

PROSPECTUS

SBA SET-ASIDE SALE Sale Date: December 12, 2017

(1) Roseburg Sale No.: 2018.0003
Douglas County, Oregon: O&C: Oral Auction
All timber designated for cutting on:

Sale Name: Second Half
Bid Deposit Required: \$42,600.00

Lots 1, 2, 3 & 4; SW $\frac{1}{4}$ NW $\frac{1}{4}$; W $\frac{1}{2}$ SE $\frac{1}{4}$
SW $\frac{1}{4}$ SW $\frac{1}{4}$; NE $\frac{1}{4}$ SE $\frac{1}{4}$
NW $\frac{1}{4}$; W $\frac{1}{2}$ SE $\frac{1}{4}$; SE $\frac{1}{4}$ SE $\frac{1}{4}$

Section 33, T. 20 S., R. 7 W., Willamette Meridian
Section 16, T. 21 S., R. 7 W., Willamette Meridian
Section 17, T. 21 S., R. 7 W., Willamette Meridian

Approx. Number Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Est. Volume Times Appraised Price
10,127	1,643	Douglas-fir	2,054	\$197.90	\$406,486.60
1,129	143	Western Hemlock	176	\$92.60	\$16,297.60
60	5	Western Redcedar	6	\$503.40	\$3,020.40
11,316	1,791		2,236		\$425,804.60

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:

The Douglas-fir has been cruised using the 3P system to select sample trees. The sample trees have been cruised and their volume computed on form class tables for estimating volume in 16-foot lengths. This volume is then expanded to a total sale volume. A map showing the location of the sample trees is available at the Roseburg District Office.

The volume of all other species have been determined by individual tree measurements using a 100% cruise.

With respect to merchantable trees of all species: the average tree is 12.7 inches D.B.H.O.B., the average log contains 42 bd. ft., the total gross volume is approximately 2348 MBF and 95% recovery is expected.

CUTTING AREA: An area of approximately 79 acres in 7 units will be thinned and rights-of-ways totaling approximately 3 acres will be clearcut.

TIMBER ACREAGE:

Area 1: 8 acres	Area 6: 10 acres
Area 2: 12 acres	Area 7: 19 acres
Area 3: 16 acres	R/W: 3 acres
Area 4: 6 acres	
Area 5: 8 acres	

ACCESS: Access to the sale area is provided by Government, County, and privately controlled roads.

DIRECTIONS TO SALE AREA: From Roseburg, proceed north on Interstate-5 to Exit 150. Exit Interstate-5 and proceed north on State Highway 99 to Drain. Then, from Drain:

1. To reach Harvest Areas 1, 2 and 3, proceed northeast on State Highway 99 approximately 2 miles to the junction with County Road 37 (Smith River Road). Proceed northwest on Smith River Road approximately 22 miles to its end and the beginning of BLM Road 20-7-27.0 and follow the Exhibit D map southwest approximately 4 miles to the sale area.
2. To reach Harvest Areas 4, 5, 6 and 7, proceed west on State Highway 38 approximately 10 miles to the junction with Road 22-7-14.0 (Big Tom Folley Road). Turn right onto Big Tom Folley Road and follow the Exhibit D map north approximately 9 miles to the sale area.

ROAD MAINTENANCE: Rockwear and maintenance fees of \$18,528.72 will be required to be paid to the BLM, and rockwear and maintenance fees of \$5,917.30 will be required to be paid to Seneca Jones Timber Company, LLC.

ROAD CONSTRUCTION: Estimates include the following: construct 18+30 stations, renovate 41+30 stations, and decommission 18+30 stations of road. Approximately 31 MBF is to be cut and removed in association with road renovation; this timber volume will be included on Exhibit B of the contract, but no acres have been attributed to the road renovation. Additional information is available in Exhibit C and Exhibit D of the Timber Sale Contract.

DURATION OF CONTRACT will be 36 months for cutting and removal of timber. The contract will contain SPECIAL PROVISIONS regarding: logging; road construction, renovation, maintenance, and use; environmental protection; fire prevention; slash disposal; log exports; SBA set-aside regulations; and safety. Log scaling may be required under the terms of this contract.

ADDITIONAL INFORMATION: This prospectus includes maps and tables that cannot be made Section 508 compliant. For help with its data or information, please contact the Roseburg District Office at 541-440-4930.

