PROSPECTUS

LOCKED GATE

Sale Date: October 27, 2015

(1) Roseburg Sale No.: 2016.0007

Sale Name: Orb Weaver Douglas County, Oregon: O&C, PD: Oral Auction Bid Deposit Required: \$64,800.00

All timber designated for cutting on:

E½SE¼	Sec 20,	T. 28 S.,	R. 3 W.,	Willamette Meridian
SW1/4,W1/2SE1/4	Sec 21,	T. 28 S.,	R. 3 W.,	Willamette Meridian
SW1/4NW1/4, W1/2SW1/4	Sec. 28,	T. 28 S.,	R. 3 W.,	Willamette Meridian
SE1/4NE1/4, E1/2SE1/4	Sec. 29,	T. 28 S.,	R. 3 W.,	Willamette Meridian
Lots 3 & 4, NE1/4NE1/4, S1/2NE1/4, SE1/4NW1/4, N1/2SE1/4	Sec. 32,	T. 28 S.,	R. 3 W.,	Willamette Meridian
NW¼NW¼	Sec. 33,	T. 28 S.,	R. 3 W.,	Willamette Meridian
Lot 4	Sec. 4,	T. 29 S.,	R. 3 W.,	Willamette Meridian
Lots 8, 9, 10 & 15	Sec. 5,	T. 29 S.,	R. 3 W.,	Willamette Meridian
Lots 9, 10, 15, 16, 17, 18, 21 & 22	Sec. 9,	T. 29 S.,	R. 3 W.,	Willamette Meridian
SW1/4NE1/4, S1/2NW1/4, N1/2SW1/4, SE1/2SW1/2, NW1/4SE1/4	Sec. 15,	T. 29 S.,	R. 4 W.,	Willamette Meridian

Approx. Number	Est. Vol. MBF		Est. Vol. MBF	Appraised Price	Est. Volume Times
Merch. Trees	32' Log	Species	16' Log	Per MBF	Appraised Price
93,800	2,954	Douglas-fir	3,503	\$171.10	\$599,363.30
5,156	205	Grand Fir	254	\$59.10	\$15,011.40
5,472	181	Incense-cedar	235	\$91.40	\$21,479.00
1,491	33	Western Redcedar	38	\$255.40	\$9,705.20
869	24	Ponderosa Pine	30	\$32.20	* \$966.00
254	7	Western Hemlock	9	\$40.70	\$366.30
41	3	Sugar Pine	3	\$76.40	\$229.20
107,083	3,407		4,072		\$647,120.40

^{*} BLM appraised price per MBF is a minimum stumpage value.

THE VOLUMES LISTED herein are estimates only, based on 16-foot taper breaks, which must be taken into consideration if comparisons are made with volume predictions based on other standards. The volumes based on 32-foot taper breaks are shown for comparison purposes. No sale shall be made for less than the total purchase price, without regard to the amount bid per unit, even though quantity of timber actually cut or removed or designated for taking is more or less than the estimated volume or quantity so listed.

APPRAISED PRICES are determined by analytical appraisal methods unless otherwise noted on individual timber sale notices.

LOG EXPORT AND SUBSTITUTION RESTRICTIONS:

All timber sales, including timber from Federal rights-of-ways, shall be subject to the restrictions relating to the export and substitution of unprocessed timber from the United States in accordance with P.L. 94-165 and 43 CFR 5400 and 5424 as amended.

Excepting Port-Orford-cedar, all timber offered for sale hereunder 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.

CRUISE INFORMATION:

For all Harvest Areas the timber volumes for all tree species are based on a variable plot cruise, containing a total of 256 plots and 204 randomly selected sample trees. Plots were measured using a 20 basal area factor. (BAF).

The volume of the randomly selected sample trees has been expanded to a total sale volume. A map showing the location of the plots is available at the Roseburg District Office.

For all right-of-ways and road daylighting: The timber volumes for all tree species have been determined by individual tree measurements using a 100% cruise.

Timber Harvest Area acres have been adjusted to determine the sale volume by deducting all non-harvest acres, such as the No Harvest Stream Buffers and roads, from the Harvest Areas shown on Exhibit A (see volume summary sheet for acres used by unit).

With respect to merchantable trees of all species: the average tree is 12.2 D.B.H.O.B., the average log contains 41 bd. ft., the total gross volume is approximately 4,418 M bd. ft., and 92% recovery is expected.

<u>CUTTING AREA</u>: An area of approximately 306 acres is to be thinned and 4 acres of road right-of-way is to be clearcut. See Exhibit A for details.

TIMBER ACREAGE: Area 1: 49 acres Area 6: 51 acres Area 11: 30 acres Area 2: 23 acres Area 7: 22 acres Area 12: 19 acres Area 3: 26 acres Area 8: 16 acres RW: 4 acres

Area 4: 23 acres Area 9: 23 acres Area 5: 4 acres Area 10: 20 acres

<u>ACCESS</u>: Access to the sale area is provided by Government and County controlled roads.

LOCKED GATE: A locked gate is on Road No. 29-4-22.0. See BLM receptionist for key.

<u>DIRECTIONS TO SALE AREA</u>: From Myrtle Creek, proceed east on Douglas County Road 18 (South Myrtle Road) approximately 7 miles to Road No. 29-4-22.0, refer to timber sale Exhibits A and D for further details to timber sale units.

ROAD MAINTENANCE: Rockwear and maintenance fees of \$15,972.13 will be required to be paid to the BLM.

<u>ROAD CONSTRUCTION</u>: Estimates include the following: construct 52+50 stations, renovate 317+65 stations, and decommission 77+60 stations of road. Approximately 36 MBF is to be cut and removed in association with road renovation, daylighting; this timber volume will be included on the Exhibit B of the contract but no acres have been attributed to the road renovation. Additional information is available in the Exhibits C & D of the Timber Sale Contract.

<u>DURATION OF CONTRACT</u> will be 36 months for cutting and removal of timber. The contract contains SPECIAL PROVISIONS regarding: logging, environmental protection, road construction, road renovation, road use, road maintenance, fire protection, slash disposal, and log exporting. Log scaling may be required under the terms of this contract.

NOTES:

- 1. A revised Special Provision has been added to the contract which enables the Contracting Officer to suspend the contract to facilitate protection of certain plant or animal species, and/or to modify or terminate the contract when necessary to: (1) Comply with the Endangered Species Act, or; (2) Comply with a court order, or; (3) Protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP.
 - This contract provision limits the liability of the Government to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the Contract Area.
- 2. This contract contains provisions for the sale and removal of additional timber necessary to facilitate safe and efficient Purchaser operations. It is estimated that approximately 204 MBF of such additional timber may be removed under the contract, but is not included in the advertised sale volume nor was it included in the timber sale appraisal. This estimate is a net figure reduced by the estimate of the volume of trees previously marked for cutting, which the Authorized Officer may elect to reserve.
- 3. Seasonal operating restrictions apply to this sale regarding road work, falling, bucking, yarding, loading, hauling and sub-soiling. Refer to Section 42(A)(3-4), 42(A)(10)(b), 42(C)(4)(c), 42(D)(1-2)
- 4. Road No. 29-3-9.1 and Spur No. 3 will be constructed or renovated and used for harvest operations by October 15 of each calendar year, then decommissioned in the same respective operating season. The decommissioning may include water barring, slashing and blocking. Refer to Exhibit D for details. If an unsurfaced spur will overwinter before decommissioning, that spur shall be winterized. See Section 42(C)(3) for details.
- 5. Road No. 29-3-9.2, Spurs No. 1, No. 2, No. 4 and No. 5 will be decommissioned upon completion of timber harvest. The decommissioning may include water barring, slashing and blocking. Refer to Exhibit D for details.
- 6. In the Thinning Harvest Areas, as shown on Exhibit A, all trees designated for cutting shall be felled, limbed, and cut into log lengths not to exceed forty-two (42) feet before being yarded, unless otherwise approved by the Authorized Officer.
- 7. Hand piling and covering of slash is required in portions of Harvest Areas No. 2, 3 and 6, as shown on Exhibit E. Refer to Section 42(F)(2) for details.
- 8. Sub-soiling of approximately six tenths (0.6) mile of compacted skid trails and associated equipment/decking areas is required. Sub-soiling is to be completed once harvesting and machine piling operations are complete. Refer to Section 42(C)(4) for details.
- 9. Road daylighting is required as shown on Exhibit A. The road daylighting shall be completed in strict accordance with the plans and specifications shown on the Exhibit C. Any required road daylighting 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. Approximately 36 MBF is to be cut and removed in association with road renovation, daylighting; this timber volume will be included on the Exhibit B of the contract but no acres have been attributed to the road renovation. Additional information is available in the Exhibits C & D of the Timber Sale Contract.
- 10. The Purchaser will be responsible for repairing any damage, resulting from operations, to the existing fence lines along boundaries on portions of Harvest Areas No. 1, No. 3 & No. 4, as shown on the Exhibit A.

- 11. Before beginning operations on Harvest Areas No. 2 & No. 3 the Purchaser will contact PPL concerning the powerlines adjacent to the Harvest Areas.
- 12. Before beginning operations on Road No. 29-3-16.0 the Purchaser will contact CP National concerning the location of the underground cable, as shown on Exhibit A.
- 13. Seasonal Restrictions Matrix is attached for informational purposes only.

THIS IS A SALE PROSPECTUS ONLY. ATTACHMENTS MAY NOT INCLUDE ALL EXHIBITS REFERRED TO IN THE CONTRACT PROVISIONS. THE COMPLETE CONTRACT, INCLUDING ALL EXHIBITS, IS AVAILABLE FOR INSPECTION AT THE ROSEBURG DISTRICT OFFICE.

<u>Section 41.</u> TIMBER RESERVED FROM CUTTING - The following timber on the Contract Area is hereby reserved from cutting and removal under the terms of this contract and is retained as the property of the Government.

- (a) All timber on the Reserve Areas as shown on Exhibit A, all retention trees marked with orange paint above and below stump height within the cutting areas and all orange painted and posted trees which are on or mark the boundaries of the Reserve Areas.
- (b) All existing coarse woody debris, logs and trees classified as decay Classes 3, 4, and 5, bark substantially sloughed off and in advanced stages of decay, within the Harvest Areas as shown on Exhibit A.

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<u>Section 42.</u> The Purchaser shall comply with the special provisions which are attached hereto and made a part hereof, unless otherwise authorized in writing by the Authorized Officer.

Section 42(A) Logging:

- (1) Before beginning operations on the Contract Area for the first time or after a shutdown of ten (10) 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 they intend to cease operations for any period of ten (10) or more days.
- (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 assure 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 developed by this provision.
- (3) No timber falling, bucking or yarding shall be conducted on the Thinning Harvest Areas, shown on Exhibit A, from April 15 to July 15 of each calendar year, both days inclusive (bark slip period), unless otherwise approved by the Authorized Officer.
- (4) No timber yarding, loading or hauling shall be conducted on native surfaced roads between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive (wet season), unless otherwise approved by the Authorized Officer.
- (5) No yarding is permitted in or through the Reserve Areas or retention aggregates, as shown on Exhibit A, unless otherwise approved by the Authorized Officer. Trees felled in the retention aggregates to facilitate yarding shall be left in place, unless otherwise approved by the Authorized Officer.
- (6) Trees felled to facilitate yarding through the "no harvest stream buffers", as shown on Exhibit A, shall be left in place, unless otherwise approved by the Authorized Officer.
- (7) For a distance of fifty (50) feet from the perimeter of each landing designated by the Authorized Officer, all logs more than eight (8) inches in diameter at the large end and longer than eight (8) feet in length shall be decked or windrowed at the location designated by the Authorized Officer except logs sold and removed from the Contract Area.
- (8) In the Harvest Areas shown on Exhibit A, all trees designated for cutting which are within one hundred fifty (150) feet of the Reserve Areas, property lines, fences, powerlines and adjacent plantations shall be felled away from those areas.
- (9) In the Thinning Harvest Areas, as shown on Exhibit A, all trees designated for cutting shall be felled, limbed, and cut into log lengths not to exceed forty-two (42) feet before being yarded, unless otherwise approved by the Authorized Officer.

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(10) In the portions of Harvest Areas designated for ground-based yarding, as shown on Exhibit A (approximately 14 acres):

- (a) Ground-based yarding operations shall generally be limited to slopes of thirty-five (35) percent or less, and existing skid trails shall be utilized to the greatest extent possible.
- (b) No ground-based yarding shall be permitted between October 15 of one calendar year and July 15 of the following calendar year, both days inclusive, or other periods of unseasonably wet weather and soil moisture conditions, unless otherwise approved by the Authorized Officer.
- (c) A rubber-tired or track-mounted skidder may be used in accordance with the following specifications:
 - (1) The skidder shall be approved by the Authorized Officer prior to ground-based yarding operations.
 - (2) Yarding shall be done with one end of the log suspended.
 - (3) The skidder shall be restricted to designated skid trails. Skid trails shall be clearly identified on the ground, fourteen (14) feet or less in width and spaced at least one hundred fifty (150) feet apart. Designated skid trails, whether existing or newly proposed, shall be approved by the Authorized Officer prior to the felling of timber.
- (d) A track-mounted log loader, or shovel yarding system, may be used in accordance with the following specifications:
 - (1) The track-mounted log loader shall be approved by the Authorized Officer prior to ground-based yarding operations.
 - (2) The track-mounted log loader shall be restricted to designated skid trails and shall utilize the swing yarding method to the greatest extent practicable. The designated skid trail network shall minimize both the amount of ground covered by the tractor treads and the number of passes over any single spot on the ground. Designated skid trails, whether existing or newly proposed, shall be approved by the Authorized Officer prior to the felling of timber.
 - (3) The track-mounted log loader shall be required to place logging slash in front of the machine's tracks prior to traveling designated skid trails in order to reduce soil compaction.
- (e) A processor/harvester/forwarder system may be used in accordance with the following specifications:
 - (1) The processor/harvester shall be required to cut off limbs and tops in front of the machine's tracks in order to reduce soil compaction. The processor/harvester must have a lateral reach of twenty (20) feet or more, and the machine's lateral reach must be utilized as much as possible.

- (2) The forwarder shall operate only on designated skid trails approved by the Authorized Officer. Forwarder trails shall be located on existing skid trails and/or the slash-covered areas traversed by the processor/harvester. Forwarder trails shall be perpendicular to hill-slope contour lines as much as possible.
- (3) Logs that are too large for the harvester/forwarder operation may be yarded with a rubber-tired or track-mounted skidder, or a track-mounted log loader approved by the Authorized Officer, and as directed by the Authorized Officer. The skidder shall operate on designated skid trails approved by the Authorized Officer.
- (4) All trees yarded with a forwarder shall be felled, topped, limbed and cut into log lengths not to exceed twenty-one (21) feet before being yarded, unless approved by the Authorized Officer.
- (11) In the portions of Harvest Areas designated for cable yarding, as shown on Exhibit A:
 - (a) Yarding shall be done with a cable skyline system utilizing a mechanical slack-pulling carriage capable of maintaining a fixed position on the skyline while lateral yarding and having a lateral yarding capability of seventy-five (75) feet. The carriage must not move during in-haul. The cable yarder shall have a maximum tower height of fifty (50) feet and a maximum of two hundred fifty (250) horsepower. The system shall have the capability to yard in multi-span configuration.
 - (b) Wherever possible, cable yarding corridors shall be perpendicular to hill-slope contour lines, parallel to each other and spaced at least one hundred fifty (150) feet apart to minimize damage to reserve trees.
 - (c) Cable yarding of logs shall be done under the canopy and with one end suspended. Lift trees and/or intermediate support trees shall be employed where necessary to meet this requirement. All logs shall be yarded away from or parallel to "no harvest stream buffers" as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
 - (d) Prior to attaching any logging equipment to a reserve tree, the Purchaser shall obtain written approval from the Authorized Officer and shall take precautions to protect the tree from damage as directed in writing by the Authorized Officer.
- (12) Before cutting and removing any trees necessary to facilitate logging in the Harvest Areas shown on Exhibit A, the Purchaser shall identify the location of skid trails, cable yarding corridors, 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 trails or cable yarding corridors upon which timber is identified by the Purchaser to be cut and removed in accordance with this special provision must be necessary for the safe and expeditious removal of timber sold under this contract and shall be limited to the

minimum width necessary for yarding of logs with a minimum of damage to reserve trees, however, unless otherwise approved in writing by the Authorized Officer, the width of each skid trail shall be limited to fourteen (14) feet and each cable yarding corridor shall be limited to twenty (20) feet.

- (b) The Purchaser may immediately cut and remove additional timber to clear skid trails and cable yarding corridors; and provide tailhold, tieback, guyline, lift, and intermediate support trees; and clear danger trees when the trees have been marked with high visibility blue 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(f) 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 trees otherwise reserved in Section 41 of the contract or any tree that exceeds thirty-six (36) inches diameter at breast height shall be appraised and sold by bilateral modification of the contract at current fair market value in accordance with Section 8 of the contract.
- (d) This authorization for the Purchaser to cut and remove additional timber prior to the execution of a modification may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser has cut and removed any tree not previously marked and approved for cutting by the Authorized Officer, which under Section 10 of the contract constitutes a violation of the contract and under Section 13 of the contract may constitute a trespass rendering the Purchaser liable for damages under applicable law.
- (e) If authorization is withdrawn, the Contracting Officer shall issue a written notice to the Purchaser that the sale of additional timber under this special provision is no longer approved. In this case, the Purchaser shall inform the Authorized Officer at least one (1) working day prior to the need for cutting and removing any additional timber, and execute a bilateral modification prior to cutting for such additional 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 applying orange paint as replacements for additional trees cut and removed for skid trails and/or cable yarding corridors when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the

management prescription(s). 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.

- (13) In accordance with the requirements of Section 8 of the contract it has been determined that it is in the best interest of the Government and within the provisions of 43 CFR 5402.0-6 to sell additional timber located in the Contract Area, which is obstructing needed skid trails or cable yarding corridors, hazardous to workers, needed for guyline, tailhold, and tieback trees, severely damaged from the normal conduct of felling or yarding operations to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling or yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
 - (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives are not included in the authorization.
 - (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump and the bottom log immediately after falling with high visibility paint. The stump shall be marked by flagging the location of the stump with plastic fluorescent pink ribbon hung within five (5) feet of the stump at eye level so that the stump can be visually located from a distance of not less than one hundred (100) feet.
 - (c) The volume and price for such timber shall be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and paid for by the Purchaser in accordance with Section 3(b) or 3(f) of the contract as required by Section 8 of the contract.
 - (d) No timber may be cut or removed under the terms of this provision until all contract payments required by Section 3(b) or 3(f) of the contract have been made.
 - (e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:
 - (1) Failed to properly mark any stump with high visibility paint.
 - (2) Failed to identify the location of any stump.
 - (3) Cut any tree that was reserved for tree improvement and/or wildlife habitat.
 - (4) Cut any tree in or adjacent to cable yarding corridors that was not necessary to facilitate cable yarding.
 - (5) Cut any tree in or adjacent to skid trails that was not necessary to facilitate ground based varding.
 - (6) Failed to properly segregate any pulled over tree that was yarded to the landing.
 - (7) Cut any reserve tree that was not severely damaged from felling and yarding operations.

- (8) Cut more than the minimum number of trees necessary to properly serve as guyline anchor stumps.
- (9) Cut or topped more than the minimum number of trees necessary to properly serve as tailhold trees.
- (10) Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tailhold trees.
- (11) Failed to maintain accurate and current (no more than twenty-four (24) hours old) documentation of cut and removed timber.

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

If the permission to cut and remove additional timber provision is withdrawn, the Purchaser shall inform the Authorized Officer at least two (2) working days prior to the need for cutting and yarding any guyline tree, tailhold tree, tie-back tree, danger tree, and corridor tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

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

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

Section 42(B) Miscellaneous:

(1) 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 Three thousand fifty-four and 00/100 dollars (\$3,054.00). In the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of (\$3,054.00) which is equal to the percentage of timber sold which was actually scaled by the Government. For purposes of computing this price reduction, the percentage of timber sold which has been scaled shall be 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 Eastside

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Scribner Decimal C Rules 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.

Section 42(C) Environmental Protection:

- (1) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall clean road surfaces, cut banks, landings, ditch lines and culverts of all debris created by logging operations.
- (2) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall steam clean or pressure wash all logging and road building equipment, except logging trucks and crew transport, prior to initial move-in, to minimize the likelihood of introducing noxious weeds to the Contract Area. Equipment washing shall occur at a location approved by the Authorized Officer. Equipment will be visually inspected by the Authorized Officer prior to use. Any logging or road building equipment removed from the Contract Area during the duration of the contract must be steam cleaned or pressure washed before it is returned to the Contract Area. Cleaning shall be defined as removal of all dirt, grease, plant parts and material that may carry noxious weed seeds.
- (3) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall winterize all native surfaced roads constructed or renovated under Section 42(D)(1) or any portion thereof, in accordance with the plans and specifications shown on Exhibits C and D, which are attached hereto and made a part hereof, and in accordance with the following stipulations:
 - (a) The Purchaser intends to use the native surfaced roads or portions thereof for more than a single operating season; or, circumstances require that the native surfaced roads or portions thereof over-winter before decommissioning.
 - (b) Winterizing shall consist of water-barring, blocking and mulching to the satisfaction of the Authorized Officer.
 - (c) Winterizing shall take place at the end of the operating season as described in Section 42(D)(2) of this contract, or as directed by the Authorized Officer.
- (4) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall, upon completion of logging operations and machine piling and covering operations, perform sub-soiling operations on approximately six tenths (0.6) mile of compacted skid trails and associated equipment/decking areas, located in the ground-based portions of Harvest Areas, as shown on Exhibit A, and in accordance with the following stipulations:
 - (a) All sub-soiling equipment shall be inspected and approved by the Authorized Officer before sub-soiling operations begin.
 - (b) Slash and other organic debris, including some topsoil, will cover at least fifty (50) percent of the sub-soiled area, where levels of this material are in enough abundance. Water bars shall be constructed concurrently with sub-soiling operations on grades steeper than ten (10) percent, as directed by the Authorized Officer.

