

PROSPECTUS

DXD SCALED-SALE

GRANTS PASS RESOURCE AREA
JOSEPHINE MASTER UNIT

Medford Sale # ORM07-TS-13-02
December 20, 2012 (LS)

#1. London Peak, Josephine County, O&C

BID DEPOSIT REQUIRED: \$13,800.00

All timber designated for cutting in Lot 5,6,7,10 SE1/4NW1/4, W1/2SE1/4, SE1/4SE1/4 Section 27, T. 33 S., R. 6 W., Willamette Meridian.

| Approx. Number Merch. Trees | Est. Volume MBF 32' Log | Est. Volume CCF | Species | Est. Volume MBF 16' Log | Appr. Price Per MBF* | Est. Volume Times Appraised Price |
|-----------------------------|-------------------------|-----------------|---------------|-------------------------|----------------------|-----------------------------------|
| 11,842 | 1,030 | 2,303 | Douglas-fir | 1,196 | \$115.10 | \$137,659.60 |
| 11,842 | 1,030 | 2,303 | Totals | 1,196 | | \$137,659.60 |

*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.

TIMBER AUCTION LOCATION – The timber auction will be held at the Grants Pass Interagency Office, located at 2164 NE Spalding Road, Grants Pass, Oregon, at 9:00 a.m. on Thursday, December 20, 2012.

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

CRUISE INFORMATION - The Timber has been cruised using the PCMTRE sampling method to select sample trees. The Douglas-fir in the Roadway units and Right of Way units have been cruised using the BLM 100% sampling method to cruise trees.

The sample trees have been measured, utilizing the VOLT system of measurement, and the volume expanded to a total sale volume. The volume of Roadway units and Right of Way units have 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.

Maps showing the location and description of these sample trees are available at the Grants Pass Interagency Office.

With respect to merchantable DF trees: the average tree is 11.5 inches DBHOB; the average gross merchantable log contains 33 bd. ft.; the total gross volume is approximately 1,288 M bd. ft; and 93% recovery is expected.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - 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 private timber.

The BLM has revised the log export restrictions special provision to reduce the log branding and painting requirements. The new requirements include branding of one end of all logs with a scaling diameter of over 10 inches. All loads of 11 logs or more, regardless of the diameter of the logs, will have a minimum of 10 logs branded on one end. All logs will be branded on loads of 10 logs or less. One end of all branded logs will be marked with yellow paint. At the discretion of the Contracting Officer, the Purchaser may be required to brand and paint all logs. The Purchaser shall bear any increased costs for log branding and painting.

CUTTING AREA – Four (4) units containing ninety-one (91) acres of partial cut, three (3) right-of-way units containing three (3) acres of clear-cut and one (1) roadway units containing three (3) acres of roadway clearing.

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

ACCESS - Access to the sale area is available via an existing BLM road; via Memorandum of Understanding between the BLM and Oregon Department of Forestry and License Agreement LA-523 with the Oregon Department of Forestry; via Right-of-Way and Road Use Agreement M-768 with Lone Rock Timber Company; via Right-of-Way and Road Use Agreement M-2000EA with Perpetua Forests Company. Among other conditions, Agreement LA-523 with Oregon Department of Forestry requires Purchaser to perform road maintenance and an estimated payment of a surface replacement fee of \$11.22 and completion of an agreement between the Purchaser and Permittee. Among other conditions, Agreement M-768 with Lone Rock Timber Company requires Purchaser to perform road maintenance and completion of an agreement between the Purchaser and Permittee. Among other conditions, Agreement M-2000EA with Perpetua Forests Company requires Purchaser to perform road maintenance and completion of an agreement between the Purchaser and Permittee.

ROAD MAINTENANCE - The Purchaser will be required to maintain all of the roads which he constructs plus 4.18 miles of existing BLM, Oregon Department of Forestry, and private roads. The Purchaser will be required to pay a rockwear fee of \$0.51 per MBF per mile for the use of these roads.

ROAD CONSTRUCTION - The contract will require the Purchaser to construct 33+79 stations of road of which 8+81 stations will be constructed on Oregon Department of Forestry property and reconstruct 4+22 stations. 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, temporary route construction, temporary route reconstruction, or temporary route decommissioning in Timber Sale 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.

Pursuant to Section 26 of Form 5450-4, Timber Sale Contract, the Purchaser shall not conduct any roadway clearing operations in the sale area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If moisture conditions on the road are deemed acceptable and do not result in continuous mud splash or tire slide, fines being pumped through road surfacing from the subgrade, road drainage causing a visible increase in stream turbidities, surface rutting, surface ribboning, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events,

Contracting Officer may approve a conditional waiver. If moisture conditions on the road resulting from said conditional waiver are not acceptable as determined by the Authorized 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 natural surface and rocky roads 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.

EQUIPMENT REQUIREMENTS – A forty (40) foot tower capable of spanning nine hundred sixty one (961) feet, with lateral yarding capability of seventy five (75) feet, with one end suspension of logs during inhaul, and capable of multi-span. A yarding tractor will not exceed nine (9) feet in width and must be capable of bull-lining seventy five (75) feet. 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 skid roads. A mechanical harvester with a single-grip felling head capable of reaching and cutting fifteen (15) feet slope distance from the road surface, capable of cutting and processing trees up to twenty four (24) inches at diameter breast height. A piece of equipment capable of chipping or masticating vegetation up to twenty (15) feet slope distance from the edge of the road.

SLASH DISPOSAL - Slash disposal within the Commercial Thin harvest units will consist of lop and scatter, hand pile and cover hand piles, and cover landing decks as described in SD-5 of the Special Provisions. Lop and scatter areas of high slash concentration within units. Hand pile and cover slash located within one hundred (100) feet of roads 33-6-26 and 33-6-27 where the road coincides with a commercial thin harvest unit. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed twenty five (25) acres of lop and scatter, twenty one (21) acres of hand pile and cover hand piles, and ten (10) acres of cover landing piles. Slash disposal within the Roadway Clearing Units will consist of approximately three (3) acres of biomass removal and/or chipping. See Exhibit C-11 for further details.

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.

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

OTHER -

1. No extension of time beyond the normal 30 days will be granted for completing bonding and contract signing requirements.
2. All leave trees will be selected by the Purchaser through Designation by Description (DxD) criteria as outlined in Exhibit E, except for the roadway clearing units which have already been blue marked (for cut tree removal). Unit 27-3 has orange marked trees that must be retained and are addressed in Exhibit E.

3. This contract contains provisions (L-26M) requiring that prior to falling and removal of trees in Sale Units as shown on Exhibit A, the Purchaser shall conduct a sample mark as outlined in Exhibit E. Sample area size shall be approximately one-half (½) acre. Identification of leave trees may be done by flagging or paint as approved by the Authorized Officer. Additional marking may be required based on the results of the sample mark. Upon acceptance of the sample mark by the Authorized Officer, the Purchaser may proceed with operations.
4. Purchaser should be aware that Logging residue reduction costs listed under SD-5 are in addition to costs associated with treating the slash from the roadway clearing units as assessed under Exhibit C-11. Refer to the appraisal for total assessed costs of logging residue reduction.
5. Delivered log lengths shall not exceed 41 feet.
6. A temporary route is to be built over State lands to access unit 27-1. It is estimated that 20 mbf of timber will be removed. The purchaser agrees to buy this timber from the State for five thousand four hundred eighty seven and 20/100's dollars (\$5,487.20).

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Grants Pass, take Interstate 5 northbound. Take exit 76 to Wolf Creek. At the off ramp take a left and travel a few hundred feet and turn left onto Bridge Lane. Follow for approximately two miles. Turn right onto the 36-6-26 road. All timber sale units can be accessed by the 36-6-26 Road.

ENVIRONMENTAL ASSESSMENT - An environmental assessment DOI-BLM-M070-2012-0002-EA was prepared for this sale, and a Finding of No Significant Impact has been documented. This document is available for inspection as background for this sale at the Medford District Office.

OR110-5409-11 (2008)

London Peak T.S.
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* Operations will be suspended if unacceptable damage to residual trees occur.

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

Dry Condition Yarding and Temporary Route Work= Ground-based harvesting, tractor yarding, temporary route work, and rehabilitation activities would not occur when soil 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 tracks. These conditions are generally found when soil moisture, at a depth of 4-10 inches, and between 15-25% depending on soil type.

[illegible]

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

Section. 41. Timber Reserved from Cutting -The following timber on this contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government:

- (A) AR-1 All timber on the Reserve Area(s) as shown on Exhibit A 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 Area(s).
- (B) IR-1 Approximately fifty one (51) Douglas-fir trees marked with orange paint above and below stump height in unit 27-3 as shown on Exhibit A.
- (C) IR-2 All timber except approximately two hundred fifty nine (259) Douglas-fir trees, marked for cutting heretofore by the Government with blue paint above and below stump height in roadway clearing Unit 33-6-26, as shown on Exhibit A.
- (D) IR-2 All timber except approximately three hundred eighty seven (387) Douglas-fir trees, within the right-of-way clearing limits on temporary routes 27-1, 27-3, and 27-4 marked with a combination of red and orange flagging for temporary routes as shown on Exhibit A.
- (E) IR-2 All timber except approximately one hundred nineteen (119) Douglas-fir trees, within the right-of-way clearing limits on temporary route 27-1 located on ODF lands marked with a combination of red and orange flagging for construction of a temporary route as shown on Exhibit A.
- (F) IR-6 All leave trees required to meet the Selection Criteria as outlined in Exhibit E, as shown on Exhibit A.
- (G) IR-6 All hardwood trees and non-hazardous snags in commercial thin harvest units shown on Exhibit A.
- (H) IR-6 All pre-existing dead and down wood in commercial thin harvest units shown on Exhibit A.

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Section 42.

(A) Log Exports

- (1) LE-1 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 (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards or specifications suitable for end product uses; or (4) western red cedar lumber which does not meet lumber of American Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timbers regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three quarters (8-3/4) inches in thickness or less; or (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.

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In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a "Certificate as to Nonsubstitution and the Domestic Processing of Timber." The original of such certificate shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

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

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

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

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this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one year.

(B) Logging

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. This written notification must be received by the Authorized Officer no less than seven (7) days prior to the date the Purchaser plans to begin or resume operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of (7) or more days.
- (2) L-3 All trees designated for cutting in commercial thin harvest units 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.
- (3) L-3 All vegetation designated for cutting in the roadway clearing units, outside of the ditchline and road bed surface 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.
- (4) L-4 All conifer trees eight (8) inches or larger D.B.H.O.B. and not reserved in Section 41 nor in Exhibit E shall be felled in all commercial thin and roadway clearing harvest units as shown on Exhibit A.
- (5) L-6 In all harvest units as 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. 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) L-7 In the cable yarding areas of harvest units as shown on Exhibit A, all trees designated for cutting shall be manually felled. Tractor yarding portions of harvest units as shown on Exhibit A may be felled mechanically using a harvester, feller-processor, or feller-buncher with the approval of the Authorized Officer and in accordance with the following specifications:
 - (a) Mechanized felling operations shall be limited to slopes of thirty-five (35) percent or less.
 - (b) Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(B)(14) of this contract.

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- (c) 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.
 - (d) 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.
- (7) L-7MC Yarding on the areas designated herein and shown on Exhibit A shall be done in accordance with the yarding requirements or limitations for the designated area.

| Designated Area | Yarding Requirements or Limitations |
|--|---|
| <u>CABLE UNITS</u> 27-1, 27-3, 27-4 | <p>Yarding shall be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor.</p> <p>A carriage is required which will maintain a fixed position on the skyline during lateral yarding and has a minimum lateral yarding capability of seventy-five (75) feet.</p> <p>Yarding corridors shall be perpendicular to the contours.</p> <p>Prior to applying the Selection Criteria outlined in Exhibit E and/or falling any timber in the unit, all yarding corridors, tail/lift trees, and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.</p> <p>Existing cable corridors shall be used whenever possible. Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.</p> <p>Yarding corridor widths shall not exceed six (6) feet either side of the skyline centerline.</p> <p>Landing size shall not exceed one-quarter (1/4) acre, shall be located along existing roads and/or temporary routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with</p> |

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| <p><u>CABLE UNITS</u> <u>CONTINUED</u></p> <p>27-1, 27-3, 27-4</p> | <p>adequate drainage so that they are not hydrologically connected to the ditchline of roads.</p> <p>Directional falling to lead and away from streams will be required.</p> <p>Cable corridors that are hydrologically connected shall be water-barred and shall have slash placed over them prior to winter rain events to protect water quality.</p> <p>Delivered log lengths shall not exceed (41) feet.</p> |
| <p><u>TRACTOR UNITS</u></p> <p>27-1, 27-2, 27-3, 27-4</p> | <p>Yarding tractor width shall not be greater than nine (9) feet track width and shall be equipped with an integral arch. Skid roads shall not exceed a width of twelve (12) feet on average per unit.</p> <p>Prior to applying the Selection Criteria outlined in Exhibit E and/or falling any timber in the unit, all new skid roads shall be pre-designated by the Purchaser and approved by the Authorized Officer. Yarding tractors shall operate only on tractor skid roads approved by the Authorized Officer.</p> <p>Existing Skid roads shall be used when possible. New skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow. New skid roads must be located on ground less than thirty-five (35) percent slope. Rehabilitate all utilized skid roads that are within two hundred five (205) feet of streams as specified in Sec. 42 (D)(8).</p> <p>Landing size shall not exceed one-quarter (1/4) acre, shall be located along existing roads and/or temporary 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 the ditchline of roads.</p> <p>Directional falling to lead and away from streams will be required. The use of blades while tractor yarding will be limited, equipment shall walk over as much ground litter as possible.</p> <p>Delivered log lengths shall not exceed (41) feet.</p> |

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| <u>ROADWAY CLEARING UNIT</u> 33-6-26 | <p>Mechanical felling required with a single-grip felling head (a head that can hold and fully suspend the tree after it is cut).</p> <p>Yarding shall be done with a system which will fully suspend both ends of the log clear of the ground during inhaul. The Purchaser shall not skid logs on any road, from ditchline to outside shoulder of road, unless approved by the Authorized Officer.</p> <p>Log decks shall only be allowed on the fill slope. Log decks will not be permitted in the ditchline, nor the cutslope, unless approved by the Authorized Officer.</p> <p>Landing size shall not exceed one-quarter (1/4) acre, shall be located along existing roads and/or temporary routes, and shall be approved by the Authorized Officer. No landing creation or expansion shall occur without prior approval from the Authorized Officer. Design landings with adequate drainage.</p> <p>Conifer tops and limbs, hardwoods, brush, and other cut vegetation created from the roadway clearing treatment shall be treated concurrently with felling operations and shall be treated according to the roadway clearing prescription found in Exhibits C-11 and C-12.</p> <p>All mechanized equipment shall only operate on existing road surfaces.</p> <p>Delivered log lengths shall not exceed (41) feet.</p> |
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- (8) L-18 No mechanical ground-based harvesting, ground-based yarding, skid trail and landing rehabilitation, temporary route construction, temporary route reconstruction, or temporary route decommissioning shall be conducted in all 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.
- (9) L-18 No roadway clearing operations shall be conducted in Unit 33-6-26, between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If moisture conditions on the road are deemed acceptable and do not

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result in continuous mud splash or tire slide, fines being pumped through road surfacing from the subgrade, road drainage causing a visible increase in stream turbidities, surface rutting, surface ribboning, or any condition that would result in water being chronically routed into tire tracks or away from designed road drainage during precipitation events, Contracting Officer may approve a conditional waiver. If moisture conditions on the road resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.

- (10) L-18 No haul on natural surface and rocked roads shall be conducted on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If 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) L-20 During logging operations, the Purchaser shall keep all roads, recreation areas, and recreation trailheads, where it passes through the contract area, clear of trees, rock, dirt, and other debris so far as is practicable. The roads shall not be blocked by such operations for more than thirty (30) minutes. The recreation sites shall not be blocked by such operations.
- (12) L-23 Prior to the commencement of operations, the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract which shall include measures needed to assure protection of the environment and watershed. A prework conference between the Purchaser's authorized representative and the Authorized Officer's representative 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 developed by this provision.
- (13) L-25 Before cutting and removing any trees necessary to facilitate logging in the harvest Units 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 the following conditions must be met:

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- (a) All skid roads and cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the minimum width necessary for yarding of logs with a minimum of damage to reserve trees; however, unless otherwise approved in writing by the Authorized Officer, the width of each skid road, and 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 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 Sec. 3.(b). of the contract or sufficient bonding has been provided in accordance with Sec. 3.(d). of the contract.
- (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Sec. 9 of the contract; or, the Authorized Officer determines that incense-cedar trees otherwise reserved in Section 40 B of the contract or any tree that exceeds thirty two (32) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform

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the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Sec. 8 or Sec. 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.

- (f) The Government may reserve trees previously designated for cutting and removal by blacking out blue paint, 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 prescription(s). 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.
 - (14) L-26M Before falling any trees in commercial thin harvest Units 27-1, 27-2, 27-3, and 27-4 as shown on Exhibit A, the Purchaser shall conduct a sample mark as outlined in Exhibit E. Sample area size shall be approximately one-half (½) acre. Identification of leave trees may be done by flagging or paint as approved by the Authorized Officer. Additional marking may be required based on the results of the sample mark. Upon acceptance of the sample mark by the Authorized Officer, the Purchaser may proceed with operations.
 - (15) L-27 In the roadway clearing harvest units shown on Exhibit A, all trees designated for cutting which are within a maximum of fifteen (15) feet slope distance of the edge of the road surface or centerline of the ditch shall be felled within the road prism.
 - (16) L-28 In all cable yarding units, as shown on Exhibit A, the Purchaser shall make cable yarding road changes by completely spooling the cables and restringing the layout from the head spar to the new tailhold to protect advance reproduction and/or reserve trees and snags present on these areas.
- (C) Road Construction - Maintenance – Use

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- (1) RC-1a The Purchaser shall construct, improve and/or renovate all roads and other structures in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) RC-1b Any required construction, improvement, or renovation of structures and roads shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over that road.
- (3) RC-1d The Purchaser shall not commence work on road construction, improvements, or renovations until receiving written notice to do so from the Authorized Officer. Work shall be commenced no later than 5 days after such notice, and shall be completed within 12 months after such notice.
- (4) RC-1f Upon completion of logging activities and slash disposal activities, the Purchaser shall subsoil the entire roadway of all temporary routes in strips of not less than twenty-four (24) inches or more than twenty-eight (28) inches in width to a minimum depth of twelve (12) inches, provided that no subsoiling shall be required where the road traverses rock outcroppings. All natural water courses shall be opened to prevent erosion of the roadways. Barriers shall be constructed so as to prevent further use of the road by vehicles.
- (5) RC-2a The Purchaser is authorized to use the roads listed below and shown on Exhibit C-2 and C-3 which are under the jurisdiction of the Bureau of Land Management, Oregon State Highways, Lone Rock Timber Company, Perpetua Forests Company, or The Oregon Department of Forestry, for the removal of Government timber sold under the terms of this contract, provided that the Purchaser comply with the conditions set forth in Section 42(C)(9) and pay the required rockwear obligation described in Section 42(C)(6) and Section 42(C)(7). The Purchaser shall pay current Bureau of Land Management rockwear fees for the sale of additional timber under modification to the contract.

| Road No. and Segment | Length Miles Used | Road Control | Road Surface Type |
|----------------------|-------------------|-----------------------|-------------------|
| 33-6-26.0 A1 | 0.11 | Oregon State Highways | GRR |
| 33-6-26.0 A2 | 0.19 | Perpetua | GRR |
| 33-6-26.0 A3 | 0.20 | Oregon State Highways | GRR |
| 33-6-26.0 B | 0.47 | BLM | GRR |
| 33-6-26.0 C | 1.53 | BLM | GRR |
| 33-6-26.0 D | 0.20 | Oregon | GRR |

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| | | | |
|--------------|------|-------------------------------|-----|
| | | Department of Forestry | |
| 33-6-27.0 A1 | 0.26 | BLM | GRR |
| 33-6-27.0 A2 | 0.07 | Lone Rock | GRR |
| 33-6-27.0 A3 | 0.27 | BLM | GRR |
| 33-6-27.0 B | 0.02 | Oregon Department of Forestry | GRR |
| 33-6-27.2A | 0.45 | BLM | GRR |
| 33-6-27.3 | 0.41 | BLM | GRR |

- (6) RC-2e_(rw) Provided, that the Purchaser shall pay a road rockwear fee of \$0.51 per thousand board feet log scale per mile for the use of said roads specified in Section 42(C)(5). The total rockwear fee due shall be based upon volumes determined pursuant to Section (2 and 3) of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser shall give written notice to the Authorized Officer of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads. **The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer.** The Authorized Officer shall establish an installment schedule of payment of the rockwear obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total rockwear payments made under this contract exceed the total rockwear payment due, such excess shall be returned to the Purchaser within sixty (60) days after such determination is made.
- (7) RC-2e_(LA) The Purchaser shall pay an estimated road maintenance fee for each License Agreement specified in Section 42(C)(10), Section 42(C)(11), and Section 42(C)(12) per thousand board feet log scale per mile for the use of roads specified in Section 42(C)(5). The total maintenance fee due to each Licensor shall be based upon volumes determined pursuant to Section (2 and 3) of this contract and mileage of roads used as determined by the Authorized Officer. Prior to the use of such roads, the Purchaser (Licensee) shall give written notice to the Authorized Officer and Licensor of the roads intended for use in the removal of timber purchased under this contract, together with an estimate of the volume to be hauled over such roads from each unit. **The Purchaser will be required to label, with a permanent ink marker, each load ticket with the corresponding unit number as directed by the Authorized Officer.** The Licensee shall comply with the terms of License Agreements for the use of roads listed in

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Section 41(C)(5), for the payment of fees and final fee reconciliation with Licensor upon report of final volume removed as determined by the Authorized Officer.

