

****REVISED****
P R O S P E C T U S
DXP SCALED-SALE

GRANTS PASS RESOURCE AREA
JOSEPHINE MASTER UNIT

Medford Sale # ORM07-TS-19-20
June 27, 2019 (JCD)

#2. Taylor Hazard, Josephine County, O&C

BID DEPOSIT REQUIRED: **\$7,800.00**

All timber designated for cutting in SE ¼ NW ¼, SE ¼ SW ¼, E ½ SW ¼, S ½ SE ¼, NW ¼ SE ¼ Section 15, S ½ SW ¼, W ½ SE ¼ Sec. 20, S ½ NE ¼, N ½ NW ¼, SE ¼ NW ¼, N ½ SE ¼, SW ¼ NE ¼ Section 29, SE ¼ SW ¼ Section 30, W ½ NE ¼, SE ¼ NE ¼, E ½ NW ¼, E ½ SW ¼, N ½ SE ¼, SW ¼ SE ¼ Section 31, NW ¼ SW ¼ Section 32, T. 35 S., R. 7 W., Willamette Meridian. Timber to be removed is comprised of Merchantable Timber as defined below:

Approx. Number Merch. Trees	Est. Volume MBF 32' Log	Species	Est. Volume MBF 16' Log	Appr. Price Per MBF*	Est. Volume Times Appraised Price
4,736	1,743	Douglas-fir	2,196.0	\$31.20	\$68,515.20
318	188	Sugar Pine	236.0	\$17.90	\$4,224.40
345	182	Ponderosa Pine	225.0	\$18.10	\$4,072.50
161	14	Incense Cedar	19.0	\$37.80	\$718.20
5,560	2,127	TOTALS	2,676.0		\$77,530.30

*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.

Minimum Piece Size required to be removed will be a log 16 feet long, 12 inches at the small end and be at least 1/3 sound. All sawlogs removed from the sale under the minimum piece will be scaled for payment. (Minimum log, if shipped, will be 8 feet long, 5 inches at the small end and 1/3 sound.)

TIMBER AUCTION LOCATION – – The timber auction will be held at the Medford Inter-agency Office, located at 3040 Biddle Road, Medford, Oregon, at 9 a.m. on Thursday, June 27, 2019.

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 –All Species were cruised using the PCMTRE variable plot cruise method. 209 plots were cruised in a grid pattern over 124 acres using a 40 Basal Area Factor and a sampling frequency of 1 in 8. The average count tree per plot was 3.1 trees of which 84% were Douglas fir. Maps showing the location and description of these sample plots are available at the Grants Pass Interagency Office.

All of the 2676 M bd. ft sale volume is salvage material. With respect to merchantable trees of all conifer species: the average tree is 22.7 inches DBHOB; the average gross merchantable log contains 165 bd. ft.; the total gross volume is approximately 2773 M bd. ft; and 80% recovery is expected. (Average DF is 22.5 inches DBHOB; average gross merchantable log DF contains 156 bd. ft.)

LOG EXPORT AND SUBSTITUTION RESTRICTIONS - All timber sold to the Purchaser under the terms of the contract, except exempted species, is restricted from export 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 – Eighteen (18) units containing one hundred twenty-four (124) acres of road side hazard tree removal.

CUTTING TIME - Contract duration will be twelve (12) months for cutting and removal of timber.

ACCESS - Access to the sale area is available via a state and county public road system through the contract area and 17.63 miles of existing BLM roads.

ROAD MAINTENANCE - The Purchaser shall pay a road maintenance fee of \$0.90 (ninety cents) per thousand board feet log scale per mile for use of BLM road 35-7-27A-B and a rockwear fee of \$0.60 (sixty cents) per thousand board feet log scale per mile for the use of all other rocked roads. The total maintenance fee due shall be based upon volumes determined pursuant to Exhibit B of this contract and mileage of roads used as determined by the Authorized Officer.

ROAD CONSTRUCTION – The contract will require the Purchaser to renovate 845.86 stations of existing road, and construct/decommission 21.65 stations of temporary routes. 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 haul on natural surface and rocked 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 yoder or 40 foot tower capable of spanning four hundred sixty seven (467) 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 skid roads. Specialized logging equipment such as a feller buncher or harvester may also be used.

SLASH DISPOSAL - Slash disposal within the Commercial Thin harvest units will consist of lop and scatter, pile, cover, burn, and mop-up landing decks as described in SD-5 of the Special Provisions. Lop and scatter areas of high slash concentration within units. A post logging assessment shall be conducted to determine treatment needs in all units. The initial appraisal prescribed ninety-seven and one quarter (97.25) acres of lop and scatter and twenty-six and three quarters (26.75) acres of pile, cover, & burn landing piles.

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 Prescription (DxP) criteria as outlined in Exhibit F.
3. A ½ acre sample mark is required before falling operations begin to determine that the purchaser understands the intent of the Prescription in Exhibit F. Additionally a ½ acre sample mark is required in Unit 20-1 before falling operations can begin in Unit 20-1. These ½ acre sample marking efforts may be the same.
4. Delivered log lengths shall not exceed 41 feet.
5. The Purchaser is required to tally reserve trees in the harvest units listed on Exhibit A.

NARRATIVE DESCRIPTION OF HOW TO GET TO THE TIMBER SALE AREA – From Grants Pass, take Interstate 5 northbound. Take exit 61 to Merlin. At off ramp turn left onto Merlin Road, Merlin Road will become Galice Road, turn left onto Robertson Bridge Road. Go over Robertson Bridge and turn right at the stop sign onto Or-260 (Picket Creek Road), turn left onto West Pickett Creek Road. Units are accessible via BLM roads.

ENVIRONMENTAL ASSESSMENT - A categorical exclusion DOI-BLM-ORWA-M070-2019-0001-CX was prepared for this sale, it was determined that the proposed action is in accordance with the approved land use plan and no further environmental analysis is required. This document is available for inspection as background for this sale at the Medford District Office.

TAYLOR HAZARD TIMBER SALE

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

Sec. 41. TIMBER RESERVED FROM CUTTING - The following timber on the contract area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of Government.

- (A) AR-1 All timber on the Reserve Areas as shown on Exhibit A and all trees marked with a combination of orange paint, orange flagging, and/or posters which are on or mark the boundaries of the Reserve Areas.
- (B) IR-1 Approximately nine (9) Douglas-fir trees marked with a yellow paint in unit 31-4, as shown on Exhibit A.
- (C) IR-6 All green trees that need to be felled to facilitate logging in the Harvest Areas shown on Exhibit A shall remain onsite.
- (D) IR-8 All timber except trees that meet the selection criteria outlined in the Designation by Prescription Selection Criteria Guidelines (Exhibit F) in the sale units shown on Exhibit A.
- (E) IR-13 All green conifers in the Harvest Areas shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer.
- (F) IR-13 All hardwoods in the Harvest Areas shown on Exhibit A which do not present a safety hazard as determined by the Authorized Officer. Hardwoods felled for safety reasons shall be retained on site.
- (G) IR-14 All pre-existing dead and down logs in the Harvest Area shown on Exhibit A.

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Section 42

(A) LOGGING

- (1) L-1 Before beginning operations on the contract area for the first time or after a shutdown of seven (7) or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if he intends to cease operations for any period of seven (7) or more days.
- (2) L-2 Prior to the commencement of operations the Purchaser shall obtain from the Authorized Officer written approval of a written operations and logging plan commensurate with the terms and conditions of the contract, which shall include measures needed to ensure protection of the environment and watershed. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging shall be done in accordance with the plan.
- (3) L-4 All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (4) L-10 In Harvest Unit 31-4 shown on Exhibit A, all trees designated for cutting with yellow paint shall be directionally felled toward the stream and left on-site for coarse woody debris.
- (5) L-10 In the Harvest Area shown on Exhibit A, all trees designated for cutting shall be directionally felled away from streams, green tree retention areas, unit boundaries and resource buffers. Use of jacks, wedges, and/or tree pulling with cables or lines shall be employed when necessary to meet this requirement.
- (6) L-12 In the Harvest Area shown on Exhibit A, Yarding shall be done in accordance with the yarding requirements or limitations for the designated area listed below.

Designated Area	Yarding Requirements or Limitations
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<u>Ground Based Harvest & Yard Portion</u>	<p>Specialized/ Mechanized harvesting operations are optional. All harvest units may be manually felled.</p> <p>Specialized mechanized felling operations shall be limited to slopes of fifty (50) percent or less except on preexisting skids and short steeper pitches.</p> <p>Non specialized mechanized ground based equipment must operate on slopes generally less than thirty-five (35) percent slope except on preexisting skids and short steeper pitches.</p> <p>Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(7) of this contract.</p> <p>Trees shall be limbed prior to yarding.</p> <p>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.</p> <p>The harvest equipment shall walk on existing or created slash as directed by the Authorized Officer.</p> <p>Specialized mechanized yarding operations shall be limited to slopes of fifty (50) percent or less except on preexisting skids and short steeper pitches.</p> <p>Non specialized mechanized ground based yarding must operate on slopes generally less than thirty-five (35) percent slope except on preexisting skids and short steeper pitches.</p> <p>Ground based yarding operations are subject to seasonal operating restrictions as described in Section 42(A)(7) of this contract.</p> <p>Yarding tractor shall be equipped with an integral arch to suspend one end of the log.</p>
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	<p>Cull material skidded to the landing may be required to be redistributed back into the unit.</p> <p>Trees shall be limbed prior to yarding</p> <p>Prior to October 15th, block, rehabilitate and apply erosion control measures to skid trails and landings that are hydrologically connected to perennial streams in units.</p> <p>Existing skid roads shall be used when possible. Skid roads shall not exceed a width of twelve (12) feet on average per unit and new skid roads shall be placed at least one hundred fifty (150) feet apart where topography will allow, unless the Purchaser proposes an alternate logging plan that limits soil compaction in skid trails to less than fifteen (15) percent of the harvest area and is approved by the Authorized Officer.</p> <p>Landing size shall not exceed one-half (1/2) acre, shall be located along existing roads and/or cable-tractor swing routes within unit boundaries, and shall be approved by the Authorized Officer. Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.</p> <p>The use of blades while ground based yarding will be limited.</p> <p>If trenches, depressions, or excessive disturbance occurs, the Authorized Officer will suspend operations until a remedy is determined.</p>
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Designated Area	Yarding Requirements or Limitations
<u>Cable Yard Portion</u>	<p>Yarding will be done with a cable yarding system which will suspend one end of the log clear of the ground during inhaul on the yarding corridor. The cable yarding system shall be capable of yarding five hundred (500) feet slope distance.</p> <p>Full suspension is required over the perennial stream as shown on Exhibit A.</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 will be perpendicular to the contours and located outside of all buffers shown on Exhibit A.</p> <p>Prior to falling any timber in the unit, all tail/lift trees and/or intermediate support trees shall be pre-designated by the Purchaser and approved by the Authorized Officer.</p> <p>Yarding corridor widths shall be approximately 12 feet in width not exceed 15 feet in width.</p> <p>Existing cable corridors shall be used whenever possible.</p> <p>Yarding corridors shall be approximately one hundred fifty (150) feet apart, measured at the tailholds.</p> <p>Landing size shall not exceed one-quarter ($\frac{1}{4}$) acre, shall be located along existing roads within unit boundaries where possible, and shall be approved by the Authorized Officer.</p> <p>Design landings with adequate drainage so that they are not hydrologically connected to draws or the ditchline of roads.</p>

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	<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>Directional falling to lead and away from streams, unit boundaries, and resource buffers shown on Exhibit A will be required.</p> <p>Cull material yarded to the landing may be required to be redistributed back into the unit.</p> <p>Trees shall be limbed prior to yarding</p>
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- (7) L-14 No falling, yarding or loading is permitted in or through the Reserve Area as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
- (8) L-19 No mechanical ground based harvesting, ground based yarding, skid trail and landing rehabilitation, machine piling or non-emergency road maintenance shall be conducted in the sale area units between October 15 of one calendar year and May 15 of the following calendar year both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If soil moisture conditions are dry, as determined by the inability of a soil sample taken at four (4) to six (6) inches to maintain form when compressed and by the inability of soil moisture at the surface to be readily displaced, causing ribbons and ruts along equipment tracks, the Contracting Officer may approve a conditional waiver. If impacts to soil resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (9) L-19 No haul shall be conducted in the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive. Purchaser may request in writing, a conditional waiver of this restriction. If the Authorized Officer determines that hauling would not result in road damage or the transport of sediment to nearby stream channels based on soil moisture conditions or rain events, Contracting Officer may approve a conditional waiver for hauling. If soil moisture conditions or rain events are anticipated to cause impacts to roads or stream water quality resulting from said conditional waiver are not acceptable as determined by the Authorized Officer, the waiver will be revoked.
- (10) L-20 No operations for units 20-1, 29-2, 29-3, 29-4, and 29-5 as shown on Exhibit A shall be conducted between March 1 and June 30 or until two (2) weeks after the fledging period of the same calendar year, both days inclusive. This restriction may be extended until September 30 during the year of harvest if the operations would cause a nesting northern spotted owl to flush. This restriction will

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not apply if it can be shown from northern spotted owl protocol surveys conducted in accordance with accepted standards, as approved by the Contracting Officer, that northern spotted owl nesting and/or fledging activities are not occurring during the year and/or time of harvest.

- (11) L-24 Before cutting and removing any trees necessary to facilitate logging in the Harvest Area shown on Exhibit A, the Purchaser shall identify the location of the skid roads, cable yarding roads, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the Logging Plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:
- (a) All skid roads and/or cable yarding roads upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this 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 Contracting Officer, the width of each skid road, and/or cable yarding road shall be limited to twelve (12) feet.
 - (b) The Purchaser may immediately cut and remove additional timber to clear skid roads and cable yarding roads; and provide tailhold, tieback, guyline, lift and intermediate support trees; and clear danger trees when the trees have been marked with pink paint above and below stump height by the Authorized Officer and thereby approved for cutting and removal by the Authorized Officer. The volume of the timber to be sold will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures. No timber may be cut or removed under terms of this provision unless sufficient installment payments have been made in accordance with Section 3.(b). of the contract or sufficient bonding has been provided in accordance with Section 3.(e). of the contract.
 - (c) The Purchaser agrees that sale of this additional timber shall be accomplished by a unilateral modification of the contract executed by the Contracting Officer and that such timber shall be sold at the unit prices shown in Exhibit B of this contract unless: the value of the timber must be reappraised subject to the terms for contract extension set forth in Section 9 of the contract; or, the Authorized Officer determines that the species of trees are not listed in Exhibit B of this contract shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.

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- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
 - (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional approved timber at the unit prices shown in Exhibit B of the contract or in accordance with Section 8 or Section 9 of the contract as determined by the Authorized Officer in accordance with this provision. The Contracting Officer may issue a written order to the Purchaser to suspend, delay, or interrupt any or all contract work for the period of time deemed necessary and appropriate for the Government to safely measure and mark additional timber.
 - (f) The Government may reserve trees previously designated for cutting and removal by blacking out blue paint, and/or applying orange paint as replacements for additional trees cut and removed for skid roads and/or cable yarding roads when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescriptions. This may include the replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.
- (12) L-33 Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties in the Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

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

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

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

- (1) R-1: The Purchaser shall construct, improve, renovate, and/or decommission all roads, structures, and temporary routes listed for use under this contract in accordance with the plans and specifications shown on Exhibits C and D, which is attached hereto and made a part hereof.
- (2) R-1a: Any required renovation of roads and structures shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.
- (3) R-1c: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than 5 days after such notice, and shall be completed within 1 year after such notice.
- (4) R-2: The Purchaser is authorized to use the roads listed below and shown on Exhibits C and D for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(B)(6). Any road listed on Exhibit C

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and D and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length in Miles	Road Control	Surface Type	Maintenance Responsibility
35-7-20.0	0.86	BLM	GRR	Purchaser
35-7-22.1	0.54	BLM	NAT	Purchaser
35-7-27.0(A-B)	1.20	BLM	BST	BLM
35-7-27.0(C-F)	4.66	BLM	ASC ^{1/}	Purchaser
35-7-27.3(A-B)	3.56	BLM	GRR/NAT	Purchaser
35-7-28.0(A-C)	1.60	BLM	ASC	Purchaser
35-7-29.0(A)	0.95	BLM	ASC ^{1/}	Purchaser
35-7-29.1	0.25	BLM	PRR	Purchaser
35-7-29.2	0.09	BLM	NAT	Purchaser
35-7-33.1	3.11	BLM	AGG	Purchaser
35-7-15.2	0.40	BLM	NAT	Purchaser
Spur 35-7-27	0.21	BLM	NAT	Purchaser
Spur 35-7-29	0.20	BLM	NAT	Purchaser
Total	17.63			

^{1/} Portions of ASC road were chipsealed in the past. Chipseal is highly damaged. All fees and usage of the road are reflective of the ASC surface.

- (6) R-2d: The Purchaser shall pay a road maintenance fee of **\$0.90 (ninety cents) per thousand board feet log scale per mile** for use of BLM road 35-7-27A-B and a rockwear fee of **\$0.60 (sixty cents) per thousand board feet log scale per mile** for the use of all other rocked roads. The total maintenance fee due shall be based upon volumes determined pursuant to Exhibit B 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 Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance (and rockwear) payment due, such excess shall be returned

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to the Purchaser after such determination is made.

- (7) R-2e: The Contracting Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance and rockwear fees for the particular surface type of the roads involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Section 42(B)(5). If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (8) R-2f: Except for road maintenance in accordance with Section 42(B)(5), the Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (9) R-3c: The Purchaser agrees that if they elect to use any other private road(s), 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.
- (10) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

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

Details shall include:

- A. Axle weights when fully loaded.
- B. Axle spacing.
- C. Transverse wheel spacing.
- D. Tire size.

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- E. Outside width of vehicle.
- F. Operating speed.
- G. Frequency of use.
- H. Special features (e.g., running tracks, overhang loads, etc.).

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use of overweight or over-dimension vehicles or equipment: (1) without written approval; (2) in violation of the conditions of a written approval; or, (3) in a negligent manner.

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

- (11) R-5: Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures, or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

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

(C) ENVIRONMENTAL PROTECTION

- (1) 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 weedseeds 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.

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- (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 requirements set forth in Section 26 of this contract, the Purchaser shall implement the following noxious weed control measures:

Upon decommissioning and prior to fall rains, the Purchaser shall scarify and contour landings and temporary spurs to provide for adequate drainage, then stabilize and revegetate all bare soil with certified weed free straw mulch and a native seed mixture approved by the Authorized Officer. Landings on roads and rocky areas that lack soil for seed germination need not be scarified, seeded or mulched, as determined by the Authorized Officer. The BLM may provide the seed mixture and straw mulch if the purchaser is unable to locate and buy the approved materials from a commercial source. The Purchaser shall reimburse the government for the cost of seed and straw, if provided by the government. The Purchaser shall furnish the specific seed mixture prescribed by the Authorized Officer, which will include up to 3 grasses and 2 forbs from the following list, but may include substitutions approved by the Authorized Officer:

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

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

Grass seed	20 to 25 lbs/acre (cumulative, all species)
Forb seed	0.5 to 2 lbs/acre (cumulative, all species)
Straw mulch	1000 lbs/acre

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

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

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

Furnished seed shall meet the minimum requirements for either Yellow Tag Source Identified Seed or Blue Tag Certified Class Seed, as defined by the Association of Official Seed Certifying Agencies. Seed source shall be approved by the Authorized Officer and shall be from the EPA Level III Ecoregion in which the project occurs. For each lot of seed, the Purchaser shall furnish the Authorized Officer a Seed Test result from a certified seed testing lab (e.g., Oregon State University), which shall include: test date; lot number; seed source; and results of test for purity, germination, and weed content. All seed lots must have been tested within the previous 12 months to be accepted. Seed that has become wet, moldy, or otherwise damaged shall not be accepted. Seed must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work. If the Purchaser furnishes straw mulch from any source other than the BLM, the material must be from native grass or other approved sterile grain crops that are certified weed free and free of mold or other objectionable materials. Straw mulch shall be in an air-dry condition and suitable for spreading in a uniform manner. Straw mulch must be available to the Authorized Officer for inspection at least 5 days in advance of commencing revegetation work.

- (3) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser would be required to be in compliance with OAR 629-605-0130 of the Forest Practices Act. Notification, removal, transport, and disposal of oil, hazardous substances, and hazardous wastes would be accomplished in accordance with OAR 340-142 (OARD, 2018), and the operator will have a Spill Prevention, Control and Countermeasure Plan (SPCC) in place. the Purchaser shall prepare a Spill Prevention, Control, and Countermeasure Plan for all hazardous substances to be used in the contract area, as directed by the Authorized Officer. Such plan shall include identification of Purchaser's representatives responsible for supervising initial containment action for releases and subsequent cleanup. Such plans must comply with the State of Oregon DEQ OAR 340-142, Oil and Hazardous Materials Emergency Response Requirements.
- (4) 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

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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. Equipment containing reportable quantities of toxic fluids shall be stored outside of the Riparian Reserve.