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- (c) Sub-soiling shall occur during the same dry season as ground-based harvesting, as described in Section (42)(A)(10)(b), and be accomplished prior to October 15, unless otherwise approved by the Authorized Officer.
- (d) The compacted surfaces of main skid trails and associated equipment/decking areas shall be sub-soiled (broken up, loosened and de-compacted) using excavator attachments, log loader tongs or other approved equipment.
- (e) Sub-soiling shall be completed to a minimum depth of eighteen (18) inches below the ground surface, unless otherwise approved by the Authorized Officer.
- (f) Treated areas shall span the total width of compaction, as identified by the Authorized Officer. At least eighty (80) percent of the compacted soil profile shall be shattered. No more than fifty (50) percent of the treated compacted soil shall have clods greater than two (2) inches in diameter, unless otherwise approved by the Authorized Officer.
- (g) Sub-soiling shall not occur within a five (5) foot radius of the boles of residual trees where major roots can be cut, mangled or pulled, unless otherwise directed by the Authorized Officer.
- (h) Equipment shall not be allowed to operate on slopes in excess of thirty-five (35) percent or to cross streams or drainages unless approved by the Authorized Officer. Examples to the thirty-five (35) percent exception include situations such as small inclusions of steeper slopes, connecting trails to isolated ground-based harvest areas, or the use of existing trails that could be used without causing undue effects to the soil.
- (5) The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
 - (a) threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
 - (b) when, in order to comply with the Endangered Species Act, the Contracting Officer determines it may be necessary to modify or terminate the contract, or;
 - (c) federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 Special Status Species Management have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
 - (d) other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or;
 - (e) when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;

(f) when, in order to comply with a court order, the Contracting Officer determines it may be necessary to modify or terminate the contract, or

- (g) species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the Record of Decision (ROD) and Resource Management Plan (RMP), and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Contracting Officer determines it may be necessary to modify or terminate the contract.

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

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

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

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

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

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

The Purchaser specifically and expressly waives any right to claim damages, other than those described in the preceding paragraph, based on an alleged breach of any duty to the Purchaser, whether express or implied, in regard to the manner in which the Government defended the litigation which resulted in the court order affecting the operation of the contract. This waiver also extends to any claims based on effects on the operation of the contract that arise from litigation against another agency. Furthermore, the Purchaser specifically acknowledges and agrees that a court ruling that the Government violated the Administrative Procedures Act cannot be interpreted, in itself, to mean that the Government had not acted reasonably in regard to its duties to the Purchaser under this contract.

Section 42(D) Road Construction - Maintenance – Use:

(1) The Purchaser shall construct and renovate, including daylighting as shown on the Exhibits A and C, all roads in strict accordance with the plans and specifications shown on Exhibit C. All native surfaced spurs and roads to be constructed or renovated shall be used for harvest operations by October 15 of each calendar year, then decommissioned in the same respective operating season. Decommissioning may include water barring, slashing, blocking and removal of culverts. Refer to Exhibit D for details. Any required construction or renovation, including daylighting, of structures and roads shall be completed and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.

(2) No road construction or renovation shall be conducted on the Contract Area between October 15 of one calendar year and May 15 of the following calendar year, both days inclusive (wet season), unless otherwise approved by the Authorized Officer.

- (3) The Purchaser is authorized to use the roads listed and shown on Exhibit D which are under the jurisdiction of the Bureau of Land Management 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(D)(4). Any road listed on Exhibit D and requiring improvement or renovation in Exhibit C of this contract shall be maintained by the Purchaser until receiving written acceptance of the improvement or renovation from the Authorized Officer. The Purchaser shall pay current Bureau of Land Management maintenance and rockwear fees for the sale of additional timber under modification to the contract.
- (4) The Purchaser shall pay the Government a road maintenance and rockwear obligation in the amount of Fifteen thousand nine hundred seventy-two and 13/100 dollars (\$15,972.13) for the transportation of timber included in the contract price over roads listed and shown on Exhibit D, which are under the jurisdiction of the Bureau of Land Management. The above road maintenance and rockwear amount is for use Nine (9.0) miles of road or less. Unless the total maintenance amount is paid prior to commencement of operations on the Contract Area, payments shall be made in installments of not less than Five Hundred and No/100 dollars (\$500.00) payable in the same manner as and together with payments required in Section 3 of this contract.
- (5) The Purchaser shall perform any required road repair and maintenance work on roads used by them, under the terms of Exhibit D of this contract.
- (6) The Purchaser also agrees that if they elect to use any other private road which is the subject of a right-of way agreement with the Government for the removal of Government timber sold under the terms of this contract, the Purchaser shall request and agree to the modification of this contract to provide for such use and for allowances for amortization of the Government's share of the capital investment of any such road.

Section 42(E) Fire Prevention and Control:

(1) 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.

Section 42(F) Slash Disposal and Site Preparation:

- (1) In addition to the requirements of Section 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) Prior to commencement of any operation under Section F (Slash Disposal and Site Preparation) of this contract, a slash disposal prework conference between the Purchaser's

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representative and the Authorized Officer must be held at a location designated by the Authorized Officer. All slash disposal and site preparation shall be done in accordance with the plans developed at the prework conference.

- (b) Slash, as defined for this section, shall mean all material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of Purchaser's operations under the terms of this contract.
- (c) Machine pile all slash yarded to the landings and within fifty (50) feet of all landings. Piling is to be completed within thirty (30) days of the completion of yarding for each landing. Piles are to be tight and free of dirt.
- (d) Cover each landing pile with a minimum ten (10) foot by ten (10) foot sheet of four (4) mil. black plastic, unless otherwise directed by the Authorized Officer, to meet ignition and combustion needs. The cover shall be firmly fixed or weighed down to hold in place. Covering shall be done concurrently with piling.
- (2) Hand pile and cover all slash in portions of Harvest Areas No. 2, No. 3 and No. 6, as shown on Exhibit E, or as directed by the Authorized Officer, in accordance with the following specifications:
 - (a) All logging slash and slashed brush more than two (2) feet long and between one (1) and six (6) inches in diameter at the large end shall be hand piled and covered. Larger material which has a portion meeting this specification must be bucked at the six (6) inch diameter, and that portion piled.
 - (b) Piles shall be located as directed by the Authorized Officer. No pile shall be located on down logs or within ten (10) feet of any other pile, orange painted reserve trees, or the unit boundary, unless approved by the Authorized Officer. Some piles may be located against the uphill side of selected orange painted reserve trees as designated by the Authorized Officer in order to create snags for wildlife habitat.
 - (c) Maximum pile size shall be eight (8) feet in diameter by six (6) feet in height. Minimum pile size shall be four (4) feet in diameter by four (4) feet in height.
 - (d) Covering shall be done concurrently with piling. A minimum of fifty (50) percent of the pile is to be covered using four (4) mil. black plastic or equivalent, and anchored or weighted down to the satisfaction of the Authorized Officer.
 - (e) Operations required by this provision shall begin within thirty (30) days after completion of logging of each Harvest Area and shall be concluded within sixty (60) days after completion of logging of each Harvest Area.

Section 42(G) Log Exports:

(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 (8¾) inches in thickness; (3) split or round bolts or other

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roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp, and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacturing of eight and three-quarters (8¾) inches in thickness or less; (6) shakes and shingles.

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

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

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

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

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

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

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All logs will be branded on loads of 10 logs or less. One end of all branded logs to be processed domestically will be marked with a 3 square inch spot of highway yellow paint. The Purchaser will stop trucks for accountability monitoring at mutually agreed upon locations when notified by the Authorized Officer.

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

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

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

Orb Weaver Seasonal Restrictions Matrix ORR05-TS-2016.0007 (Page 1 of 1) Restricted Times Are Darkly Shaded

Sale Area	Activity		Jan		Feb		Mar		Apr		May		June		July		Aug		Sept		ct	Nov		Dec	
		1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15	1	15
Harvest Areas	Falling and bucking ³																								
1,2,4,5,7,9,11&12	Cable yarding on rock roads ³																								
	Loading or hauling on rock roads																								
Harvest Area 3	Falling and bucking ³																								
	Cable yarding on native surface roads ^{2,3}																								
	Cable yarding on rock roads ³																								
	Loading or hauling on native surface roads ²																								
	Loading or hauling on rock roads																								
Harvest Areas 6,8	Falling and bucking ³																								
&10	Cable yarding on rock roads ³																								
	Ground-based yarding and sub-soiling ^{1,3}																								
	Loading or hauling on rock roads																								
	Right-of-way logging and clearing, road construction, renovation, daylighting and/or decommissioning ²																								

¹Wet season restriction: ground-based yarding (October 15 –July 15) may be shortened or extended depending on weather conditions.

Note: This matrix is intended to serve prospective purchasers as a guide only.

Refer to the contract Special Provisions for a full statement of the seasonal operating restrictions.

²Wet season restriction: native surface roads and road construction (October 15-May 15) may be shortened or extended depending on weather conditions

³Bark slip seasonal restriction (April 15 – July 15) may be conditionally waived.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

X

FORM APPROVED
OMB NO. 1004-0113
Expires: July 31, 1992

		OMB NO. 1004-0113
		Expires: July 31, 1992
. 3.7	- 1	

(1) 2016.0007

Sale Name **Orb Weaver**

Sale Notice (dated)

Sept. 29, 2015 (sale date 10/27/2015)

BLM District

DEPOSIT AND BID FOR

LUMP SUM SALE

	Roseburg					
Sealed Bid for Sealed Bid Sale	Written Bid for Oral Auction Sale					
In response to the above dated Sale Notice, the required deposit and bid are hereby submitted for the purchase of designated timber/vegetative resource on the tract specified above.						
Required bid deposited is \$ 64,800.00 and is enclosed in for for	rm of cash money order bank draft					
cashier's check certified check bid bond of corpo	orate surety on approved list of the United States Treasury					
guaranteed remittance approved by the authorized officer.						
IT IS AGREED That the hid deposit shall be retained by the Unit	ted States as liquidated damages if the hid is accepted and the undersigned					

TIMBER*

VEGETATIVE RESOURCE

(Other Than Timber)

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

BID SCHEDULE - LUMP SUM SALE

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

BID SUBMITTED (Est. Volume MBF 16' Log) ORAL BID MADE									MADE	
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY		UNIT PRICE		TOTAL VALUE		UNIT PRICE		TOTAL VALUE
Douglas-fir	MBF	3,503	X		=		х		=	
Grand Fir	MBF	254	X		=		х		=	
Incense-cedar	MBF	235	X		=		х		=	
Western Redcedar	MBF	38	X		=		х		=	
Ponderosa Pine	MBF	30	X		=		х		=	
Western Hemlock	MBF	9	X		=		х		=	
Sugar Pine	MBF	3	X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
	MBF		X		=		х		=	
TOTAL	MBF	4,072								
	•	TOTAL PUR	RCH	ASE PRICE						

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on (date)	
(Check appropriate box, sign in	ink, and complete the following)
☐ Signature, if firm is individually owned	Name of firm (type or print)
☐ Signatures, if firm is a partnership	Business address, include zip code (type or print)
☐ Corporation organized under the state laws of	(To be completed following oral bidding) I HEREBY confirm the above oral bid
Signature of Authorized Corporate Signing Officer	By (signature)
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior—BLM.	Sealed Bid — Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber
Oral Auction — Submit to Sales Supervisor prior to closing of qualifying period for tract.	(3) Time bids are to be opened (4) Legal description
The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to info	orm you that:
This information is being collected to obtain data relevant to the operation of this ti. This information will be used to administer our timber sale program. Proposes to this required to obtain a benefit.	mber sale contract.

Response to this request is required to obtain a benefit.

NOTICE

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 1 hr. 15 min. per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0113), Washington, D.C. 20503.

INSTRUCTIONS TO BIDDERS

- 1. AUTHORITY Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.
- 2. QUALIFICATIONS OF BIDDERS A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.
- 3. INSPECTION OF TIMBER/VEGETATIVE RESOURCES Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
- 4. DISCLAIMER OF WARRANTY Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.
- BIDS Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued Timber/Vegetative Resource Sale Notice.
- (a) Sealed Bid Sales Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside Bid for Timber/Vegetative Resource, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.
- (b) Auction Sales Submission of the required bid desposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
- (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.
- (d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.
- BID FORMS All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.
- (a) Lump Sum Sales Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
- (b) Timber Scale Sales Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

- 7. BID DEPOSIT All bidders must make a deposit of not less than the amount specified in the Timber/Vegetative Resource Notice. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior—BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.
- 8. AWARD OF CONTRACT Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.
- 9. TIMBER/VEGETATIVE RESOURCE SALE CONTRACT To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND -

- (a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approved list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) Any guaranteed remittance approved by the Authorized Officer.
- (b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*
- 11. PAYMENT BOND If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*
- 12. PAYMENT OF PURCHASE PRICE For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.
- 13. LIQUIDATED DAMAGES Within thirty (30) days from receipt of Timber/Vegetative Resource Sale Contract, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.
- 14. NINETY-DAY SALES If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.
- 15. UNAUTHORIZED USE OF GOVERNMENT PROPERTY A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.

- 16. EQUAL OPPORTUNITY CLAUSE This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.
- 17. LOG EXPORT All timber offered for sale except as noted in the Timber Sale Notice is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Num-
- ber 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.

:: U.S. GOVERNMENT PRINTING OFFICE: 1990-832-998

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

X

FORM APPROVED
OMB NO. 1004-0113
Expires: July 31, 1992

		OMB NO. 1004-0113
		Expires: July 31, 1992
. 3.7	- 1	

(1) 2016.0007

Sale Name **Orb Weaver**

Sale Notice (dated)

Sept. 29, 2015 (sale date 10/27/2015)

BLM District

DEPOSIT AND BID FOR

LUMP SUM SALE

	Roseburg
Sealed Bid for Sealed Bid Sale	Written Bid for Oral Auction Sale
In response to the above dated Sale Notice, the required deposit and bid the tract specified above.	are hereby submitted for the purchase of designated timber/vegetative resource on
Required bid deposited is \$ 64,800.00 and is enclosed in for for	rm of cash money order bank draft
cashier's check certified check bid bond of corpo	orate surety on approved list of the United States Treasury
guaranteed remittance approved by the authorized officer.	
IT IS AGREED That the hid deposit shall be retained by the Unit	ted States as liquidated damages if the hid is accepted and the undersigned

TIMBER*

VEGETATIVE RESOURCE

(Other Than Timber)

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

BID SCHEDULE - LUMP SUM SALE

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

		BID SUBMITTE		(Est. Volume					LBIE) MADE
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANTITY		UNIT PRICE		TOTAL VALUE		UNIT PRICE		TOTAL VALUE
Douglas-fir	MBF	3,503	X		=		x		=	
Grand Fir	MBF	254	X		=		x		=	
Incense-cedar	MBF	235	X		=		х		=	
Western Redcedar	MBF	38	X		=		х		=	
Ponderosa Pine	MBF	30	X		=		х		=	
Western Hemlock	MBF	9	X		=		x		=	
Sugar Pine	MBF	3	X		=		х		=	
	MBF		X		=		x		=	
	MBF		X		=		х		=	
	MBF		X		=		x		=	
	MBF		X		=		x		=	
	MBF		X		=		x		=	
	MBF		X		=		x		=	
	MBF		X		=		x		=	
TOTAL	MBF	4,072								
	•	TOTAL PUR	RCH.	ASE PRICE						

If sale contract is executed, undersigned is liable for total purchase price even though the quantity cut, removed, or designated for taking is more or less than the total estimated volume or quantity shown above. Undersigned certifies bid was arrived at by bidder or offeror independently, and was tendered without collusion with any other bidder or offeror. In submitting or confirming this bid, undersigned agrees to the foregoing provisions, applicable regulations, and certifies that he is authorized to act as, or on behalf of, the bidder.

Bid submitted on (date)	
(Check appropriate box, sign in	ink, and complete the following)
☐ Signature, if firm is individually owned	Name of firm (type or print)
☐ Signatures, if firm is a partnership	Business address, include zip code (type or print)
☐ Corporation organized under the state laws of	(To be completed following oral bidding) I HEREBY confirm the above oral bid
Signature of Authorized Corporate Signing Officer	By (signature)
Title	Date
Submit bid, in <i>duplicate</i> , to qualify for either an oral auction or sealed bid sale together with the required bid deposit made payable to the Department of the Interior—BLM.	Sealed Bid — Send to District Manager, who issued the sale notice, in a sealed envelope marked on the outside: (1) "Bid for Timber" (2) Vegetative Resource Other Than Timber
Oral Auction — Submit to Sales Supervisor prior to closing of qualifying period for tract.	(3) Time bids are to be opened (4) Legal description
The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to info	orm you that:
This information is being collected to obtain data relevant to the operation of this ti. This information will be used to administer our timber sale program. Proposes to this proposed to obtain a benefit.	mber sale contract.

Response to this request is required to obtain a benefit.

NOTICE

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 1 hr. 15 min. per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W. Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0113), Washington, D.C. 20503.

INSTRUCTIONS TO BIDDERS

- 1. AUTHORITY Timber located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 1181a); timber located on other lands and other vegetative resources on all public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of timber are codified in 43 CFR Group 5400.
- 2. QUALIFICATIONS OF BIDDERS A bidder for sale of timber/vegetative resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the State in which the timber/vegetative resource is located.
- 3. INSPECTION OF TIMBER/VEGETATIVE RESOURCES Bidder is invited, urged, and cautioned to inspect the timber/vegetative resource prior to submitting a bid. By executing the timber/vegetative resource sale contract, bidder warrants that the contract is accepted on the basis of his examination and inspection of the timber/vegetative resource and his opinion of its value.
- 4. DISCLAIMER OF WARRANTY Government expressly disclaims any warranty of the fitness of the designated timber/vegetative resource for any purpose of the bidder; all timber/vegetative resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of timber/vegetative resource to be sold is expressly disclaimed by Government.
- BIDS Sealed or written bids for not less than the advertised appraised price, per timber/vegetative resource must be submitted in duplicate to the District Manager who issued Timber/Vegetative Resource Sale Notice.
- (a) Sealed Bid Sales Bids will be received until time for opening which is set out in the Notice. Enclose both copies of bid with required bid deposit in a sealed envelope marked on the outside Bid for Timber/Vegetative Resource, time bid is to be opened, tract number, and legal description of land on which timber/vegetative resource is located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.
- (b) Auction Sales Submission of the required bid desposit and a written bid is required to qualify for oral bidding. Oral bidding shall begin from the highest written bid. No oral bid will be considered which is not higher than the preceding bid. In the event there is a tie in high written bids, and no oral bidding occurs, the bidder who was the first to submit his bid deposit and written bid shall be declared the high bidder. If the officer conducting the sale cannot determine who made the first submission of high tie written bids, the high bidder shall be determined by lot. High bidder must confirm his bid, in writing, immediately upon being declared high bidder.
- (c) Except as otherwise provided in 43 CFR 5442.2, bids will not be considered in resale of timber/vegetative resource remaining from an uncompleted contract from any person or affiliate of such person who failed to complete the original contract because of (1) cancellation for the purchaser's breach or (2) through failure to complete payment by expiration date.
- (d) When it is in the interest of the Government to do so, it may reject any and all bids and may waive minor deficiencies in bids or in sale advertisement.
- BID FORMS All sealed, written bids, and confirmation of oral bids shall be submitted on forms provided by Government.
- (a) Lump Sum Sales Bids shall specify (1) Bureau of Land Management estimated volume, (2) price per unit, and (3) total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, high bidder shall be liable for total purchase price, including any adjustment which may be made as a result of reappraisal if an extension of time is granted, even though quantity of timber/vegetative resource actually cut, removed, or designated for taking is more or less than the estimated volume or quantity listed.
- (b) Timber Scale Sales Bids must state price per thousand board feet that will be paid for each species. High bidder will be determined by multiplying bid price per thousand board feet per species by Bureau of Land Management estimate of volume of each species. Purchaser shall be liable for purchase price of all merchantable timber sold under contract even though all such timber is not actually cut and removed prior to expiration of time for cutting and removal as specified in contract.*

- 7. BID DEPOSIT All bidders must make a deposit of not less than the amount specified in the Timber/Vegetative Resource Notice. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior—BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department*, or any approved guaranteed remittance approved by the Authorized Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder may be applied toward the required sale deposit and/or the purchase price. Cash not applied to the sale deposit or the purchase price, or a corporate surety bid bond, will be returned at the time the contract is signed by the Government.
- 8. AWARD OF CONTRACT Government may require high bidder to furnish such information as is necessary to determine the ability of bidder to perform the obligation of contract. Contract will be awarded to high bidder, unless he is not qualified or responsible or unless all bids are rejected. If high bidder is not qualified or responsible or fails to sign and return the contract together with required performance bond and any required payment, contract may be offered and awarded to the highest bidders qualified, responsible, and willing to accept the contract.
- 9. TIMBER/VEGETATIVE RESOURCE SALE CONTRACT To be executed by purchaser, has been prepared by Government, and may be examined in the District Manager's office.

