# PROSPECTUS

GRANTS PASS RESOURCE AREA JOSEPHINE MASTER UNIT

Medford Sale # ORM07-TS-19-03 November 29, 2018 (LS)

#3. Bear Creek Timber Sale, Josephine County, O&C BID DEPOSIT REQUIRED: \$9,900.00

All timber designated for cutting in W1/2NE1/4, E1/2NW1/4, Willamette Meridian.

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
4,510	716	Douglas-fir	898	\$108.70	\$97,612.60
77	8	sugar pine	10	\$41.90+	\$419.00
111	15	ponderosa pine	20	\$39.30+	\$786.00
19	.8	Incense cedar	1	\$99.40	\$99.40
4,717	739.8		929		\$98,917.00

<sup>\*</sup>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 District Office.

<u>TIMBER AUCTION LOCATION</u> – The timber auction will be held at the Grants Pass Interagency Office, located at 2164 NE Spalding Avenue Grants Pass, Oregon, at 9 a.m. on Thursday, November 29th, 2018.

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

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

Approximately 0 trees which are considered to be nonmerchantable are designated for cutting. With respect to merchantable trees of all conifer species: the average tree is 15.3 inches DBHOB; the average gross merchantable log contains 62 bd. ft.; the total gross volume is approximately 1,033 M bd. ft; and 90% recovery is expected. (Average DF is 15.4 inches DBHOB; average gross merchantable log DF contains 62 bd. ft.)

<u>LOG EXPORT AND SUBSTITUTION RESTRICTIONS</u> - All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export under the United States in the form of unprocessed timber and is prohibited from use as a substitute for exported

<sup>\*\*</sup>The purchase of biomass material is optional. If the Puchaser chooses to purchase biomass/firewood, then it will be modified into the timber sale contract and a fair market price will be established at that time.

<sup>\*</sup>Minimum Stumpage values were used to compte the Appraised Price/MBF (10% of Pond Value)

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 - One (1) 15-1 unit containing seventy (70) acres must be partial cut.

<u>CUTTING TIME</u> - Contract duration will be Twenty four (24) months for cutting and removal of timber.

<u>ACCESS</u> - Access to the sale area is available via a State and County public road system through the contract area, existing BLM roads, and:

(B)(9) Right-of-Way and Road Use Agreement M-1166 with John Hancock Life Insurance Company.

Among other conditions, this agreement requires, but is not limited to:

- (1) completion of an agreement between the Purchaser and Permitee.
- (2) road maintenance to be completed by the Purchaser.
- (3) arbitration of conditions of road use. The Permitee has indicated they require a road use obligation of \$1,276.00.
- (4) arbitration of conditions of road use. The Permitee has indicated they require a rock wear obligation of \$0.00.

<u>ROAD MAINTENANCE</u> - The Purchaser will be required to maintain all of the roads which he constructs plus 7.33 miles of existing rocked and natural surfaced BLM and Third Party (Industry) roads. The BLM will maintain 2.25 miles of existing bituminous BLM roads. The Purchaser will be required to pay a rock wear fee of \$870.54 and maintenance fee of \$1,702.23 for the use of these roads listed in the contract.

<u>ROAD CONSTRUCTION</u> - The contract will require the Purchaser to renovate 268.23 stations of existing road, and construct/decommission 4.95 stations of temporary route. Additional information is available in the timber sale prospectus.

SOIL DAMAGE PREVENTION - Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not conduct mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, or landing decommissioning in the Harvest Unit between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not conduct any haul on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized

Officer, the waiver will be revoked.

<u>EQUIPMENT REQUIREMENTS</u> - 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 with a medium (42-54 foot) tower; capable of one-end suspension with a minimum lateral yarding capability of seventy-five (75) feet while maintaining a fixed position during inhaul; capable of multi-span; and capable of an external yarding distance of eleven hundred forty two (1142) feet slope distance. A minimum two hundred (200) flywheel horsepower tractor with mounted rippers no more than thirty six (36) inches apart and capable of ripping to a depth of eighteen (18) inches will be required for decommissioning temporary routes and utilized skid roads within Riparian Reserves and regeneration harvest units.

<u>SLASH DISPOSAL</u> - Slash disposal will consist of lop and scatter, machine pile and cover, machine pile burn and mop up, cover and burn landing decks as described in SD-5 of the Special Provisions.

LOP AND SCATTER all slash in the unit and arrange slash in a discontinuous pattern across the forest floor. MACHINE PILE COVER AND BURN all slash at landings and within 20 feet of landing piles along roadsides and within tractor portion of the unit. HAND PILE, COVER, AND BURN all slash in hand pile areas as shown on Exhibit S. SELECTIVE SLASHING in selective slash area as shown on Exhibit S. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed forty six and a half (46.5) acres of lop and scatter, four and a half (4.5) acres of machine pile, cover, burn, and mop-up machine piles, three (3) acres of machine pile, cover, burn, and mop-up hand piles, and eight (8) acres of selective slash.

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. 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.

<u>PERFORMANCE BOND</u> - 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. In cable yard and hand felled ground based harvest units shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs as determined by the Authorized Officer.
- 4. A harvester, feller-processor, or feller-buncher with purpose built carriers with boommounted felling heads and a boom with a minimum lateral reach of twenty (20) feet may be used in the ground based units. See the Bear Creek Special Provisions for full ground based harvesting restrictions.
- 5. Cable corridors and skid trails that are hydrologically connected; or are perpendicular to and within one hundred eighty five (185) feet of streams shown on Exhibit A shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.

#### NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA -

To access the unit: From Grants Pass, take Redwood Hwy (199) headed west through Selma. Once in Cave Junction turn left onto Caves Hwy. Travel East approximately 6.5 miles. Turn Left onto Bear Creek Rd. The unit can be accessed from BLM roads located off the Bear Creek Rd.

<u>ENVIRONMENTAL ASSESSMENT</u> - A Categorical Exclusion DOI-BLM-ORWA-M070-2018-0008-CX was prepared for this sale, it was determined that the proposed action is in accordance with the approved land use plan and no further environmental analysis is required. This document is available for inspection as background for this sale at the Medford District Office.

#### BEAR CREEK TIMBER SALE

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 INTERAGENCY OFFICE.

- Sec. 41. 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) <u>AR-1</u> All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) <u>IR-1</u> Approximately fourteen hundred twenty two (1,422) Douglas-fir, two hundred nine (209) oak, one hundred fifty (150) sugar pine, one hundred sixty five (165) ponderosa pine, forty seven (47) other hardwoods, eighty two (82) snags and twenty nine (29) incense cedar trees marked with orange paint above and below stump height in the Harvest Area shown on Exhibit A (Trees marked as above may not be cut under Section 42(16) unless specifically approved in advance by the Contracting Officer).
- (C) <u>IR-6</u> All snags in the Harvest Areas shown on Exhibit A. All snags felled for safety reasons shall be retained on site.
- (D) <u>IR-13</u> All hardwoods in the Harvest Areas shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer. Hardwoods felled for safety reasons shall be retained on site.
- (E) <u>IR-13</u> All trees in the inner riparian zone that are cut for operation purposes as shown on Exhibit A shall be retained on site as directed by the Authorized Officer.
- (F) IR-14 All pre-existing dead and down logs in the Harvest Area shown on Exhibit A.

#### Section. 42.

#### (A) LOGGING

- (1) <u>L-1</u> Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) <u>L-2</u> Prior to the commencement of operations the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. A prework conference between the Purchaser's authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
- (3) <u>L-4</u> All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) <u>L-5</u> All conifer trees eight (8) inches or larger D.B.H.O.B., which are not reserved shall be felled in all Harvest Areas shown on Exhibit A.
- (5) <u>L-8</u> In cable yard and hand felled ground based harvest units shown on Exhibit A, all trees designated for cutting shall be felled and whole tree yarded or yarded with tops attached except when excessive stand damage occurs. If excessive stand damage occurs, all trees shall be bucked into log lengths not to exceed forty one (41) feet prior to being yarded.
- (6) <u>L-10</u> In the Harvest Area shown on Exhibit A, all trees designated for cutting shall be directionally felled away from streams, unit boundaries and resource buffers. Use of jacks, wedges, and/or tree pulling with cables or lines shall be employed when necessary to meet this requirement.
- (7) <u>L-12</u> In the Harvest Area shown on Exhibit A, Yarding shall be done in accordance with the yarding requirements or limitations for the designated area listed below.

Designated Area	Yarding Requirements or Limitations		
Ground Based Harvest Portion	Specialized/ Mechanized harvesting operations are optional. All ground-based harvest units may be manually felled.		
	Specialized mechanized felling operations shall be limited to slopes of fifty (50) percent or less except on preexisting skids and short steeper pitches.		
	Non specialized mechanized ground based equipment must operate on slopes generally less than thirty-five (35) percent slope except on preexisting skids and short steeper pitches.		
	Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(11) of this contract.		
	The harvester, feller-processor, or feller-buncher shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose built carriers with boom-mounted felling heads may be approved. The boom must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible. The purpose-built carrier may be of the articulated, rubber-tired design, or the zero-clearance tail swing leveling track-mounted design.		
	The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer. If Purchaser is required to create slash to walk on, then Purchaser shall not be required to whole-tree-yard.		
	Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch to suspend one end of the log.		
	Cull material skided to the landing may be required to be redistributed back into the unit.		
Designated Area	Yarding Requirements or Limitations		
Ground Based	Prior to October 15 <sup>th</sup> , block, rehabilitate and apply erosion		

Harvest Portion Cont.	control measures to skid trails and landings that are hydrologically connected to perennial steams in units. Existing skid roads shall be used when possible. Skid roads shall not exceed a width of twelve (12) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow, unless the Purchaser proposes an alternate logging plan that limits soil compaction to less than twelve (12) percent, limits soil productivity loss to less than five (5) percent of the harvest unit, and is approved by the Authorized Officer.  Landing size shall not exceed one-half (1/2) acre, shall be located along existing roads and/or cable-tractor swing routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.
	located along existing roads and/or cable-tractor swing routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with adequate
	If trenches, depressions, or excessive disturbance occurs, the Authorized Officer will suspend operations until a remedy is determined.

Designated Area	Yarding Requirements or Limitations	
Cable Yard Portion	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. The cable yarding system shall be capable of yarding eleven hundred forty two (1,142) feet slope distance.  Full suspension is required over the perennial stream as shown on Exhibit A.	
	carriage is required which will maintain a fixed position a the skyline during lateral yarding and has a minimum teral yarding capability of seventy five (75) feet.	
Cable Yard Portion Cont.	Yarding corridors will be perpendicular to the contours and located outside of all buffers shown on Exhibit A.	

Prior to falling any timber in the unit, all tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.

Yarding corridor widths shall be approximately 12 feet.

Existing cable corridors shall be used whenever possible.

Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.

Landing size shall not exceed one-quarter (1/4) acre, shall be located along existing roads within unit boundaries where possible, and shall be approved by the Authorized Officer. Short purchaser spurs into units may be necessary to achieve one-end log suspension.

Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.

Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.

Cull material yarded to the landing may be required to be redistributed back into the unit.

Cable corridors that are hydrologically connected; or are perpendicular to and within one hundred ninety (190) feet of streams shown on Exhibit A shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.

- (8) <u>L-14</u> No falling, yarding or loading is permitted in or through the Reserve Area or streams, except as permitted with full suspension over the perennial stream as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
- (9) <u>L-19</u> No mechanical ground based harvesting, ground based yarding, skid trail, temp route and landing construction or rehabilitation, machine piling or non-emergency road maintenance shall be conducted in the sale area units between October 15 of one calendar year and May 15 of the following calendar year both

days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

- (10) <u>L-19</u> No haul shall be conducted in the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (11) <u>L-24</u> Before cutting and removing any trees necessary to facilitate logging in the Harvest Area shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:
  - (a) All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contact and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Contracting Officer, the width of each skid road, and/or cable yarding road shall be limited to twelve (12) feet.
  - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land

Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Section 3.(b). of the contract or sufficient bonding has been provided in accordance with Section 3.(e). of the contract.

- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section 9 of the contract; or, the Authorized Officer determines that the species of trees are not listed in Exhibit B of this contract shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Section 8 or Section 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
- (f) The Government may reserve trees previously designated for cutting and removal by blacking out blue paint, and/or applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescriptions. This may include the

replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.

(12) <u>L-33</u> Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties in the Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

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

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

#### (B) ROAD CONSTRUCTION, MAINTENANCE, AND USE

(1) <u>R-1</u>: The Purchaser shall construct, improve, renovate, maintain and/or decommission all roads, structures, and temporary routes listed for use under this

contract in accordance with the plans and specifications shown on Exhibits C and D, which is attached hereto and made a part hereof.

- (2) <u>R-1a</u>: Any required renovation of roads shall be completed and accepted, in accordance with Section 18, **prior** to the removal of any timber, except right-of-way timber, over that road.
- (3) <u>R-1b</u>: The Purchaser shall construct, reconstruct, use, and decommission temporary routes by October 15<sup>th</sup> of the same respective operating season.
- (4) <u>R-1c</u>: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than 5 days after such notice, and shall be completed within 1 year after such notice.
- (5) R-2: The Purchaser is authorized to use the roads listed below and shown on Exhibits C and D for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance and rock wear obligations described in Section 42(B)(6) and Section 42(B)(9). Any road listed on Exhibit C and D and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length in Miles	Road Control	Surface Type	Maintenance Responsibility
39-7-21.0 (A-B)	2.25	BLM	BST	BLM
39-7-16.0 (A-B)	1.70	BLM	ASC	Purchaser
39-7-15.2 (A)	0.34	JHLIC	NAT	Purchaser
39-7-21.2 (A)	0.21	BLM	ASC	Purchaser
39-7-21.4 (A)	0.42	BLM	ASC	Purchaser
39-7-21.4 (B)	0.60	BLM	NAT	Purchaser
39-7-21.4 (C-D1)	1.81	JHLIC	NAT	Purchaser
Total	7.33			

(6) R-2b: The Purchaser shall pay the Government a road rock wear fee of **eight** hundred seventy and 54/100 dollars (\$870.54) and a maintenance fee of one thousand seven hundred two and 23/100 dollars (\$1,702.23) for the transportation of timber included in this contract price over said roads. The above

rock wear and maintenance fee amount is for the use of 7.33 miles of road or less. The total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), therefore the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.

- R-2e: The Contracting 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 and rockwear fees for the particular surface type of the roads involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Section 42(B)(5). If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (8) <u>R-2f</u>: The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (9) R-3: In the use of Roads 39-7-15.2(A) and 39-7-21.4(C-D1), the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-1166, between the United States of America and **John Hancock Life Insurance Company (JHLIC)**. This document is available for inspection at the Medford District Office.

These conditions include:

- (a) Payment of a road use obligation of **one thousand two hundred seventy six and no/100 dollars** (\$1,276.00) to John Hancock Life Insurance Company, payable at the time indicated in the License Agreement.
- (b) Payment of a road rock wear obligation of **zero dollars** (**\$0.00**) to John Hancock Life Insurance Company, payable at the time indicated in the License Agreement.
- (c) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
- (d) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage

suffered by the Government as a result of the violation of this provision.

- (10) R-3c: The Purchaser agrees that if they elect to use any other private roads, 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.
- (11) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

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 or equipment: (1) without written approval; (2) in violation of the conditions of a written approval; or, (3) in a negligent manner.

The amount of actual damage shall be determined by the Authorized Officer following a technical inspection and evaluation.

(12) R-5: Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures, or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained

from the Authorized Officer when crossing with protective devices.

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

#### (C) ENVIRONMENTAL PROTECTION

- (1) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:
  - (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, chipping, grinding, shredding, 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 equipment inspected by the BLM would be allowed to operate within the Analysis Area. All subsequent move-ins of equipment as described above shall be treated the same as the initial move-in.
  - (d) Prior to initial move-in of any 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) Equipment would be visually inspected by the Authorized Officer to verify that the equipment has been reasonably cleaned.
- (2) <u>E-1</u> In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:

Upon decommissioning and prior to fall rains, the Purchaser shall scarify and contour landings and temporary spurs to provide for adequate drainage, then stabilize and revegetate all bare soil with certified weed free straw mulch and a native seed mixture approved by the Authorized Officer. Landings on roads and rocky areas that lack soil for seed germination need not be scarified, seeded or mulched, as determined by the Authorized Officer. The BLM may provide the seed mixture and

straw mulch if the purchaser is unable to locate and buy the approved materials from a commercial source. The Purchaser shall reimburse the government for the cost of seed and straw, if provided by the government. The Purchaser shall furnish the specific seed mixture prescribed by the Authorized Officer, which will include up to 3 grasses and 2 forbs from the following list, but may include substitutions approved by the Authorized Officer:

<u>Grasses</u>: Achnatherum lemmonii, Bromus carinatus, Brumus vulgaris, Elymus glaucus, Festuca californica, Festuca roemeri, Koeleria macrantha, Poa secunda, Vulpia microstachys <u>Forbs</u>: Achillea millefolium, Clarkia purpurea, Clarkia homboidea, Collinsia grandiflora, Eriophyllum lanatum, Lupinus bicolor, Madia elegans, Madia gracilis

The proportion of each species in the mixture shall be prescribed by the Authorized Officer. The Purchaser shall apply prescribed seed and straw mulch to acres designated for treatment, as directed by the Authorized Officer, at the following rates of application:

Grass seed 20 to 25 lbs/acre (cumulative, all species)
Forb seed 0.5 to 2 lbs/acre (cumulative, all species)

Straw mulch 1000 lbs/acre

The Purchaser shall apply seed and straw mulch between August 1 and October 15. Deviations from that timing must be approved by the Authorized Officer. The Purchaser shall notify the Authorized Officer at least 5 days in advance of the date that he/she intends to commence revegetation and soil stabilization work.