- (8) RC-2f The Authorized Officer may at any time by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance fees for the particular surface type of the road(s) involved. These fees will be applied to the remaining contract volume on the sale area to be transported over road or roads listed in Section 41(C)(5). The Purchaser shall pay the total maintenance amount for said road(s) within thirty (30) days following receipt of written notice; provided, however, that if the total amount exceeds five hundred and no/100 dollars (\$500.00), the Purchaser may elect to make payment in installments in the same manner as and together with payments required in Section 3 of this contract.
- (9) RC-2h The Purchaser shall perform any required road repair and maintenance work on roads used by him, under the terms of Exhibit D, "Road Maintenance Specifications," of this contract, which is attached hereto and made a part hereof.
- (10) RC-3 In the use of road No.33-6-26.0 A2, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-2000EA between the United States of America and Perpetua Forests Company. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.
- (11) RC-3 In the use of road No.33-6-27.0 A2, the Purchaser shall comply with the conditions of Right-of-Way and Road Use Agreement No. M-768 between the United States of America and Lone Rock Timber Company. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.

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- (12) RC-3 In the use of road Nos. 33-6-26.0 D and 33-6-27.0 B, the Purchaser shall comply with the conditions of the Memorandum of Understanding dated 25 May, 2000 between the United States of America and Oregon Department of Forestry. These conditions include: Payment to Oregon Department of Forestry, an estimated rockwear obligation of **eleven and 22/100 (\$11.22)** payable at the time indicated in the license agreement. This document is available for inspection at the Bureau of Land Management, Medford Interagency Office, 3040 Biddle Road, Medford, Oregon 97504. Prior to the use of said road, the Purchaser shall furnish the Authorized Officer a copy of the executed License Agreement. 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.
- (13) RC-3d The Purchaser agrees that if they elect to use any other private road which is the subject of a right-of-way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.
- (14) RC-4 No logging or hauling operations on the contract area shall be undertaken until the Purchaser has secured from the appropriate official of the Oregon State Department of Forestry; Memorandum of Understanding, permission for the use of roads 33-6-26.0 D and 33-6-27.0 B as shown on Exhibit C and permission to construct Temp Route LP27-1. Right-of-Way timber from LP27-1 will have to be paid for when permission to use and construct roads is secured. No road use fees are required to be paid by the Purchaser under this permit. Prior to use of said roads and construction of Temp Route LP27-1, the Purchaser shall furnish the Authorized Officer a copy of the permission document and a copy of the receipt showing fees and Right-of-Way timber has been paid.
- (15) RC-8 The Purchaser shall be required to secure written approval to use vehicles or haul equipment over Government owned or controlled roads and/or structures when that vehicle or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.

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

Details shall include:

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

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

(D) Environmental Protection

- (1) E-1 In addition to the requirement set forth in Section 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) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the

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Purchaser shall only use certified weed-free hay and native grass seed species approved by the Authorized Officer for rehabilitation activities. All seeding shall be contingent upon seed availability.

- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) E-1 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.
- (6) E-1 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 dry draws and swales. If landing location cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (7) E-1 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 existing landings that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines.
- (8) E-1 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 and rehabilitate temporary routes, landings, corridors, skidtrails 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 headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer.

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- (9) E-1 In addition to the requirement set forth in Section 26 of this contract, the Purchaser shall as directed by the Authorized Officer rehabilitate all temporary routes, and all landings outside of the road prism 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 eighteen (18) inches, and no further than thirty six (36) inches apart.
 - 3. Ripping will occur before **October 15** of the year of harvest.
 - 4. Any step landings shall be re-contoured following use.
 - (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.
- All rehabilitation shall occur within twenty four (24) months of harvest and during the dry season.
- (10) E-1 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.
- (11) E-2 The water bars to be constructed as required by Sec. 26(c) shall be constructed in accordance with the specifications shown on Exhibit C-7, which is attached hereto and made a part hereof.
- (12) E-4 The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
- (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of

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consultation is required concerning the species prior to continuing operation, or;

- (b) when, in order to comply with the Endangered Species Act the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
- (e) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
- (g) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines 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

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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.h. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

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

In the event that 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 occupied marbled murrelet sites in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer

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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, marbled murrelet occupied site protection in accordance with the ROD and RMP, 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.

(E) Miscellaneous

- (1) M-2 The Government at its option may check scale any portion of the timber removed from the contract area. The Purchaser hereby agrees to make such contract timber available for scaling at a location designated by the Authorized Officer. In the event that BLM elects to 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 ***eight hundred and ninety seven dollars (\$897.00)***. In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of ***eight hundred and ninety seven dollars (\$897.00)***, 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

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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.

(F) Fire Prevention and Control

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

- (a) Prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the State of Oregon, Department of Forestry.
- (b) Provide and maintain in good repair, on the contract area, the following equipment for use during closed fire season or periods of fire danger:

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

The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall not be less than four (4) tools in each box nor less than one (1) tool for each person working on the contract area. Three-fourths ($\frac{3}{4}$) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

- 2. F-2b A round pointed size "0" or larger shovel in good condition shall be within fifty (50) feet of any power saw when in operation.
- 3. F-2c At each landing during periods of operation one (1) tank trucks. Each truck shall have three hundred (300) gallons minimum capacity with five hundred (500) feet minimum of hose and a nozzle acceptable to the Authorized Officer and a mounted or portable pump conforming to the standards set forth in Oregon Revised Statute ORS 477.645 through ORS 477.670 and any rule promulgated pursuant to those statutes. All hose couplings shall have the standard thread adopted by the State Fire Marshall

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pursuant to ORS 476.410 as amended or be provided with suitable adapters. At the close of each working day, all bulldozers and tank trucks shall be filled with fuel and made ready for immediate use. All tank trucks and portable tanks shall be filled with water and made available for immediate use.

4. F-2d Serviceable radio or radio-telephone equipment able to provide prompt and reliable communication between the contract area, the Medford BLM District Office, and Oregon Department of Forestry. Such communication shall be available during periods of operation including the time watch-service is required.
5. F-2e A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire trails at night.
6. F-2f A headlight for each person in the woods crew adequate to provide sufficient illumination for night fire fighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. It shall be equipped with a battery case so designed that it can be either carried in the hip pocket or fastened to the belt. The head of the light and the battery case shall be connected by insulated wires. At least one extra set of batteries shall be provided for each such headlight.
7. F-2g Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
8. F-2h A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Oregon State Forester shall be carried during the closed fire season or periods of fire danger by each saw operator using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. A size "0" or larger shovel shall be available with each gas can when refueling. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Oregon State Forester.

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9. F-5 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.

(G) Slash Disposal and Site Preparation

- (1) SD-1 Fire Hazard Reduction. In addition to the requirements of Sec. 15 of this contract, and notwithstanding the Purchaser's satisfactory compliance with State laws and regulations regarding offsetting or abating the additional fire hazard created by this operation and the State's willingness to release the Purchaser from liability for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction measure(s) required by this contract:

Prior to commencement of any operation under this Section G of the contract, a slash disposal and pre-work conference between the purchaser's representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal shall be done in accordance with the plans developed at this pre-work conference. Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of purchasers operations under the terms of this contract.

- (a) SD-1a Lop and Scatter. Lop and scatter all slash located in units as directed by the Authorized Officer. All cut slash (any material less than six inches in diameter) shall be lopped to no more than eight (8) feet in length and all top and side branches must be free of the central stem so that slash is reduced to the extent that it is within eighteen (18) inches of the ground at all points. All slash shall be arranged in a discontinuous pattern across the forest floor.
- (b) SD-1c Hand Piling Hand pile and cover all slash located within one hundred (100) feet of roads where the road coincides with commercial thin harvest unit boundaries as directed by the Authorized Officer in accordance with the following specifications:
 1. Piling shall be accomplished by hand. Finished piles shall be tight and free of earth.

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2. Pile all slash which is between one (1) inch and six (6) inches in diameter on the large end and exceeds two (2) feet in length.
 3. Piles shall be placed within unit boundaries, however, outside of wildlife buffers, roadways, turnouts, shoulders, or cut banks. No piles shall be placed on down logs or stumps. No piles shall be placed adjacent to or within twenty five (25) feet of commercial thin unit boundaries. Finished piles shall be tight and free of earth.
 4. A five (5) foot by five (5) foot cover of 4 mm black plastic shall cap each handpile to maintain a dry ignition point. The cover shall be firmly fixed to the pile to hold it in place. Approximately one third ($\frac{1}{3}$) of the pile shall lie above this plastic cover. The ignition point will consist of fine fuel material such as needles, small limbs, and branches less than one half ($\frac{1}{2}$) inch in diameter and free of dirt. Piles shall be constructed by aligning individual pieces in the same direction and placing the heavier slash on top. Piles shall have a stable base to prevent toppling. The long axis of individual pieces shall be oriented up and down the slope. Protruding pieces shall be trimmed to allow covering in a manner that permits the pile to shed water. Height shall be no less than five (5) feet and no greater than eight (8) feet; width shall be no less than six (6) feet and shall not exceed eight (8) feet; piles shall be circular and not windrowed. No pile shall be located in any stream channel; on down logs or stumps; within ten (10) feet of any other pile or the trunk of the nearest living reserve tree. No portion of the pile will be under the crown of any living tree.
- (c) SD-1d Operations required by this provision shall be kept current with yarding as directed by the Authorized Officer and shall be conducted as follows:
1. Units shall be piled and covered during the same season that they are logged.
 2. Landing piles and handpiles located on temporary routes, skid trails, or landings would be burned, chipped, or otherwise removed from these sites within eighteen (18) months of unit harvest completion.
- (d) SD-1e LANDING SLASH Pile all slash situated in harvest unit landings and within twenty (20) feet of each finished pile. Clear down to mineral soil within twenty (20) feet of each finished pile. Slash shall be piled by

LONDON PEAK SPECIAL PROVISIONS

machine or hand and piles shall be located in tractor skid trails, cable yarding corridor chutes, or on landings located away from reserve trees, snags, and coarse woody debris. Finished piles shall be tight and free of earth.

1. A ten (10) foot by ten (10) foot cover of 4 mm black plastic shall cap each pile to maintain a dry ignition point. The cover shall be firmly fixed to each pile to hold it in place.
- (e) SD-4a SLASHING DAMAGED RESIDUALS Slash all sprung or otherwise severely damaged trees between one (1) inch and eight (8) inches D.B.H.O.B. concurrently with logging as directed by the Authorized Officer in all harvest units as shown on Exhibit A.
- (2) SD-5 Perform logging residue reduction and site preparation work on approximately fifty six (56) acres of harvest area located in Harvest Unit No.(s) 27-1, 27-2, 27-3, and 27-4 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 | Description | Cost/Acre |
|-----------------------|-------------------------|-----------|
| Lop and Scatter L1 | < 12 tons/acre | \$30.00 |
| Lop and Scatter L2 | 13-20 tons/acre | \$40.00 |
| Handpile and Cover L1 | 0-20 piles/acre | \$330.00 |
| Handpile and Cover L2 | 21-40 piles/acre | \$370.88 |
| Handpile and Cover L3 | 41-60 piles/acre | \$485.00 |
| Cover Landing Decks | < 40 landing piles/acre | \$35.00 |

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

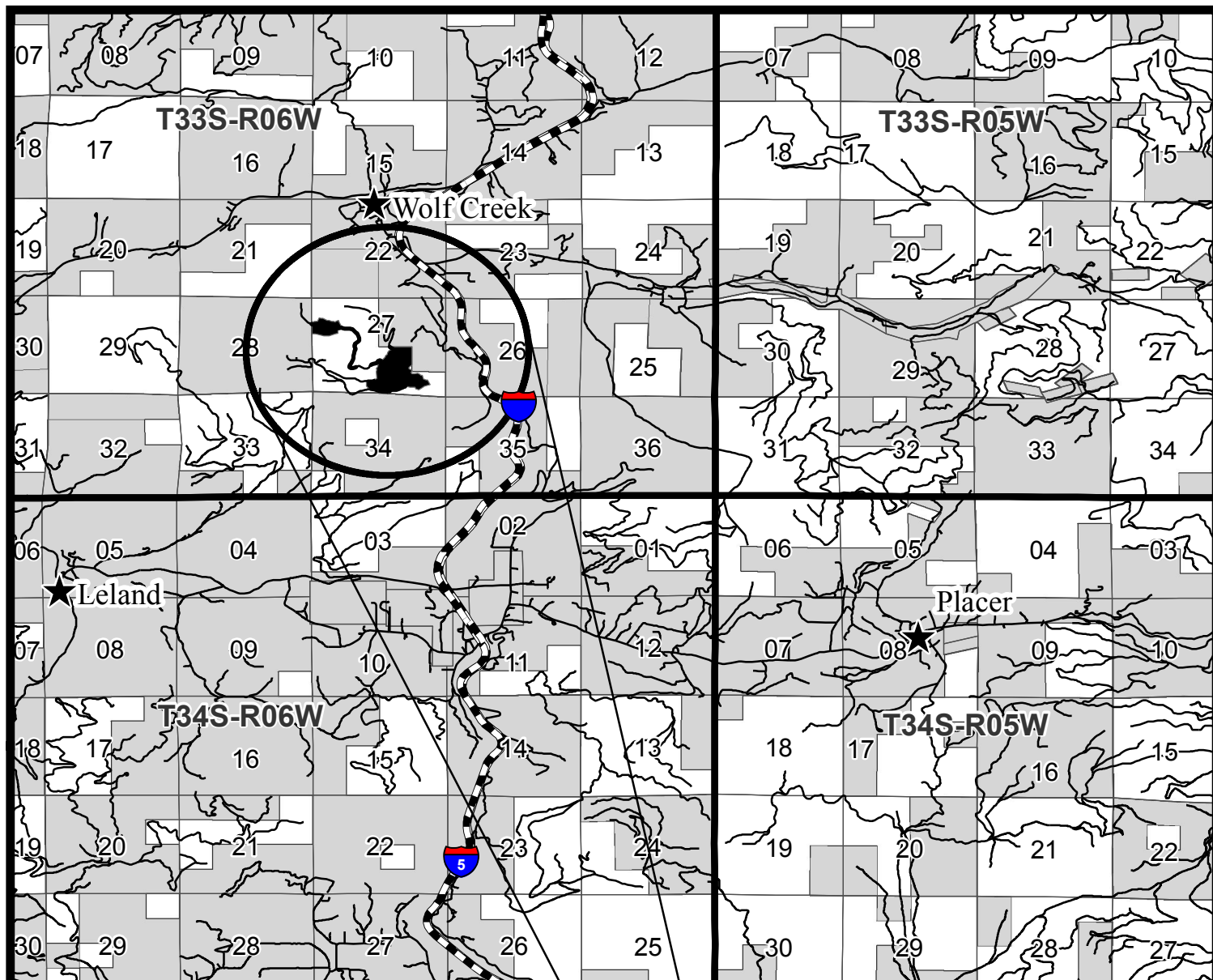
| Appraised Treatment | Acres | Cost/Acre | Total Cost Per Treatment |
|-----------------------|-------|-----------|--------------------------|
| Lop and Scatter L2 | 25 | \$40.00 | \$1,000.00 |
| Handpile and Cover L2 | 21 | \$370.88 | \$7,788.48 |

LONDON PEAK SPECIAL PROVISIONS

| | | | |
|----------------------|----|---------|------------|
| Cover Landing Decks | 10 | \$35.00 | \$350.00 |
| Total Appraised Cost | | | \$9,138.48 |

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(G)(2)(a) differs from \$9,138.48 as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(G)(2)(a).
- (H) Equal Opportunity in Employment Certification of Non-segregated Facilities attached hereto and made a part hereof.

SALE LOCATION MAP



Legend

- | | | | | |
|----|------------------------|--------|----------|-----------------------|
| 31 | 32 | 33 | 34 | 35 |
| | Timber Sale Units | | Township | County |
| | Roadway Clearing Units | | Sections | |
| 06 | | Cities | 04 | |
| | Interstate 5 Highway | | 03 | Federal Ownership |
| | Roads | | 02 | Non-Federal Ownership |

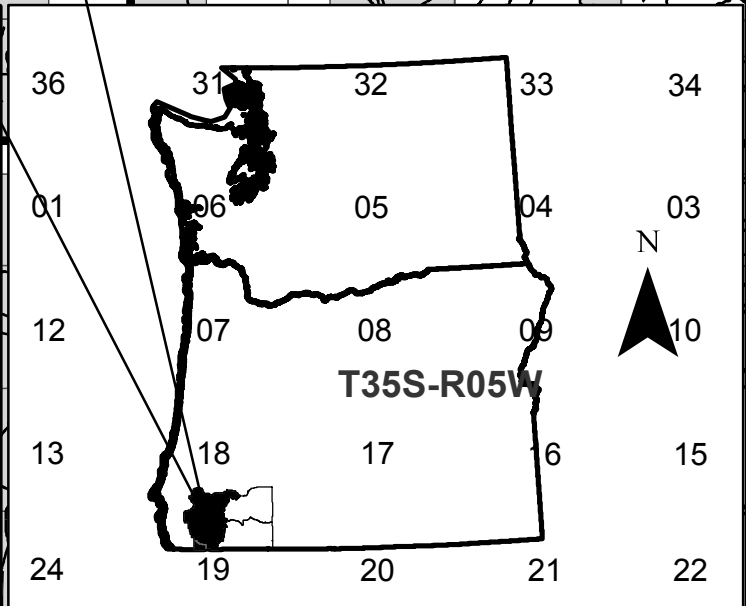
07 08 09 10 11
London Peak Timber Sale Area

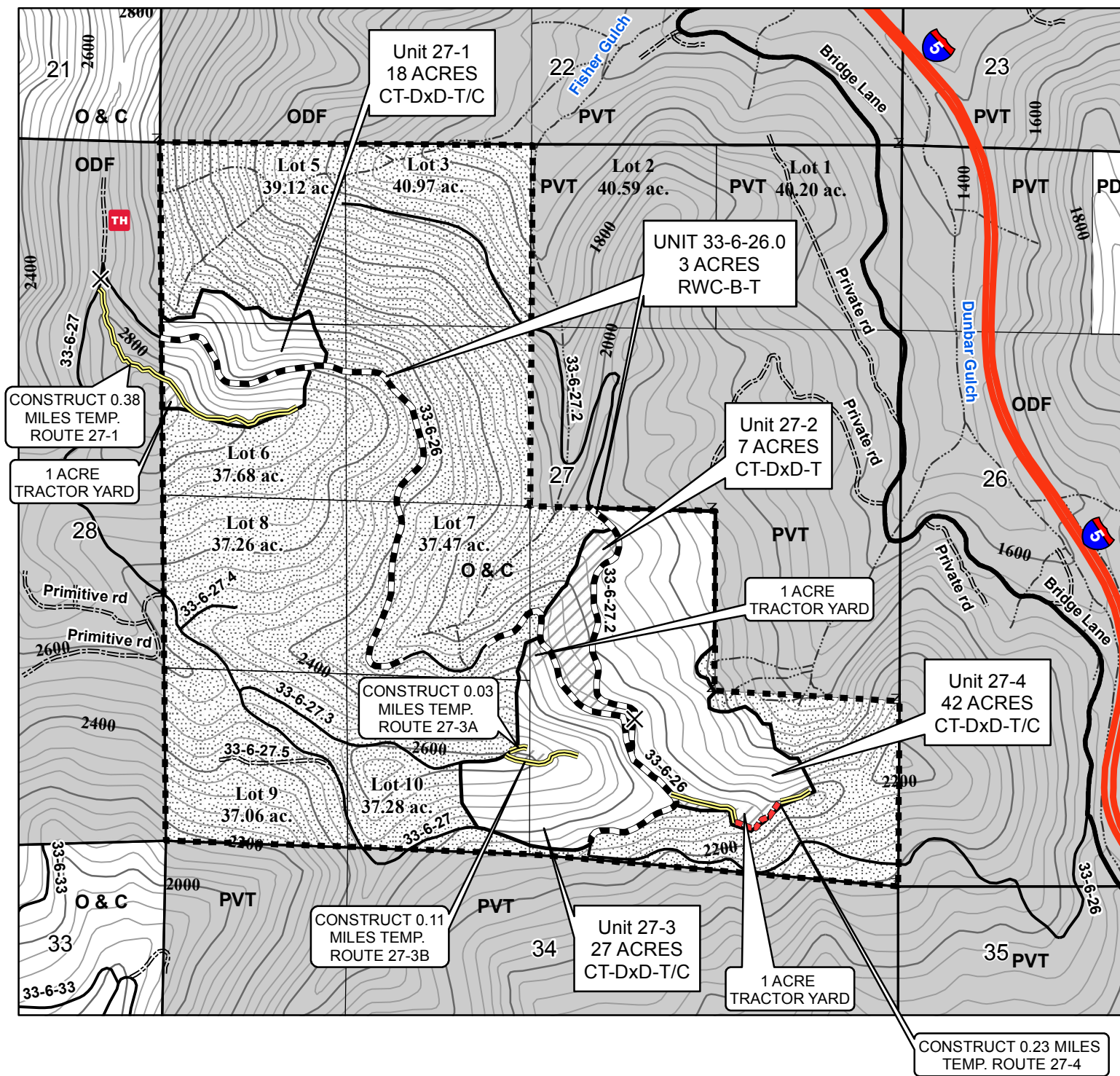
T35S-R06W



18 17 16 15 14
0 2,500 5,000 10,000 15,000 20,000 Feet
Miles

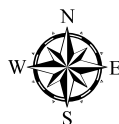
No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled from various sources and may be updated without notification.





0 750 1,500 3,000 Feet

1 inch = 1,000 feet



40 FOOT CONTOUR INTERVAL

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


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.