- (5) 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 streams, wet areas, dry draws and swales. If these landing locations cannot be avoided, ensure that properly installed sediment control measures are placed and maintained, as needed, to keep eroded material onsite.
- (6) E-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall not resume hauling on natural surface or rocked roads with insufficient rock depth for 48 hours following any storm event that results in ½ inch or more precipitation within a 24 hour period and until road surface is sufficiently dry to prevent sediment transport to nearby streams.
- (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 landings, skid tails, cable-tractor swing routes or temp routes that have the potential to release eroded fines into a stream or wet area, directly or via draws or ditchlines. Any project-related activity would be suspended if conditions develop that cause a potential for sediment laden runoff to enter a wetland, floodplain or waters of the state. Operations can resume when sediment control devices are in place and conditions allow turbidity standards to be met.
- (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 temporary routes, landings, hydrologically connected corridors, skid trails and other areas of exposed soils by properly installing and/or using water bars, berms, sediment basins, gravel pads, hay bales, small dense woody debris, seeding and/or mulching, to reduce sediment runoff and divert runoff water away from stream channels, headwalls, slide areas, high landslide hazard locations or steep erodible fill slopes as directed by the Authorized Officer. Water bar spacing on skid trails shall be constructed using the guidelines below:

Gradient (Percent)	Water Bar Spacing* By Erosion Class		
	High (Feet)	Moderate (Feet)	Low (Feet)

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2-5%	200	300	400
6-10%	150	200	300
11-15%	100	150	200
16-20%	75	100	150
21-35%	50	75	100
36+%	50	50	50

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

† The erosion classes include the following rock types:

High: Granite, sandstone, andesite porphyry, glacial or alluvial deposits, soft matrix conglomerate, volcanic ash, and pyroclastics

Moderate: Basalt, andesite, quartzite, hard matrix conglomerate, and rhyolite

Low: Metasediments, metavolcanics, and hard shale

- (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 ground based skid trails utilized within one hundred ninety (190) feet of streams, all temporary routes, cable-tractor swing routes, and all landings outside of the road prism by one of the following methods:
- (a) If the Authorized Officer deems ripping will not cause unacceptable damage to the root systems of residual trees the Purchaser shall discontinuously subsoil with winged ripper teeth, simultaneously water bar, seed, mulch, and barricade.
1. Use a minimum 200 flywheel horsepower tractor with mounted rippers having shanks and teeth consistent with drawings and specifications shown on Exhibit R of this contract, which, is attached hereto and made a part hereof.
 2. Rip to a depth of twelve (12) inches, and no further than thirty six (36) inches apart.
 3. Ripping will occur prior to the end of the operating season.
 4. Any step landings shall be re-contoured following use, prior to the end of the operating season.
- (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.

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- (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-1 In addition to the requirement set forth in Sec. 26 of this contract, the Purchaser shall, upon completion of skidding, pull vegetation over and block skid trails if unauthorized off-highway vehicles (OHV) are identified utilizing the skid trails.
- (12) 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 W which is attached hereto and made a part hereof.
- (13) E-3 The Purchaser shall immediately discontinue specified construction or harvesting operations upon written notice from the Contracting Officer that:
 - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
 - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 - Special Status Species Management - have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
 - (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
 - (e) when, in order to comply with a court order, which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
 - (f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - 1. species have been discovered which were identified for protection through protection buffer standards and guidelines established in the

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ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;

2. when, in order to protect species which were identified for protection through protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

Those operations necessary for a safe removal of personnel and equipment from the contract area and those directed by the Contracting Officer, which are required in order to leave the contract area in an acceptable condition will be permitted. Discontinued operations may be resumed upon receipt of written instructions and authorization by the Contracting Officer.

During any period of suspension, the Purchaser may withdraw performance and payment bond coverage aside from that deemed necessary by the Authorized Officer to secure cut and/or removed timber for which the Bureau of Land Management has not received payment, and/or unfulfilled contract requirements associated with harvest operations that have already occurred and associated post-harvest requirements.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the First Installment held on deposit may be temporarily reduced upon the written request of the Purchaser. For the period of suspension extending beyond 30 days, the First Installment on deposit may be reduced to five (5) percent of the First Installment amount listed in Section 3.b. of the contract. Any First Installment amount temporarily reduced may be refunded or transferred to another BLM contract at the request of the Purchaser. However, if the Purchaser has outstanding debt owing the United States, the Contracting Officer must first apply the amount of First Installment that could be refunded to the debt owed in accordance with the Debt Collection Improvement Act, as amended (31 USC 3710, et seq.). Upon Purchaser's receipt of a bill for collection and written notice from the Contracting Officer lifting the suspension, the Purchaser shall restore the First Installment to the full amount shown in Section 3.b. of the contract within 15 days after the bill for collection is issued, subject to Section 3.j. of the contract. The Purchaser shall not resume contract operations until the First Installment amount is fully restored.

In the event of a suspension period or a combination of suspension periods that exceed a total of 30 days, the unamortized Out-of-Pocket Expenses for road or other construction required pursuant to Exhibit C of the contract shall be refunded or transferred to another BLM contract at the request of the Purchaser. Upon written notice from the Contracting Officer lifting the suspension, the Purchaser shall reimburse the Government the amounts refunded or transferred. The Purchaser may

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choose to pay this reimbursement at once or in installments payable at the same time as payments are due for the timber under the contract and in amounts approximately equal to the expenses associated with the timber for which payment is due.

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

The Contracting Officer may determine that it is necessary to terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

In the event cutting and removal rights are terminated under this subsection, the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the contract area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the contract area.

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraphs, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act

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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.

- (14) E-6 In units 20-1, 29-2, 29-3, 29-4, and 29-5 no operations shall be conducted between March 1 and June 30 or until two (2) weeks after the fledging period of the same calendar year, both days inclusive. This restriction may be extended until September 30 during the year of harvest if the operations would cause a nesting northern spotted owl to flush.

(a) This is a seasonal restriction to protect northern spotted owls. The Purchaser may, at their own expense and risk, conduct surveys in order to potentially waive or modify this restriction.

(b) If the Purchaser elects to conduct surveys, the Purchaser must notify the Authorized Officer by February 15 of any calendar year that the Purchaser desires to conduct such surveys. Surveys must be completed to strict protocols and procedures that will be provided by the Authorized Officer. Survey plans and results must be approved by the Authorized Officer prior to issuance of any modification or reduction of the restrictions. If it is determined owls are not nesting or that no young have been produced, the Authorized Officer may lift the seasonal restriction on such operations or depending upon the results, surveys may result in the Contracting Officer invoking Section 42(A)(10)(L-20) including suspension of operations or increasing restrictions for the calendar year.

(D) MISCELLANEOUS PROVISIONS

- (1) M-2 The Government, at its option, may administratively check scale any portion of the timber removed from the contract area, and if necessary, conduct check scaling of independent scalers contracted to BLM for administrative check scaling purposes. The Purchaser hereby agrees to make such contract timber available for such scaling at a location or locations to be approved in writing by the Authorized Officer. At the approved location or locations, the Purchaser shall provide an area for logs to be safely rolled out for scaling, to unload logs from trucks, place logs in a manner so that both ends and three faces of each log are visible for scaling, and to reload or remove logs after scaling has been completed. In the event that BLM elects to administratively check scale and if such check scaling causes a delay in log transportation time, an adjustment will be made to the purchase price as follows: If the entire sale is check scaled, the purchase price of this contract shall be reduced by two thousand seven dollars (\$2,007.00). In the event that only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of two thousand seven dollars (\$2,007.00) which is equal to the percentage of

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timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be determined by the Government. Any reduction in purchase price under the terms of this provision shall be full compensation to the Purchaser for any expense or loss incurred as a result of such scaling. Scaling shall be conducted in accordance with the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale, by BLM scalers, and/or independent scalers contracted to BLM. A copy of the scale report will be made available to the Purchaser upon request.

(E) FIRE PREVENTION

- (1) F-1 Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall, prior to the operation of power driven equipment in construction or logging operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
- (2) F-1a Fire Prevention and Control. Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:
 - (a) At least three (3) days prior to the operation of power-driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer and the State of Oregon Department of Forestry.
 - (b) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during closed fire season or periods of fire danger:
 1. F-2a Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All fire fighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be

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shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire.

2. F-2b At each landing or such other place as the Authorized Officer shall designate during periods of operation one (1) tank truck of three hundred (300) gallons or more capacity with a minimum of five hundred (500) feet of 1½ inch hose (must be adequate length to reach 200 feet beyond active work sites), six (6) 1½ inch wyes, six (6) 1½ inch to 1 inch reducers, three (3) 1½ inch nozzles and three (3) 1 inch nozzles. One (1) three hundred (300) gallon fire engine may be substituted for each required 300 gallon tank truck, provided that the total capability to pump and deliver water remains unchanged. Each fire engine / tank truck shall be equipped with a pump capable of delivering a minimum of forty (40) gallons per minute (gpm) water flow at one hundred fifty (150) pounds per square inch (psi) engine pressure through fifty (50) feet of 1½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters. At the close of each working day, all bulldozers and fire/tank trucks shall be filled with fuel and made ready for immediate use. All fire/tank trucks shall be filled with water and made available for immediate use.
3. F-2c Serviceable cell phone or radio equipment able to provide prompt and reliable communication between the contract area, Medford BLM District Office, and Oregon Department of Forestry. Such communication shall be available during periods of operation including the time watchman service is required.
4. F-2d A pair of headlights capable of being quickly attached to each bulldozer used on the contract area. The headlights shall be adequate to provide illumination sufficient to allow use of the bulldozers for fire fighting and construction of fire lines at night.
5. F-2f A headlamp for each employee in the woods crew adequate to provide sufficient illumination for night firefighting. A headlight shall be of the type that can be fastened to the head so as to allow independent use of the hands. At least one extra set of batteries shall be provided for each such headlight.

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6. F-2f Two (2) back-pack pumps at each landing and one (1) at each tail block, all to be kept full of water and in good operating condition.
 7. F-2g A chemical fire extinguisher of at least eight (8) ounces minimum capacity of a type approved by the Authorized Officer and a size 0 or larger shovel shall be carried during the closed fire season or periods of fire danger by each falling crew and each buckner using a power saw on the contract area. Such fire extinguisher shall be filled and in effective operating condition and shall at all times be immediately available to the operator when the saw is being fueled or the motor of the saw is running. Any fueling of a power saw shall be done in an area which has first been cleared of all flammable material. Power saws shall be moved at least twenty (20) feet from the place of fueling before the engine is started. Each power saw shall be equipped with an exhaust system and a spark arresting device which are of types approved by the Authorized Officer.
- (c) 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.
- (3) F-9 During Oregon Department of Forestry regulated use closure, no smoking shall be permitted outside of closed vehicles.

(F) SLASH DISPOSAL

- (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 measures required by this contract:
 - (a) SD-1a LOP AND SCATTER Lop and scatter all slash in the harvest unit as shown on Exhibit S. All top and side branches must be free of the central stem so that such stem is reduced to the extent that it is within eighteen (18) inches of the ground at all points. Slash includes all woody material (brush, limbs, tops, unmerchantable stems, or chunks) severed, uprooted, or broken from live plants as a result of Purchaser's operations under the terms of this

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contract. Lop and scatter shall be completed in accordance with Exhibit S as directed by the Authorized Officer.

1. All slash shall be arranged in a discontinuous pattern across the forest floor.
2. All slash shall be loped to no more than eight (8) feet in length.

- (b) SD-1f LANDINGS Within twenty (20) feet of the edge of each landing pile, all tops, broken pieces, limbs and debris more than one (1) inch in diameter at the large end and longer than two (2) feet in length shall be piled within fourteen (14) days of completion of hauling logs from that landing. Landing piles shall be kept free of dirt and located off of the driving surface of roads and at least fifteen feet (15) from any Reserve Tree and/or as directed by the Authorized Officer.

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

1. The BLM will prepare a fire burn plan. The purchaser shall obtain smoke clearance prior to ignition.
2. Landing piles will be burned in the fall to spring season after one (1) or more inches of precipitation have occurred.
3. Landing piles will be burned within twenty four (24) months of harvest completion.

- (c) SD-1g ROADSIDE SLASHING In the units shown on Exhibit A, all non-merchantable burnt trees shall be completely removed at least twenty (20) feet from the edge of the road to reduce the safety and fuels hazard. Slash shall not be piled or windrowed. Slash shall be scattered over the site so that the resulting slash is no more than 18 inches in depth, measured from mineral soil.

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- (2) SD-2 Notwithstanding the provisions of Sec. 15 of this contract, the Government shall assume all obligations for disposal or reduction of fire hazards created by Purchaser's operations on Government lands, except for burning and mop up assistance as required herein, and measures required in Sections 42(F)(1)(SD-1) and 42(F)(3)(SD-4). In accordance with written instruction to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer or his designated representative, assist in preparing units for burning, mop-up, and patrol by furnishing, at his own expense, the services of personnel and equipment on each unit as shown below.

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

(a) For Igniting and Burning Landing Piles

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

(b) For Mop-up Landing Piles

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

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

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

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

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

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

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

TAYLOR HAZARD
SPECIAL PROVISIONS

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

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

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

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

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

- (3) SD-5 The Purchaser shall perform logging residue reduction and site preparation work on approximately one hundred twenty four (124) acres of harvest area located in Harvest Units as shown on Exhibit A.
 - (a) The required work shall consist of any treatment or combination of treatments listed in the table below, as determined by the Authorized Officer

TAYLOR HAZARD
SPECIAL PROVISIONS

and specified in writing by the Contracting Officer. The number of acres of each treatment shall be determined by the Authorized Officer.

Treatment	Cost/Acre
Lop and Scatter	\$42.00
Machine Pile Landing Decks (hr)	\$100.00
Cover/ Burn/ Mop-up Landing Decks	\$56.00

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

Appraised Treatment	Acres	Cost/Acre	Total Cost Per Treatment
Lop and Scatter	97.25	\$42.00	\$4,084.50
Machine Pile Landing Decks (hr)	51.5	\$100.00	\$5,150.00
Cover/ Burn/ Mop-up Decks	26.75	\$56.00	\$1,498.00
Total Appraised Cost			\$10,732.50

- (c) The Total Purchase Price set forth in Section 2 shall be adjusted in a unilateral modification executed by the Contracting Officer by the amount that the total cost of the site preparation treatments designated pursuant to Section 42(F)(3)(SD-5)(a) differs from ten thousand seven hundred thirty two dollars and 50/100 (\$10,732.50), as calculated by using the estimated acres determined by the Authorized Officer and the per acre costs listed in Section 42(F)(3)(SD-5)(a).
- (d) Lop and Scatter shall be done in accordance with Section 42(F)(1)(a)(SD-1a), Machine Pile Cover Landing Decks shall be done in accordance with Section 42(F)(1)(b)(SD-1f), Burn and Mop-up Landing Piles shall be in accordance with 42(F)(2)(SD-2)(a&b).

(G) CONTRIBUTIONS

TAYLOR HAZARD
SPECIAL PROVISIONS

C-1 The Purchaser shall perform Cover/ Burn/ Mop-up Landing Decks in accordance with 42(F)(2)(SD-2)(a&b). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of one thousand four hundred ninety eight and 00/100 (\$1,498.00), and upon making such contribution, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this contribution prior to the date of execution of this contract. If the total contribution does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to the commencement of operations. If the total contribution exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments.

(H) 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 ($8\frac{3}{4}$) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three quarters ($8\frac{3}{4}$) inches in thickness or less; (6) shakes and shingles.

Substitution will be determined under the definition found in 43 CFR 5400.0-5(n).

The Purchaser is required to maintain and upon request to furnish the following information:

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

TAYLOR HAZARD
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- (d) Volume of Federal timber purchased in the past twelve (12) months from the date of last export sale.
- (e) Volume of timber exported in succeeding twelve (12) months from date of last export sale.
- (f) Volume of Federal timber purchased in succeeding twelve (12) months from date of last export sale.

In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a Form 5460-16 (Certificate as to Nonsubstitution and the Domestic Processing of Timber). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.

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

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

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

TAYLOR HAZARD
SPECIAL PROVISIONS

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

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

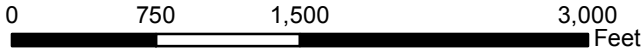
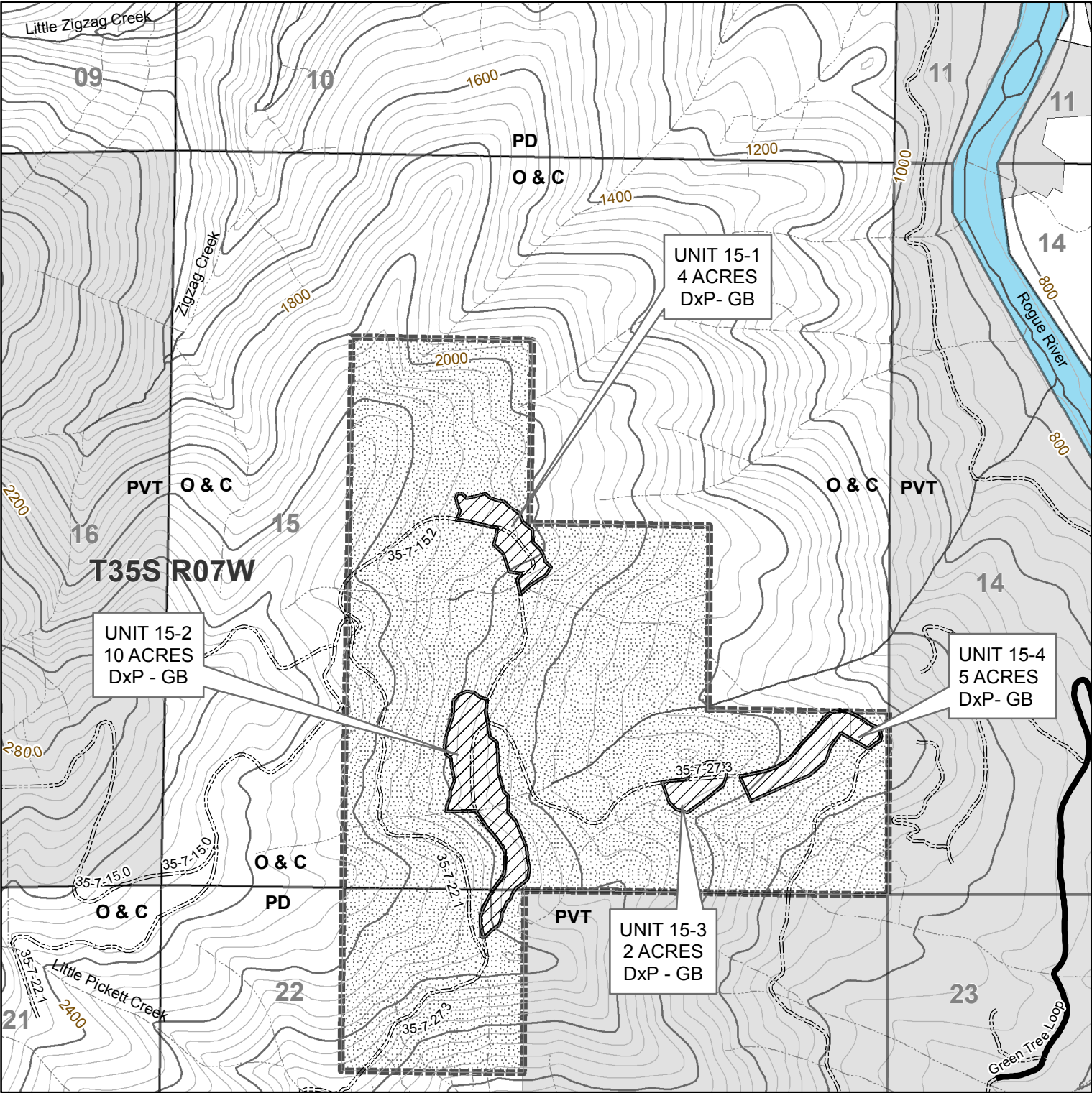
In the event of the Purchaser's noncompliance with this subsection of the contract, the Authorized Officer may take appropriate action as set forth in Section 10 of this contract. In addition, the Purchaser may be declared ineligible to receive future awards of Government timber for a period of one year.