If the Purchaser furnishes seed from any source other than the BLM, that seed shall meet the following minimum test standards:

<u>Test</u>	Grasses (%)	Forbs (%)
Purity:	95	80
Germination:	85	70
Other species/weed content (max):	0.2	0.2
Noxious weed content:	Prohibited	Prohibited

Furnished seed shall meet the minimum requirements for either Yellow Tag Source Identified Seed or Blue Tag Certified Class Seed, as defined by the Association of Official Seed Certifying Agencies. Seed source shall be approved by the Authorized Officer and shall be from the EPA Level III Ecoregion in which the project occurs. For each lot of seed, the Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (e.g., Oregon State University), which shall include: test date; lot number; seed source; and results of test for purity,

germination, and weed content. All seed lots must have been tested within the previous 12 months to be accepted. Seed that has become wet, moldy, or otherwise damaged shall not be accepted. Seed must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work. If the Purchaser furnishes straw mulch from any source other than the BLM, the material must be from native grass or other approved sterile grain crops that are certified weed free and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for spreading in a uniform manner. Straw mulch must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

- (3) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142 (OARD, 2018), and the operator will have a Spill Prevention, Control and Countermeasure Plan (SPCC) in place. the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not refuel equipment, store, or cause to have stored, any fuel or other petroleum products within one hundred fifty (150) feet of all riparian management or wet areas. All Petroleum products shall be stored in durable containers and located so that any accidental releases will be contained and not drain into any stream system. Hydraulic fluid and fuel lines on heavy mechanized equipment would be in proper working condition in order to minimize potential for leakage into streams. Absorbent materials shall be onsite to allow for immediate containment of any accidental spills. Spilled fuel and oil shall be cleaned up and disposed of at an approved disposal site.
- (5) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not locate new landings in areas that contribute eroded fines to streams, wet areas, dry draws and swales. If these landing locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (6) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall ensure that silt fencing or other sediment control measures are

properly placed and maintained during use and periods of non-use when utilizing landings, skid tails, cable-tractor swing routes or temp routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met.

- (7) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, prior to October 15 of the same operating season, winterize temporary routes, landings, hydrologically connected corridors, skid trails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.
- (8) <u>E-1</u> In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer rehabilitate all ground based skid trails utilized within one hundred ninety (190) feet of streams, all temporary routes, cable-tractor swing routes, and all landings outside of the road prism by October 15th by one of the following methods:
  - (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, seed, mulch, and barricade.
    - 1. Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which, is attached hereto and made a part hereof.
    - 2. Rip to a depth of twelve (12) inches, and no further than thirty six (36) inches apart.
    - 3. Ripping will occur prior to the end of the operating season.
    - 4. Any step landings shall be re-contoured following use, prior to the end of the operating season.
    - 5. If hauling on a temporary route is not completed in the same year the route is constructed, the route would be winterized and blocked by October 15<sup>th</sup>.

- (b) If the Authorized Officer deems ripping will cause an unacceptable amount of damage to the root systems of residual trees the Purchaser shall scarify to a depth of up to six (6) inches and simultaneously water bar, seed, mulch, and barricade.
- (9) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall place material removed during excavation in locations where it cannot enter streams or other water bodies.
- (10) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, upon completion of skidding, pull vegetation over and block skid trails if unauthorized off-highway vehicles (OHV) are identified utilizing the skid trails.
- (11) <u>E-1</u> In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall create fourteen (14) snags via girdling or other approved methods in riparian reserves as shown on Exhibit A.
- (12) <u>E-2</u> The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C6-1 which is attached hereto and made a part hereof.
- (13) <u>E-3</u> The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
  - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
  - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
  - (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 Special Status Species Management have been identified, and a determination is made that continued operations would affect the species or its habitat, or;

- (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
- (e) when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
  - 1. species have been discovered which were identified for protection through 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;
  - 2. when, in order to protect species which were identified for protection through 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 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.j. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

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

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

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, 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.

#### (D) MISCELLANEOUS PROVISIONS

(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 six hundred ninety six dollars and seventy five cents (\$696.75). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of six hundred ninety six dollars and seventy five cents (\$696.75) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

#### (E) <u>FIRE PREVENTION</u>

- (1) <u>F-1 Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
- (2) <u>F-1a Fire Prevention and Control</u>. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
  - (a) At least three (3) days prior to the operation of power-driven equipment during any 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 Authorized Officer and the State of Oregon Department of Forestry.
  - (b) Provide and maintain on the contract area in good working order, and immediately available, 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 employees 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 be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (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. <u>F-2b</u> At each landing or such other place as the Authorized Officer shall designate during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with a minimum of five hundred (500) feet of 1½ inch hose (must be adequate length to reach 200 feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzles and three (3) 1 inch nozzles. One (1) three hundred (300) gallon fire engine may be substituted for each required 300 gallon tank truck,

provided that the total capability to pump and deliver water remains unchanged. Each fire engine / tank truck shall be equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and fire/tank trucks shall be filled with fuel and made ready for immediate use. All fire/tank trucks shall be filled with water and made available for immediate use.

- 3. <u>F-2c</u> Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of Forestry. Such communication shall be available during periods of operation including the time watchman service is required.
- 4. <u>F-2d</u> A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire lines at night.
- 5. F-2f A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.
- 6. <u>F-2f</u> 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.
- 7. <u>F-2g</u> A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Authorized Officer and a size 0 or larger shovel shall be carried during the closed fire season or periods of fire danger by each falling crew and each bucker 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. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Authorized Officer.

- (c) <u>F-5</u> Where blocks and cables are used on the contract area during periods of fire danger, the Purchaser shall remove all flammable material at least ten (10) feet from the place where the tail or any other block will hang when the cable is tight. Such clearings shall be inspected periodically by the Purchaser and shall be kept free of flammable material.
- (3) <u>F-9</u> During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

#### (F) SLASH DISPOSAL

- (1) <u>SD-1</u> <u>Fire Hazard Reduction</u>. 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 measures required by this contract:
  - (a) SD-1a LOP AND SCATTER Lop and scatter all slash in the harvest unit as shown on Exhibit S. All top and side branches must be free of the central stem so that such stem is reduced to the extent that it is within eighteen (18) inches of the ground at all points. Slash includes all woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract. Lop and scatter shall be completed in accordance with Exhibit S as directed by the Authorized Officer.
    - 1. All slash shall be arranged in a discontinuous pattern across the forest floor.
    - 2. All slash shall be loped to no more than eight (8) feet in length.

- (b) SD-1b MACHINE PILE, COVER, AND BURN ROADSIDES, AND TRACTOR PORTION OF UNIT. Pile and burn all slash cut within twenty (20) feet of the roads that coincide with the unit. Slash shall be piled by machine. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of earth.
  - 1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
  - 2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
  - 3. All equipment shall be approved by the Authorized Officer. Piling shall be accomplished using a track mounted hydraulic excavator or equivalent with at least a five (5) tooth brush rake. The excavator shall have a minimum reach of twenty (20) feet. The excavator shall be equipped with a hydraulic thumb or rotating controllable grapple head.
  - 4. Machine piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
  - 5. Machine piles shall be adequately covered with a cap of ten (10) feet by ten (10) feet of four (4) millimeter black polyethylene plastic. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.
  - 6. Machine piles shall not be placed within fifteen (15) feet of snags, stumps, reserve trees or large woody debris.
  - 7. Machine piles will be burned within eighteen (18) months of harvest completion.
  - 8. Machine piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.

- 9. The purchaser shall burn one hundred (100) percent of machine piles with a minimum consumption of ninety (90) percent.
- 10. The Purchaser is required to furnish the fuel and equipment for machine pile burning.
- (c) <u>SD-1c HAND PILE, COVER, AND BURN</u> Pile and burn all slash situated in the harvest unit boundary. Slash shall be piled by hand. Piling shall be completed in accordance with Exhibit S as directed by the Authorized Officer. Finished piles shall be tight and free of earth.
  - 1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.
  - 2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
  - 3. Hand 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, or as directed by the Authorized Officer.
  - 4. Hand piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
  - 5. Hand piles shall be placed within unit boundaries, however, outside of wildlife buffers, roadways, turnouts, shoulders, or cut banks. No hand piles shall be located in any stream channel, down logs, stumps or within ten (10) feet of any other pile or trunk of the nearest reserve tree. No portion of the pile will be under the crown of any living tree. No piles shall be placed adjacent to or within twenty five (25) feet of unit boundaries.
  - 6. Hand piles shall be adequately covered with a minimum cap of five (5) feet by five (5) feet of four (4) millimeter black polyethylene plastic that is large enough to cover 80% of the pile to ensure ignition. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.

- 7. Hand piles would not be constructed on roadways, turnouts, shoulders, or on the cut bank, unless authorized by the Authorized officer.
- 8. Hand piles will be burned within eighteen (18) months of harvest completion.
- 9. Hand piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
- 10. The purchaser shall burn ninety (90) percent of hand piles with ninety (90) percent consumption for satisfactory completion of treatment.
- 11. The Purchaser is required to furnish the fuel and equipment for hand pile burning.
- (d) <u>SD-1f SD-1f PILE, COVER, AND BURN LANDINGS</u> Within twenty (20) feet of the edge of each landing pile, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located off of the driving surface of roads and at least fifteen feet (15) from any Reserve Tree and/or as directed by the Authorized Officer.

Upon completion of landing piling, the Purchaser shall prepare the landing piles for burning by constructing a fireline by hand or machine approximately eighteen (18) inches wide and down to mineral soil around each pile to prevent escaped fire. Landing piles shall be less than sixteen (16) feet in height and width. Cover piles with large enough piece of four (4) millimeter thick black plastic to ensure a dry ignition spot, generally ten (10) foot by ten (10) foot. The Purchaser is required to furnish the covering materials. The timing of this covering work shall be in accordance with instructions from the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.

1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance before ignition of piles.

- 2. Slash includes woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this contract.
- 3. All equipment shall be approved by the Authorized Officer. Piling shall be accomplished using a track mounted hydraulic excavator or equivalent with at least a five (5) tooth brush rake. The excavator shall have a minimum reach of twenty (20) feet. The excavator shall be equipped with a hydraulic thumb or rotating controllable grapple head.
- 4. Landing piles shall be constructed as compactly as possible. There should be an adequate supply of fine fuels located within and under the covered area of the pile to ensure ignition of the larger fuels. Completed piles shall be free of projecting limbs or slash which would interfere with adequate covering of the piles.
- 5. Machine piles shall be adequately covered with a cap of at least ten (10) feet by ten (10) feet of four (4) millimeter black polyethylene plastic. The plastic shall be held in place with woody debris or tied with rope or twine to ensure coverage. Coverage shall be completed when piles are constructed, or as directed by the Authorized Officer.
- 6. Landing piles shall not be placed within fifteen (15) feet of snags, stumps, reserve trees or large woody debris.
- 7. Landing piles will be burned within eighteen (18) months of harvest completion.
- 8. Landing piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
- 9. The Purchaser is required to furnish the fuel and equipment for Landing pile burning.
- (2) <u>SD-2</u> Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop up assistance as required herein, and measures required in Sections 42(F)(1)(SD-1) and 42(F)(3)(SD-4). In accordance with written instruction to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and

patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

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

#### (a) For Igniting and Burning Hand Piles in the Unit:

- 1. One (1) person to supervise crew and equipment operators, and to serve as Purchaser's representative.
- 2. One (1) crew with ten (10) members per crew, including a designated crew foreman. Each crew shall be equipped with fuel, drip torches, shovels, pulaskis, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.
- 5. Ten (10) drip torches, Forester Sealtite, or equivalent.
- 6. Hand ignition with drip torches is required in pile burn units.
- 7. All ignition personnel will be directly supervised by a BLM representative.

#### (b) For Mop-up of Hand Piles in the Unit:

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with

shovels, pulaskis, or other scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.

- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

#### (c) For Igniting and Burning Landing and Machine Piles

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.
- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

#### (d) For Mop-up Landing and Machine Piles

- 1. One (1) person to supervise crew and to serve as Purchaser's representative.
- 2. One (1) crew with six (6) members per crew, including a designated crew foreman. Each crew shall be equipped with

shovels, pulaskis, or scraping tool, one (1) power saw and one (1) backpack pump; one (1) tool for each crew member.

- 3. One (1) tank truck driver.
- 4. One (1) tank truck. Each truck shall have three hundred (300) gallons or more capacity with one thousand (1,000) feet of hose and nozzle(s) acceptable to the Authorized Officer. All hose couplings shall have the standard thread adopted by the State Fire Marshall pursuant to ORS 476.610 as amended. Each truck shall be equipped with a mounted pump conforming to the standards set forth in ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. Truck and tank shall be in good working order and shall be filled with water.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area(s) with the following personal safety equipment: long sleeve natural fabric shirt, full length natural fabric trousers, minimum eight (8)-inch top leather boots, hardhat, and leather gloves. All personnel shall wear long pants and long sleeve shirts, lugsoled leather boots with minimum eight (8)-inch tall uppers that provide ankle support, approved hardhat, and leather gloves. On the day of ignition, clothing shall be of approved aramid fabric, Nomex<sup>TM</sup> or equivalent, and all personnel shall carry an approved fire shelter. Clothing shall be free of diesel fuel oil.

All listed tools and equipment shall be in good usable condition. All power driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power- driven equipment.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop up on each hand pile unit, machine pile, and for landing decks in all units shown on Exhibit S for four hundred fifty (450) hours as directed by the Authorized Officer within a ten (10) day period beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

In the event of a fire escapement, Purchaser's personnel and equipment shall, under supervision of the Authorized Officer, take action to suppress, including control and mop-up, the escaped fire until released from such service by the Government. If it becomes necessary to suppress a fire which escapes from the prescribed fire area for a period beyond midnight of ignition day, then the Government shall, at its option:

- (a) reimburse Purchaser for such additional use of personnel and equipment at wage rates shown in the current Administratively Determined Pay Rates for Western Area and at equipment rates shown in current Oregon-Washington Interagency Fire Fighting Equipment Rental Rates schedule, until the Purchaser is released from such service by the Government, or+
- (b) release the Purchaser from additional suppression work and assume responsibility for suppressing the escaped fire.

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

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

Time is of the essence in complying with this provision. In the event the Purchaser fails to provide personnel and equipment required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in disposing of slash, including but not limited to the wages and other costs of providing federal employees and others as substitute labor force, the cost of providing substitute equipment, and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning and new conditions necessitate additional site preparation work and/or use of additional personnel and equipment to accomplish planned burning, the Purchaser also shall be responsible for such additional costs.

(3) <u>SD-4 Logging Residue Reduction</u>. In addition to the requirements of Secs. 15 and 25 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 Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following logging residue reduction and site preparation measures required by this contract:

- (a) <u>SELECTIVE SLASHING</u> Perform selective slashing in a portion of the unit as shown on Exhibit S before hand pile, hand pile burn treatment:
  - 1. <u>L-4</u> All trees between two (2) inch and six (6) inches D.B.H.O.B. shall be felled following logging as shown on Exhibit S as directed by the Authorized Officer.
- (4) <u>SD-5</u> The Purchaser shall perform logging residue reduction and site preparation work on approximately seventy (70) acres of harvest area located in Harvest Units as shown on Exhibit A.
  - (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Lop and Scatter	\$42.00
Selective Slashing	\$300.00
Hand Pile / Cover	\$325.00
Hand Pile Burn and Mop up	\$42.00
Machine Pile and Cover	\$375.00
Machine Pile Burn and Mop-up	\$28.00
Machine Pile Landing Decks (hr)	\$100.00
Cover/ Burn/ Mop-up Decks	\$56.00

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

Appraised Treatment	Acres	Cost/Acre	Total Cost Per Treatment
Lop and Scatter	46.5	\$42.00	\$1,953.00
Selective Slashing	8	\$300.00	\$2,400.00
Hand Pile / Cover	8	\$325.00	\$2,600.00
Hand Pile Burn and Mop up	8	\$42.00	\$336.00
Machine Pile and Cover	4.5	\$375.00	\$1,687.50
Machine Pile Burn and Mop-up	4.5	\$28.00	\$126.00
Machine Pile Landing Decks (hr)	10.5 hr	\$100 /hr	\$1,050.00
Cover/ Burn/ Mop-up Decks	3	\$56.00	\$168.00
<b>Total Appraised Cost</b>			\$10,320.50

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(F)(4)(SD-5)(a) differs from ten thousand three hundred twenty and 50/100's (\$10,320.50), as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(F)(4)(SD-5)(a).
- (d) Lop and Scatter shall be done in accordance with Section 42(F)(1)(a)(SD-1a), Selective Slashing shall be done in accordance with Section 42 (F)(3)(SD-4)(a), Machine Pile Cover shall be done in accordance 42(F)(1)(b)(SD-1b), Handpile and cover shall be done in accordance with Section 42(F)(1)(c)(SD-1c), Machine Pile Cover Landing Decks shall be done in accordance with Section 42(F)(1)(d)(SD-1f), Burn and Mop-up Hand Piles shall be in accordance with 42(F)(2)(SD-2)(a&b). Burn and Mop-up Machine and Landing Piles shall be in accordance with 42(F)(2)(SD-2)(c&d).

#### (G) LOG EXPORTS

(1) <u>LE-1</u> 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 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

# BEAR CREEK SPECIAL PROVISIONS

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.
- (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

# BEAR CREEK SPECIAL PROVISIONS

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

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

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

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.

# Bear Creek T.S. Seasonal Restriction Matrix ORM07-TS-19-03

<sup>\*</sup> Operations will be suspended if unacceptable damage to residual trees occur.

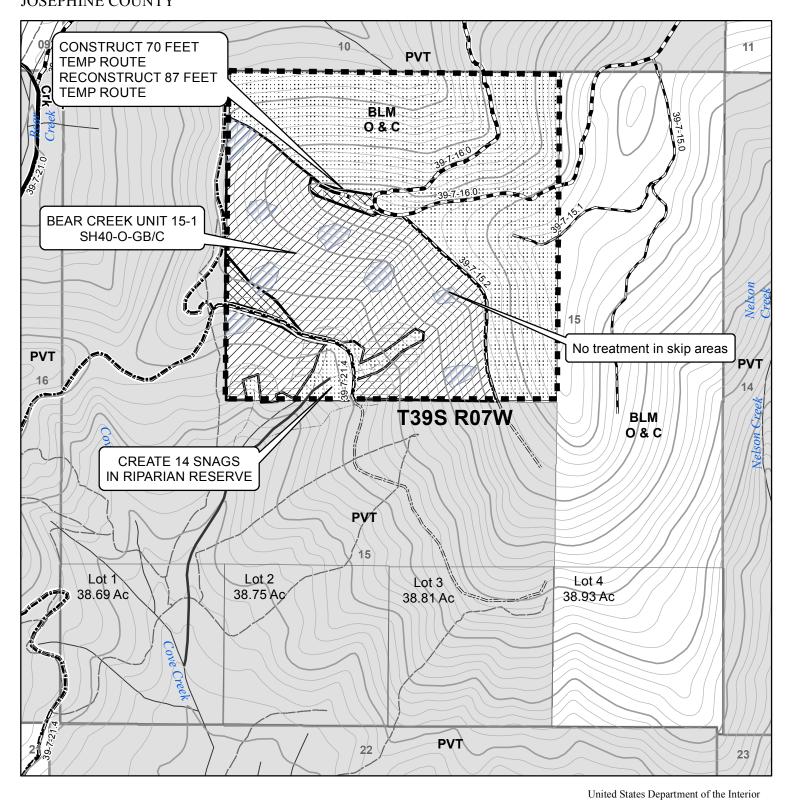
precipitation events. Hauling on natural surface or hydrologically-connected rocked roads would not resume for a minimum of 48 hours following any storm event that results in ½ inch or displacement such as rutting or ribbons; continuous mud splash or tire slide; fines being pumped through road surfacing from the subgrade and resulting in a layer of surface sludge; road drainage causing a visible increase in stream turbidities; or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during Oraclition Haul = Loading, hauling, and certain non-emergency road maintenance activities (including blading of aggregate roads, rocking, and cross drain installation) would not occur on hydrologically-connected rocked or natural surface roads when water is flowing in the ditchlines or during any conditions that would result in any of the following: surface more precipitation within a 24 hour period, and until road surface is sufficiently dry to prevent any of the above conditions from reoccurring.

moisture at a depth of 4-6 inches is wet enough to maintain form when compressed, or when soil moisture at the surface would readily displace, causing ribbons and ruts along equipment Condition Ground-based harvesting and Temporary Route work = Ground-based harvesting & yarding, temporary route work, and rehabilitation activities would not occur when soil tracks. These conditions are generally found when soil moisture at a depth of 4-10 inches is between 15-25% depending on soil type.