Map created by SQF
10/11/2012





Legend


London Peak Commercial Thin Unit


- 


Cable Yard
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
Tractor (ground-based) Harvest and Yard
- 


Roadway Clearing Unit
- 


Contract Area Boundary
- 


Reserve Area
- 


London Peak TS Temporary Route Construction
- 


London Peak TS Temporary Route Re-construction
- 


Brass Cap
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London Peak Trailhead
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Road Blocked
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Interstate 5
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
Paved Road
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Rocked Road
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Natural Surface Road
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
Stream
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
Intermediate 40-ft contour
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Index 200-ft contour
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Lot
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Section
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Township
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

BLM O&C Ownership
- 

BLM Public Domain Ownership
- 

Oregon Department of Forestry Ownership
- 

Private Ownership

SUMMARY

| | | |
|--|---|--------------|
| CT-DxD-T | COMMERCIAL THIN-DESIGNATION BY DESCRIPTION-TRACTOR YARD (UNITS 27-2) | 7 ACRES |
| CT-DxD-T/C | COMMERCIAL THIN-DESIGNATION BY DESCRIPTION-TRACTOR YARD AND CABLE YARD (UNITS 27-1, 27-3, 27-4) | 87 ACRES |
| RWC-B-T | ROADWAY CLEARING-BLUE MARK CUT TREE-TRACTOR YARD (UNITS 33-6-26.0) | 3 ACRES |
|   | TOTAL TIMBER SALE UNIT AREA | 97 ACRES |
|  | RESERVE AREA | 329.84 ACRES |
|  | TOTAL CONTRACT AREA | 426.84 ACRES |

LEGEND

| UNIT | ACRES | HARVEST TYPE | PAINT COLOR | LOGGING SYSTEM |
|-----------|-------|-----------------|----------------|-------------------|
| 27-1 | 18 | CT | TBD | T/C |
| 27-2 | 7 | CT | TBD | T |
| 27-3 | 27 | CT | TBD | T/C |
| 27-4 | 42 | CT | TBD | T/C |
| 33-6-26.0 | 3 | RWC | B | T |

TOTAL 97

ALL ACRES COMPUTED BY GPS TRAVERSE
BOUNDARIES OF HARVEST UNITS ARE POSTED AND PAINTED IN ORANGE

CT = COMMERCIAL THIN

RWC = ROADWAY CLEARING

B = BLUE PAINT (CUT TREE MARK)

TBD = PAINT COLOR USED BY PURCHASER TO MEET EXHIBIT E MARKING
GUIDELINES TO BE DETERMINED BY AUTHORIZED OFFICER

T = TRACTOR (GROUND-BASED) YARDING

C = CABLE YARDING

T/C = TRACTOR (GROUND-BASED) AND CABLE YARDING

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

Medford
London Peak
TS 13-02

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

| Species | Net Volume | Bid Price | Sale SubTotal |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 1,196 | | |
| Sale Totals | 1,196 | | |

Unit Details (16' MB)

Unit 27-1 **17 Acres** **Value per Acre : \$0.00**

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 165 | | |
| Unit Totals | 165 | | |

Unit 27-1RW **1 Acres** **Value per Acre : \$0.00**

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 17 | | |
| Unit Totals | 17 | | |

Unit 27-2 **7 Acres** **Value per Acre : \$0.00**

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 23 | | |
| Unit Totals | 23 | | |

Unit 27-3 **26 Acres** **Value per Acre : \$0.00**

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 418 | | |
| Unit Totals | 418 | | |

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

Medford
London Peak
TS 13-02

Unit 27-3RW 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 19 | | |
| Unit Totals | 19 | | |

Unit 27-4 41 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 497 | | |
| Unit Totals | 497 | | |

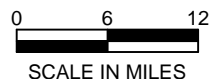
Unit 27-4RW 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 14 | | |
| Unit Totals | 14 | | |

Unit 33-6-26 3 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 43 | | |
| Unit Totals | 43 | | |

EXHIBIT C1
SHEET 1 OF 1



*ALWAYS
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SAFETY*

| EXHIBIT NO. | DESCRIPTION |
|-------------|---|
| C1 | TITLE SHEET |
| C2 | ROAD LOCATION MAP |
| C3 | ESTIMATE OF QUANTITIES |
| C4 | SPECIFICATION SHEET |
| C5 | TYPICAL ROAD DATA SHEET |
| C6 | DRAINAGE & EROSION CONTROL INSTALLATION |
| C7 | ROAD CLOSURE |
| C8 | ROADSIDE BRUSHING DETAIL |
| C9 | ROAD RENOVATION WORKLIST |
| C10 | WRITTEN SPECIFICATIONS |
| C11 | SPECIAL PROVISIONS |
| C12 | ROADWAY CLEARING DETAIL |
| D1 | ROAD MAINTENANCE SPECIFICATIONS |
| D2 | ROAD MAINTENANCE MAP |
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| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE ROAD RENOVATION MAP | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: ELF | | SCALE: 1" = 1,500' | |
| DATE: OCT 2012 | | SHEET: 1 OF 1 | |
| DRAWING NO.: OR-11-9113.4-1 | | | |

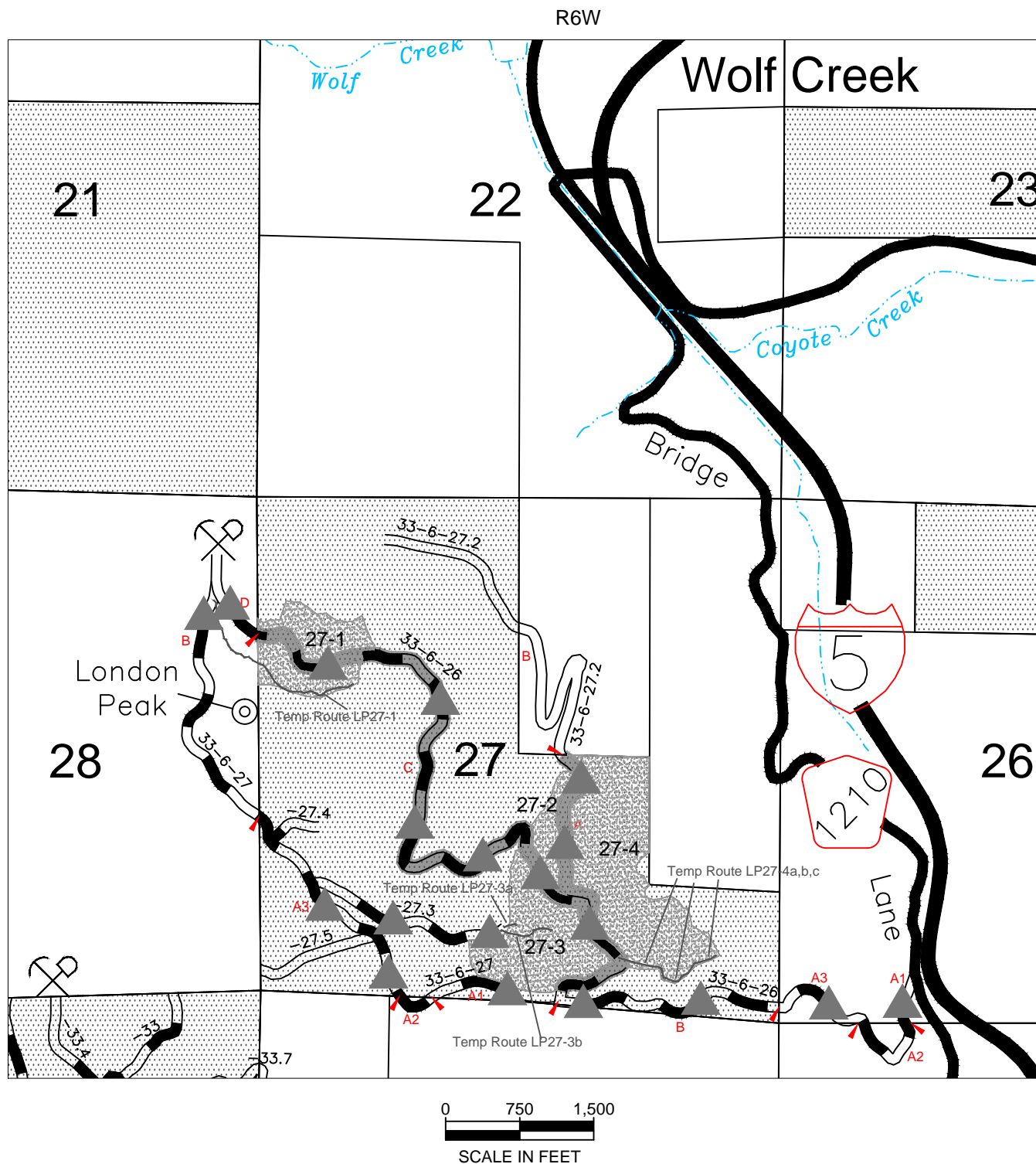




EXHIBIT C3

SHEET 1 OF 1

LONDON PEAK TIMBER SALE
TRACT NO. ORM07-TS13-02

| ROAD NUMBER | FROM | TO | LENGTH | CLEARING AND GRUBBING | EXCAVATION | | CORRUGATED METAL PIPE | | | | | | | | RENOVATION | Barricades | WATERBARS | AGGREGATE | | | | EROSION CONTROL | SOIL STABILIZATION | ROADSIDE BRUSHING AND CHIPPING | |
|---|------|------|--------|-----------------------------|------------|--------|-----------------------|------|------|------|--------|---------------|------|---------------|------------|------------|-----------|------------|-------------------------|----------------------------|---------------------------|--------------------|-----------------------|---|------|
| | | | | | ROCK | COMMON | SIZE | | | | ELBOWS | DOWNSPOUT | | | | | | PIT RUN | CRUSHED BASE ROCK | CRUSHED SURFACE ROCK | EXISTING STOCK PILE | | | | |
| | | | | | | | 18" | 24" | 30" | 36" | | FULL ROUND | | HALF ROUND | | | | | | | | | | | |
| | | | | | | | | | | | | 18" | 24" | 18" | | | | | | | | | | | 24" |
| SPECIFICATION NO.  | | | | 200 | 300 | 300 | 400 | | | | 400 | 400 | | | | 500 | | | 700 | 1000 | 1200 | | 1700 | 1800 | 2100 |
| UNIT  | MP | MP | MILE | ACRE | C.Y. | C.Y. | L.F. | L.F. | L.F. | L.F. | EA. | L.F. | L.F. | L.F. | L.F. | MILE | EA. | EA. | C.Y. | C.Y. | C.Y. | C.Y. | ACRE | ACRE | MILE |
| 33-6-26.0A1-D | 0.00 | 2.70 | 2.70 | | | | | | | | | | | | | 2.70 | | | | | 1,234 | | | | 2.70 |
| 33-6-27.0A1-A3 | 0.00 | 0.60 | 0.60 | | | | | | | | | | | | | 0.60 | | | | | | | | | 0.60 |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | | | | | | | | | | | | | 0.02 | | | | | | | | | 0.02 |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | | | | | | | | | | | | | 0.45 | | | | | | | | | 0.45 |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | | | | | | | | | | | | | 0.41 | | | | | | | | | 0.41 |
| Temp Route 27-1 | 0.00 | 0.38 | 0.38 | 0.90 | | | | | | | | | | | | | 1 | 20 | | | | | | 0.90 | |
| Temp Route 27-3a | 0.00 | 0.03 | 0.03 | 0.07 | | | | | | | | | | | | | 1 | 1 | | | | | | 0.07 | |
| Temp Route 27-3b | 0.00 | 0.11 | 0.11 | 0.25 | | | | | | | | | | | | | 1 | 5 | | | | | | 0.25 | |
| Temp Route 27-4a | 0.00 | 0.10 | 0.10 | 0.24 | | | | | | | | | | | | | 1 | 5 | | | | | | 0.24 | |
| Temp Route 27-4b | 0.10 | 0.18 | 0.08 | 0.19 | | | | | | | | | | | | | | 4 | | | | | | 0.19 | |
| Temp Route 27-4c | 0.18 | 0.22 | 0.04 | 0.10 | | | | | | | | | | | | | | 2 | | | | | | 0.10 | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | 4.90 | 1.75 | | | | | | | | | | | | 4.18 | 4 | 37 | | | 1,234 | | | 1.75 | 4.18 |

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

| SIZE | GRADATION |
|------------|-----------|
| 4 inch | A |
| 3 inch | B |
| 2 inch | C |
| 1 1/2 inch | D |

ITEM 1000

| SIZE | GRADATION |
|--------|-----------|
| 3 inch | A,C,F |
| 2 inch | B,D,G,H |

ITEM 1200

| SIZE | GRADATION |
|------------|-----------|
| 1 1/2 inch | C,C-1 |
| 1 inch | D,D-1 |
| 3/4 inch | E,E-1 |

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

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THINK
SAFE

| | | | |
|---|---|---------------|---------|
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| | UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | |
| LONDON PEAK TIMBER SALE ESTIMATE OF QUANTITIES | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: JAB | | SCALE: NONE | |
| DATE: OCT 2012 | | SHEET: 1 OF 1 | |
| DRAWING NO.: OR-11-9113.4-1 | | | |

EXHIBIT C4

SHEET 1 OF 2

LONDON PEAK TIMBER SALE
TRACT NO. ORM07-TS13-02

| ROAD NUMBER | FROM | TO | LENGTH | TYPICAL STATION TYPE | ALIGNMENT | ROAD WIDTH ¹⁻³ | | GRADIENT | | BRUSHING WIDTH | | | | SURFACING ³ | | | | | | | | REMARKS | | |
|-----------------|------|------|--------|----------------------------|-------------------------------|---------------------------|-------|----------------------|--------------------|----------------|----------|---------------------|---|------------------------|---------------------|-------------------|---------|------------------|---------------------|-------------------|---------|---------|--|--|
| | | | | | MAXIMUM DEGREE OF CURVE | SUBGRADE | DITCH | MAXIMUM FAVORABLE | MAXIMUM ADVERSE | BEYOND | | EXISTING ROAD(S) | | BASE COURSE | | | | SURFACE COURSE | | | | | | |
| | | | | | | | | | | TOP CUT | TOE FILL | L | R | MINIMUM WIDTH | COMPACTION DEPTH | TYPE ² | GRADING | MINIMUM WIDTH | COMPACTION DEPTH | TYPE ² | GRADING | | | |
| 33-6-26.0A1 | 0.00 | 0.11 | 0.11 | 6 | | 16 | 3 | | | | | | | | | | | | | | | | | |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 | 6 | | 16 | 3 | | | | | | | | | | | | | | | | | |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 | 6 | | 16 | 3 | AS-BUILT | AS-BUILT | | | | | | | | | | | | | | | |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 | 6 | | 16 | 3 | | | | | | | | | | | | | | | | | |
| 33-6-26.0 C | 0.97 | 2.50 | 1.53 | 6/4 | | 14 | 3/0 | | | | | | | | | | | | | | | | | |
| 33-6-26.0 D | 2.50 | 2.70 | 0.20 | 4 | | 14 | 0 | | | | | | | | | | | | | | | | | |
| 33-6-27.0 A1-A3 | 0.00 | 0.60 | 0.60 | 6 | | 14 | 3 | | | | | | | | | | | | | | | | | |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | 3 | | 14 | 0 | | | | | | | | | | | | | | | | | |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | 4 | | 14 | 0 | | | | | | | | | | | | | | | | | |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | 4 | | 16 | 0 | | | | | | | | | | | | | | | | | |

NOTES

1. EXTRA SUB-GRADE WIDTHS

TO EACH FILL SHOULDER ADD 1 FOOT FOR FILLS OF 1-6 FEET AND 2 FEET FOR FILLS OVER 6 FEET. WIDEN THE INSIDE SHOULDER OF ALL CURVES AS FOLLOWS: WHEN THE DEGREE OF CURVE EQUALS:

7-21 ADD 1 FT.
22-35 ADD 2 FT.
36-48 ADD 3 FT.
49-64 ADD 4 FT.
65-96 ADD 5 FT.

| MATERIALS | CUT SLOPE | FILL SLOPE |
|-------------------|-----------|-----------------|
| COMMON | 1/2 : 1 | 1 1/2 : 1 |
| SOFT ROCK & SHALE | 1/2 : 1 | 1 1/2 : 1 |
| SOLID ROCK | 1/2 : 1 | angle of repose |

2. SURFACING TYPES

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

3. TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUB-GRADE WIDTH, OR AS SHOWN ON THE PLANS.
- B. LOCATED APPROXIMATELY, AS SHOWN ON THE ROAD PLANS.
- C. INVISIBLE AND NOT MORE THAN 750 FT. APART.

4. SURFACING

TURNOUTS, CURVE WIDENING, AND ROAD APPROACH APRONS SHALL BE SURFACED.

5. CLEARING WIDTH

SEE SUBSECTION 2100

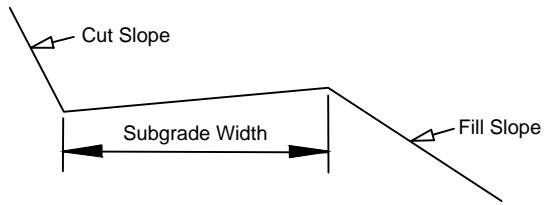
ALWAYS
THINK
SAFELY

| | | | |
|---|-------------|---------------|---------|
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE SPECIFICATION SHEET | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: JAB | | SCALE: NONE | |
| DATE: OCT 2012 | | SHEET: 1 OF 2 | |
| DRAWING NO.: OR-11-9113.4-1 | | | |

EXHIBIT C4

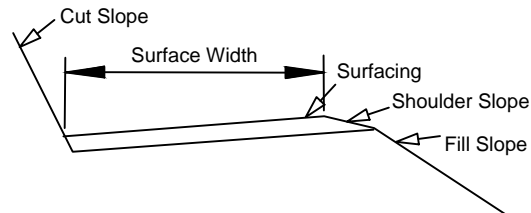
SHEET 2 OF 2

LONDON PEAK TIMBER SALE
TRACT NO. ORM07-TS13-02



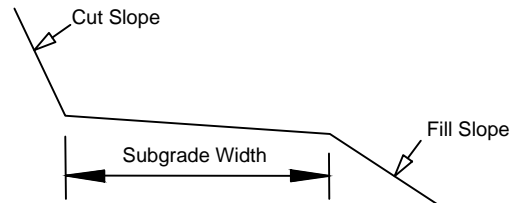
TYPICAL GRADING SECTION

TYPE 1



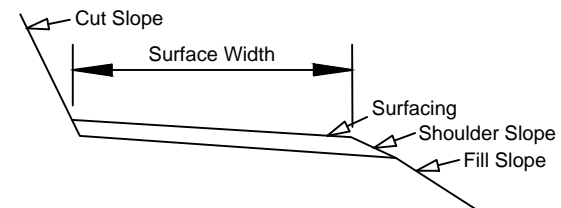
TYPICAL SURFACING SECTION

TYPE 2



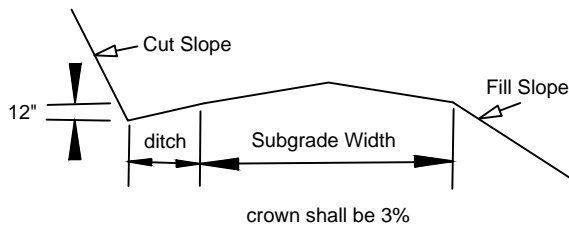
TYPICAL GRADING SECTION

TYPE 3



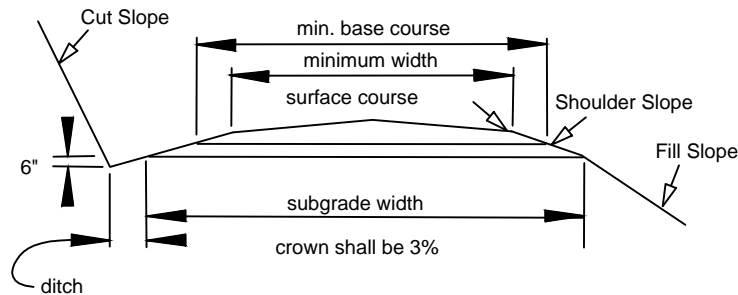
TYPICAL SURFACING SECTION

TYPE 4



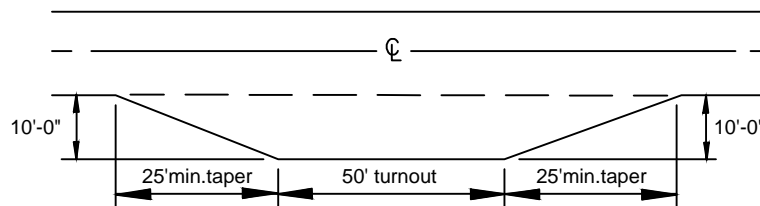
TYPICAL GRADING SECTION

TYPE 5



TYPICAL SURFACING SECTION

TYPE 6



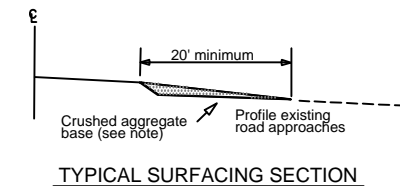
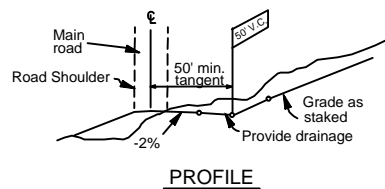
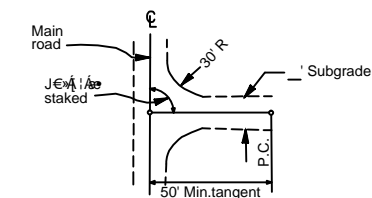
TYPICAL TURNOUT

PLAN VIEW

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THINK
SAFETY

| | | | |
|---|-------------|---------------|---------|
| | | | |
| | | | |
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE SPECIFICATION SHEET | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: JAB | | SCALE: NONE | |
| DATE: OCT 2012 | | SHEET: 2 OF 2 | |
| DRAWING NO.: OR-11-9113.4-1 | | | |

TYPICAL ROAD APPROACHES



NOTES:

1. The profile of the existing approach roads shall be tapered to meet the shoulder line of the main roadway and shall receive the same wearing surface.
2. The crushed aggregate base shall be of the same gradation as used in the adjacent roadbed.
3. Approaches shall be finished with the same treatment as shown for the adjacent roadbed.

