>5,624</b>	<b>6,462</b>	<b>6,891</b>

**Unit Totals**

Unit : 17-2      38 Acres      0 Regen      38 Partial      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	907	2,381	267	214	199	171
Douglas-fir	6	25		2	2	1
Incense-cedar	1	5				
<b>Unit Totals</b>	<b>914</b>	<b>2,411</b>	<b>267</b>	<b>216</b>	<b>201</b>	<b>172</b>

Unit : 17-3      57 Acres      0 Regen      57 Partial      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,057	2,674	299	240	223	192
Douglas-fir	113	841	16	50	50	45
Incense-cedar	26	68		3	3	3
<b>Unit Totals</b>	<b>1,196</b>	<b>3,583</b>	<b>315</b>	<b>293</b>	<b>276</b>	<b>240</b>

Unit : 17-4      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
White Fir	290	616	69	55	51	44
Douglas-fir	5	12		1	1	1
<b>Unit Totals</b>	<b>295</b>	<b>628</b>	<b>69</b>	<b>56</b>	<b>52</b>	<b>45</b>

Unit : 17-5      19 Acres      0 Regen      19 Partial      0 R/W

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	310	1,556	29	93	92	84
White Fir	435	995	111	89	83	71



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

Medford  
Cottonwood  
TS 11-20

Ponderosa Pine	6	17	2	1	1	1
<b>Unit Totals</b>	<b>751</b>	<b>2,568</b>	<b>142</b>	<b>183</b>	<b>176</b>	<b>156</b>

**Unit : 17-6                      63 Acres                      0 Regen                      63 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
Douglas-fir	1,187	3,613	68	216	215	195
White Fir	1,018	1,931	216	173	161	138
Ponderosa Pine	26	76	9	5	4	4
<b>Unit Totals</b>	<b>2,231</b>	<b>5,620</b>	<b>293</b>	<b>394</b>	<b>380</b>	<b>337</b>

**Unit : 20-1                      32 Acres                      0 Regen                      32 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
Douglas-fir	761	1,932	37	115	115	104
Ponderosa Pine	110	320	40	19	18	16
White Fir	92	154	17	14	13	11
<b>Unit Totals</b>	<b>963</b>	<b>2,406</b>	<b>94</b>	<b>148</b>	<b>146</b>	<b>131</b>

**Unit : 20-2                      50 Acres                      0 Regen                      50 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	1,413	2,440	273	219	204	175
Douglas-fir	773	2,211	42	132	131	119
Ponderosa Pine	8	22	3	1	1	1
<b>Unit Totals</b>	<b>2,194</b>	<b>4,673</b>	<b>318</b>	<b>352</b>	<b>336</b>	<b>295</b>

**Unit : 20ROW                      4 Acres                      0 Regen                      0 Partial                      4 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	128	315	35	28	26	23
Douglas-fir	92	441	8	26	26	24
Ponderosa Pine	52	151	19	9	9	7
<b>Unit Totals</b>	<b>272</b>	<b>907</b>	<b>62</b>	<b>63</b>	<b>61</b>	<b>54</b>

**Unit : 21-1                      32 Acres                      0 Regen                      32 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	936	1,706	191	153	142	122
Douglas-fir	51	121	2	7	7	7
<b>Unit Totals</b>	<b>987</b>	<b>1,827</b>	<b>193</b>	<b>160</b>	<b>149</b>	<b>129</b>

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

Medford  
Cottonwood  
TS 11-20

**Unit : 21-2a                      44 Acres                      0 Regen                      44 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	716	2,205	247	198	184	158
Douglas-fir	13	39	1	2	2	2
<b>Unit Totals</b>	<b>729</b>	<b>2,244</b>	<b>248</b>	<b>200</b>	<b>186</b>	<b>160</b>

**Unit : 21-2b                      11 Acres                      0 Regen                      11 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	285	837	94	75	70	60
<b>Unit Totals</b>	<b>285</b>	<b>837</b>	<b>94</b>	<b>75</b>	<b>70</b>	<b>60</b>

**Unit : 21-3                      24 Acres                      0 Regen                      24 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	342	935	105	84	78	67
Douglas-fir	47	216	4	13	13	12
<b>Unit Totals</b>	<b>389</b>	<b>1,151</b>	<b>109</b>	<b>97</b>	<b>91</b>	<b>79</b>

**Unit : 21-4                      57 Acres                      0 Regen                      57 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	1,150	2,105	236	189	176	151
Douglas-fir	417	1,233	23	74	73	67
Incense-cedar	2	3				
<b>Unit Totals</b>	<b>1,569</b>	<b>3,341</b>	<b>259</b>	<b>263</b>	<b>249</b>	<b>218</b>

**Unit : 21-4c                      3 Acres                      0 Regen                      3 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	77	166	19	15	14	12
Douglas-fir	29	78	1	5	5	4
<b>Unit Totals</b>	<b>106</b>	<b>244</b>	<b>20</b>	<b>20</b>	<b>19</b>	<b>16</b>

**Unit : 30-1                      37 Acres                      0 Regen                      37 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	725	1,612	181	145	135	116
Douglas-fir	423	1,788	34	107	106	97
Ponderosa Pine	2	6	1			
<b>Unit Totals</b>	<b>1,150</b>	<b>3,406</b>	<b>216</b>	<b>252</b>	<b>241</b>	<b>213</b>

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

Medford  
Cottonwood  
TS 11-20

**Unit : 30-2                      21 Acres                      0 Regen                      21 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	298	709	79	64	59	51
Douglas-fir	160	599	11	36	36	32
Ponderosa Pine	1	3				
<b>Unit Totals</b>	<b>459</b>	<b>1,311</b>	<b>90</b>	<b>100</b>	<b>95</b>	<b>83</b>

**Unit : 30-3                      6 Acres                      0 Regen                      6 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
White Fir	64	151	17	14	13	11
Douglas-fir	2	11		1	1	1
<b>Unit Totals</b>	<b>66</b>	<b>162</b>	<b>17</b>	<b>15</b>	<b>14</b>	<b>12</b>

**Unit : 32-2                      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
White Fir	229	600	67	54	50	43
<b>Unit Totals</b>	<b>229</b>	<b>600</b>	<b>67</b>	<b>54</b>	<b>50</b>	<b>43</b>

**Unit : 32-3                      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
White Fir	1,174	3,744	419	338	313	269
Douglas-fir	1	5				
<b>Unit Totals</b>	<b>1,175</b>	<b>3,749</b>	<b>419</b>	<b>338</b>	<b>313</b>	<b>269</b>

**Unit : 32-4b                      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	198	629	12	38	37	34
White Fir	75	127	14	11	11	9
Ponderosa Pine	17	49	6	3	3	2
<b>Unit Totals</b>	<b>290</b>	<b>805</b>	<b>32</b>	<b>52</b>	<b>51</b>	<b>45</b>

**Unit : 32-5a                      7 Acres                      0 Regen                      7 Partial                      0 R/W**

SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	206	520	10	31	31	28
Ponderosa Pine	25	73	9	4	4	4
White Fir	14	17	2	2	1	1

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

Medford  
Cottonwood  
TS 11-20

<b>Unit Totals</b>	<b>245</b>	<b>610</b>	<b>21</b>	<b>37</b>	<b>36</b>	<b>33</b>
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**Unit : 32-5b                      9 Acres                      0 Regen                      9 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
Douglas-fir	223	560	11	33	33	30
White Fir	134	191	21	17	16	14
Ponderosa Pine	9	26	3	2	1	1
<b>Unit Totals</b>	<b>366</b>	<b>777</b>	<b>35</b>	<b>52</b>	<b>50</b>	<b>45</b>

**Unit : 33-1                      11 Acres                      0 Regen                      11 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	225	415	47	37	35	30
Douglas-fir	7	18		1	1	1
<b>Unit Totals</b>	<b>232</b>	<b>433</b>	<b>47</b>	<b>38</b>	<b>36</b>	<b>31</b>

**Unit : 33-2                      13 Acres                      0 Regen                      13 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	331	747	84	67	62	54
Douglas-fir	4	7				
<b>Unit Totals</b>	<b>335</b>	<b>754</b>	<b>84</b>	<b>67</b>	<b>62</b>	<b>54</b>

**Unit : 33-3                      12 Acres                      0 Regen                      12 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	233	752	84	68	63	54
<b>Unit Totals</b>	<b>233</b>	<b>752</b>	<b>84</b>	<b>68</b>	<b>63</b>	<b>54</b>

**Unit : 4-2a                      4 Acres                      0 Regen                      4 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	110	254	28	23	21	18
Douglas-fir	5	14		1	1	1
<b>Unit Totals</b>	<b>115</b>	<b>268</b>	<b>28</b>	<b>24</b>	<b>22</b>	<b>19</b>

**Unit : 4-2b                      2 Acres                      0 Regen                      2 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	67	213	24	19	18	15
<b>Unit Totals</b>	<b>67</b>	<b>213</b>	<b>24</b>	<b>19</b>	<b>18</b>	<b>15</b>

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

Medford  
Cottonwood  
TS 11-20

**Unit : 5-1                      8 Acres                      0 Regen                      8 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	337	940	105	84	78	67
<b>Unit Totals</b>	<b>337</b>	<b>940</b>	<b>105</b>	<b>84</b>	<b>78</b>	<b>67</b>

**Unit : 5-8                      10 Acres                      0 Regen                      10 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	153	308	34	28	26	22
<b>Unit Totals</b>	<b>153</b>	<b>308</b>	<b>34</b>	<b>28</b>	<b>26</b>	<b>22</b>

**Unit : 9-1                      30 Acres                      0 Regen                      30 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	437	1,044	117	94	87	75
Douglas-fir	6	31	1	2	2	2
<b>Unit Totals</b>	<b>443</b>	<b>1,075</b>	<b>118</b>	<b>96</b>	<b>89</b>	<b>77</b>

**Unit : 9-2                      29 Acres                      0 Regen                      29 Partial                      0 R/W**

<b>SpeciesName</b>	<b># of Trees</b>	<b>Merch Logs</b>	<b>Cull Logs</b>	<b>16' MBF Gross</b>	<b>16' MBF GM</b>	<b>16' MBF Net</b>
White Fir	374	776	87	70	65	56
Douglas-fir	25	72	1	4	4	4
Incense-cedar	6	11		1	1	
<b>Unit Totals</b>	<b>405</b>	<b>859</b>	<b>88</b>	<b>75</b>	<b>70</b>	<b>60</b>

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

Medford  
Cottonwood  
TS 11-20

**Stump to Truck Costs**

**Total (16' MBF)**

<b>Total Stump to Truck Costs</b>	<b>Net Volume</b>	<b>Cost / Net Volume</b>
\$ 489,318.26	3,234	\$ 151.30

**Detail**

**Yarding & Loading**

<b>Yarding System</b>	<b>Unit Of Measure</b>	<b>Units</b>	<b>Cost / Unit</b>	<b>Total Cost</b>
Med Twr=40-70	GM MBF	276	\$ 237.16	\$ 65,456.16
Cut To Length	GM MBF	2,870	\$ 121.07	\$ 347,470.90
Track Skidder	GM MBF	560	\$ 120.02	\$ 67,211.20
<b>Subtotal</b>				<b>\$ 480,138.26</b>

**Other Costs**

<b>Explanation</b>	<b>Unit Of Measure</b>	<b>Units</b>	<b>Cost / Unit</b>	<b>Total Cost</b>
Ops spur construction	hour	8	\$ 85.00	\$ 680.00
<b>Subtotal</b>				<b>\$ 680.00</b>

**Additional Move-Ins**

<b>Equipment</b>	<b># Move-In</b>	<b>Cost / Move In</b>	<b>Total Cost</b>
Yarder / Loader	1	\$ 1,500.00	\$ 1,500.00
Skidder	4	\$ 500.00	\$ 2,000.00
Delimber	4	\$ 500.00	\$ 2,000.00
Dozer	4	\$ 500.00	\$ 2,000.00
Harvester	2	\$ 500.00	\$ 1,000.00
<b>Subtotal</b>			<b>\$ 8,500.00</b>

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

Medford  
Cottonwood  
TS 11-20

**Other Allowances Costs**

**Total (16' MBF)**

<b>Total Other Allowances Costs</b>	<b>Net Volume</b>	<b>Cost / Net Volume *</b>	<b>Total Buy Out Cost</b>
\$18,686.00	3,234	\$5.78	\$0.00

**Fuels Treatment**

**Detail (16' MBF)**

<b>Cost Item</b>	<b>Total Cost</b>	<b>Cost / Net Vol *</b>	<b>Buy Out</b>	<b>Buy Out Cost</b>
Hand Pile, Cvr - Level 1	\$ 3,600.00	\$ 1.11	N	\$ 0.00
<b>Subtotal</b>	<b>\$ 3,600.00</b>	<b>\$ 1.11</b>		<b>\$ 0.00</b>

**Misc**

**Detail (16' MBF)**

<b>Cost Item</b>	<b>Total Cost</b>	<b>Cost / Net Vol *</b>	<b>Buy Out</b>	<b>Buy Out Cost</b>
Hand seeding@ 20lbs/acre	\$ 2,880.00	\$ 0.89	N	\$ 0.00
Mulching-1000lbs/acre	\$ 2,250.00	\$ 0.70	N	\$ 0.00
Seed and Mulch-labor	\$ 1,152.00	\$ 0.36		\$ 0.00
<b>Subtotal</b>	<b>\$ 6,282.00</b>	<b>\$ 1.94</b>		<b>\$ 0.00</b>

**Other Costs**

**Detail (16' MBF)**

<b>Cost Item</b>	<b>Total Cost</b>	<b>Cost / Net Vol *</b>	<b>Buy Out</b>	<b>Buy Out Cost</b>
Skid Location	\$ 320.00	\$ 0.10	N	\$ 0.00
Skid Construction	\$ 1,200.00	\$ 0.37	N	\$ 0.00
Waterbar Skids	\$ 4,275.00	\$ 1.32	N	\$ 0.00
Barricades	\$ 450.00	\$ 0.14	N	\$ 0.00
Barricades	\$ 2,175.00	\$ 0.67	N	\$ 0.00
Equipment Washing	\$ 384.00	\$ 0.12	N	\$ 0.00
<b>Subtotal</b>	<b>\$ 8,804.00</b>	<b>\$ 2.72</b>		<b>\$ 0.00</b>

\* 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  
Cottonwood  
TS 11-20

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**General**

**Yarding & Loading**

3 logging systems analyzed. Cable= Medium tower. Cut to length= Harvest/feller buncher capable of < 22" diam. with Skidder. Track skidder= Includes manually falling > 22". Additional move-ins due to BST road treatments. Ops spur= yarder rd for 17-3.