	Unrestricted Period
	Restricted To Dry Condition
	Restricted To Dry Condition Waiver Required
	NSO Restricted Period (May be waived if NSO protocol surveys determine owls are not nesting)
	NSO Restricted Period (May be extended if owls are nesting)

** 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]



1 inch = 1,000 feet

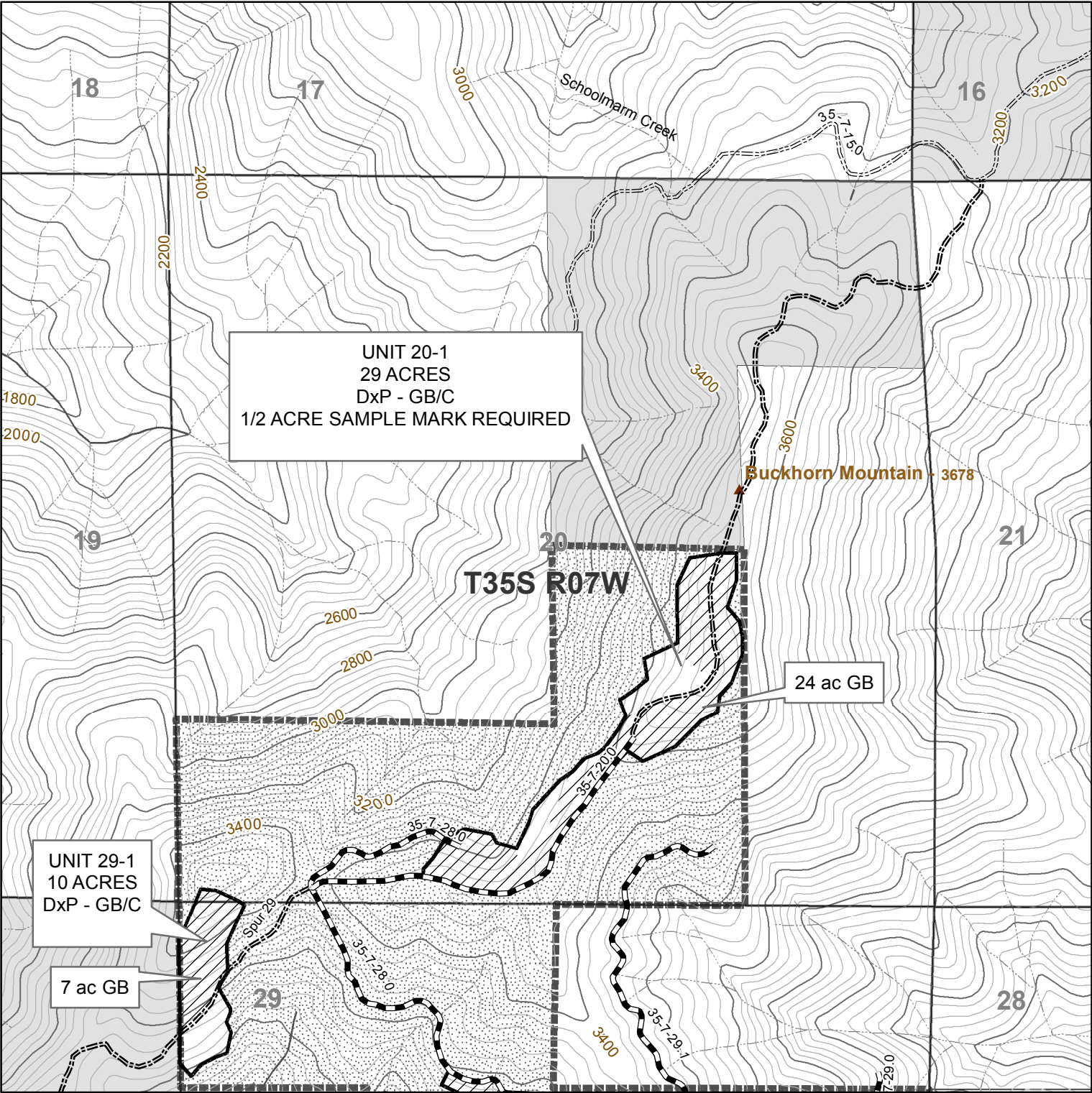


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Bureau of Land Management
Medford District Office
3040 Biddle Road
Medford, OR 97504
(541) 618-2200



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40' CONTOUR INTERVAL
Map created: 04/17/2019 JCD



0 750 1,500 3,000 Feet
1 inch = 1,000 feet

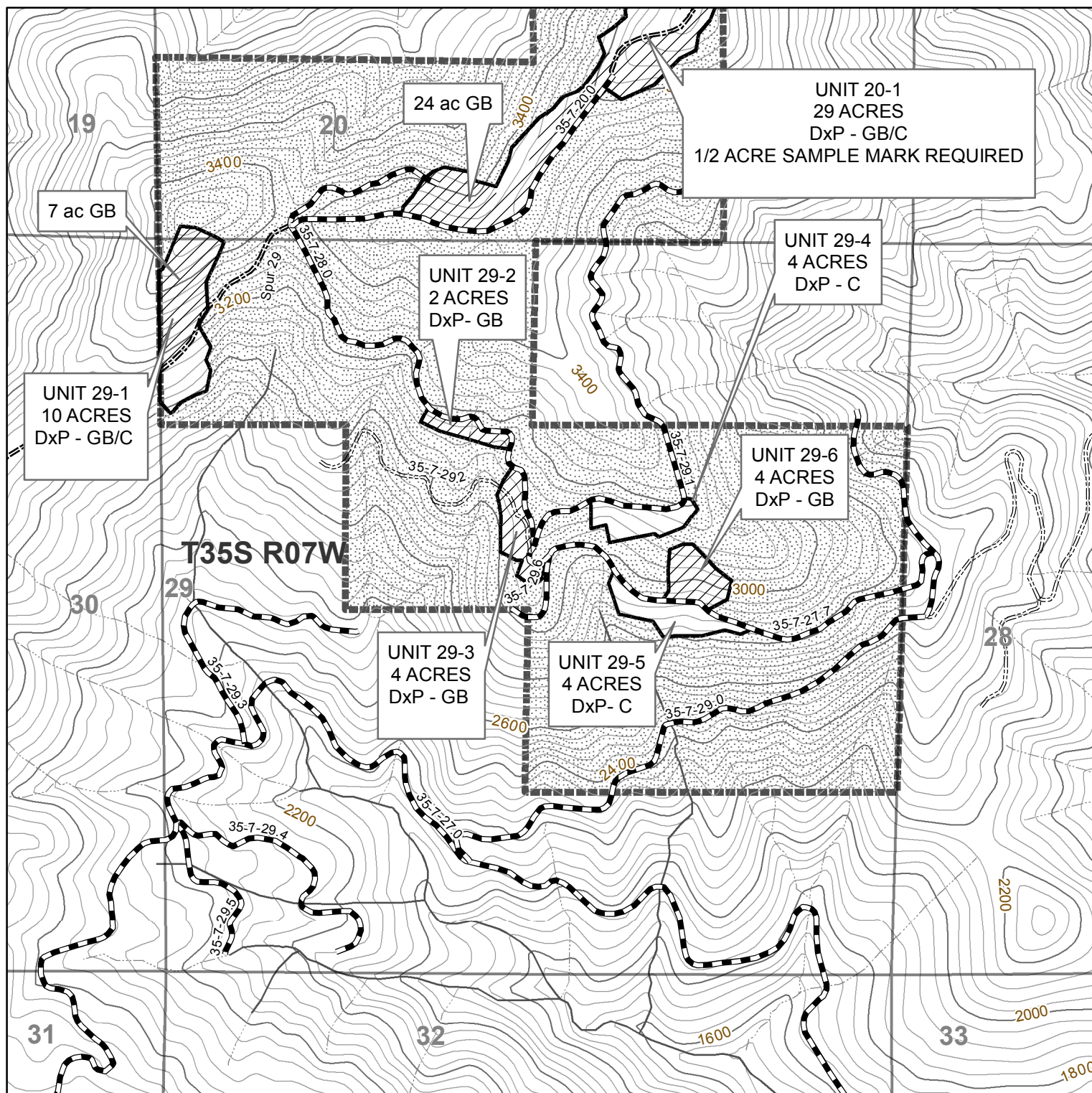


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0 750 1,500 3,000 Feet

1 inch = 1,000 feet

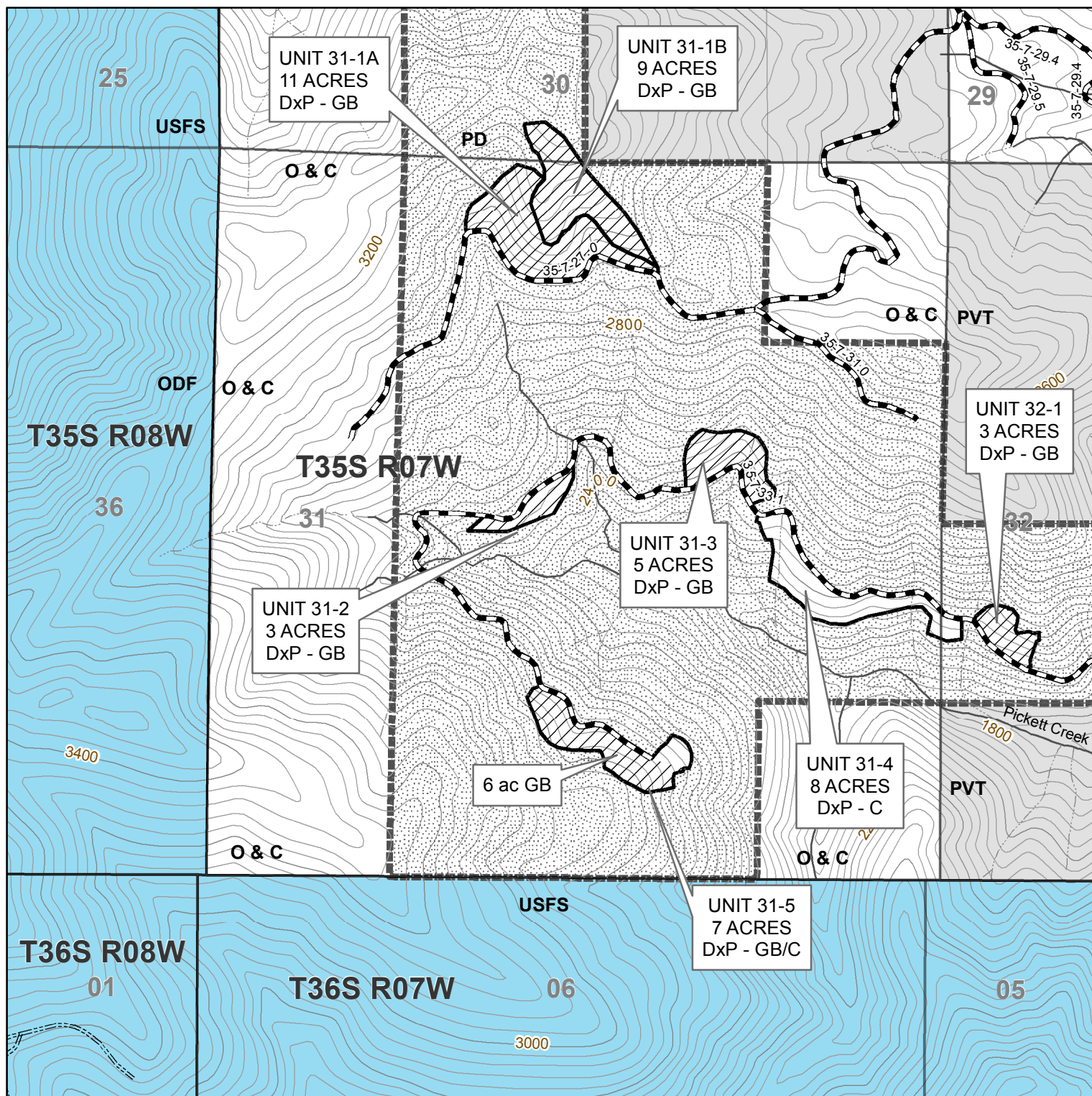


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40' CONTOUR INTERVAL
Map created: 04/17/2019 JCD





0 750 1,500 3,000 Feet

1 inch = 1,000 feet



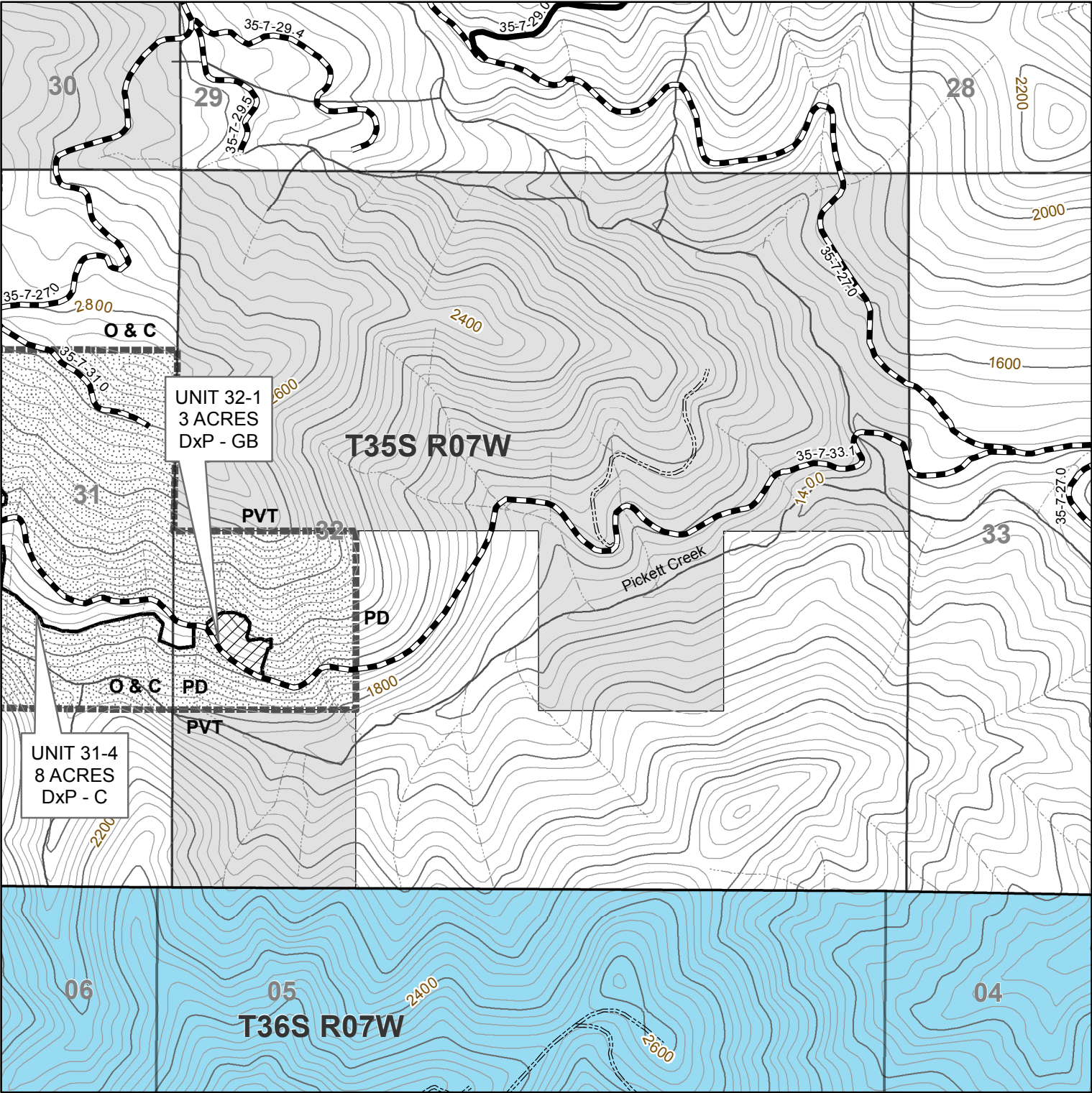
40' CONTOUR INTERVAL

Map created: 04/17/2019 JCD

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0 750 1,500 3,000 Feet
1 inch = 1,000 feet



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40' CONTOUR INTERVAL
Map created: 04/17/2019 JCD





Legend


Taylor Hazard Units


-  Cable Yard



 Ground Based Yard


 Contract Area Boundary


 Reserve Area



 Rocked Road


 Natural Surface Road

 County route (paved)
-  Perennial Stream




 Intermittent Stream

 Index 200-ft contour




 Intermediate 40-ft contour
-  Township and Range

 Sections

Ownership

-  Bureau of Land Management
-  Other Government
-  Private/Industry

SUMMARY

DxP- GB	DESIGNATION BY PRESCRIPTION, GROUND BASED	62 ACRES
DxP- GB/C	DESIGNATION BY PRESCRIPTION, GROUND BASED AND CABLE YARD	46 ACRES
DxP- CABLE	DESIGNATION BY PRESCRIPTION, CABLE YARD	16 ACRES
	TOTAL TIMBER SALE UNIT AREA	124 ACRES
	RESERVE AREA	1,084 ACRES
	TOTAL CONTRACT AREA	1,208 ACRES

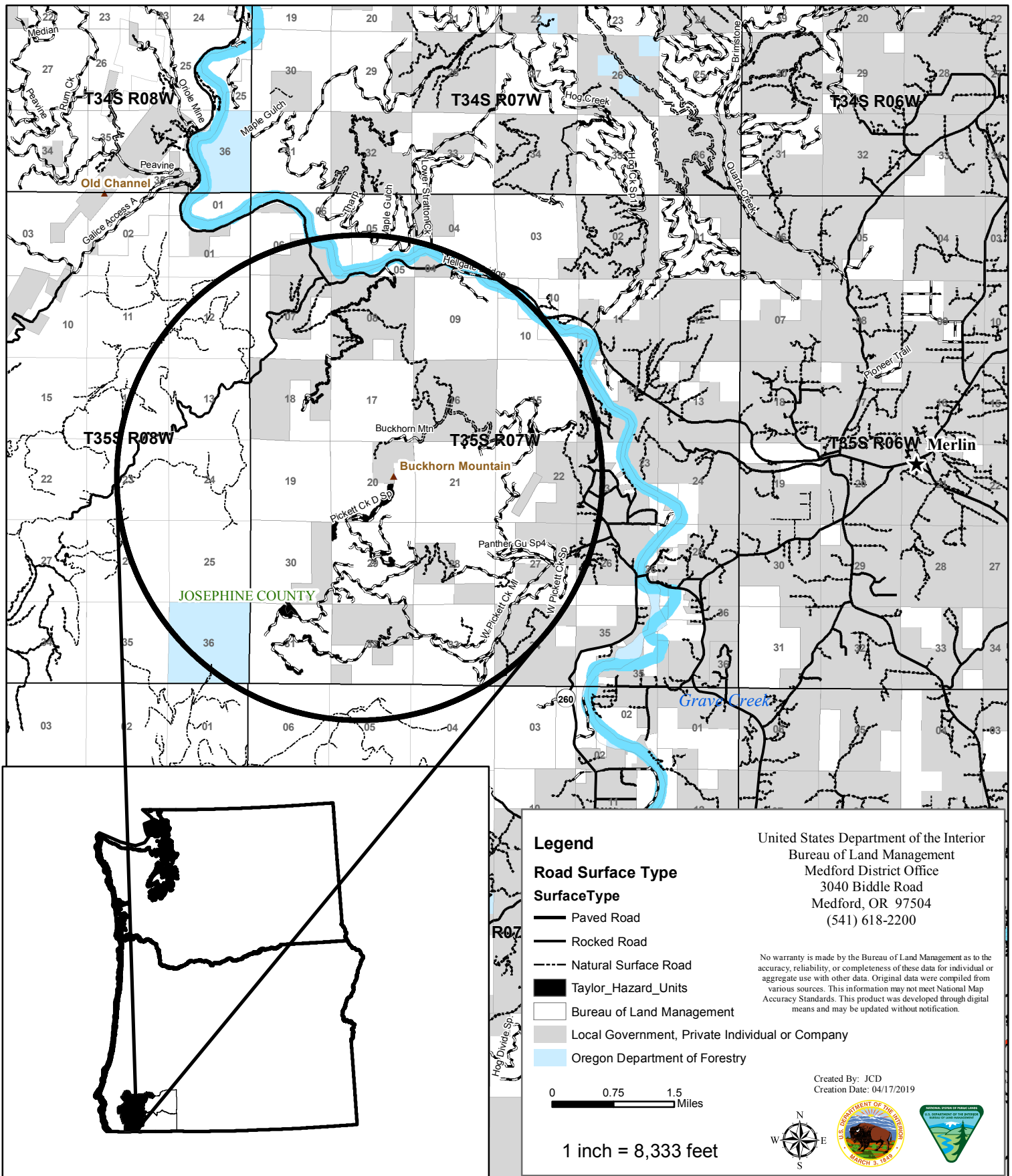
ALL ACRES COMPUTED BY GPS TRAVERSE
BOUNDARIES OF HARVEST UNITS ARE POSTED AND PAINTED IN ORANGE

UNIT	ACRES	PRESCRIPTION-PAINT COLOR-LOGGING SYSTEM
15-1	4	DxP-GB
15-2	10	DxP-GB
15-3	2	DxP-GB
15-4	5	DxP-GB
20-1	29	DxP-GB/C
29-1	10	DxP-GB/C
29-2	2	DxP-GB
29-3	4	DxP-GB
29-4	2	DxP-Cable
29-5	4	DxP-Cable
29-6	4	DxP-GB
31-1A	4	DxP-GB
31-1B	4	DxP-GB
31-2	11	DxP-GB
31-3	9	DxP-GB
31-4	3	DxP-Cable
31-5	5	DxP-GB/C
32-1	8	DxP-GB
TOTAL	124	

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

DxP = DESIGNATION BY PRESCRIPTION
GB = GROUND BASED YARD
C = CABLE YARD
GB/C = GROUND BASED AND CABLE YARD

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT (BLM)

Contract No.: ORM07-TS19-20
Sale Name: Taylor Hazard
Issuing Office: Medford District

EXHIBIT B
SCALE SALE

PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

I. **Total Actual Purchase Price** - In accordance with Section 3.(d). of the contract, the Purchaser agrees to pay the Government for the timber sold under the contract in accordance with the following schedule and measurement requirements. Timber sold is comprised of Merchantable Timber, Merchantable Timber Remaining, and Other Timber as defined below. In the event an Extension of Time is approved, the prices per measurement unit are subject to readjustment (refer to Section 9 of the contract).

Schedule of Species, Measurement Units, and Prices		
Species	Measurement Unit	Price Per Measurement Unit
Douglas-fir	MBF	\$31.20
Sugar Pine	MBF	\$17.90
Ponderosa Pine	MBF	\$18.10
Incense-cedar	MBF	\$37.80

II. **Merchantable Timber** - All timber which can be cut into logs, which equal or exceed the following specifications, shall be considered merchantable timber. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

Schedule of Minimum Material Specifications			
Species and Products	Length	Diameter (inside bark at small end)	Net Scale
All Species	16 feet	12 inches	33 1/3% of gross volume of any log segment.

III. **Merchantable Timber Remaining - Measurement Requirements** - The remaining volume of any merchantable sold timber on the contract area shall be determined as provided in Section 3.(e). of the contract. Purchaser shall pay for same in accordance with Sec. 3 of the contract at the unit prices shown in Section I of this Exhibit.

IV. **Scaling**

A. **Log Rule and Measurement** - All logs shall be scaled according to the Northwest Log Rules Eastside Log Scaling Handbook, as amended, or supplemented by BLM before the first advertisement date of the sale. A Scaling Authorization Form (OR 5300-18) must be completed prior to beginning of operations. If sample log scaling is agreeable to Purchaser and the Contracting Officer, the procedures will be agreed upon in writing regarding sample design, number of log sorts, expansion

of sample volumes for computation of Merchantable Timber volume, etc.

B. Scaling Service - Log scaling services shall be provided and performed by BLM personnel or parties under contract to BLM.

1. All logs shall be scaled and volumes determined by BLM or a certified contract scaler.

2. The BLM scaler or contract scaler is designated to collect Eastside MBF scale data from all loads.

C. Other Timber - If any timber is of a species or size not listed in Section II of this Exhibit (above) or is of a quality different from merchantable timber described herein, the Authorized Officer shall establish volumes and values in accord with Standard BLM methods.

D. Defect Caused by Abnormal Delay - Scaling deductions made for rot, check or other defect resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3. of the contract.

E. Log Presentation - Purchaser shall present logs so that they may be scaled in an economical and safe manner in accordance with the Memorandum(s) of Agreement for Yard Scaling required in Section IV.G.5. of this Exhibit.

F. Check Scale - The Government will conduct check scales as set forth in the following section.

Normally a check scale includes at least 200 short logs (20 feet or less) or at least 100 multiple-segment logs. Sample the species and defect situation as fairly as possible. Individually analyze more complex scaling situations and increase the number of logs check scaled if necessary.

The following standards will be used to determine the proficiency of individual scalers.

Gross Scale. A variance of one percent in gross scale is the standard unless otherwise justified.