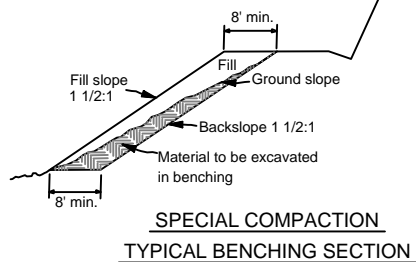
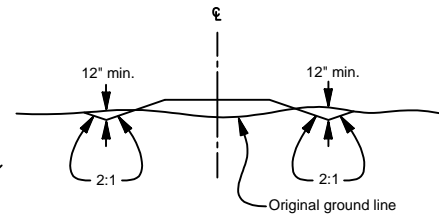
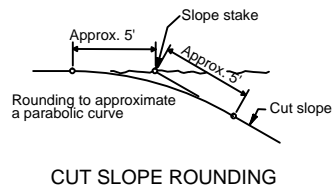
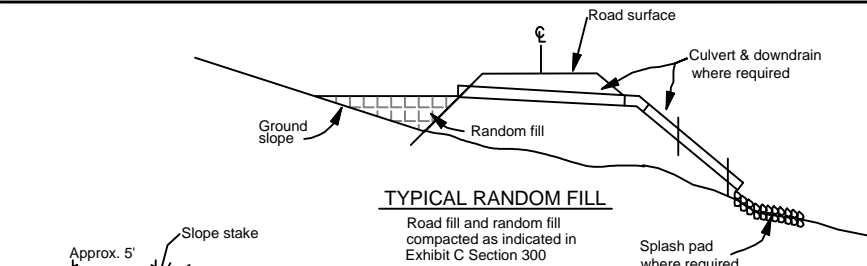
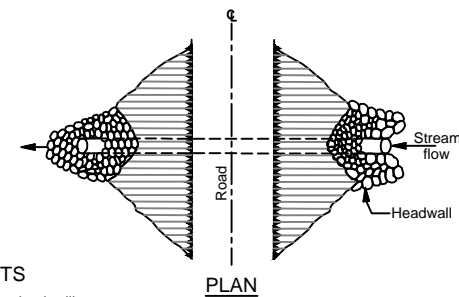
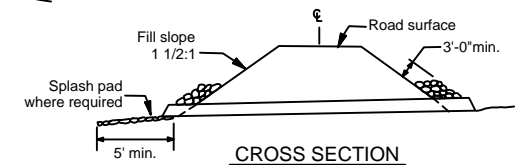
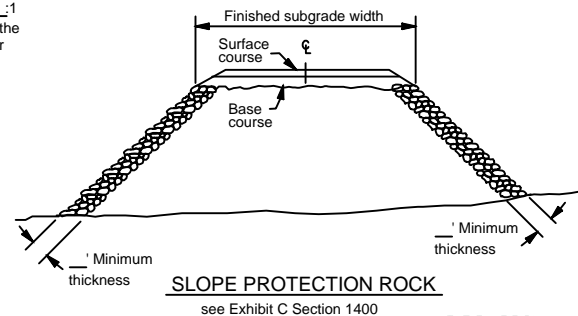
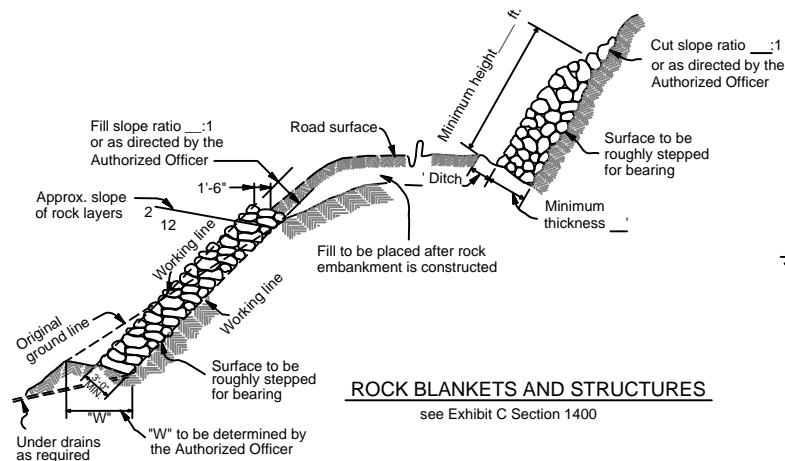
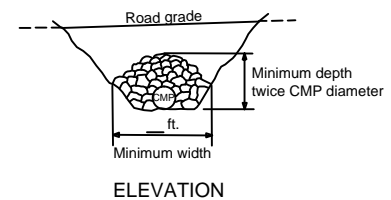


EXHIBIT C5 SHEET 1 OF 1 LONDON PEAK TIMBER SALE TRACT NO. ORM07-TS13-02



NOTES: RIPRAP AT CULVERTS

1. Riprap shall be placed in such a manner that it will not damage the culvert.
2. Trenching will be done as required by the Authorized Officer.
3. Minimum depth of splash pads shall be 1FT.
4. Minimum quantity shall be 1CY per culvert.
5. Riprap shall be placed before October 1st of the year the culvert is installed.



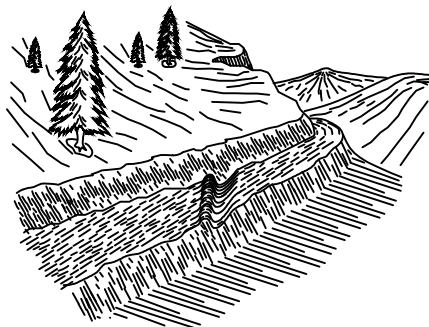
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SAFETY

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|---|-------------|---------------|---------|
| | | | |
| | | | |
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE TYPICAL ROAD DATA | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: JAB | | SCALE: NONE | |
| DATE: OCT 2012 | | SHEET: 1 OF 1 | |
| DRAWING NO.: OR-11-9113.4-4 | | | |

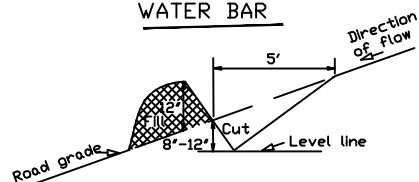
EXHIBIT C6

SHEET 1 OF 1

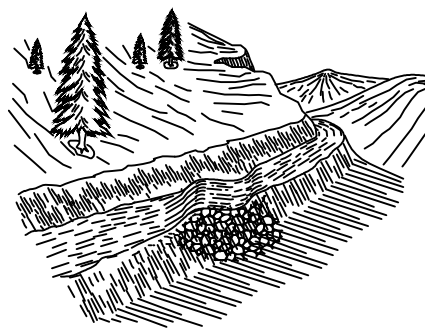
LONDON PEAK TIMBER SALE
TRACT NO. ORM07-TS13-02



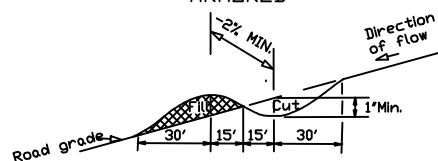
WATER BAR



1. WATER BARS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER BARS SHALL BE SKEWED 30 DEGREES.
4. UPON COMPLETION OF SKIDDING LOGS, FOR THE LOGGING SEASON, EACH SKID ROAD WILL HAVE CROSS DRAINAGE CONSTRUCTED AS SHOWN ABOVE.

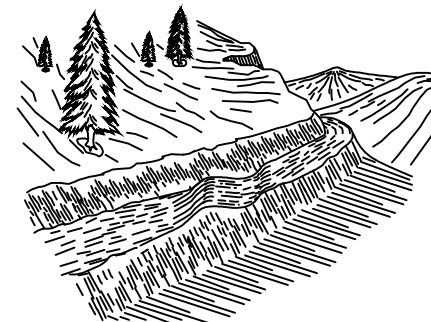


WATER DIP **
ARMORED

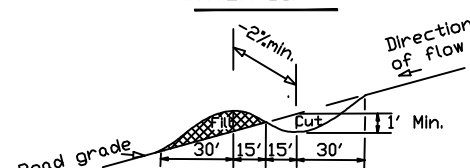


1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY PASSENGER TYPE VEHICLES.
5. PLACE, SPREAD, AND COMPACT 20 C.Y. SURFACING MATERIAL IN DIP AREA TO MATCH ROAD SURFACING FOR FULL WIDTH OF ROAD.
6. ROCK OUTLET OF WATER DIP ON FILL SLOPE. ROCK WILL BE PLACED FROM OUTLET TO NATURAL GROUND (ESTIMATED 5 CU.YDS) OF CLASS 3 RIP RAP ROCK.

** Conserve surfacing prior to construction of waterdip. Replace surfacing after construction. Add additional 20 C.Y. surfacing and compact as shown in Sec 1212.

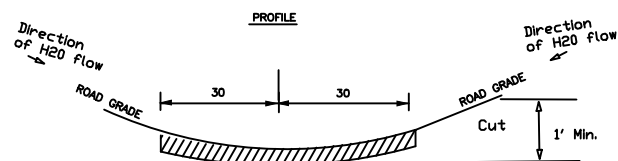


WATER DIP **



1. WATER DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL WATER DIPS SHALL BE SKEWED 30 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY PASSENGER TYPE VEHICLES.
5. PLACE, SPREAD AND COMPACT 20 CU. YDS. SURFACING MATERIAL IN DIP AREA TO MATCH ROAD SURFACING FOR FULL WIDTH OF ROAD.

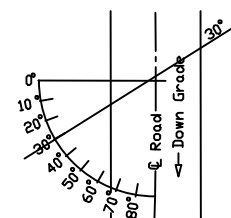
SAG DIP **



1. SAG DIPS SHALL BE CONSTRUCTED AS SHOWN ABOVE.
2. EXACT LOCATION WILL BE FLAGGED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
3. ALL SAG DIPS SHALL BE SKEWED @ 0 DEGREES.
4. THE LENGTH SHALL BE SUFFICIENT TO EXTEND FROM THE CUT BANK TO THE FILL SLOPE AND BE READILY CROSSED BY PASSENGER TYPE VEHICLES.
5. BOTTOM OF SAG DIP SHALL HAVE A 2% MINIMUM OUTSLOPE.
6. PLACE, SPREAD AND COMPACT 20 CU. YDS. SURFACING MATERIAL IN DIP AREA TO MATCH ROAD SURFACING FOR FULL WIDTH OF ROAD.
7. WHERE SPECIFIED, OUTLET OF SAG DIP ON FILL SLOPES SHALL BE ARMORED WITH CLASS 3 RIP RAP ROCK. ROCK WILL BE PLACED FROM OUTLET TO NATURAL GROUND. (ESTIMATED 5 CU.YDS).

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SKREW DIAGRAM

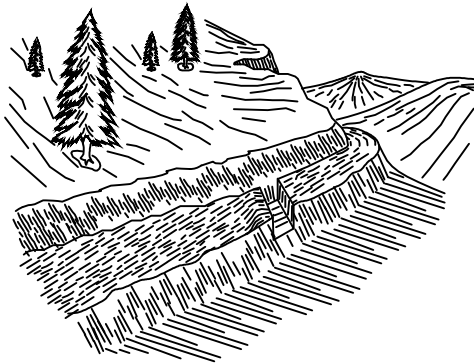


| REV. | NO. | DESCRIPTION | DATE | APPROV. |
|---|----------------|-------------|------|---------|
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | | |
| DRAINAGE & EROSION CONTROL INSTALLATION | | | | |
| DESIGNED _____ | | | | |
| REVIEWED _____ | | | | |
| APPROVED _____ | | | | |
| DRAWN | JAB | SCALE | NONE | |
| DATE | OCT 2012 | SHEET | 1 | OF 1 |
| DRAWING NO. | OR-11-9113.4-9 | | | |

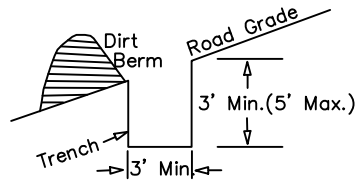
EXHIBIT C7

SHEET 1 OF 1

LONDON PEAK TIMBER SALE
TRACT NO. ORM07-TS13-02



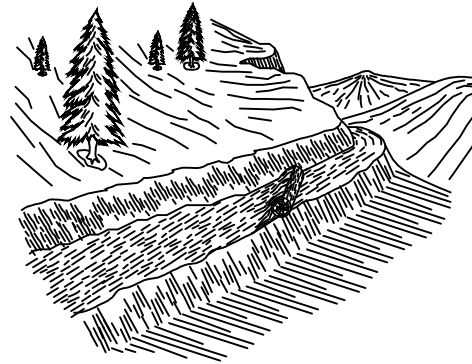
TRENCH BARRICADE



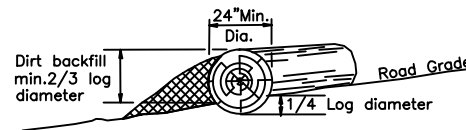
1. BARRICADE LENGTH SHALL EXTEND ACROSS THE ENTIRE ROAD SURFACE TO A POINT SUFFICIENT TO PROHIBIT MOTOR VEHICLE TRAFFIC.
2. THE EXACT LOCATION SHALL BE AS STAKED IN THE FIELD.
3. THE BARRICADE SHALL BE SKEWED AS NEEDED TO DRAIN OR AS DIRECTED BY THE AUTHORIZED OFFICERS REPRESENTATIVE.

TRENCH BARRICADE LOCATIONS:

Temp Route LP27-1
Temp Route LP27-3a
Temp Route LP27-3b
Temp Route LP27-4a



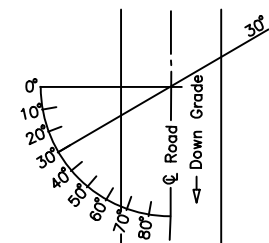
LOG BARRICADE



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

LOG BARRICADE LOCATIONS:

SKEW DIAGRAM



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SAFETY**

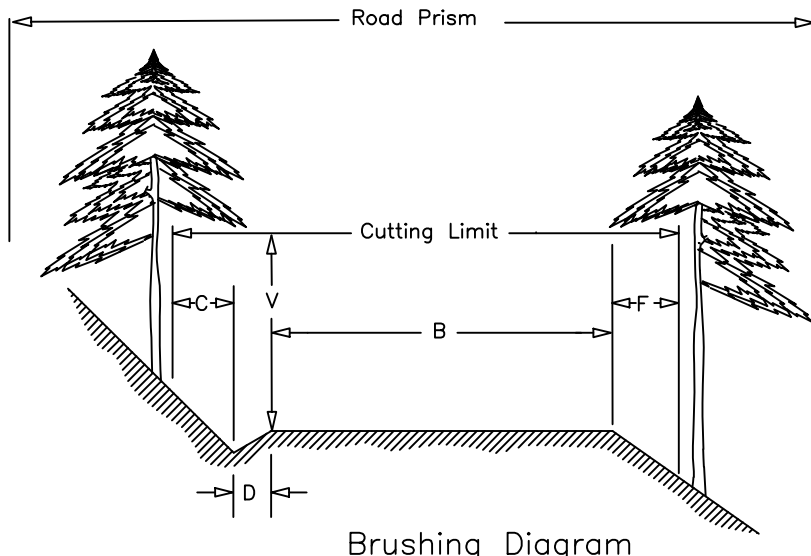
| REV. NO. | DESCRIPTION | DATE | APPROV. |
|---|----------------|-------|---------|
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| ROAD CLOSURE DETAIL | | | |
| DESIGNED | | | |
| REVIEWED | | | |
| APPROVED | | | |
| DRAWN | JAB | SCALE | NONE |
| DATE | OCT 2012 | SHEET | 1 OF 1 |
| DRAWING NO. | OR-11-9113.4-9 | | |

EXHIBIT C8

SHEET 1 OF 1

LONDON PEAK TIMBER SALE

TRACT NO. ORM07-TS13-02



Brushing Diagram

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

B = Road Bed Subgrade (includes turnouts)
Cut all vegetation to max. height of 1".

C = 4 ft – Distance to be brushed on cut slope
beyond centerline of ditch. Cut all vegetation to max height of 6".

D = Centerline of ditch to inside shoulder. Cut all vegetation to max. height of 1".

F = Distance to be brushed on fill slope beyond outside shoulder
Cut all vegetation to max. height of 6".

V = 14 ft – Height of vertical cutting limit

Typical Basic Traveled Way widths

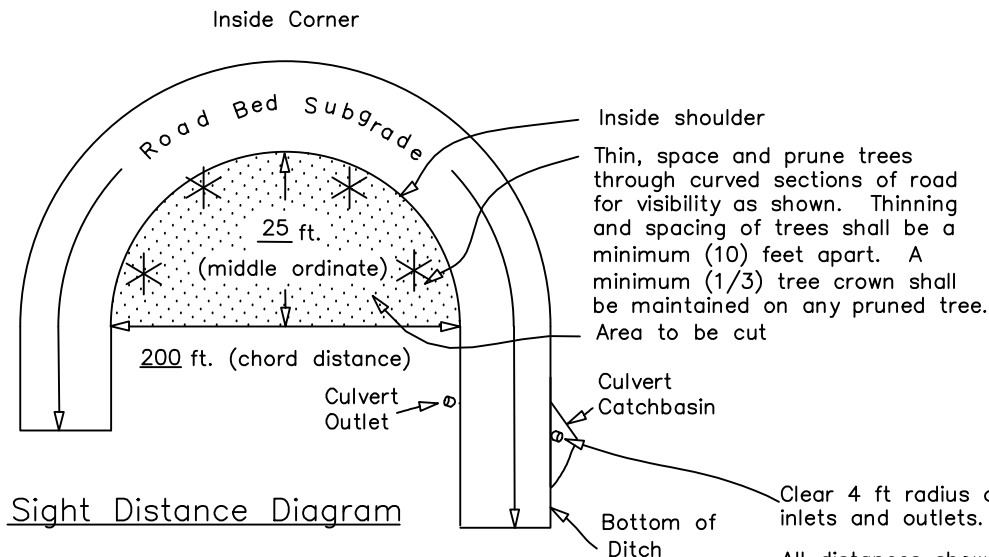
One lane low traffic volume 12 to 16 ft

One lane medium traffic volume . . 16 to 20 ft

Two lane high volume traffic 20 to 40 ft

Turnouts 10 ft

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Sight Distance Diagram

All distances shown are horizontal except for V

| | | | |
|---|-------------|---------------|---------|
| | | | |
| | | | |
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE ROADSIDE BRUSHING DETAIL | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: JAB | | SCALE: NONE | |
| DATE: OCT 2012 | | SHEET: 1 OF 1 | |
| DRAWING NO.: OR-11-9113.4-4 | | | |

London Peak Timber Sale Worklist

ROAD 33-6-26.0 Seg A1-D Wolf Creek Divide

| MP | TASKS |
|------|---|
| 0.00 | Begin road maintenance which includes blading, watering, rolling, and rocking road with a 4" lift of 1-1/2" minus rock. Rock shall be commercial source. One copy of all load tickets shall be given to BLM representative to verify quantities. Road maintenance also includes cleaning ditch lines where needed, reshaping existing water dips, cleaning culvert catch basins, roadside brushing, and clearing culvert inlets, outlets, and entire culvert barrel of debris. |
| 0.97 | Jct w/ 33-6-27.0 and 33-6-27.6 left. End road rocking. Continue blading, watering, rolling, cleaning ditch lines where needed, reshaping existing water dips, cleaning culvert catch basins, roadside brushing and clearing culvert inlets, outlets, and entire culvert barrel of debris. |
| 1.22 | Jct w/ 33-6-27.2 right. |
| 1.74 | Spot rock 30 cubic yards of 1-1/2" minus rock to correct drainage pattern. |
| 2.67 | Jct w/ 33-6-27.0B left (barricaded). |
| 2.70 | State Quarry. London Peak Trail. End road maintenance. |

ROAD 33-6-27.0 Seg A1-A3 London Peak

| MP | TASKS |
|------|--|
| 0.00 | Begin road maintenance which includes blading, watering, and rolling. Road maintenance also includes cleaning ditch lines where needed, cleaning culvert catch basins, roadside brushing, and clearing culvert inlets, outlets, and entire culvert barrel of debris. |
| 0.47 | Jct w/ 33-6-27.5 left. Remove 10 CY slide from ditch and haul material to waste disposal site located at M.P. 0.60 on the 33-6-27.0 road. |
| 0.60 | Jct w/ 33-6-27.3 right. End road maintenance. |

ROAD 33-6-27.0 Seg B London Peak

| MP | TASKS |
|------|--|
| 1.10 | Jct w/ 33-6-26.0D. Begin road maintenance which includes blading, watering, and rolling. Road maintenance also includes roadside brushing. |
| 1.09 | Remove jersey barrier and replace after use. |
| 1.08 | End road maintenance. Begin new construction of Temp Route LP27-1 left. |

ROAD 33-6-27.2 Seg A

White Fang Road

| MP | TASKS |
|-----------|---|
| 0.00 | Begin road renovation which includes blading, watering, and rolling to an outslope configuration and reshaping/constructing water dips. Begin roadside brushing and chipping. |
| 0.45 | End road maintenance. |

ROAD 33-6-27.3

Jack's Spur

| MP | TASKS |
|-----------|---|
| 0.00 | Begin road renovation which includes blading, watering, and rolling to an outslope configuration and reshaping/constructing water dips. Begin roadside brushing and chipping. |
| 0.41 | End road maintenance. |

***Temp Route LP27-1**

| MP | TASKS |
|-----------|---|
| 0.00 | Begin construction of outsloped temp route. Rip, waterbar every 100', barricade, seed, and mulch after use. |
| 0.18 | Property line between Oregon Department of Forestry and the Bureau of Land Management. |
| 0.38 | End temp route construction. |

***Temp Route LP27-3a**

| MP | TASKS |
|-----------|---|
| 0.00 | Begin construction of outsloped temp route. Rip, waterbar every 100', barricade, seed, and mulch after use. |
| 0.03 | End temp route construction. |

***Temp Route LP27-3b**

| MP | TASKS |
|-----------|---|
| 0.00 | Begin construction of outsloped temp route. Rip, waterbar every 100', barricade, seed, and mulch after use. |
| 0.11 | End temp route construction. |

***Temp Route LP27-4a**

| MP | TASKS |
|-----------|---|
| 0.00 | Begin construction of outsloped temp route. Rip, waterbar every 100', barricade, seed, and mulch after use. |
| 0.10 | End temp route construction. |

***Temp Route LP27-4b**

| MP | TASKS |
|-----------|--|
| 0.00 | Begin reconstruction of outsloped temp route. Rip, waterbar every 100', seed, and mulch after use. |
| 0.08 | End temp route reconstruction. |

***Temp Route LP27-4c**

| MP | TASKS |
|-----------|--|
| 0.00 | Begin construction of outsloped temp route. Rip, waterbar every 100', seed, and mulch after use. |
| 0.04 | End temp route construction. |

***Construction and reconstruction appraisals included in logging costs.**

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD SPECIFICATIONS

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| | |
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GENERAL – 100

101 - Prewrite Conference(s):

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

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

102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

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

passing purposes.