10. PERFORMANCE BOND -

- (a) A performance bond in an amount of not less than 20 percent of total purchase price is required, but the amount of the bond shall not be in excess of \$500,000, except when the purchaser opts to increase the minimum bond to permit cutting prior to payment as provided in 43 CFR 5451.2, or in the event the purchaser is a holder of an unresolved default the bond may be increased as provided in 43 CFR 5450.1(b). Performance bond may be (1) bond of a corporate surety shown on approved list issued by the United States Treasury Department and executed on an approved standard form, (2) personal surety bond executed on an approved standard form if Government determines principals and bondsman are capable of carrying out the terms of the contract, (3) cash bonds, (4) negotiable securities of the United States, or (5) Any guaranteed remittance approved by the Authorized Officer.
- (b) If purchaser elects to cut timber without skidding or yarding it to a loading point or removing it prior to the payment of the second or subsequent installments, Government shall require an increase in amount of performance bond initially required by an amount equal to the value of timber to be cut. Such increase must be on a bond rider form supplied by Government and be approved, in writing, by Government prior to cutting timber covered by the bond increase. This increased amount of bond shall be used to assure payment for timber cut in advance of payment.*
- 11. PAYMENT BOND If purchaser elects to (a) cut and remove timber, or (b) remove timber already cut which has been secured by an increased performance bond as provided in paragraph 10(b) above, before payment of the second or subsequent installments, Government shall require a payment bond on a form supplied by Government. Purchaser shall obtain written approval from Government of payment bond prior to cutting and/or removal of timber covered by the bond. Payment bond shall be used to assure payment for timber cut and/or removed in advance of payment.*
- 12. PAYMENT OF PURCHASE PRICE For sales of \$500 or more, Government may allow payment by installments. Except as discussed in paragraphs 10 and 11 above, no part of any timber/vegetative resource sold may be severed, cut, or removed unless advance payment has been made as provided in contract.
- 13. LIQUIDATED DAMAGES Within thirty (30) days from receipt of Timber/Vegetative Resource Sale Contract, the successful bidder shall sign contract and return it to Government, together with required bond and any required payment. If successful bidder fails to comply within the stipulated time, his bid deposit shall be retained by Government as liquidated damages.
- 14. NINETY-DAY SALES If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.
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:: U.S. GOVERNMENT PRINTING OFFICE: 1990-832-998

U.S. Department of the Interior Bureau of Land Management

EXHIBIT A Sheet 1 of 6

Orb Weaver Contract # ORR05-TS-2016.0007

Township 28 South, Range 3 West, Sections 20, 21, 28, 29, 32, 33, Willamette Meridian Township 29 South, Range 3 West, Sections 4, 5, 9, Willamette Meridian Township 29 South, Range 4 West, Section 15, Willamette Meridian

HARVEST AREA	HARVEST ACRES	HARVEST METHOD	
1	49	CABLE	
2	23	CABLE	
3	26	CABLE	
4	23	CABLE	
5	4	CABLE	
6	51	CABLE/GROUND	
7	22	CABLE	
8	16	CABLE/GROUND	
9	23	CABLE	
10	20	CABLE/GROUND	
11	30	CABLE	
12	19	CABLE	
Total	306		
IINNING AREA		306	;

THINNING AREA	306	Acres
RIGHT-OF-WAY (CLEARING)	4	Acres
TOTAL HARVEST AREA	310	Acres
RESERVE AREA	1387.99	Acres
TOTAL CONTRACT AREA	1697.99	Acres

- 1. Harvest Area boundaries are painted orange and posted with white "BOUNDARY OF TIMBER RESERVE" tags, except on property lines which are painted or flagged and posted with orange and white "TIMBER CUTTING BOUNDARY" tags.
- 2. Clearing limits on road rights-of-ways and boundaries of daylighting (roadside clearing) areas are posted with "RIGHT-OF-WAY" tags and painted orange.
- 3. Retention trees are marked with orange paint above and below stump height.
- 4. Approximately 14 acres are available for ground-based harvest.





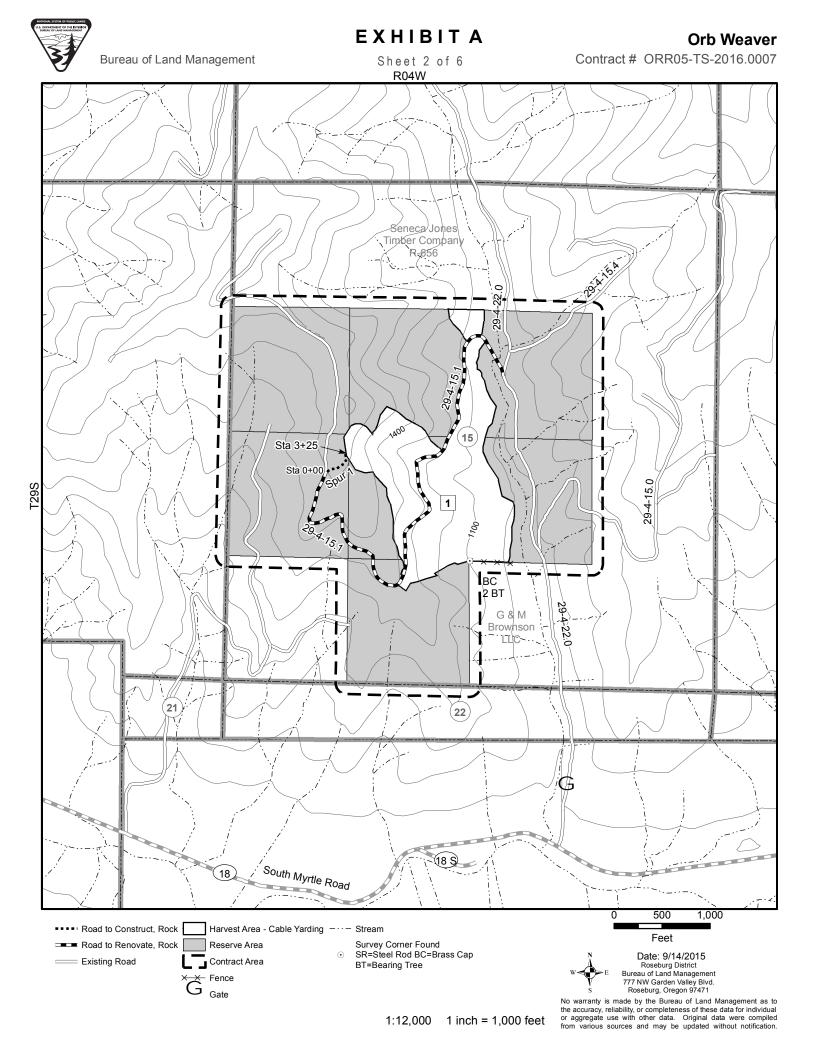


EXHIBIT A Orb Weaver Contract # ORR05-TS-2016.0007 Bureau of Land Management Sheet 3 of 6 R03W Seneca Jones Timber Company ВС R-656 2 BTs 1800 Spur 4 5 Glowacki, Sta 0+00 Joseph 29-3-9.0 I & Effie Sta 7+05 4 Lot 18 39.08 Ad Lot 17 38.83 Ac ľ BC. 1 BT 29-3-9.1 Sta 20+10 = Spur 3 Sta 0+00 Ramsay, Kenneth M "ე & Juli A 3 Lot 22 38.50 Ac Lot 21 Sta 15+30 38.75 9 Lot 10 Seneca Jones Timber Company R-656 Lot 9 41.05 Ac Sta 0+00 2 Spur 2. 29 0 & C Revested Grant Sta 5+90 29-3-9.2 Lot 16 . 40.99 A 40 99 Ac [18] 1,000 ■■■■ Road to Construct, Rock Harvest Area - Cable Yarding Feet ===: Road to Construct, Native Reserve Area No Harvest Stream Buffer Date: 9/14/2015 Roseburg District Bureau of Land Management 777 NW Garden Valley Blvd. Roseburg, Oregon 97471 Contract Area Survey Corner Found Road to Renovate, Rock SR=Steel Rod BC=Brass Cap

BT=Bearing Tree

1:12,000 1 inch = 1,000 feet

No warranty is made by the Bureau of Land Management as to

the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled

from various sources and may be updated without notification.

Power Line/Underground

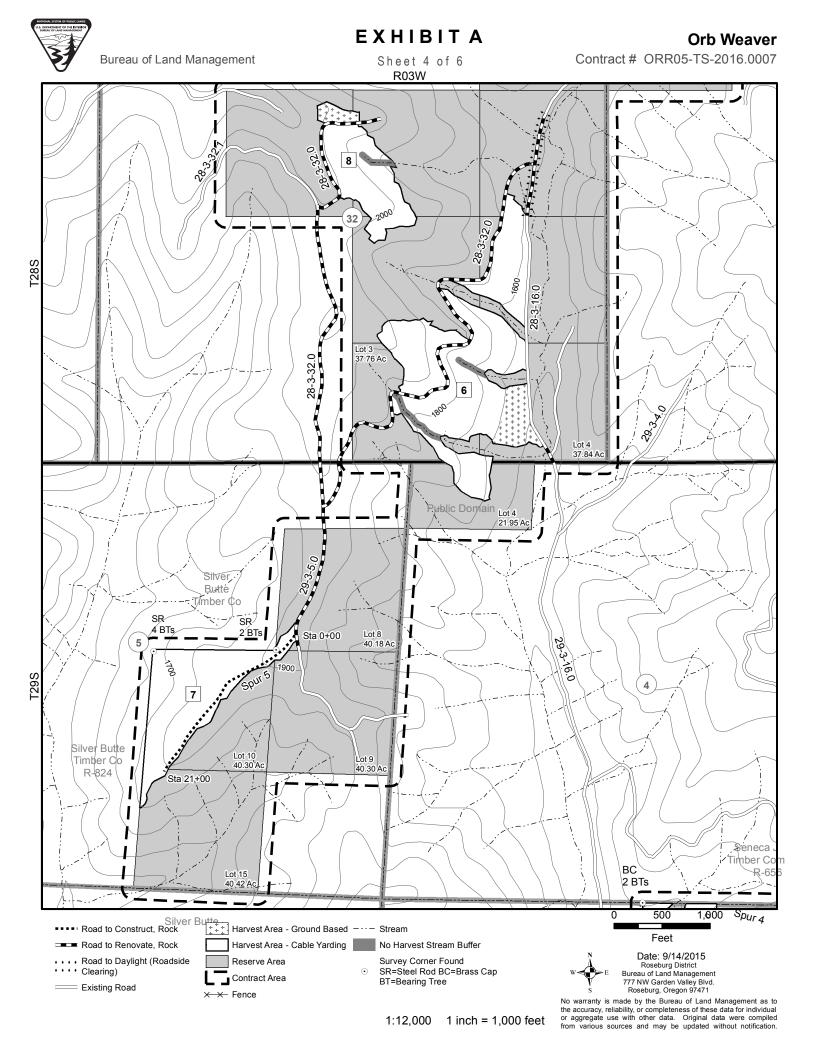
Cable

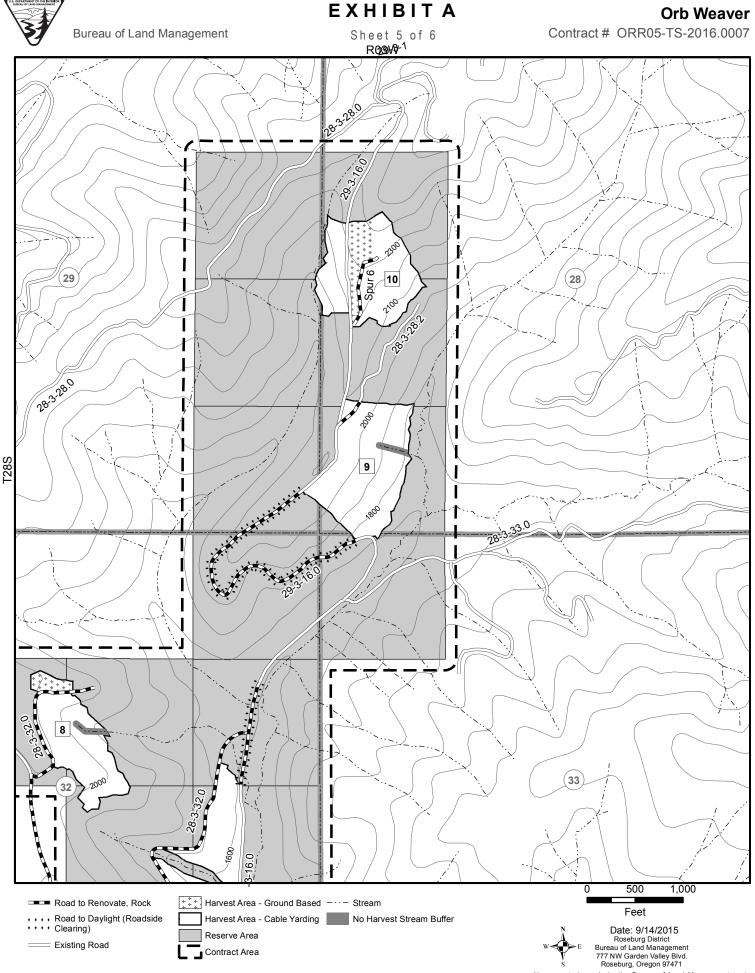
Road to Renovate, Native

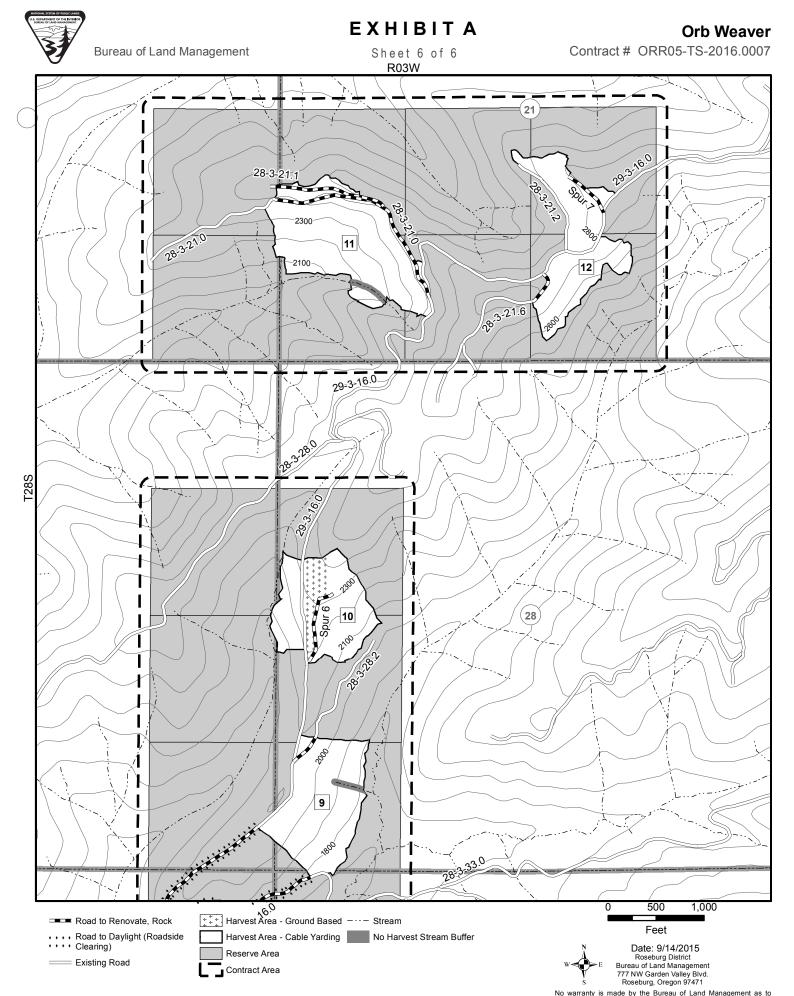
· · · · Clearing)

=== Existing Road

• • Road to Daylight (Roadside







Form 5450-3a (February 1986)

SPECIES

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Contract No.

ORR05-TS-2016.0007

Orb Weaver

PRICE PER UNIT ESTIMATED VOLUME OR

EXHIBIT B / PRE-SALE

5450-3

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A.**

ESTIMATED VOLUME OR QUANTITY

SI ECIES	(Units S _I		OANTITI		TRICE LEK CIVIT	QUANTITY X UNIT PRICE
Douglas Fir		3	,503.0	MBF	\$171.10	\$599,363.30
Grandfir			254.0	MBF	\$59.10	\$15,011.40
Incense-cedar			235.0	MBF	\$91.40	\$21,479.00
Western Redcedar			38.0	MBF	\$255.40	\$9,705.20
Ponderosa Pine			30.0	MBF	\$32.20	\$966.00
Western Hemlock			9.0	MBF	\$40.70	\$366.30
Sugar Pine			3.0	MBF	\$76.40	\$229.20
TOTALS			4,072.0	MBF		\$647,120.40
The apportionment of the total purcha	ase price is as follows:					
<u>Unit 1</u>						
Douglas Fir	555.0 MBF	X	\$171.10	=	\$94,960.50	
Grandfir	46.0 MBF	X	\$59.10	=	\$2,718.60	
Incense-cedar	27.0 MBF	Х	\$91.40	=	\$2,467.80	
Western Redcedar	7.0 MBF	Х	\$255.40	=	\$1,787.80	
Ponderosa Pine	6.0 MBF	Х	\$32.20	=	\$193.20	
Western Hemlock	1.0 MBF	X	\$40.70	=	\$40.70	
Total	642.0 Mbf				\$102,168.60	÷ 49.0 acres = \$2,085.07/Acre
Unit 2						
Douglas Fir	236.0 MBF	X	\$171.10	=	\$40,379.60	
Grandfir	20.0 MBF	X	\$59.10	=	\$1,182.00	
Incense-cedar	11.0 MBF	Х	\$91.40	=	\$1,005.40	
Western Redcedar	3.0 MBF	Х	\$255.40	=	\$766.20	
Ponderosa Pine	2.0 MBF	Х	\$32.20	=	\$64.40	
Western Hemlock	1.0 MBF	X	\$40.70	=	\$40.70	
Total	273.0 Mbf				\$43,438.30	÷ 23.0 acres = \$1,888.62/Acre
Unit 3						
Douglas Fir	270.0 MBF	X	\$171.10	=	\$46,197.00	
Grandfir	23.0 MBF	Х	\$59.10	=	\$1,359.30	
Incense-cedar	13.0 MBF	Х	\$91.40	=	\$1,188.20	
Western Redcedar	3.0 MBF	Х	\$255.40	=	\$766.20	
Ponderosa Pine	3.0 MBF	Х	\$32.20	=	\$96.60	
Western Hemlock	1.0 MBF	Х	\$40.70	=	\$40.70	

Form 5450-3a (February 1986)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-3

Contract No.

ORR05-TS-2016.0007

Orb Weaver

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A.**

Unit 5 Douglas Fir 45.0 MBF X \$171.10 = \$7,699.50 Grandfir 4.0 MBF X \$59.10 = \$236.40 Incense-cedar 2.0 MBF X \$91.40 = \$182.80 Western Redcedar 1.0 MBF X \$255.40 = \$255.40 Ponderosa Pine 1.0 MBF X \$32.20 = \$32.20 Total 53.0 Mbf X \$32.20 = \$32.20 Unit 6 Douglas Fir 562.0 MBF X \$171.10 = \$96,158.20 Grandfir 46.0 MBF X \$59.10 = \$2,718.60 Incense-cedar 27.0 MBF X \$91.40 = \$2,467.80 Western Redcedar 8.0 MBF X \$255.40 = \$2,043.20 Ponderosa Pine 5.0 MBF X \$32.20 = \$161.00 Western Hemlock 1.0 MBF X \$40.70 = \$40.70	÷ 23.0 acres = \$1,961.31/Acre
Douglas Fir 248.0 MBF X \$171.10 = \$42,432.80 Grandfir 2.0 MBF X \$59.10 = \$118.20 Incense-cedar 28.0 MBF X \$91.40 = \$2,559.20 Total 278.0 Mbf X \$91.40 = \$2,559.20 Unit 5 S S S \$45,110.20 Unit 6 Douglas Fir 45.0 MBF X \$171.10 = \$7,699.50 Grandfir 4.0 MBF X \$59.10 = \$236.40 Incense-cedar 2.0 MBF X \$91.40 = \$182.80 Western Redcedar 1.0 MBF X \$255.40 = \$255.40 Ponderosa Pine 1.0 MBF X \$32.20 = \$32.20 Unit 6 Douglas Fir 562.0 MBF X \$171.10 = \$96,158.20 Grandfir 46.0 MBF X \$171.10 = \$96,158.20 Incense-cedar 2.0 MBF X	÷ 23.0 acres = \$1,961.31/Acre
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Ponderosa Pine 5.0 MBF X \$32.20 = \$161.00 Western Hemlock 1.0 MBF X \$40.70 = \$40.70 Total 649.0 Mbf \$103,589.50	
Western Hemlock 1.0 MBF X \$40.70 = \$40.70 Total 649.0 Mbf \$103,589.50	
Total 649.0 Mbf \$103,589.50 Unit 7	
<u>Unit 7</u>	
	÷ 51.0 acres = \$2,031.17/Acre
Douglas Fir 248.0 MBF X \$171.10 = \$42.432.80	
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Grandfir 21.0 MBF X \$59.10 = \$1,241.10	
Incense-cedar 12.0 MBF X \$91.40 = \$1,096.80	
Western Redcedar 3.0 MBF X \$255.40 = \$766.20	
Ponderosa Pine 3.0 MBF X \$32.20 = \$96.60	
Western Hemlock 1.0 MBF X \$40.70 = \$40.70	
Total 288.0 Mbf \$45,674.20	

Form 5450-3a (February 1986)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Contract No.