**Road Costs**

(see Engineering Appraisal for details).

**Transportation**

GM volume of 1279 hauled down Dead Indian Hwy, 50 miles. GM volume of 2427 hauled down Hwy 66, 43 miles. Weighted average= 45 miles.

(see Transportation appendix for details).

**Other Allowances**

1st barricade allowance= barricade temp spur rds in sec 17. 2nd barricade allowance for blocking all skids across the sale. Seed and mulch= \$8/Lb for seed, 20Lb per ac. Mulch is \$250/ton, 1000Lb/ac = \$125. 4 days labor for seed and mulch. Fuels costs are @ 10acres- will cover in SD-5 stip for additional acres.

**Prospectus**

Scaling \$ 2425.50



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

# 1. Road Use Fees - Amortization

R/W Number	Road Number	Rd Use Fee	Vol x MBF	Road Use = Obligation
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(1) Subtotal

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

Road Number and Segment	A Surf N Type	Maint Mi	Vol x Fee x MBF	Total = Maint
38-3E-19.00A	A BST1	2.35	0.65 574	\$876.79
38-3E-19.00B	A BST1	0.65	0.65 173	\$73.09
38-3E-32.00	A ASC	0.45	1.13 5	\$2.54
38-3E-32.00	A ASC	1.07	1.13 172	\$207.97
38-3E-32.00	A ASC	1.31	1.13 17	\$25.17
38-3E-32.00	A ASC	1.50	1.13 185	\$313.58
38-3E-32.00	A ASC	2.03	1.13 22	\$50.47
38-3E-33.00	A ASC	0.65	1.13 31	\$22.77
38-3E-33.00	A ASC	0.32	1.13 129	\$46.65
38-3E-33.00	A ASC	0.13	1.13 13	\$1.91
38-3E-33.03	A ASC	0.43	1.13 34	\$16.52
38-3E-33.04	A ASC	0.18	1.13 13	\$2.64
39-3E-03.00	N ASC	0.78	1.30 60	\$60.84
39-3E-03.00	N ASC	1.12	1.30 77	\$112.11
39-3E-03.00	N ASC	1.92	1.30 352	\$878.59
39-3E-17.00	A ASC	0.32	1.13 253	\$91.48
39-3E-17.00	A ASC	0.48	1.13 84	\$45.56
39-3E-17.00	A ASC	1.00	1.13 480	\$542.40
39-3E-21.00	A ASC	1.28	1.13 105	\$151.87
39-3E-21.00	A ASC	0.46	1.13 973	\$505.77
39-3E-29.00	A PRR	0.18	1.13 75	\$15.26
39-3E-32.00	A GRR	1.81	1.13 53	\$108.40
39-3E-32.00	A GRR	1.58	1.13 53	\$94.63
39-3E-32.00	A GRR	1.43	1.13 115	\$185.83
39-3E-32.00	A GRR	1.22	1.13 12	\$16.54
39-3E-32.00	A GRR	0.43	1.13 45	\$21.87
39-3E-05.03	A ASC	0.32	1.13 22	\$7.96
40-3E-03.00	A BST1	2.98	0.65 420	\$813.54
40-3E-03.00	A BST1	2.32	0.65 79	\$119.13
40-3E-03.00	A BST1	1.92	0.65 163	\$203.42
39-3E-27.05	A ASC	1.63	1.13 32	\$58.94
39-3E-27.05	A ASC	1.38	1.13 115	\$179.33
39-3E-27.05	A ASC	1.00	1.13 16	\$18.08

(2.1) Subtotal \$5871.63

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 and Segment	A Surf N Type	Maint Mi	Vol x Fee x C.Y.	Total = Maint
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(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 MBF =	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 C.Y. =	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		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/	A	RkWear		Vol	Total	Rkwear Vol		Total			
and Segment	N	Mi	x	Fee x MBF =	RkWear	Mi	x	Fee x C.Y.=	RkWear		
38-3E-32.03	A	0.28	0.00	134	\$0.00	0.00	0.00	0	\$0.00		
38-3E-32.05	A	0.27	0.00	5	\$0.00	0.00	0.00	0	\$0.00		
38-3E-33.02	A	0.54	0.00	34	\$0.00	0.00	0.00	0	\$0.00		
39-3E-09.02	N	0.45	0.00	77	\$0.00	0.00	0.00	0	\$0.00		
39-3E-09.03	N	0.50	0.00	352	\$0.00	0.00	0.00	0	\$0.00		
39-3E-09.05	N	0.89	0.00	60	\$0.00	0.00	0.00	0	\$0.00		
39-3E-09.06	N	0.16	0.00	77	\$0.00	0.00	0.00	0	\$0.00		
39-3E-17.02	A	0.20	0.00	168	\$0.00	0.00	0.00	0	\$0.00		
39-3E-17.03	A	0.47	0.00	180	\$0.00	0.00	0.00	0	\$0.00		
39-3E-28.00	A	0.32	0.00	79	\$0.00	0.00	0.00	0	\$0.00		
39-3E-28.02	A	0.16	0.00	79	\$0.00	0.00	0.00	0	\$0.00		
39-3E-21.03	A	0.30	0.00	160	\$0.00	0.00	0.00	0	\$0.00		
39-3E-21.02	N	1.26	0.00	260	\$0.00	0.00	0.00	0	\$0.00		
39-3E-17.04	A	0.55	0.00	480	\$0.00	0.00	0.00	0	\$0.00		

(7.1) Subtotal \$0.00 (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 stips. 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	1	\$335.00	0.59	\$197.65
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/:			\$214.00	0.59	\$0.00

(7.3A) Total \$516.84

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
5.80		292.45		\$1696.21

(7.3B) Total \$1696.21

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:	5.80		459.60	1	\$2665.68
Blade Ditch:	0.00		153.20	0	\$0.00

(7.3C) Total \$2665.68

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
17.88		5		3.6		11		1		39.6
Load & Haul-Roundtrip =				2.0		6		1		12.0
Fixed Hours (3000 Gal. tanker)										
										Total Hours = 51.6

Truck Cost: \$82.33/Hr. x 51.6 Hours = \$4248.23

(7.3E) Total \$4248.23

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 0.00 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 0.00 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.

UNITED STATES  
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**Summary of All Roads and Projects**

T.S. Update 04/15/10

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

Prepared by: Josh R Ph: 2258 Print Date: 7/28/2011 11:31:32 AM

Construction: 60.90 sta (Surfaced 0.00 sta Natural 60.90 sta)

Improve: 0.00 sta Renov: 246.04 sta Decom: 115.62 sta Temp: 0.00 sta

200 Clearing and Grubbing: 6.3 acres .....	\$9,120.90
Clearing: 60.9 sta      Grubbing: 3.2 acres	
Slash Treatment: 6.3 acres	
300 Excavation: 1,771 cy .....	\$7,893.58
Haul: 7,449 sta-yds	
400 Drainage: .....	\$3,471.84
Culvert: 96 lf      wt = 1,440 lbs      factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$3,483.79
Blading 3.93 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 6.4 acres .....	\$2,635.07
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
2200 Surface Treatment: 0.0 tons .....	\$0.00
2300 Engineering: 60.90 sta. ....	\$1,412.27
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$11,652.90
Mobilization: Const. \$2,851.00    Surf. \$0.00.....	\$2,851.00
Quarry Development: .....	\$0.00

Total: 3,234 mbf @ \$13.15/mbf = \$42,521.35

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

File D:\JRobeson\2011\TSales\Cottonwood\Cottonwood.mdb

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 38-3E-32.03** Road Name:

Road Renovation: 0.30 mi 14 ft Subgrade 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: .....	\$68.94
Blading 0.15 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$200.00
Mobilization: Const. \$19.33 Surf. \$0.00.....	\$19.33
Quarry Development: .....	\$0.00
Total:	\$288.27

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 38-3E-33.02** Road Name:

Road Renovation: 0.40 mi 14 ft Subgrade 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: .....	\$91.92
Blading 0.20 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$200.00
Mobilization: Const. \$20.98 Surf. \$0.00.....	\$20.98
Quarry Development: .....	\$0.00
Total:	\$312.90

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-17.02** Road Name:

Road Renovation: 0.20 mi 14 ft Subgrade 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: .....	\$45.96
Blading 0.10 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$200.00
Mobilization: Const. \$17.68 Surf. \$0.00.....	\$17.68
Quarry Development: .....	\$0.00
Total:	\$263.64

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-17.03** Road Name:

Road Renovation: 0.47 mi 14 ft Subgrade 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: .....	\$110.30
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: 0.0 acres .....	\$0.00
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: .....	\$200.00
Mobilization: Const. \$22.30 Surf. \$0.00.....	\$22.30
Quarry Development: .....	\$0.00
Total:	\$332.60

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-17.04** Road Name:

Road Construction: 1.15 mi 15 ft Subgrade 3 ft ditch T.S. Update 04/15/10

200 Clearing and Grubbing: 6.3 acres .....	\$9,120.90
Clearing:60.9 sta    Grubbing:3.2 acres	
Slash Treatment:6.3 acres	
300 Excavation: 1,771 cy .....	\$7,893.58
Haul: 7,449 sta-yds	
400 Drainage: .....	\$3,201.84
Culvert: 96 lf    wt = 1,440 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$0.00
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.2 acres .....	\$503.88
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
2200 Surface Treatment: 0.0 tons .....	\$0.00
2300 Engineering: 60.90 sta. ....	\$1,412.27
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,437.28
Mobilization: Const. \$1,693.89 Surf. \$0.00.....	\$1,693.89
Quarry Development: .....	\$0.00
Total:	\$25,263.65

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-21.02** Road Name:

Road Renovation: 1.30 mi 16 ft Subgrade 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: .....	\$597.48
Blading 1.30 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$1,437.28
Mobilization: Const. \$146.23 Surf. \$0.00.....	\$146.23
Quarry Development: .....	\$0.00
Total:	\$2,180.99

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-21.03** Road Name:

Road Renovation: 0.53 mi 14 ft Subgrade 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: .....	\$119.50
Blading 0.26 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: 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. \$8.59 Surf. \$0.00.....	\$8.59
Quarry Development: .....	\$0.00
Total:	\$128.08

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-28.00** Road Name:

Road Renovation: 0.53 mi 14 ft Subgrade 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: .....	\$119.50
Blading 0.26 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$200.00
Mobilization: Const. \$22.96 Surf. \$0.00.....	\$22.96
Quarry Development: .....	\$0.00
Total:	\$342.46

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-28.02** Road Name:

Road Renovation: 0.53 mi 14 ft Subgrade 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: .....	\$243.59
Blading 0.53 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: 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. \$17.51 Surf. \$0.00.....	\$17.51
Quarry Development: .....	\$0.00
Total:	\$261.09

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-5.04** Road Name:

Road Decommission: 0.64 mi 14 ft Subgrade 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: .....	\$490.25
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.2 acres .....	\$483.23
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
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: .....	\$1,855.92
Mobilization: Const. \$203.34 Surf. \$0.00.....	\$203.34
Quarry Development: .....	\$0.00
Total:	\$3,032.74

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.



# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-5.05** Road Name:

Road Decommission: 0.18 mi 14 ft Subgrade 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: .....	\$137.88
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.3 acres .....	\$516.28
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
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: .....	\$927.96
Mobilization: Const. \$113.70 Surf. \$0.00.....	\$113.70
Quarry Development: .....	\$0.00
Total:	\$1,695.82

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-9.02** Road Name:

Road Renovation: 0.40 mi 14 ft Subgrade 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: .....	\$91.92
Blading 0.20 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: 0.0 tons .....	\$0.00
2300 Engineering: 0.00 sta. ....	\$0.00
2400 Minor Concrete: .....	\$0.00
2500 Gabions: .....	\$0.00
8000 Miscellaneous: .....	\$200.00
Mobilization: Const. \$20.98 Surf. \$0.00.....	\$20.98
Quarry Development: .....	\$0.00
Total:	\$312.90

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-9.05** Road Name:

Road Decommission: 0.89 mi 14 ft Subgrade 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: .....	\$270.00
Culvert: 0 lf    wt = 0 lbs    factor = 1.2	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation: .....	\$888.57
Blading 0.45 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.4 acres .....	\$582.36
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
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: .....	\$4,021.16
Mobilization: Const. \$414.11 Surf. \$0.00.....	\$414.11
Quarry Development: .....	\$0.00
	Total: \$6,176.19

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Cottonwood TS Sale Date: 9-15-2011

**Road Number: 39-3E-9.06** Road Name:

Road Decommission: 0.48 mi 14 ft Subgrade 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: .....	\$477.99
Blading 0.24 mi	
Surfacing: .....	\$0.00
1300 Geotextiles: .....	\$0.00
1400 Slope Protection: .....	\$0.00
1800 Soil Stabilization: 1.3 acres .....	\$549.32
Includes Small Quantity Factor of 1.22	
1900 Cattleguards: .....	\$0.00
2100 RoadSide Brushing: 0.0 acres .....	\$0.00
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: .....	\$773.30
Mobilization: Const. \$129.40 Surf. \$0.00.....	\$129.40
Quarry Development: .....	\$0.00
	Total: \$1,930.01

## Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

# EXHIBIT C-1 SHEET 1 OF 1

## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT COTTONWOOD TIMBER SALE TRACT NO. 11-20

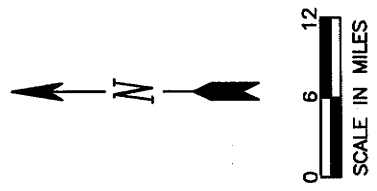
Exhibit No.	Description
C1	TITLE SHEET
C2	ROAD LOCATION MAP
C3	ESTIMATE OF QUANTITIES
C4	SPECIFICATION SHEET
C5	ROADS WORKLIST
C6	CULVERT INSTALLATION DETAILS
C7	CULVERT BAND DETAILS
C8	CULVERT LIST
C9	DRAINAGE AND EROSION CONTROL
C10	PLAN AND PROFILE SHEETS
C11	TYPICAL SLOPE STAKING
C12	CONSTRUCTION SPECIFICATIONS
D1	ROAD MAINTENANCE SPECIFICATIONS
D2	ROAD MAINTENANCE MAP