Net scale. The allowable variance is as follows:

Check scaler's percent defect in logs	Scalers allowable variance
0-10 percent	2 percent
over 10 percent	.2 x percent defect to a maximum of 5 percent

Determinations as to volume of timber made by a government check scaler in conformance with the standards as set forth herein shall be final. All loads check scaled by BLM will be identified with the check scaler's initials legibly marked or painted in the face of the first log in each load. When such checks show a variance in scale in excess of acceptable standards, in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available BLM

check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Authorized Officer, the volume to which this difference will be applied will be 50 percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, 100 percent of the volume scaled during the unsatisfactory check, and 50 percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

G. Accountability

1. Purchaser shall notify the Authorized Officer three (3) days prior to starting or stopping of hauling operations performed under the contract.

2. All logs will be painted and branded at the landing and accounted for in accordance with Sec. 42(A)(1) of the contract. Each truck driver shall obtain a load receipt and a BLM scaler receipt from the Log Truck Ticket Book issued by the Authorized Officer and comply with the instructions specified on the cover of said book. While products are in transit, the truck driver shall display the load receipt and BLM scaler receipt on the bunk or wing log at the front of the load on the driver's side. All logs on each load shall be delivered to the destination listed on the woods receipt. The BLM scaler receipt shall be surrendered at the location of BLM scaling, the unloading location, or as requested by BLM.

3. The Purchaser shall not haul logs from the contract area on weekends; Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, and New Year's holidays; or outside the hours of 4:00 a.m. to 8:00 p.m. daily, unless otherwise approved in writing by the Authorized Officer or designated in the Approved Logging Plan (Refer to Section 42 (B) of the contract).

4. The Purchaser shall furnish BLM a map showing the route which shall be used to haul logs from the timber sale area to the scaling location. Such route shall be the most direct haul route between the two points, unless another route is approved by BLM. The route of haul may be changed only with advance notice to and approval by BLM. The haul route map shall be attached to the Approved Logging Plan.

5. All loads will be scaled at scale locations listed on the Scaling Authorization (Form OR 5300-18) as approved by the Authorized Officer. The Purchaser shall ensure that all scale site owners listed on the Scaling Authorization enter into a Memorandum of Agreement for Yard Scaling before requesting BLM approval of the Scaling Authorization. Areas for scaling BLM logs will be designated on the ground and identified on the yard map as required in the Memorandum(s) of Agreement for Yard Scaling.

6. Any removal of logs from loaded trucks before being accounted for and/or scaled as required by the contract shall be considered a willful trespass and render the Purchaser liable for damages under applicable law. Any payment made for purchase of such logs shall be deducted from amount due because of trespass.

H. Scaling Lost Products - The value of lost loads shall be equal to

the highest value load for the month in which the lost load is hauled regardless of where the highest value load is scaled. If no loads have been scaled in that month, value will be determined from the closest month in which loads were scaled.

V. **Estimated Volumes and Values** - The following volume estimates and calculations of value of timber sold are made solely as an administrative aid for determining payment amounts, when payments are due, the value of timber subject to any special bonding provisions, and other purposes specified in various portions of the contract. The cutting areas are shown on Exhibit A of the contract.

A. **Merchantable Timber Volume Removed from Contract Area** - The total volume of removed timber shall be determined using the Government's records of scaled volumes of timber skidded or yarded monthly, or a shorter period if agreed to by the Purchaser and Government, to loading points or removed from the contract area.

B. **Merchantable Timber Not Yet Removed from Contract Area** - The value of merchantable timber which has not been removed will be determined by multiplying the value per acre as shown below times the amount of acreage subject to the purpose of the value determination, as determined by the Authorized Officer:

Total Estimated Purchase Price And/Or Schedule of Volumes and Values for Merchantable Timber Not Yet Removed from Contract Area					
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Approximate Number of Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
15-1	4	21.8	87.0		
15-2	10	21.6	216.0		
15-3	2	21.5	43.0		
15-4	5	21.8	109.0		
20-1	29	21.4	620.0		
29-1	10	21.6	216.0		
29-2	2	21.5	43.0		
29-3	4	21.8	87.0		
29-4	4	21.8	87.0		
29-5	4	21.8	87.0		
29-6	4	21.8	87.0		
31-1A	11	21.6	238.0		
31-1B	9	21.4	193.0		
31-2	3	21.7	65.0		
31-3	5	21.8	109.0		
31-4	8	21.6	173.0		
31-5	7	21.6	151.0		
32-1	3	21.7	65.0		
Sale Total	124		2,676.0		

OVERNIGHT LOAD CONTROL RECORD	
Log Delivery Location	
Timber Sale	
1	Time and Date Load Delivered
2	Truck Name
3	Load Receipt No.
4	Number of Logs
5	Signature of Person Receiving the Load
6	Date and Time Load Released
7	Signature of Person Releasing the Load

Instructions:

1. Designated individual fills out the heading and lines 1 through 5 (including FULL SIGNATURE in ink on line 5.)
2. Contractor or BLM scaler will fill out lines 6 and 7 (including FULL SIGNATURE in ink) when loads are released for scaling, otherwise the BLM and/or yard owner will be required to sign.
3. Unless otherwise agreed, scaler will attach this form to the Load Receipt.

OVERNIGHT LOAD CONTROL RECORD	
Log Delivery Location	
Timber Sale	
1	Time and Date Load Delivered
2	Truck Name
3	Load Receipt No.
4	Number of Logs
5	Signature of Person Receiving the Load
6	Date and Time Load Released
7	Signature of Person Releasing the Load

Instructions:

1. Designated individual fills out the heading and lines 1 through 5 (including FULL SIGNATURE in ink on line 5.)
2. Contractor or BLM scaler will fill out lines 6 and 7 (including FULL SIGNATURE in ink) when loads are released for scaling, otherwise the BLM and/or yard owner will be required to sign.
3. Unless otherwise agreed, scaler will attach this form to the Load Receipt.



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

Timber Appraisal

Sale Name: Taylor Hazard	Sale Date: Thursday, June 27, 2019
BLM District: Medford DO	Unit of Measure: 16' MBF
Contract #: ORM07-TS-2019.0020	Contract Term: 12 months
Sale Type: Advertised	Contract Mechanism: 5450-4
	Sale of Timber - Scale Sale

Content

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

Prepared By: Caulfield, David J - 5/14/2019

Approved By: Caulfield, David J - 5/20/2019

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Josephine	35S	7W	15	SE1/4NW1/4, E1/2SW1/4, S1/2SE1/4	Willamette
PD	Josephine	35S	7W	20	SE1/2SW1/4, W1/2SE1/4	Willamette
O&C	Josephine	35S	7W	29	S1/2NE1/4, N1/2NW1/4 SE1/4NW1/4, N1/2SE1/4	Willamette
PD	Josephine	35S	7W	30	SE1/4,SW1/4	Willamette
O&C	Josephine	35S	7W	31	W1/2NE1/4, SE1/4NE1/4, E1/2NW1/4, E1/2SW1/4, N1/2SE1/4, SW1/4SE1/4	Willamette
PD	Josephine	35S	7W	32	NW1/4SW1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	2,196.0	2,555.0	2,773.0	16,319	5,215	4,736
Sugar Pine	236.0	271.0	291.0	964	605	318
Ponderosa Pine	225.0	264.0	274.0	1,218	357	345
Incense-cedar	19.0	22.0	25.0	310	149	161
Totals	2,676.0	3,112.0	3,363.0	18,811	6,326	5,560

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	124.0	0.0	124.0	21.6

Comments:

Fire Salvage Roadside Hazard Trees

Logging Costs

Stump to Truck	\$556,704.78
Transportation	\$123,079.60
Road Construction	\$46,438.56
Maintenance/Rockwear	\$17,928.12
Road Use	\$0.00
Other Allowances	\$29,664.50
Total:	\$773,815.56
Total Logging Cost per MBF:	\$289.17

Utilization Centers

Location	Distance	% of Net Volume
Glendale, OR	31.0 miles	100 %

Profit & Risk

Profit	9 %
Risk	3 %
Total Profit & Risk	12 %

Tract Features

Quadratic Mean DBH	22.7 in
Average GM Log	165 bf
Average Volume per Acre	21.6 mbf
Recovery	80 %
Net MBF volume:	
Green	0.0 mbf
Salvage	2,676 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	76 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft
Cable Logging:	
Percent of Sale Volume	24 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft
Aerial Logging:	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	December 2018
Cruised By	Caulfield/Cannon
Cruise Method	

All units were cruised using PCMTRE method. 209 plots were cruised using a 40 BAF and a sampling frequency of 1 in 8. The walk through method was used on edge plots. Maps showing the location of these sample trees and plots are available at the Grants Pass Interagency Office.

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	4,736	2,196.0	\$381.70	\$45.80	\$289.17	\$0.00	\$46.70	\$102,553.20
Sugar Pine	318	236.0	\$235.00	\$28.20	\$289.17	\$0.00	\$23.50 *	\$5,546.00
Ponderosa Pine	345	225.0	\$238.63	\$28.64	\$289.17	\$0.00	\$23.90 *	\$5,377.50
Incense-cedar	161	19.0	\$454.61	\$54.55	\$289.17	\$0.00	\$110.90	\$2,107.10
Totals	5,560	2,676.0						\$115,583.80

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

Percent of Volume By Log Grade

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

Comments: The DF Pond Values have been reduced to reconcile the deficit values for the pine on this sale. Burnt Douglas Fir priced \$125/mbf less than green.

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine			17.0 %	69.0 %	14.0 %		

Comments: Salvage Pine Pricing.

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Ponderosa Pine				71.0 %	29.0 %		

Comments: Salvage Pine Pricing.

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar				50.0 %	50.0 %		

Comments: Burnt Cedar priced \$125 less than green.

Taylor Hazard**Unit Summary****ORM07-TS-2019.0020****Unit: 15-1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	71.0	82.0	89.0	153
Sugar Pine	8.0	9.0	9.0	10
Ponderosa Pine	7.0	9.0	9.0	11
Incense-cedar	1.0	1.0	1.0	5
Totals:	87.0	101.0	108.0	179

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 15-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	177.0	206.0	224.0	382
Sugar Pine	19.0	22.0	23.0	26
Ponderosa Pine	18.0	21.0	22.0	28
Incense-cedar	2.0	2.0	2.0	13
Totals:	216.0	251.0	271.0	449

Net Volume/Acre: 21.6 MBF

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
Total Acres:	10.0

Unit: 15-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	35.0	41.0	45.0	76
Ponderosa Pine	4.0	4.0	4.0	6
Sugar Pine	4.0	4.0	5.0	5
Totals:	43.0	49.0	54.0	87

Net Volume/Acre: 21.5 MBF

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

Unit: 15-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	89.0	103.0	112.0	191
Sugar Pine	10.0	11.0	12.0	13
Ponderosa Pine	9.0	11.0	11.0	14
Incense-cedar	1.0	1.0	1.0	6
Totals:	109.0	126.0	136.0	224

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
Total Acres:	5.0

Unit: 20-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	513.0	600.0	649.0	1,106
Ponderosa Pine	54.0	61.0	64.0	81
Sugar Pine	52.0	62.0	70.0	74
Incense-cedar	1.0	3.0	5.0	45
Totals:	620.0	726.0	788.0	1,306

Net Volume/Acre: 21.4 MBF

Regeneration Harvest	0.0
Partial Cut	29.0
Right of Way	0.0
Total Acres:	29.0

Unit: 29-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	177.0	206.0	224.0	382
Sugar Pine	19.0	22.0	23.0	26
Ponderosa Pine	18.0	21.0	22.0	28
Incense-cedar	2.0	2.0	2.0	13
Totals:	216.0	251.0	271.0	449

Net Volume/Acre: 21.6 MBF

Regeneration Harvest	0.0
Partial Cut	10.0
Right of Way	0.0
Total Acres:	10.0

Unit: 29-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	35.0	41.0	45.0	76
Ponderosa Pine	4.0	4.0	4.0	6
Sugar Pine	4.0	4.0	5.0	5
Totals:	43.0	49.0	54.0	87

Net Volume/Acre: 21.5 MBF

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

Unit: 29-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	71.0	82.0	89.0	153
Sugar Pine	8.0	9.0	9.0	10
Ponderosa Pine	7.0	9.0	9.0	11
Incense-cedar	1.0	1.0	1.0	5
Totals:	87.0	101.0	108.0	179

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 29-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	71.0	82.0	89.0	153
Sugar Pine	8.0	9.0	9.0	10
Ponderosa Pine	7.0	9.0	9.0	11
Incense-cedar	1.0	1.0	1.0	5
Totals:	87.0	101.0	108.0	179

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 29-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	71.0	82.0	89.0	153
Sugar Pine	8.0	9.0	9.0	10
Ponderosa Pine	7.0	9.0	9.0	11
Incense-cedar	1.0	1.0	1.0	5
Totals:	87.0	101.0	108.0	179

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 29-6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	71.0	82.0	89.0	153
Sugar Pine	8.0	9.0	9.0	10
Ponderosa Pine	7.0	9.0	9.0	11
Incense-cedar	1.0	1.0	1.0	5
Totals:	87.0	101.0	108.0	179

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	4.0
Right of Way	0.0
Total Acres:	4.0

Unit: 31-1A

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	195.0	227.0	246.0	420
Sugar Pine	21.0	24.0	26.0	28
Ponderosa Pine	20.0	23.0	24.0	31
Incense-cedar	2.0	2.0	2.0	14
Totals:	238.0	276.0	298.0	493

Net Volume/Acre: 21.6 MBF

Regeneration Harvest	0.0
Partial Cut	11.0
Right of Way	0.0
Total Acres:	11.0

Unit: 31-1B

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	159.0	185.0	201.0	344
Sugar Pine	17.0	20.0	21.0	23
Ponderosa Pine	16.0	19.0	20.0	25
Incense-cedar	1.0	2.0	2.0	12
Totals:	193.0	226.0	244.0	404

Net Volume/Acre: 21.4 MBF

Regeneration Harvest	0.0
Partial Cut	9.0
Right of Way	0.0
Total Acres:	9.0

Unit: 31-2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	62.0	67.0	115
Sugar Pine	6.0	7.0	7.0	8
Ponderosa Pine	5.0	6.0	7.0	8
Incense-cedar	1.0	1.0	1.0	4
Totals:	65.0	76.0	82.0	135

Net Volume/Acre: 21.7 MBF

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
Total Acres:	3.0

Unit: 31-3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	89.0	103.0	112.0	191
Sugar Pine	10.0	11.0	12.0	13
Ponderosa Pine	9.0	11.0	11.0	14
Incense-cedar	1.0	1.0	1.0	6
Totals:	109.0	126.0	136.0	224

Net Volume/Acre: 21.8 MBF

Regeneration Harvest	0.0
Partial Cut	5.0
Right of Way	0.0
Total Acres:	5.0

Unit: 31-4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	142.0	165.0	179.0	306
Sugar Pine	15.0	17.0	19.0	21
Ponderosa Pine	15.0	17.0	18.0	22
Incense-cedar	1.0	1.0	2.0	10
Totals:	173.0	200.0	218.0	359

Net Volume/Acre: 21.6 MBF

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

Unit: 31-5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	124.0	144.0	157.0	267
Sugar Pine	13.0	15.0	16.0	18
Ponderosa Pine	13.0	15.0	15.0	19
Incense-cedar	1.0	1.0	1.0	9
Totals:	151.0	175.0	189.0	313

Net Volume/Acre: 21.6 MBF

Regeneration Harvest	0.0
Partial Cut	7.0
Right of Way	0.0
Total Acres:	7.0

Unit: 32-1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	53.0	62.0	67.0	115
Sugar Pine	6.0	7.0	7.0	8
Ponderosa Pine	5.0	6.0	7.0	8
Incense-cedar	1.0	1.0	1.0	4
Totals:	65.0	76.0	82.0	135

Net Volume/Acre: 21.7 MBF

Regeneration Harvest	0.0
Partial Cut	3.0
Right of Way	0.0
Total Acres:	3.0

Comments:

Minimum required piece size 16 feet log 12 inches diameter on the small end. Volume smaller than the required size was not removed from cruise, because if material is shipped purchaser will charged for all volume all down to 8 feet and 5 inches.

Total Stump To Truck	Net Volume	\$/MBF
\$556,704.78	2,676.0	\$208.04

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Medium Yarder	GM MBF	753.0	\$197.87	\$148,996.11	Salvage Logging Small Units
Track Skidder	GM MBF	2,359.0	\$162.77	\$383,974.43	Salvage Logging Small Units
Subtotal				\$532,970.54	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Hot Saw	Day	5.0	\$1,200.00	\$6,000.00	Roadside clearing of submerch materials along haul routes.
Hand fallers	Day	10.0	\$500.00	\$5,000.00	Fall oversized timber and dangerous snags.
Directional Falling	MBF	268.0	\$7.68	\$2,058.24	Directional falling trees away sensitive areas
Subtotal				\$13,058.24	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable Side	Each	3.0	\$1,976.00	\$5,928.00	4 hrs each- Yarder, Loader, Tractor, Processor
Tractor Side	Each	3.0	\$1,440.00	\$4,320.00	4 hrs each - Loader, Skidder, Processor
Hot Saw	Each	1.0	\$428.00	\$428.00	4 Hrs initial move in
Subtotal				\$10,676.00	

Total	Net Volume	\$/MBF
\$123,079.60	2,676.0	\$45.99

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Glendale, OR	31.0	All Species	GM MBF	3,112.0	\$39.55	\$123,079.60	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$64,366.68	2,676.0	\$24.05

Cost Item	Total Cost
Road Construction:	\$46,438.56
Road Maintenance/Rockwear:	\$17,928.12
Road Use Fees:	\$0.00

Total	Net Volume	\$/MBF
\$29,664.50	2,676.0	\$11.09

Environmental Protection

Cost Item	Total Cost
Equipment Washing	\$640.00
Waterbar Corridors	\$960.00
Waterbar Skids	\$1,800.00
Block Skid Trails	\$900.00
Seed and Mulch	\$3,192.00
Ripping	\$5,810.00
Subtotal	\$13,302.00

Logging

Cost Item	Total Cost
Landing Construction	\$5,150.00
Subtotal	\$5,150.00

Road Construction, Maintenance, Use, & Decommissioning

Cost Item	Total Cost
Stream and Culvert Cleaning	\$480.00
Subtotal	\$480.00

Slash Disposal & Site Prep

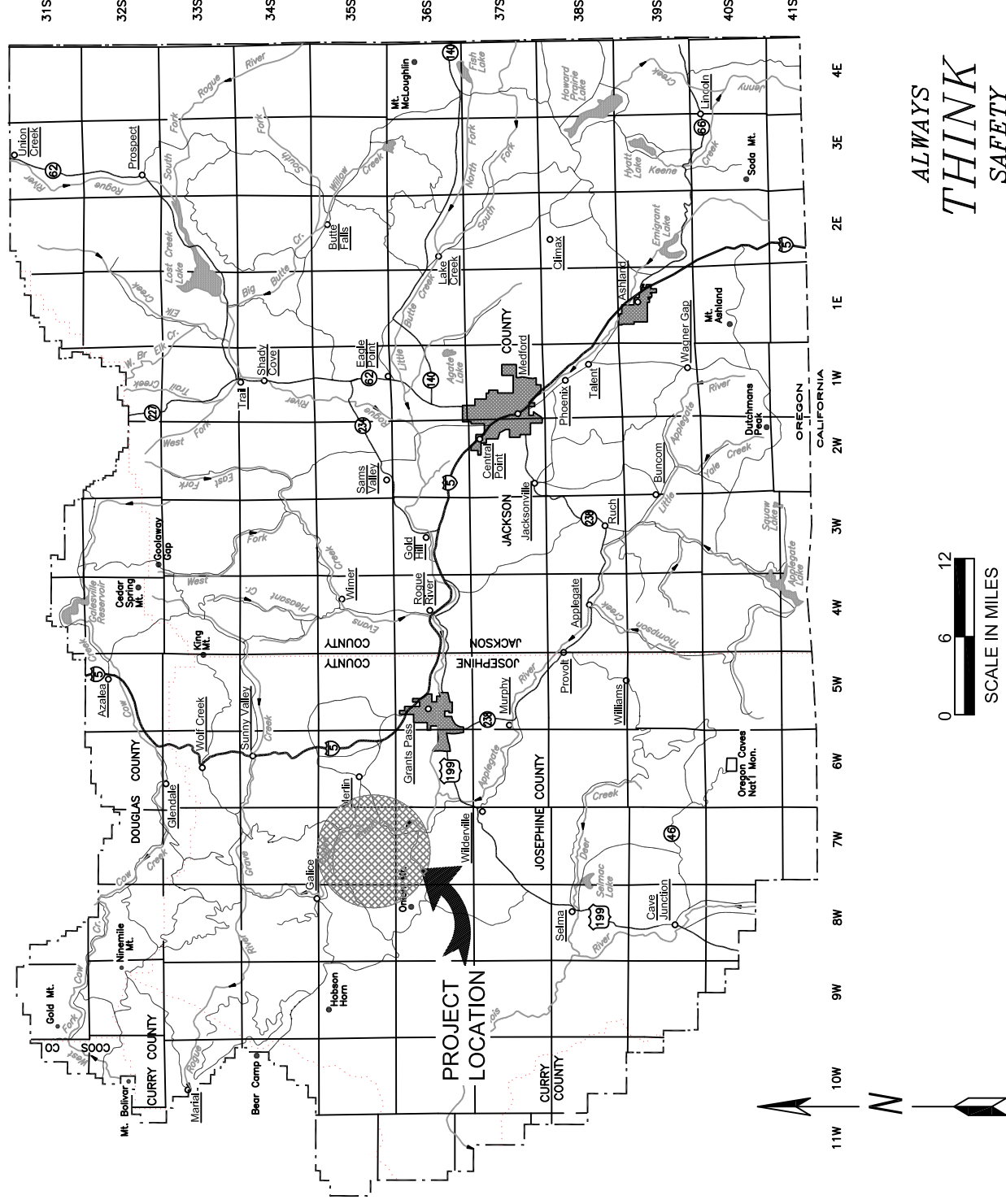
Cost Item	Total Cost
Lop and Scatter	\$4,084.50
Cover and Burn Landing Decks	\$1,498.00
Machine Pile Landing Decks	\$5,150.00
Subtotal	\$10,732.50

Comments:

Machine Pile Landing Decks include landing cleanup.