ORR05-TS-2016.0007

Orb Weaver

EXHIBIT B / PRE-SALE

5450-3

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A.**

Unit 8						
Douglas Fir	177.0 MBF	Χ	\$171.10	=	\$30,284.70	
Grandfir	2.0 MBF	Χ	\$59.10	=	\$118.20	
Incense-cedar	20.0 MBF	Χ	\$91.40	=	\$1,828.00	
Total	199.0 Mbf				\$32,230.90	÷ 16.0 acres = \$2,014.43/Acre
Unit 9	070.0 MDF	V	Ф4 7 4.40		\$47.505.00	
Douglas Fir	278.0 MBF	X	\$171.10	=	\$47,565.80	
Grandfir	23.0 MBF	X	\$59.10	=	\$1,359.30	
Incense-cedar	14.0 MBF	X	·		\$1,279.60	
Western Redcedar	3.0 MBF	X	\$255.40	=	\$766.20	
Ponderosa Pine	3.0 MBF	X	\$32.20	=	\$96.60	
Western Hemlock	1.0 MBF	X	\$40.70	=	\$40.70	
Total	322.0 Mbf				\$51,108.20	÷ 23.0 acres = \$2,222.10/Acre
<u>Unit 10</u>						
Douglas Fir	225.0 MBF	Х	\$171.10	=	\$38,497.50	
Grandfir	19.0 MBF	X	\$59.10		\$1,122.90	
Incense-cedar	11.0 MBF	X	\$91.40	=	\$1,005.40	
Western Redcedar	3.0 MBF	X	\$255.40	=	\$766.20	
Ponderosa Pine	2.0 MBF	X	\$32.20	=	\$64.40	
Western Hemlock	1.0 MBF	X	\$40.70		\$40.70	
Total	261.0 Mbf		Ψ+0.70			÷ 20.0 acres = \$2,074.86/Acre
Total	201.0 100				ψ+1,+57.10	÷ 20.0 doics = \$2,074.00/Acic
<u>Unit 11</u>						
Douglas Fir	338.0 MBF	Χ	\$171.10	=	\$57,831.80	
Grandfir	28.0 MBF	Χ	\$59.10	=	\$1,654.80	
Incense-cedar	16.0 MBF	Χ	\$91.40	=	\$1,462.40	
Western Redcedar	4.0 MBF	Χ	\$255.40	=	\$1,021.60	
Ponderosa Pine	3.0 MBF	Х	\$32.20	=	\$96.60	
Western Hemlock	1.0 MBF	Х	\$40.70		\$40.70	
Total	390.0 Mbf				\$62,107.90	÷ 30.0 acres = \$2,070.26/Acre
<u>Unit 12</u>						
Douglas Fir	214.0 MBF	Χ	\$171.10	=	\$36,615.40	

Form 5450-3a (February 1986)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Contract No.

ORR05-TS-2016.0007

Orb Weaver

EXHIBIT B / PRE-SALE

5450-3

The following estimates and calculations of value of timber sold are made solely as an administrative aid for determining: (1) adjustments made or credits given in accordance with Secs. 6, 9, or 11; (2) when payments are due; and (3) value of timber subject to any special bonding provisions. The value of timber will be determined by multiplying the value per acre as shown below, times the amount of acreage as determined by the Authorized Officer, which has been cut or removed or designated for taking. Except as provided in Sec. 2, Purchaser shall be liable for total purchase price even though quantity of timber actually cut or removed or designated for taking is less than the estimated volume or quantity shown. Cutting areas are shown on **Exhibit A.**

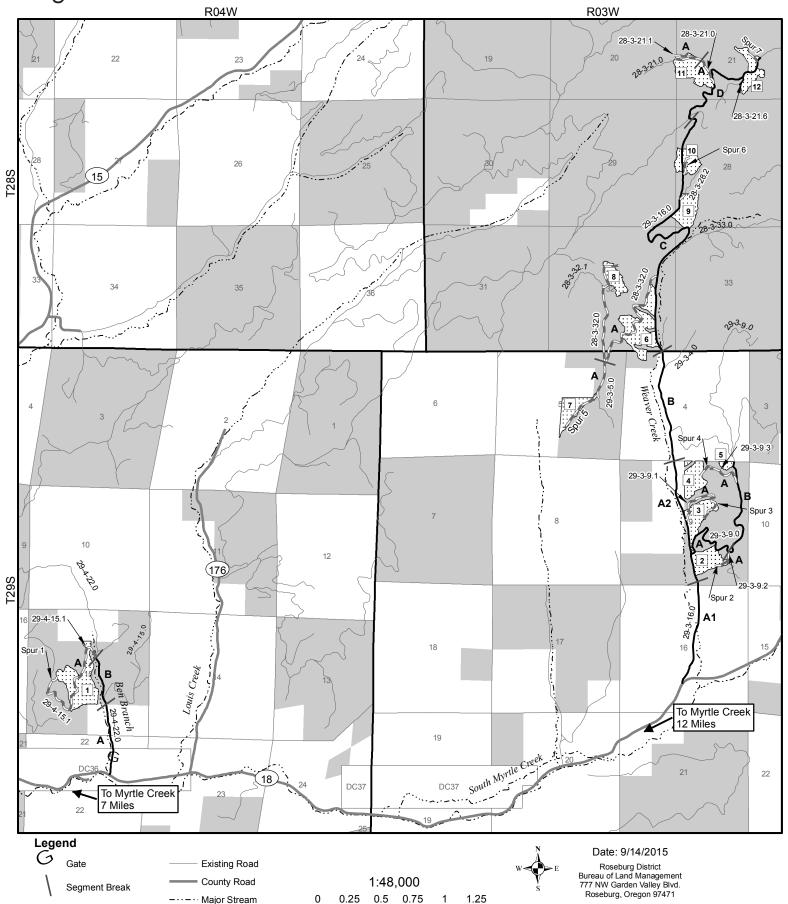
<u>Unit 12</u>						
Grandfir	18.0 MBF	Χ	\$59.10	=	\$1,063.80	
Incense-cedar	10.0 MBF	Χ	\$91.40	=	\$914.00	
Western Redcedar	3.0 MBF	Χ	\$255.40	=	\$766.20	
Ponderosa Pine	2.0 MBF	Χ	\$32.20	=	\$64.40	
Western Hemlock	1.0 MBF	Χ	\$40.70	=	\$40.70	
Total	248.0 Mbf				\$39,464.50	÷ 19.0 acres = \$2,077.08/Acre
<u>Unit Spur</u>						
Douglas Fir	107.0 MBF	Χ	\$171.10	=	\$18,307.70	
Grandfir	2.0 MBF	Χ	\$59.10	=	\$118.20	
Incense-cedar	44.0 MBF	Χ	\$91.40	=	\$4,021.60	
Sugar Pine	3.0 MBF	Χ	\$76.40	=	\$229.20	
Total -	156.0 Mbf				\$22,676.70	÷ 4.0 acres = \$5,669.18/Acre



EXHIBIT D

Orb Weaver

Contract # ORR05-TS-2016.0007



County Road

Major Stream

BLM Lands

Harvest Area

Segment Break

BLM Maintenance

Purchaser Maintenance

0.25 0.5 0.75 1.25 No warranty is made by the Bureau of Land Management as to the accuracy, reliability, or completeness of these data for individual or aggregate use with other data. Original data were compiled Miles from various sources and may be updated without notification. U.S. Department of the Interior Bureau of Land Managenment

ACCESS & MAINTENANCE LIST EXHIBIT D

Orb Weaver Contract # ORR05-TS-2016.0007

Road Number	Road Seg.	Segment Length	Segment Owner	Road Use Fees	Surface Type	Timber Haul Fees	Maintained By
28-3-21.0	A(Por)	0.44	BLM		Rock	\$0.49	Purchaser
28-3-21.1	А	0.26	BLM		Rock	\$0.49	Purchaser
28-3-21.6	A(Por)	0.08	BLM		Rock	\$0.49	Purchaser
28-3-28.2	A(Por)	0.08	BLM		Rock	\$0.49	Purchaser
28-3-32.0	А	2.03	BLM		Rock	\$0.49	Purchaser
29-3-16.0	A1	0.81	BLM		BST	\$0.71	BLM
29-3-16.0	A2	0.99	BLM		Rock	\$1.25	BLM
29-3-16.0	В	0.92	BLM		Rock	\$1.25	BLM
29-3-16.0	С	2.67	BLM		Rock	\$1.25	BLM
29-3-16.0	D(Por)	1.06	BLM		Rock	\$1.25	BLM
29-3-5.0	A(Por)	0.28	BLM		Rock	\$0.49	Purchaser
29-3-9.0	Α	0.74	BLM		Rock	\$1.25	BLM
29-3-9.0	B(Por)	0.81	BLM		Rock	\$1.25	BLM
29-3-9.1	А	0.38	BLM		Native		Purchaser
29-3-9.2	A(Por)	0.10	BLM		Rock	\$0.49	Purchaser
29-3-9.3	А	0.29	BLM		Rock	\$0.49	Purchaser
29-4-15.1	A(Por)	1.04	BLM		Rock	\$0.49	Purchaser
29-4-22.0	А	0.50	BLM		Rock	\$1.25	BLM
29-4-22.0	B(Por)	0.43	BLM		Rock	\$1.25	BLM
Spur 1	А	0.06	BLM		Rock	\$0.49	Purchaser
Spur 2	А	0.11	BLM		Rock	\$0.49	Purchaser
Spur 3	А	0.29	BLM		Native		Purchaser
Spur 4	А	0.13	BLM		Rock	\$0.49	Purchaser
Spur 5	А	0.40	BLM		Rock	\$0.49	Purchaser
Spur 6	А	0.17	BLM		Rock	\$0.49	Purchaser
Spur 7	А	0.11	BLM		Rock	\$0.49	Purchaser

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

The Purchaser shall be required to maintain all roads listed and/or referenced in section 42(D) 3001 Special Provisions of this contract in accordance with Sections 3000, 3100, 3200, 3300, 3400. and 3500 of this exhibit. 3002 The Purchaser shall maintain the cross section of existing dirt or graveled roads to the existing geometric standards. Any roads required to be constructed, improved, or renovated under terms of this contract shall be maintained to the geometric standards required in Exhibit C of this contract. 3003 The minimum required maintenance on any roads shall include the provisions specified in Subsections 3101, 3104, and 3105. 3004 The Purchaser shall be responsible for providing timely maintenance and cleanup on any roads with logging units substantially completed prior to moving operations to other roads. The maximum length of non-maintained or non-cleanup of the road prism shall not exceed the sum of one (1) mile at any time. Release of maintenance requirements may be granted, upon written request, when the conditions specified in Sections 3300 and 3400 are met satisfactorily. **OPERATIONAL MAINTENANCE - 3100** 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. 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

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

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

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

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

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

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

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

The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required caused by such skidding activity is not considered maintenance and shall be repaired at the Purchaser's expense.

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3107

3108

3108a

The Purchaser shall perform logging operations on bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer. The Purchaser shall furnish oil, asphalt, gravel for necessary repairs at designated locations. Repair of the roads is not considered maintenance and shall be repaired at the Purchaser's expense. Repair of the roads shall be provided for by the Purchaser through payment in accordance with section 3.

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 the Purchaser, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the 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 the terms of their contract within thirty (30) calendar days following the completion of hauling or the expiration of the Purchaser's right to cut and remove timber and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions, Sections 3000, 3100, 3200 and 3300 of the maintenance

specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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.

Road No	From Sta	To Sta	Final Maintenance
28-3-21.0	0+00	11+25	Blade
28-3-21.1	0+00	13+60	Blade
28-3-21.6	0+00	4+00	Blade
28-3-28.2	0+00	4+00	Blade
28-3-32.0	0+00	103+50	Blade
29-3-5.0	0+00	14+65	Blade
29-3-9.3	0+00	15+70	Blade
29-4-15.1	0+00	54+80	Blade

OTHER MAINTENANCE - 3400

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

The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer.

The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin.

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

DECOMMISSIONING – 3500

Decommissioning shall consist of installing water bars, placement of slash, blocking road from access by vehicles. This work is required for road acceptance under Section 18 of this contract.

Decommissioning shall be performed on existing roads in accordance with these specifications, and as shown on the plans at the following locations:

Road No	From Sta	To Sta	Method of Decommissioning
29-3-9.1	0+00	20+10	Blade, water bar, remove culvert and block
29-3-9.2	0+00	5+00	Blade, water bar, and block
Spur 1	0+00	3+25	Blade, water bar, and block
Spur 2	0+00	5+90	Blade and water bar
Spur 3	0+00	15+30	Blade, water bar, remove culverts, and slash
Spur 4	0+00	7+05	Blade, water bar, and block
Spur 5	0+00	21+00	Blade, water bar and block

Decommissioning work shall be completed at the end of timber hauling activities.

3511

3513

3514

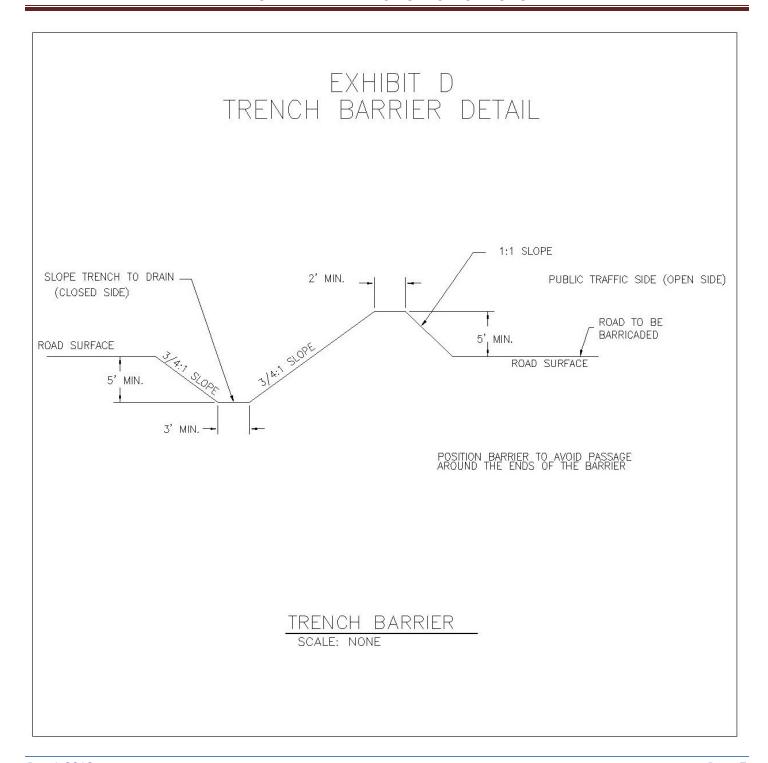
Slash shall be used to protect exposed areas created by the Purchaser's operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. Where slash is not available exposed soil areas shall be stabilized with weed free straw.

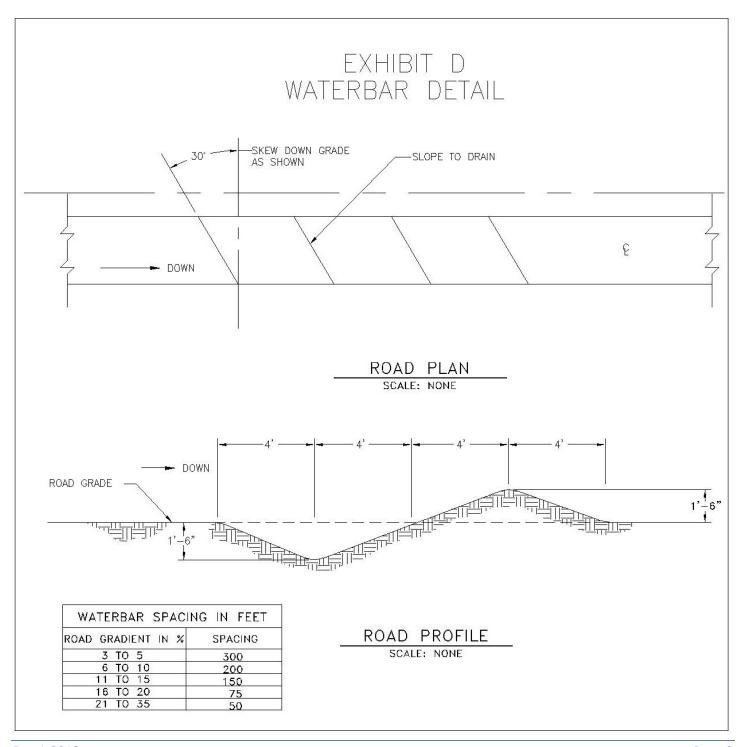
Access shall be blocked with barricades as shown on the typical detail sheet at locations listed in Section 3503.

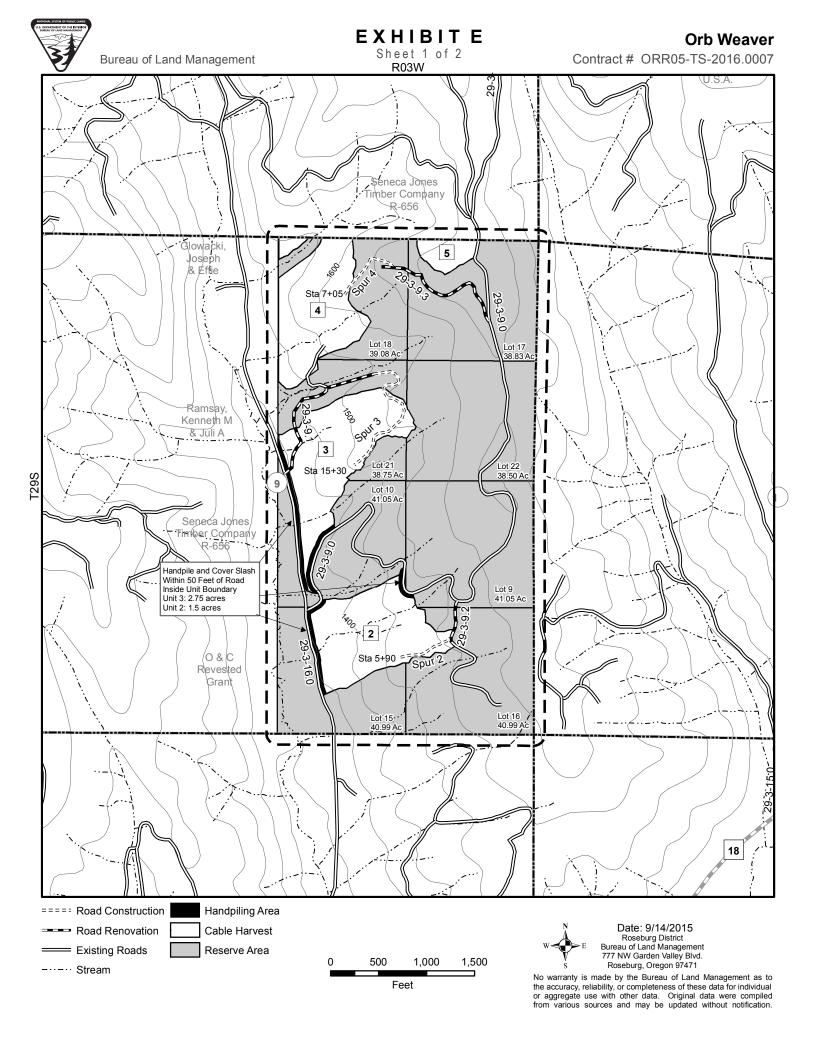
Water barring shall be done on designated roadways, turnouts, disturbed areas, and landings.