ALWAYS  
THINK  
SAFETY

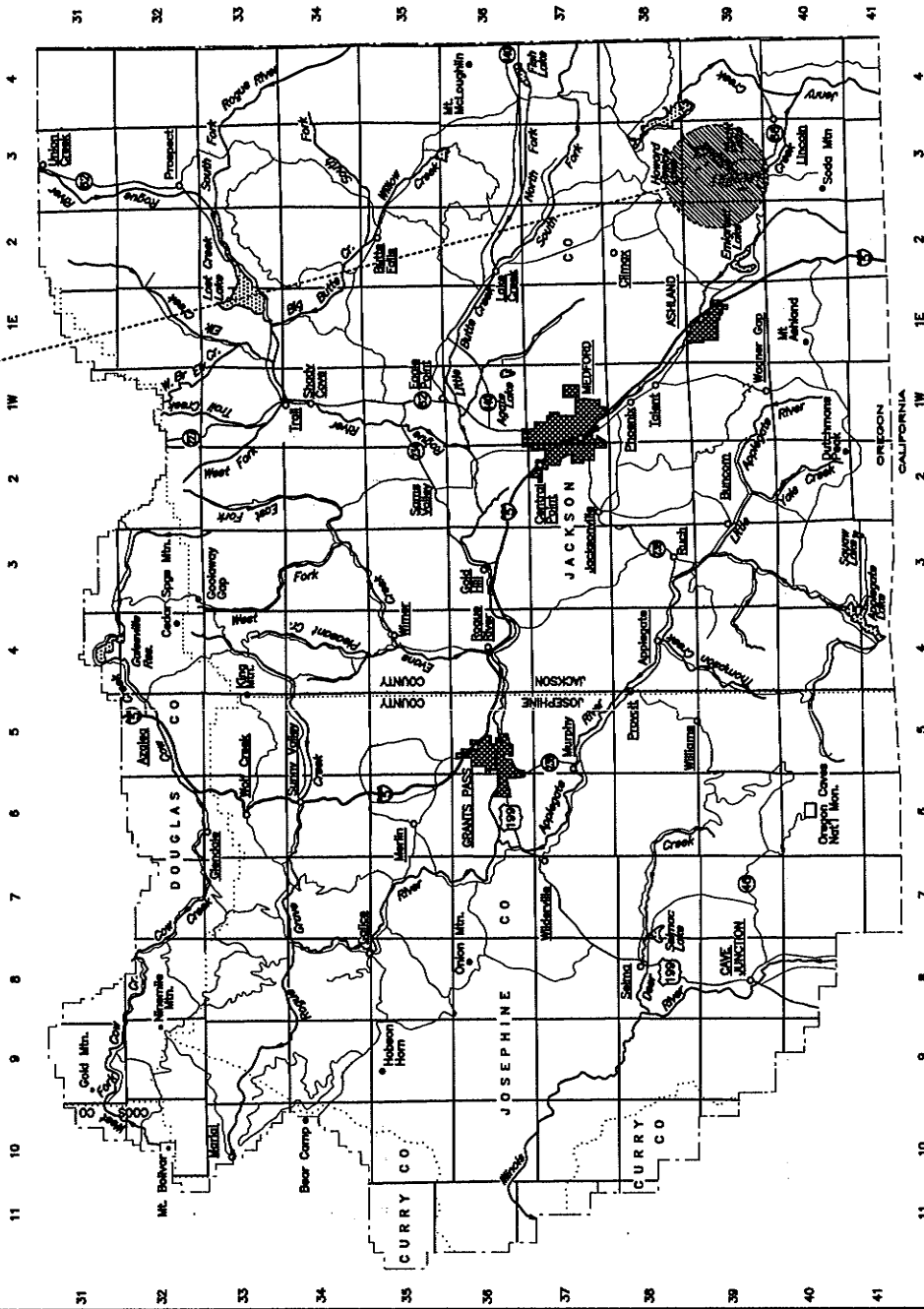
REV.	NO.	DESCRIPTION	DATE	APPROV.
		UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		

### TITLE SHEET

DESIGNED	<i>John R. Peltzer</i>
REVIEWED	<i>John R. Peltzer</i>
APPROVED	<i>John R. Peltzer</i>
DRAWN BY	JWR
DATE	July 2011
SCALE	AS SHOWN
SHEET	1 OF 1
DRAWING NO.	OR-11-9113.4-1



### PROJECT LOCATION



COTTONWOOD TIMBER SALE  
ROAD LOCATION MAP  
EXHIBIT C-2; PAGE 1 OF 1

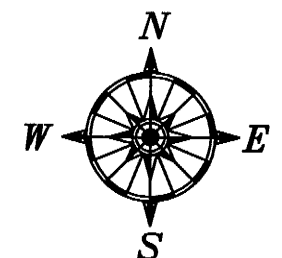
T.38S.

T.39S.

U.S.D.I. BLM MEDFORD DISTRICT

T.38S., R.2E. WILL. MER.  
T.38S., R.3E. WILL. MER.  
T.39S., R.2E. WILL. MER.  
T.39S., R.3E. WILL. MER.

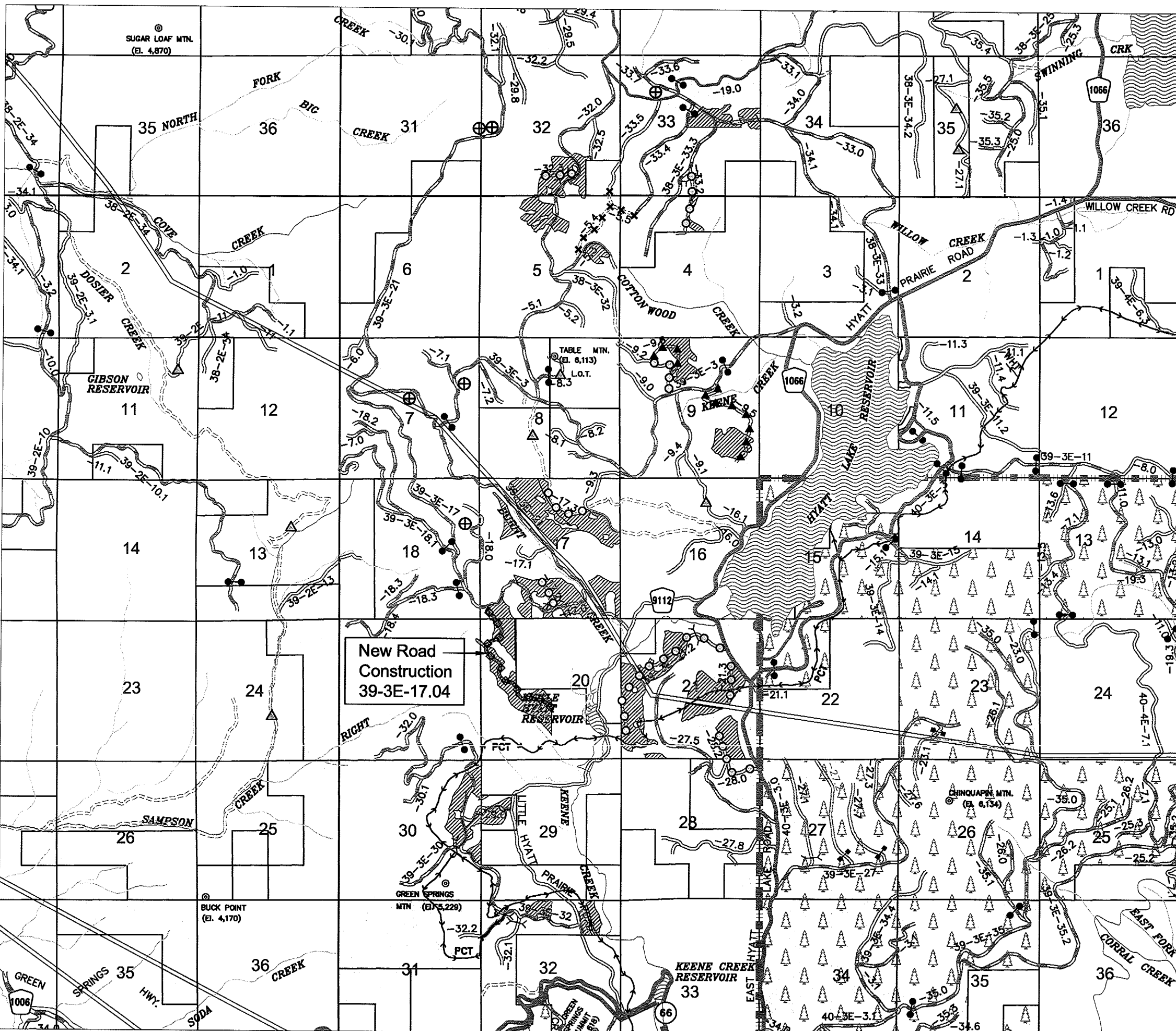
- EXISTING GATE
- EXISTING BARRICADE
- ⊕ PUMP CHANCE
- ROAD PROJECTS
- EXISTING ROAD
- EXISTING PAVED ROAD
- - - EXISTING PRIMITIVE ROAD
- ○ ROAD TO BE BLADED
- ▲ ▲ ROAD TO BE BLADED AND DECOMMISSIONED UPON COMPLETION OF LOG HAUL
- ✕ ✕ ROAD TO BE DECOMMISSIONED
- ROAD TO BE CONSTRUCTED
- BLM LAND
- ▨ TS UNITS
- △ △ CASCADE-SISKIYOU NATIONAL MONUMENT



0 1/2 1  
SCALE IN MILES

R.2E.

R.3E.



[illegible]

**ALWAYS  
THINK  
SAFETY**

## ESTIMATE OF QUANTITIES\*

**\*\* Indicate gradation.**

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

REV. NO.		DATE		APPROV.
U. S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT MEDFORD, OREGON				
ESTIMATE OF QUANTITIES*				
DESIGNED	<i>John W. Ward</i>			
REVIEWED	<i>W. H. Ward</i>			
APPROVED	<i>W. H. Ward</i>			
DRAWN: <i>W. H. Ward</i>	SCALE NONE		SHEET 1 OF 1	
DATE July 1911	DRAWING NO.		OR-11-9113.4-2	





## COTTONWOOD TIMBER SALE

### Roads Worklist

Described work shall be performed on the road prior to its use. The work includes, but not limited to, spot blading the road surface, construction of water bars, removing and replacing barricades, road realignment, placement of washed rock, and road decommissioning. All road work shall be inspected and work performed to the design standards shown on the plans.

Decommission: As staked and directed by the Authorized Officer, this work includes, but not limited to, blocking or barricading with a log-earth berm or similar device to exclude motorized vehicle use and removal of fills in stream channels and unstable fill areas. Scarifying the road surface to expose soil, removal of drainage structures, and constructing water bars. Treat exposed soil with seed and mulch as described in Exhibit C-12, Section 1800. Items or debris not designed as salvage for the Government shall become the property of the purchaser and be moved from the site and disposed in accordance with state and federal regulations.

Road barricades removed during timber operations shall be replaced immediately after use. For activities that are not finished in one dry season, barricades shall be re-installed before the wet season, October 15<sup>th</sup>.

NAT – Natural Surface  
AWD – Armored Water Dip

CMP – Corrugated Metal Pipe  
Jct.– Junction

#### Road 38-3E-32.03

NAT

<u>MP</u>	<u>Remarks</u>
0.00	Junction with 38-3E-32.00 Road MP 1.10. Begin Spot Blading.
0.01	Remove Existing Barricade. Replace barricade upon completion of log haul.
0.30	End Blading.

#### Road 38-3E-33.02

NAT

<u>MP</u>	<u>Remarks</u>
0.00	Junction with 38-3E-33.03 Road MP 0.41. Begin Spot Blading.
0.01	Remove Existing Barricade. Replace barricade upon completion of log haul.
0.40	End Blading.

**Road 39-3E-09.02**  
NAT

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Junction with 39-3E-3.00 Road MP 1.10. Begin Spot Blading.
0.01	Construct Rock barricade upon completion of log haul as staked and directed by the Authorized Officer.
0.18	Junction with 39-3E-9.06.
0.40	End Blading.

**Road 39-3E-09.05**  
NAT

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Junction with 39-3E-3.00 Road MP 0.78. Shape road approach. Import 50 cy of fill material for additional road width at the approach and road leveling around boulders. Contact Power Company about underground powerline that will need to be crossed. Begin Spot Blading.
0.18	Realign approach to stream ford to provide 50 foot radius in curve. Place 10 cy washed pit run rock in stream ford.
0.89	End Blading. Upon completion of log haul the road shall be decommissioned.

**Road 39-3E-09.06**  
NAT

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Junction with 39-3E-9.02 Road MP 0.18. Begin Spot Blading.
0.48	Junction with 39-3E-9.02 Road MP 0.40. End Blading. Upon completion of log haul the road shall be decommissioned.

**Road 39-3E-17.02**  
NAT

<b><u>MP</u></b>	<b><u>Remarks</u></b>
0.00	Junction with 39-3E-17.00. Road MP 0.30. Begin Spot Blading.
0.01	Remove Existing Barricade. Replace barricade upon completion of log haul.
0.20	End Blading.

**Road 39-3E-17.03**

NAT

**MP**

**Remarks**

0.00

Junction with 39-3E-9.03. Road MP 0.50. Begin Spot Blading.

0.47

End Blading.

**Road 39-3E-21.02**

NAT

**MP**

**Remarks**

0.00

Junction with Hyatt Prairie Road.

0.25

Remove Existing Barricade. Replace barricade upon completion of log haul.  
Begin Spot Blading and removing saplings that are in travel way.

1.30

End Blading.

Upon completion of log haul, water bars shall be constructed as staked and directed by the Authorized Officer.

**Road 39-3E-21.03**

NAT

**MP**

**Remarks**

0.00

Junction with Hyatt Prairie Road. Begin Spot Blading.

0.30

End Blading.