		Jan		Feb		Mar	Apr		Мау	Jun	ſ	n In		Aug		Sep		Oct		Nov		Dec
Sale Area	Activity	1 15	. 51	1 1.	5 1	15 1 15	1	15 1	1 15	1 15	1	15	1	2	15	1 15	15	1 15 1 15	. 5	1 1	5 1	1 15
	Manual Falling and Bucking*			H										П			Н				$\vdash$	
	Ground-based Harvesting &																					
Ground-based & Yarding	Yarding																					
Cable Yard	Cable Yarding*																					
harvesting in Bear	harvesting in Bear Loading and Hauling																					
Creek	Temp. Route Construction, All																					
	Rehabilitation Activities &																					
	Road Maintenance**																					

<sup>\*\*</sup> In-stream work periods for culvert cleaning are June 15th- September 15th

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-19-03 T. 39 S., R. 7 W., SEC. 15 WILL. MER. BEAR CREEK TIMBER SALE JOSEPHINE COUNTY TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 1 OF 2



1 inch = 767 feet

1,725

2,300

Feet

40 FOOT CONTOUR INTERVAL

Map created 7/26/18



Bureau of Land Management

Medford District Office

3040 Biddle Road Medford, OR 97504

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

1,150

287.5 575

U.S.D.I BLM MEDFORD DISTRICT SALE NO. ORM07-TS-19-03 T. 39 S., R. 7 W., SEC. 15 WILL. MER. BEAR CREEK TIMBER SALE JOSEPHINE COUNTY

TIMBER SALE CONTRACT MAP EXHIBIT A PAGE 2 OF 2

# Legend

Proposed Temp Routes	Streams
□ New Construction	Intermittent
■ Reconstruction	Perennial
Rocked Road	■ ■ I Contract Area Boundary
Paved Road	——— 200' Index Contours
==== Natural Surface Road	40' Intermediate Contours  Reserve Area
Not Known	
Logging Systems	Township and Range
Cable	Sections
Tractor	Bureau of Land Management
Skip	Private Individual or Company

## **SUMMARY**

SH40-O-T/C	SELECTION HARVEST 40% CANAPY, ORANGE MARK, CABLE AND GROUND BASED YARD (UNIT 15-1)	70 ACRES
	TOTAL TIMBER SALE UNIT AREA	70 ACRES
	RESERVE AREA	90 ACRES
	TOTAL CONTRACT AREA	160 ACRES

## **LEGEND**

UNIT	ACRES	PRESCRIPTION	Paint	Logging
CIVIT	ACILLO	T INESCRIT TION	Color	System
15-1	70	SH 40%	Orange	GB\C

**GB=Ground Based** 

C = Cable

Orange= Reserve tree mark

SH 40% = Selection Harvest Thin to 40% canopy cover.

All Acres are computed by GPS Traverse

Boundaries of havest units are posted and painted in orange.



1 inch = 1,000 feet

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

40 FOOT CONTOUR INTERVAL Map created 7/26/18

United States Department of the Interior
Bureau of Land Management
Medford District Office
AL
3040 Biddle Road
Medford, OR 97504
(541) 618-2200





# United States Department of the Interior Bureau of Land Management

# **Timber Appraisal**

Sale Name: Bear Creek

**BLM District:** Medford DO

Contract #: ORM07-TS-2019.0003

Sale Type:

Advertised

Sale Date:

Friday, October 26, 2018

Unit of Measure:

16' MBF

**Contract Term:** 

24 months

Contract Mechanism: 5450-3

Sale of Timber - Lump Sum

## Content

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

**Prepared By:** Caulfield, David J **Approved By:** Caulfield, David J

# **Legal Description of Contract Area**

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Josephine	395	7W	15	W1/2NE1/4, E1/2NW1/4	Willamette

# **Species Totals**

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	898.0	973.0	998.0	15,671	143	4,510
Ponderosa Pine	20.0	20.0	23.0	313	54	111
Sugar Pine	10.0	10.0	11.0	218	19	77
Incense-cedar	1.0	1.0	1.0	30	0	19
Totals	929.0	1,004.0	1,033.0	16,232	216	4,717

# **Cutting Area Acres**

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	70.0	0.0	70.0	13.3

	<b>Logging Costs</b>		Tract Features	
Stump to Truck		\$218,369.50	Quadratic Mean DBH	15.3 in
Transportation		\$75,992.76	Average GM Log	62 bf
Road Construction		\$26,734.58	Average Volume per Acre	13.3 mbf
Maintenance/Rock	wear	\$8,959.98	Recovery	90 %
Road Use		\$1,276.00	Net MBF volume:	
Other Allowances		\$13,205.70	Green 9	29.0 mbf
Total:		\$344,538.52	Salvage	0 mbf
Total Logging Cost	ner MRE	\$370.87	Export	0 mbf
Total Logging Cost	per wibi.	<b>4370.07</b>	<b>Ground Base Logging:</b>	
			Percent of Sale Volume	4 %
Ut	ilization Cent	ers	Average Yarding Slope	0 %
Location	Distance	% of Net Volume	Average Yarding Distance	0 ft
Glendale, Oregon	67.0 miles	100 %	Cable Logging:	
			Percent of Sale Volume	96 %
	Profit & Risk		Average Yarding Slope	0 %
			<b>Average Yarding Distance</b>	0 ft
Basic Profit & Risk		9 %	Aerial Logging:	
Additional Risk		3 %	Percent of Sale Volume	0 %
Total Profit & Risk		12 %	Average Yarding Slope	0 %
			<b>Average Yarding Distance</b>	0 ft
			Cruico	

Cruise Completed	August 2018
Cruised By	Caulfield, Cannon
Cruise Method	
3P Douglas fir. BLM100% all oth	er species.

# **Stumpage Computation**

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF		Appraised Value
Douglas Fir	4,510	898.0	\$544.95	\$65.39	\$370.87	\$0.00	\$108.70		\$97,612.60
Ponderosa Pine	111	20.0	\$392.25	\$47.07	\$370.87	\$0.00	\$39.30	*	\$786.00
Sugar Pine	77	10.0	\$418.40	\$50.21	\$370.87	\$0.00	\$41.90	*	\$419.00
Incense- cedar	19	1.0	\$534.40	\$64.13	\$370.87	\$0.00	\$99.40		\$99.40
Totals	4,717	929.0							\$98,917.00

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

# Percent of Volume By Log Grade

Consider	N - 4 0 0	N 0	6 1 1 5 5 1 1			TRACE ON	
Species	No. 1 & 2	No. 3	Special Mill	NO. Z	No. 3	No. 4	Camp Run
	Peeler	Peeler		Sawmill	Sawmill	Sawmill	
Douglas Fir				54.0 %	41.0 %	5.0 %	
Species	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Camp Run
	Sawmill	Sawmill	Sawmill	Sawmill	Sawmill	Sawmill	
Ponderosa Pine				55.0 %	41.0 %	4.0 %	
Species	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Camp Run
	Sawmill	Sawmill	Sawmill	Sawmill	Sawmili	Sawmill	
Sugar Pine				44.0 %	48.0 %	8.0 %	
Species	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	Camp Run
11	Sawmill	Sawmill	Sawmill	Sawmill	Sawmill	Sawmill	
Incense-cedar				11.0 %	45.0 %	44.0 %	

Unit: 1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	898.0	973.0	998.0	4,510
Ponderosa Pine	20.0	20.0	23.0	111
Sugar Pine	10.0	10.0	11.0	77
Incense-cedar	1.0	1.0	1.0	19
Totals:	929.0	1,004.0	1,033.0	4,717

Net	Volume	/Acre:	133	MRF
1466	V CIGITIC/	mei e.	40.0	IVIDI

Regeneration Harvest	0.0
Partial Cut	70.0
Right of Way	0.0
Total Acres:	70.0

Total Stump To Truck	Net Volume	\$/MBF
\$218,369.50	929.0	\$235.06

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	961.0	\$219.70	\$211,131.70	
Track Skidder	GM MBF	43.0	\$143.15	\$6,155.45	
Subtotal				\$217,287.15	

# **Additional Costs**

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Directional Falling	Total	1.0	\$1,082.35	\$1,082.35	Added cost to directional fall 92 mbf
Subtotal				\$1,082.35	

# **Additional Moves**

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	<b>Total Cost</b>	Remarks
Subtota	ı			\$0.00	

# **Comments:**

See logging plan for yarding details.

Total	Net Volume	\$/MBF
\$75,992.76	929.0	\$81.80

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	<b>Total Cost</b>	% of Sale Volume
Glendale, Oregon	67.0	All Speccies	GM MBF	1,004.0	\$75.69	\$75,992.76	100 %

# **Engineering Allowances**

Total	Net Volume	\$/MBF
\$36,970.56	929.0	\$39.80

Cost Item	Total Cost	
Road Construction:		\$26,734.58
Road Maintenance/Rockwear:		\$8,959.98
Road Use Fees:		\$1,276.00

Total	Net Volume	\$/MBF
\$13,205.70	929.0	\$14.21

# **Environmental Protection**

Cost item	Tota	l Cost
Waterbar Corridors		\$218.40
Barricade Skid		\$50.00
Seeding and Mulching		\$250.80
Snag Creation		\$250.00
Ripping		\$415.00
	Subtotal	\$1,184.20

# Logging

Cost item	Total Cost
Landing Construction	\$1,050.00
Subtotal	\$1,050.00

# Slash Disposal & Site Prep

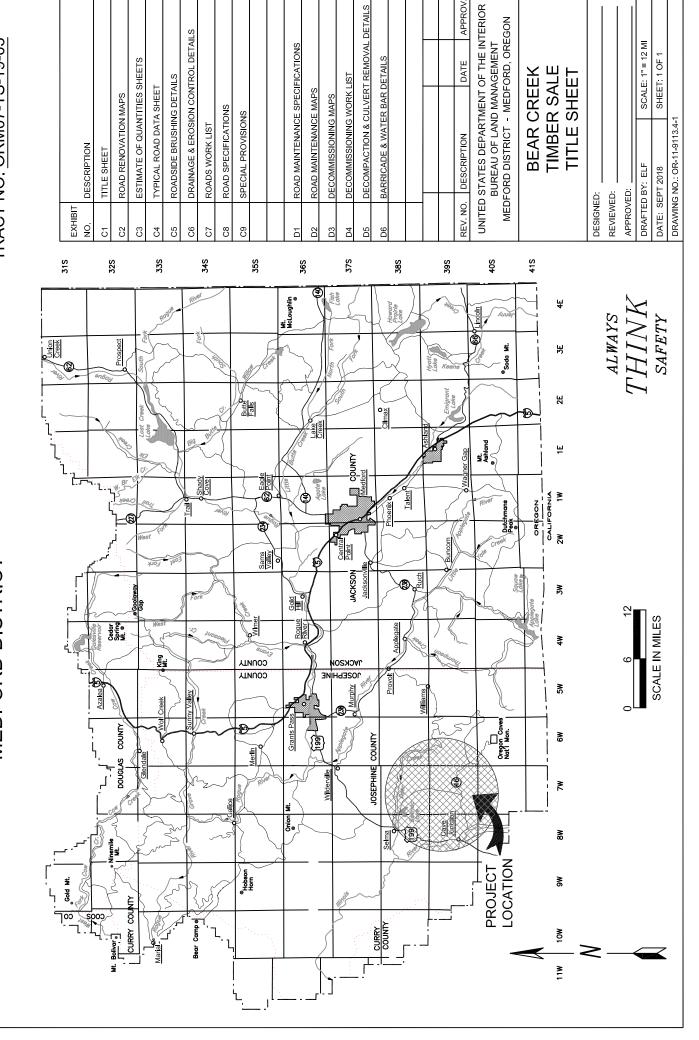
Cost item		Total Cost
Machine Pile Burn and Mop-up		\$126.00
Handpile Burn and Mop-up		\$336.00
Lop and Scatter		\$2,604.00
Cover/Burn/Mop-up Decks		\$168.00
Machine Pile Landing Decks		\$1,050.00
Selective Slashing		\$2,400.00
Handpile and Cover		\$2,600.00
Machine Pile and Cover		\$1,687.50
	Subto	otal \$10,971.50

# **Comments:**

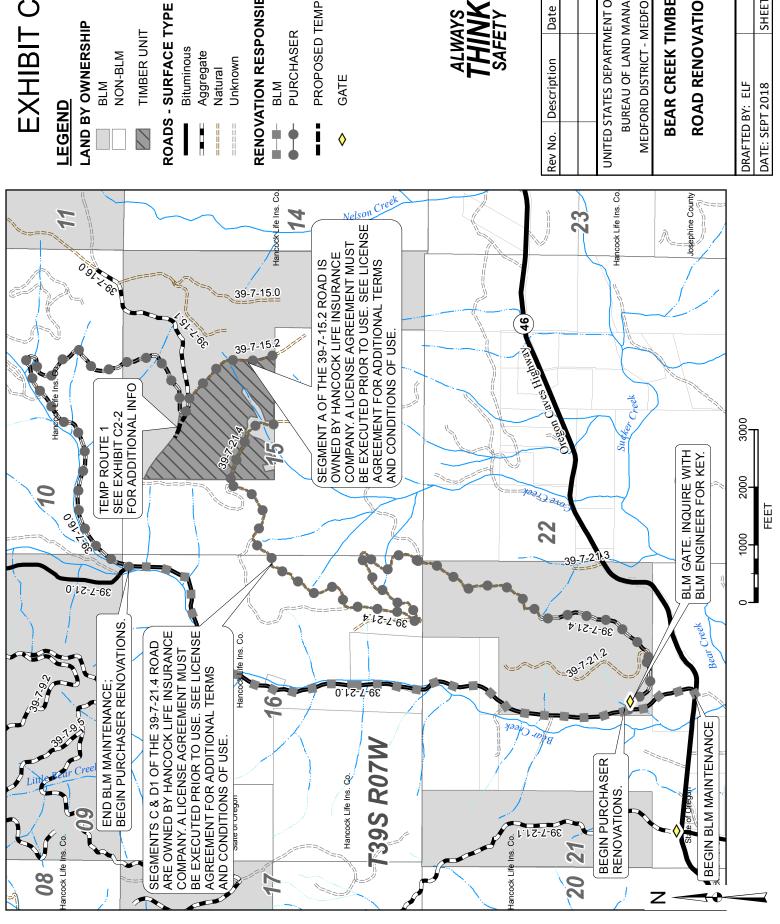
Snag creation girdle 14 trees. Machine Pile Landing Decks includes landing Clean-up

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

**TRACT NO. ORM07-TS-19-03** BEAR CREEK TIMBER SALE EXHIBIT C1



APPROV



# **EXHIBIT C2-1**

Bituminous

Aggregate Natural

Unknown

# RENOVATION RESPONSIBILITY

PURCHASER

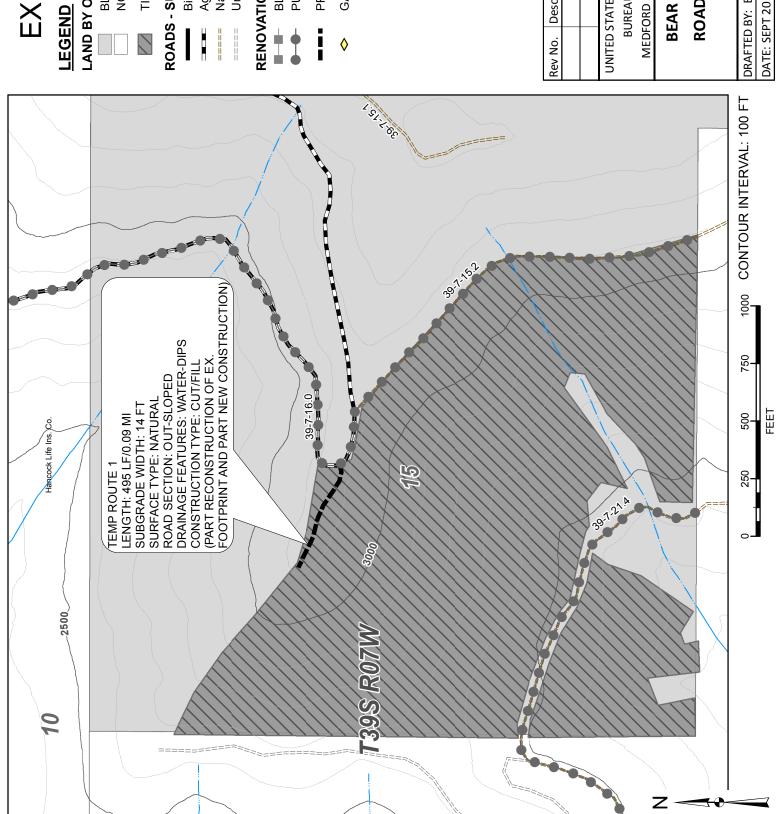
PROPOSED TEMP ROUTE

GATE



# ROAD RENOVATION MAP **BEAR CREEK TIMBER SALE**

	SHEET: 1 OF 2
DRAFTED BY: ELF	DATE: SEPT 2018



# **EXHIBIT C2-2**

# LAND BY OWNERSHIP



BLM NON-BLM

TIMBER UNIT

**ROADS - SURFACE TYPE** 

Bituminous Aggregate Natural

Unknown

# RENOVATION RESPONSIBILITY

PURCHASER

PROPOSED TEMP ROUTE

GATE



Approval		INTERIOR	ENT	REGON
Date		IENT OF THE	MANAGEM	MEDFORD, C
Rev No. Description		UNITED STATES DEPARTMENT OF THE INTERIOR	BUREAU OF LAND MANAGEMENT	MEDFORD DISTRICT - MEDFORD, OREGON
Rev No.		UNITED S	BL	MEDE

# **BEAR CREEK TIMBER SALE** ROAD RENOVATION MAP

	SHEET: 2 OF 2
DRAFTED BY: ELF	DATE: SEPT 2018

# **EXHIBIT C3-1**

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39-7-15.2 (A)	00.00	0.34	0.34									0.34			2			0 9	2	34		2						
39-7-21.2 (A)	00:00	0.21	0.21									0.21	0.21						0.5	21								
39-7-21.4 (A)	0.00	0.42	0.42									0.42	0.42						0.	42								
39-7-21.4 (B-D1)	0.42	2.83	2.41		1400							2.41	0.20	0.36	8			0 9	2 2	41		- 2						
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# RENOVATION NOTES

1. ROADS LISTED FOR SURFACE RESHAPING SHALL CONSIST OF BLADING, WATERING, & ROLLING PER CONTRACT SPECIFICATIONS & DRAWINGS.