EXHIBIT C1

TAYLOR CREEK HAZARD
TRACT NO. ORM07-TS-19-20



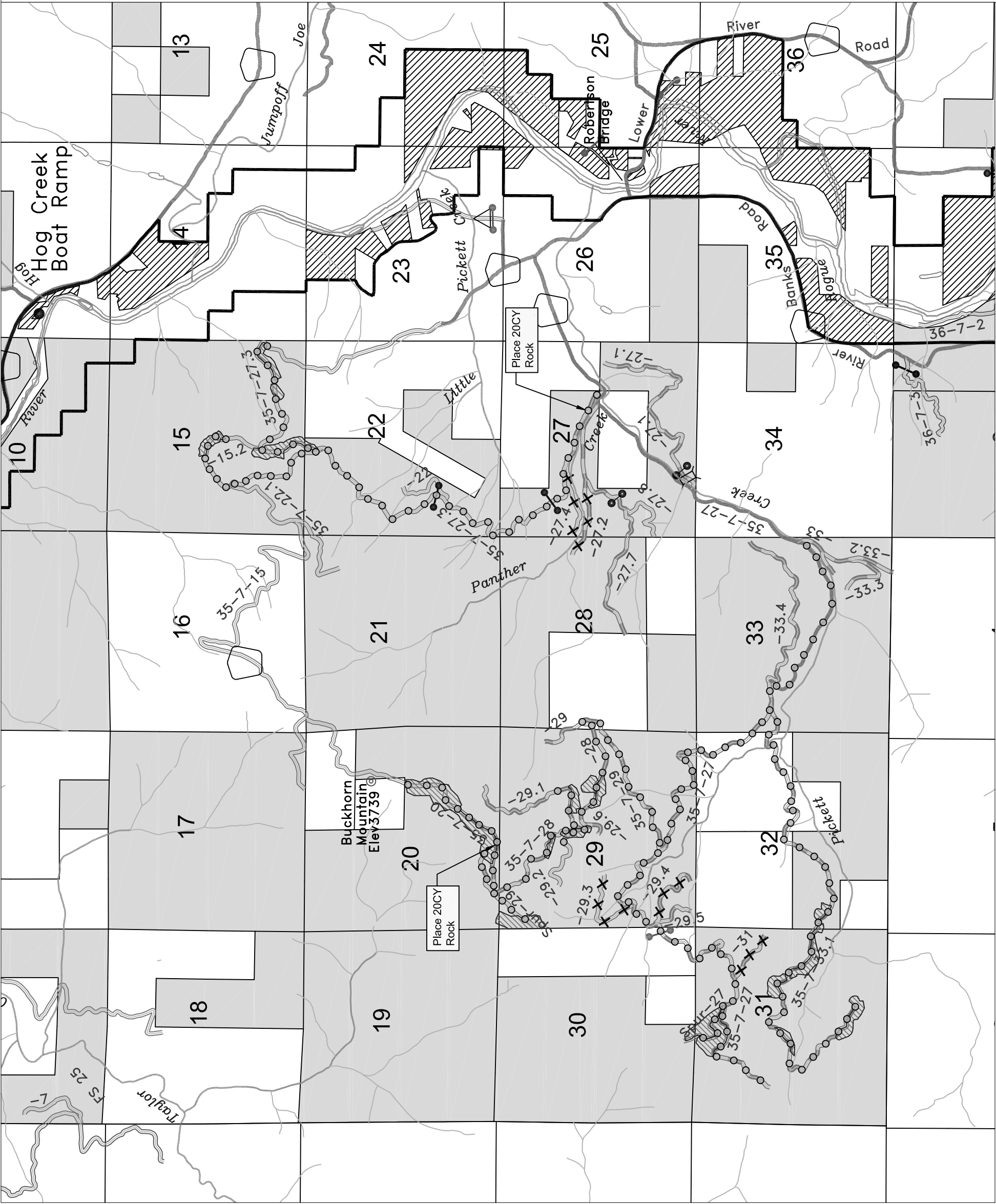
ALWAYS
THINK
SAFETY

A horizontal scale bar with a black outline. It is divided into two equal segments by a vertical line. The left segment is white, and the right segment is black. Above the bar, the numbers 0, 6, and 12 are written in a vertical column, with 0 at the left end, 6 at the midpoint, and 12 at the right end. Below the bar, the text "SCALE IN MILES" is written in a vertical column.

EXHIBIT NO.	DESCRIPTION	
C1	TITLE SHEET	
C2	ROAD RENOVATION MAPS	
C3	ESTIMATE OF QUANTITIES SHEETS	
C4	TYPICAL ROAD DATA SHEET	
C5	ROADSIDE BRUSHING DETAILS	
C6	DRAINAGE & EROSION CONTROL DETAILS	
C7	ROADS WORK LIST	
C8	ROAD SPECIFICATIONS	
C9	SPECIAL PROVISIONS	
D1	ROAD MAINTENANCE SPECIFICATIONS	
D2	ROAD MAINTENANCE MAPS	
REV. NO.	DESCRIPTION	DATE
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON		

TAYLOR CREEK HAZARD
TIMBER SALE
TITLE SHEET

DESIGNED:
APPROVED:
DRAFTED BY:
DATE: NOV 11 2011
DRAWING NO:



TAYLOR CREEK HAZARD
ROAD LOCATION MAP
EXHIBIT C-2; PAGE 1 OF 1

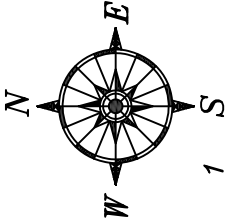
U.S.D.I. BLM MEDFORD DISTRICT
T.35S., R.7W. WILL. MER.

- EXISTING GATE
- EXISTING BARRICADE

ROAD PROJECTS



- EXISTING ROAD
- EXISTING PAVED ROAD
- EXISTING PRIMITIVE ROAD
- ROAD RENOVATION AND
ROADSIDE BRUSHING

- BLM LAND
- TS UNITS



SCALE IN MILES

EXHIBIT C3

ROAD NUMBER	FROM (M.P.)	TO (M.P.)	LENGTH (MILES)	CLEARING AND GRUBBING	EXCAVATION		DRAINAGE						RENOVATION				AGGREGATE			SOIL STABILIZATION	ROADSIDE BRUSHING	MISCELLANEOUS							
							CORRUGATED METAL PIPE 16 GA						COMMON	500				700				CRUSHED ROCK	BORROW MATERIAL						
							SIZE		ELBOWS		DOWNSPOUT			BLADING, WATERING, & ROLLING	DITCH AND/OR CULVERT CLEANING	SCARIFICATION AND/OR HEAVY BLADING	SLIDE REMOVAL	PIT RUN											
					18"	24"	36"	18"	24"	HAIF ROUND	EA	LF	EA						LF	MILE	MILE	MILE	CY	CY	CY	EA	EA	EA	EA
SPECIFICATION NO. 				200	300	400	500				700	1200	8000	1800	2100	8000													
UNITS 	MP	MP	MILE	ACRE	CY	CY	LF	LF	EA	LF	LF	MILE	MILE	MILE	CY	CY	CY	EA	EA	EA	EA	EA	EA	EA	EA	EA			
35-7-15.2	0.00	0.40	0.40									0.40	0.40																
35-7-20.0	0.00	0.86	0.86									0.86	0.86				20								1				
35-7-22.1	0.00	0.54	0.54									0.54	0.54																
35-7-27.0 (C-F)	1.20	5.86	4.66									4.66	4.66																
35-7-27.3 (A-B)	0.00	3.56	3.56									3.56	2.41	0.35	130		20												
35-7-28.0 (A-C)	0.00	1.60	1.60									1.60	1.60										20	1	1	1			
35-7-29.0 (A)	0.00	0.95	0.95									0.95	0.95																
35-7-29.1	0.00	0.25	0.25									0.25	0.25													1			
35-7-29.2	0.00	0.09	0.09									0.09														1			
35-7-33.1 (A-B)	0.00	3.11	3.11									3.11	3.11		30														
Spur 35-7-27.0	0+00	0.21	0.21									0.21													1	1			
Spur 35-7-29.0	0.00	0.20	0.20									0.20										5		1					
TOTALS			16.43									16.43	14.78	0.35	160								25	1	3	5			

RENOVATION NOTES

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

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

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

AGGREGATE GRADATION REQUIREMENTS

ITEM 900

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

ITEM 1000

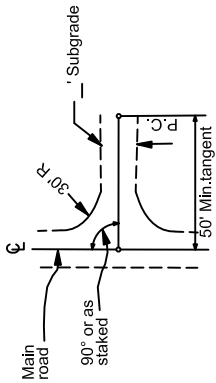
SIZE	GRADATION
3 inch	A,C,F
2 inch	B,D,G,H

ITEM 1200

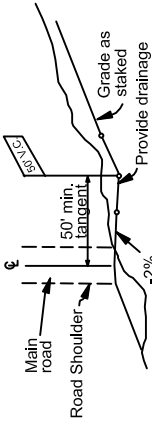
SIZE	GRADATION
1 1/2 inch	C,G-1
1 inch	D,D-1
3/4 inch	E,E-1

REV. NO.	DESCRIPTION	DATE	APPROVAL
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TAYLOR HAZARD TIMBER SALE ESTIMATE OF QUANTITIES			
DRAFTED BY: ELF		SCALE: NONE	
DATE: NOV 2018		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-1			

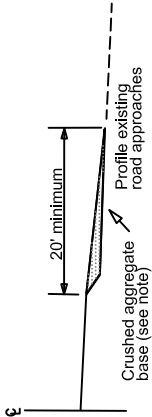
TYPICAL ROAD APPROACHES



PLAN



PROFILE

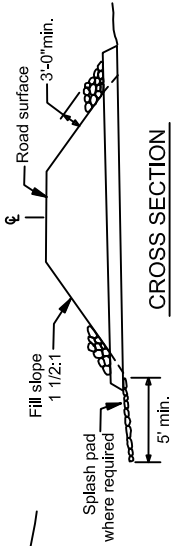


TYPICAL SURFACING SECTION

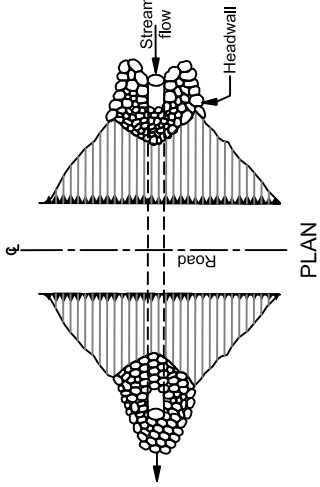
NOTES:

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.

RIPRAP AT CULVERTS

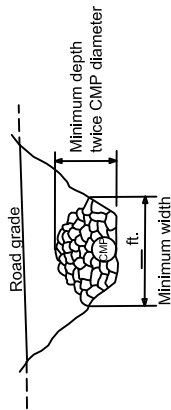


CROSS SECTION



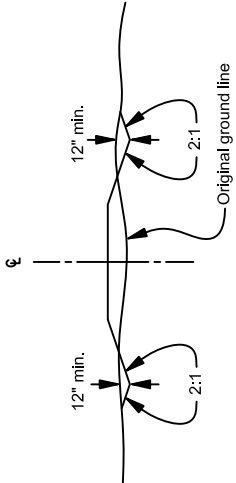
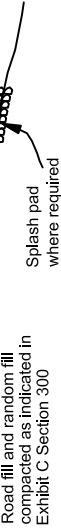
PLAN

- 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.



ELEVATION

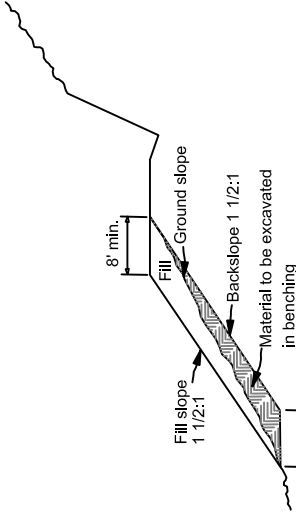
TYPICAL RANDOM FILL



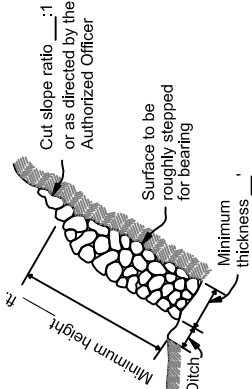
TYPICAL ROAD SECTION FOR TURNPIKE CONSTRUCTION



CUT SLOPE ROUNDING

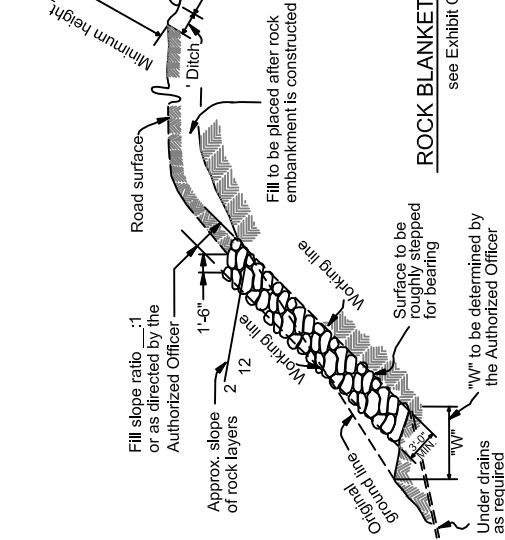


SPECIAL COMPACTION TYPICAL BENCHING SECTION



ROCK BLANKETS AND STRUCTURES

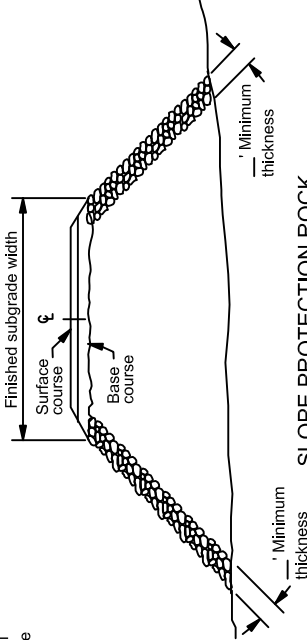
see Exhibit C Section 1400



ALWAYS THINK SAFETY

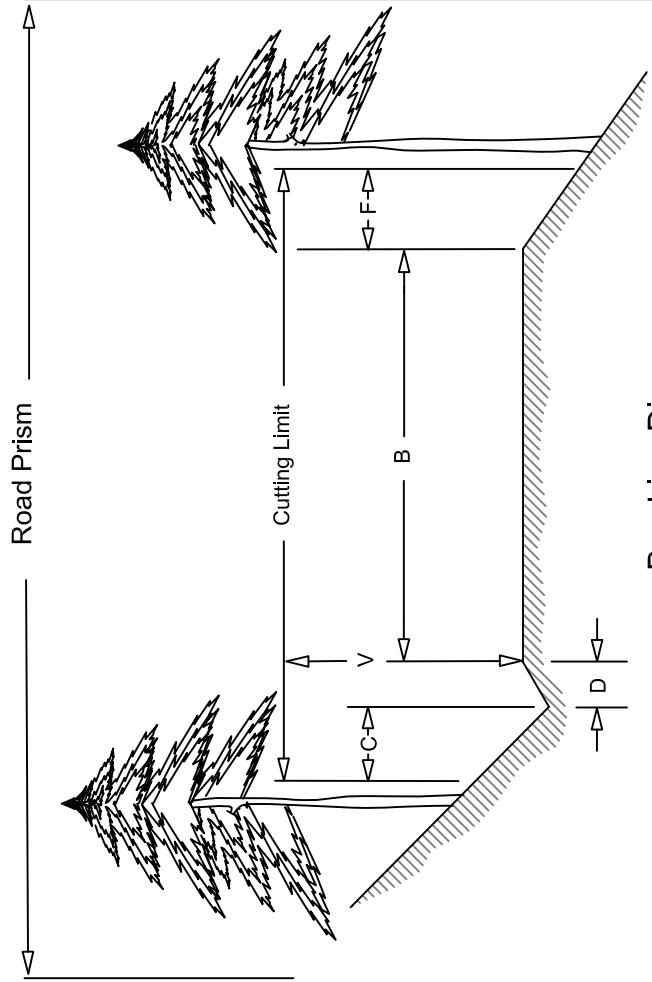
SLOPE PROTECTION ROCK

see Exhibit C Section 1400



REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TAYLOR HAZARD TIMBER SALE TYPICAL ROAD DATA			
DRAFTED BY: ELF		SCALE: NONE	
DATE: NOV 2018		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

EXHIBIT C5



Cutting Limit = C + D + B + F

B = Road Bed Subgrade (includes turnouts)

Cut all vegetation to maximum height of 1".

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

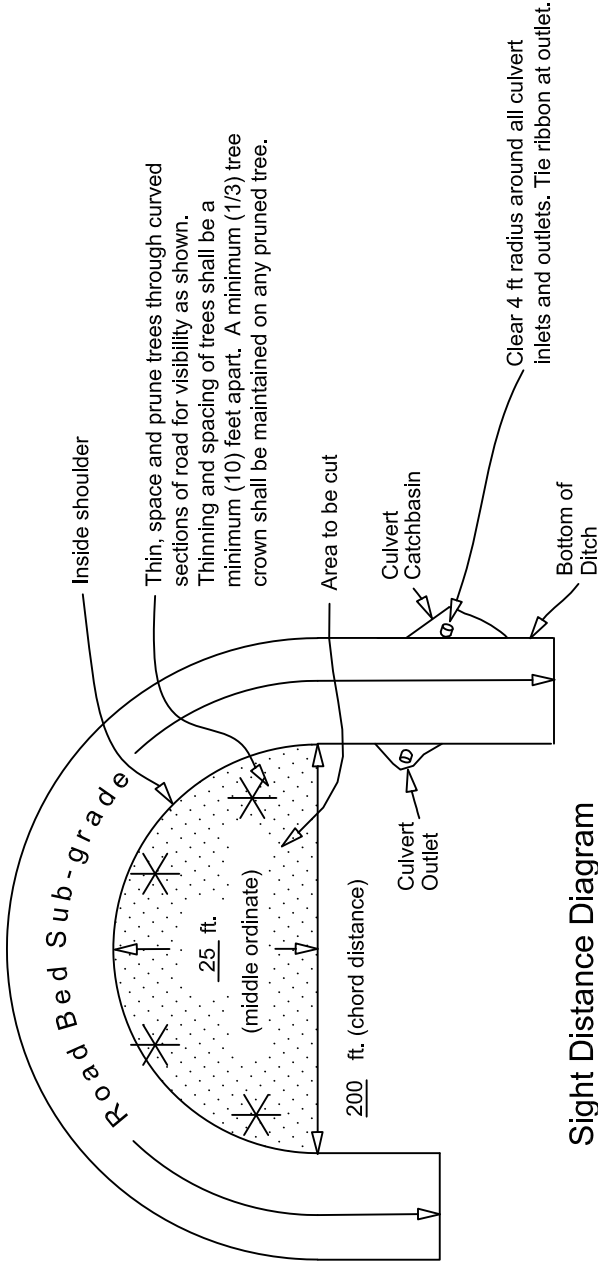
D = Centerline of ditch to inside shoulder. Cut all vegetation to maximum height of 1".

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

V = 14 ft - Height of vertical cutting limit

Brushing Diagram

Inside Corner



Sight Distance Diagram

ALWAYS
THINK
SAFETY

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TAYLOR HAZARD TIMBER SALE ROADSIDE BRUSHING DETAIL			
DRAFTED BY: ELF		SCALE: NONE	
DATE: NOV 2018		SHEET: 1 OF 1	
DRAWING NO.: OR-11-9113.4-4			

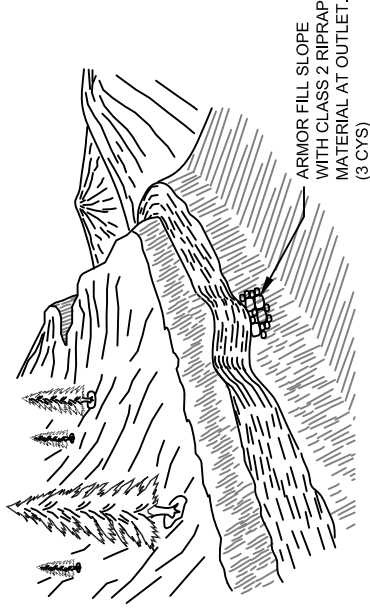
The diagram illustrates a road cross-section with a 12-inch fill area and a cut area. The fill area is labeled "12" Fill" and is shaded with a cross-hatch pattern. The cut area is labeled "Cut" and is also shaded. A "Level line" is shown as a solid horizontal line. The "Road Grade" is indicated by a dashed line. The distance from the fill area to the cut is 5'. The width of the cut is 8'-12". The direction of traffic is shown by an arrow pointing to the right.

- ## WATER BAR SPACING* BY EROSION CLASS^

ROAD GRADE	HIGH	MODERATE	LOW
%	FEET	FEET	FEET
2-5	200	300	400
6-10	150	200	300
11-15	100	150	200
16-20	75	100	150
21-35	50	75	100
35+	50	50	50

^ The erosion classes include the following rock types:

Low: Metasediments, metavolcanics, and hard shale.