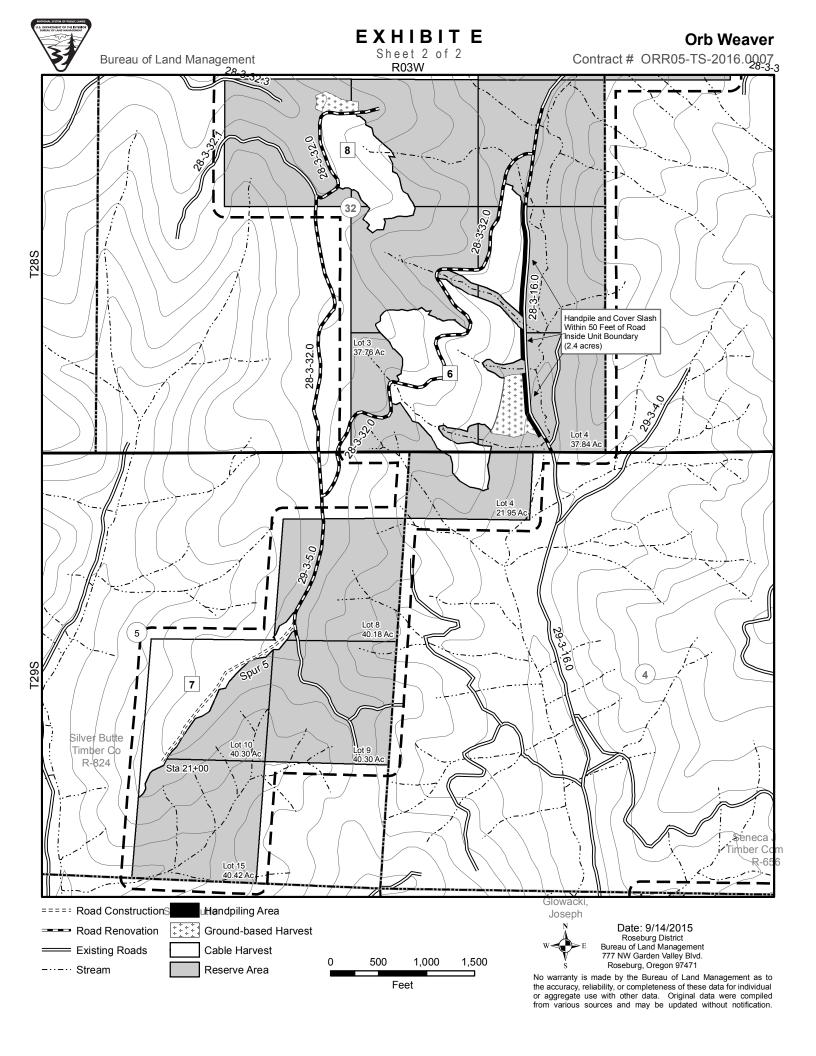
Water bars shall be installed across full width of roadway at the spacing shown on the drawings. Water bars shall be constructed as shown on water bar detail sheet. No water bars shall be installed closer than 50 feet to a draw crossing.

Protection of exposed surfaces shall be accomplished by placement of slash described in Subsection 3506, on designated roadways, and landings, disturbed by the purchaser in accordance with these specifications.











United States of America

Department of the Interior

Bureau Of Land Management

Timber Sale Appraisal

District: Roseburg

Sale Name: Orb Weaver

Sale Date: 10/27/2015

Appraisal Method: 16' MBF

Contract #: ORR05-TS-2016.0007

Job File #: 144

Master Unit: Douglas

Planning Unit: South River

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Prospectus	5
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Consolidated Comments	17

Timber - Sale - Summary

Legal Description

Forest Type	Township	Range	Section	Subdivision
O&C	28S	3W	20	E1/2SE1/4
O&C	28S	3W	21	SW1/4, W1/2SE1/4
O&C	28S	3W	28	SW1/4NW1/4, W1/2SW1/4
O&C	28S	3W	29	SE1/4NE1/4, E1/2SE1/4
O&C	28S	3W	32	Lots 3 & 4, NE1/4NE1/4, S1/2NE1/4, SE1/4NW1/4, N1/2SE1/4
O&C	28S	3W	33	NW1/4NW1/4
PD	29S	3W	4	Lot 4
O&C	29S	3W	5	Lots 8, 9, 10 & 15
O&C	29S	3W	9	Lots 9, 10, 15, 16, 17, 18, 21 & 22
O&C	29S	4W	15	SW1/4NE1/4, S1/2NW1/4,N1/2SW1/4, SE1/4SW1/4, NW1/4SE1/4

Cutting Volume (16' MBF)

	Cutting volume (10 MDI)													
Unit	DF	GF	IC	WRC	PP	WH	SP		Total	Regen	Partial	ROW		
1	555	46	27	7	6	1			642	0	49	0		
2	236	20	11	3	2	1			273	0	23	0		
3	270	23	13	3	3	1			313	0	26	0		
4	248	2	28						278	0	23	0		
5	45	4	2	1	1				53	0	4	0		
6	562	46	27	8	5	1			649	0	51	0		
7	248	21	12	3	3	1			288	0	22	0		
8	177	2	20						199	0	16	0		
9	278	23	14	3	3	1			322	0	23	0		
10	225	19	11	3	2	1			261	0	20	0		
11	338	28	16	4	3	1			390	0	30	0		
12	214	18	10	3	2	1			248	0	19	0		
Spurs	107	2	44				3		156	0	0	4		
Totals	3,503	254	235	38	30	9	3		4,072	0	306	4		

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					_
	Logging Costs per 16' MBF		Profit & Risk		
Tra	amp to Truck	\$ 181.70 \$ 39.98	Total Profit & Risk Basic Profit & Risk 11 % + Additional Risk	11 % 0 % 0 %	
	ad Construction ad Amortization	\$ 54.43 \$ 0.00	Back Off Tract Features	0 %	
	ad Maintenance her Allowances :	\$ 5.88	Avg Log Douglas-fir : 40 bf Recovery Douglas-fir : 94 %	All : 41 bf All : 92 %	
	Equipment Cleaning	\$ 0.49	Salvage Douglas-fir: 0 %	All:0%	
	Misc Slash Disposal	\$ 0.46 \$ 2.73	Avg Volume (16' MBF per Acre) Avg Yarding Slope	13 45 %	%
	Total Other Allowances :	\$ 3.68	Avg Yarding Distance (feet) Avg Age	266 60	
			Volume Cable Volume Ground Volume Aerial	85 9 15 9 0 9	%
			Road Construction Stations	52.50	
			Road Improvement Stations	0.00	
			Road Renovation Stations	317.65	
			Road Decomission Stations Cruise	77.60	
				AF, MK, JL, BD, KC 03/12/2015	
Т	otal Logging Costs per 16' MBF	(\$ 285.66)	Type of Cruise	PCMTRE and 100%	
C	Utilization Centers enter #1 : Riddle, OR -SBA Utilization Center	17 Miles	County, State	Douglas, OR	
	enter #2	0 Miles	Net Volume Green (16' MBF)	4,072	
W	eighted distance to Utilization Centers Length of Contract	17	Salvage (16' MBF)	0	
Cı	utting and Removal Time	36 Months	Douglas-fir Peeler	35	
Pe	ersonal Property Removal Time	1 Months	Export Volume Scaling Allowance (\$0.75 per 16' MBF)	0 \$3,054.00	

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Roseburg Orb Weaver ORR05-TS-2016.0007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Stumpage Summary

Stumpage Computation (16' MBF)

Species	Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Cost	(+) Marginal Log Value	(-) Back Off	Appraised Price	Appraised Value
DF	27,612	3,503	\$ 513.23	\$ 56.46	\$ 285.66			\$ 171.10	\$ 599,363.30
GF	1,443	254	\$ 387.41	\$ 42.61	\$ 285.66			\$ 59.10	\$ 15,011.40
IC	2,680	235	\$ 423.61	\$ 46.60	\$ 285.66			\$ 91.40	\$ 21,479.00
WRC	624	38	\$ 607.88	\$ 66.87	\$ 285.66			\$ 255.40	\$ 9,705.20
PP	260	30	\$ 322.36	\$ 35.46	\$ 285.66			\$ 32.20	\$ 966.00
WH	85	9	\$ 366.73	\$ 40.34	\$ 285.66			\$ 40.70	\$ 366.30
SP	12	3	\$ 406.85	\$ 44.75	\$ 285.66			\$ 76.40	\$ 229.20
Totals	32,716	4,072							\$ 647,120.40

Log Code by Percent

Species	Code #1	Code #2	Code #3	Code #4	Code #5	Code #6
Douglas-fir			1.0	32.0	56.0	11.0
Grand Fir				45.0	48.0	7.0
Incense-cedar				37.0	49.0	14.0
Ponderosa Pine				26.0	65.0	9.0
Western red-cedar			50.0	50.0		
Western Hemlock					86.0	14.0
Sugar Pine				38.0	59.0	3.0

Marginal Log Volume

Species	Grade #7	Grade #8
Douglas-fir		
Grand Fir		
Incense-cedar		
Ponderosa Pine		
Western red-cedar		
Western Hemlock		
Sugar Pine		

Appraised By: Franks, Annie **Date:** 03/24/2015

Area Approval By: Franks, Annie Date: 09/15/2015

District Approval By: Snider, Douglas **Date:** 09/23/2015

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Prospectus

Appraisal Method: (16' MBF)

Species	Trees	Net Volume 16' MBF	Net Volume 32' MBF	Net Volume CCF
Douglas-fir	27,612	3,503	2,954	
Grand Fir	1,443	254	205	
Incense-cedar	2,680	235	181	
Western red-cedar	624	38	33	
Ponderosa Pine	260	30	24	
Western Hemlock	85	9	7	
Sugar Pine	12	3	3	
Total	32,716	4,072	3,407	

All Species

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
4,418	32,716	135	12.2	4,360	107,083	41

Merch Logs	Cull Logs	Total Logs	Logs per Tree	Net Volume	Gross Volume	Recovery
107,083	702	107,785	3.3	4,072	4,418	92 %

Douglas-fir

Gross Volume	Number Trees	Avg bf Volume Per Tree	DBH	Gross Merch Volume	Merch Logs	Avg bf Gross Merch Log
3,736	27,612	135	12.0	3,714	93,800	40

Merch	Cull	Total	Logs per	Net	Gross	Recovery
Logs	Logs	Logs	Tree	Volume	Volume	
93,800	326	94,126	3.4	3,503	3,736	94 %

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Cutting Areas

	Regen	Partial Cut	Right Of Way	Total
Unit	Acres	Acres	Acres	Acres
1		49		49
2		23		23
3		26		26
4		23		23
5		4		4
6		51		51
7		22		22
8		16		16
9		23		23
10		20		20
11		30		30
12		19		19
Spurs			4	4
Totals :		306	4	310

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Exhibit B

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

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

Sale Totals (16' MBF)

Species	Net Volume	Bid Price	Sale SubTotal
Douglas-fir	3,503		
Grand Fir	254		
Incense-cedar	235		
Western red-cedar	38		
Ponderosa Pine	30		
Western Hemlock	9		
Sugar Pine	3		
Sale Totals	4,072		

Unit Details (16' MB)

Unit 1 49 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	555		
Grand Fir	46		
Incense-cedar	27		
Ponderosa Pine	6		
Western Hemlock	1		
Western red-cedar	7		
Unit Totals	642		

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Unit	10	20 Acres	Value per Acre: \$0.0
Unit	10	20 Acres	Value per Acre : \$0.0

Species	Net Volume	Bid Price	Species Value
Douglas-fir	225		
Grand Fir	19		
Incense-cedar	11		
Ponderosa Pine	2		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	261		

Unit 11 30 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	338		
Grand Fir	28		
Incense-cedar	16		
Ponderosa Pine	3		
Western Hemlock	1		
Western red-cedar	4		
Unit Totals	390		

Unit 12 19 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	214		
Grand Fir	18		
Incense-cedar	10		
Ponderosa Pine	2		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	248		

Unit 2 23 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	236		
Grand Fir	20		
Incense-cedar	11		
Ponderosa Pine	2		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	273		

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Unit	3	26 Acres	Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	270		
Grand Fir	23		
Incense-cedar	13		
Ponderosa Pine	3		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	313		

Unit 4 23 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	248		
Grand Fir	2		
Incense-cedar	28		
Unit Totals	278		

Unit 5 4 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	45		
Grand Fir	4		
Incense-cedar	2		
Ponderosa Pine	1		
Western red-cedar	1		
Unit Totals	53		

Unit 6 51 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	562		
Grand Fir	46		
Incense-cedar	27		
Ponderosa Pine	5		
Western Hemlock	1		
Western red-cedar	8		
Unit Totals	649		

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Unit	7	22 Acres	Value per Acre: \$0.00
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Species	Net Volume	Bid Price	Species Value
Douglas-fir	248		
Grand Fir	21		
Incense-cedar	12		
Ponderosa Pine	3		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	288		

Unit 8 16 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	177		
Grand Fir	2		
Incense-cedar	20		
Unit Totals	199		

Unit 9 23 Acres Value per Acre: \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	278		
Grand Fir	23		
Incense-cedar	14		
Ponderosa Pine	3		
Western Hemlock	1		
Western red-cedar	3		
Unit Totals	322		

Unit Spurs 4 Acres Value per Acre : \$0.00

Species	Net Volume	Bid Price	Species Value
Douglas-fir	107		
Grand Fir	2		
Incense-cedar	44		
Sugar Pine	3		
Unit Totals	156		

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Sale Volume Totals

310 Acres 0 Regen	306 Partial	4 R/W	13 Units
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SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Net	16' MBF GM	16' MBF Gross	32' MBF Net	32' MBF GM	32' MBF Gross	CCF Net	CCF GM	CCF Gross
Douglas-fir	27,612	93,800	326	3,503	3,714	3,736	2,954	3,122	3,138	0	0	0
Grand Fir	1,443	5,156	162	254	276	294	205	223	238	0	0	0
Incense-cedar	2,680	5,472	192	235	273	289	181	210	223	0	0	0
Western red-cedar	624	1,491	16	38	47	49	33	41	42	0	0	0
Ponderosa Pine	260	869	0	30	34	34	24	27	27	0	0	0
Western Hemlock	85	254	0	9	12	12	7	8	8	0	0	0
Sugar Pine	12	41	6	3	4	4	3	3	3	0	0	0
Totals	32,716	107,083	702	4,072	4,360	4,418	3,407	3,634	3,679	0	0	0

Unit Totals

Unit: 1 49 Acres	0 Regen	49 Partial	0 R/W
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SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	4,333	14,866	32	592	589	555
Grand Fir	269	937	45	54	50	46
Incense-cedar	420	809	7	31	31	27
Western red-cedar	113	274	2	9	9	7
Ponderosa Pine	49	163		6	6	6
Western Hemlock	17	52		3	3	1
Unit Totals	5,201	17,101	86	695	688	642

Unit: 2	23 Acres	0 Regen	23 Partial	0 R/W

	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	1,832	6,325	12	252	251	236
Grand Fir	109	390	11	23	21	20
Incense-cedar	177	341	3	13	13	11
Western red-cedar	48	117	1	4	4	3
Ponderosa Pine	21	70		3	3	2
Western Hemlock	7	20		1	1	1
Unit Totals	2,194	7,263	27	296	293	273

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Unit: 3	26 Acres		0 Regen	ı	26 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,094	7,228	13	288	287	270
Grand Fir	123	445	12	26	25	23
Incense-cedar	202	390	3	15	15	13
Western red-cedar	55	134	1	4	4	3
Ponderosa Pine	24	80		3	3	3
Western Hemlock	8	23		1	1	1
Unit Totals	2,506	8,300	29	337	335	313

Unit: 4	23 Acres		0 Reger	1	23 Partial	0 R/W
G . N	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	2,134	7,115		261	261	248
Incense-cedar	158	435	45	40	36	28
Grand Fir	27	109		3	3	2
Unit Totals	2,319	7,659	45	304	300	278

Unit: 5	4 Acres		0 Reger	1	4 Partial	0 R/W
	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	350	1,206	2	48	48	45
Grand Fir	20	74	2	4	4	4
Incense-cedar	34	65	1	3	3	2
Western red-cedar	9	22		1	1	1
Ponderosa Pine	5	15		1	1	1
Unit Totals	418	1,382	5	57	57	53

Unit: 6	51 Acres		0 Regen		51 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	4,326	14,936	34	602	600	562
Grand Fir	251	910	25	53	50	46
Incense-cedar	412	796	6	31	31	27
Western red-cedar	126	298	6	11	10	8
Ponderosa Pine	49	163		6	6	5
Western Hemlock	16	48		2	2	1
Unit Totals	5,180	17,151	71	705	699	649

Unit: 7	22 Acres		0 Reger	ı	22 Partial	0 R/W
SpeciesName	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
	Trees	Logs	Logs	Gross	GM	Net

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Roseburg Orb Weaver ORR05-TS-2016.0007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Douglas-fir	1,920	6,626	12	264	263	248
Grand Fir	112	408	11	24	23	21
Incense-cedar	185	357	3	14	14	12
Western red-cedar	51	123	1	4	4	3
Ponderosa Pine	22	73		3	3	3
Western Hemlock	7	21		1	1	1
Unit Totals	2,297	7,608	27	310	308	288

Unit: 8	16 Acres		0 Reger	1	16 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,524	5,082		187	187	177
Incense-cedar	113	312	32	28	25	20
Grand Fir	19	78		2	2	2
Unit Totals	1,656	5,472	32	217	214	199

Unit: 9	23 Acres		0 Regen	l	23 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	2,190	7,342	46	296	294	278
Grand Fir	132	454	17	26	25	23
Incense-cedar	227	421	9	16	16	14
Western red-cedar	62	137	2	4	4	3
Ponderosa Pine	23	76		3	3	3
Western Hemlock	7	22		1	1	1
Unit Totals	2,641	8,452	74	346	343	322

Unit: 10	20 Acres		0 Regen		20 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,745	6,023	11	240	239	225
Grand Fir	102	371	10	22	20	19
Incense-cedar	168	325	3	13	13	11
Western red-cedar	46	112	1	4	3	3
Ponderosa Pine	20	66		3	3	2
Western Hemlock	6	20		1	1	1
Unit Totals	2,087	6,917	25	283	279	261

Unit: 11	30 Acres		0 Reger	ı	30 Partial	0 R/W
G . N	# of	Merch	Cull	16' MBF	16' MBF	16' MBF
SpeciesName	Trees	Logs	Logs	Gross	GM	Net
Douglas-fir	2,617	9,035	17	360	359	338
Grand Fir	153	557	16	33	31	28

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Unit Totals	3,130	10,376	37	422	419	390
Western Hemlock	11	29		1	1	1
Ponderosa Pine	28	100		4	4	3
Western red-cedar	70	168	1	5	5	4
Incense-cedar	251	487	3	19	19	16

Unit: 12	19 Acres		0 Regen		19 Partial	0 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	1,658	5,722	10	228	227	214
Grand Fir	97	353	10	21	19	18
Incense-cedar	160	309	2	12	12	10
Western red-cedar	44	106	1	3	3	3
Ponderosa Pine	19	63		2	2	2
Western Hemlock	6	19		1	1	1
Unit Totals	1,984	6,572	23	267	264	248

Unit: Spurs	4 Acres		0 Reger	1	0 Partial	4 R/W
SpeciesName	# of Trees	Merch Logs	Cull Logs	16' MBF Gross	16' MBF GM	16' MBF Net
Douglas-fir	889	2,294	137	118	109	107
Incense-cedar	173	425	75	54	45	44
Sugar Pine	12	41	6	4	4	3
Grand Fir	29	70	3	3	3	2
Unit Totals	1,103	2,830	221	179	161	156

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Roseburg Orb Weaver ORR05-TS-2016.0007

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT Stump to Truck Costs

Total (16' MBF)

Total Stump to	Net	Cost / Net
Truck Costs	Volume	Volume
\$ 739,883.67	4,072	\$ 181.70

Detail

Yarding & Loading

Yarding System	Unit Of Measure	Units	Cost / Unit	Total Cost
Short Twr<40	GM MBF	3,496	\$ 154.74	\$ 540,971.04
Short Twr<40	GM MBF	193	\$ 386.85	\$ 74,662.05
Wheel Skidder	GM MBF	203	\$ 111.19	\$ 22,571.57
Track Skidder	GM MBF	161	\$ 109.04	\$ 17,555.44
Shovel	GM MBF	271	\$ 141.07	\$ 38,229.97
Subtotal				\$ 693,990.07

Other Costs

Explanation	Unit Of Measure	Units	Cost / Unit	Total Cost
Direct Falling	GM MBF	40	\$ 19.09	\$ 763.60
Lift Trees	Per Tree	191	\$ 150.00	\$ 28,650.00
Int. Supports	Per Sprt.	22	\$ 250.00	\$ 5,500.00
Subtotal				\$ 34,913.60

Additional Move-Ins

Equipment	# Move-In	Cost / Move In	Total Cost
Yarder / Loader	41	\$ 150.00	\$ 6,150.00
Skidder	33	\$ 110.00	\$ 3,630.00
Other	8	\$ 150.00	\$ 1,200.00
Subtotal			\$ 10,980.00

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Other Allowances Costs

Total (16' MBF)

A	Total Other	Net Volume	Cost / Net Volume *	Total Buy Out Cost
	\$14,993.00	4,072	\$3.68	\$0.00

Equipment Cleaning

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost		
Yarder	\$ 330.00	\$ 0.08	N	\$ 0.00		
Shovel	\$ 660.00	\$ 0.16	N	\$ 0.00		
Track Skidder	\$ 660.00	\$ 0.16	N	\$ 0.00		
Wheel Skidder	\$ 330.00	\$ 0.08	N	\$ 0.00		
Subtotal	\$ 1,980.00	\$ 0.49		\$ 0.00		

Misc

Detail (16' MBF)

Cost Item	Total Cost	Cost / Net Vol *	Buy Out	Buy Out Cost
Skid Trail Subsoiling	\$ 1,035.00	\$ 0.25	N	\$ 0.00
Equipment Cleaning for subsoiling	\$ 165.00	\$ 0.04	N	\$ 0.00
Move-in for subsoiling	\$ 688.00	\$ 0.17	N	\$ 0.00
Subtotal	\$ 1,888.00	\$ 0.46		\$ 0.00

Slash Disposal

Detail (16' MBF)

	Total	Cost /	Buy	Buy Out	
Cost Item	Cost	Net Vol *	Out	Cost	
Landings-All (clean-up, covering, piling, burning)	\$ 7,625.00	\$ 1.87	N	\$ 0.00	
Hand Piling (covering, piling, burning)	\$ 3,500.00	\$ 0.86	N	\$ 0.00	
Subtotal	\$ 11,125.00	\$ 2.73		\$ 0.00	

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

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Consolidated Comments

General

Cruise: PCMTRE units 1 through 12, 20 BAF. All spurs and daylighting/road renovation 100% cruise.