2. DITCH/CULVERT CLEANING SHALL CONSIST OF DITCH BLADING AND RESHAPING, CLEARING DEBRIS, VEGETATION, SEDIMENT, ROCK AND ALL OTHER MATERIAL HINDERING THE FLOW OF RUNOFF PER CONTRACT SPECIFICATIONS & DRAWINGS.

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

# AGGREGATE GRADATION REQUIREMENTS

	RADATION	С,С-1 Б,Б-1 1-1
ITEM 1200	SIZE	1 1/2 inch 1 inch 3/4 inch
000	GRADATION	A,C,F B,D,G,H
ITEM 1000	SIZE	3 inch 2 inch
	GRADATION	
ITEM 900	SIZE	4 inch 3 inch 2 inch 1 1/2 inch

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

# BEAR CREEK TIMBER SALE ESTIMATE OF QUANTITIES

DRAFTED BY: ELF	SCALE: NONE
DATE: SEPT 2018	SHEET: 1 OF 2
DRAWING NO.: OR-11-9113.4-1	1

THINK SAFETY

ALWAYS

# EXHIBIT C3-2 EXHIBIT D

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	SUBGRADE RIPPING		STA		5										5		N
,	BARRICADE(S)		EA														SCRIPTIC
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	SLOPE PROTECTION (RIPRAP)	1400	ζ														PER
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	ROAD	SPECIFICATION NO.	UNITS	TEMPORARY ROUTES	Temp Route 1										TEMP ROUTE TOTALS	CONSTRUCTION NOTES	1. ALL TEMP ROUTE SUBGRADE OR RUNNING SURFACE

- 1. ALL TEMP ROUTE SUBGRADE OR RUNNING SURFACE WIDTHS SHALL NOT EXCEED 14 FEET.
- 2. TURNOUTS ARE AUTHORIZED BUT SHALL BE CONSTRUCTED AT THE AUTHORIZED OFFICERS DISCRETION AND KEPT TO A MINIMUM QUANTITY TO AVOID UNNECESSARY DISTURBANCE.
- 3. STA's = 100 LINEAR FEET.
- 4. TURNAROUND AREAS SHALL NOT EXCEED 0.25 ACRES OR 60 FOOT RADIUS.

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

- 1. ALL TEMP ROUTE ARE TO BE DECOMMISSIONED PER EXHIBIT D SPECIFICATIONS AND DETAILS.
- 2. DECOMMISSIONING (LONG-TERM) SHALL INCLUDE RIPPING, WATER BARRING, SEEDING & MULCHING, AND BARRICADING.
- 3. DECOMMISSIONING (PARTIAL) SHALL INCLUDE PARTIAL RIPPING, WATER BARRING, AND SEEDING & MULCHING.

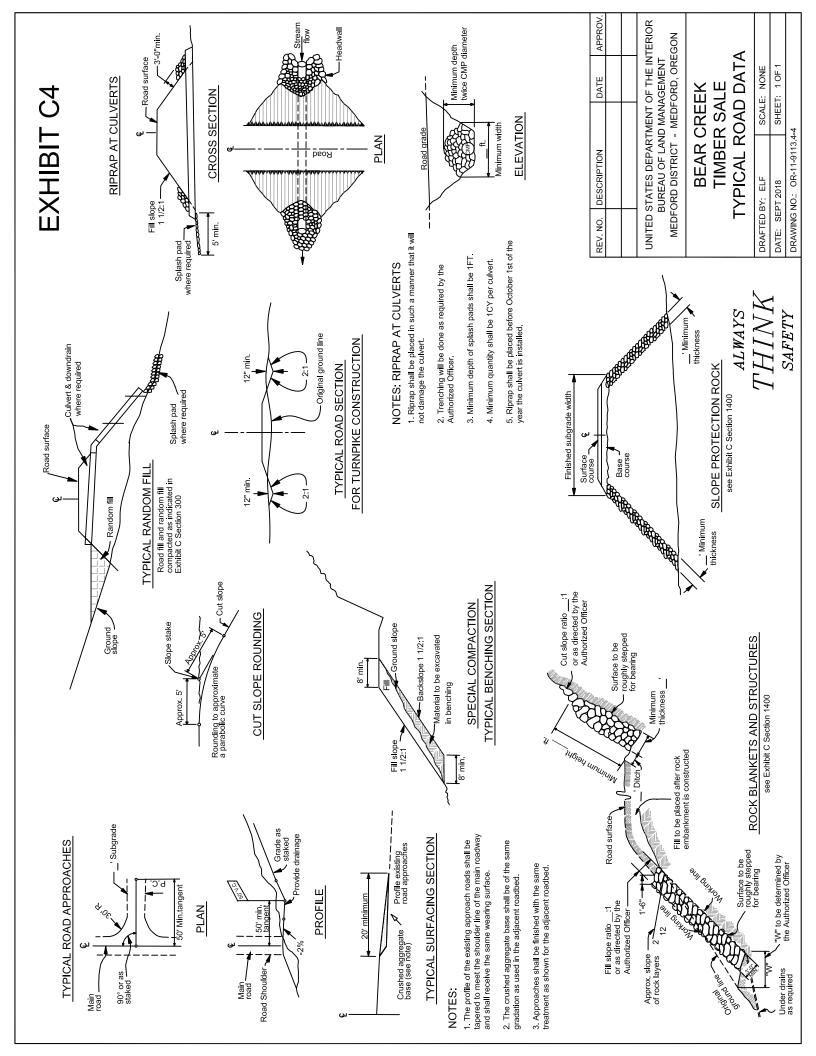
REV. NO. DESCRIPTION DATE APPROVAL		UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON
REV. NO.		UNITED

# BEAR CREEK TIMBER SALE ESTIMATE OF QUANTITIES

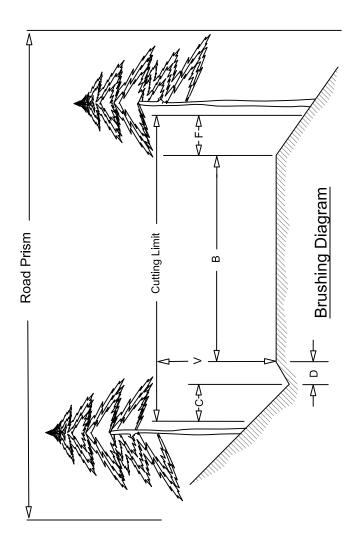
DRAFTED BY: ELF	SCALE: NONE
DATE: SEPT 2018	SHEET: 2 OF 2
DRAWING NO.: OR-11-9113.4-1	

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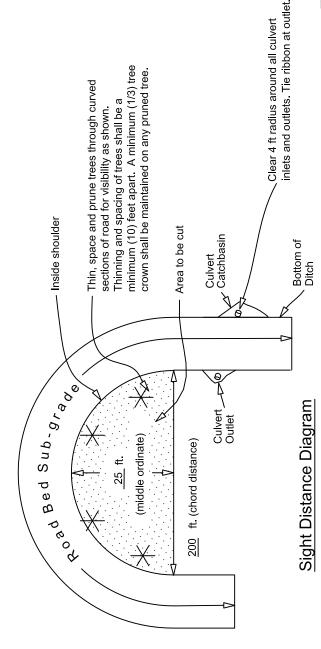
# **EXHIBIT C5**



Cutting Limit = C + D + B + F

- B = Road Bed Subgrade (includes turnouts)
- Cut all vegetation to maximum height of 1" flush with the running surface.
- C =  $\frac{6 \text{ ft}}{1}$  Distance to be brushed on cut slope beyond centerline of ditch. Cut all vegetation to maximum height of 4".
- D = Centerline of ditch to inside shoulder. Cut all vegetation to maximum height of 1".
- $F = \underline{6}$  ft Distance to be brushed on fill slope beyond outside shoulder Cut all vegetation to maximum height of 4".
- V = 14 ft Height of vertical cutting limit



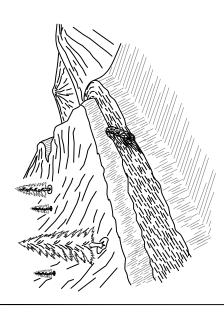


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# ROADSIDE BRUSHING DETAIL **TIMBER SALE** BEAR CREEK

DRAFTED BY: ELF	SCALE: NONE
DATE: SEPT 2018	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-4	4.

SAFETY



# LOG BARRICADE



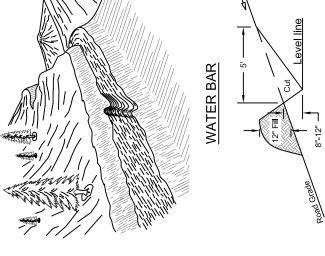
- 1. Log barricade shall be constructed as shown
- 2. Exact location is listed in Roads Work List.
- All barricades shall be skewed 30 degrees.
- The length shall be sufficient to extend from the cut bank to the fill slope.
- 5. The minimum small end diameter of the log barricade shall be 24".

# WATER BAR SPACING\* BY FROSION CLASS^

NON CLASS	MOT	FEET	400	300	200	150	100	99
WATER DAR SPACING OF ERUSION CLASS	MODERATE	FEET	300	200	150	100	75	50
AR SPACIN	HIGH	FEET	200	150	100	75	50	20
שאוואי	ROAD GRADE	%	2-5	6-10	11-15	16-20	21-35	35+
>								

- Spacing is determined by slope distance and is the maximum allowed for the grade.
- High: Granite, sandstone, andesite porphyry, glacial or alluvial deposits, soft matrix conglomerate, volcanic ash, and The erosion classes include the following rock types:
- Moderate: Basalt, andesite, quartzite, hard matrix
- conglomerate, and rhyolite.

  Low: Metasediments, metavolcanics, and hard shale.



- Water bars shall be constructed as shown above.
  - 2. Exact location will be flagged by the Authorized Officer prior to construction

will be securely placed at outlet a minimum of 10 LF wide 5. Armor outlet of water dip on fill slope. Riprap material

by 8 LF down fill slope by 1 FT in depth. Key-in toe of

The length shall be sufficient to extend from the cut

bank to the fill slope.

All water dips shall be skewed 30 degrees. Exact location is listed in Roads Work List.

Water dips shall be constructed as shown above.

¶ 30, ↓

→ 30' → 15' 15'

Riprap apron for stability.

6. Seed and mulch fill slope upon completion to stabilize side-cast material. See Slope Protection specifications.

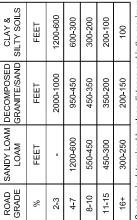
- 3. All water bars shall be skewed 30 degrees.
- 4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed as shown above.

WITH CLASS 2 RIPRAP MATERIAL AT OUTLET. (3 CYS)

**WATER DIP** 

ARMOR FILL SLOPE

**EXHIBIT** C6-1



Spacing is determined by slope distance and is the maximum allowed for the grade.

# SKEW DIAGRAM

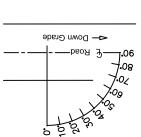
WATER DIP SPACING\*

APPROV

DATE

DESCRIPTION

REV. NO.

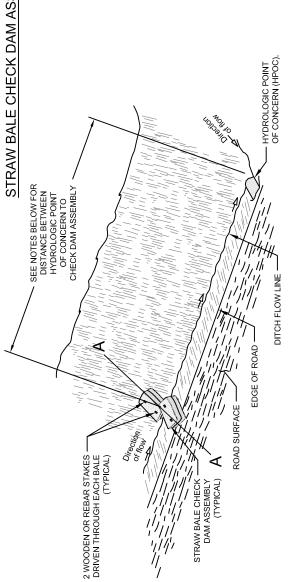


UNITED STATES DEPARTMENT OF THE INTERIOR MEDFORD DISTRICT - MEDFORD, OREGON BUREAU OF LAND MANAGEMENT 뭐 점 범 4LWAYS SAFETY

RAFTED BY: ELF	SCALE: NONE	NONE
ATE: SEPT 2018	SHEET: 1 OF 2	1 OF 2
RAWING NO: OR-11-9113.4-4	4	

# **EXHIBIT C6-2**

# STRAW BALE CHECK DAM ASSEMBLY



EX. ROAD SURFACE

DITCH LINE EXTENTS

STAKES DRIVEN
THROUGH EACH BALE
(TYPICAL) 2 WOODEN OR REBAR

EX. CUT BANK

PLAN

# All straw bales will be from a weed free certified source.

2. Hydrologic Points of Concern (HPOC) are natural drainage features (ie. streams, creeks, draws) that intersect with existing or proposed roads.

**SECTION A-A** 

NO GAPS BELOW CHECK DAM ASSEMBLY, ENSURING PROPER SEDIMENT FILTRATION

- (Coho) waterway, install check dam assembly, or other approved BMP, in road ditch 3. If the HPOC is a bridge spanning across a noted or listed critical fish habitat ine 150 LF up-grade from top of creek bank or edge of bridge.
- 4. If the HPOC is a draw culvert, install check dam assembly, or other approved BMP, in road ditch line 100 LF up-grade from inlet of culvert.

# **INSTALLATION NOTES**

- 1. Do not construct the check dam assembly more than one bale high.
- 2. Bales shall be placed tightly together and snug to the ground to ensure no gaps between bales or underneath the assembly.
- wooden or rebar stakes driven through the bales. 3. Securely anchor the bales in place with two Drive the stakes in the second bale toward the together. Ensure stakes are driven 12 inches previously laid bale to force the bales tightly minimum into the ground.
- the terrain is relatively flat, less than 2% ditch line 4. The assemblies do not need to be anchored if

# INSPECTION/MAINTENANCE NOTES:

- 1. Inspect each assembly before, during, and after each rain event.
- 2. Repair and/or replace damaged assemblies or decomposed bales promptly. Replacement bales shall be in good condition to ensure sediment trapping.
- 3. Trapped sediment shall be removed when it reaches 6-8 inches in depth.
- stable area outside of wetlands, riparian reserves, 4. Sediment shall be removed and placed in a floodplains, and waters of the State.

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# CONTROL INSTALLATION **DRAINAGE & EROSION TIMBER SALE BEAR CREEK**

DRAFTED BY: ELF	SCALE: NONE	NONE
DATE: SEPT 2018	SHEET: 2 OF 2	2 OF 2
DRAWING NO: 0R-11-9113.4-4	4	

THINK

ALWAYS

# Exhibit C7

Sale Name: Bear Creek T.S.

Page 1 of 4

# **Roads Work List**

# **Definitions:**

ABC = Aggregate Base Course HDPE Pipe = High Density Polyethylene Pipe

BST = Bituminous MP = Mile Post

CL = Center Line NAT = Natural or Native Surface

CMP = Corrugated Metal Pipe PRR= Pit Run Rock

CY = Cubic Yard Pvt = Private (Industry or Citizen)

GRR = Grid Rolled Rock Seg = Segment

# **Existing Road Renovation**

The existing road renovation work list consists of road work to be performed by the Purchaser's Representative and/or Contractor **prior** to timber hauling per Section 42(B)(2) of the contract Special Provisions. All road work shall comply with the contract Special Provisions, Specifications, and Exhibits.

## 39-7-16.0 Road (A-B) – East Fork Bear Creek Road

<u>39-7-16.0 l</u>	Road (A-B) – East Fork Bear Creek Road
ASC - Sub	o: 14Ft – Ditch: 3Ft – X-Sect: Crowned
$\underline{MP}$	<u>Description</u>
0.00	Jct w/ 39-7-21.0 Road. Begin road renovation which includes reshaping road surface
	(blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines;
	clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts;
	and roadside brushing and chipping.
0.03	Existing CMP
0.15	Existing CMP
0.27	Existing CMP
0.47	Existing CMP. Hydrologic Point of Concern: Install check dams, or other approved BMP's,
	per contract specifications and Exhibit C6-2.
0.56	Existing CMP
0.84	Existing CMP. Hydrologic Point of Concern: Install check dams, or other approved BMP's,
	per contract specifications and Exhibit C6-2.
0.90	Existing CMP. Hydrologic Point of Concern: Install check dams, or other approved BMP's,
	per contract specifications and Exhibit C6-2.
0.99	Waste disposal site at turnout area on right. Place waste material on stable area well off of
	road surface and outside of turnout area so not to impede drivability of traffic.
1.12	Existing CMP
1.39	Existing CMP
1.63	Unit boundary on right.
1.65	Jct w/ Temp Route 1 on right. See Exhibit C2-2 for Temp Route map and specifications.
	· · · · · · · · · · · · · · · · · · ·

# 39-7-15.2 Road (A) – Cove Rdg

1.66

1.70

## NAT – Sub: 16Ft – Ditch: 0Ft – X-Sect: Out-sloped

MP	<u>Description</u>
0.00	Jct w/ 39-7-16.0 Road. Begin road renovation which includes reshaping road surface
	(blading) to road specifications; reconstruct existing water dips; and roadside brushing and
	chipping. Unit boundary on right.

road surface and outside of turnout area so not to impede drivability of traffic.

Waste disposal site at turnout area on right. Place waste material on stable area well off of

Jct w/39-7-15.2 Road on right. Unit continues along the -15.2 Rd. End road renovation.

0.14 Reconstruct existing water dip and armor fill slope per specifications and details on Exhibit C6-1. Apply seed and mulch to fill slope area to stabilize side cast material.

# Exhibit C7

Sale Name: Bear Creek T.S. Page **2** of **4** 

- 0.21 Reconstruct existing water dip and armor fill slope per specifications and details on Exhibit C6-1. Apply seed and mulch to fill slope area to stabilize side cast material.
- 0.29 Remove 5 CY of cut-bank slump material and debris. End haul material to the waste disposal site located on the 39-7-16.0 Road at mile post 1.66. Place waste material on stable area well off of road surface and outside of turnaround/landing area so not to impede drivability of traffic
- Unit boundary on right. End road renovation.