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 to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), 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 or management direction established in the ROD and RMP.
2. Seasonal restrictions on operations apply to this sale regarding logging operations, use of native surfaced roads, and road work. Refer to Sections 42(A)(5)(b), 42(A)(6)(b), 42(A)(10), 42(A)(11), 42(A)(12), 42(B)(2), and 42(C)(3)(c) for details. A "seasonal restriction matrix" is included with this prospectus to serve as a guide in planning and scheduling operations for each harvest unit.
3. A license agreement with Seneca Jones Timber Company, LLC. is required. The terms and conditions of the license agreement are available for inspection at the Roseburg District Office.
4. 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 112 MBF of such additional timber would be removed under the contract, but is not included in the advertised sale volume.
5. Slash disposal requirements consist of the following: machine piling, covering and burning slash and debris within a fifty (50) foot radius of landings (approximately 49 landings). The Purchaser will have the option to assist in burning or to make a contribution to the Bureau of Land Management in lieu thereof. Refer to Sections 42(F) and 42(G) for details.
6. Simultaneous use of the Contract Area adjacent to Harvest Area 3 has been authorized pursuant to the Halfway There timber sale contract. Operations are on-going but should not seriously interfere with the operations of the Purchaser.
7. As appraised, approximately 68% of the sale area is available for wet season operations, including portions of Harvest Areas 1, 3, 4, 5, 6 and 7 (56 acres). Wet season operations may be maximized at the Purchaser's expense by:
 - Cable yarding Harvest Area 2 and portions of Harvest Areas 1, 3 and 6 to the existing rocked roads approved for wet season operations, instead of ground-based yarding (approximately 21 additional acres);
 - Adding rock to Road 21-7-16.0 as necessary for wet season haul to cable yard a portion of Harvest Area 5, instead of ground-based yarding (approximately 2 additional acres).

In order to maximize wet season operations, the Authorized Officer must approve the logging plan, and a contract modification may be required.

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.

Section 41. TIMBER RESERVED FROM CUTTING -The following timber in 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.
- (b) All retention trees marked with yellow paint above and below stump height within the cutting areas and all yellow painted and posted trees which are on or mark the boundaries of the Reserve Areas.
- (c) All existing downed trees at the time of the timber cruise in the Harvest Areas shown on Exhibit A. Reserved existing downed trees may be bucked to facilitate yarding.
- (d) All snags in the Harvest Areas as shown on Exhibit A. Snags which pose a hazard to operations may be felled with the approval of the Authorized Officer.

Section 42. The Purchaser shall comply with the special provisions which are attached hereto and made apart 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 day 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) In the Harvest Areas shown on Exhibit A, all trees designated for cutting which are within one hundred (100) feet of the Reserve Areas shall be felled and yarded away from these areas.
- (4) No cable yarding, ground-based yarding or log loading is permitted in or through the Reserve Areas as shown on Exhibit A, unless otherwise approved by the Authorized Officer.
- (5) In the Harvest Areas shown on Exhibit A, all trees designated for cutting shall be manually felled, limbed and cut into log lengths not to exceed forty-two (42) feet before being yarded, unless otherwise approved by the Authorized Officer. Portions of Harvest Areas may be felled mechanically using a feller-processor with the approval of the Authorized Officer and in accordance with the following specifications:
 - (a) Mechanized felling operations shall generally be limited to slopes of thirty-five (35) percent or less.
 - (b) Mechanized felling operations are subject to seasonal operating restrictions as described in Section 42(A)(6)(b) of this contract.
 - (c) The feller-processor shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose-built carriers with boom-mounted felling heads may be approved. The purpose-built carrier may be of the articulated, rubber-tired design or the zero tail swing, leveling, track-mounted design.
 - (d) In Harvest Areas where mechanical felling is permitted with the approval of the Authorized Officer, all trees designated for cutting shall be completely limbed and bucked into log lengths not to exceed forty-two (42) feet prior to being yarded.
- (6) In the portions of Harvest Areas 1, 2, 3, 5 and 6 designated for ground-based yarding as shown on Exhibit A (approximately 23 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 1 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, twelve (12) 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 cut-to-length system may be used in accordance with the following specifications:
 - (1) The harvester shall be required to cut off limbs and tops in front of the machine's tracks in order to reduce the potential for soil compaction. The 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 harvester. Forwarder trails shall be perpendicular to hill-slope contour lines as much as possible. Forwarder trails shall be located such that there are two harvester trails between forwarder trails, resulting in a spacing of at least one hundred (100) feet between forwarder trails.

- (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.

- (7) In the portions of Harvest Areas 1, 3, 4, 5, 6 and 7 designated for cable yarding as shown on Exhibit A (approximately 56 acres):
 - (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 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 streams as shown on Exhibit A.
 - (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.
- (8) 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 the skid trails, cable yarding corridors, and tailhold, tieback, guyline, lift, intermediate support, and danger trees on the ground in a manner approved by the Authorized Officer at the pre-work conference and documented in the logging plan. Said Purchaser identification of trees to be cut and removed does not constitute authority to proceed with cutting and removal. In addition, before proceeding with cutting the following conditions must be met:
 - (a) All skid trails and/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 skid trails shall be limited to twelve (12) feet and cable yarding corridors shall be limited to fifteen (15) 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 to clear danger trees when the trees have been marked with 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 yellow 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.