**Road 39-3E-28.00**

NAT

**MP**

**Remarks**

0.00

Junction with 40-3E-3.00. Road MP 2.32. Begin Spot Blading.

0.53

End Blading.

Install barricade upon completion of log haul as staked and directed by the Authorized Officer.

**Road 39-3E-28.02**

NAT

**MP**

**Remarks**

0.00

Junction with 39-3E-28.00. Road MP 0.32. Begin Spot Blading and removing saplings that are in travel way.

0.53

End Blading.

**39-3E-5.04**

NAT

**MP**

**Remarks**

0.00

Junction with 39-3E-5.05 Road MP 0.14

Road shall be decommissioned. Construct Rock barricade as staked and directed by the Authorized Officer.

0.48

Junction with Spur B

0.64

Junction with 38-3E-33.05 Road MP 0.50. Construct Rock barricade as staked and directed by the Authorized Officer.

End of Project

**39-3E-5.05**

NAT

**MP**

**Remarks**

0.00

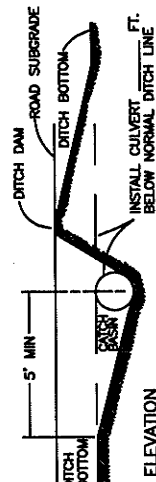
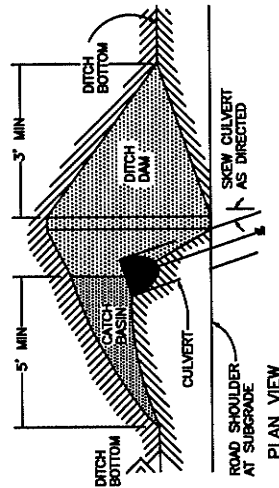
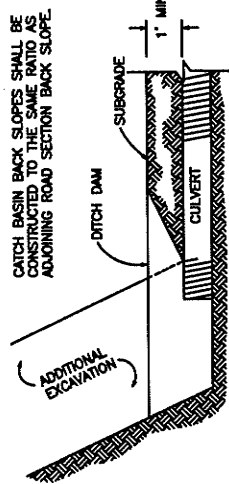
Junction with 38-3E-33.04 Road MP 1.00

Road shall be decommissioned. Construct Rock barricade as staked and directed by the Authorized Officer.

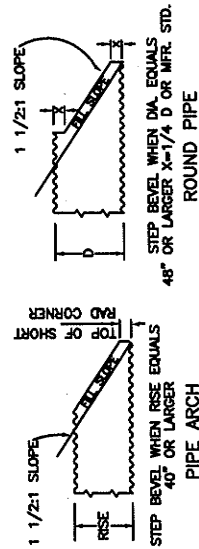
0.18

Junction with Spur A.

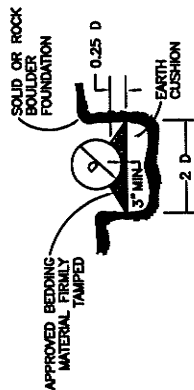
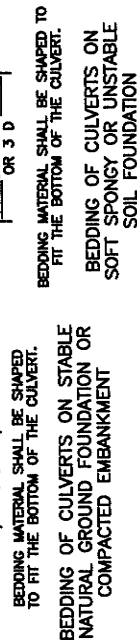
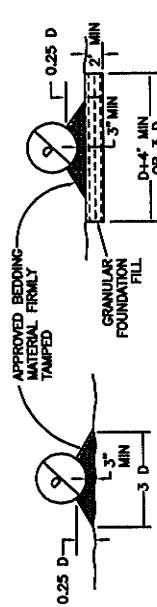
End of Project



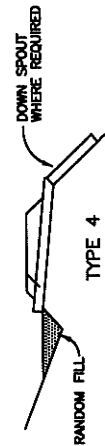
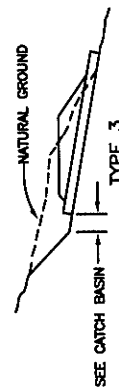
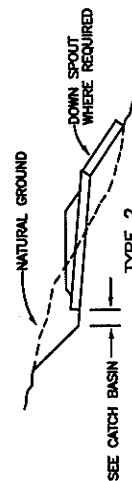
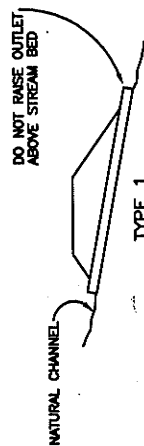
## CATCH BASIN



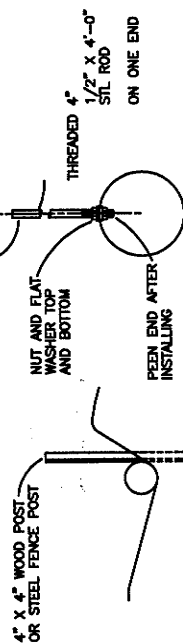
BEVELED END DETAIL



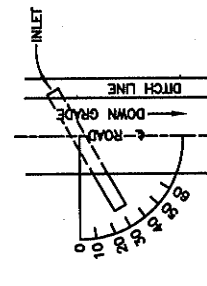
## BEDDING OF CULVERTS



## CULVERT INSTALLATION TYPES



## CULVERT MARKER INSTALLATION



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

## SKEW DIAGRAM

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

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BUREAU OF LAND MANAGEMENT  
MEDFORD DISTRICT - MEDFORD, OREGON

## CULVERT INSTALLATION DETAILS

DESIGNED

**DESIGNED  
REVIEWED**

**APPROVED**

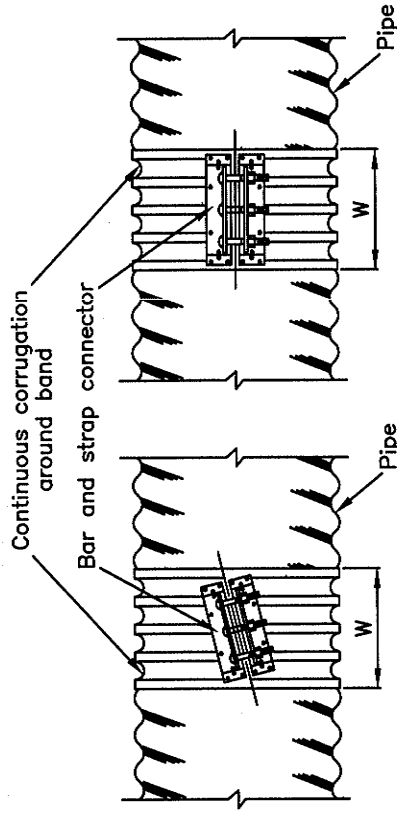
**DRAWN** J

DATE \_\_\_\_\_ Ju \_\_\_\_\_

**DRAWING NO.**

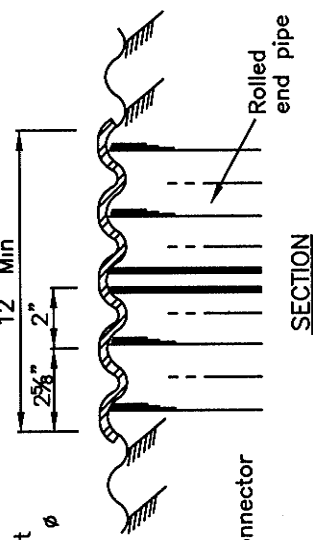
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FULL CORRUGATED BAND



HELICAL COUPLING

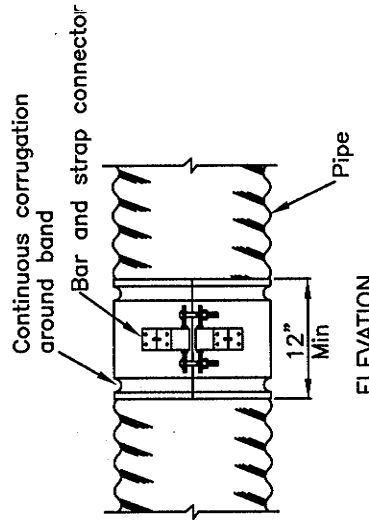
ANNULAR COUPLING



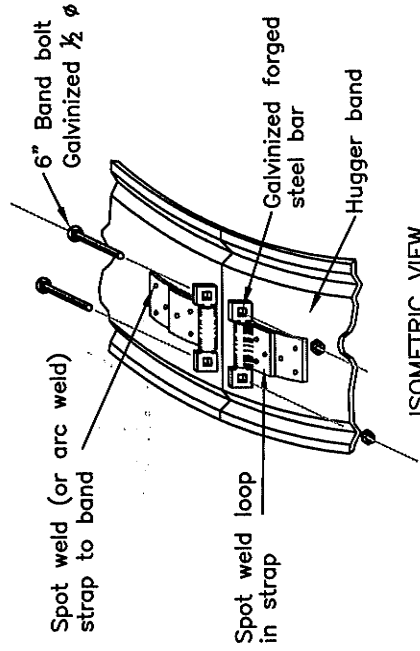
SECTION

2 5/8" CORRUGATIONS				3"x1" CORRUGATIONS			
PIPE DIAMETER (in)	W(in)	# of 1/2" HEL. Bolts	# of 1/2" HEL. Bolts	PIPE DIAMETER (in)	W(in)	# of 1/2" HEL. Bolts	# of 1/2" HEL. Bolts
6-10	7	7	2	36-84	14	14	3
12-15	7	12	2-3	36-120	28	28	5
18-84	12	12	3				
24-84	24	24	5				

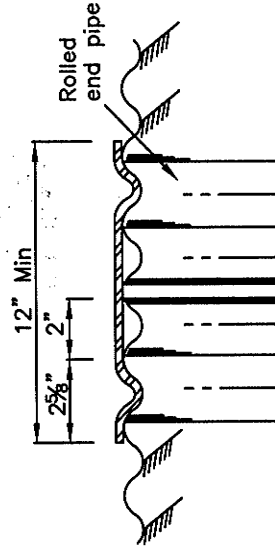
"HUGGER" BAND



ELEVATION



ISOMETRIC VIEW



SECTION

Standard construction is 1 piece 12" thru 48" and 2 piece 54" and above.

The hugger coupler band or an approved equivalent coupler band shall be made of the same material and finish as the pipes joined. The coupler bands shall have a minimum width of 12 inches and may be two numerical thicknesses lighter than the gage or thickness designated for the conduit joined. The band shall be designed to be drawn together with two 1/2 inch bolts through use of a bar and strap suitably welded to the band. The band shall engage and mesh with the second annular corrugation inward from the end of each of the conduit sections joined.

Annular corrugated couplers for pipe shall cover at least two outside crest corrugations on each re-corrugated end.

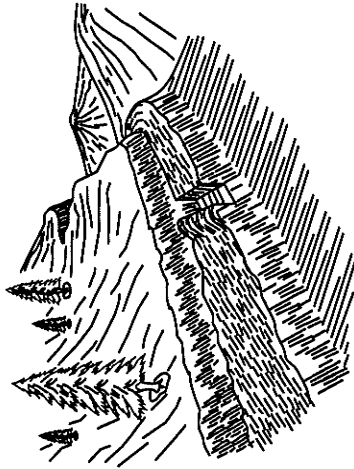
REV.	NO.	DESCRIPTION	DATE	APPROV.

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

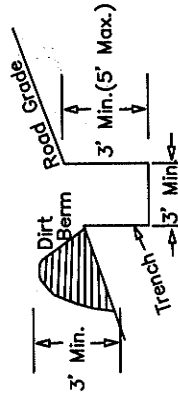
**CULVERT BAND  
DETAIL**

DESIGNED John Nelson  
REVIEWED John Nelson  
APPROVED John Nelson  
DRAWN JMR SCALE NONE  
DATE July 2011 SHEET 1 OF 1  
DRAWING NO. OR-117-TS06-26-C5

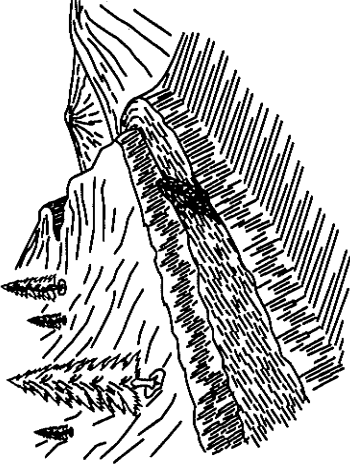
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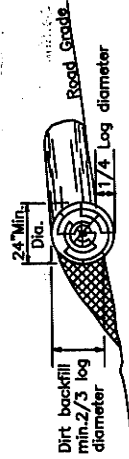
TRENCH BARRICADE



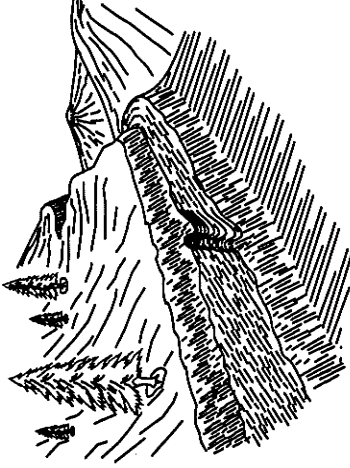
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.



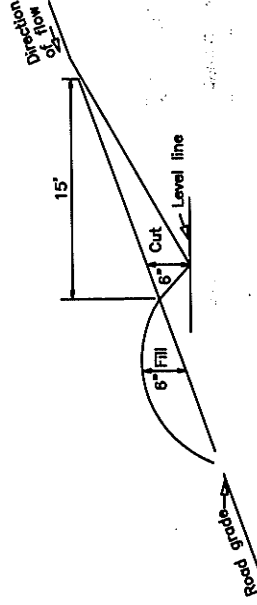
LOG BARRICADE



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".

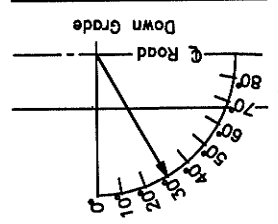


WATER BAR



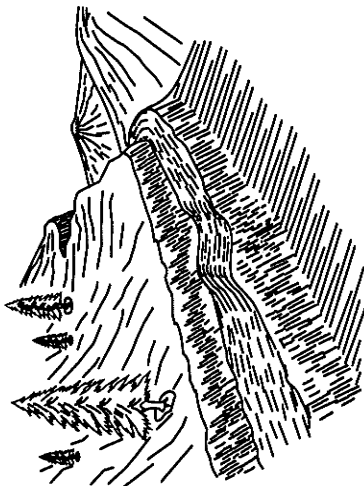
1. CROSS-DRAINS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL CROSS DRAINS SHALL BE SKEWED 30 DEGREES.
4. THE CROSS-DRAINS INVERT SHALL BE SMOOTH AND FREE DRAINING.