# 39-7-21.2 Road (A) – Bear Caves Ridge A

# ASC – Sub: 14Ft – Ditch: 3Ft – X-Sect: Crowned

MP	Description

- 0.00 Jct w/ 39-7-21.0 Road. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping.
- 0.01 Existing CMP
- 0.03 Existing BLM gate.
- 0.07 Existing CMP
- 0.19 Existing CMP
- 0.21 Jct w/ 39-7-21.4 Road on right. End road renovation.

# 39-7-21.4 Road (A) – Bear Caves Ridge B

# ASC – Sub: 14Ft – Ditch: 3Ft – X-Sect: Crowned

# MP Description

- 0.00 Jct w/ 39-7-21.20 Road. Begin road renovation which includes reshaping road surface (blading, watering, and rolling) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping.
- 0.01 Existing CMP
- 0.04 Existing CMP
- 0.12 Existing CMP
- 0.23 Existing CMP
- 0.25 Waste disposal site on right at turnout area. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
- 0.32 Existing CMP
- 0.41 Existing CMP
- 0.42 End Segment A and ASC renovation.

## <u>39-7-21.4 Road (B-D1) – Bear Caves Ridge B</u>

## NAT – Sub: 17Ft – Ditch: 0Ft – X-Sect: In-Sloped & Out-Sloped

## MP Description

- O.42 Continue road renovation which includes reshaping road surface (blading) to road specifications; clearing and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; reconstruct existing water dips; and roadside brushing and chipping.
- 0.51 Existing CMP
- 0.63 Waste disposal site on right at turnout area. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
- 0.78 Existing CMP
- 0.83 Existing CMP
- 0.84 Existing CMP
- 0.86 Existing CMP

Sale Name: Bear Creek T.S. Page **3** of **4** 

1.02	Jct w/ Pvt Spur Road on right. Begin John Hancock Life Insurance Company road
	ownership. Refer to executed License Agreement for additional terms and conditions of use.
1.15	Existing sag in road with a lead-out ditch on right. Clean/clear debris from existing lead-out
	ditch to ensure drainage flows away from road.
1.20	Existing sag in road. Construct lead-out ditch to right.
1.25	Waste disposal site on left at turnout area. Place waste material on stable area well off of
	road surface and outside of turnout area so not to impede drivability of traffic.
1.62	Jct w/ Pvt Spur on left.
1.66	Waste disposal site on right at turnout/landing area. Place waste material on stable area well
	off of road surface and outside of turnout/landing area so not to impede drivability of traffic.
1.84	Jct w/ Pvt Spur on left.
1.86	Remove 3 CY of cut-bank slump material and debris.
1.95	Road narrows. Begin heavy blading/road widening of running surface to road specifications.
2.31	Jct w/ Pvt Spur on left. End heavy blading/road widening of running surface. Waste disposal
	site on left at turnout/landing area. Place waste material on stable area well off of road
	surface and outside of turnout/landing area so not to impede drivability of traffic.
2.54	Jct w/ Pvt Spur on left. Heavy blading required at road junction.
2.56	Unit boundary on left and right.
2.62	Reconstruct existing water dip and armor fill slope per specifications and details on Exhibit
	C6-1.
2.68	Reconstruct existing water dip and armor fill slope per specifications and details on Exhibit
	C6-1.
2.72	Unit boundary on right.
2.73	Existing HDPE pipe
2.75	Remove 5 CY of cut-bank slump material and debris.
2.79	Existing HDPE pipe
2.83	Unit boundary on left. End road renovation.

Sale Name: Bear Creek T.S.

Page 4 of 4

<u>Temporary Routes</u>
All Temporary Routes are NAT surface, unless noted otherwise. Subgrade width shall not exceed 14 feet.

### Temp Route 1

STA	Description
0+00	Jct w/ 39-7-16.0 Road. Begin temp route reconstruction. See Exhibit C2-3 for map.
1+80	Construct water dip per specifications and details on Exhibit C6-1 with the exception of
	armoring the fill slope.
2+67	End reconstruction and begin new construction.
3+90	Construct water dip per specifications and details on Exhibit C6-1 with the exception of
	armoring the fill slope.
4+95	End temp route construction. Construct truck turnaround area; 60FT radius.

Sale Name: Bear Creek T.S.

Page 1 of 18

### **ROAD RENOVATION AND IMPROVEMENT SPECIFICATIONS**

### TABLE OF CONTENTS

SECTION	DESCRIPTION
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
500	Renovation and Improvements of Existing Roads
600	Watering
1400	Slope Protection
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing

Sale Name: Bear Creek T.S.

Page 2 of 18

### **GENERAL – 100**

### 101 - Prework Conference(s):

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

The purpose will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractor(s).

### 102 - Definitions:

<u>AASHTO</u> - American Association of State Highway and Transportation Officials. Current editions of tests and specifications.

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

**BLM** - Bureau of Land Management

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

<u>Burst Strength</u> - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

<u>Culvert</u> - 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.

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

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

Sale Name: Bear Creek T.S. Page **3** of **18** 

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

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

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

<u>Grading</u> - 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.

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

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

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

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

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

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

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

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

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

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

<u>Purchaser</u> - The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through

Sale Name: Bear Creek T.S.

Page 4 of 18

their, or its agents, employees, or contractors.

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

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

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

Road Centerline - The longitudinal center of a roadbed.

<u>Road Improvement</u> - 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.

<u>Roadway</u> - 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.

<u>Scale</u> - 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.

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

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

<u>Shoulder</u> - 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.

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

<u>Specific Gravity</u> - 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.

<u>Structures</u> - 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.

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

<u>Surface Course</u> - Top layer of a road structure consisting of finely crushed gravels or asphalt

Sale Name: Bear Creek T.S. Page **5** of **18** 

designed to provide a smooth running surface for traffic load.

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

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

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

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

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

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

<u>Typical Cross Sections</u> - 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.

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

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

<u>Unaged Cloth</u> - Cloth in condition received from the manufacturer or distributor.

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

### 102a - Tests Used in These Specifications:

AASHTO T 11

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.

Quantity of rock finer than No. 200 sieve.

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

Sale Name: Bear Creek T.S. Page 6 of 18

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-inch drop.
AASHTO T 191	<u>Sand Cone.</u> 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 310	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.
ASTM D 4564	Determination of relative density of cohensionless soils.

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

- 103 Compaction equipment shall meet the following requirements:
- 103f <u>Vibratory roller.</u> 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 - <u>Vibratory compactor</u>. Vibratory compactors shall consist of multiple or gang-type

Sale Name: Bear Creek T.S. Page **7** of **18** 

compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.

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

### **CLEARING AND GRUBBING - 200**

- 201 This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- Where clearing limits have not been posted, established by these specifications or shown on the plans, the limits shall extend 4 feet back of the top of the cut slope and 4 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 Subsections 202.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing, unless otherwise authorized.
- 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 in accordance with Subsections 204c and 204e. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections. Such debris will, however, be permitted to remain under waste material from full-bench construction on steep side slopes.
- 206 Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210 and as shown on the plans.
- 206a Notwithstanding Subsections 204 and 205, clearing and grubbing debris resulting from landing construction as shown on Exhibit A, shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites are listed in the Road Work List and/or as determined by the Authorized Officer.
- 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.

Sale Name: Bear Creek T.S.

Page 8 of 18

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**

- 301 -This work shall consist of excavating; overhaul, placement of embankments, backfilling, leveling, ditching, grading, in-sloping, out-sloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the typical cross sections shown on the plans.
- 302 -Excavation shall also consist of the excavation of temp routes, turnaround areas, and landing cut sections, backfilling, leveling, grading, compaction, and other earth moving work necessary for the construction of the temp route in accordance with these specifications and conforming to the lines and typical cross sections shown on the plans.
- 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 materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the temp routes, turnaround areas, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Material used in the construction of embankment sections shall be free of stumps, cull logs, 305a 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 and temp route embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth for each lift.
- 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 18 inches in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact

Sale Name: Bear Creek T.S. Page **9** of **18** 

mass.

- 306a Minimum compaction for each layer embankment and selected excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations, or fraction thereof.
- 306c Compacted materials shall have a uniform density of not less than 85 percent of the maximum density as determined by AASHTO T 99, Method A or Method D.
- The final temp route subgrade and turnaround areas shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations or a fraction of as measured along the center line of the constructed temp route.
- 306g All fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 309 The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than 1 foot and not more than 3 feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.
- 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.
- When heavy clays, muck, clay shale, or other deleterious material for forming the temp route 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 excavated 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 306g. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 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 end dumped and disposed of as directed by the Authorized Officer.
- 321c End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- 322 Selected coarse rock encountered in the excavation shall be conserved for slope protection or

Sale Name: Bear Creek T.S. Page **10** of **18** 

special rock embankment purposes and placed in accordance with the requirements and details of section 1400 of these specifications and as shown on the plans.

- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327 The finished grading shall be approved in writing by the Authorized Officer in segments or for the total road. The Purchaser shall give the Authorized Officer a 3 day notice prior to final inspection of the grading operations and start of spot surfacing operations.
- 328 The Purchaser shall adopt methods and procedures in using explosives, which will prevent damage to adjacent landscape features, and which will minimize scattering rocks and other debris outside the road prism.
- The Purchaser shall establish and be responsible for blasting techniques and shall furnish the Authorized Officer, prior to starting drilling operations, a blasting plan specifying drill-hole diameter, drill-hole spacing, depth of drilling, type of explosive to be used, loading pattern, sequence of firing, the location where the plan is to be used, and other relevant data. Acceptance of the drilling and blasting plan does not relieve the Purchaser of responsibility or liability for the results of the blasting.

### **RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500**

- This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications. This work shall include the removal and disposal of slide material in accordance with these specifications.
- The existing road surface shall be scarified to its full width and to a depth of 6 inches, or more where necessary, to eliminate surface irregularities, bladed, shaped, watered, and rolled to the lines, grades, dimensions, and typical cross sections shown on the plans at the following location(s):

Road No.	From M.P.	To M.P.
39-7-21.4	1.95	2.10

Focks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in

Sale Name: Bear Creek T.S. Page **11** of **18** 

ditches.

- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- Debris from slides/slumps shall be disposed of at approved waste disposal locations as shown on the plans and as directed by the Authorized Officer.
- Existing road surfaces shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f, 103g, and 103i.
- Minimum compaction required shall be 1 hour of continuous rolling for each 3 stations of road, or fraction thereof, as measured along the centerline per layer of material.
- The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that 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. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- 509 The finished grading shall be approved in writing by the Authorized Officer 5 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

### **WATERING - 600**

- 601 This work shall consist of furnishing and applying water required for the compaction of roadbeds, backfills, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- 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.
- 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 road bed.

Sale Name: Bear Creek T.S.

Page 12 of 18

The Purchaser shall secure the necessary water permits and pay all required water fees for use of water sources selected by the Purchaser and approved by the Authorized Officer.

### **SLOPE PROTECTION - 1400**

- This work shall consist of furnishing, hauling, and placing stone materials for slope protection structures and rock aprons in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross-sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the slope protection structure at the purchaser's expense and as directed by the Authorized Officer.
- 1402 Stone material shall consist of hard angular quarry rock and/or coarse stone from roadway excavation of such quality that it will not disintegrate on exposure to water or weathering, and shall be graded in accordance with these specifications.

NOTE: G	uide for i	relation i	between	volume.	size and	weight.	(175)	lbs./cu./	ft.	):
WOIL. U	uiue joi i	i eiuiioni i	Deiween	voiume,	size ana	weight.	1/3	103./Cu./	11.	į

Volume/ Cubic Foot	Average Dimension in inches	Approximate Weight
		in Pounds
12	27.5 x 27.5 x 27.5	2100
6	21.8 x 21.8 x 21.8	1050
4	19.1 x 19.1 x 19.1	700
3	17.3 x 17.3 x 17.3	525
1	12.0 x 12.0 x 12.0	175
2/3	10.5 x 12.0 x 12.0	120
1/2	9.5 x 9.5 x 9.5	88
1/3	8.3 x 8.3 x 8.3	60
1/4	7.6 x 7.6 x 7.6	44
1/6	6.6 x 6.6 x 6.6	30
1/8	6.0 x 6.0 x 6.0	22
1/100	2.6 x 2.6 x 2.6	2

- 1403 Individual machine-placed stones shall vary in weight from 10 to 750 pounds each. Not less than 25 percent of the individual stones shall weigh from 110 to 270 pounds each.
- 1404 The material shall be well graded from the smallest to the maximum size specified. Stones smaller than the specified 10 percent size shall consist of spalls and fine rock fragments so distributed as to provide a stable compact mass.

### 1405 - Rip rap shall conform to the following gradations:

TABLE 1405<sup>1</sup>

Class	Range of Intermediate Dimensions <sup>2</sup> (inches)	Range of Rock Mass <sup>3</sup> (pounds)	% of Rock Equal or Smaller by Count
	6-8	18-42	100
0	5-6	10-18	85
0	2-5	1-10	50
	0-2	0-1	15
	9-15	59-270	100
1	7-11	28-110	85
1	5-8	10-42	50
	3-6	2-18	15
	15-21	270-750	100
2	11-15	110-270	85
2	8-11	42-110	50
	6-8	10-42	15
	21-27	750-1600	100
2	15-19	270-560	85
3	11-14	110-220	50
	8-10	42-81	15
	27-33	1600-2900	100
4	19-23	560-990	85
4	14-17	220-400	50
	9-12	59-140	15

<sup>&</sup>lt;sup>1</sup>Gradation includes spalls and rock fragments to provide a stable, dense mass.

- 1407 Determination of the acceptability of the slope protection material gradation will be through visual inspection and physical measurements by the Authorized Officer.
- 1410 The embankment slopes at the water dip locations specified in the Road Work List and as shown on the plans shall be protected and stabilized by placement of rock materials to form a slope-protection structure conforming to the construction requirements and details of these specifications.

<sup>&</sup>lt;sup>2</sup>The intermediate dimension is the longest straight-line distance across the rock that is perpendicular to the rock's longest axis on the rock face with the largest projection plane. <sup>3</sup>Rock mass is based on a specific gravity of 2.65 (165#/cu.ft.) and 85 percent of the cubic volume as calculated using the intermediate dimension.

Sale Name: Bear Creek T.S.

Page **14** of **18** 

### **EROSION CONTROL – 1700**

- 1701 This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical details shown on the plans.
- 1704 The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
- 1705 The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 21,780 square feet (0.5 acres) after October 15th without prior approval by the Authorized Officer.
- 1706 The surface area of erodible earth material exposed at any one time by excavation or fill shall not exceed 21,780 square feet (0.5 acres) after October 15th without prior approval by the Authorized Officer.
- 1707 Completed and partially completed segments of roads carried over the winter and early spring periods shall be stabilized by seeding and mulching in accordance with Section 1800.
- 1708a Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.
- 1711 The Purchaser shall construct sediment check dams or other approved erosion control devices conforming to the requirements, locations, and details shown on the respective exhibits and on the plans.
- Where shown on the plans, the Purchaser shall provide erosion control measures for newly reconstructed ditches on steep grades which include but is not limited to, dumped stone, jute mesh, sod, check dams consisting of hay bales, and earth or stone. Width of protective lining or dam should extend far enough up the ditch slopes to effectively contain the runoff and prevent erosion and washout at the edges and prevent sediment from reaching live water.

Sale Name: Bear Creek T.S.

Page **15** of **18** 

### **SOIL STABILIZATION - 1800**

- 1801 This work shall consist of seeding and mulching on designated cut, fill, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is required for road acceptance under Section 18 of this contract.
- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, landings, disturbed areas, and disposal sites in accordance with these specifications and as shown on the plans.
- 1803 Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal period (within the same calendar year):

From: August 1st	To: October 15th
------------------	------------------

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Soil Stabilization 1800 the next construction season.

The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1803a The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.
- 1806a Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Section 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Cost Schedule.
- 1808 Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.
- 1808a Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

Sale Name: Bear Creek T.S.

Page **16** of **18** 

- Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.
- 1811 The Purchaser shall furnish and apply to 4.3 acres designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806a, a mixture of grass seed and mulch material at the following rate of application:

Two Stage - Dry:

Native Grass Seed	20 lbs./acre
Mulch (weed free)	2,000 lbs./acre

The above proportion and application rate are subject to adjustment by the Authorized Officer during the application operation.

1812 - The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806a, native grass seed and mulch material at the application rate to be determined by the Authorized Officer based on visual observation of trial applications.

Mulches shall be spread/placed in treatment areas to a depth of 2 inches to allow seed germination or as directed by the Authorized Officer. Treatment area will be covered evenly and completely. Mulch can be broadcast onto the soil surface by hand or with hand/mechanical operated spreaders.

- 1814 The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1815 The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b Dry Method Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, or other approved mechanical seeding equipment may be used when seed is to be applied in dry form.
- 1819 The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.
- 1821 Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1822 No materials 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

Sale Name: Bear Creek T.S. Page **17** of **18** 

treatment area.

1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operations shall be picked up and disposed of to the satisfaction of the Authorized Officer.

### **ROADSIDE BRUSHING - 2100**

- 2101 This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.
- 2102 Roadside brushing shall be performed manually with hand tools, including chain saws.
- Vegetation cut less than 6 inches in diameter when measured at DBH shall be cut to a maximum height of 1 inch above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs below the 1 inch area will be severed from the trunk.
- Vegetation shall be cut and removed from the road prism between 6 feet beyond the outside shoulders (down the fill slope) and 6 feet beyond the ditch centerline (up the cut-bank) and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. Limbs below the 1 inch area will be severed from the trunk. Sharp pointed ends on cut vegetation will not be permitted within road surface, including shoulders and turnout areas. Cuts shall be parallel to the ground line or running surface.
- Trees in excess of 6 inches in diameter at DBH shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a middle ordinate distance of 25 feet, whichever is achieved first. Overhanging limbs and vegetation in excess of 1 foot in height, shall be cut within these areas.

Sale Name: Bear Creek T.S. Page **18** of **18** 

Vegetation 6 inches and smaller in diameter shall be chipped. Chips shall be scattered downslope from the roadway. Vegetation over 6 inches in diameter shall be removed from within the clearing limits by direction of the Authorized Officer. **Chips are never allowed on the road surface.** 

2116 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the current version of the Manual on Uniform Traffic Devices.

Sale Name: Bear Creek T.S.