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

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

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

102a - Tests Used in These Specifications:

| | |
|---------------------|--|
| <u>AASHTO T 11</u> | Quantity of rock finer than No. 200 sieve. |
| <u>AASHTO T 27</u> | Sieve analysis of fine and coarse aggregate using sieves with square openings; gradation. |
| <u>AASHTO T 89</u> | Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state. |
| <u>AASHTO T 90</u> | Plastic limits and plasticity index of soil. <ul style="list-style-type: none">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. |
| <u>AASHTO T 96</u> | Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine. |
| <u>AASHTO T 99</u> | Relationship between soil moisture and maximum density of soil. <ul style="list-style-type: none">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. |
| <u>AASHTO T 176</u> | Shows relative portions of fine dust or claylike materials in soil or graded aggregate. |
| <u>AASHTO T 180</u> | (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-in drop. |
| <u>AASHTO T 191</u> | <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.

| | |
|--|--|
| <u>AASHTO T 205</u> | <u>Rubber balloon.</u> Density of soil in place. Use for compacted or firmly bonded soil. |
| <u>AASHTO T 210</u> | Durability of aggregates based on resistance to produce fines. |
| <u>AASHTO T 224</u> | Correction for coarse particles in the soil. |
| <u>AASHTO T 310</u> | Determination of density of soil and soil-aggregates in place by nuclear methods. |
| <u>AASHTO T 248</u> | Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling. |
| <u>AASHTO M 147</u> | Standard Specification for Materials for Aggregate and Soil Aggregate Subbase, Base, and Surface Courses. |
| <u>ASTM D 4564</u> | Determination of relative density of cohesionless soils. |
| <u>DMSO (dimethyl sulfide)</u> - Determines volume of expanding clays in aggregates. Usually associated with marine basalts. | |

- 103 - Compaction equipment shall meet the following requirements:
- 103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.
- The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.
- 103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 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 and as staked on the ground.
- 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 shown on the plans and as staked on the ground.
- 203a - Brush under (2) feet in height need not be cut within the limits established for clearing.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
- 204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, and 204e between the top of the cut slope and the toe of the fill slope.
- 204a - Stumps including those overhanging cut banks, shall be removed within the required excavation limits.
- 204b - Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than (4) feet.
- 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.
- 206 - Clearing and grubbing debris shall be disposed of by burning in accordance with Subsection 207 or scattering in accordance with Subsection 210.
- 207 - The Purchaser shall prepare a burning plan for the disposal of clearing and grubbing debris in accordance with local and state laws, rules, and regulations and complying with the requirements for burning operations as set forth under

Subsection 207a of these specifications. The plan shall be approved in writing by the Authorized Officer prior to burning.

- 207a - Burning shall utilize methods which produce intense heat with no visible smoke emissions except that minimal emissions of smoke associated with starting and stopping the operations will be tolerated. Prior to beginning burning the Purchaser shall obtain a burning permit from the regulating authority enforcing the air pollution control standards for the area and shall furnish a copy of the permit to the Authorized Officer. At the conclusion of each burning session, the fire shall be completely extinguished so that no smoldering debris remains. Debris to be burned shall be dirt free. Final placement of debris into the actual burning area shall be done with a crane, loader, or other suitable lifting equipment. The use of dozers will not be permitted, unless they are equipped with a brush blade. Stumps larger than 3 feet in diameter shall be split prior to burning.
- 208 - Trees and limbs (4) inches in diameter and smaller, and rotten logs and similarly decomposed, degradable vegetation shall be broken down into pieces not larger than (4) inches in diameter and (6) feet in length, and shall be distributed in thin layers throughout those embankment portions which are (2) feet or more below subgrade elevation. The debris shall be placed in a manner to prevent bunching or nesting and be clear of culvert pipe and structures.
- 208b - Trees, firm logs, and other firm large pieces, (4) inches in diameter and (8) feet in length and larger and not removed from the contract area by the Purchaser, shall be piled at locations determined by the Authorized Officer.
- 210a - Disposal of clearing and grubbing debris on non-government property by scattering or burning or piling this material outside of clearing limits will be permitted provided the Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- 210b - Clearing and grubbing debris, stumps, and cull logs resulting from road construction on non-Government property shall be loaded and hauled to designated areas. Disposal shall be by burning in accordance with Subsection 207 or scattering in accordance with Subsection 210.
- 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.

RENOVATION OF EXISTING ROADS - 500

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes.
- 501a - This work shall include the removal and disposal of slides in accordance with these specifications and as marked on the ground with stakes.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes at the following locations:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> | <u>Type of Work</u> |
|-----------------|------------------|----------------|--------------------|--------------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 | Blade, Water, Roll, Rock |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 | Blade, Water, Roll, Rock |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 | Blade, Water, Roll, Rock |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 | Blade, Water, Roll, Rock |
| 33-6-26.0 C | 0.97 | 2.50 | 1.53 | Blade, Water, Roll |
| 33-6-26.0 D | 2.50 | 2.70 | 0.20 | Blade, Water, Roll |
| 33-6-27.0 A1 | 0.00 | 0.26 | 0.26 | Blade, Water, Roll |
| 33-6-27.0 A2 | 0.26 | 0.33 | 0.33 | Blade, Water, Roll |
| 33-6-27.0 A3 | 0.33 | 0.60 | 0.27 | Blade, Water, Roll |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | Blade, Water, Roll |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | Blade, Water, Roll |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | Blade, Water, Roll |

- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans. Material from ditchlines shall be bunched and hauled to designated waste disposal sites located at the following locations:

| <u>Road No.</u> | <u>M.P. Location</u> |
|-----------------|----------------------|
| 33-6-26.0 C | 1.04 |
| 33-6-26.0 C | 1.46 |
| 33-6-26.0 C | 2.04 |
| 33-6-27.0 A3 | 0.60 |

503a - Debris from the slide at the following location:

| <u>Road No.</u> | <u>M.P. Location</u> |
|-----------------|----------------------|
| 33-6-27.0 A3 | 0.47 |

shall be hauled to a designated waste disposal site at the following location:

| <u>Road No.</u> | <u>M.P. Location</u> |
|-----------------|----------------------|
| 33-6-27.0 A3 | 0.60 |

as marked on the ground with stakes.

504 - The 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 and in accordance with the following table:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> | <u>Subsection</u> |
|-----------------|------------------|----------------|--------------------|-------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 | 504a |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 | 504a |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 | 504a |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 | 504a |
| 33-6-26.0 C | 0.97 | 2.50 | 1.53 | 504a |
| 33-6-26.0 D | 2.50 | 2.70 | 0.20 | 504a |
| 33-6-27.0 A1 | 0.00 | 0.26 | 0.26 | 504a |
| 33-6-27.0 A2 | 0.26 | 0.33 | 0.33 | 504a |
| 33-6-27.0 A3 | 0.33 | 0.60 | 0.27 | 504a |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | 504a |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | 504a |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | 504a |

504a - 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.

506 - The inlet end of existing drainage structures as shown on the plans and the worklist shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.

- 508 - Vegetation encroaching on the roadbed and the drainage ditches of existing roads at the following locations:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> | <u>Type of Work</u> |
|-----------------|------------------|----------------|--------------------|---------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 | Cut & Chip |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 | Cut & Chip |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 | Cut & Chip |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 | Cut & Chip |
| 33-6-26.0 C | 0.97 | 2.50 | 1.53 | Cut & Chip |
| 33-6-26.0 D | 2.50 | 2.70 | 0.20 | Cut & Chip |
| 33-6-27.0 A1 | 0.00 | 0.26 | 0.26 | Cut & Chip |
| 33-6-27.0 A2 | 0.26 | 0.33 | 0.33 | Cut & Chip |
| 33-6-27.0 A3 | 0.33 | 0.60 | 0.27 | Cut & Chip |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | Cut & Chip |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | Cut & Chip |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | Cut & Chip |

shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.

- 509 - The finished grading shall be approved by the Authorized Officer (1) day 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 embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- 602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods where the road crosses private property.
- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.

- 605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water source(s) selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE SURFACE COURSE - 1200
CRUSHED ROCK MATERIAL

- 1201 - This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road.
- 1202a - Crushed rock materials used in this work may be obtained from commercial source selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications in this section.
- 1203 - Crushed rock material produced from gravel shall have 2 manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve. (If necessary to meet the above requirement, or to eliminate an excess of filler, the gravel shall be screened before crushing).
- 1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE
CRUSHED ROCK MATERIAL

Contractor-furnished aggregate shall meet the following specifications:

1. AASHTO M 147
2. Gradation shall meet AASHTO T 27.

GRADATION VALUES:

| <u>SIEVE SIZE</u> | <u>PERCENT PASSING</u> |
|-----------------------|----------------------------|
| 1-½ inch | 100 |

| | |
|----------|-------|
| 3/4 inch | 50-90 |
| No. 4 | 25-50 |
| No. 40 | 5-25 |
| No. 200 | 2-15 |

- 1204a - The Purchaser shall be required to take one (1) sample of each 1,000 cubic yards of crushed rock material produced, using approved AASHTO sampling procedures. The Purchaser shall submit samples to a certified lab or shall perform testing for gradation requirements using ASHTO M 147 and AASHTO T 27 testing procedures (and also perform testing for sand equivalency requirements using AASHTO T 176 testing procedures). Prior to testing, each sample shall be split, making one-half of the sample with proper identification available for testing by the Authorized Officer. Each sample and the results of Purchaser testing shall be made available to the Authorized Officer within twenty-four (24) hours of sampling. The Purchaser shall provide test results for the first five hundred (500) cubic yards produced prior to commencing production crushing and hauling.
- 1205 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 - Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210
- 1207 - That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- 1208 - If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 1209 - Shaping and compacting of roadbed shall be completed and approved in writing, prior to placing crushed rock material, in accordance to the requirements of Subsection 500 for placing on the roadbed.
- 1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and

conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and staked on the ground. Compacted layers shall not exceed (4) inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved in writing by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.

- 1210a - Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification.
- 1212 - Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103f. Minimum compaction shall be 1 hour of continuous compacting for each 100 cubic yards of crushed rock material placed per layer.

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 cross sections 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 4356 square feet (0.10 acres) after October 1 without prior approval by the Authorized Officer.

- 1707 - Completed and partially completed segments of roads at the following locations:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> |
|--------------------|------------------|----------------|--------------------|
| Temp Route LP27-1 | 0.00 | 0.38 | 0.38 |
| Temp Route LP27-3a | 0.00 | 0.03 | 0.03 |
| Temp Route LP27-3b | 0.00 | 0.11 | 0.11 |
| Temp Route LP27-4a | 0.00 | 0.10 | 0.10 |

| | | | |
|--------------------|------|------|------|
| Temp Route LP27-4b | 0.10 | 0.08 | 0.18 |
| Temp Route LP27-4c | 0.18 | 0.22 | 0.04 |

carried over the winter and early spring periods shall be stabilized by seeding and mulching in accordance with Section 1800.

- 1708 - Newly constructed roads to be carried over the winter period, shall be blocked to vehicular traffic.
- 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.

SOIL STABILIZATION – 1800

- 1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. 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, disturbed areas, borrow sites, 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 periods:

| | |
|--------------------|-----------------------------------|
| From: September 15 | To: October 31 (of the same year) |
|--------------------|-----------------------------------|

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Section 1707 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 Sec. 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 Production 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.
- 1809 - 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.
- 1810 - 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 approximately 1.75 acres designated for treatment as shown on the plans and as specified under Subsections 802a and 1806a, a mixture of grass seed and mulch material at the following rate of application:

a. Two Stage Dry Application:

| | |
|------------|-----------------|
| Grass Seed | 10 lbs./acre |
| Mulch | 2,000 lbs./acre |

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

- 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, cultipacker seeders, or other approved mechanical seeding equipment may be used when seed are 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.
- 1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

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.
- 2103 - Vegetation cut manually less than 6 inches in diameter at D.B.H. 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.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulder(s) and the ditch centerline 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 will not be permitted.** Cuts shall be parallel to the ground line or running surface.
- 2104 - Trees in excess of 6 inches in diameter at D.B.H. shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 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.
- 2106 - 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.
- 2108 - Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2110 - Vegetation 6 inches and smaller in diameter shall be chipped. Chips shall be scattered downslope from the roadway.
- 2113 - Roadside brushing shall be accomplished as shown on the plans and as listed below:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> | <u>Type of Work</u> |
|-----------------|------------------|----------------|--------------------|---------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 | Cut & Chip |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 | Cut & Chip |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 | Cut & Chip |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 | Cut & Chip |
| 33-6-26.0 C | 0.97 | 2.50 | 1.53 | Cut & Chip |
| 33-6-26.0 D | 2.50 | 2.70 | 0.20 | Cut & Chip |
| 33-6-27.0 A1 | 0.00 | 0.26 | 0.26 | Cut & Chip |
| 33-6-27.0 A2 | 0.26 | 0.33 | 0.33 | Cut & Chip |
| 33-6-27.0 A3 | 0.33 | 0.60 | 0.27 | Cut & Chip |
| 33-6-27.0 B | 0.00 | 0.02 | 0.02 | Cut & Chip |
| 33-6-27.2 A | 0.00 | 0.45 | 0.45 | Cut & Chip |
| 33-6-27.3 | 0.00 | 0.41 | 0.41 | Cut & Chip |

- 2115 - Sections of roadway to have vegetation removed will be marked at start and stop points with red-topped painted stakes.
- 2117 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

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 contractor 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, at least as good as the condition just prior to such damage.
3. All disturbed soil shall be seeded and mulched. Purchaser shall apply native grass seed and Certified Weed Free straw mulch for soil stabilization operations. BLM will furnish native grass seed, **if available**. Certified weed free straw mulch will be the responsibility of the contractor.
4. All stream channel culvert inlets shall be cleaned between **June 15th and September 15th** 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 stream side of a culvert to the downstream side of the culvert.
6. Roadside brushing cutting limits beneath or adjacent to bridges shall extend 8 feet 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 mechanically chipped. Use of Excavators for brush removal will be at the discretion of the Authorized Officer. **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 C-8) shall have the branches pruned rather than being felled.
9. No flailer type brushers shall be allowed. All roadside brushing shall be completed by chain saws, pole saws, etc. to reduce damage to residual trees and to reduce chip size and cleanliness.

10. 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 down to a minimum of 3 inches below existing grade.
11. Where ditchline maintenance occurs within 200 feet of a stream, erosion control measures may be implemented where needed, as directed by the Authorized Officer. Ditchline maintenance may only occur in the dry season (generally May 15 to October 15), with the exception of emergency road work, unless otherwise authorized by the Authorized Officer.
12. Waste material from road maintenance activities shall be placed in a stable waste disposal site a minimum of 200 feet from any stream.
13. All temp routes and native surfaced roads (that were previously closed before timber sale activities began) shall be winterized if access is needed over two dry seasons by October 31st. Winterization includes: water barring, seeding, mulching, and barricading. All temp routes shall be ripped, water barred, barricaded, seeded, and mulched after use.
14. **One copy of all load tickets for road rocking shall be given to BLM representative to verify quantities.**
15. All temp routes shall be built within clearing limits that have been flagged with orange ribbon and tagged with Right-of-Way boundary tags. Through Oregon Department of Forestry land on Temp Route LP27-1, boundary trees are painted orange as well as tagged and flagged.
16. **Roadway Clearing** (see Exhibit C-12: Roadside Daylighting Detail and Roadway Clearing Worklist):

A. Unit Layout:

- i. Roadway Clearing Units are delineated with orange flagging, and white "Boundary Timber Reserve" posters to mark the Reserve Areas. The merchantable trees within the units have been marked for cutting heretofore by the Government with blue paint above and below stump height.

B. Cutting and Yarding Requirements:

- i. Mechanically cut all vegetation within fifteen (15) feet slope distance of the edge of the road as specified in Section 42 (B) of the Timber Sale Special Provisions and as specified in the Roadway Clearing Worklist, Exhibit C-12. All mechanized equipment used for cutting and yarding shall only operate on existing road surfaces. The equipment harvesting trees larger than eight (8) inches at D.B.H.O.B. shall have a single-grip head that can fully suspend logs clear of the ground while cutting and shall fell trees within the road prism.

Full suspension yarding of merchantable trees shall be required, unless approved by the Authorized Officer. The Purchaser shall not skid logs on any road, from ditchline to outside shoulder of road, unless approved by the Authorized Officer. Log decks shall only be allowed on the fill slope. Log decks shall not be permitted in the ditchline nor the cut slope, unless approved by the Authorized Officer.

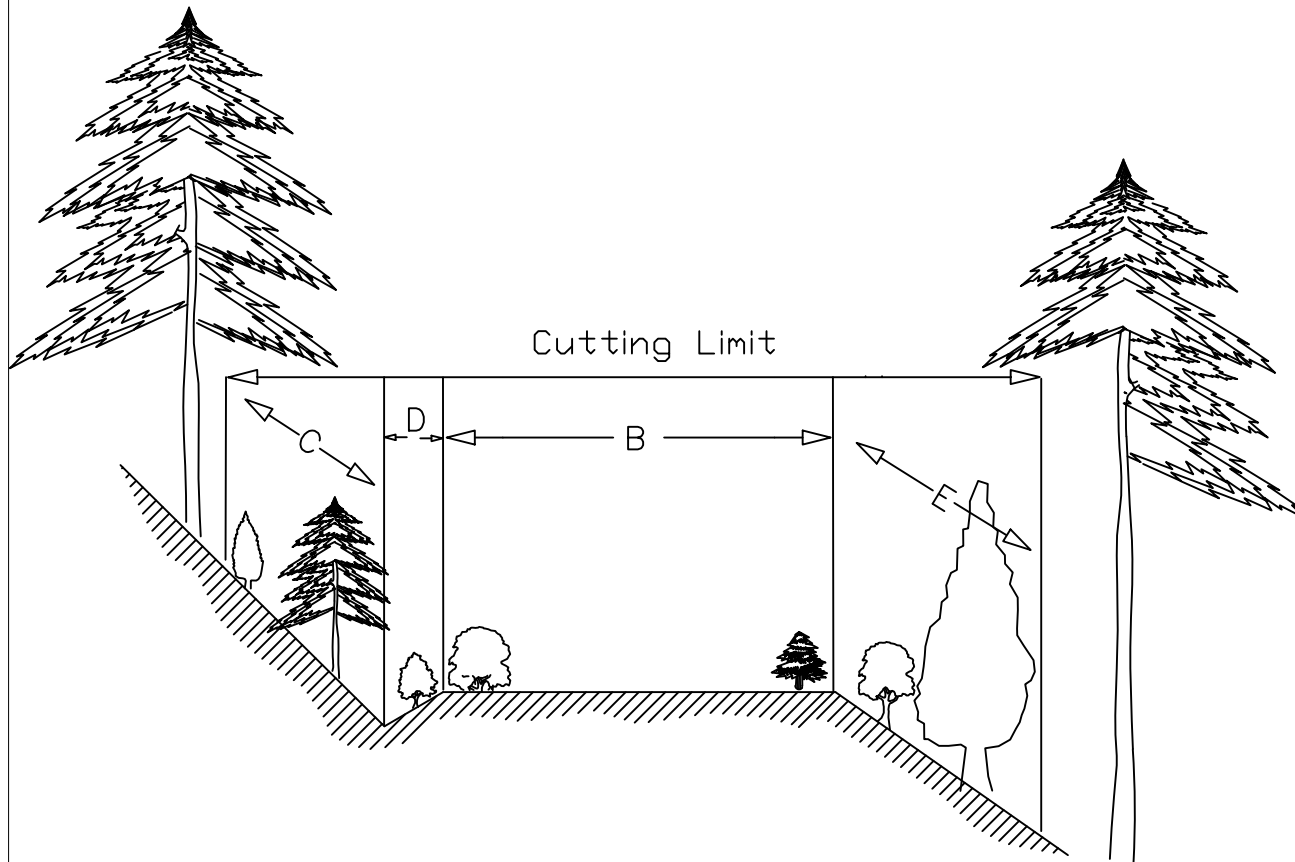
- ii. All vegetation shall be cut to a maximum height of twelve (12) inches above the ground surface or above obstructions such as rocks or stumps in the areas designated as C (cut bank) and E (fill slope) of Exhibit C-12.
- iii. All vegetation shall be cut to a maximum height of one (1) inch above the ground and running surface in the area designated as D and B of Exhibit C-12. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

C. Slash Handling Requirements:

- i. Slash resulting from Roadway Clearing Units shall be disposed of concurrently with felling operations. **Prior to any other slash handling, the Purchaser shall remove all pulp logs from the debris.** After removal of pulp logs, the remaining slash shall be hauled out of the Contract Area as shown on Exhibit A as dirt-free biomass, or mechanically chipped. If the Purchaser elects to chip the remaining slash, then it shall be mechanically chipped or reduced in a manner that ninety five (95) percent of the material produced is no larger than two (2) inches by two (2) inches in size. The chips shall be scattered in a discontinuous pattern across the forest floor into area E (over the fill slopes into the forest stand).

D. Stump Removal:

- i. All stumps designated by the Authorized Officer and all stumps that would interfere with normal Motor Patrol Blading within areas D and B (including turnouts) shall be removed. Stumps shall be removed in such a way as not to cause damage to drainage ditch or road. Stumps that are ground down shall be ground down to a minimum of three (3) inches below ground or road surfacing level.



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

B = Road bed subgrade (includes turnouts).

C = Distance of vegetation removal beyond centerline of ditch.

C = variable slope distance (See timber specifications for exact distances by road number and mile posts).

D = Centerline of ditch to inside shoulder

E = Distance of vegetation removal down the fill slope.

E = variable slope distance (See timber specifications for exact distances by road number and mile posts).

| | | | |
|--|-------------|--------------|---------|
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR | | | |
| BUREAU OF LAND MANAGEMENT | | | |
| MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| ROADWAY CLEARING DETAIL | | | |
| Designed _____ | | | |
| REVIEWED _____ | | | |
| APPROVED _____ | | | |
| DRAWN: JAB | | SCALE: NONE | |
| DATE JULY 2011 | | SHEET 1 OF 1 | |
| DRAWING NO. | | | |

London Peak Roadway Clearing Worklist

Unit 33-6-26.0.