- WATER DIP SPACING*

ROAD GRADE	SANDY LOAM LOAM	DECOMPOSED GRANITE/SAND	CLAY & SILTY SOILS
%	FEET	FEET	FEET
2-3	-	2000-1000	1200-600
4-7	1200-600	950-450	600-300
8-10	550-450	450-350	300-200
11-15	450-300	350-200	200-100
16+	300-250	200-150	100

*ALWAYS
THINK
SAFETY*

REV. NO.	DESCRIPTION	DATE	APPROV.
UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT MEDFORD DISTRICT - MEDFORD, OREGON			
TAYLOR HAZARD TIMBER SALE DRAINAGE & EROSION CONTROL DETAILS			
DRAFTED BY: ELF		SCALE: NONE	
DATE: NOV 2018		SHEET: 1 OF 2	
DRAWING NO.: OR-11-8113.4-4			

Exhibit C7

Sale Name: Taylor Hazard

Page 1 of 4

Roads Work List

Definitions:

ABC = Aggregate Base Course
ASC = Aggregate Surface Course
BST = Bituminous
CL = Center Line
CMP = Corrugated Metal Pipe
CY = Cubic Yard
GRR = Grid Rolled Rock
AGG=Aggregate

Jct = Junction/Intersection
MP = Mile Post
NAT = Natural or Native Surface
PRR= Pit Run Rock
Pvt = Private
Seg = Segment

Existing Road Renovation

*The existing road renovation work list consists of work to be performed to the road **prior** to timber hauling. All work shall comply with the contract special provisions, specifications, and drawings.*

35-7-15.2 NAT

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-22.1 Road. Begin road renovation which includes blading, roadside brushing. Maintain or reinstall water bars.
0.04	Water bar.
0.20	Pond on right.
0.40	End of unit 15-1.

35-7-20.0 Road – GRR

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-28.0 Road. Begin road renovation which includes blading; roadside brushing and chipping.
0.26	Low spot in road. Place 20 Cu. Yds. of 1” rock. Blade out slope to create drainage.
0.34	Waste disposal site on right. Place waste material on stable area well off of road surface and outside of turnaround/landing area so not to impede drivability of traffic.
0.54	Road turns to natural surface.
0.86	Reconstruct turnaround area. End road renovations. Waste disposal site on right. Place waste material on stable area well off of road surface and outside of turnaround area so not to impede drivability of traffic.

35-7-22.1 Road- NAT

<u>MP</u>	<u>Description</u>
0.00	Jct. w/ 35-7-27.3 Road. Begin Purchaser road renovation which includes ...blading, cleaning ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping.
0.17	Repair inlet of CMP by cutting off damaged end and replacing with band and new CMP.
0.27	Repair inlet of CMP by cutting off damaged end and replacing with band and new CMP.
0.37	Repair inlet of CMP by jacking open inlet.
0.54	Jct. Road 35-7-15.2. End Renovation.

35-7-27.0 Road Seg C-F – ASC-w/ portions of *Highly Damaged Chipseal*

<u>MP</u>	<u>Description</u>
1.20	End BLM renovations at end of BST road surface. Begin Purchaser road renovation which includes blading, watering, and rolling; cleaning ditch lines; clearing all culvert inlets and

Exhibit C7

Sale Name: Taylor Hazard

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- outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping.
- 2.52 Jct w/ 35-7-33.4 Road on right.
 - 2.62 Jct w/ 35-7-33.1 Road on left.
 - 3.10 Repair CMP inlet by jacking open.
 - 3.57 Hydrologic point of concern at existing stream crossing. Install check dams or other approved BMP's per Exhibit C6-2 details and specifications when engaging in road renovation activities outside of the in-stream window.
 - 3.87 Jct w/ 35-7-29.0 Road on right.
 - 4.12 Clean CMP inlet and clean ditchline.
 - 4.29 Hydrologic point of concern at existing stream crossing. Install check dams or other approved BMP's per Exhibit C6-2 details and specifications when engaging in road renovation activities outside of the in-stream window.
 - 4.42 Jct w/ old spur road on right.
 - 4.63 Jct w/ old spur road on left.
 - 4.66 Private Gate to Ranch. Keep gate locked.
 - 5.38 Jct w/ 35-7-31 on left. Begin natural surfacing.
 - 5.55 Jct w/ Spur road 35-7-27 on right. See Exhibit C2 for Temp Route map and specifications. Remove downed logs from ditchline. Begin Heavy Brush
 - 5.64 Repair CMP inlet by jacking open.
 - 5.80 Find and clean CMP Inlet.
 - 5.86 End renovation.

35-7-27.3 Road Seg A-B – GRR/NAT

<u>MP</u>	<u>Description</u>
0.00	Jct w/ W. Pickett Creek Road (County) and 35-7-27.0 Road. Begin road renovation which includes blading with watering, and rolling, cleaning ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping.
0.06	Jct w/ 35-7-27.5 road on right.
0.16	Place 20 CY of rock in low area. Blade Road to allow drainage.
0.42	Jct w/ 35-7-27.4 road on left.
0.72	Jct w/ old spur roads on left and right. Begin natural surfacing. Waste disposal site. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
0.73	Non-functional gate. Only gate posts remain.
0.83	CMP. Plugged by slide. Remove slide material and haul to waste disposal site. 5-10 YARDS
1.52	Jct w/ 35-7-22.0 Road on right.
1.88	Remove rocky material from cut bank side of road to increase road width. Place material on outside edge of road. 10 CY
2.13	Waste disposal site. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
2.41	Jct. with 35-7-22.1 road on left. Waste disposal site. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic. Remove dirt barricade and replace after log haul. Begin subgrade renovation by heavy blading – leave buried CMP inlets blocked. Install 6 waterbars in roadway to mp 2.76 after log haul.
2.74	Remove approximately 100 cy of slide material from roadway by drifting material ahead as roadway embankment to mp 2.76.
2.76	Jct with 35-7-15.2 rd
	Install 14 waterbars in roadway to mp 3.56 after log haul.
3.56	End of Unit 15.4 End Road Renovation.

Exhibit C7

Sale Name: Taylor Hazard

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35-7-28.0 Road Seg A-B-C – ASC

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-29.0 Road. Begin road renovation which includes blading, watering, and rolling; cleaning and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.08	Existing cmp. Repair inlet by jacking open.
0.17	Waste disposal site on left. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
0.22	Remove boulder from road. (backhoe or grader sufficient)
0.47	Existing cmp. Repair inlet by jacking open.
0.63	Jct w/ 35-7-29.6 Road on left.
0.67	Waste disposal site on left. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
0.68	Jct w/ 35-7-29.2 Road on left.
0.70	Jct w/ 35-7-29.1 Road on right.
1.05	Waste disposal site on left. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
1.23	Waste disposal site on left. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
1.26	Existing 18" cmp. Find inlet and end haul material to disposal area.
1.29	Repair slump on outside edge of road. Excavate 5 CY of common material and place and compact 5 CY of rock.
1.35	Jct w/ 35-7-20.0 road on right and spur 35-7-29 road on left. Waste disposal site on left. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
1.60	Reconstruct turnaround/landing area. End road renovations. Waste disposal site at end of road. Place waste material on stable area well off of road surface and outside of turnaround/landing area so not to impede drivability of traffic.

35-7-29.0 Road Seg A – ASC-w/ portions of *Highly Damaged Chipseal*

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-27.0 Road. Begin road renovation which includes blading, cleaning and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; roadside brushing.
0.07	Waste disposal site on right. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
0.26	Waste disposal site on right. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
0.82	Jct w/ Pvt Road on right.
0.95	Jct w/ 35-7-28.0 Road on left. End road renovation.

35-7-29.1 Road – PRR

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-28.0 Road. Begin road renovation which includes blading; cleaning and reshaping ditch lines; maintaining existing water dips; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing.
0.05	Maintain water dip
0.25	Unit boundary on right. Reconstruct turnaround/landing area. End road renovations. Waste disposal site on right. Place waste material on stable area well off of road surface and outside of turnaround/landing area so not to impede drivability of traffic.

Exhibit C7

Sale Name: Taylor Hazard

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35-7-29.2 Road – NAT

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-28.0 Road. Begin road renovation which includes roadside brushing and blading
0.09	Construct turnaround landing area. End road renovations

35-7-33.1 Road Seg A-B-C – AGG

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-27.0 Road. Begin road renovation which includes reshaping road surface (blading, watering, and rolling); cleaning and reshaping ditch lines; clearing all culvert inlets and outlets; cleaning all debris or obstructions from inside culverts; and roadside brushing and chipping. Removing downed logs from cut bank and ditchline.
0.26	Hydrologic point of concern at existing stream crossing. Install check dams or other approved BMP's per Exhibit C6-2 details and specifications when engaging in road renovation activities outside of the in-stream window.
0.75	Large landing area. Begin Heavy Brush
2.15	Small waste disposal site. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
2.20	Slide in road. Load and end haul 30 CY of material to waste disposal site.
2.44	Waste disposal site. Place waste material on stable area well off of road surface and outside of turnout area so not to impede drivability of traffic.
2.54	Tree across road. Cut to merchantable length, place on outside edge of road.
2.56	Deep culvert.
2.59	Large downed burned tree. Move to outside edge of road.
2.61	Tree hanging over cut bank. Remove to turnout area.
2.66	Draw culvert. Tree hanging over cut bank. Cut to merchantable length, place on outside edge of road.
2.73	Remove burned out tree hanging over cut bank.
2.75	Existing 18" cmp. Find inlet and end haul material to disposal area. Remove tree hanging from cut bank.
3.11	End of road. End heavy brush

Spur 35-7-27 NAT

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-27.0 Road (at MP 5.55) and large landing/end haul area. Unit boundary on right and left. Begin road renovation. Construct log and dirt barricade after log haul. See Exhibit C6-1 and C2 for additional specifications.
0.01	Begin CL regrading. Existing CL grades vary from +22% to +11%. Regrade CL for an overall +17% CL grade.
0.09	End CL regrading.
0.21	End road renovation. Construct truck turnaround area.

Spur 35-7-29 NAT

<u>MP</u>	<u>Description</u>
0.00	Jct w/ 35-7-28.0 and 35-7-20.0 Road. Remove existing berm and reconstruct earthen berm upon completion of timber operations. Begin road renovation which includes blading, roadside brushing. Remove waterbars and replace as soon as possible after timber operations.
0.20	End Renovation.

ROAD SPECIFICATIONS

GENERAL – 100

101 - Pework Conference(s):

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

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

102 - Definitions:

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.

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Sale Name: Taylor Hazard T.S.

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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

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Sale Name: Taylor Hazard T.S.

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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.

Exhibit C8

Sale Name: Taylor Hazard T.S.

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

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

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

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

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

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

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

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

102a - Tests Used in These Specifications:

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

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

AASHTO T 89 Liquid limit of material passing the No. 40 sieve. Water content at which the soil passes from a plastic to a liquid state.

AASHTO T 90 Plastic limits and plasticity index of soil.
a. Plastic limit - lowest water content at which the soil remains plastic.
b. Plasticity index - range of water content, within which the material is in a plastic state. Numerical difference between the liquid and plastic limits of the soil.

AASHTO T 96 Resistance to abrasion of small size coarse aggregate by use of the Los Angeles machine.

AASHTO T 99 Relationship between soil moisture and maximum density of soil.
Method A - 4" mold, soil passing a No. 4 Sieve.
25 blows/layer & 3 layers.
Method D - 6" mold, soil passing a 19.00mm (3/4 inches) sieve. 56 blows/layer & 5 layers.

AASHTO T 176 Shows relative portions of fine dust or claylike materials in soil or graded aggregate.

AASHTO T 180 (OSHD 106-71) moisture density relationship of soil same as AASHTO T 99

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proctor but uses a 10-lb rammer & 18-inch drop.

- AASHTO T 191 Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.
- AASHTO T 205 Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.
- AASHTO T 210 Durability of aggregates based on resistance to produce fines.
- AASHTO T 224 Correction for coarse particles in the soil.
- AASHTO T 310 Determination of density of soil and soil-aggregates in place by nuclear methods.
- AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.
- ASTM D 4564 Determination of relative density of cohesionless soils.

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

103 - Compaction equipment shall meet the following requirements:

103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

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

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

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.
- 202 - Where clearing limits have not been posted, established by these specifications or shown on the plans, the limits shall extend 5 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 202a - Where clearing limits for structures have not been staked, the limits shall extend 10 feet out from the outside edge of the structure.

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- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202 and 202a.
- 203b - Standing trees and snags to be cleared shall be felled within the limits established for clearing, unless otherwise authorized.
- 203c - Disposal of logs from private timber cleared within the limits established shall consist of decking at a location designated by the Authorized Officer.
- 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 204c and 204e. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.
- 204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 204e - Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections. Such debris will, however, be permitted to remain under waste material from full-bench construction on steep side slopes.
- 206 - Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210 and as shown on the plans.
- 206a - Notwithstanding Subsections 204 and 205, clearing and grubbing debris resulting from landing construction as shown on Exhibit A, shall be placed at disposal sites and shall not be covered with excavated material. Location of disposal sites are shown and listed on the plans and/or determined by the Authorized Officer.
- 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 3 feet in length, and shall be distributed in thin layers throughout those embankment portions which are 3 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.
- 210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- 210a - Disposal of clearing and grubbing debris on non-government property by scattering and/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.

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

EXCAVATION AND EMBANKMENT - 300

- 301 - This work shall consist of excavating; overhaul, placement of embankments, backfilling, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the typical cross sections shown on the plans.
- 302 - Excavation shall also consist of the excavation of road, temporary route, turnaround area, and landing cut sections, backfilling, leveling, grading, compaction, and other earth moving work necessary for the construction of the roadway and temporary route in accordance with these specifications and conforming to the typical cross sections shown on the plans.
- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.
- 305 - Embankment construction shall consist of the placement of excavated materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway, temporary routes, turnaround areas, and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b - Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway and temporary route embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth for each lift.
- 305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 18 inches in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- 306a - Minimum compaction for each layer of temporary route embankment and selected excavation material placed at optimum moisture shall be 1 hour of continuous compacting for each 4 stations of road, or fraction thereof.

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- 306c - Compacted roadway materials shall have a uniform density of not less than 85 percent of the maximum density as determined by AASHTO T 99, Method A or Method D.
- 306e - The final roadway subgrade and turnaround areas shall be compacted to full width with compacting equipment conforming to the requirements of Subsections 103f, 103g, and 103i. Minimum compaction shall be 1 hour of continuous compacting for each 6 stations of road or a fraction of as measured along the center line of the constructed road.
- 306g - All fill slopes shall be compacted to 85% of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 309 - The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than 1 foot and not more than 3 feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.
- 314 - When heavy clays, muck, clay shale, or other deleterious material for forming the temporary route roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected excavated material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306g. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be end dumped and disposed of as directed by the Authorized Officer.
- 321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 328 - The Purchaser shall adopt methods and procedures in using explosives, which will prevent damage to adjacent landscape features, and which will minimize scattering rocks and other debris outside the road prism.
- 328a - The Purchaser shall establish and be responsible for blasting techniques and shall furnish the Authorized Officer, prior to starting drilling operations, a blasting plan specifying drill-hole diameter, drill-hole spacing, depth of drilling, type of explosive to be used, loading pattern, sequence of firing, the location where the plan is to be used, and other relevant data. Acceptance of the drilling and blasting plan does not relieve the Purchaser of responsibility

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or liability for the results of the blasting.

RENOVATION OF EXISTING ROADS - 500

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

Road No.	From M.P.	To M.P.
35-7-15.2	0.00	0.40
35-7-20.0	0.00	0.86
35-7-22.1	0.00	0.54
35-7-27.0	1.20	5.86
35-7-27.3	0.00	3.56
35-7-28.0	0.00	1.60
35-7-29.0	0.00	0.95
35-7-29.1	0.00	0.25
35-7-29.2	0.00	0.09
35-7-33.1	0.00	3.11

- 502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 503 - Debris from slides/slumps shall be disposed of at approved locations as directed by the Authorized Officer.
- 504 - 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.
- 504a - Minimum compaction required shall be 1 hour of continuous rolling for each 4 stations of road, or fraction thereof, as measured along the centerline per layer of material.

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- 506 - The inlet end of all existing drainage structures shall be cleared of vegetative debris and boulders that obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of all pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- 508 - Vegetation within the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- 509 - The finished grading shall be approved in writing by the Authorized Officer 2 days prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

WATERING - 600

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

EROSION CONTROL – 1700

- 1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical details shown on the plans.
- 1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.
- 1711 - The Purchaser shall construct sediment check dams or other approved erosion control devices conforming to the requirements, locations, and details shown on the respective exhibits and on the plans.

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SOIL STABILIZATION – 1800

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

From: September 15 th	To: November 15 th
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If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas and then complete the requirements of Soil Stabilization 1800 the next construction season.

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

- 1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.
- 1804 - The BLM shall provide native grass/forb seed or other plant materials (plugs, waddles, bulbs, etc.) for this project.
- 1806a - Additional soil stabilization work consisting of seeding and mulching may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Section 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Cost Schedule.
- 1808 - Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.
- 1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- 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

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- 1811 - The Purchaser shall apply to the areas designated for treatment as specified under Subsections 1802a and 1806a, Government furnished native grass seed and Purchaser furnished mulch material at the following “Two Stage Dry” rate of application:

Native Grass Seed	10 lbs./acre
Mulch (weed free)	2,000 lbs./acre

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

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

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

- 1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.
- 1815 - The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.
- 1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, 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.
- 1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- 1824 - Twine, rope, sacks, and other debris resulting from the soil-stabilization operations shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

- 2101 - This work shall consist of the removal of vegetation from the road prism - variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.

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- 2102 - Roadside brushing shall be performed manually with hand tools, including chain saws.
- 2103 - Vegetation cut less than 6 inches in diameter when measured at DBH shall be cut to a maximum height of 1 inch above the ground surface or above obstructions such as rocks or stumps on cut and fill sloped and all limbs below the 1 inch area will be severed from the trunk.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 1 inch above the ground and running surface. Limbs below the 1 inch area will be severed from the trunk. **Sharp pointed ends will not be permitted within road surface, including shoulders and turnout areas. Cuts shall be parallel to the ground line or running surface.**
- 2104 - Trees in excess of 6 inches in diameter at DBH shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 14 feet above the running surface of the roadway on cut and fill slopes, within the road prism-variable distance. Limbs shall be cut to within 1 inch of the trunk to produce a smooth vertical face. Removal of trees larger than 6 inches in diameter for sight distance or safety may be directed by the Authorized Officer.
- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 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.
- 2117 - Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the current version of the Manual on Uniform Traffic Devices.

ROAD MAINTENANCE SPECIFICATIONS

General road maintenance specifications are designated by numeric symbols according to the type of work performed as follows:

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

GENERAL - 3000

- 3001 - The Purchaser shall be required to maintain all roads listed and/or as shown in Exhibit D2 of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400, and 3500 of this exhibit.
- 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.
- 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.
- 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 in accordance with Section 2100 of Exhibit C.

- 3108 - The Purchaser shall avoid fouling gravel or bituminous surfaces. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.

- 3108a - The Purchaser shall perform logging operations on gravel roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish gravel for necessary repairs at designated locations. Repair of the road(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 1st of each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.

- 3203 - The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.

- 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 Section 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

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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 Section 16(b), Special Provisions, and Sections 3000, 3100, 3200 and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

- 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.

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

- 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 the contract provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.

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

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

- 3405b - The Purchaser shall notify affected residents along the roads to be treated of the planned application of lignin sulfonate or magnesium chloride dust palliatives at least 3 days prior to the work by posting warning signs at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within thirty days of treatment.
- 3406 - Prior to the application of lignin sulfonate or magnesium chloride dust palliative, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must be visibly moist and drying.
- 3406b - A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.
- 3406c - The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.
- 3407 - The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the lignin sulfonate or magnesium chloride dust palliative material requirements specified under Subsection 3412b and 3412c. Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60°F, percent solids by mass, and PH.
- 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 palliative shall only be applied when the atmospheric temperature is 45°F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.
- 3412 - The Purchaser shall apply to the prepared roadbed, a lignin sulfonate or magnesium chloride dust palliative conforming to the material requirements of Subsection 3412b and 3412c. The rate of application shall be 0.5 gallons per yd² surface. A second application at the rate of 0.3 gallons per yd² shall be applied at a time designated by the Authorized Officer.