Cruise acres on BLMCruiser printouts are different than Exhibit A and appraisal acres because riparian reserve (orange marked) acres were not removed. For cruise: Daylighting units as well as all spurs were given one acre each for cruise. All 7 spurs (volume and trees) were combined into one unit for appraisal and given 4 acres total. Daylighting units (volume and trees) were added into closest unit and no additional acres were added to unit for daylighting. Below is breakdown of acres used for cruise and approx. net volume per unit

```
Unit
      Acres Net MBF
      49
1
            638
2
      21
            273
3
      24
            313
4
      21
            278
5
            53
      49
6
            635
7
      22
             288
             199
8
      15
9
      23
             300
      20
10
             261
11
      30
             390
      19
12
             248
Spur1 1
              20
Spur2 1
              6
              18
Spur3 1
Spur4
              2
Spur5 1
              68
Spur6
       1
              19
       1
Spur7
              4 (road renovation of 29-4-15.1 - added into unit 1 for appraisal)
DL1
              22 (road renovation of 29-3-9.1 - added into spur3 for appraisal)
DL3
        1
DL<sub>6</sub>
        1
              14 (for appraisal, added into unit 6)
DL9
        1
              22 (for appraisal, added into unit 9)
Total 308
```

Volume (36 GM MBF) and costs associated with removal of timber on units DL6 and DL9, except transportation, will be accounted for in the engineering package. Transportation of volume from DL6 and DL9 will be accounted for in cruiser's appraisal package.

Yarding & Loading

Stump to Truck:

Short Twr<40: 3496 GM MBF @ \$154.74/GM MBF for uphill cable yarding (units 1,2,3,4,5,6,7,8,9,10, 11, and 12)

Short Twr<40: 193 GM MBF @ \$386.85/GM MBF for downhill cable yarding (units 1, 6, and 10) Wheel Skidder: 203 GM MBF @ \$111.19/GM MBF for skidding inside units (units 6, 8, and 10)

Track Skidder: 161 GM MBF @ \$109.04/GM MBF for all spurs

Shovel: 271 GM MBF @ \$141.07/ GM MBF (units 1, 2, 3, 6, 7, 9, 11, and 12)

Logging costs associated with DL6 and DL9 (daylighting) are included in the engineering package/cost

Other Yard & Loading Costs:

Directional Falling: Additional costs for directional falling due to powerlines within and next to unit 2 and 3, as well as private property and fence adjacent to unit 4 and large amount of riparian reserves.

Lift Trees: Estimate 191 lift trees @ \$150/lift tree

Intermediate Support: Estimate 22 intermediate supports @ \$250/intermediate support

Additional Move-Ins:

Yarder/Loader: Estimate 41 hours @ \$150/hour for within sale moves of the yarder and loader (11 hours for the yarder (for cable units) and 30 hours for loader (for cable, ground based and shovel units).

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Roseburg Orb Weaver ORR05-TS-2016.0007

Skidder: (Wheel and track skidder) Estimate 33 hours @ \$110/hour for within sale moves of the skidders (2) and the landing cat (22

hours for skidders (11 hours/skidder, all spurs and units 6, 8, 10) and 11 hours for landing cat for the cable units)

Other: Shovel: Estimate 8 hours @ \$150/hour for within sale moves of shovel (units 1, 2, 3, 6, 7, 11, 12)

Additional move-ins (shovel and loader) for DL6 and DL9 (daylighting) are included in the engineering package/costs

Road Costs

Logging Costs associated with daylighting/road renovation (\$10,961 total) included in engineering appraisal. See road construction summary for details.

(see Engineering Appraisal for details).

Transportation

Orb Weaver Transportation:

From weighted sale midpoint to jct. of DC #18 & 29-4-22.0: 3.6 miles 21.6 minutes

DC #18: from jct. w/29-4-22.0 to Old US #99: 6.9 miles 20.9 minutes

US #99, I-5, etc.: 6.9 miles 20.8 minutes

Mileage (one-way - 17.4 miles) was determined from weighted mid-point of volume

4360 GM MBF / 4.5 mbf/load = 969 total loads 969 total loads x 2.1 hours/load = 2035 hours

2035 hours x 80/hour = 162,800.00 (see Transportation appendix for details).

Other Allowances

-Slash Disposal:

Landing Machine Pile & Cover: 61 Cat and Cable Landings @ \$125.00/landing = \$7,625.00

Hand Piling Roadside Units: 2,3,6: Approx. 7 acres @ \$500.00/acre = \$3,500.00

Slash disposal for DL6 and DL9 are included in engineering package/costs

-Equipment Cleaning:

Cable Yarding side: 1 yarder, 1 loader, 1 Landing Cat @ 3 hrs./piece x \$55.00/hr x 2 seasons = \$990.00

Ground Base side: 1 Rubber Tired Skidder, 1 Track Skidder, 1 Loader @ 3hrs./piece x \$55.00/hr x 2 seasons = 990.00

-Skid Trail Subsoiling:

.58 miles of skid trails/.75 miles subsoiled/day = 1 day x 9 hrs/day = 9 hrs x 115.00/ hr = 1,035.00

Move-in for subsoiling, 1 Excavator x \$688.00 per move x 1 move-in = \$688.00 Equipment Cleaning for subsoiling: 1 Excavator @ 3 hrs/piece x \$55.00/hr = \$165.00

Total Skid Trail Subsoiling cost: \$1,888.00

Prospectus

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Version: 5.2.0.9

Summary of All Roads and Projects

Updated: 6/30/2014

T.S. Contract Name: Orb Weaver Tract No: 2016.0007 Sale Date: 10/27/2015
Prepared by: T.McNamara Ph: 464-3313 Print Date: 9/11/2015 10:52:14 AM Construction: 52.50 sta
Improve: 0.00 sta Renov: 317.65 sta Decom: 0.00 sta Temp: 0.00 sta
200 Clearing and Grubbing: 4.9 acres
300 Excavation:
400 Drainage:
500 Renovation:
700-1200 Surfacing:\$142,996.14 Commercial Quarry Name: 3" Base Course 4,592 LCY Commercial Quarry Name: 1.5" Surface Course 400 LCY
1300 Geotextiles: \$0.00
1400 Slope Protection: \$0.00
1800 Soil Stabilization: 0.0 acres
1900 Cattleguards: \$0.00
2100 RoadSide Brushing: 0.0 acres
2300 Engineering: 0.00 sta
2400 Minor Concrete:
2500 Gabions:
8000 Miscellaneous:
Mobilization: Const. \$8,048.76 Surf. \$2,786.32 \$10,835.08
Quarry Development:

Total: 4,072 mbf @ \$54.426/mbf = \$221,622.08

Notes:

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

Contract Name: Orb Weaver Sale Date: 10/27/2015 Tract No: 2016.0007

ROAD CONSTRUCTION SUMMARY

	1/ C	onst/I	mpr/Renov	/Decom/T	'emp	2/ yd-m	iles hau	1 3,	/ Lin ft	CMP	4/ Lin	ft Poly	pipe	5/ Lin f	Et Downs	spout	6/ slic	de remova	l cy
Road Number	Type 1/	Miles	Clear Grubb	Excav -ation	Drain -age	Reno- vation	Surf- acing	Geo- textile	Slope Protect		Cattle Guard	Rdside Brush		Minor Concrete	Gab- ions	Miscel- laneous		Quarry Develop	Sub- Total
28-3-21.0	R	0.44				\$642 0.44mi						\$187					\$32		\$860
28-3-21.1	R	0.26	\$2,016 0.8acres				\$17,030 553LCY					\$140					\$1,052		\$20,530
28-3-21.6	R	0.08				\$282						\$47					\$13		\$341
28-3-28.2	R	0.08	\$315 0.2acres			\$282						\$47					\$25		\$668
28-3-32.0	R	1.96				\$2,916 2.00mi						\$653					\$136		\$3,706
29-3-16.0	R	0.84					\$14,036 490LCY					\$280				\$10,063	\$1,251		\$26,855
29-3-5.0	R	0.28				\$408 0.28mi						\$140					\$21		\$569
29-3-9.1	R	0.38		\$1,359	\$1,619 4/ 36'	\$427 0.38mi	\$1,035 40LCY					\$280					\$203		\$4,923
29-3-9.2	R	0.09				\$875	\$7,854 295LCY					\$93				\$898	\$536		\$10,256
29-3-9.3	R	0.30				\$616 0.30mi						\$187					\$31		\$833
29-4-15.1	R	1.04				\$1,516 1.04mi	\$1,527 60LCY					\$373					\$164		\$3,581
Spur 1	С	0.06	\$746 0.2acres	\$1,218	\$1,439 4/ 32'		\$6,283 245LCY										\$507		\$10,192
Spur 2	С	0.11	\$996 0.4acres	\$1,827			\$11,236 422LCY										\$772		\$14,830
Spur 3	С	0.29	\$3,373 1.0acres	\$5,947	\$3,329 4/ 74'												\$483		\$13,131
Spur 4	C	0.13	\$1,633 0.5acres	\$2,436			\$13,952 527LCY										\$982		\$19,003
Spur 5	С	0.40	\$4,451 1.3acres	\$7,025			\$39,829 1368LCY										\$2,723		\$54,028
Spur 6	R	0.17	\$1,775 0.5acres	\$2,436			\$17,603 592LCY										\$1,163		\$22,977
Spur 7	R	0.11				\$845	\$12,610 400LCY					\$140					\$742		\$14,338

TIMBER SALE ROAD SPECIFICATIONS

TABLE OF CONTENTS

SECTION	DESCRIPTION
100	General
200	Clearing and Grubbing
300	Excavation and Embankment
400	Pipe Culverts
500	Renovation and Improvement of Existing Roads
600	Watering
1000	Aggregate Base Course - Crushed Rock
1200	Aggregate Surface Course - Crushed Rock
1300	Geotextiles
1400	Slope Protection
1700	Erosion Control
1800	Soil Stabilization
2100	Roadside Brushing

TIMBER SALE ROAD SPECIFICATIONS

GENERAL - 100

101 - Prework Conference(s):

A prework conference will be held prior to the start of new construction, improvement, renovation, and quarry development, surfacing, and mulching operations. The Purchaser shall request the conference at least 48 hours prior to the time it is to be held. The conference will be attended by the Purchaser and/or his representatives, subcontractors and/or his or their representatives and the Authorized Officer and/or his representatives.

The purpose of the prework conference will be to review the required work, exhibits and specifications, and to establish a work schedule and a list of the Purchaser's representatives and subcontractors.

102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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.

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

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

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

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

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

<u>Slash</u> – All material (brush, limbs, tops, unmerchantable stems, and chunks) severed or knocked over as a result of clearing or brushing operations.

<u>Slash Mulch</u> – Material consisting of clearing, grubbing, or logging debris, commonly used for road decommissioning. If slash mulch is not available, other mulches may be substituted as described in sections 1800 and 3500 of this contract.

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

102a - Tests Used in These Specifications:

AASHTO T 11

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 density of soil.

Method A - 4" mold, soil passing a No. 4 sieve

25 blows/layer & 3 layers.

Method C - 4" mold, soil passing a 3/4 inch sieve

25 blows/layer & 3 layers.

Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers.

AASHTO T 119

Slump of hydraulic cement concrete.

AASHTO T 152

Air content of freshly mixed concrete.

AASHTO T 166

Specific Gravity of compacted Bituminous Mixtures.

AASHTO T 176

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

AASHTO T 180

(OSHD 106-71) moisture density relationship of soil same as AASHTO T 99 proctor but uses a 10-lb rammer & 18-inch drop height.

AASHTO T 191

Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone, for rock surfacing 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 209

Maximum Specific Gravity of Bituminous Paving Mixtures.

AASHTO T 210

Durability of aggregates based on resistance to produce fines.

AASHTO T 224

Correction for coarse particles in the soil.

AASHTO T 238

Density of Soil and Soil-Aggregate in place by nuclear methods.

AASHTO T 248

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

ASTM D 4564

Determination of relative density of cohensionless soils.

DMSO (dimethyl sulfide)

Determines volume of expanding clays in aggregates. Usually associated with marine basalts.

- 103 Compaction equipment shall meet the following requirements:
- Padded Drum (Tamping) Rollers. The unit shall consist of a drum with pads, be either self propelled or towed by a tractor, and capable of operating at a speed of 6 mph. The drum shall be no less than 48 inches in diameter over the pads and not less than 60 inches in width. The pads shall have a minimum height of 3 inches, and a face area of not less than 14 square inches. The weight at drum shall be no less than 8000 lb.
- Sheepfoot (Tamping) rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

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

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

- 103c <u>Smooth-wheel power rollers.</u> Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.
- Pneumatic-tired rollers. Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

Each pneumatic-tired roller shall be drawn by equipment having sufficient power and weight under normal working condition to pull the roller at a minimum speed of 5 miles per hour, or it may be self-propelled to obtain a minimum speed of 5 miles per hour.

Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor

more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.

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 <u>Vibratory compactor.</u> 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.
- Drum drive self-propelled vibratory grid roller. The unit shall consist of one cylindrical drum with a drum diameter of not less than 56 inches, nor more than 66 inches and the drum width shall be 84 inches. Vibratory frequency shall be regulated in seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.
- 103i Other. Compaction equipment approved by the Authorized Officer.

CLEARING AND GRUBBING - 200

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.

201a -	This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.
202 -	Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 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 or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.
202b -	Where clearing limits for borrow pits, or quarries, stockpile sites ,channel changes, and ditches have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.
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, 202a, and 202b as posted.
203a -	Brush less than 2 feet in height need not be cut within the limits established for clearing.
203b -	Standing trees and snags to be cleared shall be felled within the limits established for clearing unless otherwise authorized.
204 -	Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, 204c and 204d.
204a -	Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
204b -	Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.

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204c -

On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.

- 204d On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 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 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.
- 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

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, 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 lines, grades, dimensions, and typical cross sections shown on the plans.
- 302 Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with

these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes or metal tags.

- 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.
- Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earthmoving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 12 inches in depth.
- Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers.
 Material containing more than 25 percent rock not larger than 12- inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12-inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- Layers of embankment, selected borrow, final subgrade and selected roadway excavation material as specified under Subsections 305a, and 305b shall be moistened or dried to a uniform optimum moisture content suitable for maximum density and compacted to full width with compacting equipment conforming to requirements of Subsections 103f and 103i.

- Optimum moisture content shall be determined by hand clump test i.e., where a soil sample forms a firm ball by hand that does not crumble, free moisture is not visible on the surface, and material does not squeeze between fingers.
- 306b Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be a minimum of 4 complete passes or until visual displacement ceases.
- In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.
- The top of cut slopes shall be rounded by blending into the adjacent terrain for a distance not less than 1 foot and not more than 3 feet beyond the top of the cut. Rounding shall be performed in soils that can be shaped without ripping or blasting.
- When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306 and 306a.
- 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.
- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water.
 Such materials shall be disposed of in accordance with Subsection 321c.
 Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of 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.
- In the construction of channel changes and stream-crossing embankment sections, natural stream flow shall be maintained unless otherwise provided.
- Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- The finished grading shall be approved by the Authorized Officer in segments or for the total project. The Purchaser shall give the Authorized Officer 3 days' notice prior to start of surfacing operations.

PIPE CULVERTS - 400

- This work shall consist of furnishing and installing pipe culverts and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed and upon installation of the appurtenance structures. Additional pipe and erosion control devices may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost of furnishing and installing such items. Costs will be based upon the unit prices set forth in the current BLM Timber Appraisal Production Cost Schedule.
- Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.

- 405b Corrugated-aluminum-alloy pipe culverts and pipe-arch culverts shall conform to the requirements of AASHTO M 196.
- Corrugated-polyethylene pipe for culverts 12-inch through 36-inch diameter shall meet the requirements of AASHTO M 294. Installation will be subject to the same specification as other pipe materials.
- Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge and material as the pipe to which they are joined.
 Metal pipe shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the
 downstream end with the inside circumferential laps pointing downstream and
 with the longitudinal laps at the side or quarter points. Coupling bands of the type
 required under these specifications shall be installed so as to provide the
 circumferential and longitudinal strength necessary to preserve the pipe
 alignment, prevent separation of the pipe sections, and minimize infiltration of fill
 material.
- Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Installation Detail Sheet.
- Where ledge rock or boulders are encountered, they shall be excavated a
 minimum of 10 inches below the invert grade for a width of at least 2 feet on each
 side of the pipe and shall be backfilled with compacted select fill.
- 412a Where soft or spongy soils are encountered, they shall be excavated a minimum of 2 feet below the invert grade for a width of at least one pipe diameter on each side of the pipe and shall be backfilled with compacted select fill.

- Pipe culverts shall be bedded on select fill material, having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.
- Select fill material for pipe culverts shall be fine readily compactable soil, or crushed rock material in accordance with Section 1204 gradation C, as shown on the plans.
- 417 For pipe culverts:
 - Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 12 inches in depth and 1 pipe diameter/span, or a minimum of 2 feet in width each side of, and adjacent to, the full length of the pipe barrel. Each layer shall be moistened or dried to uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers as specified in Subsection 306 and 306a.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- The pipe culvert after being bedded and backfilled as required by these specifications shall be protected by a 1-foot cover of fill before heavy equipment is permitted to cross the drainage structure. Removal of the protection fill shall be as directed by the Authorized Officer.
- Construction of catch basins conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for culverts.
- Construction of splash pads conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for culverts as stated on the renovation notes and culvert summary.
- Record culvert sizes, lengths and location actually installed on a copy of the culvert list. This culvert list shall be furnished to the Authorized Officer.

- 428 Remove and dispose of old culverts in a legal manner, and for any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.
- Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water in a manner that will avoid damage to adjacent property. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, brushing vegetation from cut and embankment slopes, daylighting and installing, cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans and as marked on the ground with metal tags.
- 501a This work shall include the removal and disposal of slides in accordance with these specifications.
- The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with metal tags.
- Focks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- 504 Existing road surface 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 Subsections103f and 103i.
- 504a Minimum compaction required shall be a minimum of 3 passes over each full-width layer, or until visual displacement ceases.

- The inlet end of existing drainage structures shall be cleared of vegetative debris and boulders that are of sufficient size to obstruct normal stream flow. Pipe inverts shall be cleared of sediment and other debris lodged in the barrel of the pipe. The outflow area of pipe structures shall be cleared of rock and vegetative obstructions which will impede the structure's designed outflow configuration. Catch basins shall conform to the lines, grade, dimensions, and typical diagram shown on the plans.
- The finished grading shall be approved by the Authorized Officer 1 day prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.
- Daylighting shall include removing shrubs and trees within 33 feet from the centerline of existing roads, as shown on the plans and marked on the ground, in accordance with Section 200 (Clearing and Grubbing).
- Trees reserved from cutting are marked with orange paint, and shall be limbed to a minimum height of 14 feet above the running surface of the roadway.
- 510b All slash generated during daylighting operations shall be piled and covered with plastic sheeting, unless otherwise directed by the Authorized Officer.

WATERING - 600

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

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.

AGGREGATE BASE COURSE - 1000 CRUSHED ROCK MATERIAL

- This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.
- 1002a Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- In accordance with Subsections 1005, 1006, and 1006a, the following test reports for crushed rock material shall be submitted to, and approved by, the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T96, AASHTO T210, and DMSO. Tests must have been conducted within the last 365 days and be for the same quarry shot that the crushed rock is coming from. New tests must be performed if there is a new shot, or other change in the material being supplied to the crusher.
- In accordance with Subsection 1004, the following test reports for crushed rock material shall be submitted to and approved by the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T11 and AASHTO T27.
- 1003 Crushed rock material produced from gravel shall have 2 manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve.
- 1004 Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004 AGGREGATE BASE COURSE CRUSHED ROCK MATERIAL

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

Sieve Designation	А	В	С	D	F	G	Н	I
6-inch		-	-	-	-	-	-	100
3-inch	100-	-	100	-	100	-	-	45-65
2-inch	90-95	100	-	100	65-95	100	100	-
1 1/2-inch	-	90-95	-	-	-	-	-	-
1-inch	45-75	50-90	-	-	-	50-85	60-90	-
3/4-inch	-	-	-	-	28-70	-	-	-
1/2-inch	-	-	-	-	-	27-60	44-70	-
3/8-inch	-	-	-	-	-	-	-	-
No. 4	15-45	15-50	-	-	10-35	15-40	28-50	0-10
No. 8	-	-	-	-	-	-	20-41	-
No. 10	-	-	-	-	-	-	-	-
No. 30	-	-	-	-	5-22	8-26	9-26	-
No. 40	5-25	5-25	1	-	-	-	-	-
No. 200	2-15	2-15	-	-	3-10	3-12	3-12	-

1005 - Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.