BLM Road #33-6-26.0

| <u>M.P.</u> | <u>Task</u> |
|--------------------|--|
| 0.9 | Start Roadway Clearing Unit. Start clearing all vegetation within fifteen (15) feet slope distance from the edge of the road (following the blue-cut tree-mark), on the fill slope where unit is delineated with orange flagging and white posters. |
| 1.5 | Stop clearing for riparian reserve buffer. |
| 1.7 | Continue Roadway Clearing Unit. Start clearing all vegetation within fifteen (15) feet slope distance from the edge of the road (following the blue-cut tree-mark), on the fill slope where unit is delineated with orange flagging and white posters. |
| 2.5 | |

Unit 33-6-26.0

BLM Road #33-6-27.2

| <u>M.P.</u> | <u>Task</u> |
|--------------------|---|
| 0.0 | Start Roadway Clearing Unit. Start clearing all vegetation within fifteen (15) feet slope distance from the edge of the road (following the blue-cut tree-mark), on the fill slope where unit is delineated with orange flagging and white posters. |
| 0.4 | End of Unit. Stop clearing at orange flagging and white posters on the property line. |

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE SPECIFICATIONS

INDEX

COVER SHEET

SPECIFICATIONS

3000 - GENERAL MAINTENANCE

3100 - OPERATIONAL MAINTENANCE

3200 - SEASONAL MAINTENANCE

3300 - FINAL MAINTENANCE

3400 - OTHER MAINTENANCE

3500 - DECOMMISSIONING

EXHIBIT D-2 MAP

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in section 41, as shown on the Exhibit D maps of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 3001a The Purchaser shall be required to provide maintenance on roads in accordance with Subsections 3403, 3403a, 3404, 3405b, and 3406.
- 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract.
- 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105.
- 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one 1 mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily.

OPERATIONAL MAINTENANCE - 3100

- 3101 The Purchaser shall blade and shape the road surface and shoulders with a motor grader. Banks shall not be undercut. Back blading with tractors or similar equipment will be allowed only around landings and other areas when approved by the Authorized Officer.
- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor 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.

- 3104b The Purchaser shall be responsible for removal of all slides or slough, 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 removal of any slough or slide 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, method of disposal, and the disposal site. Work may commence immediately after agreement.
- Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based on 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.
- 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.
- 3106 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.
- 3107 The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way when directed by the Authorized Officer.
- The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road.
- 3108 The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. 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(s) 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.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 15 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.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

- 3301 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within thirty 30 calendar days following the completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's

remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions Sections 3000, 3100, 3200 and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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

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

OTHER MAINTENANCE - 3400

3401 The Purchaser shall repair any damage to road surfaces that was specified under Subsection 3108 and 3108a. This repair includes restoring the roadway to the designed standard and replacement of surfacing with approved surface material. This repair is not limited to use of equipment specified in Subsection 3104.

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

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

3403 The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one-half gallon per yd² of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds³ of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd² when a specified lesser rate is approved by the Authorized Officer.

The following roads shall be watered:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> |
|-----------------|------------------|----------------|--------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 |

| | | | |
|--------------|------|------|------|
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 |

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

During drought periods when the transportation of water from the source to the roads noted above exceeds (15) miles, a reduction shall be made in the total purchase price to reflect the additional haul or the substitution of other acceptable dust palliatives in lieu of watering based on equipment rental rates from the current BLM Road Cost Guide.

- 3403a During dry hauling conditions when watering is not required, the Purchaser shall reduce hauling speeds or restrict the number of loads hauled to reduce dust as directed by the Authorized Officer on the following roads:

| <u>Road No.</u> | <u>From M.P.</u> | <u>to M.P.</u> | <u>Total Miles</u> |
|-----------------|------------------|----------------|--------------------|
| 33-6-26.0 A1 | 0.00 | 0.11 | 0.11 |
| 33-6-26.0 A2 | 0.11 | 0.30 | 0.19 |
| 33-6-26.0 A3 | 0.30 | 0.50 | 0.20 |
| 33-6-26.0 B | 0.50 | 0.97 | 0.47 |

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

- 3404 The Purchaser may at his option and expense substitute lignin sulfonate or magnesium chloride, for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include 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.

- 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. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within 30 days of treatment.

- 3406 Prior to the application of lignin sulfonate or magnesium chloride dust palliatives, 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.
- 3407 The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliatives material requirements specified under Subsection 3412b or 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 degrees F, percent solids by mass, and PH.
- 3408 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 palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- 3412 The Purchaser shall apply to the prepared roadbed specified under Subsection 3405b, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection 3412b or 3412c. The rate of application shall be (0.5) gallons per yd² surface.
- Applied materials not penetrating the road surface shall be blade mixed with additional water into the top 1 to 1½ inches of the surfacing at the 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 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 |
| sulfate | 4.3 percent maximum |
| nitrate | 5.0 percent maximum. |

Concentration specifications for Magnesium chloride

| | |
|------------------------------------|------------------|
| (1) Magnesium chloride by mass | 28% minimum |
| (2) Water by mass | 72% maximum |
| (3) Specific gravity, AASHTO T 227 | 1.290 to 1.330) |


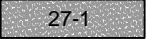






Apply when the ambient air temperature is 45° F or above.

3413 Sampling of lignin sulfonate or magnesium chloride material may be required to validate certificates furnished by the Purchaser. When sampling is directed by the Government, the actual samples will be taken by the Purchaser or his representative in the presence of the Authorized Officer.

EXHIBIT D2

SHEET 1 OF 1

LONDON PEAK
TIMBER SALE
TRACT NO. ORM07-TS-13-02

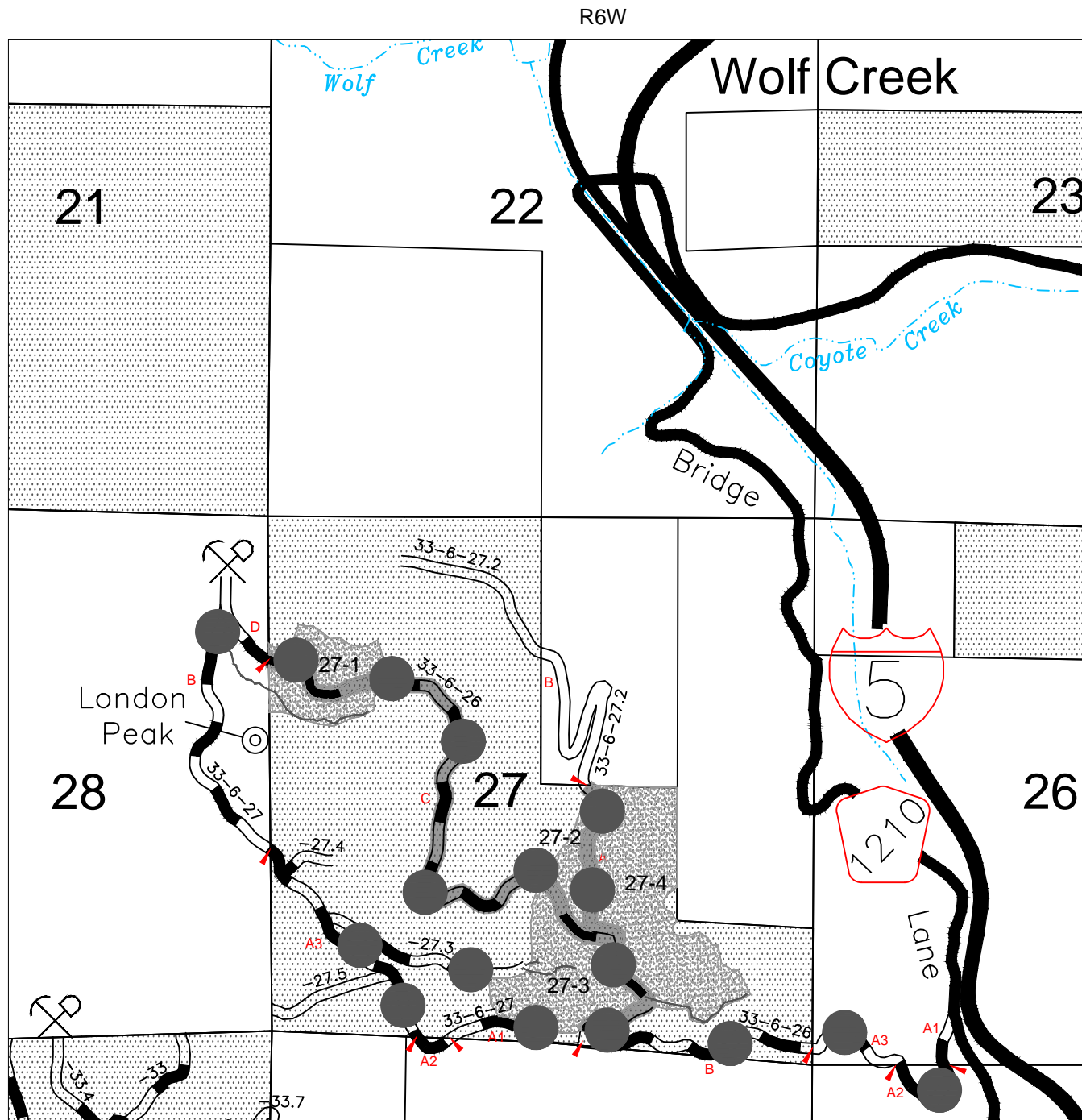
- BLM OWNERSHIP 
- T.S. UNITS  27-1
- T.S. ROADSIDE UNITS 
- BST ROAD 
- ROCKED ROAD 
- NATURAL SURFACE ROAD 
- ROAD TO BE MAINTAINED 
- TEMP ROUTE 

T33S



ALWAYS
THINK
SAFETY

| | | | |
|---|-------------|--------------------|---------|
| | | | |
| | | | |
| REV. NO. | DESCRIPTION | DATE | APPROV. |
| UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON | | | |
| LONDON PEAK TIMBER SALE ROAD MAINTENANCE MAP | | | |
| DESIGNED: _____ | | | |
| REVIEWED: _____ | | | |
| APPROVED: _____ | | | |
| DRAFTED BY: ELF | | SCALE: 1" = 1,500' | |
| DATE: OCT 2012 | | SHEET: 1 OF 1 | |
| DRAWING NO.: OR-11-9113.4-1 | | | |



SELECTION CRITERIA-DESIGNATION BY DESCRIPTION EXHIBIT E

The selection Criteria shown below shall be used by the purchaser in determining which trees are to be retained and which trees are to be cut and removed.

The selection of retention and cut trees shall comply with London Peak Timber Sale Special Provisions Sec. 40. The Purchaser shall leave all boundary trees, trees marked with orange paint and/or flagging, hardwood trees greater than 12 inches, non-hazardous snags, and pre-existing dead and down material in commercial thin harvest units.

Before cutting and removing any trees necessary to facilitate logging in all Harvest Units 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 removal, the conditions found in London Peak Timber Sale Special Provisions Sec. 42(B)(14) must be met. Trees that are removed to facilitate logging do not count towards the leave tree requirements described below.

UNITS REQUIRE ½ AC. SAMPLE MARK PRIOR TO CUTTING

Units: 27-1 (17 ac), 27-4 (41 ac), Area "A" on Exhibit E map

- Commercial Thin, maintain 40% canopy cover. Before falling any trees in these units, the Purchaser shall conduct a sample mark as outlined in Exhibit E. Sample area size shall be approximately one-half (1/2) acre. Identification of leave trees may be done by flagging or paint as approved by the Authorized Officer. Additional marking may be required based on the results of the sample mark. Upon acceptance of the sample mark by the Authorized Officer, the Purchaser may proceed with operations.
- Remove all Douglas-fir that meet merchantable specifications that are within eighteen feet (18') slope distance of another live Douglas-fir with a larger stump diameter. Beyond the eighteen foot (18') slope distance leave the next closest Douglas-fir with the largest stump diameter and repeat the spacing mark.
- Retain all pine and do not include in spacing mark.

- For trees with two stems, the diameter at stump height (four inches (4")) on the uphill side) shall determine whether the tree is a take or leave tree and to be used in the spacing mark.
- Unit boundary trees marked with orange paint shall not be removed. Retain all unit boundary trees. Unit boundary trees may be included in spacing **IF** they would be selected as a leave tree based on stump diameter.
- Along boundaries designated by white timber sale boundary tags the purchaser may use conifers outside of the unit to be included in the spacing **IF** they would be selected as a leave tree based on stump diameter. This does not apply to conifers that exist beyond unit boundaries designated by orange and white property tags. Orange and white property tags designate the property beyond the tag is owned or managed by entities other than the BLM. These trees should only be used for the purpose of spacing on the interior of the unit. Any trees with boundary/property tags shall not be cut.
- Retain all hardwoods greater than twelve inches (12") DBH. Do not include in spacing.
- Retain all non-hazardous snags and pre-existing down material greater than twelve inches (12") at the large end diameter.

Unit: 27-2 (7 ac) Area "B" on Exhibit E map

- Commercial Thin, maintain 40% canopy cover. Before falling any trees in these units, the Purchaser shall conduct a sample mark as outlined in Exhibit E. Sample area size shall be approximately one-half (1/2) acre. Identification of leave trees may be done by flagging or paint as approved by the Authorized Officer. Additional marking may be required based on the results of the sample mark. Upon acceptance of the sample mark by the Authorized Officer, the Purchaser may proceed with operations.
- Remove all Douglas-fir that meet merchantable specifications that are within fifteen feet (15') slope distance of another live Douglas-fir with a larger stump diameter. Beyond the fifteen foot (15') slope distance leave the next closest Douglas-fir with the largest stump diameter and repeat the spacing mark.
- Retain all cedar and do not include in spacing mark.
- For trees with two stems, the diameter at stump height (four inches (4")) on the uphill side) shall determine whether the tree is a take or leave tree and to be used in the spacing mark.

-Unit boundary trees marked with orange paint shall not be removed. Retain all unit boundary trees. Unit boundary trees may be included in spacing **IF** they would be selected as a leave tree based on stump diameter.

-Along boundaries designated by white timber sale boundary tags the purchaser may use conifers outside of the unit to be included in the spacing **IF** they would be selected as a leave tree based on stump diameter. This does not apply to conifers that exist beyond unit boundaries designated by orange and white property tags. Orange and white property tags designate the property beyond the tag is owned or managed by entities other than the BLM. These trees should only be used for the purpose of spacing on the interior of the unit. Any trees with boundary/property tags shall not be cut.

-Retain all hardwoods greater than twelve inches (12") DBH. Do not include in spacing.

-Retain all non-hazardous snags and pre-existing down material greater than twelve inches (12") at the large end diameter.

Unit: 27-3 (26 ac), Area "C" on Exhibit E map

- Commercial Thin with leave tree mark, maintain 40% canopy cover. Before falling any trees in these units, the Purchaser shall conduct a sample mark as outlined in Exhibit E. Sample area size shall be approximately one-half (1/2) acre. Identification of leave trees may be done by flagging or paint as approved by the Authorized Officer. Additional marking may be required based on the results of the sample mark. Upon acceptance of the sample mark by the Authorized Officer, the Purchaser may proceed with operations.

-Remove all Douglas-fir that meet merchantable specifications that are within eighteen feet (18') slope distance of another live Douglas-fir with a larger stump diameter. Beyond the eighteen foot (18') slope distance leave the next closest Douglas-fir with the largest stump diameter and repeat the spacing mark.

-For trees with two stems, the diameter at stump height (four inches (4") on the uphill side) shall determine whether the tree is a take or leave tree and to be used in the spacing mark.

-51 trees within the unit have been selected as leave trees. These are designated with one orange band of paint, and orange at the base of the tree. Retain all orange marked trees within unit boundaries as described above. Orange marked trees are invisible to the spacing mark.

-Unit boundary trees marked with orange paint shall not be removed. Retain all unit boundary trees. Unit boundary trees may be included in spacing **IF** they would be selected as a leave tree based on stump diameter.

-Along boundaries designated by white timber sale boundary tags the purchaser may use conifers outside of the unit to be included in the spacing **IF** they would be selected as a leave tree based on stump diameter. This does not apply to conifers that exist beyond unit boundaries designated by orange and white property tags. Orange and white property tags designate the property beyond the tag is owned or managed by entities other than the BLM. These trees should only be used for the purpose of spacing on the interior of the unit. Any trees with boundary/property tags shall not be cut.

-Retain all hardwoods greater than twelve inches (12") DBH. Do not include in spacing.

-Retain all non-hazardous snags and pre-existing down material greater than twelve inches (12") at the large end diameter.

Unit 33-6-26.0 (3 ac)

-Remove all trees marked with blue paint

Units 27-1RW (1 ac), 27-3RW (1 ac), 27-4RW (1 ac)

-Remove all trees within the flagged and tagged clearing limits. Clearing limits are flagged with red.

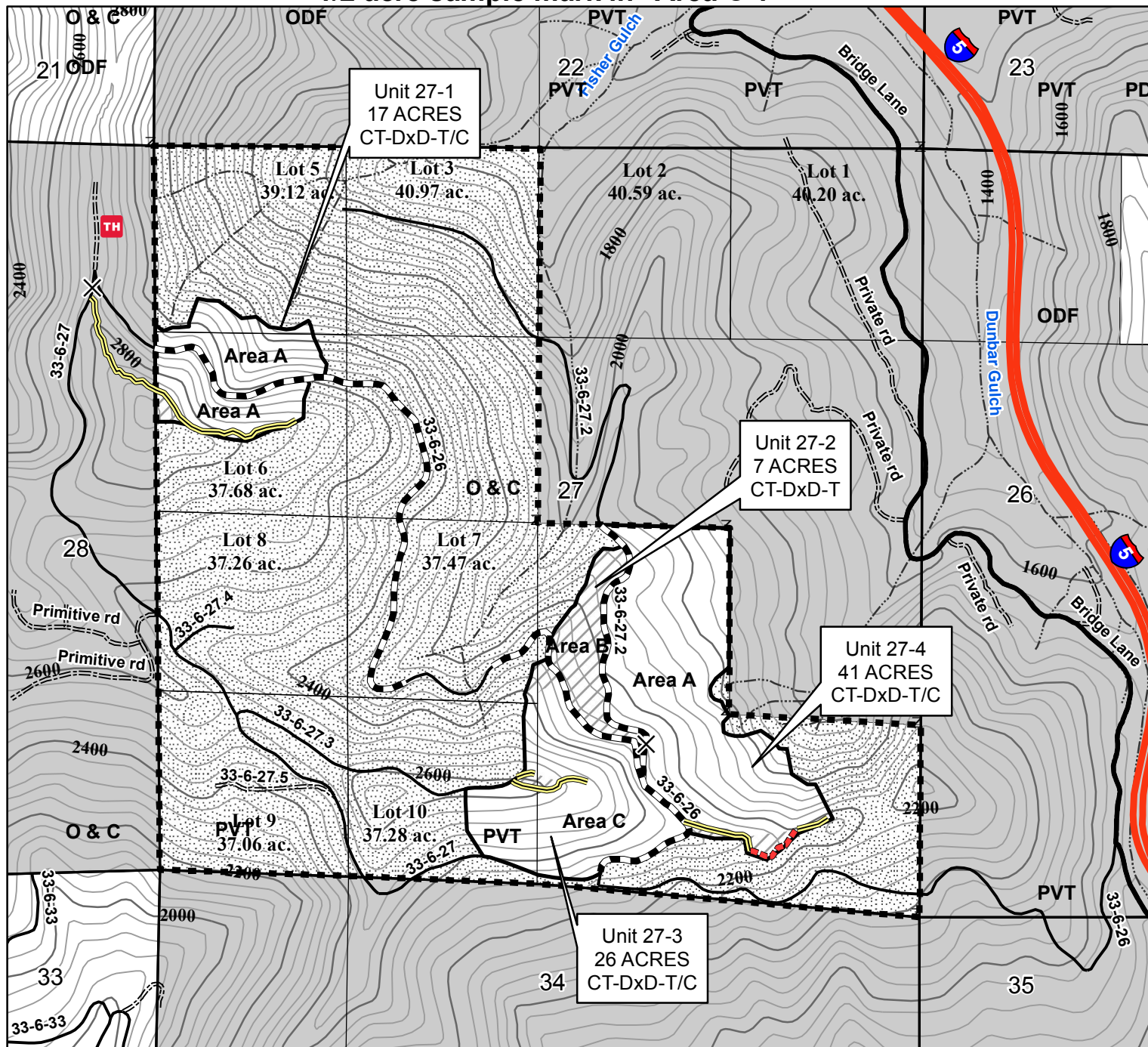
-Retain all tagged trees.

-Retain all trees that are flagged around bole of tree.

DEFINITIONS:

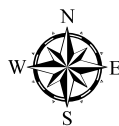
- Distances between trees are measured slope distances, outside bark at stump height to outside bark at stump height at the closest face between trees. DxD stump height is six (6") inches on the high side of the tree and is used only for measurement purposes and not to be confused with contract felling stump height
- Diameter breast height outer bark (DBHOB) is measured at four point five (4.5') feet above the ground on the uphill side of the tree. Diameters are measured perpendicular to the bole of the tree.
- All trees determined to be removed by these guidelines cannot be used to remove another tree with a smaller stump diameter.
- Bole – The well-defined trunk portion of a tree, also called the stem.
- Canopy cover – The ground area covered by the crowns of mid-story and larger trees as delimited by the vertical projection of crown perimeters expressed as a percent of total ground area. For the purposes of this contract canopy cover cannot exceed 100%.
- Conifer – A tree that is usually evergreen with cones and needle-shaped leaves and produce wood known commercially as "soft wood".
- Cut tree – A tree designated by the silvicultural prescription which is to be removed.
- DBH – Diameter of the tree at breast height, measured at four point five (4.5') above the ground level from the uphill side of the tree.
- Hardwoods – A broad-leaved tree which usually has a single well-defined trunk and is capable of attaining a height greater than 20 feet. Hardwoods include, but are not limited to species such as alder, chinquapin, bigleaf maple, madrone, and oak species. Sprouting hardwood species may be in the form of multi-stemmed clumps originating from the base of a single defined stump.
- Leave tree – Tree to be retained as designated by the silvicultural prescription.
- Slope Distance – The distance between two points as measured on the incline.
- Snag – A standing dead tree from which the leaves and most of the branches have fallen or a standing section of the stem of a tree broken off at a height of twenty (20') feet or more.
- Stem – The trunk of a tree.
- Stump Diameter – For the purpose of this contract stump diameter is measured at six (6") inches from the ground on the up-hill side of the tree.