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

Exhibit D1

Sale Name: Taylor Hazard

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- 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
cadmium	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

Exhibit D1

Sale Name: Taylor Hazard

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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:

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

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

DECOMMISSIONING – 3500

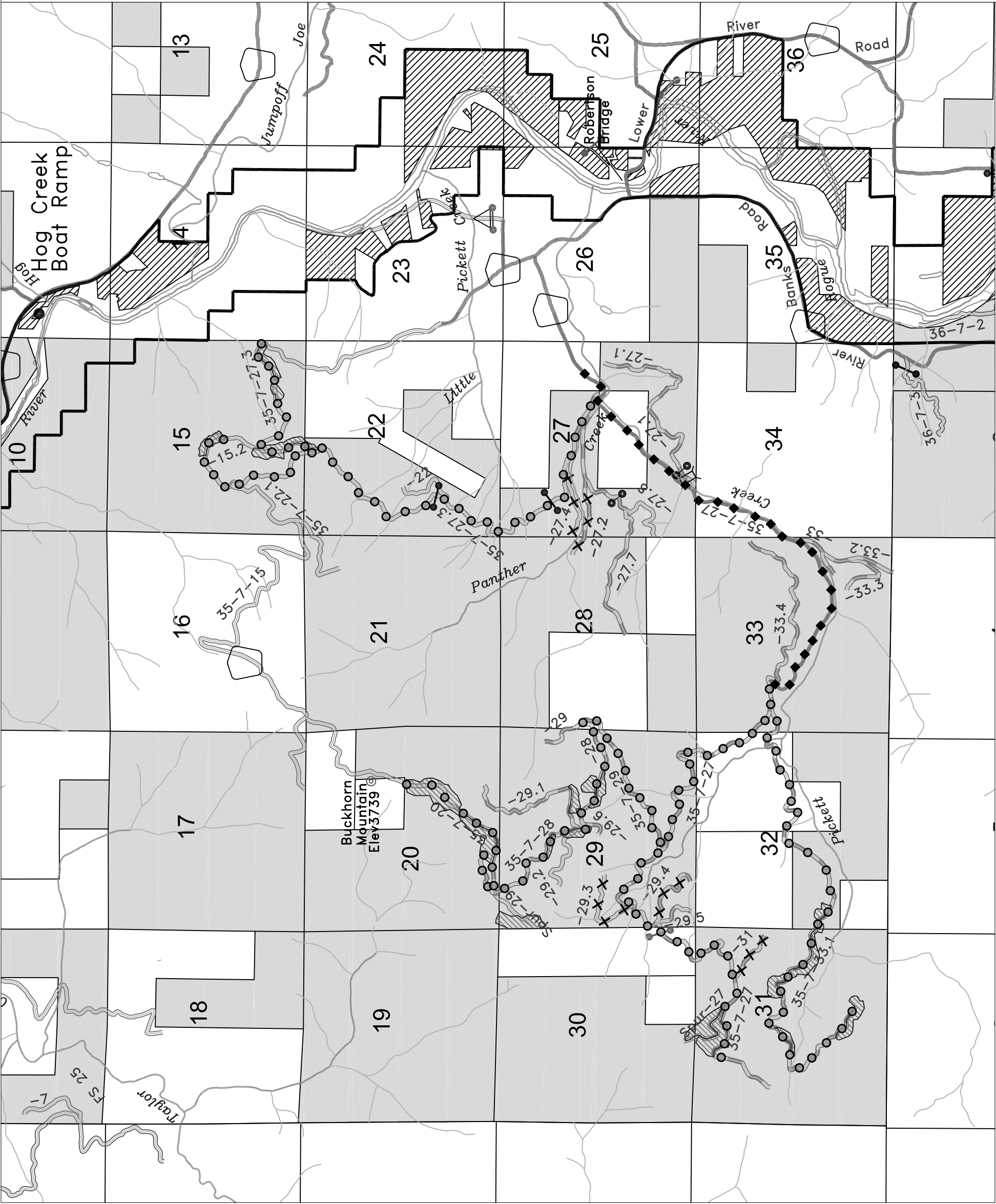
- 3501 - Decommissioning shall consist of removing draw crossings by excavating fill material. Work includes ripping, installing water bars, placement of slash and placement of soil stabilization material, and blocking road from access by vehicles.
- 3503 Decommissioning shall be performed on all temporary routes in accordance with these specifications.
- 3504 - Decommissioning work shall be completed after timber extraction, logging activities, and after road use.
- 3505- Where draw crossing fill material is to be excavated and removed, the finished bottom of draw profile shall be re-established to its original channel grade and resulting adjacent banks shall be re-established to their original backslope ratios.
- 3506 - Stockpiled slash shall be used to protect exposed areas created by the Purchaser's decommissioning operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. All slash stockpiles created by the purchaser shall be utilized for decommissioning operations. Where slash is not available or no longer remaining, exposed soil areas shall be stabilized in accordance with section 1800 – Soil Stabilization.
- 3508 - Protect areas mulched and treated with slash placement from damage by Purchaser traffic or construction equipment. Damaged areas shall be repaired by the Purchaser.
- 3509 - Access shall be blocked with barricades as shown on the typical detail sheet and at locations listed on Exhibit C6-1.
- 3511 - Ripping and water barring shall be done on all temporary routes, disturbed areas, and landings.

Exhibit D1

Sale Name: Taylor Hazard



Page **8** of **8**

- 3512 - Draw crossing fill material shall be excavated and placed in designated locations for use in accomplishing partial recontouring. Placement of materials shall produce well-drained, uniform recontoured terrain.
- 3513 - Water bars shall be installed across full width of temporary routes. Water bars shall be constructed as shown on Exhibit C6-1.
- 3514 - Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with section 1800 on temporary routes, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's decommissioning operations in accordance with these specifications and as shown in the plans.






TAYLOR CREEK HAZARD
ROAD LOCATION MAP
EXHIBIT D-2; PAGE1 OF 1

U.S.D.I. BLM MEDFORD DISTRICT
T.35S., R.7W. WILL. MER.

- 



EXISTING GATE

EXISTING BARRICADE
- ROAD PROJECTS





EXISTING ROAD

EXISTING PAVED ROAD

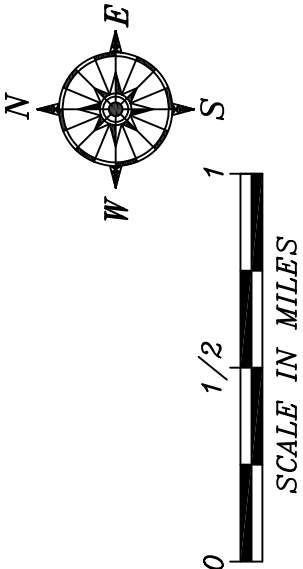
EXISTING PRIMITIVE ROAD
- 

OPERATOR MAINTENANCE

BLM MAINTENANCE
- 

BLM LAND

TS UNITS



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.133

Updated: 6/14/2017

Summary of All Roads and Projects

T.S. Contract Name: Taylor Hazard Tract No: ORM07-TS-19-20 Sale Date:
Prepared by: R Bryan Ph: 2477 Print Date: 5/9/2019 5:54:58 PM
Construction: 0.00 sta
Improve: 0.00 sta Renov: 845.86 sta Decom: 0.00 sta Temp: 21.65 sta

200 Clearing and Grubbing: 0.0 acres	\$0.00
300 Excavation:	\$0.00
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$26,091.47
Blading 16.43 mi	
700-1200 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:	\$8,026.66
Manual Brushing: 15.3 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$8,593.74
Mobilization: Const. \$3,726.70 Surf. \$0.00.....	\$3,726.70
Quarry Development:	\$0.00

Total: 2,676 mbf @ \$17.354/mbf = \$46,438.56

Notes:

Quantities shown are estimates only and not pay items.
Surfacing Quantities are loose cubic yards.

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-15.2 Road Name:

Road Renovation: 0.40 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$633.13
Blading 0.40 mi	
700-1200 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 (Manual):0.4 acres	\$132.67
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$66.82 Surf. \$0.00.....	\$66.82
Quarry Development:	\$0.00
Total:	\$832.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-15.2 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.40 mi = \$277.80

Compaction: \$325.47/mi x 0.40 mi = \$130.19

Clean Culverts: \$365.82/mi x 0.40 mi = \$146.33

Water for Compaction

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

Subtotal: \$633.13

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 0.40 acres = \$132.67

Subtotal: \$132.67

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 - 1.79% of total Costs = \$66.82

surfacing = 0% \$0.00

Subtotal: \$66.82

Quarry Development:

Road Number: 35-7-15.2 Continued

Subtotal: \$0.00

Total: \$832.62

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-20.0 Road Name: Pickett Crk D spur

Road Renovation: 0.86 mi 16 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$806.39
Blading 0.86 mi	
700-1200 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 (Manual):0.8 acres	\$265.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$853.60
Mobilization: Const. \$167.99 Surf. \$0.00.....	\$167.99
Quarry Development:	\$0.00

Total: \$2,093.32

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-20.0 Road Name: Pickett Crk D spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$428.91/\text{mi} \times 0.86 \text{ mi} = \368.86

Compaction: $\$325.47/\text{mi} \times 0.86 \text{ mi} = \279.90

Water for compaction

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

Subtotal: \$806.39

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $\$331.68/\text{acre} \times 0.80 \text{ acres} = \265.34

Subtotal: \$265.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Reconstruct Truck Turnaround

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

Backhoe 2 hr x $\$85.84/\text{hr} = \171.68

Place 20 cy rock in low spot

Place blade and compact 20 cy x $\$20.00/\text{cy} = \400.00

Subtotal: \$853.60

Mobilization:

Construction - 4.51% of total Costs = \$167.99

Road Number: 35-7-20.0 Pickett Crk D spur Continued

surfacing = 0% \$0.00

Subtotal: \$167.99

Quarry Development:

Subtotal: \$0.00

Total: \$2,093.32

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-22.1 Road Name:

Road Renovation: 0.54 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$827.14
Blading 0.54 mi	
700-1200 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 (Manual):0.5 acres	\$165.84
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$86.64 Surf. \$0.00.....	\$86.64
Quarry Development:	\$0.00

Total: \$1,079.62

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-22.1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.54 mi = \$375.03

Compaction: \$325.47/mi x 0.54 mi = \$175.75

Clean Culverts: \$365.82/mi x 0.54 mi = \$197.54

Water for Compaction

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

Subtotal: \$827.14

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 0.50 acres = \$165.84

Subtotal: \$165.84

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 - 2.32% of total Costs = \$86.64

surfacing = 0% \$0.00

Subtotal: \$86.64

Quarry Development:

Road Number: 35-7-22.1 Continued

Subtotal: \$0.00

Total: \$1,079.62

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-27.0 Road Name: W pickett Crk

Road Renovation: 4.66 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$7,088.26
Blading 4.66 mi	
700-1200 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 (Manual):4.5 acres	\$1,791.07
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$774.74 Surf. \$0.00.....	\$774.74
Quarry Development:	\$0.00
Total:	\$9,654.07

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-27.0 Road Name: W pickett Crk

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 4.66 mi = \$3,236.37

Compaction: \$325.47/mi x 4.66 mi = \$1,516.69

Clean Culverts: \$365.82/mi x 4.66 mi = \$1,704.72

Water for compaction

Water Truck 3000 Gal 8 hr x \$78.81/hr = \$630.48

Subtotal: \$7,088.26

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 4.20 acres = \$1,393.06

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

Subtotal: \$1,791.07

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 - 20.79% of total Costs = \$774.74

surfacing = 0% \$0.00

Subtotal: \$774.74

Road Number: 35-7-27.0 W pickett Crk Continued

Quarry Development:

Subtotal: \$0.00

Total: \$9,654.07

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-27.3 Road Name: Little Pickett PL

Road Renovation: 3.56 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$7,209.91
Blading 3.56 mi	
700-1200 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 (Manual):2.9 acres	\$961.87
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$3,621.62
Mobilization: Const. \$1,029.00 Surf. \$0.00.....	\$1,029.00
Quarry Development:	\$0.00
Total:	\$12,822.40

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-27.3 Road Name: Little Pickett PL

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 2.41 mi = \$1,673.75

Blading w/o Ditches: \$428.91/mi x 1.15 mi = \$493.25

Compaction: \$325.47/mi x 3.56 mi = \$1,158.67

Clean Culverts: \$365.82/mi x 2.41 mi = \$881.63

Water for Compaction

Water Truck 3000 Gal 6 hr x \$78.81/hr = \$472.86

Renovate subgrade 2.41 - 2.76

Tractor: D7 with rippers 16 hr x \$158.11/hr = \$2,529.76

Subtotal: \$7,209.91

Section 700-1200 Surfacing:
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:
Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 2.90 acres = \$961.87

Subtotal: \$961.87

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Place 20 CY rock in low spot

Place blade and compact 20 CY x \$20.00/CY = \$400.00

Remove slide mp 0.83

Dump Truck 10 cy 2 hr x \$74.45/hr = \$148.90

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

Road Number: 35-7-27.3 Little Pickett PL Continued

Remove material mp 1.88

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

Remove Slide mp 2.41

Dump Truck 10 cy 8 hr x \$74.45/hr = \$595.60

Excavator -Small (1.5 CY) 8 hr x \$98.12/hr = \$784.96

Remove Slide Material mp 2.74

Excavator -Small (1.5 CY) 8 hr x \$98.12/hr = \$784.96

Motor Grader 14M 4 hr x \$140.96/hr = \$563.84

Subtotal: \$3,621.62

Mobilization:

Construction - 27.61% of total Costs = \$1,029.00

surfacing = 0% \$0.00

Subtotal: \$1,029.00

Quarry Development:

Subtotal: \$0.00

Total: \$12,822.40

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-28.0 Road Name: Buckhorn mtn B Spur

Road Renovation: 1.60 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$2,453.69
Blading 1.60 mi	
700-1200 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 (Manual):1.6 acres	\$530.69
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,182.82
Mobilization: Const. \$363.60 Surf. \$0.00.....	\$363.60
Quarry Development:	\$0.00
Total:	\$4,530.80

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-28.0 Road Name: Buckhorn mtn B Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 1.60 mi = \$1,111.20

Compaction: \$325.47/mi x 1.60 mi = \$520.75

Clean Culverts: \$365.82/mi x 1.60 mi = \$585.31

water for compaction

Water Truck 3000 Gal 3 hr x \$78.81/hr = \$236.43

Subtotal: \$2,453.69

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 1.60 acres = \$530.69

Subtotal: \$530.69

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Repair Slump mp 1.29

Backhoe 3 hr x \$85.84/hr = \$257.52

Dump Truck 10 cy 6 hr x \$74.45/hr = \$446.70

furnish 5 yards of rock 5 CY x \$5.00/CY = \$25.00

Reconstruct Truck Turnaround

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

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

Subtotal: \$1,182.82

Road Number: 35-7-28.0 Buckhorn mtn B Spur Continued

Mobilization:

Construction - 9.76% of total Costs = \$363.60
surfacing = 0% \$0.00

Subtotal: \$363.60

Quarry Development:

Subtotal: \$0.00

Total: \$4,530.80

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-29.0 Road Name: Buckhorn mtn

Road Renovation: 0.95 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$1,474.12
Blading 0.95 mi	
700-1200 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 (Manual):0.9 acres	\$298.51
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$154.67 Surf. \$0.00.....	\$154.67
Quarry Development:	\$0.00
Total:	\$1,927.30

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-29.0 Road Name: Buckhorn mtn

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: \$694.50/mi x 0.95 mi = \$659.78

Compaction: \$325.47/mi x 0.95 mi = \$309.20

Clean Culverts: \$365.82/mi x 0.95 mi = \$347.53

Water for compaction

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

Subtotal: \$1,474.12

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: \$331.68/acre x 0.90 acres = \$298.51

Subtotal: \$298.51

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 - 4.15% of total Costs = \$154.67

surfacing = 0% \$0.00

Subtotal: \$154.67

Quarry Development:

Road Number: 35-7-29.0 Buckhorn mtn Continued

Subtotal: \$0.00

Total: \$1,927.30

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-29.1 Road Name: Buckhorn mtn Bl

Road Renovation: 0.25 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$425.26
Blading 0.25 mi	
700-1200 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 (Manual):0.2 acres	\$132.67
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$88.26 Surf. \$0.00.....	\$88.26
Quarry Development:	\$0.00

Total: \$1,099.79

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-29.1 Road Name: Buckhorn mtn B1

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$694.50/\text{mi} \times 0.25 \text{ mi} = \173.63

Compaction: $\$325.47/\text{mi} \times 0.25 \text{ mi} = \81.37

Clean Culverts: $\$365.82/\text{mi} \times 0.25 \text{ mi} = \91.46

Water for compaction

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

Subtotal: \$425.26

Section 700-1200 Surfacing:

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:

Manual Brushing

RoadSide Brushing Medium: $\$663.36/\text{acre} \times 0.20 \text{ acres} = \132.67

Subtotal: \$132.67

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Reconstruct Truck turnaround

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

Backhoe 2 hr x $\$85.84/\text{hr} = \171.68

Subtotal: \$453.60

Mobilization:

Construction - 2.37% of total Costs = \$88.26

surfacing = 0% \$0.00

Subtotal: \$88.26

Road Number: 35-7-29.1 Buckhorn mtn B1 Continued

Quarry Development:

Subtotal: \$0.00

Total: \$1,099.79

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-29.2 Road Name: Buckhorn mtn B3 spur

Road Renovation: 0.09 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$146.70
Blading 0.09 mi	
700-1200 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 (Manual):0.1 acres	\$132.67
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$63.95 Surf. \$0.00.....	\$63.95
Quarry Development:	\$0.00
Total:	\$796.93

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-29.2 Road Name: Buckhorn mtn B3 spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$428.91/\text{mi} \times 0.09 \text{ mi} = \38.60

Compaction: $\$325.47/\text{mi} \times 0.09 \text{ mi} = \29.29

Water for compaction

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

Subtotal: \$146.70

Section 700-1200 Surfacing:

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:

Manual Brushing

RoadSide Brushing Heavy: $\$1326.72/\text{acre} \times 0.10 \text{ acres} = \132.67

Subtotal: \$132.67

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Truck Turnaround

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

Backhoe 2 hr x $\$85.84/\text{hr} = \171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.72% of total Costs = \$63.95

surfacing = 0% \$0.00

Subtotal: \$63.95

Road Number: 35-7-29.2 Buckhorn mtn B3 spur Continued

Quarry Development:

Subtotal: \$0.00

Total: \$796.93

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: 35-7-33.1 Road Name: W Pickett A Spur

Road Renovation: 3.11 mi 14 ft Subgrade 3 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$4,782.67
Blading 3.11 mi	
700-1200 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 (Manual):3.0 acres	\$3,482.64
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$1,476.78
Mobilization: Const. \$850.02 Surf. \$0.00.....	\$850.02
Quarry Development:	\$0.00
Total:	\$10,592.10

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: 35-7-33.1 Road Name: W Pickett A Spur

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading: $\$694.50/\text{mi} \times 3.11 \text{ mi} = \$2,159.90$

Compaction: $\$325.47/\text{mi} \times 3.11 \text{ mi} = \$1,012.21$

Clean Culverts: $\$365.82/\text{mi} \times 3.11 \text{ mi} = \$1,137.70$

Water for Compaction

Water Truck 3000 Gal 6 hr x $\$78.81/\text{hr} = \472.86

Subtotal: \$4,782.67

Section 700-1200 Surfacing:

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:

Manual Brushing

RoadSide Brushing Medium: $\$663.36/\text{acre} \times 0.75 \text{ acres} = \497.52

RoadSide Brushing Heavy: $\$1326.72/\text{acre} \times 2.25 \text{ acres} = \$2,985.12$

Subtotal: \$3,482.64

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Remove Slide mp 2.20

Backhoe 6 hr x $\$85.84/\text{hr} = \515.04

Dump Truck 10 cy 6 hr x $\$74.45/\text{hr} = \446.70

Remove Tree mp 2.54

Backhoe 1 hr x $\$85.84/\text{hr} = \85.84

Remove Tree mp 2.59

Backhoe 1 hr x $\$85.84/\text{hr} = \85.84

Remove Tree mp 2.61

Road Number: 35-7-33.1 W Pickett A Spur Continued

Backhoe 1 hr x \$85.84/hr = \$85.84
Remove Tree mp 2.66
Backhoe 1 hr x \$85.84/hr = \$85.84
Remove Tree mp 2.73
Backhoe 1 hr x \$85.84/hr = \$85.84
Remove Tree mp 2.75
Backhoe 1 hr x \$85.84/hr = \$85.84

Subtotal: \$1,476.78

Mobilization:

Construction - 22.81% of total Costs = \$850.02
surfacing = 0% \$0.00

Subtotal: \$850.02

Quarry Development:

Subtotal: \$0.00

Total: \$10,592.10

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: Spur 35-7-27.0 Road Name:

Temporary Road: 0.21 mi 16 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$158.42
Blading 0.21 mi	
700-1200 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 (Manual):0.2 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$453.60
Mobilization: Const. \$59.19 Surf. \$0.00.....	\$59.19
Quarry Development:	\$0.00
Total:	\$737.54

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Spur 35-7-27.0 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: $\$428.91/\text{mi} \times 0.21 \text{ mi} = \90.07

Compaction: $\$325.47/\text{mi} \times 0.21 \text{ mi} = \68.35

Subtotal: \$158.42

Section 700-1200 Surfacing:

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:

Manual Brushing

Brushing width Left: 4ft. Right: 4ft.

RoadSide Brushing Light: $\$331.68/\text{acre} \times 0.20 \text{ acres} = \66.34

Subtotal: \$66.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Construct Truck Turnaround

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

Backhoe 2 hr x $\$85.84/\text{hr} = \171.68

Subtotal: \$453.60

Mobilization:

Construction - 1.59% of total Costs = \$59.19

surfacing = 0% \$0.00

Subtotal: \$59.19

Quarry Development:

Road Number: Spur 35-7-27.0 Continued

Subtotal: \$0.00

Total: \$737.54

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number: Spur 35-7-29.0 Road Name:

Temporary Road: 0.20 mi 16 ft Subgrade 0 ft ditch

200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage:	\$0.00
Culvert: 0 lf	
DownSpout: 0 lf	
PolyPipe: 0 lf	
500 Renovation:	\$85.78
Blading 0.20 mi	
700-1200 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 (Manual):0.2 acres	\$66.34
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$98.12
Mobilization: Const. \$21.83 Surf. \$0.00.....	\$21.83
Quarry Development:	\$0.00
Total:	\$272.07

Notes:

Quantities shown are estimates only and not pay items.

Surfacing Quantities shown are loose cubic yards.