1006 - Crushed rock material shall show durability value of not less than 35, as determined by AASHTO T 210.

- The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.
- Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 3 days' notice prior to that inspection.
- 1010 Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.
- Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f and 103i. Minimum compaction shall be 3 passes over each full-width layer or until visual displacement ceases.

AGGREGATE SURFACE COURSE – 1200 CRUSHED ROCK MATERIAL

- This work shall consist of furnishing, hauling, and placing one or more layers of crushed rock material on roadbeds and base courses approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.
- 1202a Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- 1203 When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces.
- 1204 Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204 AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

Percentage by weight passing square mesh sieves AASHTO T 11 & T 27

GRADATION

Sieve Designation	С	C-1	D	D-1	Е	E-1
1-1/2-inch	100	100	-	-	-	-
1-inch	-	-	100	100	-	-
3/4-inch	50-90	60-90	-	70-98	100	100
1/2-inch	-	-	-	-	-	70-98
No. 4	25-50	30-55	30-60	36-60	40-75	44-70
No. 8	-	22-43	-	25-47	-	30-54
No. 30	-	11-27	-	12-31	-	15-34
No. 40	5-25	1	5-30	1	5-35	-
No. 200	2-15	3-15	3-15	3-15	2-15	3-15

- 1205 Crushed rock material retained on the No. 4 sieve shall have a percentage of loss of not more than 35 at 500 revolutions, as determined by AASHTO T 96.
- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.
- 1206a The crushed rock material shall show a loss of not more than (20) percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

- 1208a Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- Shaping and compacting of roadbed base course shall be completed and approved prior to placing crushed rock material, in accordance to the requirements of Subsections 300 and 500 Notification for final inspection prior to rocking shall be 72 hours prior to the inspection.
- 1210 Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification unless approved by the Authorized Officer.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsections 103fand 103i. Minimum compaction shall be 6 passes over each full-width layer, or until visual displacement ceases.
- 1216 The Purchaser shall place in stockpile 300 cubic yards load ticket measure of Gradation 1204C crushed rock material at site shown on the plans. This work is required for road acceptance under Section 18 of this contract.

Such material shall be used to reinforce and repair areas of deficient support which appear during the hauling operation.

1218 - The equipment and methods used for stockpiling crushed rock material and for removing material from the stockpiles shall be such that minimum degradation or segregation of the material will result and that minimal amounts of foreign material will be incorporated into the crushed base material and that there will be no intermingling of stockpiled materials.

GEOTEXTILES – 1300

- 1301 This work shall consist of furnishing, hauling, and installing geotextile material at the locations and in accordance with these specifications and the lines, grades, dimensions, and typical cross sections shown on the plans.
- Use long-chain, synthetic polymers, composed of at least 95 percent by mass of polyolefins or polyesters, to manufacture geotextile or the threads used to sew geotextile.
- 1303 Furnish to the Authorized Officer a commercial certification including the name of the manufacturer, product name, style number, chemical composition of the filaments or yarns, and other pertinent information to fully describe the geotextile.
- 1303a Each roll of geotextile material shall be labeled to provide for identification of the material. Elevate and protect rolls with a waterproof cover if stored outdoors.
- When using a geotextile for a permanent installation limit material exposure to ultraviolet radiation to less than 10 days. Geotextile material deemed to have been overexposed to sunlight by the Authorized Officer shall be rejected.
- Where material separation is required, clearing, grubbing, and excavation of the subgrade shall be completed prior to the placement of geotextile material. The subgrade shall be leveled and smoothed to remove lumps and depressions which exceed 6 inches in height and depth. Small pieces of woody debris shall be removed. Light vegetation, i.e., grasses, weeds, leaves, and other small woody debris, may be left in place.

- The geotextile material shall be installed directly on the prepared surface. Place the geotextile smooth and free of tension, stress, or wrinkles. Fold or cut the geotextile to conform to curves. Overlap in the direction of construction. Overlap the geotextile a minimum of 2 feet at the ends and sides of adjoining sheets, or sew the geotextile joints according to manufacturer's recommendations. Do not place longitudinal overlaps below anticipated wheel loads. Hold the geotextile in place with pins, staples, or piles of cover material.
- 1310 Repair or replace all geotextile that is torn, punctured, or muddy. Remove the damaged area and place a patch of the same type of geotextile overlapping 3 feet beyond the damaged area.

EROSION CONTROL – 1700

- This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- This work shall consist of furnishing and installing silt fences, straw bales, geofabric rolls, or similar erosion control devices in accordance with these specifications and in reasonably close conformity with the lines and grades as directed by the Authorized Officer.
- Additional erosion control work consisting of furnishing and installing silt fences, straw bales, geofabric rolls, or similar erosion control devices, may be required at the option of the Authorized Officer. Providing the additional erosion control is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and installing such additional erosion control devices. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

- 1704 The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
- 1708a Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

SOIL STABILIZATION – 1800

- 1801 This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications. This work is not required for road acceptance under Section 18 of this contract.
- 1802a Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, landings and disposal sites in accordance with these specifications and as shown on the plans.
- 1803 Soil stabilization work as specified under Subsections 1802 and 1802a shall be performed during the following seasonal periods:

From: September 15	To: October 31

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas (in accordance with Subsection 1701) and then complete the requirements of Section 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.

- Additional soil stabilization work consisting of seeding and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.
- 1808 Mulch materials conforming to the requirements of Subsection1808a shall be furnished by the Purchaser.
- Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.
- Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.
- 1815b Dry Method Blowers, mechanical seeders or other approved mechanical seeding equipment may be used when seed and mulch 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.
- 1820 When sprayed, the mix or slurry must overlap on the ground uniformly so that there will be no voids in the treated areas.
- Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.

- 1822 No materials shall be applied when wind velocities would prevent a uniform application of the mix or slurry or when winds would drift the mix or slurry spray outside of the designated treatment area.
- 1823 Mix or slurry will not be applied above the upper edge of cut banks unless otherwise specified.
- Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING – 2100

- 2101 This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment and/or manually with hand tools, including chain saws.
- Vegetation cut manually and/ or mechanically less than 6 inches in diameter when measured 6 inches above the ground shall be cut to a maximum height of 2 inches above the ground surface or above obstructions such as rocks or stumps on cut and fill slopes and all limbs below the 2 inch area will be severed from the trunk.
- 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 4 inches above the ground and running surface. Limbs below the 4 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.

- Trees in excess of 8 inches in diameter when measured 6 inches above the ground line 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.
- 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.
- Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a distance of 15 feet from edge of subgrade, whichever is achieved first.
 Overhanging limbs and vegetation in excess of 1 foot in height shall be cut within these areas.
- 2108 Self-propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2115 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT ROSEBURG DISTRICT TIMBER SALE EXHIBIT C

CONTRACT NAME:

ORB WEAVER

CONTRACT NO: ORR05-TS-2016.0007

ROAD NUMBER	STA/MP	то	STA/MP	CONST.	RENOV.	EXISTING SURFACE	PROPOSEI	D BASE COURSE		ED SURFACE OURSE	ROAD	DIMENS	SIONS	TYP. ROAD	SHEET
RUAD NUMBER	31A/ WIF	10	JIA) WII	001131.	INCINOV.	TYPE	DEPTH	TYPE	DEPTH	TYPE	Α	В	C	SECTION	NO.
28-3-21.0	0+00	_	23+40		Х	ROCK				93		EXISTING	;	4	4
28-3-21.1	0+00	-	13+60		X	NATIVE	6"	1004A			16'	14'		4	4
28-3-21.6	0+00	-	4+00		X	ROCK						EXISTING		4	4
28-3-28.2	0+00	_	4+00		X	ROCK						EXISTING		4	4
28-3-32.0	0+00	-	103+50		X	ROCK						EXISTING		4	4
29-3-5.0	0+00	-	14+65		X	ROCK						EXISTING		4	4
29-3-9.1	0+00	-	20+10		X	NATIVE						EXISTING	;	4	4
29-3-9.2	0+00	-	5+00		X	NATIVE	9"	1004A			16'	13'		4	5
29-3-9.3	0+00	_	15+70	A STATE OF	X	ROCK						EXISTING	;	4	5
29-3-16.0	139+45	-	141+50		Х	ROCK	12"	1004A			16'	14		4	5
29-3-16.0	164+80	-	174+75		X	ROCK						EXISTING	;	4	5 🚽
29-3-16.0	197+50	_	229+75		Х	ROCK						EXISTING	;	4	5
29-4-15.1	0+00	_	54+80		X	ROCK			*	1004A		EXISTING	; 	4	5
SPUR 1	0+00	_	3+25	X			9"	1004A			16'	13'		1 & 2	7
SPUR 2	0+00	_	5+90	X			9"	1004A			16'	13'		1 & 5	7
SPUR 3	0+00	_	15+30	X					- 2			14'		1 & 2	8
SPUR 4	0+00	_	7+05	X			9"	1004A			16'	13'		1 & 2	7
SPUR 5	0+00	_	21+00	X			9"	1004A			16'	13'		1 & 5	9
SPUR 6	0+00	-	8+80		X	NATIVE	9"	1004A			16'	13'		1 & 2	6
SPUR 7	0+00	_	5+85		X	NATIVE	9"	1004A			16'	13'		5	6

*SPOT SURFACING

	INDEX OF SHEETS
SHEET	DESCRIPTION
1	ROAD SUMMARY
2	TYPICAL SECTIONS
3	VICINITY MAP
4-6	RENOVATION NOTES
7	CONST. PLAN SPURS 1, 2 & 4
8	CONST. PLAN SPUR 3
9	CONST. PLAN SPUR 5
10	CULVERT SUMMARY
11	CULVERT INSTALLATION
12	BRUSHING DETATIL

REV. NO. DESCRIPTION DATE APPROVED

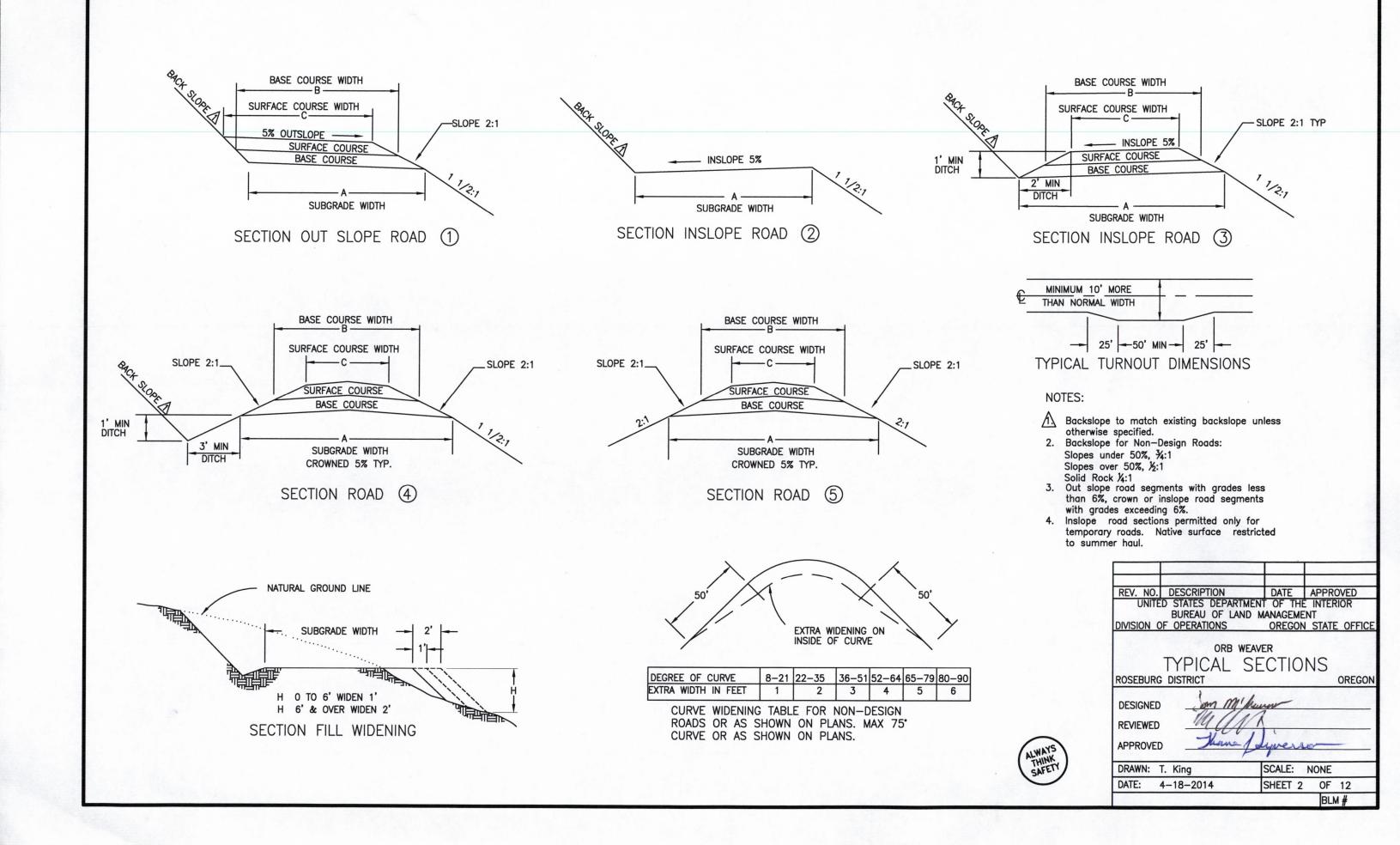
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF OPERATIONS OREGON STATE OFFICE

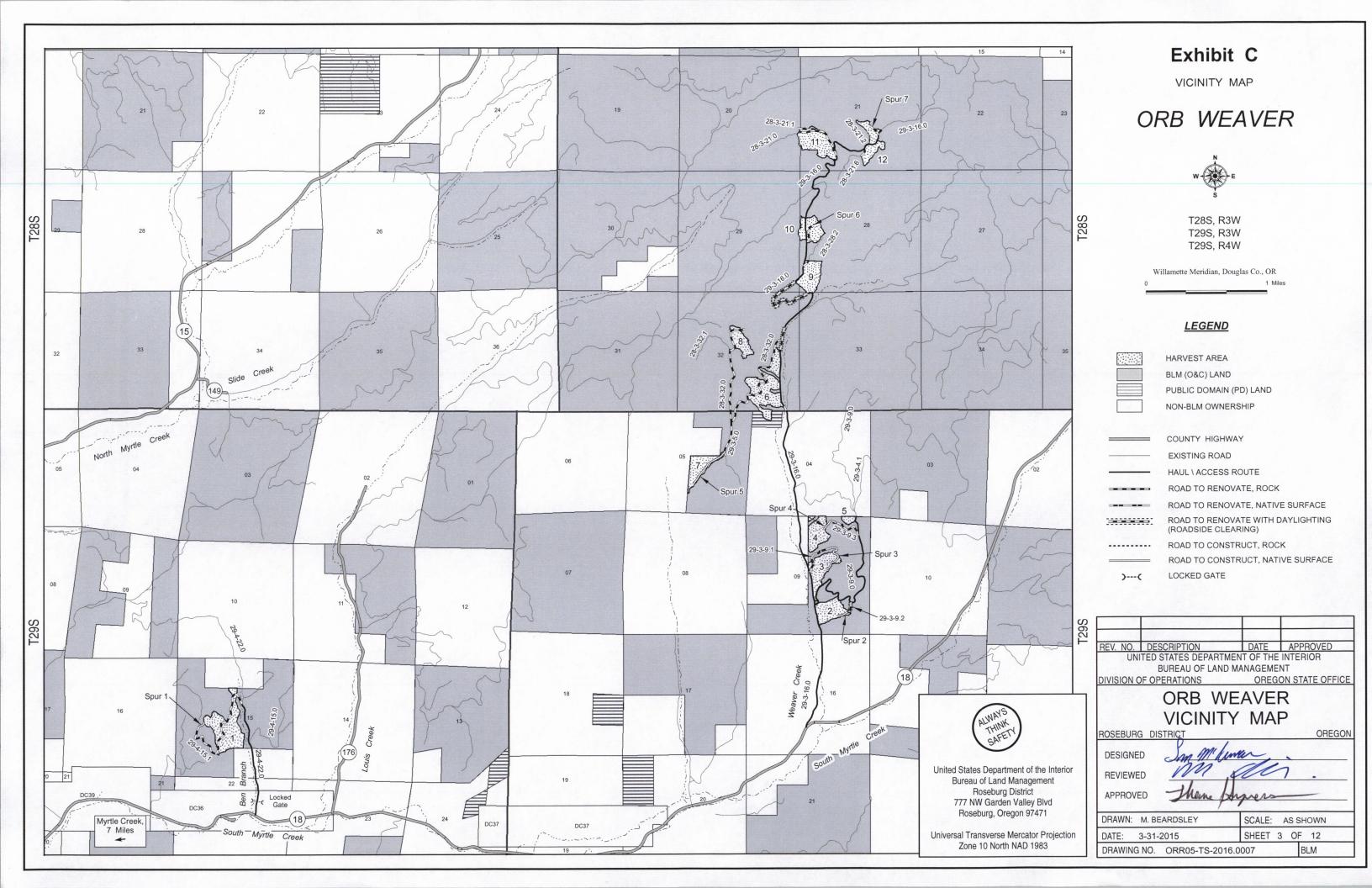
ORB WEAVER
ROSEBURG DISTRICT OREGON

ENGINEERING APPROVAL
SUBMITTED
RECOMMENDED
APPROVED

DRAWN: TOM MCNAMARA SCALE: AS SHOWN
DATE: 03/27/2015 SHEET 1 OF 12
BLM #







ROAD RENOVATION

Notes:

- 1. All roads shall be renovated in accordance with attached specifications and the work items listed below. Renovation may include roadside brushing, installing culverts and splash pads, blading, shaping, cleaning ditches, removing slide material, and cleaning existing drainage structures. Features to construct are so noted. Existing features are noted at approximate station in the notes below. The Purchaser shall dispose of all culvert pipe removed as a part of the work described in this contract at a legal site off of BLM land.
- 2. All renovation and construction shall be done and approved prior to any hauling activity.
- 3. Existing turnouts, on roads to be surfaced, shall be surfaced to the same standard as the road.
- 4. Back slopes shall be cut to match existing unless otherwise specified. 5. All work shall be performed according to OSHA safety requirements.