***** As specified in Exhibit E, conduct a 1/2 acre sample mark in "Area A",
conduct a 1/2 acre sample mark in "Area B", and conduct a
1/2 acre sample mark in "Area C".**



0 750 1,500 3,000 Feet

1 inch = 1,000 feet



40 FOOT CONTOUR INTERVAL

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

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.

Map created by SQF
10/11/2012





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

| | |
|-----------------------------------|------------------------------------|
| District : Medford | Contract # : TS 13-02 |
| Sale Name : London Peak | Job File # : M11287 |
| Sale Date : 12/20/2012 | Master Unit : Josephine |
| Appraisal Method : 16' MBF | Planning Unit : Grants Pass |

Contents

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| Prospectus | 4 |
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| Other Allowances Costs | 10 |
| Consolidated Comments | 11 |

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

Medford
London Peak
TS 13-02

Legal Description

| Forest Type | Township | Range | Section | Subdivision |
|-------------|----------|-------|---------|--|
| O&C | T33S | R6W | 27 | Lots 5,6,7,10, SE1/4NW1/4, W1/2SE1/4, SE1/4SE1/4 |

Cutting Volume (16' MBF)

| Unit | DF | | | | | | | | Total | Regen | Partial | ROW |
|---------|-------|--|--|--|--|--|--|--|-------|-------|---------|-----|
| 27-1 | 165 | | | | | | | | 165 | 0 | 17 | 0 |
| 27-1RW | 17 | | | | | | | | 17 | 0 | 0 | 1 |
| 27-2 | 23 | | | | | | | | 23 | 0 | 7 | 0 |
| 27-3 | 418 | | | | | | | | 418 | 0 | 26 | 0 |
| 27-3RW | 19 | | | | | | | | 19 | 0 | 0 | 1 |
| 27-4 | 497 | | | | | | | | 497 | 0 | 41 | 0 |
| 27-4RW | 14 | | | | | | | | 14 | 0 | 0 | 1 |
| 33-6-26 | 43 | | | | | | | | 43 | 0 | 0 | 3 |
| Totals | 1,196 | | | | | | | | 1,196 | 0 | 91 | 6 |

Logging Costs per 16' MBF

| | | |
|--------------------|----|--------|
| Stump to Truck | \$ | 212.24 |
| Transportation | \$ | 29.33 |
| Road Construction | \$ | 38.96 |
| Road Amortization | \$ | 0.00 |
| Road Maintenance | \$ | 8.32 |
| Other Allowances : | | |

| | |
|---------------------------------|-----------------|
| Fuels Treatment | \$ 7.64 |
| Misc | \$ 0.45 |
| Other Costs | \$ 7.55 |
| Total Other Allowances : | \$ 15.64 |

Profit & Risk

| | |
|---------------------|---------------------------|
| Total Profit & Risk | 8 % |
| Basic Profit & Risk | 7 % + Additional Risk 1 % |
| Back Off | 0 % |

Tract Features

| | | |
|--------------------------------|---------------------|-------------|
| Avg Log | Douglas-fir : 33 bf | All : 33 bf |
| Recovery | Douglas-fir : 93 % | All : 93 % |
| Salvage | Douglas-fir : 0 % | All : 0 % |
| Avg Volume (16' MBF per Acre) | | 12 |
| Avg Yarding Slope | | 0 % |
| Avg Yarding Distance (feet) | | 0 |
| Avg Age | | 50 |
| Volume Cable | | 87 % |
| Volume Ground | | 13 % |
| Volume Aerial | | 0 % |
| Road Construction Stations | | 0.00 |
| Road Improvement Stations | | 0.00 |
| Road Renovation Stations | | 0.00 |
| Road Decommission Stations | | 0.00 |

Cruise

| | |
|----------------|--------------------|
| Cruised By | Caulfield, Dowding |
| Date | 09/01/2012 |
| Type of Cruise | PCMTRE, BLM 100% |
| County, State | Josephine, OR |

Net Volume

| | |
|--|----------|
| Green (16' MBF) | 1,196 |
| Salvage (16' MBF) | 0 |
| Douglas-fir Peeler | 0 |
| Export Volume | 0 |
| Scaling Allowance (\$0.75 per 16' MBF) | \$897.00 |

Total Logging Costs per 16' MBF

\$ 304.49

Utilization Centers

| | |
|--|----------|
| Center #1 : Glendale | 13 Miles |
| Center #2 | 0 Miles |
| Weighted distance to Utilization Centers | 13 |

Length of Contract

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Medford
London Peak
TS 13-02

Stumpage Summary

Stumpage Computation (16' MBF)

| Species | Trees | Net Volume | Pond Value | (-) Profit & Risk | (-) Logging Cost | (+) Marginal Log Value | (-) Back Off | Appraised Price | Appraised Value |
|---------|--------|---------------|---------------|-------------------------|------------------------|------------------------------|--------------------|--------------------|--------------------|
| DF | 11,842 | 1,196 | \$ 456.10 | \$ 36.49 | \$ 304.49 | | | \$ 115.10 | \$ 137,659.60 |
| Totals | 11,842 | 1,196 | | | | | | | \$ 137,659.60 |

Log Code by Percent

| Species | Code #1 | Code #2 | Code #3 | Code #4 | Code #5 | Code #6 |
|-------------|---------|---------|---------|---------|---------|---------|
| Douglas-fir | | | | 5.0 | 82.0 | 13.0 |

Marginal Log Volume

| Species | Grade #7 | Grade #8 |
|-------------|----------|----------|
| Douglas-fir | | |

Appraised By : Caulfield, Dave

Date : 10/10/2012

Area Approval By : Franks, Annie

Date : 10/31/2012

District Approval By :

Date :

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

Medford
London Peak
TS 13-02

Prospectus

Appraisal Method : (16' MBF)

| Species | Trees | Net Volume 16' MBF | Net Volume 32' MBF | Net Volume CCF |
|--------------|---------------|-----------------------|-----------------------|-------------------|
| Douglas-fir | 11,842 | 1,196 | 1,030 | 2,303 |
| Total | 11,842 | 1,196 | 1,030 | 2,303 |

All Species

| Gross Volume | Number Trees | Avg bf Volume Per Tree | DBH | Gross Merch Volume | Merch Logs | Avg bf Gross Merch Log |
|--------------|--------------|------------------------|------|--------------------|------------|------------------------|
| 1,288 | 11,842 | 108 | 11.5 | 1,278 | 39,087 | 33 |

| Merch Logs | Cull Logs | Total Logs | Logs per Tree | Net Volume | Gross Volume | Recovery |
|------------|-----------|------------|---------------|------------|--------------|----------|
| 39,087 | 539 | 39,626 | 3.3 | 1,196 | 1,288 | 93 % |

Douglas-fir

| Gross Volume | Number Trees | Avg bf Volume Per Tree | DBH | Gross Merch Volume | Merch Logs | Avg bf Gross Merch Log |
|--------------|--------------|------------------------|------|--------------------|------------|------------------------|
| 1,288 | 11,842 | 108 | 11.5 | 1,278 | 39,087 | 33 |

| Merch Logs | Cull Logs | Total Logs | Logs per Tree | Net Volume | Gross Volume | Recovery |
|------------|-----------|------------|---------------|------------|--------------|----------|
| 39,087 | 539 | 39,626 | 3.3 | 1,196 | 1,288 | 93 % |

Cutting Areas

| Unit | Regen Acres | Partial Cut Acres | Right Of Way Acres | Total Acres |
|-----------------|-------------|-------------------|--------------------|-------------|
| 27-1 | | 17 | | 17 |
| 27-1RW | | | 1 | 1 |
| 27-2 | | 7 | | 7 |
| 27-3 | | 26 | | 26 |
| 27-3RW | | | 1 | 1 |
| 27-4 | | 41 | | 41 |
| 27-4RW | | | 1 | 1 |
| 33-6-26 | | | 3 | 3 |
| Totals : | | 91 | 6 | 97 |

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

Medford
London Peak
TS 13-02

Exhibit B

The following estimates and calculations of timber sold are made solely as an administrative aid for determining: (1) Adjustments made or credits given in accordance with Sections 6, 9, or 11; (2) When payments are due; and (3) Value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the authorized officer, which has been cut or removed or designated for taking.

Except provided in Section 2, Purchaser shall be liable for the total purchase price even though the quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on the Exhibit A.

Sale Totals (16' MBF)

| Species | Net Volume | Bid Price | Sale SubTotal |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 1,196 | | |
| Sale Totals | 1,196 | | |

Unit Details (16' MB)

Unit 27-1 17 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 165 | | |
| Unit Totals | 165 | | |

Unit 27-1RW 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 17 | | |
| Unit Totals | 17 | | |

Unit 27-2 7 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 23 | | |
| Unit Totals | 23 | | |

Unit 27-3 26 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|-------------|---------------|--------------|------------------|
| Douglas-fir | 418 | | |
| Unit Totals | 418 | | |

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

Medford
London Peak
TS 13-02

Unit 27-3RW 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 19 | | |
| Unit Totals | 19 | | |

Unit 27-4 41 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 497 | | |
| Unit Totals | 497 | | |

Unit 27-4RW 1 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 14 | | |
| Unit Totals | 14 | | |

Unit 33-6-26 3 Acres Value per Acre : \$0.00

| Species | Net Volume | Bid Price | Species Value |
|--------------------|-----------------------|----------------------|--------------------------|
| Douglas-fir | 43 | | |
| Unit Totals | 43 | | |

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

Medford
London Peak
TS 13-02

Sale Volume Totals

97 Acres 0 Regen 91 Partial 6 R/W 8 Units

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Net | 16' MBF GM | 16' MBF Gross | 32' MBF Net | 32' MBF GM | 32' MBF Gross | CCF Net | CCF GM | CCF Gross |
|---------------|---------------|---------------|------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Douglas-fir | 11,842 | 39,087 | 539 | 1,196 | 1,278 | 1,288 | 1,030 | 1,102 | 1,112 | 2,303 | 2,442 | 2,460 |
| Totals | 11,842 | 39,087 | 539 | 1,196 | 1,278 | 1,288 | 1,030 | 1,102 | 1,112 | 2,303 | 2,442 | 2,460 |

Unit Totals

Unit : 27-1 17 Acres 0 Regen 17 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|--------------|--------------|-----------|---------------|------------|-------------|
| Douglas-fir | 1,353 | 4,970 | | 176 | 176 | 165 |
| Unit Totals | 1,353 | 4,970 | | 176 | 176 | 165 |

Unit : 27-1RW 1 Acres 0 Regen 0 Partial 1 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|------------|-----------|---------------|------------|-------------|
| Douglas-fir | 143 | 465 | 13 | 18 | 18 | 17 |
| Unit Totals | 143 | 465 | 13 | 18 | 18 | 17 |

Unit : 27-2 7 Acres 0 Regen 7 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|------------|-----------|---------------|------------|-------------|
| Douglas-fir | 242 | 749 | | 24 | 24 | 23 |
| Unit Totals | 242 | 749 | | 24 | 24 | 23 |

Unit : 27-3 26 Acres 0 Regen 26 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|--------------|---------------|------------|---------------|------------|-------------|
| Douglas-fir | 4,492 | 14,351 | 457 | 453 | 446 | 418 |
| Unit Totals | 4,492 | 14,351 | 457 | 453 | 446 | 418 |

Unit : 27-3RW 1 Acres 0 Regen 0 Partial 1 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|------------|------------|-----------|---------------|------------|-------------|
| Douglas-fir | 106 | 382 | 32 | 22 | 20 | 19 |
| Unit Totals | 106 | 382 | 32 | 22 | 20 | 19 |

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Unit : 27-4 41 Acres 0 Regen 41 Partial 0 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 5,109 | 16,755 | | 533 | 533 | 497 |
| Unit Totals | 5,109 | 16,755 | | 533 | 533 | 497 |

Unit : 27-4RW 1 Acres 0 Regen 0 Partial 1 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 138 | 433 | 14 | 16 | 15 | 14 |
| Unit Totals | 138 | 433 | 14 | 16 | 15 | 14 |

Unit : 33-6-26 3 Acres 0 Regen 0 Partial 3 R/W

| SpeciesName | # of Trees | Merch Logs | Cull Logs | 16' MBF Gross | 16' MBF GM | 16' MBF Net |
|--------------------|-----------------------|-----------------------|----------------------|--------------------------|-----------------------|------------------------|
| Douglas-fir | 259 | 982 | 23 | 46 | 46 | 43 |
| Unit Totals | 259 | 982 | 23 | 46 | 46 | 43 |

**UNITED STATES
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London Peak
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Stump to Truck Costs

Total (16' MBF)

| Total Stump to Truck Costs | Net Volume | Cost / Net Volume |
|---------------------------------------|-----------------------|------------------------------|
| \$ 253,837.55 | 1,196 | \$ 212.24 |

Detail

Yarding & Loading

| Yarding System | Unit Of Measure | Units | Cost / Unit | Total Cost |
|-----------------------|----------------------------|--------------|------------------------|-----------------------|
| Short Twr<40 | MBF | 1,115 | \$ 211.81 | \$ 236,168.15 |
| Track Skidder | MBF | 163 | \$ 97.80 | \$ 15,941.40 |
| Subtotal | | | | \$ 252,109.55 |

Other Costs

| Explanation | Unit Of Measure | Units | Cost / Unit | Total Cost |
|---------------------|----------------------------|--------------|------------------------|-----------------------|
| Directional Falling | MBF | 120 | \$ 14.40 | \$ 1,728.00 |
| Subtotal | | | | \$ 1,728.00 |

Additional Move-Ins

| Equipment | # Move-In | Cost / Move In | Total Cost |
|------------------|------------------|---------------------------|-----------------------|
| | | | |
| Subtotal | | | |

**UNITED STATES
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Other Allowances Costs

Total (16' MBF)

| Total Other Allowances Costs | Net Volume | Cost / Net Volume * | Total Buy Out Cost |
|-------------------------------------|-------------------|----------------------------|---------------------------|
| \$18,708.48 | 1,196 | \$15.64 | \$0.00 |

Fuels Treatment

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|--------------------------|--------------------|-------------------------|----------------|---------------------|
| Lop and Scatter-Lvl 1 | \$ 1,000.00 | \$ 0.84 | N | \$ 0.00 |
| Hand Pile, Cvr - Level 1 | \$ 7,788.48 | \$ 6.51 | N | \$ 0.00 |
| Hand Pile, Cvr - Level 6 | \$ 350.00 | \$ 0.29 | N | \$ 0.00 |
| Subtotal | \$ 9,138.48 | \$ 7.64 | | \$ 0.00 |

Misc

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|-------------------------|-------------------|-------------------------|----------------|---------------------|
| Sample Marking | \$ 160.00 | \$ 0.13 | | \$ 0.00 |
| Waterbar Corridors | \$ 192.00 | \$ 0.16 | | \$ 0.00 |
| Cover Corridors (slash) | \$ 192.00 | \$ 0.16 | | \$ 0.00 |
| Subtotal | \$ 544.00 | \$ 0.45 | | \$ 0.00 |

Other Costs

Detail (16' MBF)

| Cost Item | Total Cost | Cost / Net Vol * | Buy Out | Buy Out Cost |
|------------------------------------|--------------------|-------------------------|----------------|---------------------|
| Ripping | \$ 900.00 | \$ 0.75 | N | \$ 0.00 |
| Hand Seeding @ 17 lb seed per hour | \$ 166.00 | \$ 0.14 | N | \$ 0.00 |
| Mulching (2 hours/5 bales) | \$ 312.00 | \$ 0.26 | N | \$ 0.00 |
| Skid Location | \$ 64.00 | \$ 0.05 | N | \$ 0.00 |
| Skid Construction | \$ 150.00 | \$ 0.13 | N | \$ 0.00 |
| Temporary Spur Construction | \$ 1,800.00 | \$ 1.51 | N | \$ 0.00 |
| Waterbar Skids | \$ 300.00 | \$ 0.25 | N | \$ 0.00 |
| Stream and Culvert Cleaning | \$ 128.00 | \$ 0.11 | N | \$ 0.00 |
| Barricades | \$ 600.00 | \$ 0.50 | N | \$ 0.00 |
| Landing Construction | \$ 2,400.00 | \$ 2.01 | N | \$ 0.00 |
| Landing Clean up | \$ 1,950.00 | \$ 1.63 | N | \$ 0.00 |
| Equipment Washing | \$ 256.00 | \$ 0.21 | N | \$ 0.00 |
| Subtotal | \$ 9,026.00 | \$ 7.55 | | \$ 0.00 |

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

**UNITED STATES
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Consolidated Comments**

Medford
London Peak
TS 13-02

General

Yarding & Loading

Road Costs

(see Engineering Appraisal for details).

Transportation

(see Transportation appendix for details).

Other Allowances

Cover landing Piles is labled as Hand Pile, Cvr-Level 6.

Prospectus

UNITED STATES
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ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1. Road Use - Amortization: (1) \$0.00/1196 MBF = \$0.00/MBF 1/
(RC-3 & RC-3a) (Tot Sale Vol)

2. Road Maintenance Obligation:

| | | | | | | | | |
|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-------------------|
| \$0.00 (2.1) | + | \$0.00 (3.1) | + | \$0.00 (4.1) | + | \$0.00 (5.1) | = | \$0.00 (RC-2c) |
|-----------------|---|-----------------|---|-----------------|---|-----------------|---|-------------------|

3. Rockwear Obligation:

| | | | | | | | | |
|-----------------|---|-----------------|---|-------------------|---|-----------------|---|---------------------|
| \$0.00 (4.2) | + | \$0.00 (5.2) | + | \$949.97 (7.1) | + | \$0.00 (7.2) | = | \$949.97 (RC-2g) |
|-----------------|---|-----------------|---|-------------------|---|-----------------|---|---------------------|

4. Other Maintenance Payments:

| | | | |
|--|-----------|---|-------------------|
| | Total (6) | = | \$0.00 (RC-3a) |
|--|-----------|---|-------------------|

5. Purchaser Maintenance Allowances:

| | |
|---|-----------|
| (7.3A) Move In | \$1156.00 |
| (7.3B) Culverts, Catch Basins, Downspouts | \$264.30 |
| (7.3C) Grading, Ditching | \$651.90 |
| (7.3D) Slide Removal and Slump Repair | \$0.00 |
| (7.3E) Dust Palliative (Water) | \$6925.60 |
| (7.3F) Surface Repair (Aggregate) | \$0.00 |
| (7.3G) Dust Palliative (Bituminous, Lignin, MgCl) . . . | \$0.00 |
| (7.3H) Other | \$0.00 |

| | | | |
|--|-------------|---|-----------------------------|
| | Total (7.3) | = | \$8997.80 (RC-2a & Ex D) |
|--|-------------|---|-----------------------------|

(2+3+4+5) Total = \$9,947.77/1196 MBF = \$8.32/MBF 1/
(Total Sale Vol)

1. Road Use Fees - Amortization

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

(1) Subtotal

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

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

(2.1) Subtotal

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

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

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

(3.1) Subtotal

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

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

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

(4.1) Subtotal (4.2) Subtotal

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

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

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

(5.1) Subtotal (5.2) Subtotal

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

6. Other Maintenance Payments - USFS or Others Perform Maintenance

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

(6) Subtotal

7. Purchaser Maintenance - Rock Wear

TIMBER HAUL (7.1)

ROCK HAUL (7.2) 2/ 3/

| Road No 1/ and Segment | A | RkWear | | Vol | Total | RkWear | | Vol | Total |
|---------------------------|---|--------|---------|------|----------|--------|---------|-------|--------|
| | N | Mi | x Fee x | MBF | = RkWear | Mi | x Fee x | C.Y.= | RkWear |
| 33-6-26.0D | A | 0.20 | 0.51 | 100 | \$10.20 | | | | |
| 33-6-26.0C3 | A | 1.10 | 0.51 | 225 | \$126.23 | | | | |
| 33-6-26.0C2 | A | 0.22 | 0.51 | 248 | \$27.83 | | | | |
| 33-6-26.0C1 | A | 0.21 | 0.51 | 759 | \$81.29 | | | | |
| 33-6-26.0B | A | 0.47 | 0.51 | 1196 | \$286.68 | | | | |
| 33-6-26.0A2 | A | 0.19 | 0.51 | 1196 | \$115.89 | | | | |
| 33-6-27.0A3 | N | 0.27 | 0.51 | 437 | \$60.17 | | | | |
| 33-6-27.0A2 | N | 0.07 | 0.51 | 437 | \$15.60 | | | | |
| 33-6-27.0A1 | N | 0.26 | 0.51 | 437 | \$57.95 | | | | |
| 33-6-27.2A | A | 0.45 | 0.51 | 330 | \$75.74 | | | | |
| 33-6-27.3 | N | 0.41 | 0.51 | 437 | \$91.38 | | | | |
| 33-6-27.0B | N | 0.02 | 0.51 | 100 | \$1.02 | | | | |

(7.1) Subtotal \$949.97

(7.2) Subtotal \$0.00

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

7. Purchaser Operational Maintenance

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

7.3A Move In

| Equipment 1/ | No | Move | Cost/ | Dist | Sub- |
|----------------|-------|--------|----------|--------|----------|
| | Units | x in x | 50 Mi x | Factor | = total |
| Motor Grader: | 1 | 1 | \$356.00 | 1.00 | \$356.00 |
| Back Hoe: | 1 | 1 | \$356.00 | 1.00 | \$356.00 |
| Loader: | | | \$356.00 | 0.59 | \$0.00 |
| Water Truck: | 1 | 1 | \$216.00 | 1.00 | \$216.00 |
| Dump Truck 2/: | 1 | 1 | \$228.00 | 1.00 | \$228.00 |

(7.3A) Total \$1156.00

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

7.3B Culvert Maintenance - Including Catchbasins and Downpipes 1/

| Miles | x | Cost/Mi | = | Subtotal |
|-------|---|---------|---|----------|
| 1.00 | | 264.30 | | \$264.30 |

(7.3B) Total \$264.30

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

7.3C Grading (Includes Ditches and Shoulders) 1/

| | Miles | x | Cost/Mi | x Freq | = Subtotal |
|--------------|-------|---|---------|--------|------------|
| Blade Road: | 1.00 | | 512.82 | 1 | \$512.82 |
| Blade Ditch: | 1.00 | | 139.08 | 1 | \$139.08 |

(7.3C) Total \$651.90

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

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

| Type Equipment | No Slides /Slumps | Hours x Each x | Equip Cost | = Subtotal |
|-------------------|----------------------|-------------------|---------------|------------|
| Grader: | 0 | 0 | 137.80 | \$0.00 |
| Loader: | 0 | 0 | 89.31 | \$0.00 |
| Backhoe: | 0 | 0 | 64.75 | \$0.00 |

(7.3D) Total \$0.00

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

7.3E Dust Palliative (Water) 1/

Spreading Hours

| Miles | / MPH | = Hours | x No Days | x Freq /Day | = Truck Hours |
|--------------------------------|-------|---------|--------------|----------------|--------------------|
| 0.00 | 0 | | 0 | 0 | 0.0 |
| Load & Haul-Roundtrip = | | 2.0 | 40 | 1 | 80.0 |
| Fixed Hours (3000 Gal. tanker) | | | | | |
| | | | | | Total Hours = 80.0 |

Truck Cost: \$86.57/Hr. x 80.0 Hours = \$6925.60

(7.3E) Total \$6925.60

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

7.3F Surface Repair (Aggregate)

| | | | |
|----------------------|--------------------------------|---|--------|
| Production Cost: 1/ | 0 C.Y. x \$0.00/C.Y. | = | \$0.00 |
| Haul to Stockpile: | 0 C.Y. x \$2.32/C.Y. x 0.00 Mi | = | \$0.00 |
| Stockpile: | 0 C.Y. x \$1.25/C.Y. | = | \$0.00 |
| Load from Stockpile: | 0 C.Y. x \$1.38/C.Y. | = | \$0.00 |
| Haul from Stockpile: | 0 C.Y. x \$2.32/C.Y. x 0.00 Mi | = | \$0.00 |
| Process with Grader: | 0 C.Y. x \$0.77/C.Y. | = | \$0.00 |

(7.3F) Total \$0.00

1/ Use unit cost from Road Construction Cost Guide.