SKEW DIAGRAM

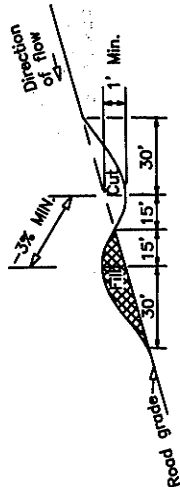


REV.	NO.	DESCRIPTION	DATE	APPROV.
		UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
<b>DRAINAGE &amp; EROSION CONTROL INSTALLATION</b>				
DESIGNED		<i>John M. [Signature]</i>		
REVIEWED		<i>John M. [Signature]</i>		
APPROVED		<i>John M. [Signature]</i>		
DRAWN	DCM	SCALE	NONE	
DATE	JULY 2011	SHEET	1 OF 2	
DRAWING NO.	OR-11-9113.4-8			



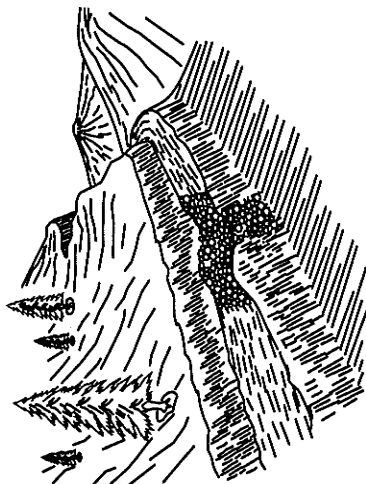


WATER DIP

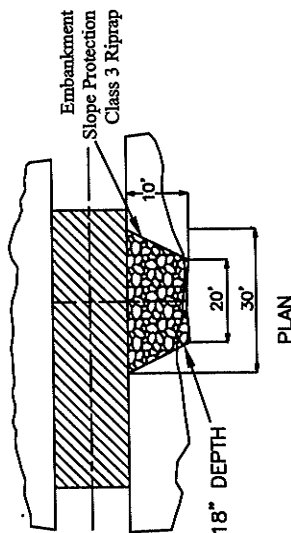
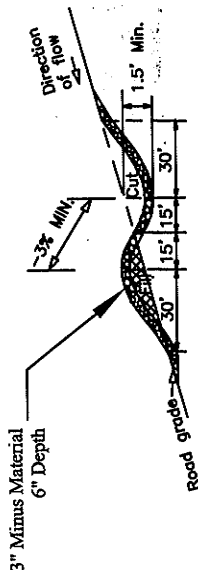


1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY HIGH CLEARANCE TYPE VEHICLES.

REV. NO.	DESCRIPTION	DATE	APPROV.
	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		
<b>DRAINAGE &amp; EROSION CONTROL INSTALLATION</b>			
DESIGNED	BLM		
REVIEWED	JWR		
APPROVED	<i>[Signature]</i>		
DRAWN	DCM	SCALE	NONE
DATE	JULY 2011	SHEET	2 OF 2
DRAWING NO.	OR-11-91134-8		



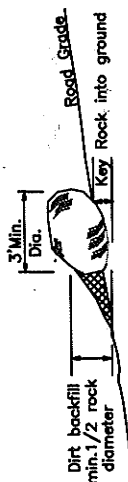
ARMORED WATER DIP



1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY HIGH CLEARANCE TYPE VEHICLES.
5. MATERIAL SOURCE FOR CLASS 3 RIPRAP AND 3" MINUS CRUSHED SHALL BE FROM A COMMERCIAL SOURCE.
6. ALL ARMORED WATER DIPS SHALL BE ROCKED THE ENTIRE WIDTH & LENGTH TO A MINIMUM DEPTH OF 8".

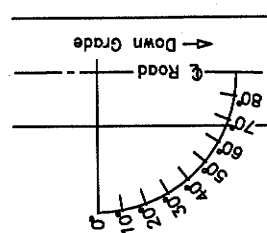


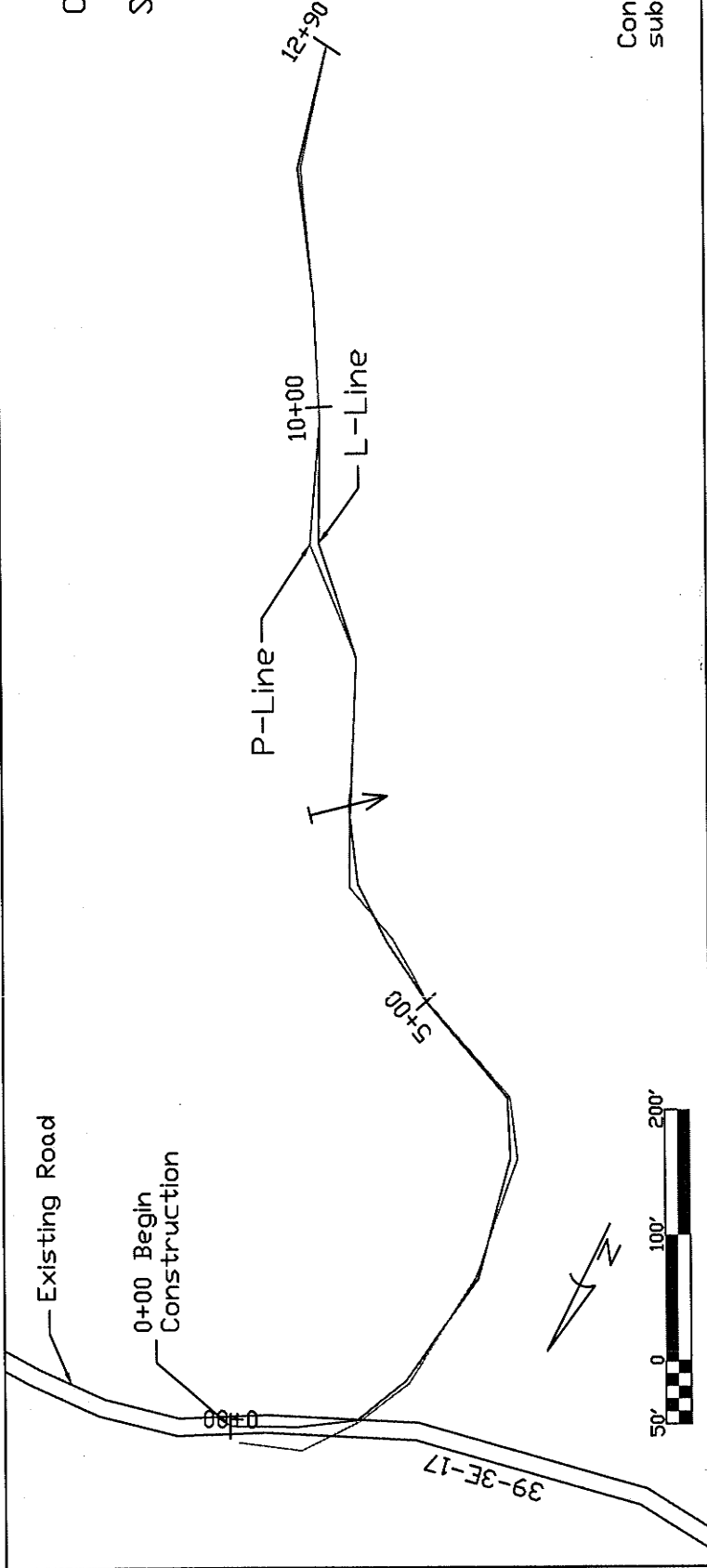
ROCK BARRICADE



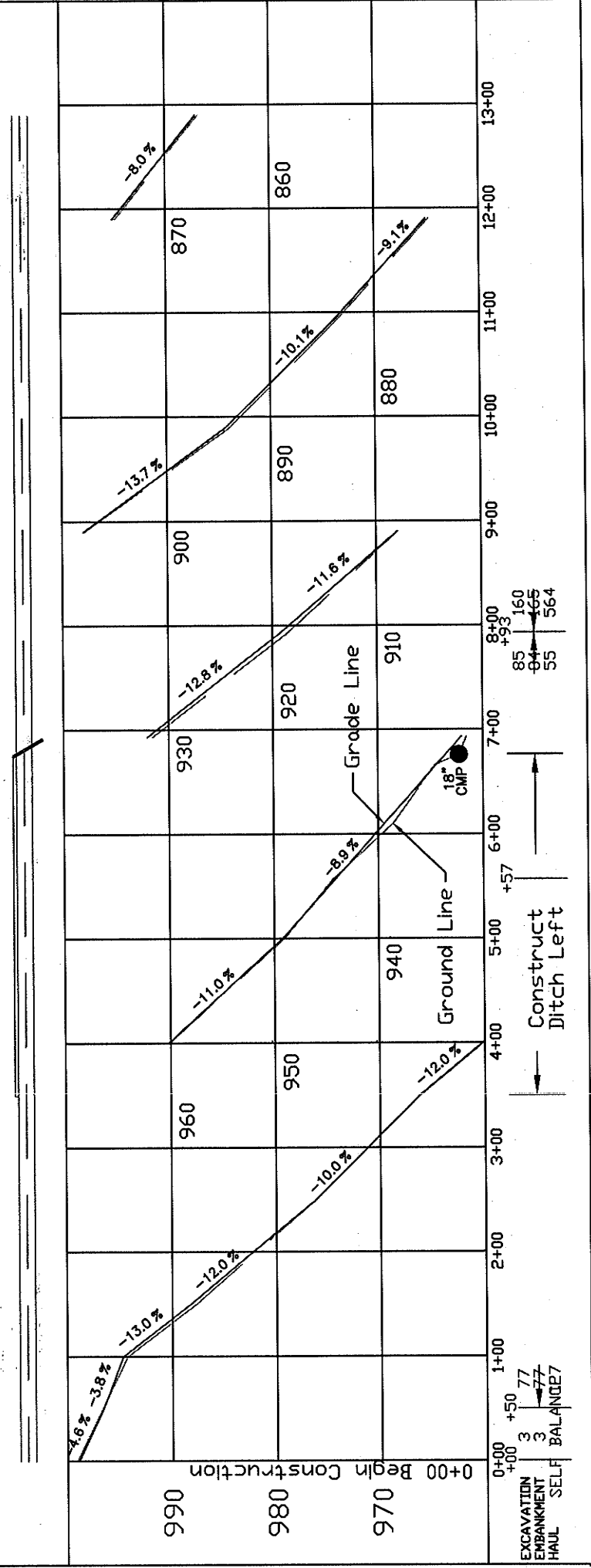
1. ROCK BARRICADE SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. THE LENGTH SHALL BE SUFFICIENT TO BLOCK ROAD FROM VEHICLE USE.
4. THE MINIMUM DIAMETER OF ROCK SHALL BE 3 FEET.
5. THE MAXIMUM SPACE BETWEEN ROCKS SHALL BE 36" OR AS APPROVED BY THE AUTHORIZED OFFICER.