Page 1 of 1

### **SPECIAL PROVISIONS**

- 1. Before the initial start of road renovation, construction, reconstruction, or surfacing operations, or after a shutdown of 7 or more days, the Purchaser shall notify the Authorized Officer 48 hours in advance of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer if they intend to cease operations for any period of 30 or more days.
- 2. The Purchaser shall protect, and is responsible for, any damage to existing telephone lines, transmission lines, fiber optic lines, fences, ditches, and other existing improvements as required in Section 14. Damage to utilities and existing improvements shall be promptly paid for or repaired to a condition which is, in the opinion of the Authorized Officer and the governing utility company, as good or better condition than just prior to such damage occurring.
- 3. All disturbed soil shall be seeded and mulched. The Purchaser shall furnish and apply native grass seed and certified weed free straw mulch for soil stabilization operations. Seed and mulch shall be acquired from a BLM approved source.
- 4. All stream channel culverts and inlets shall be cleared and cleaned between **June 15**<sup>th</sup> **and September 15**<sup>th</sup> in accordance with Oregon Department of Fish and Wildlife (ODFW) in-stream work period guidelines.
- 5. Ensure that all large wood is retained in the stream channel during culvert cleaning activities by moving logs which had accumulated on the upstream side of a culvert to the downstream side of the culvert.
- 6. Roadside brushing cutting limits beneath or adjacent to bridges shall extend <u>8 feet</u> horizontally from each side of the outermost projected line of the bridge including abutments, curbs, rails or decks. Cut brush and trees shall be removed from beneath the bridge and from the stream channel.
- 7. While roadside brushing, there shall be no scarring or any other damage of the tree trunk or bole allowed. All debris resulting from roadside brushing activities shall be manually cut and chipped. All culvert inlets and outlets shall be brushed for a radius of 4 feet.
- 8. While roadside brushing through private industry lands, conifer trees at the edges of the cleared area (see cutting limit, Exhibit C5) shall have the branches pruned rather than being felled.
- 9. All stumps, designated by the Authorized Officer, which would interfere with normal blading and road renovation operations (including turnouts), shall be removed in such a way as to not cause damage to the drainage ditch or the road bed. Stumps that are ground-down, shall be ground to a minimum of 3 inches below existing grade.

### **ROAD MAINTENANCE SPECIFICATIONS**

### TABLE OF CONTENTS

SECTION	DESCRIPTION
3000	General
3100	Operational Maintenance
3200	Seasonal Maintenance
3300	Final Maintenance
3400	Other Maintenance
3500	Decommissioning

### **GENERAL - 3000**

- 3001 The Purchaser shall be required to maintain all roads listed and/or as shown in Exhibit D maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400, and 3500 of this exhibit.
- The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads 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**

- The Purchaser shall blade and shape the road surface and shoulders with a motor grader.

  Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable 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 as directed by the Authorized Officer.
- 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 water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

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

The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be in accordance with Section 2100 of Exhibit C.

- The Purchaser shall avoid fouling gravel or bituminous surfaces. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.
- 3108a The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the road is not considered maintenance and shall be repaired at the Purchaser's expense.

### **SEASONAL MAINTENANCE - 3200**

- 3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 1<sup>st</sup> of each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.
- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 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

The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within thirty 30 calendar days following the completion of hauling and in accordance with Section 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

Sale Name: Bear Creek T.S.

Page **4** of **7** 

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 Section 16(b), Special Provisions, and 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.

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

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

### **OTHER MAINTENANCE - 3400**

- 3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.
- The Purchaser may 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>3</sup> of rock hauled. Subsequent watering 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 Purchaser shall secure any necessary water permits and pay all required water fees for use of the water sources approved by the Authorized Officer.

- The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride for water on any or all road segments listed in the contract provided that written approval is received from the Authorized Officer. Such authorization shall include the 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.
- 3405a Additional lignin sulfonate or magnesium chloride dust palliative may be required at the option of the Authorized Officer when the functional qualities of the dust palliative have been reduced or become ineffective due to third party damage, rain, or other events not under the control of the purchaser.

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

### Exhibit D1

Sale Name: Bear Creek T.S.

Page **5** of **7** 

- 3405b The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate or magnesium chloride dust palliatives at least 3 days prior to the work by posting warning signs at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty days of treatment.
- 3406 Prior to the application of lignin sulfonate or magnesium chloride dust palliative, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must be visibly moist and drying.
- 3406b A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliative material requirements specified under Subsection 3412b and 3412c. Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60°F, percent solids by mass, and PH.
- Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.
- 3409 The Purchaser shall notify the Authorized Officer a minimum of 3 days in advance of application of required dust palliative.
- 3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.
- 3411 Required lignin sulfonate or magnesium chloride dust palliative shall only be applied when the atmospheric temperature is 45°F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- The Purchaser shall apply to the prepared roadbed, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection 3412b and 3412c. The rate of application shall be 0.5 gallons per yd² surface. A second application at the rate of 0.3 gallons per yd² shall be applied at a time designated by the Authorized Officer.
  - Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to  $1\frac{1}{2}$  inches of the surfacing at the Contractor's expense.
- 3412a If required, the lignin sulfonate or magnesium chloride shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent

Sale Name: Bear Creek T.S.

Page **6** of **7** 

structures and trees shall be protected from spattering or marring.

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

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

### 3412b - Specifications for Lignin Sulfonate:

Lignin sulfonate shall be the chemical residue produced as a byproduct of the acid sulfite pulping process and supplied as a water solution. The base cation shall be ammonia, calcium, or sodium. The product shall be water soluble to allow field dilution. Dilute with water until the mixture contains a minimum 48 percent concentration with the following properties:

Solids	50%
Specific gravity	1.25
PH, AASHTO T289	4.5 min.

Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm

Apply when the ambient air temperature is 45° F or above.

### 3412c - Specifications for Magnesium Chloride:

The material shall consist of a brine containing 29 to 35 percent magnesium chloride by weight and 62 to 72 percent water by weight. Ensure that the material does not exceed the following chemical constituents:

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm

### Exhibit D1

Sale Name: Bear Creek T.S.

Page **7** of **7** 

sulfate 4.3 percent maximum nitrate 5.0 percent maximum.

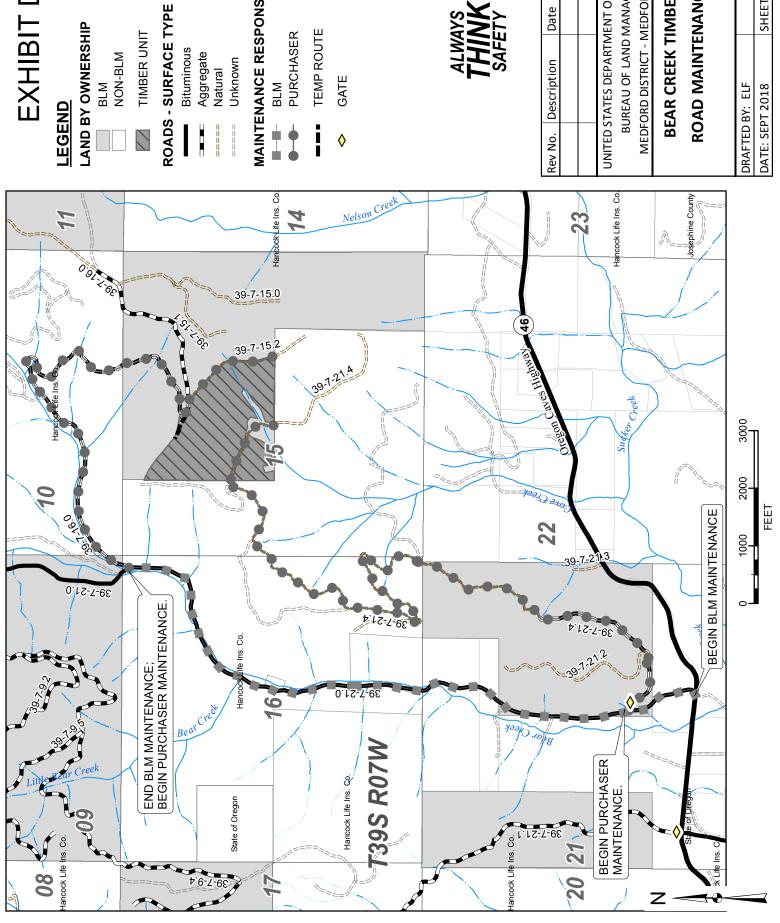
Concentration specifications for Magnesium chloride:

Magnesium chloride by mass 28% minimum Water by mass 72% maximum Specific gravity, AASHTO T 227 1.290 to 1.330

Apply when the ambient air temperature is 45° F or above.

### **DECOMMISSIONING – 3500**

- 3501 Decommissioning shall consist of ripping, installing water bars, seeding with native seed, placement of slash and placement of soil stabilization material, and blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.
- Decommissioning shall be performed on all temporary routes in accordance with these specifications.
- 3504 Decommissioning work shall be completed after timber extraction, logging activities, and after road use for unit maintenance activities associated with this timber sale.
- 3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. All slash stockpiles created by the purchaser shall be utilized for decommissioning operations. Where slash is not available or no longer remaining, exposed soil areas shall be stabilized in accordance with section 1800 Soil Stabilization.
- 3508 Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- 3511 Ripping and water barring shall be done on all temporary routes, disturbed areas outside of the roadway, and landings.
- Water bars shall be installed across full width of temporary routes. Water bars shall be constructed as shown on Exhibit D6.
- 3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with section 1800 and placement of slash described in section 2606 on temporary routes, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.



### **EXHIBIT D2**

### LAND BY OWNERSHIP

# MAINTENANCE RESPONSIBILITY

BLM PURCHASER

TEMP ROUTE

GATE

BUREAU OF LAND MANAGEMENT	UNITED STATES DEPARTMENT OF THE INTERIOR			Rev No. Description Date Approval		Approval INTERIOR ENT	Date IENT OF THE MANAGEMI	Description STATES DEPARTM UREAU OF LAND	Rev No. UNITED S
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### **ROAD MAINTENANCE MAP BEAR CREEK TIMBER SALE**

ED BY: ELF	SEPT 2018 SHEET: 1 OF 1
DRAFTED BY: E	DATE: SEPT 2018

### BLM NON-BLM LEGEND 39-7-15.0 1000 T39S R07W lancock Life Ins. Co. TEMP ROUTE 1 DECOMMISSION (LONG-TERM) PER D1 SPECIFICATIONS AND D4 DECOMMISSIONING WORK LIST (A) Cove Creek lancock Life Ins. Co.

## **EXHIBIT D3**

### LAND BY OWNERSHIP

TIMBER UNIT

ROADS - SURFACE TYPE

### Bituminous Aggregate Natural Unknown

# MAINTENANCE RESPONSIBILITY

BLM PURCHASER

**DECOMMISSION TEMP ROUTE** 

GATE



Approval		HE INTERIOR	MENT	ORFGON
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DRAFTED BY: ELF	DATE: SEPT 2018

### Exhibit D4

Sale Name: Bear Creek T.S. Page 1 of 1

### **Temp Route Decommissioning Work List**

Upon completion of timber operations, all Temp Routes are to be decommissioned. See Exhibit D1, Section 3500 for specifications.

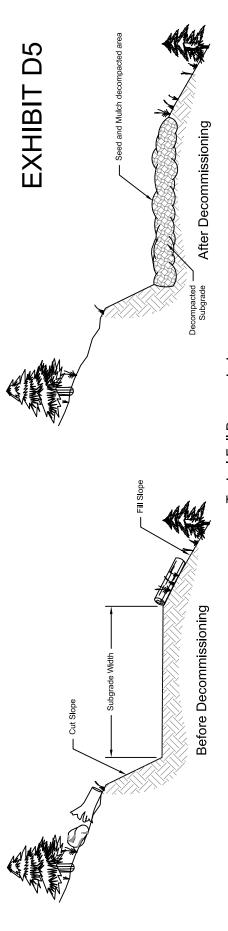
### **General Definitions:**

<u>Decommission (Long-Term)</u>: Decommissioning shall include removing temporary culverts (if any), decompacting the surface to a depth of 8 to 12 inches (ripping or pitting), installing water bars per the Water Bar Spacing by Erosion Class Table shown on Exhibit D6, and barricading. All disturbed soils shall be seeded with approved native seed species and mulched with weed-free straw or approved native slash materials.

<u>Decommission (Partial)</u>: Decommissioning shall include removing temporary culverts (if any), decompacting half of the subgrade surface (centerline of temp to fill slope) to a depth of 8 to 12 inches (ripping or pitting), and installing water bars per the Water Bar Spacing by Erosion Class Table shown on Exhibit D6. No barricade is to be constructed. All disturbed soils shall be seeded with approved native seed species and mulched with weed-free straw.

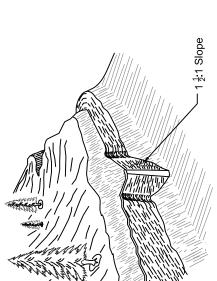
### **Temp Route 1**

	<del>· · · · ·</del>
STA	Description
0+00	Jct w/ 38-8-13.4 Road. Begin temp route decommissioning (long-term).
0+40	Construct barricade per Exhibit D6.
0+70	Construct water bar
1+80	Ensure constructed water dip is functional.
2+50	Construct water bar
3+10	Construct water bar
3+90	Ensure constructed water dip is functional.
4+50	Construct water bar
4+95	End temp route decommissioning. Decommission constructed turnaround.



## Typical Full Decommission

- 1. The Purchaser shall barricade, and decompact the temp route subgrade. Barricades shall be constructed as shown in Exhibit D6.
  - 2. Ditch lines at intersecting existing system roads will be restored.
- depth of 8 to 12 inches. Where it is determined by the Authorized Officer that decompaction may cause unacceptable damage to the root systems of residual trees along a majority of the temp route, decompaction may be intermittent, or 3. Road surface shall be decompacted for its entire length using mechanical equipment. Decompact road surface to a scarification may be used instead. Decopacted areas shall be seed and mulched after completion.
  - drain and have slopes of 1½:1. Where draw culverts are removed, the grade of the channel shall be restored to match existing stream. Culverts not designated as salvage for the Government shall become the property of the Contractor. 4. All temporary culverts (if any) shall be removed from temp routes entirely. Excavated culverts shall be left open to The Contractor shall be responsible for legally disposing of material.
    - 5. See Section 1800 for Seeding and Mulching Specifications.



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Typical Culvert Removal - Before

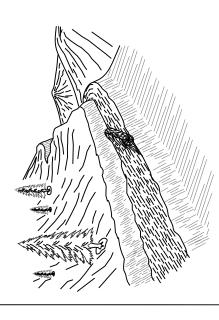
- After	
Removal	
Culvert	
Typical	

DRAWING NO: OR-11-9113.4-4

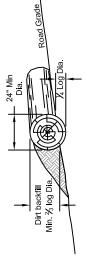
REV NO	REV. NO. DESCRIPTION		DATE	APPROV.
UNITED 8	UNITED STATES DEPARTMENT OF THE INTERIOR	MENT (	OF THE IN	TERIOR
MEDF	BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON	D MAN/ MEDF	AGEMENT ORD, ORE	CON
	BEAR CREEK	SREI	H H	
	<b>TIMBER SALE</b>	S SA	TE TE	
Ω	<b>DECOMPACTION AND</b>	STIO	N AN	0
CULV	CULVERT REMOVAL DETAILS	OVA	L DET	AILS
DRAFTED BY: ELF	3Y: ELF	SCALE	SCALE: NONE	
DATE: SEPT 2018	PT 2018	SHEE.	SHEET: 1 OF 1	

THINK SAFETY

ALWAYS

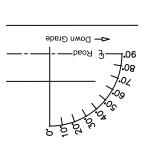


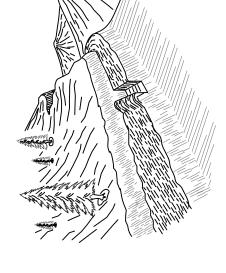
# **LOG BARRICADE**



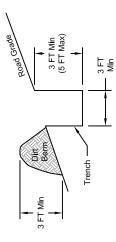
- 1. Log barricade shall be constructed as shown
- 2. Exact location is listed in Work List.
- 3. All barricades shall be skewed 30 degrees.
- 4. The length shall be sufficient to extend from the cut bank to the fill slope.
- 5. The minimum small end diameter of the log barricade shall be 24".

# SKEW DIAGRAM





# TRENCH BARRICADE



- 1. Barricade length shall extend across the entire road surface to a point sufficient to prohibit motor vehicle traffic.
  - 2. Exact location is listed in the Work List.
- 3. All barricades shall be skewed as needed to drain or as directed by the Authorized Officer.

# WATER BAR SPACING\* BY EROSION CLASS^

MOT	FEET	400	300	200	150	100	09
MODERATE	FEET	300	200	150	100	75	20
HBH	FEET	200	150	100	75	20	20
ROAD GRADE	%	2-5	6-10	11-15	16-20	21-35	35+

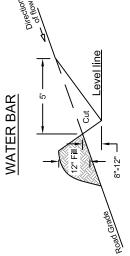
- Spacing is determined by slope distance and is the maximum allowed for the grade.
- **High:** Granite, sandstone, andesite porphyry, glacial or alluvial deposits, soft matrix conglomerate, volcanic ash, and pyroclastics. Moderate: Basalt, andesite, quartzite, hard matrix conglomerate, The erosion classes include the following rock types:

ALWAYS

Low. Metasediments, metavolcanics, and hard shale. and rhyolite.

# **EXHIBIT D6**





- Water bars shall be constructed as shown above.
  - 2. Exact location will be flagged by the Authorized Officer prior to construction.
    - 3. All water bars shall be skewed 30 degrees.
- 4. Upon completion of skidding logs, for the logging season, each skid road will have cross drainage constructed as shown above.

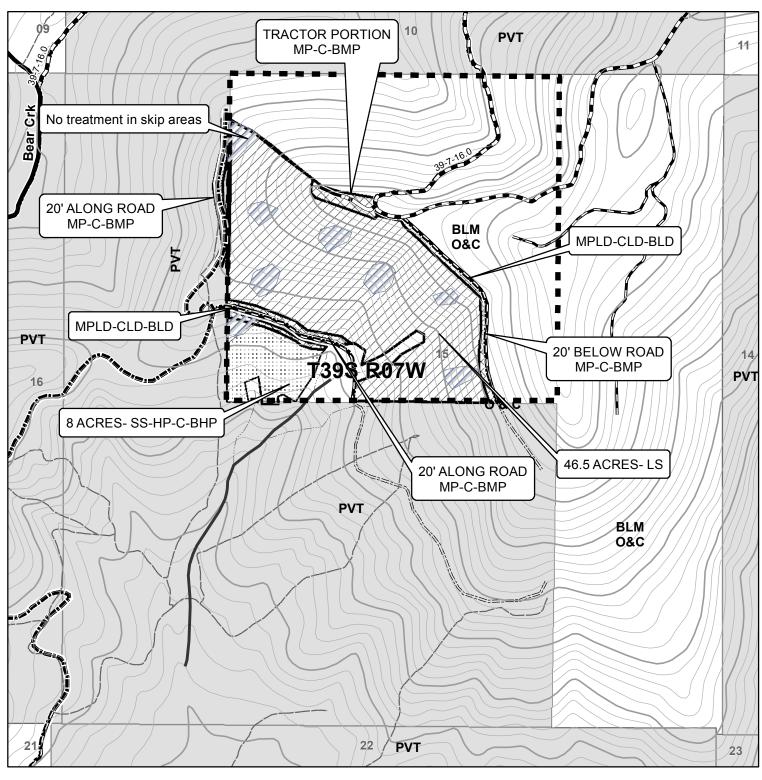
REV NO	REV. NO. DESCRIPTION	DATE	APPROV.
UNITED	UNITED STATES DEPARTMENT OF THE INTERIOR	OF THE IN	TERIOR
ш	BUREAU OF LAND MANAGEMENT	<b>AGEMENT</b>	
MEDE	MEDEORD DISTRICT - MEDEORD ORFGON	ORD ORF	NOG

## WATER BAR DETAILS BARRICADE AND **TIMBER SALE** BEAR CREEK

DRAFTED BY: ELF	SCALE: NONE
DATE: SEPT 2018	SHEET: 1 OF 1
DRAWING NO.: OR-11-9113.4-4	4

SAFETY

TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 1 OF 2



1 inch = 768 feet

1,150

287.5 575

be updated without notification.