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

(7.3G) Total

7.3H Other

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

(7.3H) Total \$0.00

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

UNITED STATES
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Summary of All Roads and Projects

T.S. Update 05/15/12

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Prepared by: Brown Ph: Print Date: 11/9/2012 2:54:15 PM

Construction: 220.71 sta (Surfaced 142.56 sta Natural 78.15 sta)

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

| | |
|---|-------------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing: 0.0 sta Grubbing: 0.0 acres | |
| Slash Treatment: 0.0 acres | |
| 300 Excavation: | \$0.00 |
| Haul: 0 sta-yds | |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$12,224.34 |
| Blading 4.18 mi | |
| Slide Removal 10 cy | |
| Surfacing: | \$27,135.66 |
| 1200 Quarry Name: Commercial Source 1,234 cy | |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$4,180.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$2,500.00 Surf. \$555.00..... | \$3,055.00 |
| Quarry Development: | \$0.00 |

Total: 1,196 mbf @ \$38.96/mbf = \$46,595.00

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities are COMPACTED in place cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: London Peak Sale Date: 10/10/2012
Road Number: 33-6-26.0A1-D Road Name: Wolf Creek Divide
 Road Construction: 2.70 mi 14 ft Subgrade 3 ft ditch

T.S. Update 05/15/12

| | |
|---|-------------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing:0.0 sta Grubbing:0.0 acres | |
| Slash Treatment:0.0 acres | |
| 300 Excavation: | \$0.00 |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$7,150.87 |
| Blading 2.70 mi | |
| Surfacing: | \$27,135.66 |
| 1200 Quarry Name: Commercial Source 1,234 cy | |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$2,700.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$2,123.71 Surf. \$555.00..... | \$2,678.71 |
| Quarry Development: | \$0.00 |
| Total: | \$39,665.24 |

Notes:

Quantities shown are estimates only and not pay items.
 Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-6-26.0A1-D Road Name: Wolf Creek Divide

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: Compaction includes water costs

Blading: \$512.82/mi x 2.70 mi = \$1,384.61

Pull Ditches: \$139.08/mi x 1.70 mi = \$236.44

Compaction: \$1307.22/mi x 2.70 mi = \$3,529.49

Clean Culverts: \$264.30/mi x 2.70 mi = \$713.61

Road Maintenance

Vib roller: Steel drum 8 hr x \$74.27/hr = \$594.16

Water truck 3000 gal 8 hr x \$86.57/hr = \$692.56

Subtotal: \$7,150.87

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

| <u>Length</u> | <u>TopW</u> | <u>BotW</u> | <u>Depth</u> | <u>CWid</u> | <u>#TOs</u> | <u>Width</u> | <u>F.W.L</u> | <u>Taper</u> | <u>Other</u> |
|---------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|
| 1.00mi | 15ft | 16ft | 4in | 10% | 10 | 10ft | 50ft | 25ft | |

Rock Volume = 1,204cy

Production: \$9.04/cy x 1,204cy = \$10,884.16

Processing: \$1.38/cy x 1,204cy = \$1,661.52

Compaction: \$0.77/cy x 1,204cy = \$927.08

T11 Testing: \$0.06/cy x 1,204cy = \$72.24

T27 Testing: \$0.06/cy x 1,204cy = \$72.24

Stockpiling: \$1.38/cy x 1,204cy = \$1,661.52

Basic Rock Haul cost: \$0.93/cy x 1,204cy = \$1,119.72

Rock Haul St& Co Roads: \$0.62/cy-mi x 1,204cy x 12.00 mi= \$8,957.76

Basic Water Haul cost: \$0.61/cy x 1,204cy = \$734.44

Water Haul St&Co Roads: \$0.08/cy-mi x 1,204cy x 4.00 mi= \$385.28

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

| <u>Length</u> | <u>TopW</u> | <u>BotW</u> | <u>Depth</u> | <u>CWid</u> | <u>#TOs</u> | <u>Width</u> | <u>F.W.L</u> | <u>Taper</u> | <u>Other</u> |
|---------------|-------------|-------------|--------------|-------------|-------------|--------------|--------------|--------------|--------------|
| | | | | | | | | | 30cy |

Rock Volume = 30cy

Production: \$9.04/cy x 30cy = \$271.20

Processing: \$1.38/cy x 30cy = \$41.40

Compaction: \$0.77/cy x 30cy = \$23.10

T11 Testing: \$0.06/cy x 30cy = \$1.80

T27 Testing: \$0.06/cy x 30cy = \$1.80

Stockpiling: \$1.38/cy x 30cy = \$41.40

Basic Rock Haul cost: \$0.93/cy x 30cy = \$27.90

Rock Haul St& Co Roads: \$0.62/cy-mi x 30cy x 12.00 mi= \$223.20

Basic Water Haul cost: \$0.61/cy x 30cy = \$18.30

Water Haul St&Co Roads: \$0.08/cy-mi x 30cy x 4.00 mi= \$9.60

Subtotal: \$27,135.66

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Road Number: 33-6-26.0A1-D Wolf Creek Divide Continued

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Roadside Brushing and Chipping

Brushing and Chipping 2.70 Mile x \$1,000.00/Mile = \$2,700.00

Subtotal: \$2,700.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 84.95% of total Costs = \$2,123.71

Surfacing - 100.00% by rock volume = \$555.00

Subtotal: \$2,678.71

Quarry Development:

Based on 100.00% of total rock volume

Subtotal: \$0.00

Total: \$39,665.24

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Road Number: 33-6-27.0 B Road Name: London Peak

Road Construction: 0.02 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

| | |
|--|----------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing:0.0 sta Grubbing:0.0 acres | |
| Slash Treatment:0.0 acres | |
| 300 Excavation: | \$0.00 |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$436.40 |
| Blading 0.02 mi | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$20.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$26.21 Surf. \$0.00..... | \$26.21 |
| Quarry Development: | \$0.00 |
| Total: | \$482.61 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-6-27.0 B Road Name: London Peak

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$512.82/\text{mi} \times 0.02 \text{ mi} = \10.26

Compaction: $\$1307.22/\text{mi} \times 0.02 \text{ mi} = \26.14

Road Maintenance

Removal and Replacement of Jersey Barrier

2 Each x \$200.00/Each = \$400.00

Subtotal: \$436.40

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Roadside Brushing & Chipping

Brushing and Chipping 0.02 Mile x \$1,000.00/Mile = \$20.00

Subtotal: \$20.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 1.05% of total Costs = \$26.21

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$26.21

Quarry Development:

Road Number: 33-6-27.0 B London Peak Continued

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$482.61

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Road Number: 33-6-27.0A1-A3 Road Name: London Peak

Road Construction: 0.60 mi 14 ft Subgrade 3 ft ditch T.S. Update 05/15/12

| | |
|---|------------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing:0.0 sta Grubbing:0.0 acres | |
| Slash Treatment:0.0 acres | |
| 300 Excavation: | \$0.00 |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$2,255.33 |
| Blading 0.60 mi | |
| Slide Removal 10 cy | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$600.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$163.95 Surf. \$0.00..... | \$163.95 |
| Quarry Development: | \$0.00 |
| Total: | \$3,019.28 |

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-6-27.0A1-A3 Road Name: London Peak

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: Compaction includes watering costs

Slide Removal 10 cy

Blading: $\$512.82/\text{mi} \times 0.60 \text{ mi} = \307.69

Pull Ditches: $\$139.08/\text{mi} \times 0.60 \text{ mi} = \83.45

Compaction: $\$1307.22/\text{mi} \times 0.60 \text{ mi} = \784.33

Clean Culverts: $\$264.30/\text{mi} \times 0.60 \text{ mi} = \158.58

Road Maintenance

Vib roller: Steel drum 4 hr x $\$74.27/\text{hr} = \297.08

Water truck 3000 gal 4 hr x $\$86.57/\text{hr} = \346.28

Backhoe 24 in 1 hr x $\$64.75/\text{hr} = \64.75

Dump truck 10 cy 1 hr x $\$74.21/\text{hr} = \74.21

Slide Removal

Backhoe 24 in 1 hr x $\$64.75/\text{hr} = \64.75

Dump truck 10 cy 1 hr x $\$74.21/\text{hr} = \74.21

Subtotal: \$2,255.33

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Roadside Brushing and Chipping

Brushing and Chipping 0.60 Mile x $\$1,000.00/\text{Mile} = \600.00

Subtotal: \$600.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Road Number: 33-6-27.0A1-A3 London Peak Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 6.56% of total Costs = \$163.95

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$163.95

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$3,019.28

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Road Number: 33-6-27.2A Road Name: White Fang Road

Road Construction: 0.45 mi 14 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

| | |
|--|------------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing:0.0 sta Grubbing:0.0 acres | |
| Slash Treatment:0.0 acres | |
| 300 Excavation: | \$0.00 |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$1,140.70 |
| Blading 0.45 mi | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$450.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$91.34 Surf. \$0.00..... | \$91.34 |
| Quarry Development: | \$0.00 |

Total: \$1,682.03

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-6-27.2A Road Name: White Fang Road

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: Compaction includes watering cost

Blading: $\$512.82/\text{mi} \times 0.45 \text{ mi} = \230.77

Compaction: $\$1307.22/\text{mi} \times 0.45 \text{ mi} = \588.25

Road Maintenance

Vib roller: Steel drum 2 hr x $\$74.27/\text{hr} = \148.54

Water truck 3000 gal 2 hr x $\$86.57/\text{hr} = \173.14

Subtotal: \$1,140.70

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Roadside Brushing and Chipping

Brushing and Chipping 0.45 Mile x $\$1,000.00/\text{Mile} = \450.00

Subtotal: \$450.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.65% of total Costs = $\$91.34$

Surfacing - 0.00% by rock volume = $\$0.00$

Subtotal: \$91.34

Road Number: 33-6-27.2A White Fang Road Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,682.03

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Road Number: 33-6-27.3 Road Name: Jack's Spur

Road Construction: 0.41 mi 16 ft Subgrade 0 ft ditch

T.S. Update 05/15/12

| | |
|--|------------|
| 200 Clearing and Grubbing: 0.0 acres | \$0.00 |
| Clearing:0.0 sta Grubbing:0.0 acres | |
| Slash Treatment:0.0 acres | |
| 300 Excavation: | \$0.00 |
| 400 Drainage: | \$0.00 |
| Culvert: 0 lf wt = 0 lbs factor = 1.2 | |
| DownSpout: 0 lf | |
| PolyPipe: 0 lf | |
| 500 Renovation: | \$1,241.04 |
| Blading 0.41 mi | |
| Surfacing: | \$0.00 |
| 1300 Geotextiles: | \$0.00 |
| 1400 Slope Protection: | \$0.00 |
| 1800 Soil Stabilization: 0.0 acres | \$0.00 |
| 1900 Cattleguards: | \$0.00 |
| 2100 RoadSide Brushing: 0.0 acres | \$410.00 |
| 2200 Surface Treatment: 0.0 tons | \$0.00 |
| 2300 Engineering: 0.00 sta. | \$0.00 |
| 2400 Minor Concrete: | \$0.00 |
| 2500 Gabions: | \$0.00 |
| 8000 Miscellaneous: | \$0.00 |
| Mobilization: Const. \$94.80 Surf. \$0.00..... | \$94.80 |
| Quarry Development: | \$0.00 |

Total: \$1,745.84

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are COMPACTED in place cubic yards.

Road Construction Worksheet

Road Number: 33-6-27.3 Road Name: Jack's Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Comment: Compaction includes watering cost

Blading: $\$512.82/\text{mi} \times 0.41 \text{ mi} = \210.26

Compaction: $\$1307.22/\text{mi} \times 0.41 \text{ mi} = \535.96

Road Maintenance

Water truck 3000 gal 4 hr x $\$86.57/\text{hr} = \346.28

Vib roller: Steel drum 2 hr x $\$74.27/\text{hr} = \148.54

Subtotal: \$1,241.04

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Subtotal: \$0.00

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Roadside Brushing and Chipping

Brushing and Chipping 0.41 Mile x $\$1,000.00/\text{Mile} = \410.00

Subtotal: \$410.00

Section 2200 Surface Treatment:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 3.79% of total Costs = \$94.80

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$94.80

Road Number: 33-6-27.3 Jack's Spur Continued

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,745.84

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: London Peak Sale Date: 10/10/2012

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Fire Equipment: 1 ea x (1.00 x \$131.00/ea + 20 mi x \$3.50/mi)= \$201.00
Graders-all: 1 ea x (1.00 x \$356.00/ea + 20 mi x \$13.78/mi)= \$631.60
Rollers & Comp: 1 ea x (1.00 x \$356.00/ea + 20 mi x \$14.85/mi)= \$653.00
RTBackhoes 24/30: 1 ea x (1.00 x \$356.00/ea + 20 mi x \$4.84/mi)= \$452.80
Dump Truck<=10cy: 1 ea x (1.00 x \$185.00/ea + 20 mi x \$3.70/mi)= \$259.00
Water Truck: 1 ea x (1.00 x \$216.00/ea + 20 mi x \$4.33/mi)= \$302.60

Subtotal: \$2,500.00

Mobilization: Surfacing

Dump Truck<=10cy: 3ea x (1.00 x \$185.00/ea + 0 mi x \$3.70/mi)= \$555.00

Subtotal: \$555.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: London Peak Sale Date: 10/10/2012

| Road Number | Const | Improv | Renov | Decomm | Temp |
|----------------|--------|--------|-------|--------|------|
| 33-6-26.0A1-D | 142.56 | | | | |
| 33-6-27.0 B | 1.06 | | | | |
| 33-6-27.0A1-A3 | 31.68 | | | | |
| 33-6-27.2A | 23.76 | | | | |
| 33-6-27.3 | 21.65 | | | | |
| Total Sta: | 220.71 | | | | |

| 200 Clearing and Grubbing | Clearing stations | Grubbing acres | Slash acres |
|---------------------------|----------------------|-------------------|----------------|
| Totals: | 0.00 | 0.0 | 0.0 |

| 300 Excavation | Excav C.Y.s | Haul sta-yds |
|----------------|----------------|-----------------|
| Totals: | 0 | 0 |

400 Drainage

Totals: No Quantities

| 500 Renovation | Miles | Slide cy |
|----------------|-------|----------|
| 33-6-26.0A1-D | 2.70 | 0 |
| 33-6-27.0 B | 0.02 | 0 |
| 33-6-27.0A1-A3 | 0.60 | 10 |
| 33-6-27.2A | 0.45 | 0 |
| 33-6-27.3 | 0.41 | 0 |
| Totals: | 4.18 | 10 |

| | | |
|------------------|---|--------|
| Road Maintenance | | |
| 33-6-26.0A1-D | Vib roller: Steel drum | 8 hr |
| 33-6-26.0A1-D | Water truck 3000 gal | 8 hr |
| Road Maintenance | | |
| 33-6-27.0 B | Removal and Replacement of Jersey Barrier | 2 Each |
| Road Maintenance | | |
| 33-6-27.0A1-A3 | | |
| | Vib roller: Steel drum | 4 hr |
| 33-6-27.0A1-A3 | | |
| | Water truck 3000 gal | 4 hr |
| 33-6-27.0A1-A3 | | |
| | Backhoe 24 in | 1 hr |
| 33-6-27.0A1-A3 | | |
| | Dump truck 10 cy | 1 hr |
| Slide Removal | | |
| 33-6-27.0A1-A3 | | |
| | Backhoe 24 in | 1 hr |
| 33-6-27.0A1-A3 | | |
| | Dump truck 10 cy | 1 hr |
| Road Maintenance | | |
| 33-6-27.2A | Vib roller: Steel drum | 2 hr |
| 33-6-27.2A | Water truck 3000 gal | 2 hr |
| Road Maintenance | | |
| 33-6-27.3 | Water truck 3000 gal | 4 hr |
| 33-6-27.3 | Vib roller: Steel drum | 2 hr |

Surfacing (Cubic Yards)

Continuation of Construction Quantities

Quarry Name: Commercial Source

| | | | | |
|--------------------------|---------|----------|-------|-------|
| 1200 Crushed under 1 1/2 | Roadway | Turnouts | Other | |
| 33-6-26.0A1-D | 1,111 | 92 | 0 | 1,203 |
| 33-6-26.0A1-D | 0 | 0 | 30 | 30 |
| Totals: | 1,111 | 92 | 30 | 1,233 |

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection

Totals: 0

1800 Soil stabilization - acres

| | | | |
|---------|------------------|-------------------|----------------|
| | Dry W/O Mulch | Dry/with Mulch | Hydro Mulch |
| Totals: | 0.0 | 0.0 | 0.0 |

1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing

acres

Totals: 0.0

Roadside Brushing and Chipping

33-6-26.0A1-DBushing and Chipping 2.70 Mile

Roadside Brushing & Chipping

33-6-27.0 B Brushing and Chipping 0.02 Mile

Roadside Brushing and Chipping

33-6-27.0A1-A3

Brushing and Chipping 0.60 Mile

Roadside Brushing and Chipping

33-6-27.2A Brushing and Chipping 0.45 Mile

Roadside Brushing and Chipping

33-6-27.3 Brushing and Chipping 0.41 Mile

2200 Surface Treatment

tons

L.F.

Totals: No Quantities

2300 Engineering

stations

Totals: 0.00

2400 Minor Concrete

Totals: No Quantities

2500 Gabions

Totals: No Quantities

8000 Miscellaneous

Totals: No Quantities

Continuation of Construction Quantities

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

LUMP SUM SALE

| |
|-----------------------------------|
| Name of Bidder |
| Tract Number ORM07-TS-13-02 |
| Sale Name London Peak |
| Sale Notice (dated) 11/21/2012 |
| BLM District Medford |

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

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

Required bid deposited is \$ **14,100.00** and is enclosed in the form of ☐ cash ☐ money order ☐ bank draft ☐ cashier's check ☐ certified check ☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

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

BID SCHEDULE – LUMP SUM SALE

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

| BID SUBMITTED | | | | | ORAL BID MADE | |
|----------------------|------|------------------------------|------------|-------------|---------------|-------------|
| PRODUCT SPECIES | UNIT | ESTIMATED VOLUME OR QUANTITY | UNIT PRICE | TOTAL VALUE | UNIT PRICE | TOTAL VALUE |
| Douglas-fir | MBF | 1,196 | X | = | X | = |
| Total | | 1,196 | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| | | | X | = | X | = |
| TOTAL PURCHASE PRICE | | | | | | |

(Continued on reverse)

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at

by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

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

| | | |
|---|--|--|
| <input type="checkbox"/> | Signature, if firm is individually owned | Name of firm <i>(type or print)</i> |
| <input type="checkbox"/> | Signatures, if firm is a partnership or L.L.C. | Business address, include zip code <i>(type or print)</i> |
| | | |
| | | |
| <input type="checkbox"/> | Corporation organized under the state laws of | <i>(To be completed following oral bidding)</i> |
| Signature of Authorized Corporate Signing Officer | | I HEREBY confirm the above oral bid By <i>(signature)</i> |
| Title | | Date |
| Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior – BLM. Oral Auction – Submit to Sales Supervisor prior to closing of qualifying period for tract. | | Sealed Bid – Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) “Bid for Timber” (2) Vegetative Resource Other Than Timber (3) Time bids are to be opened (4) Legal description |

NOTICE

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

INSTRUCTIONS TO BIDDERS

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

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

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

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

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

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

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

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

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

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

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

(b) **Timber Scale Sales** – Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut

and removed prior to expiration of time for cutting and removal as specified in contract.*

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

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

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

10. **PERFORMANCE BOND** –

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

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

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

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

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

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

*Applies to Timber Only

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

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

17. **LOG EXPORT** – All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western

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

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