29-3-5.0 JUNCTION LEFT

28-3-32.1 JUNCTION LEFT

Appraisal for	roadside clearing and piling is in the "Logging Costs" section of the app	oraisal. Refer to ti	mber sale road specifications Section 510 for definition of daylighting.
STATION	DESCRIPTION	STATION	DESCRIPTION
	28-3-21.0		28-3-32.0 CONTINUED
0+00	BEGIN RENOVATION AT JUNCTION OF 28-3-21.0 AND 29-3-16.0 BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE AND COMPACT	90+60	ENTER UNIT 8
11.05	28-3-21.1 JUNCTION RIGHT	102+70	LEAVE UNIT 8
11+25		103+50	END RENOVATION
23+40	END RENOVATION		29-3-5.0
0+00	28-3-21.1 BEGIN RENOVATION AT JUNCTION OF 28-3-21.1 AND 28-3-21.0	0+00	BEGIN RENOVATION AT JUNCTION OF 29-3-5.0 AND 28-3-32.0 BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE AND COMPACT
	BEGIN BRUSHING, CLEARING, GRUBBING, PULL DITCH, BLADE AND COMPACT SURFACE WITH 6" OF 1004A AGGREGATE BASE COURSE	13+50	SPUR 5 JUNCTION RIGHT
12+25	LEAVE UNIT 11	14+65	END RENOVATION
13+60	END SURFACING. END RENOVATION		29-3-9.1
	28-3-21.6	0+00	BEGIN RENOVATION AT JUNCTION OF 29-3-9.1 AND 29-3-16.0 BEGIN BRUSHING, PULL DITCH, BLADE, COMPACT AND CLEARING OF ALL TREES
0+00	BEGIN RENOVATION AT JUNCTION OF 28-3-21.6 AND 29-3-16.0 BEGIN BRUSHING, PULL DITCH, BLADE AND COMPACT		WITHIN THE CLEARING LIMITS. DECK MERCH. SCATTER/PILE NON-MERCH.
4+00	END RENOVATION	0+15	INSTALL 18" X 36' CULVERT, BACKFILL WITH CRUSHED ROCK
4100	ROAD TO BE BLADED UPON COMPLETION OF HAUL	5+25	LEAVE UNIT 3
	28-3-28.2	10+80	BEGIN CENTERLINE SHIFT 5 FEET RIGHT
0+00	BEGIN RENOVATION AT JUNCTION OF 28-3-28.2 AND 29-3-16.0 BEGIN BRUSHING, CLEARING, GRUBBING, PULL DITCH, BLADE AND COMPACT	11+80	END CENTERLINE SHIFT
4+00	END RENOVATION	13+00	BEGIN CENTERLINE SHIFT 5 FEET RIGHT
77.00	28-3-32.0	14+60	END CENTERLINE SHIFT REV. NO. DESCRIPTION DATE APPROVED
0+00	BEGIN RENOVATION AT JUNCTION OF 28-3-32.0 AND 29-3-16.0	16+80	BEGIN CENTERLINE SHIFT 5 FEET RIGHT UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT BUREAU OF CAPERATIONS OPERATIONS OPERATIONS
0100	BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE AND COMPACT	17+80	END CENTERLINE SHIFT DIVISION OF OPERATIONS OREGON STATE OFF ORB WEAVER
4+75	ENTER UNIT 6	20+10	END RENOVATION; BEGIN CONSTRUCTION SPUR 3 RENOVATION NOTES
10+25	LEAVE UNIT 6		ALWAYS THINK SAFETY DESIGNED ROSEBURG DISTRICT ORE ORE
11+75	ENTER UNIT 6		
14+35	LEAVE UNIT 6		REVIEWED LILLIAN SHARE

SCALE: AS SHOWN

SHEET 4 OF 12

BLM #

DRAWN: TOM MCNAMARA

DATE: 03/27/2015

ROAD RENOVATION CONTINUED

STATION	DESCRIPTION	<u>STATION</u>	DESCRIPTION	
	29-3-9.2		29-3-16.0 CONTINUED	
0+00	BEGIN RENOVATION AT JUNCTION OF 29-3-9.2 AND 29-3-9.0	107+30	28-3-32.0 JUNCTION LEFT	
	BEGIN BRUSHING, BLADE, COMPACT AND CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS. DECK MERCH. SCATTER/PILE NON-MERCH.	174+75	END CLEARING, END RENOVATION	
	SURFACE WITH 9" OF 1004A AGGREGATE BASE COURSE	185+50	STOCK PILE 400 CUBIC YARDS OF 1.5" MINUS AGGREGATE (SPEC NO. 1204	4C)
0+50	REMOVE TRENCH BARRIER	187+90	28-3-33.0 JUNCTION RIGHT	
4+00	SPUR 2 JUNCTION RIGHT	197+50	BEGIN RENOVATION;	
5+00	END RENOVATION	137130	BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE, COMPACT AND CLE OF ALL TREES WITHIN THE CLEARING LIMITS. DECK MERCH. SCATTER/PILE	EARING
	29-3-9.3		NON-MERCH.	
0+00	BEGIN RENOVATION AT JUNCTION OF 29-3-9.3 AND 29-3-9.0 BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE AND COMPACT	229+75	END CLEARING, END RENOVATION	
7+00	REMOVE DOWNED LOG	237+75	28-3-28.2 JUNCTION RIGHT	
14+25	SPUR 4 JUNCTION RIGHT	248+10	SPUR 6 JUNCTION RIGHT, ENTER UNIT 10	
		259+10	LEAVE UNIT 10	
15+70	END RENOVATION	274+60	28-3-28.0 JUNCTION LEFT, 28-3-28.1 JUNCTION RIGHT	
	29-3-16.0	296+20	ENTER UNIT 11	
0+00	STATIONING BEGINS AT JUNCTION OF 29-3-16.0 AND COUNTY #18	298+80	28-3-21.0 JUNCTION LEFT	
45+40	ENTER UNIT 2	302+20	LEAVE UNIT 11	
54+00	29-3-9.0 JUNCTION RIGHT	317+50	28-3-21.6 JUNCTION RIGHT	
54+50	LEAVE UNIT 2	318+20	ENTER UNIT 12	
56+40	ENTER UNIT 3	321+25	28-3-21.2 JUNCTION LEFT	
67+00	29-3-9.1 JUNCTION RIGHT	328+10	SPUR 7 JUNCTION LEFT	
68+00	LEAVE UNIT 3	330+40	LEAVE UNIT 12; END OF PROJECT	
139+45	BEGIN RENOVATION; BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE AND COMPACT		29-4-15.1	REV. NO. DESCRIPTION DATE APPROVED UNITED STATES DEPARTMENT OF THE INTERIOR
140+20	BEGIN TAPER OF 12" LIFT OF 1004A AGGREGATE BASE COURSE	0+00	BEGIN RENOVATION AT JUNCTION OF 29-4-15.1 AND 29-4-22.0 BEGIN BRUSHING, BLADE AND COMPACT	BUREAU OF LAND MANAGEMENT DIVISION OF OPERATIONS OREGON STATE OFFICE
140+45	INSTALL GEO FABRIC AND SURFACE WITH 12" OF 1004A AGGREGATE BASE COURSE		SPOT ROCK WITH 4" OF 1004A AGGREGATE BASE COURSE WHERE DIRECTED BY AUTHORIZED OFFICER	orb weaver RENOVATION NOTES
141+25	END GEO FABRIC, BEGIN TAPER OF 1004A AGGREGATE BASE COURSE	1+20	PLACE 10 CUBIC YARDS OF 1004A AGGREGATE BASE COURSE	ROSEBURG DISTRIGIT OREGON
141+50	END TAPER OF 1004A AGGREGATE BASE COURSE, END RENOVATION	2+40	BEGIN PULLING DITCH AND CLEAN CULVERTS ALWAYS THINK SAFETY	DESIGNED Im M'Agyran
164+80	BEGIN RENOVATION;	4+00	ENTER UNIT 1	REVIEWED // C/V
	BEGIN BRUSHING, CLEAN CULVERTS, PULL DITCH, BLADE, COMPACT AND CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS. DECK MERCH. SCATTER/PILE	35+70	LEAVE UNIT 1	DRAWN: TOM MCNAMARA SCALE: AS SHOWN
	NON-MERCH.	54+80	SPUR 1 JUNCTION RIGHT END RENOVATION	DRAWN: TOM MCNAMARA SCALE: AS SHOWN DATE: 01/08/2015 SHEET 5 OF 12

BLM #

ROAD RENOVATION CONTINUED

STATION	DESCRIPTION
	SPUR 6
0+00	BEGIN RENOVATION AT JUNCTION OF SPUR 6 AND 29-3-16.0 BEGIN CLEARING, GRUBBING, BLADE AND COMPACT SURFACE WITH 9" OF 1004A AGGREGATE BASE COURSE
7+80	CONSTRUCT 30' X 100' LANDING
8+80	END RENOVATION
	SPUR 7
0+00	BEGIN RENOVATION AT JUNCTION OF SPUR 7 AND 29-3-16.0 BEGIN BRUSHING, BLADE, COMPACT AND CLEARING OF ALL TREES WITHIN THE CLEARING LIMITS. DECK MERCH. SCATTER/PILE NON MERCH. SURFACE WITH 9" OF 1004A AGGREGATE BASE COURSE
5+85	END RENOVATION

REV. NO. DESCRIPTION DATE APPROVED

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DIVISION OF OPERATIONS OREGON STATE OFFICE

ORB WEAVER
RENOVATION NOTES



RENOVATION NOTES

ROSEBURG DISTRICT OREGON

DESIGNED Manual

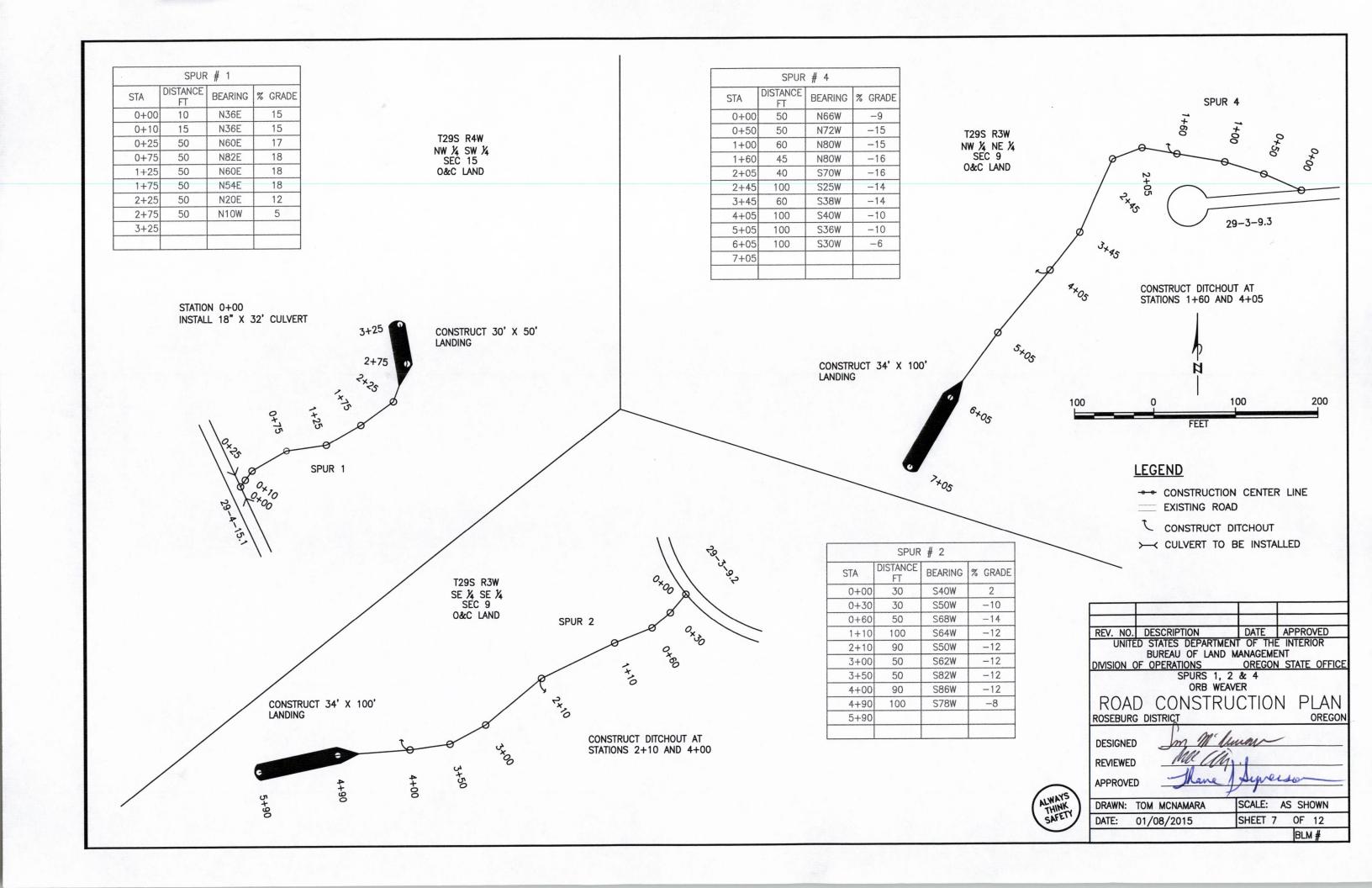
REVIEWED

APPROVED

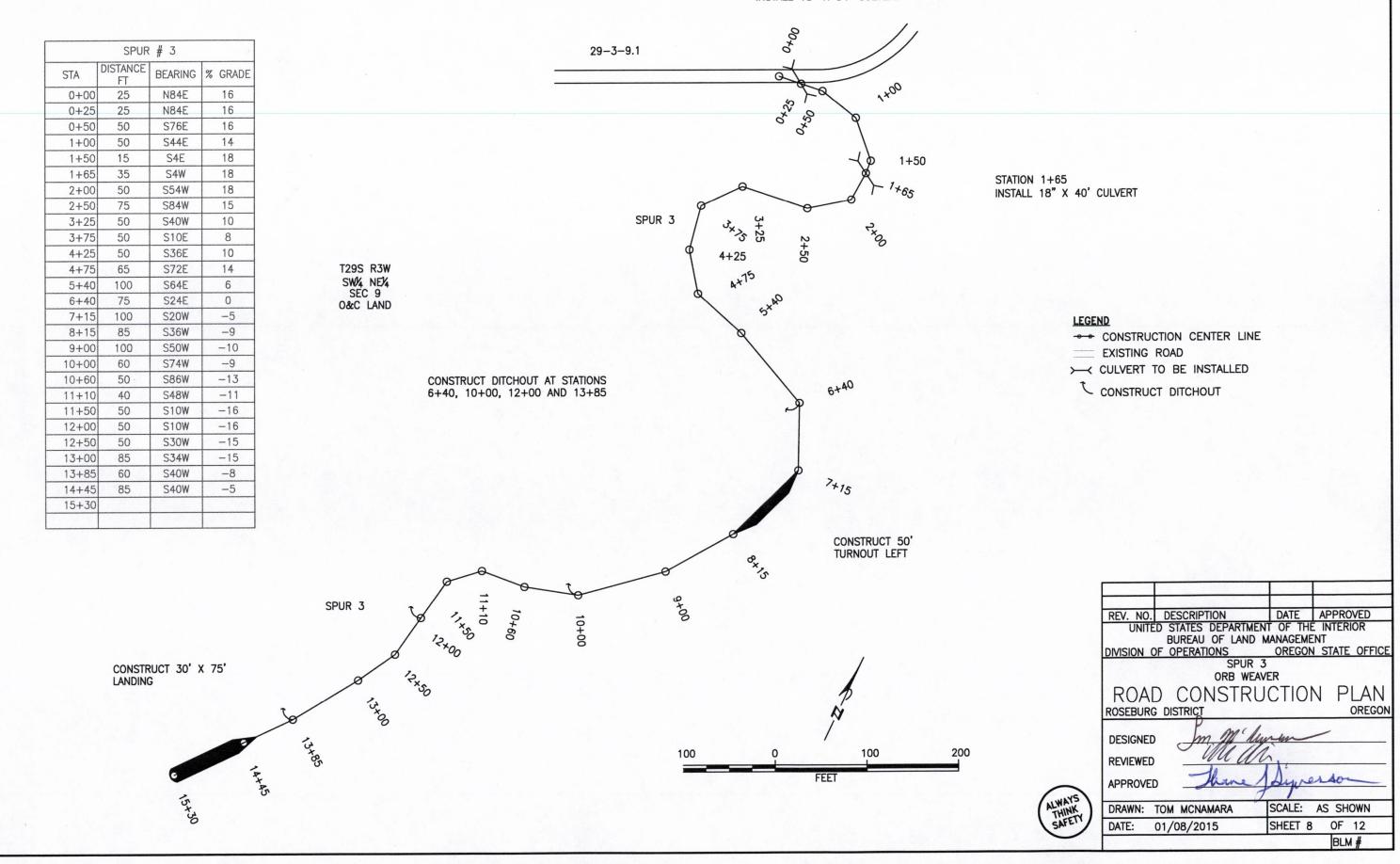
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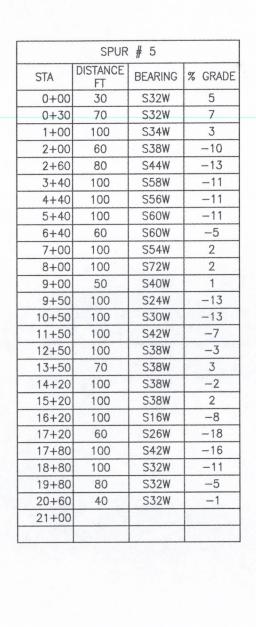
DATE: 01/08/2015 SHEET 6 OF 12

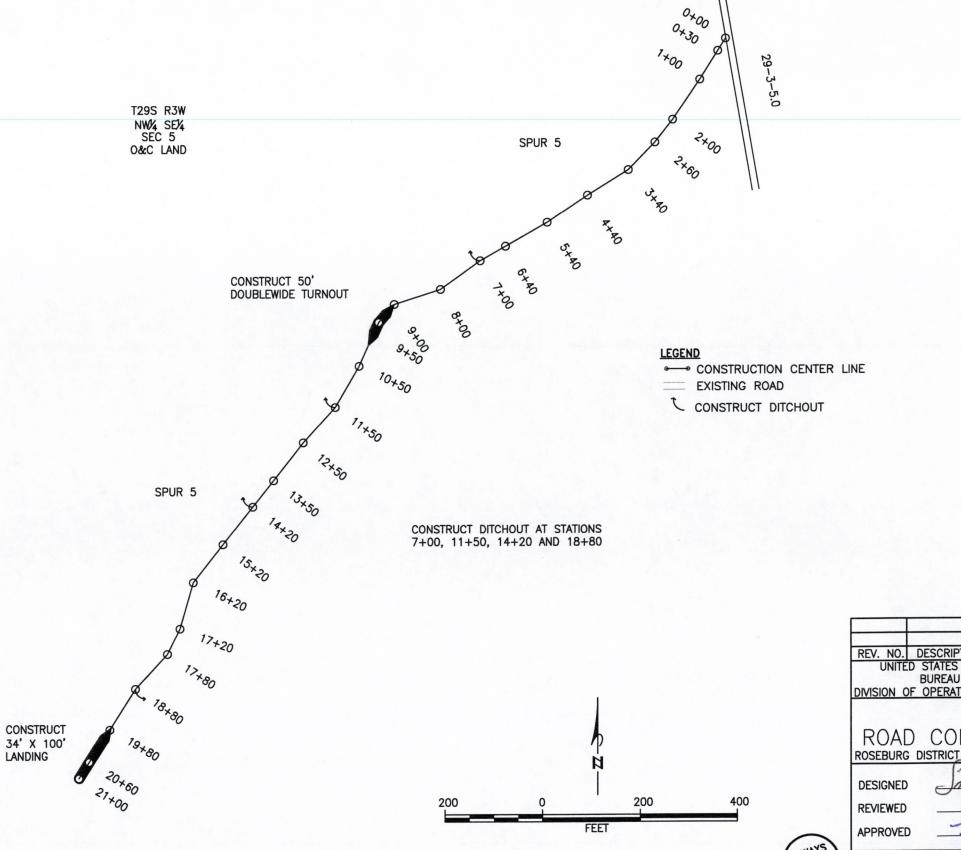
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STATION 0+25 INSTALL 18" X 34' CULVERT







DATE APPROVED REV. NO. DESCRIPTION UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT OREGON STATE OFFICE DIVISION OF OPERATIONS SPUR 5

ORB WEAVER

ROAD CONSTRUCTION PLAN OREGON

DESIGNED

APPROVED

DRAWN: TOM MCNAMARA 01/08/2015

OF 12 BLM #

SCALE: AS SHOWN

SHEET 9

CULVERT LIST

CULVERT LOCATIONS											(NOTE	4)	
DESIG	NED (NOTE	E 2)			AS BUILT					DOWNSPO	OUT (NOIE	*)	
SIZE (IN)	GAGE	LENGTH (FT)	SKEW ANGLE	INSTALL TYPE (NOTE 3)	ROAD NO. STATION OR M.P.	SIZE (IN)	GAGE	LENGTH (FT)	TYPE	SIZE (IN)	LENGTH (FT)	ELBOW TYPE (NOTE 5)	REMARKS (NOTE 6)
18		36	EXISTING	1	2								TEMPORARY CULVERT
18		32	EXISTING	1									PERMANENT
18		34	30°	1									TEMPORARY CULVERT
18		40	30°	1									TEMPORARY CULVERT
									E				
	18 18	18 18 18	18 36 18 32 18 34	DESIGNED (NOTE 2) 3	DESIGNED (NOTE 2) A	DESIGNED (NOTE 2)	DESIGNED (NOTE 2) AS BUILT AS BUILT ROAD NO. STATION OR M.P. 18 36 EXISTING 1 18 32 EXISTING 1 18 34 30 1	DESIGNED (NOTE 2) AS BUILT ROAD NO. STATION OR M.P. 18 36 EXISTING 1 18 32 EXISTING 1 18 34 30 1	DESIGNED (NOTE 2) AS BUILT ROAD NO. STATION OR M.P. 18 36 EXISTING 1 18 32 EXISTING 1 18 34 30 1	DESIGNED (NOTE 2)	DESIGNED (NOTE 2) AS BUILT ROAD NO. STATION OR M.P. 18 36 EXISTING 1 18 32 EXISTING 1 18 34 30 1	DESIGNED (NOTE 2) AS BUILT AS BUIL	DESIGNED (NOTE 2) AS BUILT AS BUIL

NOTES:

- DESIGNED CULVERT LENGTHS AND LOCATIONS ARE APPROXIMATE.
- 2. ALL CULVERTS HAVE 2 2/3" X 1/2" CORRUGATIONS UNLESS OTHERWISE SPECIFIED.
- SEE CULVERT INSTALLATION SHEET.
- 4. DOWN SPOUT TYPES:
- a. FULL
- b. HALF
- c. FLUME

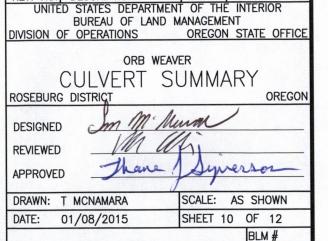
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- . ELBOW TYPES:
- a. CONVENTIONAL OR FABRICATED
- b. TURNER TYPE
 - SLIP JOINT
- 6. INCLUDE SPECIAL SECTIONS, STRUCTURES, HEADWALLS, FOOTINGS, AND OTHER DATA.

GAGE CHA	RT					
DEC. EQUIV INCH						
STEEL	ALUM.					
0.1380	0.1350					
0.1090	0.1050					
0.0790	0.0750					
0.0640	0.0600					
	DEC. EQU STEEL 0.1380 0.1090 0.0790					

* ALUMINIZED OR POLYETHYLENE

	R	OUND PI	PE CULVERT	
MATERIAL	SIZE (IN)	GAGE	CORRUGATIONS	LENGTH (FT)
*	18	14	SEE NOTE 2	142



DATE APPROVED