No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may

1,725

Map created 7/26/18

40 FOOT CONTOUR INTERVAL

2,300

∎Feet

United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200



TIMBER SALE CONTRACT MAP EXHIBIT S PAGE 2 OF 2

#### Legend

□——□ New Construction	Intermittent
■ Reconstruction	—— Perennial
Rocked Road	■ ■
Paved Road	Skip Area- no treatment
===== Natural Surface Road	Township and Range
Not Known	Sections
Machine Pile, Cover & Burn	Bureau of Land Management
Lop & Scatter	Private Individual or Company
Colortius Clark Hand Dila Cover & Dura	40' Intermediate Contours
Selective Slash, Hand Pile, Cover & Burn	200' Index Contours

**Summary** 

UNIT	ACRES PRESCRIPTION		LOGGING SYSTEM	FUELS TREATMENT
15-1	8	SH 40%	Cable	SS-HP-C-BHP
15-1	46.5	SH 40%	GB\Cable	LS
15-1	4.5	SH 40%	GB\Cable	MP-C-BMP
15-2	3	SH 40%	GB\Cable	MPLD-CLD-BLD

**GB=Ground Based** 

SH 40% = Selection Harvest Thin to 40% canopy cover.

SS = Selective Slash

HP= Hand Pile

BHP= Burn Hand Piles

C= Cover

LS= Lop and Scatter

MP= Machine Pile

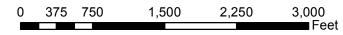
**BMP= Burn Machine Piles** 

MPLD= Machine Pile Landing Decks

**CLD=Cover Landing Decks** 

**BLD= Burn Landing Decks** 

<sup>\*8</sup> Acres were subtracted out of fuels treatment due to skips



1 inch = 1,000 feet

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

40 FOOT CONTOUR INTERVAL

Map created 8/28/18

United States Department of the Interior Bureau of Land Management Medford District Office 3040 Biddle Road Medford, OR 97504 (541) 618-2200



<sup>\*</sup>All Acres are computed by GPS Traverse

<sup>\*</sup>Boundaries of havest units are posted and painted in orange.

Sale: Bear Creek TS Sale Date: Nov 2018 Prep. By: EFreeman

UNITED STATES Prep. By: EFreeman
DEPARTMENT OF THE INTERIOR Tract No: TS-19-03
BUREAU OF LAND MANAGEMENT

#### ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

#### Summary of Costs

1.1) Road Use - Amortization: \$1,276.00/929 MBF = \$1.37/MBF

Road Maintenance Obligation:	
(2.1) BLM Maintenance	\$1,702.23 \$870.54 \$0.00 \$0.00 \$0.00 \$2,572.77
Purchaser Maintenance Allowances:	
(5.2A) Move In	\$2,542.80
(5.2B) Culverts, Catch Basins, Downspouts	\$731.64
(5.2C) Grading, Ditching	\$1,389.00
(5.2D) Slide Removal and Slump Repair	\$907.20
(5.2E) Dust Palliative (Water)	\$0.00
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	\$5,570.64
(2.1-5.2G) Cost ( \$2,572.77 + \$5,570.64) = \$8,143.41 Cost/MBF \$8,143.41 / 929 MBF = \$8.77/MBF	\$8.77/MBF
(5.2H) Decommissioning	\$816.57
(5.2H) Cost/MBF \$816.57/929 MBF =	\$0.88/MBF
(2.1-5.2H) Cost $($2,572.77 + $5,570.64 + $816.57) = $8,959.98$	

#### 1) Road Use Fees - Amortization

Details

R/W		Rd Use	Vol		Road Use
Number	Road Number	Fee x	MBF	=	Obligation
M-1166	39-7-15.2(A)	2.0	0	398	\$796.00
M-1166	39-7-21.4(C)	2.0	0	120	\$240.00
M-1166	39-7-21.4(D1)	2.0	0	120	\$240.00

Subtotal by agreement number

M-1166 \$1,276.00

(1.1) Subtotal \$1,276.00

#### 2) BLM Maintenance - Timber Haul

MAINTENANCE (2.1)					ROCKWEAR (2.2)					
Road Number	Α	Surf		Maint	Vol					
and Segment	N	Type	Mi	x Fee x	MBF	=	Maint	Fee x	MBF =	Rkwear
39-7-21.0(A-B)	Α	BST	2.00	0.92	809	\$1,	488.56	0.00	809	\$0.00
39-7-21.0(A)	Α	BST	0.25	0.92	929	ξ	213.67	0.00	929	\$0.00
(2.1) Subtotal		\$1,70	2.23		(2.2)	Subt	total \$0	0.00		

#### 3) Third Party Maintenance and Rockwear

					N/N TN		αn	(2 1)	DOG	77 T T T T	(2.2)
	~	- 1			MAIN	I ENAN	CE	(3.1)	ROC	KWLAR	(3.2)
Agrmnt	Surfa	ce Road									
Number	Type	Number	Mi	Х	Fee	x MBF		Maint	Fee x	MBF	= Rkwear
M-1166	NAT	39-7-21.4(C)	1.50						0.00	120	\$0.00
M-1166	NAT	39-7-21.4(D1	0.31						0.00	120	\$0.00
M-1166	NAT	39-7-15.2(A)	0.34						0.00	398	\$0.00
		ntenance fees kwear fees by					r:				\$0.00
M-1100											\$0.00
(3.1) Suk	ototal ototal							\$0.00			\$0.00

#### 4) Other Maintenance Payments - USFS or Others Perform Maintenance

		Miles	Vol	Fee	
Agency	Road Number	(Log) x	(mbf)	x MBF/MI =	Cost

(4.1) Subtotal \$0.00

#### 5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	Α		RkWea	ır	Vol	Total
and Segment	N	Mi	x Fee	х	MBF	= RkWear
39-7-21.4(A)	N	0.42	0.60		120	\$30.24
39-7-21.2(A)	N	0.21	0.60		120	\$15.12
39-7-16.0(A-B)	Α	1.70	0.60		809	\$825.18
39-7-21.4(B)	Α	0.60	0.00		120	\$0.00

(5.1) Subtotal <u>\$870.54</u>

#### Purchaser Operational Maintenance

#### Move In

	No	Move	Cost/	Dist	Sub-
Equipment	Units	x in	x 50 Mi	x Factor	= total
Motor Grader:	1	2	\$410.00	0.78	\$639.60
Back Hoe:	1	2	\$305.00	0.78	\$475.80
Loader:			\$410.00	0.63	\$0.00
Water Truck:	1	2	\$95.00	0.78	\$148.20
Dump Truck:			\$89.00	0.63	\$0.00
Excavator:	1	2	\$410.00	0.78	\$639.60
Roller:	1	2	\$410.00	0.78	\$639.60

(5.2A) Total \$2,542.80

#### Culvert Maintenance - Including Catch basins and Downpipes

Miles	X	Cost/Mi	=	Subtotal
2		\$365.82		\$731.64

(5.2B) Total \$731.64

#### Grading (Includes Ditches and Shoulders)

					•	
Miles	x	Cost/Mi	x Freq	= Subtotal		
Blade	w/	Ditch:	2.00	\$694.50	1	\$1,389.00
Blade	w/o	Ditch:	0.00	\$428.91	0	\$0.00

(5.2C) Total \$1,389.00

#### Slide and Slough removal, Slump Repair (15 sta-yds. ea.)

Type	No Slides	Но	urs	Eq	uip		
Equipment	/Slumps	х	Each	х	Cost	=	Subtotal
Grade	2: 2			2	\$140	.96	\$563.84
Loader:	0		0	\$1	01.17		\$0.00
Backhoe:	2		2	\$	85.84		\$343.36

(5.2D) Total \$907.20

#### Dust Palliative (Water)

Spreading Hours

	No	Freq		Truck								
	Miles	/	MPH		=	Hours	х	Days	х	/Day	=	Hours
	0.00		0					0		0		0
Load & Haul =						0.0		0		0		0
Total Hours =						0						

Truck Cost:  $$78.81/Hr. \times 0.0 \text{ Hours} = $0.00$ 

(5.2E) Total \$0.00

#### Surface Repair (Aggregate)

Production Cost:	0.0 CY x \$0.00/CY	=	\$0.00
Haul to Stockpile:	0.0 CY x $((\$1.75/CY \times 0.00 Mi) + \$0.58)$	=	\$0.00
Stockpile:	0.0 CY x \$1.07/CY	=	\$0.00
Load from Stockpile:	0.0 CY x \$1.05/CY	=	\$0.00
Haul from Stockpile:	$0.0 \text{ CY } \times ((\$1.75/\text{CY } \times 0.00 \text{ Mi}) + \$0.58)$	=	\$0.00
Process with Grader:	0.0 CY x \$0.88/CY	=	\$0.00
Compaction:	0.0 CY x \$1.08/CY	=	\$0.00

(5.2F) Total <u>\$0.00</u>

#### Other

Fallen Timber Cutting: Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour 0.0 Hours x \$0.00/Hour	=\$0.00 =\$0.00
Oil/Asphalt Materials:	Lump Sum	=\$0.00
Signing for Dust Palliatives:	Lump Sum	=\$0.00
	Lump Sum	=\$0.00

(5.2G) Total \$0.00

#### Decommissioning

#### Clearing

	Road	Base	Adjustment			Clearing				
	Number	Cost	х	Fac	tor	х	Ac	cres	=	Total
Temp	Route 1	\$308.5	7	х	2.26		Х	0.4		= \$278.95

(Clearing) Total \$278.95

#### Ripping

Road Number	Ripping Cost	x	(NumSta or	CuYds)	= Total
Temp Route 1	\$30.34	х	4.95		= \$150.18

(Ripping) Total \$150.18

#### Other Costs

Road	Cubic Yds		Qty		Qty		
Number	Pullback Material		Waterbars	Eart	hen Barriers	=	Total
Temp Route 1	(0x\$1.77)	+	(4x\$55.35)	+	(1x\$166.04)	=	\$387.44

(Other Cost) Total \$387.44

(5.2H) Decommissioning Total \$816.57

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

Version: 5.2.0.99 Summary of All Roads and Projects Updated: 6/14/2017 T.S. Contract Name: Bear Creek TS Tract No: TS-19-03 Sale Date: Nov 2018

Prepared by: EFreeman Ph: 471-6601 Print Date: 9/25/2018 Construction: 0.00 sta Improve: 0.00 sta Renov: 268.23 sta Decom: 0.00 sta Temp: 4.95 sta	
200 Clearing and Grubbing: 0.4 acres	\$1,333.67
300 Excavation: 1,965 cy	\$4,735.75
400 Drainage:	\$0.00
500 Renovation:	\$7,960.95
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$295.87
1800 Soil Stabilization: 0.4 acres	\$415.49
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$4,842.53
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00

Mobilization: Const. \$4,811.80 Surf. \$0.00...... \$4,811.80

Quarry Development: .....

Total: 929 mbf @ \$28.778/mbf = \$26,734.58

\$0.00

#### Notes:

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T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018  Road Number: 39-7-15.2(A) Road Name: Cove Rdg  Road Renovation: 0.34 mi 16 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:  Culvert: 0 lf  DownSpout: 0 lf  PolyPipe: 0 lf	\$0.00
500 Renovation:	\$432.11
700-1200 Surfacing:	\$0.00
1400 Slope Protection:	\$147.94
1800 Soil Stabilization: 0.2 acres	\$207.74
2100 RoadSide Brushing (Manual):0.3 acres	\$398.02
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$359.83 Surf. \$0.00	\$359.83
Quarry Development:	\$0.00

Total: \$1,999.24

#### Notes:

Road Construction Worksheet

Road Number: 39-7-15.2(A) Road Name: Cove Rdg

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Slide Removal 5 cy

Front End Loader  $$101.17/hr \times 1.00 hr = $101.17$ 

Dump Truck:  $$74.45/hr \times 1.00 hr = $74.45$ 

Blading w/o Ditches: \$428.91/mi x 0.34 mi = \$145.83

Compaction:  $$325.47/mi \times 0.34 mi = $110.66$ 

Subtotal: \$432.11

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1400 Slope Protection:

Comment: Water dip outlet protection

Rock Source: Commercial Furnish Class 2 type rock

Basic Rock Haul cost:  $$1.05/\text{cy} \times 6\text{cy} = $6.30$ 

Rock Haul +15% grades:  $$2.10/\text{cy-mi} \times 6\text{cy} \times 1.00 \text{ mi} = $12.60 \text{ Rock Haul} -15% grades: <math>$1.05/\text{cy-mi} \times 6\text{cy} \times 2.00 \text{ mi} = $12.60 \text{ Rock Haul} St& Co Roads: <math>$0.47/\text{cy-mi} \times 6\text{cy} \times 35.00 \text{ mi} = $98.70 \text{ Placement} on Fill slopes: <math>6\text{cy} \times ($2.87/\text{cy} \times 1.03) = $17.74 \text{ mi}$ 

Subtotal: \$147.94

Section 1800 Soil Stabilization:

Comment: 2 water dip stabilization sites @ 0.1 acres/site Dry Method with Mulch:  $$586.71/acre \times 0.20 acres = $117.34$ 

Includes Small Quantity Factor of 1.58

+ Seed Cost: \$132.00/acre x 0.20 acres = \$26.40

+ Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00

Subtotal: \$207.74

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.30 acres = \$398.02

Subtotal: \$398.02

Section 8000 Miscellaneous:

Reconstruct Ex Water Dips

Motor Grader 14M 2 hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 7.48% of total Costs = \$359.83

surfacing = 0% \$0.00

Subtotal: \$359.83

Quarry Development:

Subtotal: \$0.00

Total: \$1,999.24

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018  Road Number: 39-7-16.0(A-B) Road Name: E Fk Bear Creek Road	
Road Renovation: 1.70 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:  Culvert: 0 lf  DownSpout: 0 lf  PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 1.70 mi	\$2,631.68
700-1200 Surfacing:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):1.6 acres	\$2,122.75
8000 Miscellaneous:	\$275.52
Mobilization: Const. \$1,104.02 Surf. \$0.00	\$1,104.02
Quarry Development:	\$0.00
Total:	\$6,133.97

#### Notes:

Road Construction Worksheet

Road Number: 39-7-16.0(A-B) Road Name: E Fk Bear Creek Road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.70 mi = \$1,180.65 Compaction: \$325.47/mi x 1.70 mi = \$553.30 Clean Culverts: \$365.82/mi x 1.70 mi = \$621.89

Water for Road Compaction

Water Truck 3000 Gal 3.5 hr x \$78.81/hr = \$275.84

Subtotal: \$2,631.68

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 1.60 acres = \$2,122.75

Subtotal: \$2,122.75

Section 8000 Miscellaneous:

BMP's @ HPOC's

Crew Cab or 3/4 Ton Pickup 3 hr x \$57.75/hr = \$173.25

General Laborer 3 hr x \$34.09/hr = \$102.27

Subtotal: \$275.52

Mobilization:

Construction - 22.94% of total Costs = \$1,104.02

surfacing = 0% \$0.00

Subtotal: \$1,104.02

Quarry Development:

Subtotal: \$0.00

Total: \$6,133.97

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018	
Road Number: 39-7-21.2(A) Road Name: Bear Caves Rdg A	
Road Renovation: 0.21 mi 14 ft Subgrade 3 ft ditch	<b>40.00</b>
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	,
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$369.83
Blading 0.21 mi	
700-1200 Surfacing:	\$0.00
700 1200 Bullucing.	φ0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.2 acres	\$265.34
8000 Miscellaneous:	\$0.00
0000 MISCEITANEOUS.	\$0.00
Mobilization: Const. \$139.41 Surf. \$0.00	\$139.41
	·
Quarry Development:	\$0.00
Total:	\$774.58
TOTAL.	3//±.50

#### Notes:

Road Construction Worksheet

Road Number: 39-7-21.2(A) Road Name: Bear Caves Rdg A

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.21 mi = \$145.85 Compaction: \$325.47/mi x 0.21 mi = \$68.35 Clean Culverts: \$365.82/mi x 0.21 mi = \$76.82

Water for Road Compaction

Water Truck 3000 Gal 1 hr x \$78.81/hr = \$78.81

Subtotal: \$369.83

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.20 acres = \$265.34

Subtotal: \$265.34

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 2.90% of total Costs = \$139.41

surfacing = 0% \$0.00

Subtotal: \$139.41

Quarry Development:

Subtotal: \$0.00

Total: \$774.58

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018  Road Number: 39-7-21.4(A) Road Name: Bear Caves Rdg B  Road Renovation: 0.42 mi 14 ft Subgrade 3 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:  Culvert: 0 lf  DownSpout: 0 lf  PolyPipe: 0 lf	\$0.00
500 Renovation:	\$739.65
700-1200 Surfacing:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (Manual):0.4 acres	\$530.69
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$278.83 Surf. \$0.00	\$278.83
Quarry Development:	\$0.00

Total: \$1,549.16

#### Notes:

Road Construction Worksheet

Road Number: 39-7-21.4(A) Road Name: Bear Caves Rdg B

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.42 mi = \$291.69 Compaction: \$325.47/mi x 0.42 mi = \$136.70 Clean Culverts: \$365.82/mi x 0.42 mi = \$153.64

Water for Road Compaction

Water Truck 3000 Gal 2 hr x \$78.81/hr = \$157.62

Subtotal: \$739.65

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Heavy: \$1326.72/acre x 0.40 acres = \$530.69

Subtotal: \$530.69

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 5.79% of total Costs = \$278.83

surfacing = 0% \$0.00

Subtotal: \$278.83

Quarry Development:

Subtotal: \$0.00

Total: \$1,549.16

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018  Road Number: 39-7-21.4(B-D1) Road Name: Bear Caves Rdg B  Road Renovation: 2.41 mi 17 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation: 1,400 cy	\$2,814.00
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$3,707.08
700-1200 Surfacing:	\$0.00
1400 Slope Protection: Gradation Class 2: 6 cy	\$147.94
1800 Soil Stabilization: 0.2 acres	\$207.74
2100 RoadSide Brushing (Manual):2.3 acres	\$1,525.73
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$1,943.81 Surf. \$0.00	\$1,943.81
Quarry Development:	\$0.00

Total: \$10,799.89

#### Notes:

Road Construction Worksheet

Road Number: 39-7-21.4(B-D1) Road Name: Bear Caves Rdq B

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:
Comment: for road widening

Excavation - Common:  $$2.01/\text{cy} \times 1,400 \text{ cy} = $2,814.00$ 

Subtotal: \$2,814.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: 2 culverts @ 0.10 miles of ditch cleaning/culvert

Slide Removal 8 cy

Front End Loader  $$101.17/hr \times 2.00 hr = $202.34$ 

Dump Truck:  $$74.45/hr \times 2.00 hr = $148.90$ Scarification:  $$857.82/mi \times 0.36 mi = $308.82$ 

Blading w/o Ditches: \$428.91/mi x 2.41 mi = \$1,033.67

Compaction:  $$325.47/mi \times 2.41 mi = $784.38$ Clean Culverts:  $$365.82/mi \times 0.20 mi = $73.16$ 

Heavy Blading/Road Widening

Tractor: D7 with winch  $4 \text{ hr } \times \$155.01/\text{hr} = \$620.04$ Excavator - Large (3 CY)  $4 \text{ hr } \times \$133.94/\text{hr} = \$535.76$ 

Subtotal: \$3,707.08

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1400 Slope Protection:

Comment: Water dip outlet protection

Rock Source: Commercial Furnish Class 2 type rock

Basic Rock Haul cost:  $$1.05/\text{cy} \times 6\text{cy} = $6.30$ 

Rock Haul +15% grades:  $$2.10/\text{cy-mi} \times 6\text{cy} \times 1.00 \text{ mi} = $12.60 \text{ Rock Haul} -15% grades: <math>$1.05/\text{cy-mi} \times 6\text{cy} \times 2.00 \text{ mi} = $12.60 \text{ Rock Haul} St& Co Roads: <math>$0.47/\text{cy-mi} \times 6\text{cy} \times 35.00 \text{ mi} = $98.70 \text{ Placement} on Fill slopes: <math>6\text{cy} \times ($2.87/\text{cy} \times 1.03) = $17.74 \text{ mi}$ 

Subtotal: \$147.94

Section 1800 Soil Stabilization:

Comment: 2 water dip stabilization sites @ 0.1 acres/site Dry Method with Mulch: \$586.71/acre x 0.20 acres = \$117.34

Includes Small Quantity Factor of 1.58

+ Seed Cost: \$132.00/acre x 0.20 acres = \$26.40

+ Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00

Subtotal: \$207.74

Section 2100 Roadside Brushing:

Manual Brushing

RoadSide Brushing Medium: \$663.36/acre x 2.30 acres = \$1,525.73

Subtotal: \$1,525.73

Road Number: 39-7-21.4(B-D1) Bear Caves Rdg B Continued

Section 8000 Miscellaneous:

Reconstruct Water Dips

Motor Grader 14M  $^{2}$  hr x \$140.96/hr = \$281.92

Backhoe 2 hr x \$85.84/hr = \$171.68

Subtotal: \$453.60

Mobilization:

Construction - 40.40% of total Costs = \$1,943.81

surfacing = 0% \$0.00

Subtotal: \$1,943.81

Quarry Development:

Subtotal: \$0.00

Total: \$10,799.89

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T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018  Road Number: Temp Route 1 Road Name:	
Temporary Road: 0.09 mi 14 ft Subgrade 0 ft ditch	
200 Clearing and Grubbing: 0.4 acres	\$1,333.67
300 Excavation: 565 cy	\$1,921.75
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation: Blading 0.05 mi	\$80.61
700-1200 Surfacing:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
8000 Miscellaneous:	\$1,155.80
Mobilization: Const. \$985.91 Surf. \$0.00	\$985.91
Quarry Development:	\$0.00
Total:	\$5,477.74

#### Notes:

Road Construction Worksheet Road Number: Temp Route 1 Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1) Scatter (Slash): Adjustment Factor (1) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1 + 0.1 = 3.74Base Cost/Acre: \$891.49 x Adjustment Factor: 3.74 x Total Acres: 0.4 = \$1,333.67 Subtotal: \$1,333.67 Section 300 Excavation: Excavation - Common:  $$2.01/cy \times 565 cy = $1,135.65$ Embankment Placement & Compaction 306.f - Common: \$0.25/cy x 565 cy = \$141.25 Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 5.0 sta = \$134.24 Embankment Placement & Compaction 306.a - Common: \$0.80/cy x 565 cy = \$452.00 Blading without ditch: \$11.84/station x 4.95 stations = \$58.61 Subtotal: \$1,921.75 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Scarification:  $$857.82/mi \times 0.05 mi = $42.89$ Blading w/o Ditches: \$428.91/mi x 0.05 mi = \$21.45 Compaction:  $$325.47/mi \times 0.05 mi = $16.27$ Subtotal: \$80.61 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 8000 Miscellaneous: Construct Water Dip Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02Excavator - Large (3 CY) 2 hr x \$133.94/hr = \$267.88Construct Turnaround Tractor: D7 with winch 2 hr x \$155.01/hr = \$310.02Excavator - Large (3 CY) 2 hr x \$133.94/hr = \$267.88Subtotal: \$1,155.80

#### Mobilization:

Construction - 20.49% of total Costs = \$985.91 surfacing = 0% \$0.00

Subtotal: \$985.91

Quarry Development:

Subtotal: \$0.00

Total: \$5,477.74

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

#### Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018

Average Mobilization distance = 35 miles Factor = 0.75

#### Mobilization: Construction

Graders-all: 1 ea x  $(0.75 \times $410.00/ea + 5 \text{ mi } \times $14.10/mi) = $378.00$ 

Brush Cutter: 1 ea x (0.75 x \$410.00/ea) = \$307.50

Rollers & Comp: 1 ea x  $(0.75 \times $410.00/ea + 5 \text{ mi x } $21.70/mi) = $416.00$ 

Excavators: 1 ea x  $(0.75 \times \$861.00/ea = \$645.75$ 

RTBackhoes 24/30: 1 ea x (0.75 x \$305.00/ea + 5 mi x \$5.65/mi) = \$257.00 Tractors <= D7: 1 ea x (0.75 x \$635.00/ea + 5 mi x \$31.00/mi) = \$631.25 Dump Truck<=15cy: 1 ea x (0.75 x \$89.00/ea + 5 mi x \$3.72/mi) = \$85.35 Water Truck: 1 ea x (0.75 x \$95.00/ea + 5 mi x \$3.94/mi) = \$90.95

Equipment Washing: 8 ea x (\$250.00) /ea = \$2,000.00

Subtotal: \$4,811.80

Mobilization: Surfacing

Subtotal: \$0.00

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

#### Summary of Construction Quantities

T.S. Contract Name: Bear Creek TS Sale Date: Nov 2018	Summary of Construct	ion Quantities			
39-7-15.2(A) 17.95 39-7-16.0(A-B) 89.76 39-7-21.2(A) 11.09 39-7-21.4(A) 22.18 39-7-21.4(B-D1) 127.25 Temp Route 1 268.23 4.95  200 Clearing and Grubbing Clearing acres 39-7-15.2(A) 0.0 39-7-21.2(A) 0.0 39-7-21.2(A) 0.0 39-7-21.4(B-D1) 0.0 39-7-21.4(B-D1) 0.0 Temp Route 1 20.4  Totals:	T.S. Contract Name:	Bear Creek TS	Sale Date:	Nov 2018	
39-7-16.0(A-B) 89.76 39-7-21.4(A) 11.09 39-7-21.4(A) 22.18 39-7-21.4(B-D1) 127.25  Temp Route 1 268.23 4.95   200 Clearing and Grubbing Clearing acres 39-7-15.2(A) 0.0 39-7-21.4(A) 0.0 39-7-21.4(A) 0.0 39-7-21.4(A) 0.0 39-7-21.4(B-D1) 0.0 Temp Route 1 0.4  Totals:	Road Number	Const Improv	Renov	Decomm	Temp
39-7-21.2(A) 11.09 39-7-21.4(B) 22.18 39-7-21.4(B-D1) 127.25 Temp Route 1 268.23 4.95  200 Clearing and Grubbing Clearing acres 39-7-15.2(A) 0.0 39-7-16.0(A-B) 0.0 39-7-21.4(B-D1) 0.0 Temp Route 1 0.0  Totals:	39-7-15.2(A)		17.95		
39-7-21.4(A) 22.18 39-7-21.4(B-D1) 127.25 Temp Route 1 4.95  Total Sta: 268.23 4.95  200 Clearing and Grubbing Clearing acres 39-7-15.2(A) 0.0 39-7-21.4(B-D1) 0.0 39-7-21.4(B-D1) 1.400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	39-7-16.0(A-B)		89.76		
39-7-21.4(A) 22.18 39-7-21.4(B-D1) 127.25 Temp Route 1 4.95  Total Sta: 268.23 4.95  200 Clearing and Grubbing Clearing acres 39-7-15.2(A) 0.0 39-7-21.4(B-D1) 0.0 39-7-21.4(B-D1) 1.400 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
Temp Route 1					
Temp Route 1  Total Sta:  268.23  4.95  200 Clearing and Grubbing  Clearing acres  39-7-15.2(A) 39-7-21.2(A) 39-7-21.4(A) 39-7-21.4(B-D1)  Temp Route 1  200 Excavation  Totals:  Total					
200 Clearing and Grubbing acres  39-7-15.2(A) 0.0 39-7-16.0(A-B) 0.0 39-7-21.2(A) 0.0 39-7-21.4(B-D1) 0.0 Temp Route 1 0.4  Totals: 0.4   300 Excavation Excav Haul Haul LCY.s sta-yds yd-mi 1,400 0 0 0 Temp Route 1 1,400 0 0 Totals: 1,965 0 0  400 Drainage Road Number Culvert Polypipe Downspout Total Drainage:  Totals: No Quantities  500 Renovation Blade Miles Slide cy 39-7-15.2(A) 0.34 5 39-7-15.2(A) 0.34 5 39-7-21.4(B-D1) 0.39-7-21.4(A) 0.21 0 39-7-21.4(B-D1) 0.42 0					4.95
200 Clearing and Grubbing acres  39-7-15.2(A) 0.0 39-7-16.0(A-B) 0.0 39-7-21.2(A) 0.0 39-7-21.4(B-D1) 0.0 Temp Route 1 0.4  Totals: 0.4   300 Excavation Excav Haul Haul LCY.s sta-yds yd-mi 1,400 0 0 0 Temp Route 1 1,400 0 0 Totals: 1,965 0 0  400 Drainage Road Number Culvert Polypipe Downspout Total Drainage:  Totals: No Quantities  500 Renovation Blade Miles Slide cy 39-7-15.2(A) 0.34 5 39-7-15.2(A) 0.34 5 39-7-21.4(B-D1) 0.39-7-21.4(A) 0.21 0 39-7-21.4(B-D1) 0.42 0			260 22		4.05
39-7-15.2(A) 39-7-16.0(A-B) 39-7-21.2(A) 39-7-21.4(B-D1) Temp Route 1  300 Excavation  Totals:  Totals	iotai Sta.		200.23		4.95
39-7-15.2(A) 39-7-16.0(A-B) 39-7-21.2(A) 39-7-21.4(B-D1) Temp Route 1  300 Excavation  Totals:  Totals	200 Clearing and Gru	lbbing	Clearing		
39-7-16.0(A-B) 39-7-21.2(A) 39-7-21.4(A) 39-7-21.4(B-D1) Temp Route 1  Totals:  Tota	J	5			
39-7-16.0(A-B) 39-7-21.2(A) 39-7-21.4(A) 39-7-21.4(B-D1) Temp Route 1  Totals:  Tota	39-7-15.2(A)				
39-7-21.4(A) 39-7-21.4(B-D1) Temp Route 1  300 Excavation  Totals:  Totals:					
39-7-21.4(A) 39-7-21.4(B-D1) Temp Route 1  Totals:  Total					
39-7-21.4(B-D1) Temp Route 1  Totals:					
Temp Route 1					
Totals: 0.4  300 Excavation					
300 Excavation	Temp Rouce I				
LCY.s   sta-yds   yd-mi   1,400   0   0   0   0   0   0   0   0   0		Totals:	0.4		
LCY.s   sta-yds   yd-mi   1,400   0   0   0   0   0   0   0   0   0					
LCY.s   sta-yds   yd-mi   1,400   0   0   0   0   0   0   0   0   0	300 Excavation		Excav	Haul	Haul
39-7-21.4(B-D1) Temp Route 1  Totals: 1,400 0 0 0  Totals: 1,965 0 0  400 Drainage Road Number Culvert Polypipe Downspout  Total Drainage:  Totals: No Quantities  500 Renovation 39-7-15.2(A) 39-7-16.0(A-B) 39-7-21.2(A) 39-7-21.4(A) 39-7-21.4(B-D1) Temp Route 1  1,400 0 0 0  Totals: No Quantities					
Temp Route 1 565 0 0  Totals: 1,965 0 0  400 Drainage Road Number Culvert Polypipe Downspout  Total Drainage: No Quantities  500 Renovation Blade Miles Slide cy 39-7-15.2(A) 0.34 5 39-7-16.0(A-B) 1.70 0 39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0	39-7-21 4(B-D1)				
400 Drainage Road Number					
Road Number         Culvert         Polypipe         Downspout           Total Drainage:         Totals:         No Quantities           500 Renovation         Blade Miles         Slide cy           39-7-15.2(A)         0.34         5           39-7-16.0(A-B)         1.70         0           39-7-21.2(A)         0.21         0           39-7-21.4(A)         0.42         0           39-7-21.4(B-D1)         2.41         8           Temp Route 1         0.05         0		Totals:	1,965	0	0
Road Number         Culvert         Polypipe         Downspout           Total Drainage:         Totals:         No Quantities           500 Renovation         Blade Miles         Slide cy           39-7-15.2(A)         0.34         5           39-7-16.0(A-B)         1.70         0           39-7-21.2(A)         0.21         0           39-7-21.4(A)         0.42         0           39-7-21.4(B-D1)         2.41         8           Temp Route 1         0.05         0					
Total Drainage:  Totals:  No Quantities  500 Renovation  39-7-15.2(A)  39-7-16.0(A-B)  39-7-21.2(A)  39-7-21.4(A)  39-7-21.4(B-D1)  Temp Route 1  Blade Miles  Slide cy  0.34  5  1.70  0  0.21  0  2.41  8  Temp Route 1		a 1	- 1 ·		
Totals: No Quantities  500 Renovation	Road Number	Culvert	Polypipe	Downspout	
500 Renovation Blade Miles Slide cy 39-7-15.2(A) 0.34 5 39-7-16.0(A-B) 1.70 0 39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0	Total Drainage:				
39-7-15.2(A) 0.34 5 39-7-16.0(A-B) 1.70 0 39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0		Totals:		No Quantiti	es
39-7-15.2(A) 0.34 5 39-7-16.0(A-B) 1.70 0 39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0					
39-7-16.0(A-B) 1.70 0 39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0	500 Renovation		Blade Mil	es Slide	су
39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0	39-7-15.2(A)		0.34		
39-7-21.2(A) 0.21 0 39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0			1.70		0
39-7-21.4(A) 0.42 0 39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0					
39-7-21.4(B-D1) 2.41 8 Temp Route 1 0.05 0					
Temp Route 1 0.05 0					
Totals: 5.13 13					
		Totals:	5.13	<del></del>	13

#### Continuation of Construction Quantities

3-D1)
etween total LCY vs. subtotaled LCY, own in the road summaries and worksheets.
Gradation Class 2: 6 cy Gradation Class 2: 6 cy
Totals: 12 cy
N/O Dry/with Hydro Ach Mulch Mulch 0.0 0.2 0.0 0.2
0.0 0.4 0.0 Factor of 1.58 used
actor of 1.38 used
res 0.3 1.6 0.2 0.4 2.3
1.8
3 hr 3 hr 2

Form 5440-9 (December 2004)

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

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

Name of Bidder	
Tract Number	
ORM07-TS-2019.0003	
Sale Name	
Bear Creek Timber Sale	
Sale Notice (dated)	
November 29, 2018	
BLM District	

Medford

**LUMP SUM SALE** 

		Sealed Bid for Sealed Bid Sale	Х	W	ritten Bid for	Oral Auction Sale		
In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.								
Required bid deposited is \$9,900.00 and is enclosed in the form of $\Box$ cash $\Box$ money order $\Box$ bank draft $\Box$								
cashier's check $\Box$ certified check $\Box$ bid bond of corporate surety on approved list of the United States Treasury								
☐ guaranteed remittance approved by the authorized officer.								
IT I	IT IS ACREED. That the hid denocitishall be retained by the United States as liquidated demagns if the hid is accounted and the							

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

### BID SCHEDULE – LUMP SUM SALE NOTE: Bidders should carefully check computations in completing the Bid Schedule

BID SUBMITTED					ORAL BID MADE		
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE	
Douglas-fir	MBF	898	х	=	х	=	
ponderosa pine	MBF	20	X\$39.30	=\$419.00	х	=	
sugar pine	MBF	10	X\$41.90	=\$786.00	х	=	
incense-cedar	MBF	1	X\$99.40	=\$99.40	х	=	
Total		929	х	=	х	=	
			х	=	Х	=	
			х	=	х	=	
			х	=	х	=	
			х	=	х	=	
			Х	=	Х	=	
			Х	=	Х	=	
			Х	=	Х	=	
			Х	=	X	=	
			х	=	Х	=	
			х	=	х	=	
		TOTAL PU	RCHASE 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)						
Signature, if firm is individually owned	Name of firm (type or print)						
Signatures, if firm is a partnership or L.L.C.	Business address, include zip code (type or print)						
Corporation organized under the state laws of	(To be completed following oral bidding)						
	I HEREBY confirm the above or al bid						
Signature of Authorized Corporate Signing Officer	By (signature)						
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"						
Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract.	<ul><li>(2) Vegetative Resource Other Than Timber</li><li>(3) Time bids are to be opened</li><li>(4) Legal description</li></ul>						

#### **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.

<sup>\*</sup>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.