SKEW DIAGRAM



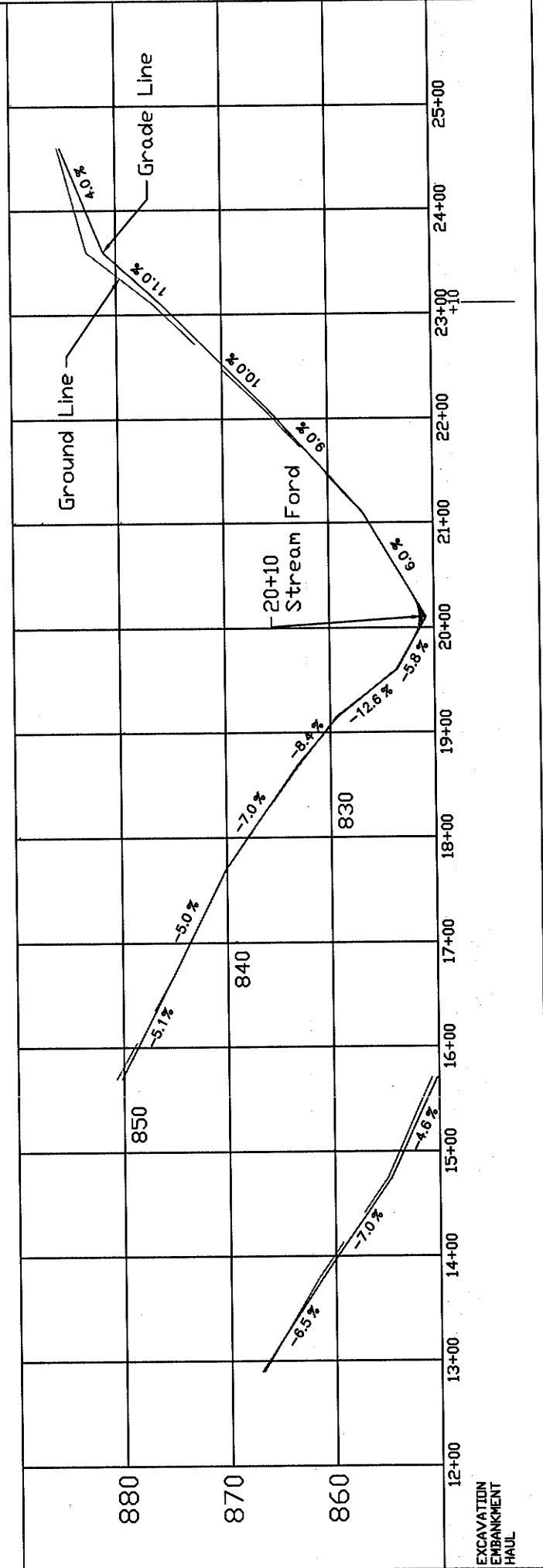
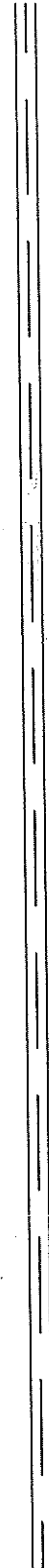
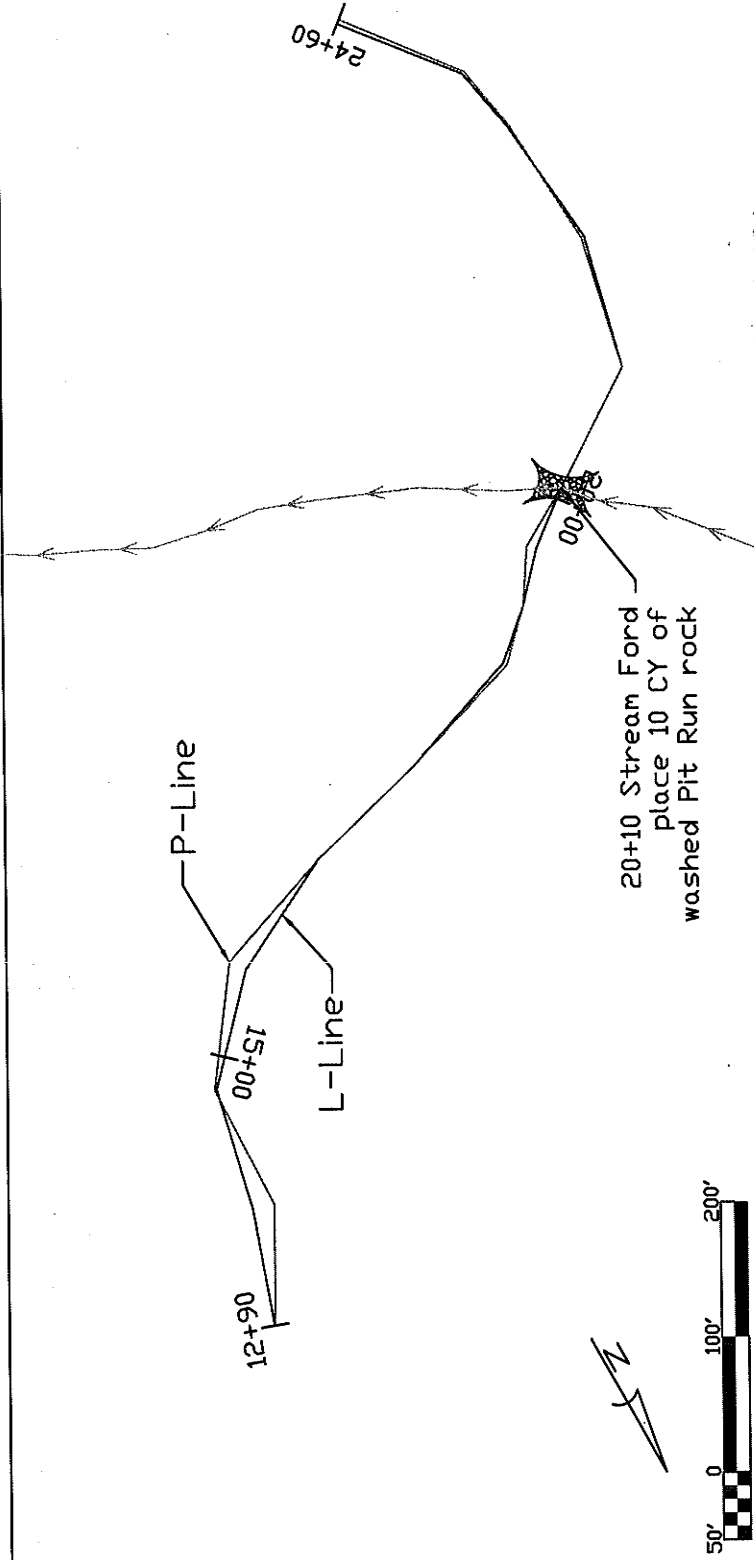


Construct 15' outsloped  
 subgrade, no ditch.



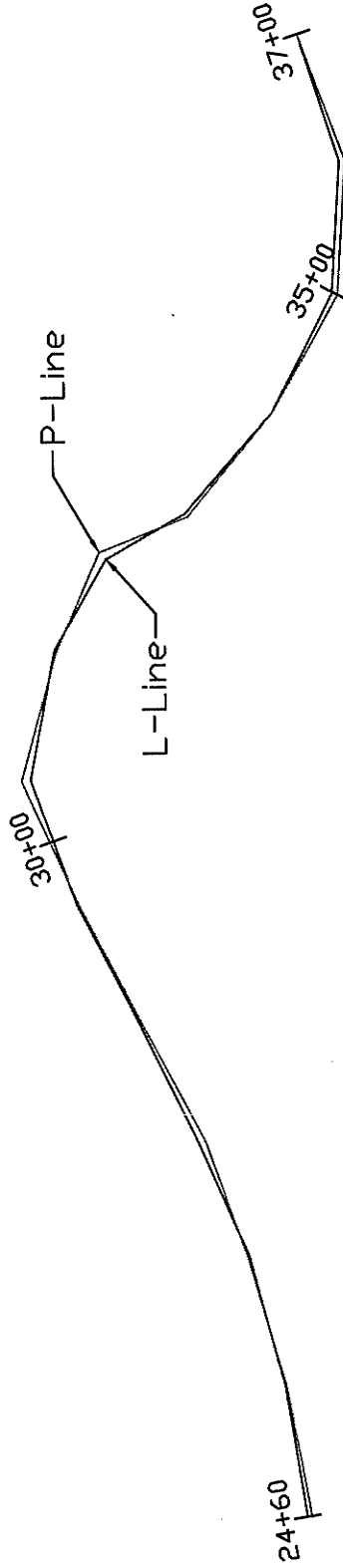
# Exhibit C-10

Cottonwood T.S.  
39-3E-17.04  
Sheet 2 of 5

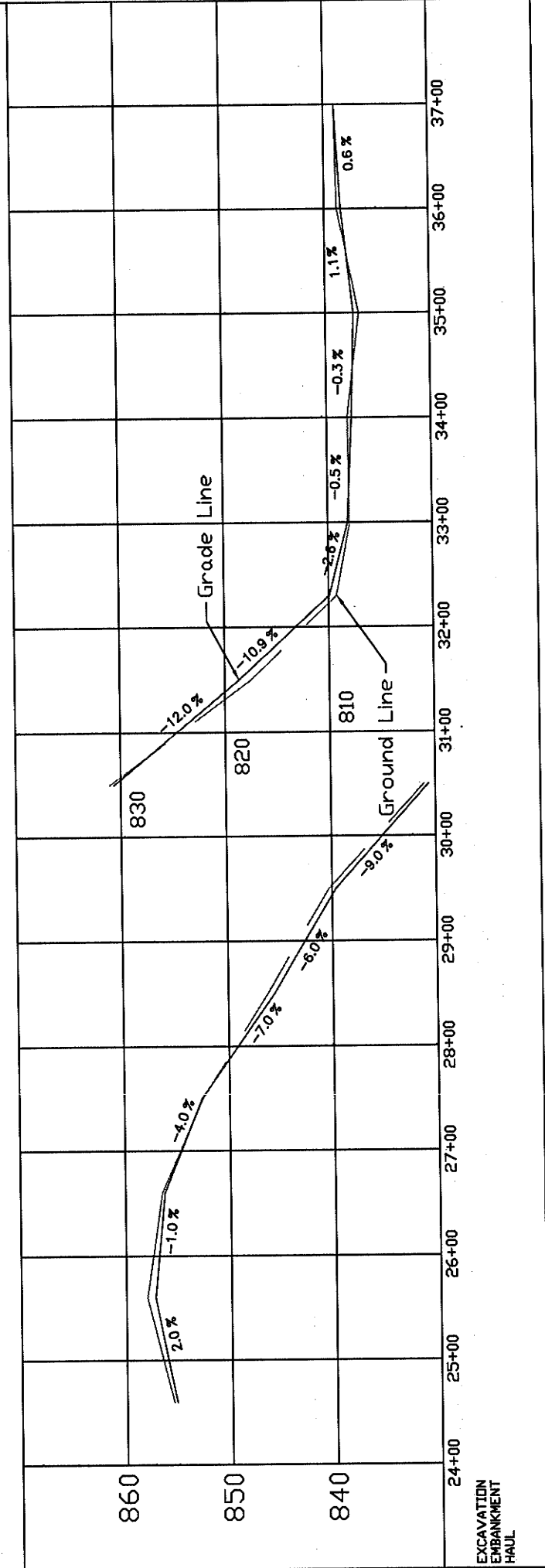
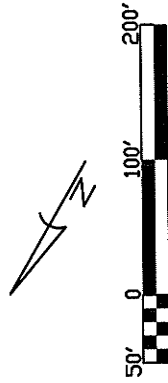


# Exhibit C-10

Cottonwood T.S.  
39-3E-17.04  
Sheet 3 of 5



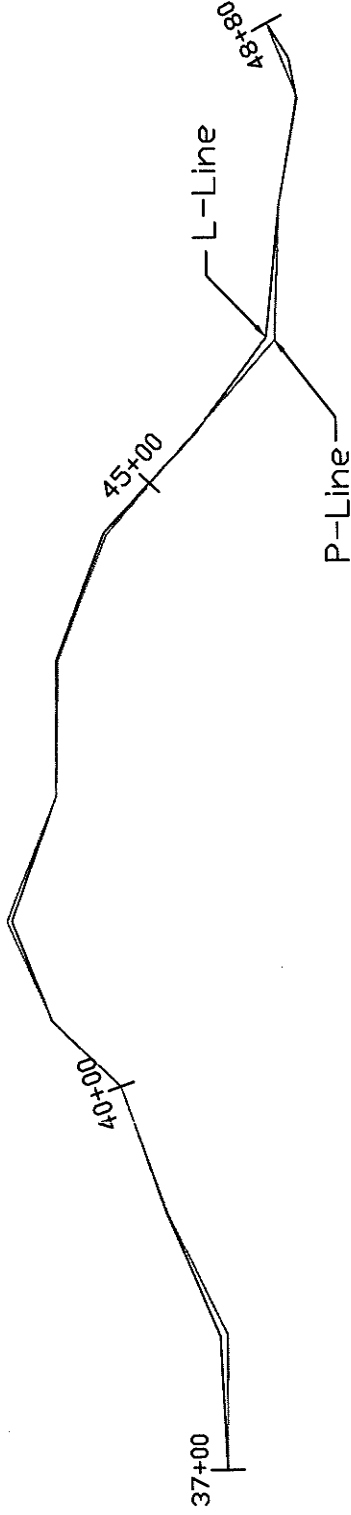
Construct 15' outsloped  
subgrade, no ditch.



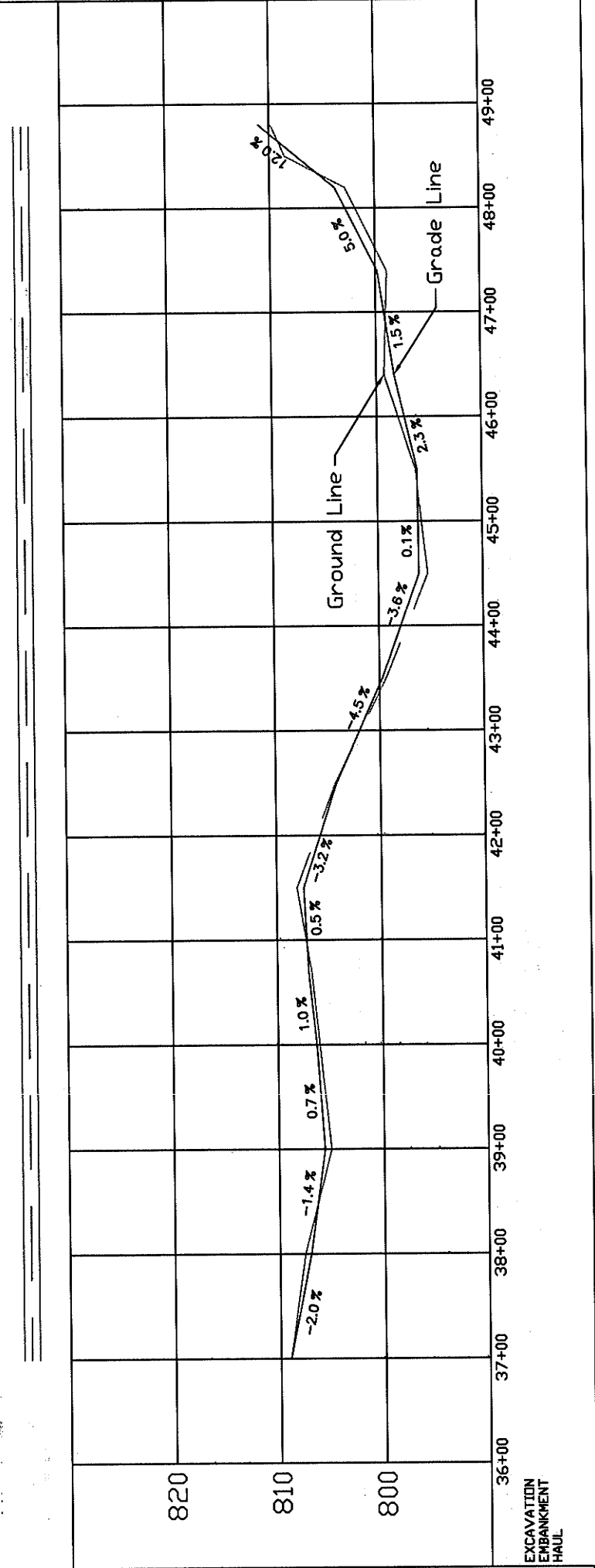
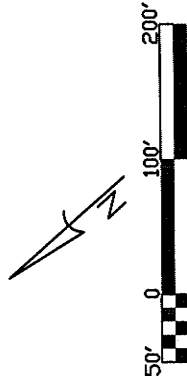
EXCAVATION  
EMBANKMENT  
HAUL

# Exhibit C-10

Cottonwood T.S.  
39-3E-17.04  
Sheet 4 of 5



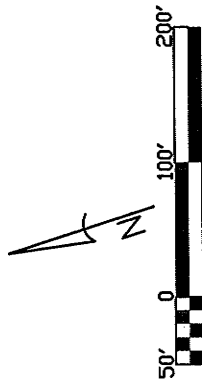
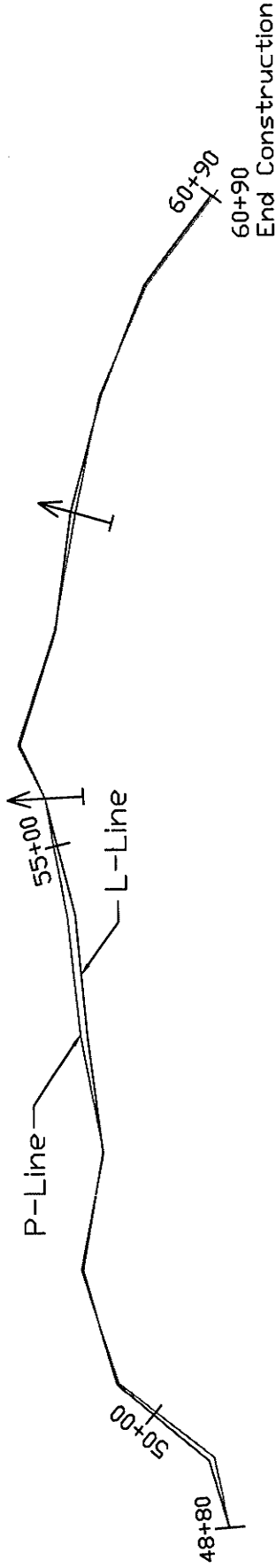
Construct 15' outsloped  
subgrade, no ditch.