Road Construction Worksheet

Road Number: Spur 35-7-29.0 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Subtotal: \$0.00

Section 500 Renovation:

Blading w/o Ditches: \$428.91/mi x 0.20 mi = \$85.78

Subtotal: \$85.78

Section 700-1200 Surfacing:
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:

Manual Brushing

RoadSide Brushing Light: \$331.68/acre x 0.20 acres = \$66.34

Subtotal: \$66.34

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Remove Barricade

Excavator -Small (1.5 CY) 1 hr x \$98.12/hr = \$98.12

Subtotal: \$98.12

Mobilization:

Construction - 0.59% of total Costs = \$21.83

surfacing = 0% \$0.00

Subtotal: \$21.83

Quarry Development:

Subtotal: \$0.00

Total: \$272.07

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Taylor Hazard Sale Date:

Average Mobilization distance = 30 miles Factor = 0.70

Mobilization: Construction

Fire Equipment: 1 ea x (0.70 x \$74.00/ea + 30 mi x \$4.09/mi)= \$174.50
Graders-all: 1 ea x (0.70 x \$410.00/ea + 30 mi x \$14.10/mi)= \$710.00
Brush Cutter: 1 ea x (0.70 x \$410.00/ea) = \$287.00
Rollers & Comp: 1 ea x (0.70 x \$410.00/ea + 30 mi x \$21.70/mi)= \$938.00
RTBackhoes 24/30: 1 ea x (0.70 x \$305.00/ea + 30 mi x \$5.65/mi)= \$383.00
Dump Truck<=15cy: 1 ea x (0.70 x \$89.00/ea + 30 mi x \$3.72/mi)= \$173.90
Water Truck: 1 ea x (0.70 x \$95.00/ea + 30 mi x \$3.94/mi)= \$184.70
Excavators(Small): 1 ea x (0.70 x \$410.00/ea + 30 mi x \$19.62/mi)= \$875.60

Subtotal: \$3,726.70

Mobilization: Surfacing

Subtotal: \$0.00

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

T.S. Contract Name: Taylor Hazard Sale Date:

Road Number	Const	Improv	Renov	Decomm	Temp
35-7-15.2			21.12		
35-7-20.0			45.41		
35-7-22.1			28.51		
35-7-27.0			246.05		
35-7-27.3			187.97		
35-7-28.0			84.48		
35-7-29.0			50.16		
35-7-29.1			13.20		
35-7-29.2			4.75		
35-7-33.1			164.21		
Spur 35-7-27.0					11.09
Spur 35-7-29.0					10.56
Total Sta:			845.86		21.65

200 Clearing and Grubbing	Clearing acres
35-7-15.2	0.0
35-7-20.0	0.0
35-7-22.1	0.0
35-7-27.0	0.0
35-7-27.3	0.0
35-7-28.0	0.0
35-7-29.0	0.0
35-7-29.1	0.0
35-7-29.2	0.0
35-7-33.1	0.0
Spur 35-7-27.0	0.0
Spur 35-7-29.0	0.0
Totals:	0.0

300 Excavation	Excav LCY.s	Haul sta-yds	Haul yd-mi
Totals:	0	0	0

400 Drainage

Road Number	Culvert	Polypipe	Downspout
Total Drainage:			
Totals:			No Quantities

500 Renovation	Blade Miles	Slide cy
35-7-15.2	0.40	0
35-7-20.0	0.86	0
35-7-22.1	0.54	0
35-7-27.0	4.66	0

Continuation of Construction Quantities

35-7-27.3	3.56	0
35-7-28.0	1.60	0
35-7-29.0	0.95	0
35-7-29.1	0.25	0
35-7-29.2	0.09	0
35-7-33.1	3.11	0
Spur 35-7-27.0	0.21	0
Spur 35-7-29.0	0.20	0

Totals: 16.43 0

Renovate subgrade 2.41 - 2.76 35-7-27.3

Tractor: D7 with rippers	16 hr
Water for Compaction 35-7-15.2	
Water Truck 3000 Gal	1 hr
Water for compaction 35-7-29.2	
Water Truck 3000 Gal	1 hr
Water for Compaction 35-7-33.1	
Water Truck 3000 Gal	6 hr
Water for Compaction 35-7-22.1	
Water Truck 3000 Gal	1 hr
Water for Compaction 35-7-27.3	
Water Truck 3000 Gal	6 hr
water for compaction 35-7-28.0	
Water Truck 3000 Gal	3 hr
Water for compaction 35-7-29.0	
Water Truck 3000 Gal	2 hr
Water for compaction 35-7-29.1	
Water Truck 3000 Gal	1 hr
Water for compaction 35-7-20.0	
Water Truck 3000 Gal	2 hr
Water for compaction 35-7-27.0	
Water Truck 3000 Gal	8 hr

Surfacing (Loose Cubic Yards)

Note: Due to slight rounding differences between total LCY vs. subtotaled LCY,
Totals shown here may not be exactly as shown in the road summaries and worksheets.

1300 Geotextiles

Totals: No Quantities

1400 Slope Protection

Totals: 0 cy

Totals: 0

1800 Soil stabilization - acres

Dry W/O Mulch	Dry/with Mulch	Hydro Mulch
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Totals:	0.0	0.0	0.0
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1900 Cattleguards

Totals: No Quantities

2100 RoadSide Brushing

acres

Continuation of Construction Quantities

35-7-15.2 - Manual Brushing	0.4
35-7-20.0 - Manual Brushing	0.8
35-7-22.1 - Manual Brushing	0.5
35-7-27.0 - Manual Brushing	4.5
35-7-27.3 - Manual Brushing	2.9
35-7-28.0 - Manual Brushing	1.6
35-7-29.0 - Manual Brushing	0.9
35-7-29.1 - Manual Brushing	0.2
35-7-29.2 - Manual Brushing	0.1
35-7-33.1 - Manual Brushing	3.0
Spur 35-7-27.0 - Manual Brushing	0.2
Spur 35-7-29.0 - Manual Brushing	0.2

Totals:	<u>15.3</u>
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2300 Engineering	stations
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Totals:	<u>0.00</u>
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2400 Minor Concrete

Totals: No Quantities

2500 Gabions

Totals: No Quantities

8000 Miscellaneous

Construct Truck Turnaround	35-7-29.2	
Motor Grader 14M		2 hr
Backhoe		2 hr
Construct Truck Turnaround	Spur 35-7-27.0	
Motor Grader 14M		2 hr
Backhoe		2 hr
Place 20 cy rock in low spot	35-7-20.0	
Place blade and compact		20 cy
Place 20 CY rock in low spot	35-7-27.3	
Place blade and compact		20 CY
Reconstruct Truck turnaround	35-7-29.1	
Motor Grader 14M		2 hr
Backhoe		2 hr
Reconstruct Truck Turnaround	35-7-28.0	
Motor Grader 14M		2 hr
Backhoe		2 hr
Reconstruct Truck Turnaround	35-7-20.0	
Motor Grader 14M		2 hr
Backhoe		2 hr
Remove Barricade	Spur 35-7-29.0	
Excavator -Small (1.5 CY)		1 hr
Remove material mp 1.88	35-7-27.3	
Backhoe		2 hr
Remove Slide Material mp 2.74	35-7-27.3	
Excavator -Small (1.5 CY)		8 hr
Motor Grader 14M		4 hr
Remove slide mp 0.83	35-7-27.3	
Dump Truck 10 cy		2 hr
Backhoe		2 hr
Remove Slide mp 2.20	35-7-33.1	
Backhoe		6 hr
Dump Truck 10 cy		6 hr
Remove Slide mp 2.41	35-7-27.3	

Continuation of Construction Quantities

Dump Truck 10 cy	8 hr
Excavator -Small (1.5 CY)	8 hr
Remove Tree mp 2.54 35-7-33.1	
Backhoe	1 hr
Remove Tree mp 2.59 35-7-33.1	
Backhoe	1 hr
Remove Tree mp 2.61 35-7-33.1	
Backhoe	1 hr
Remove Tree mp 2.66 35-7-33.1	
Backhoe	1 hr
Remove Tree mp 2.73 35-7-33.1	
Backhoe	1 hr
Remove Tree mp 2.75 35-7-33.1	
Backhoe	1 hr
Repair Slump mp 1.29 35-7-28.0	
Backhoe	3 hr
Dump Truck 10 cy	6 hr
furnish 5 yards of rock	5 CY

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

- (1) R-1: The Purchaser shall construct, improve, renovate, and/or decommission all roads, structures, and temporary routes listed for use under this contract in accordance with the plans and specifications shown on Exhibits C and D, which is attached hereto and made a part hereof.
- (2) R-1a: Any required renovation of roads and structures shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.
- (3) R-1c: The Purchaser shall not commence work on road renovation and reconstruction until receipt of written notice to do so from the Authorized Officer. Work shall commence no later than 5 days after such notice, and shall be completed within 1 year after such notice.
- (4) R-2: The Purchaser is authorized to use the roads listed below and shown on Exhibits C and D for the removal of Government timber sold under the terms of this contract, provided that the Purchaser pay the required maintenance and rockwear obligations described in Section 42(B)(6). Any road listed on Exhibit C and D and requiring construction, improvement, or renovation in Exhibit C of this contract, shall be maintained by the Purchaser until receiving written acceptance of the construction, improvement, or renovation from the Contracting Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.

Road No. and Segment	Length in Miles	Road Control	Surface Type	Maintenance Responsibility
35-7-20.0	0.86	BLM	GRR	Purchaser
35-7-22.1	0.54	BLM	NAT	Purchaser
35-7-27.0(A-B)	1.20	BLM	BST	BLM
35-7-27.0(C-F)	4.66	BLM	ASC ^{1/}	Purchaser
35-7-27.3(A-B)	3.56	BLM	GRR/NAT	Purchaser
35-7-28.0(A-C)	1.60	BLM	ASC	Purchaser
35-7-29.0(A)	0.95	BLM	ASC ^{1/}	Purchaser
35-7-29.1	0.25	BLM	PRR	Purchaser
35-7-29.2	0.09	BLM	NAT	Purchaser
35-7-33.1	3.11	BLM	AGG	Purchaser
35-7-15.2	0.40	BLM	NAT	Purchaser
Spur 35-7-27	0.21	BLM	NAT	Purchaser
Spur 35-7-29	0.20	BLM	NAT	Purchaser
Total	17.63			

^{1/} Portions of ASC road were chipsealed in the past. Chipseal is highly damaged. All fees and usage of the road are reflective of the ASC surface.

- (6) R-2d: The Purchaser shall pay a road maintenance fee of **\$0.90 (ninety cents) per thousand board feet log scale per mile** for use of BLM road 35-7-27A-B and a rockwear fee of **\$0.60 (sixty cents) per thousand board feet log scale per mile** for the use of all other rocked roads. The total maintenance fee due shall be based upon volumes determined pursuant to Exhibit B 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 Authorized Officer shall establish an installment schedule of payment of the maintenance obligation. If it is determined by the Authorized Officer, after all merchantable timber has been cut and scaled, that the total maintenance payments made under this contract exceed the total maintenance (and rockwear) payment due, such excess shall be returned to the Purchaser after such determination is made.
- (7) R-2e: The Contracting Officer may at any time, by written notice, terminate the Purchaser's operator road maintenance obligations and require instead payment of current Bureau of Land Management road maintenance and rockwear fees for the particular surface type of the roads involved. These fees will be applied to the remaining contract volume on the sale area, as determined by the Authorized Officer, to be transported over the roads listed in Section 42(B)(5). If the total road maintenance and rockwear fee does not exceed five hundred and no/100 dollars (\$500.00), the Purchaser shall pay such amount in full prior to use of such roads. If the total road maintenance and rockwear fee exceeds five hundred and no/100 dollars (\$500.00), the Authorized Officer shall establish an installment schedule of payments of the maintenance and rockwear obligations.
- (8) R-2f: Except for road maintenance in accordance with Section 42(B)(5), the Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D, Road Maintenance Specifications, of this contract, which is attached hereto and made a part hereof.
- (9) R-3c: The Purchaser agrees that if they elect to use any other private road(s), 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.
- (10) R-4: The Purchaser shall be required to secure written approval to use vehicles or haul forest products and equipment over Government owned or controlled roads when such vehicles or equipment exceeds the maximum allowable weights or

dimensions established by the State for vehicles operating without a permit or if vehicles meet allowable non-permitted State vehicle weights, but the haul route crosses a structure or segment of road that is posted for reduced weights. The Purchaser agrees to abide by any special requirements included in said written approval.

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

Details shall include:

- A. Axle weights when fully loaded.
- B. Axle spacing.
- C. Transverse wheel spacing.
- D. Tire size.
- E. Outside width of vehicle.
- F. Operating speed.
- G. Frequency of use.
- H. Special features (e.g., running tracks, overhang loads, etc.).

The Purchaser shall be responsible for repair of any damage to roads or structures caused by the use of overweight or over-dimension vehicles or equipment: (1) without written approval; (2) in violation of the conditions of a written approval; or, (3) in a negligent manner.

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

- (11) R-5: Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures, or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Sale: Taylor Hazard
Sale Date:
Prep. By : R Bryan
Tract No: ORM07-TS-19-20

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

1.1) Road Use - Amortization: \$0.00/2676 MBF = \$0.00/MBF

Road Maintenance Obligation:

(2.1) BLM Maintenance	\$2,451.98
(2.2) BLM Rockwear	\$0.00
(5.1) Purchaser Maintenance Rockwear	\$7,268.65
Total Rockwear Payable to BLM	<u>\$7,268.65</u>
(3.1) 3rd Party Maintenance	\$0.00
(3.2) 3rd Party Rockwear	\$0.00
(4.1) Other Maintenance Payments	\$0.00
Total Maintenance Fee Obligation (2.1-5.1)	<u>\$9,720.63</u>

Purchaser Maintenance Allowances:

(5.2A) Move In	\$566.37
(5.2B) Culverts, Catch Basins, Downspouts	\$0.00
(5.2C) Grading, Ditching	\$1,389.00
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$1,970.25
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$2,400.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	<u>\$6,325.62</u>

(2.1-5.2G) Cost (\$9,720.63 + \$6,325.62) = \$16,046.25
Cost/MBF \$16,046.25 / 2676 MBF = \$6.00/MBF \$6.00/MBF

(5.2H) Decommissioning \$1,881.87

(5.2H) Cost/MBF \$1,881.87/2676 MBF = \$0.70/MBF

(2.1-5.2H) Cost (\$9,720.63 + \$6,325.62 + \$1,881.87) = \$17,928.12

Total Cost/MBF (Excluding Road Use) \$17,928.12/2676 MBF = \$6.70/MBF

1) Road Use Fees - Amortization

Details

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

Subtotal by agreement number

(1.1) Subtotal \$0.00

2) BLM Maintenance - Timber Haul

MAINTENANCE (2.1)					ROCKWEAR (2.2)			
Road Number	A Surf	Maint	Vol					
and Segment	N Type	Mi	x Fee x	MBF =	Maint	Fee x MBF =	Rkwear	
35-7-27.0	A BST	1.20	0.92	2221	\$2,451.98	0.00	2221	\$0.00

(2.1) Subtotal \$2,451.98

(2.2) Subtotal \$0.00

3) Third Party Maintenance and Rockwear

MAINTENANCE (3.1)					ROCKWEAR (3.2)			
Agrmnt	Surface	Road						
Number	Type	Number	Mi	x Fee x MBF =	Maint	Fee x MBF =	Rkwear	

Subtotal of maintenance fees by agreement number:

Subtotal of rockwear fees by agreement number:

(3.1) Subtotal

\$0.00

(3.2) Subtotal

\$0.00

4) Other Maintenance Payments - USFS or Others Perform Maintenance

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

(4.1) Subtotal \$0.00

5) Purchaser Maintenance - Rock Wear

TIMBER HAUL (5.1)

Road No	A	RkWear	Vol	Total
and Segment	N	Mi	x Fee x MBF =	RkWear
35-7-27.0	A	1.42	0.60	2221 \$1,892.29
35-7-27.0	A	1.25	0.60	1658 \$1,243.50
35-7-27.0	A	1.99	0.60	431 \$514.61
35-7-29.0	A	0.95	0.60	1227 \$699.39
35-7-28.0	A	0.70	0.60	1227 \$515.34
35-7-28.0	A	0.65	0.60	836 \$326.04
35-7-20.0	A	0.86	0.60	620 \$319.92
35-7-33.1	A	3.11	0.60	563 \$1,050.56
35-7-27.3	A	2.41	0.60	455 \$657.93
35-7-22.1	A	0.54	0.60	87 \$28.19
35-7-15.2	A	0.40	0.60	87 \$20.88
35-7-27.3	A	1.15	0.00	152 \$0.00

(5.1) Subtotal \$7,268.65

Purchaser Operational Maintenance

Move In

No	Move	Cost/	Dist	Sub-
----	------	-------	------	------

Equipment	Units	x in x	50 Mi	x Factor	= total
Motor Grader:	1	1	\$410.00	0.63	\$258.30
Back Hoe:	1	1	\$305.00	0.63	\$192.15
Loader:			\$410.00	0.63	\$0.00
Water Truck:	1	1	\$95.00	0.63	\$59.85
Dump Truck:	1	1	\$89.00	0.63	\$56.07
Excavator:			\$410.00	0.63	\$0.00
Roller:			\$410.00	0.63	\$0.00

(5.2A) Total \$566.37

Culvert Maintenance - Including Catch basins and Downpipes

Miles	x	Cost/Mi	= Subtotal
		\$365.82	\$0.00

(5.2B) Total \$0.00

Grading (Includes Ditches and Shoulders)

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

(5.2C) Total \$1,389.00

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

Type	No Slides	Hours	Equip	
Equipment	/Slumps	x Each	x Cost	= Subtotal
Grader:	0	0	\$140.96	\$0.00
Loader:	0	0	\$101.17	\$0.00
Backhoe:	0	0	\$85.84	\$0.00

(5.2D) Total \$0.00

Dust Palliative (Water)

Spreading Hours

No	Freq	Truck					
Miles	/	MPH	= Hours	x	Days	x	/Day = Hours
5.00	10	0.5	10	1	5		
Load & Haul =		2.0	10	1	20		
Total Hours =		25					

Truck Cost: \$78.81/Hr. x 25.0 Hours = \$1,970.25

(5.2E) Total \$1,970.25

Surface Repair (Aggregate)

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

(5.2F) Total \$0.00

Other

Fallen Timber Cutting:	0.0 Hours x \$0.00/Hour	= \$0.00
Brush Cutting/Tree Trimming:	0.0 Hours x \$0.00/Hour	= \$0.00
Oil/Asphalt Materials:	Lump Sum	= \$0.00
Signing for Dust Palliatives:	Lump Sum	= \$0.00
Construct 20 waterbars 27.3 rd	Lump Sum	= \$2,000.00
Barricade 27.3 rd	Lump Sum	= \$200.00
Barricade 29.0 SP	Lump Sum	= \$200.00
	Lump Sum	= \$0.00
	Lump Sum	= \$0.00

(5.2G) Total \$2,400.00

Decommissioning

Other Costs

Road Number	Cubic Yds Pullback Material	Qty Waterbars	Qty Earthen Barriers	= Total
Spur 35-7-29.0	(0x\$1.77)	+ (5x\$55.35)	+ (1x\$166.04)	= \$442.79
35-7-27.3	(0x\$1.77) +	(20x\$55.35)	+ (1x\$166.04)	= \$1,273.04
Spur 35-7-27.0	(0x\$1.77)	+ (0x\$55.35)	+ (1x\$166.04)	= \$166.04

(Other Cost) Total \$1,881.87

(5.2H) Decommissioning Total \$1,881.87

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Name of Bidder
Tract Number
Sale Name
Sale Notice <i>(dated)</i>
BLM District

DEPOSIT AND BID FOR: (Check One):

- ☐ **Timber and/or Other Wood Products or**
(Examples of Other Wood Products: biomass, firewood, posts, poles, etc...)
- ☐ **Vegetative Resources**
(Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc...)

<input type="checkbox"/> Sealed Bid for Sealed Bid Sale	<input type="checkbox"/> Written Bid for Oral Auction Sale
Time for opening sealed bids <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.	Sale commences <input type="checkbox"/> a.m. <input type="checkbox"/> p.m.
On <i>(date)</i> Place	On <i>(date)</i> Place

In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated Timber and/or Other Wood Products or Vegetative Resources on the tract specified above.

Required bid deposit is \$ _____ and is enclosed in the form of:

☐ cash ☐ money order ☐ cashier's check ☐ certified check ☐ bank draft

☐ bid bond of corporate surety on approved list of the United States Treasury ☐ guaranteed remittance approved by the authorized officer.

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

BID SCHEDULE – TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES

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
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
			X	=	X	=
TOTAL PURCHASE PRICE						

If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for taking may be less or more than total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on *(date)*

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

☐ Signature, if firm is individually owned

Name of firm *(type or print)*

☐ Signatures, if firm is a partnership or L.L.C.

Business address, include zip code *(type or print)*

☐ Corporation organized under the state laws of

(To be completed following oral bidding)

Signature of Authorized Corporate Signing Officer

I HEREBY confirm the above oral bid
By *(signature)*

Title

Date

Submit bid, in *duplicate*, 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 and/or Other Wood Products or
(1a) “Vegetative Resources ”
(2) Time bids are to be opened
(3) Legal description

NOTICES

The Privacy Act and the regulations in 43 CFR 2.223(d) require that you be furnished with the following information:

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

EFFECT OF NOT PROVIDING INFORMATION: Filing this deposit and bid information is necessary only when an individual wishes to participate in a sealed or auction bid sale for Timber and/or Other Wood Products or Vegetative Resources.

INSTRUCTIONS TO BIDDERS

1. **AUTHORITY** – Timber and/or Other Wood Products or Vegetative Resources, 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 and/or Other Wood Products or Vegetative Resources located on other 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 and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. **QUALIFICATIONS OF BIDDERS** – A bidder for sale of Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources are located.

3. **INSPECTION OF TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES** – Bidder is invited, urged, and cautioned to inspect the Timber and/or Other Wood Products or Vegetative Resources prior to submitting a bid. By executing the Timber and/or Other Wood Products or Vegetative Resources sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the Timber and/or Other Wood Products or Vegetative Resources and his opinion of its value.

4. **DISCLAIMER OF WARRANTY** – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or 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 and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

5. **BIDS** – Sealed or written bids for not less than the advertised appraised price, per Timber and/or Other Wood Products or Vegetative Resources must be submitted in duplicate to the District Manager who issued *Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources*, time bid is to be opened, tract number, and legal description of land on which Timber and/or Other Wood Products or Vegetative Resources are 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 and/or Other Wood Products or Vegetative Resources 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) **Timber and/or Other Wood Products or Vegetative Resources Sales** – For each product and species, bids shall specify (1) Bureau of Land Management estimated unit volume or quantity, (2) bidder’s price per unit and total value, and (3) bidder’s total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, the high bidder agrees to pay the Government for the Timber and/or Other Wood Products or Vegetative Resources designated for removal in accordance with the terms of the contract. Timber and/or Other Wood Products or Vegetative designated for taking may be less or more than total estimated volume or quantity shown above.

7. **BID DEPOSIT** – All bidders must make a deposit of not less than the amount specified in the *Timber and/or Other Wood Products or Vegetative Resources*

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 (*Applies To Timber Only*), or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.

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

9. **TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES SALE CONTRACTS** – To be executed by purchaser, has been prepared by Government, and may be examined in the District or Field Manager’s office.

10. **PERFORMANCE BOND** – (*Primarily Used For Timber Sales*)

(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 Contracting Officer.

(b) If purchaser elects to cut Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond increase. This increased amount of bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources cut in advance of payment.

11. **PAYMENT BOND**— (*Primarily Used For Timber Sales*)

If purchaser elects to (a) cut and remove Timber and/or Other Wood Products or Vegetative Resources, or (b) remove Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources covered by the bond. Payment bond shall be used to assure payment for Timber and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources 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 and/or Other Wood Products or Vegetative Resources Sale Contract*, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.

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

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

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

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

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

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