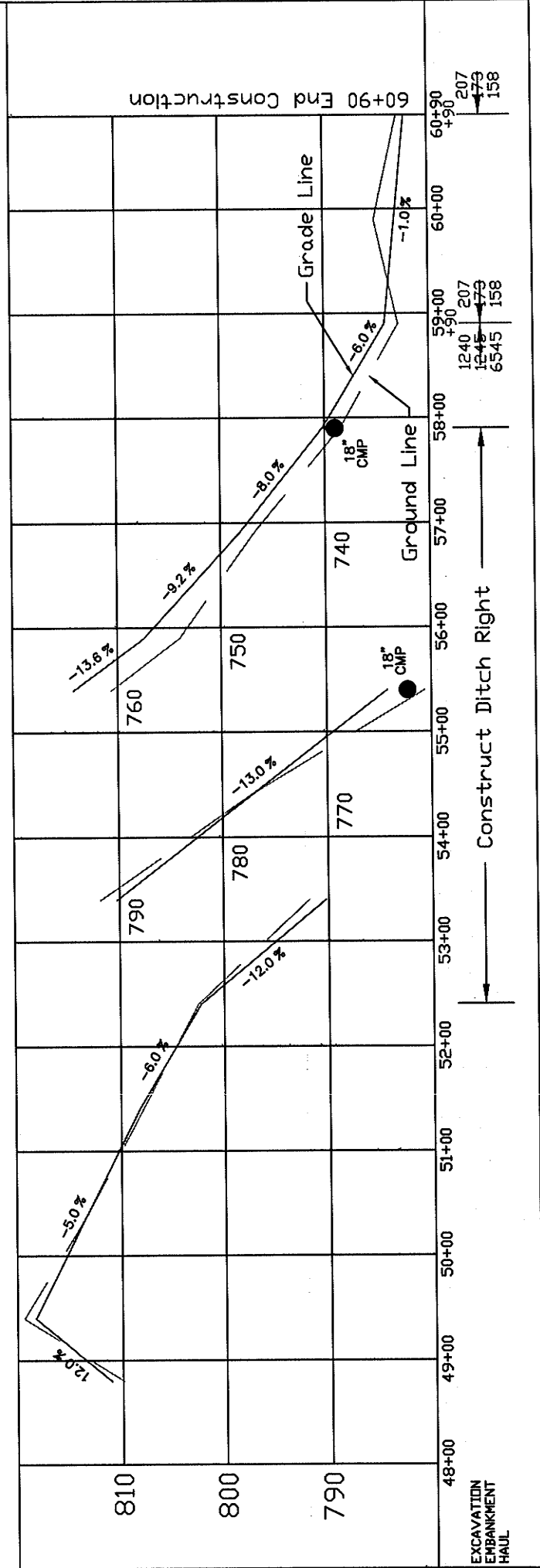
EXCAVATION  
EMBANKMENT  
HAUL

# Exhibit C-10

Cottonwood T.S.  
39-3E-17.04  
Sheet 5 of 5

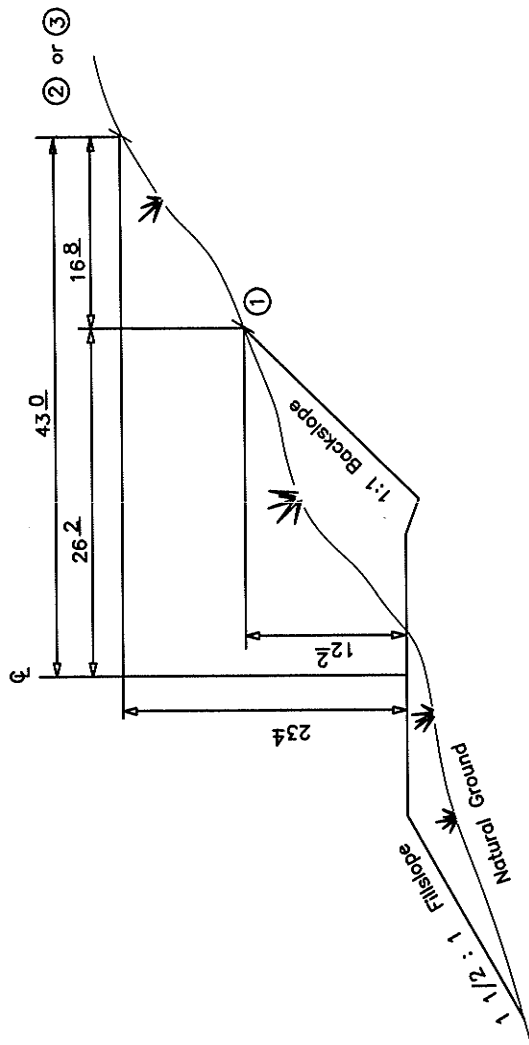


Construct 15' outsloped  
subgrade, no ditch.

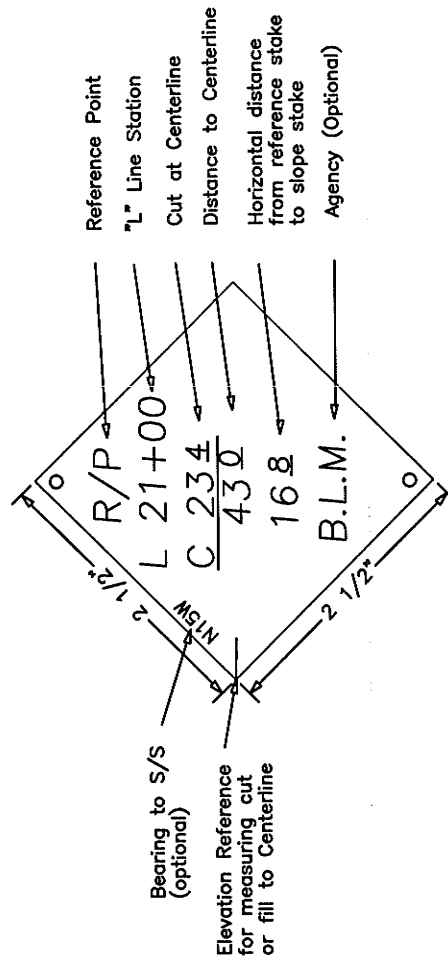


# EXHIBIT C 11

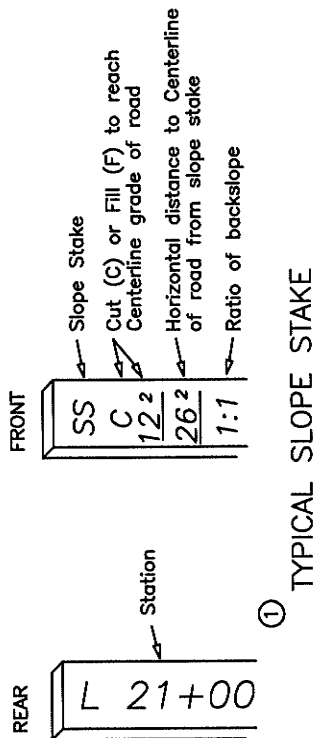
## SHEET 1 OF 1



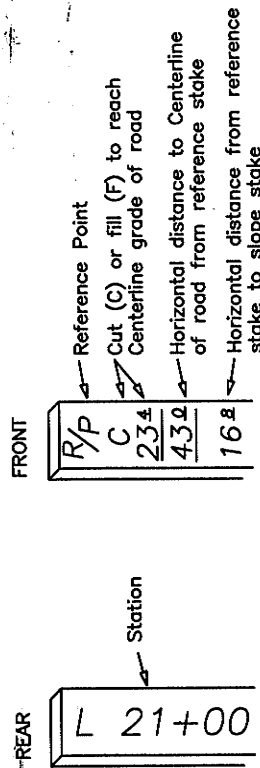
TYPICAL SLOPE STAKED CROSS SECTION



TYPICAL REFERENCE TAG



① TYPICAL SLOPE STAKE



② TYPICAL REFERENCE STAKE

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON	
TYPICAL SLOPE STAKING	
DESIGNED	John H. H. H.
REVIEWED	John H. H. H.
APPROVED	John H. H. H.
DRAWN	JMR
DATE	July 2011
SHEET	1 OF 1
DRAWING NO.	OR-117-TS06-26-C11

## SPECIAL PROVISIONS

1. Before beginning road construction operations for the first time or after a shutdown of seven or more days, the Purchaser shall notify the Authorized Officer of the date he plans to begin operations. The Purchaser shall also notify the Authorized Officer if he intends to cease operations for any period of 30 or more days.
2. Winterized - All road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway by water barring, maintaining drainage, barricades, and any additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer.
3. The P-line as staked in the field and as shown on Exhibit C, are intended to be used as a control, and should be considered as being in the area of the finished grade.
4. Seed mix and Straw sources: At agency discretion
  - A) Provided from BLM: based on availability
  - OR
  - B) Purchased from approved Commercial source:
5. The application of dust abatement materials such as Lignin or approved petroleum based dust abatement products shall be restricted from application just after wet weather or at stream crossings or other locations that could result in direct delivery to a water body.
6. Water sources/ Pump chances – Listed are approved water sources. Other water sources shall be approved by the Authorized Officer prior to use. The Purchaser is responsible for all permits and fees from water sources on private or commercial sources.

Location:

<u>ROAD # and NAME</u>	<u>MP</u>
39-3E-3 Head of Sampson	0.42
39-3E-17 Sampson Creek #2	0.56
38-3E-19 Dead Indian Creek. #1	2.88
39-3E-21 Cove Creek #1	2.21
39-3E-21 Cove Creek #2	2.18
38-3E-21 Sampson Creek	4.94



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ROAD SPECIFICATIONS

Jackson County, Oregon

INDEX

SPECIAL PROVISIONS

100	GENERAL
200	CLEARING AND GRUBBING
300	EXCAVATION AND EMBANKMENT
400	PIPE CULVERTS
500	RENOVATION OF EXISTING ROADS
600	WATERING
1800	SOIL STABILIZATION
2300	SLOPE STAKING
2600	POST HARVEST WORK

GENERAL - 100

## 101 - Prewrite Conference(s):

A prework conference will be held prior to the start of new construction, improvements, reconstruction, quarry development, surfacing, and soil stabilization. The Purchaser shall request the conference at least 72 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

The purpose will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors. A Prewrite conference shall be scheduled at the work site for quarry development.

## 102 - Definitions:

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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).

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.

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

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

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.

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.

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 pit run 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.

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.

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" mold, soil passing a No. 4 Sieve.  
25 blows/layer & 3 layers.  
Method D - 6" 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 claylike 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 & 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.

AASHTO T 224 Correction for coarse particles in the soil.

AASHTO T 238 Determination of density of soil and soil aggregates in place by nuclear methods.

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

DES. E-12 Determination of relative density of cohesionless soils.

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

103 - Compaction equipment shall meet the following requirements:

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM),

corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

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

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

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

#### CLEARING AND GRUBBING - 200

- \*201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans,(and as staked on the ground).
- 202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend (3) feet back of the top of the cut slope and (0) feet out from the toe of the fill slope.
- \*203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as posted.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing,(unless otherwise authorized).
- 204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground, and protruding obstacles remaining as a result of the clearing operation between the top of the cut slope and the toe of the fill slope.
- \*205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- \*210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized

Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.

- 212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.
- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

#### EXCAVATION AND EMBANKMENT - 300

- 302 - Excavation shall consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans, and as marked on the ground with stakes or metal tags.
- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans, and as marked on the ground with stakes or metal tags.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material and other deleterious materials and shall be placed and compacted as specified.
- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding (8) inches in depth.
- 305c - Embankments formed of material containing less than (25) percent rock not larger than (8) inches in the greatest dimension shall be placed in (12)-inch layers. Material containing more than (25) percent rock not larger than (12) inches in the greatest dimension shall be placed in successive layers not exceeding (2) feet in thickness. Individual rocks and boulders greater than (12) inches in diameter may be used to construct (2) foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.

- 306a - Minimum compaction for each layer of embankment and selected roadway excavation material placed shall be 1 hour of continuous compacting for each 150 cubic yards.
- 306e - The final subgrade including landings shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103h. Minimum compaction shall be 1 hour of continuous compacting for each (6) stations of road or a fraction of as measured along the centerline of the constructed road. Landings and shall be compacted by routing construction equipment over full width.
- 306f - Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures.
- 308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.
- 312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with these specifications.
- 313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of (6) inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306a.
- 314 - When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of (2) feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306a. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.



- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321b.
- 321b - Excess construction material as specified under Subsection 321 shall be loaded, hauled and disposed of at a disposal site as approved by the Authorized Officer.
- 323 - In the construction of channel changes and stream crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- \*324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of (2) feet on the uphill side.

#### PIPE CULVERTS - 400

- 401 - This work shall consist of furnishing and installing pipe culverts and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 402 - The pipe culverts located at the following road locations:
- | <u>Road No.</u>    | <u>Sta./M.P.</u> |
|--------------------|------------------|
| <u>39-3E-17.04</u> | <u>6+76</u>      |
|                    | <u>55+40</u>     |
|                    | <u>57+90</u>     |
- 403 - Grade culverts shall have same gradient as the adjacent road grade, except grades shall not exceed 10% nor be less than 2%, and shall be skewed down grade 30 degrees, as measured from the perpendicular to the centerline, unless otherwise specified on the plans.
- 404 - Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated and aluminum-rich paint on aluminum or aluminum-coated pipe.
- 405 - Corrugated steel riveted and helical pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or

AASHTO M 274 as specified on the plans.

- 406 - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218, or AASHTO M 274 with the exception of band widths and the "Hugger"-type band, which shall conform to the details, dimensions, and typical diagram shown on the plans.
- 406a - "Hugger"-type coupling bands shall only be used with annular corrugated which shall consist of two (2) annular corrugations.
- 408 - Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the types required under these specifications shall be installed so as to provide the circumferential and longitudinal strength necessary to preserve the pipe alignment, prevent separation of the pipe sections, and minimize infiltration of fill material.
- \*410 - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions and typical diagram shown on Exhibit C.
- \*412 - Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be excavated a minimum of (24) inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with selected granular or fine readily compactible soil material.
- 413 - Pipe culverts and pipe-arch culverts shall be bedded on a selected granular or fine readily compactible soil material having a depth of not less than (10) percent of the diameter or height of the drainage structure concerned or a minimum depth of:

Pipe Corrugation <u>Depth</u>	Minimum <u>Bedding Depth</u>
1/2 inch	1 inch
1 inch	2 inches
2 inches	3 inches

Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

- 414 - The invert grade of the bedding shall be cambered in accordance with the requirements and details shown on the plans and as directed by the Authorized Officer.

- 414a - The invert grade of the bedding shall be cambered at the middle ordinate a minimum of (1) percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.
- 416 - Side-fill material for pipe culverts shall be placed within (1) pipe diameter, or a minimum of (2) feet, of the sides of the pipe barrel, and to (1) foot over the pipe with fine, readily compactible soil or granular fill material free of excess moisture, muck, frozen material, roots, sod, or other deleterious or caustic material and devoid of rocks or stones of sizes which may impinge upon and damage the pipe or otherwise interfere with proper compaction.
- 423 - Construction of catch basins conforming to lines, grades, dimensions and typical diagrams shown on Exhibit C, included in the plans, shall be required.
- 427 - The Purchaser shall record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.

#### 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.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans at the following locations:

Road No.	From	To
38-3E-32.03	0.00	0.15
38-3E-33.02	0.00	0.20
39-3E-17.02	0.00	0.10
39-3E-17.03	0.00	0.24
39-3E-21.02	0.00	1.30
39-3E-21.03	0.00	0.26
39-3E-28.00	0.00	0.26
39-3E-28.02	0.00	0.53
39-3E-9.02	0.00	0.20

## EXHIBIT C - 12

Sale Name: Cottonwood T.S.

Sheet 13 of 17

Road No.	From	To
39-3E-9.05	0.00	0.45
39-3E-9.06	0.00	0.24

- 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 all 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 all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration.
- 507 - The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 5 days notice prior to final inspection of the grading operations.

WATERING - 600

- 601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds laying dust, or for other uses in accordance with these specifications.
- 602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.
- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the roadbed.
- 605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water source(s) selected by the Purchaser and approved by the Authorized Officer.

SOIL STABILIZATION - 1800

- 1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans.
- 1802a- Soil stabilization work consisting of seeding and mulching shall be performed on all

disturbed portions of roads shown in Section 2601, landings, and all disturbed areas in accordance with these specifications and as shown on the plans.

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

From: August 1 to: October 31

- 1804 - The Purchaser shall furnish the following species of grass seed meeting corresponding germination, purity, and weed content requirements:

	Germination	Purity	Weed Content
<u>Species</u>	<u>Min. %</u>	<u>Min. %</u>	<u>Max. %</u>
California Brome	85	95	0.2
Blue Wild Rye	85	95	0.2

The grass seed furnished shall meet the minimum requirement for Blue Tag Seed as set forth in the latest edition of Oregon Certification Standards published by Oregon State University. Seed source shall be approved by the Authorized Officer and shall be from general region where the project occurs.

The Purchaser shall furnish the Authorized Officer a Seed Test Result from a certified seed testing lab (Oregon State University), which shall include: date of test; lot number of each kind of seed; seed source; and results of tests as to name, percentages of purity and of germination, weed species and percentage of weed content, for each kind of seed furnished and, in case of mixture, the proportions of each kind of seed. The seed must have been tested within the last year to be accepted for use on this contract.

Genetically appropriate native plant species (seed or other native plant materials) shall be selected as a first choice for project work. If native grass/forb seed or (other plant materials) is not available, non-native species to be used shall be approved by the appropriate resources specialist (botanist, native plant coordinator, etc.) and authorized officer prior to application on the ground.

- 1805 - The Purchaser shall mix grass seed specified under Subsection 1804 in the following proportions: Seed Mixture "A":

<u>Species</u>	<u>Percent of Total by Wt.</u>	<u>Lbs. per Acre</u>
California Brome	50%	10
Blue Wild Rye	50%	10
TOTALS	100	20 lbs./ac.

- 1809d - Straw mulch shall be from native grass or other approved grain crops which are certified weed free, and free from noxious weeds, mold, or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for placing in a uniform manner. Straw

mulch shall be applied evenly in treatment areas to a depth of 2 inches (approximately 1000 lbs/ac), or as directed by the Authorized Officer.

- 1810 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided it is maintained in a dry state and has the approval of the Authorized Officer.
- 1811 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string, or hemp rope. Wire binding and plastic twine will not be permitted.
- 1812 - The Purchaser shall furnish and apply to acres designated for treatment as shown on the plans, a mixture of grass seed and mulch material at the following rate of application:

Grass seed	20 lbs./acre
Mulch	1000 lbs./acre
- 1816b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipacker seeders, or other approved mechanical seeding equipment may be used when seed is to be applied in dry form.
- 1820 - The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date he intends to commence the specified soil stabilization work.
- 1822 - Mulch that collects at the ends of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer's Rep.
- 1823 - No material shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1826 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

#### SLOPE STAKING - 2300

- 2301 - This work shall consist of slope staking road locations from notes furnished by the BLM in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 2302 - Slope stakes shall consist of smooth-finished wood slats of good quality, approximately 18 inches in length and tipped with red luminous paint.

2303 - Slope stakes shall be set as follows:

- (a) A slope stake shall be set at the top of the cut slope for cut and fill and full bench sections as shown on the typical road sections sheet included in the plans.
- (b) For fill sections, only the uphill side shall be staked, unless otherwise specified.

2305 - Slope stakes and reference stakes shall be marked as shown on the plans.

2307 - Culvert locations shall be identified with a stake meeting the requirements of subsection 2302 placed alongside the reference stake or slope stake.

2308 - Culvert locations shall have extra widening added to the catch basin side of the roadway based on 1-1/2 times the culvert diameter.

2309 - Stationing used is "L" or final location stationing.

2310 - Stakes shall be marked with black lumber crayon or with a permanent waterproof felt-tip marker.

2312 - The Purchaser shall complete the required slope staking a minimum of 5 days in advance of construction unless otherwise agreed. Staking and slope staking notes shall be approved in writing by the Authorized Officer prior to right-of-way clearing, timber falling, and construction.

2313 - The Purchaser will slope stake and furnish the BLM the resulting notes in advance of construction on the road shown below:

Road No.	Approximate Sta./Mi.
39-3E-17.04	60+90

#### POST HARVEST ROAD WORK - 2600

2601 - Construct barricades and construct waterbars on the following roads after use during same operating season:

Road No.	From	To
39-3E-17.04	0.00	1.15
39-3E-21.02	0.00	1.30

## EXHIBIT C - 12

Sale Name: Cottonwood T.S.

Sheet 17 of 17

Road No.	From	To
39-3E-9.05	0.00	0.89
39-3E-9.06	0.00	0.48
39-3E-5.04	0.00	0.64
38-3E-5.05	0.00	0.18
TOTAL MILES		4.64

2601a - Construct barricades on the following roads after use during same operating season:

Road No.
38-3E-32.03
38-3E-33.02
39-3E-17.02
39-3E-17.03
39-3E-28.00
38-3E-9.02

2602 - Post harvest road work shall consist of the following treatments:

- a. Construct water bars at 300' spacing, or as staked or directed by the Authorized Officer's Representative.
- b. As directed by the Authorized Officer construct rock, log, or earth barricades near the beginning of road to be decommissioned. The final locations will be staked by the Authorized Officer's Rep.



**SPECIFICATION  
TABLE OF CONTENTS**

Section 3000	General	Sheet 2
Section 3100	Operational Maintenance	Sheet 2
Section 3200	Seasonal Maintenance	Sheet 4
Section 3300	Final Maintenance	Sheet 5
Section 3400	Other Maintenance	Sheet 5

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads listed and/or referenced in Section 41(C)(4) 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 and 3404.
- 3002 - The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards.
- 3003 - The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 - The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism, shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 - The Purchaser shall blade and shape the road surface and shoulders with a motor 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 traveled way, when directed by the Authorized Officer.

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

- 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.
- 3108a - The Purchaser shall perform logging operations on gravel 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 Subsection 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 yd<sup>2</sup> of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds<sup>2</sup> of rock hauled. Subsequent waterings may be done at a rate less than one-half gallon per yd<sup>2</sup> when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

Road No.	From M.P./STA	To M.P./STA
38-3E-32.00	0.00	2.03
38-3E-33.00	0.00	0.65
38-3E-33.03	0.00	0.43
38-3E-33.04	0.00	0.18
39-3E-03.00	0.00	1.92
39-3E-17.00	0.00	1.00
39-3E-21.00	0.00	1.28
39-3E-29.00	0.00	0.18
39-3E-32.00	0.00	1.81
39-3E-05.03	0.00	0.32
39-3E-27.5	0.00	1.63
38-3E-32.03	0.00	0.28
38-3E-32.05	0.00	0.27
38-3E-33.02	0.00	0.54
39-3E-09.02	0.00	0.45
39-3E-09.03	0.00	0.50

Road No.	From M.P./STA	To M.P./STA
39-3E-09.05	0.00	0.89
39-3E-09.06	0.00	0.16
39-3E-17.02	0.00	0.20
39-3E-17.03	0.00	0.47
39-3E-17.04	0.00	1.15
39-3E-28.00	0.00	0.32
39-3E-28.02	0.00	0.16
39-3E-21.03	0.00	0.30
39-3E-21.02	0.00	1.26

During drought periods when the transportation of water from the source to the roads noted above exceeds 10 miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering, based on equipment rental rates from current BLM Timber Appraisal Production Cost Schedules.

3403a - During dry hauling conditions when the authorized officer determines watering is not required, the Purchaser shall reduce hauling speeds to 5 MPH and/or restrict the number of loads hauled to 2 per day on the following road:

Road No.	From M.P./STA	To M.P./STA
38-3E-32.00	0.00	2.03
38-3E-33.00	0.00	0.65
38-3E-33.03	0.00	0.43
38-3E-33.04	0.00	0.18
39-3E-03.00	0.00	1.92

Road No.	From M.P./STA	To M.P./STA
39-3E-17.00	0.00	1.00
39-3E-21.00	0.00	1.28
39-3E-29.00	0.00	0.18
39-3E-32.00	0.00	1.81
39-3E-05.03	0.00	0.32
39-3E-27.5	0.00	1.63
38-3E-32.03	0.00	0.28
38-3E-32.05	0.00	0.27
38-3E-33.02	0.00	0.54
39-3E-09.02	0.00	0.45
39-3E-09.03	0.00	0.50
39-3E-09.05	0.00	0.89
39-3E-09.06	0.00	0.16
39-3E-17.02	0.00	0.20
39-3E-17.03	0.00	0.47
39-3E-17.04	0.00	1.15
39-3E-28.00	0.00	0.32
39-3E-28.02	0.00	0.16
39-3E-21.03	0.00	0.30
39-3E-21.02	0.00	1.26

Adjustments to the above schedules may be made by the Authorized Officer at his option as hauling conditions improve. The Purchaser, at his option and expense, may elect to substitute watering or other dust palliatives in lieu of the above hauling requirements provided that written approval is received from the Authorized Officer. Such authorization shall



— include the approval of product specifications for the application and the product to be used.

- 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.

COTTONWOOD TIMBER SALE  
ROAD LOCATION MAP  
EXHIBIT D-2; PAGE 1 OF 1

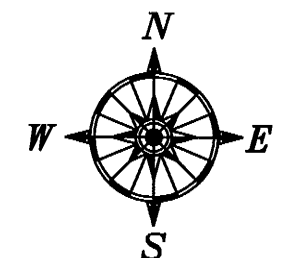
T.38S.

T.39S.

U.S.D.I. BLM MEDFORD DISTRICT

T.38S., R.2E. WILL. MER.  
T.38S., R.3E. WILL. MER.  
T.39S., R.2E. WILL. MER.  
T.39S., R.3E. WILL. MER.

- EXISTING GATE
- EXISTING BARRICADE
- PUMP CHANCE
- ROAD PROJECTS
  - EXISTING ROAD
  - EXISTING PAVED ROAD
  - EXISTING PRIMITIVE ROAD
- OPERATOR MAINTENANCE
- BLM MAINTENANCE
- BLM LAND
- TS UNITS
- CASCADE-SISKIYOU NATIONAL MONUMENT



0 1/2 1  
SCALE IN MILES

R.2E.

R.3E.

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-TS11-20
Sale Name Cottonwood
Sale Notice (dated) 08/24/2011
BLM District Medford

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input checked="" type="checkbox"/> Written Bid for Oral Auction Sale
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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 **\$15,700.00** 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
White fir	MBF	2300	X	=	X	=
Douglas-fir	MBF	895	X	=	X	=
Ponderosa pine	MBF	36	X	=	X	=
Incense-cedar	MBF	3	X	=	X	=
<b>TOTAL</b>		<b>3234</b>	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.