- (9) 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 cable yarding corridors, hazardous to workers, needed for guyline, tail hold or tieback trees, and/or severely damaged from the normal conduct of felling or yarding operations to meet all applicable safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling and yarding operations. The Purchaser is, therefore, authorized to cut and remove such additional timber in accordance with the provisions of Section 8 of the contract: provided, however, that:
- (a) Trees reserved for the tree improvement program and trees reserved for the wildlife habitat objectives under Section 41 of the contract are not included in the authorization.
 - (b) The Purchaser shall identify each tree sold and cut in accordance with the provision by marking the cut surface of the stump and the bottom log immediately after falling with high visibility red 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 if 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 reserve tree in or adjacent to skid trails that was not necessary to facilitate ground based yarding.
 - (6) Failed to properly segregate any pulled-over tree that was yarded to the landing.

- (7) Cut any reserve tree that was not severely damaged (as defined during the pre-work conference) 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 tail hold trees.
- (10) Cut more than the minimum number of trees necessary to properly serve as tie-backs for topped tail hold trees.
- (11) Failed to maintain accurate and current (no more than twenty-four [24] hours old) documentation of additional timber cut and removed.

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, corridor tree, pulled over tree, and severely damaged tree. All sales of additional timber shall comply with Section 8 of the contract. The Contracting Officer may order the Purchaser, in writing, to suspend, delay, or interrupt all or any part of the work of this contract for the period of time that the Contracting Officer determines appropriate for the Government to safely measure and mark additional timber.

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.

- (10) Except for right-of-way logging, no falling or yarding shall be conducted between April 15 and July 15 (bark slip period), both days inclusive, unless otherwise approved by the Authorized Officer.
- (11) No logging activity or log hauling shall be conducted on unsurfaced roads between October 15 of one calendar year and May 15 of the following calendar year (wet season), both days inclusive, unless otherwise approved by the Authorized Officer.
- (12) To prevent potential disturbance to nesting Marbled Murrelets, the following restrictions apply: for those portions of the Contract Area that are within the Marbled Murrelet Seasonal and Daily Operating Restriction Area, as designated on Exhibit E, which is attached hereto and made a part hereof, no operations except hauling shall be conducted between April 1 and August 5, both days inclusive, after which daily operating restrictions shall be in effect from August 6 through September 15, both days inclusive. During the daily operating restriction period, all operations shall be scheduled to begin a minimum of two (2) hours after sunrise and conclude a minimum of two (2) hours before sunset.

- (13) 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. If a log or piece of log meeting or exceeding the above specifications is bucked and left in place, all portions of that log shall be yarded and decked at the above described location.

Section 42(B) Road Construction, Maintenance & Use:

- (1) Purchaser shall construct: Road 20-7-33.7 Segment A and Spurs 1 and 2. Purchaser shall renovate: Road 20-7-32.2 Segment A (portion); Road 20-7-33.2 Segment A (portion); Road 20-7-33.3 Segment A (portion); Road 20-7-33.6 Segment A (portion); and Road 21-7-16.0 Segment A (portion). Any required construction or renovation shall be completed in strict accordance with the plans and specifications shown on Exhibit C, which is attached hereto and made a part hereof. Any required construction, renovation, or improvement of structures and roads shall be completed prior to the removal of any timber, except right-of-way timber, over that road.
- (2) No road construction or renovation shall be conducted between October 15 of one calendar year and May 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.
- (3) Upon completion of logging operations, the following roads and spurs shall be decommissioned in strict accordance with the plans and specifications shown on Exhibit D, which is attached hereto and made a part hereof: Road 20-7-33.7 Segment A and Spurs 1 and 2.
- (4) 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(B)(5). 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 construction 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.
- (5) The Purchaser shall pay the Government a rockwear and maintenance obligation in the amount of Eighteen Thousand Five Hundred Twenty-eight and 72/100 dollars (\$18,528.72) for the transportation of timber included in the contract price over roads listed on the Exhibit D. The above rockwear and maintenance amount is for use of eighteen and eight-tenths (18.8) miles of road or less. Unless the total rockwear and 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.

- (6) 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.
- (7) 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.
- (8) In the use, construction or renovation of Road 20-7-33.7 Segment A (portion on Seneca), Road 22-7-2.0 Segment A, Road 22-7-14.0 Segments A, C, D, E, G and H, and the yarding wedge located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 32, T. 20 S., R. 7 W., W.M., the Purchaser shall comply with the conditions, including but not limited to those set out below, of the Right-of-Way and Road Use Agreement No. R-645A, dated June 1, 1966, between the United States of America and Seneca Jones Timber Company, LLC., available for inspection at the Bureau of Land Management, Roseburg District Office, 777 N.W. Garden Valley Blvd., Roseburg, Oregon 97471. These conditions include:
 - (a) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a copy of the executed license agreement.
 - (b) Payment of a rockwear and maintenance obligation in the amount of Five Thousand Nine Hundred Seventeen and 30/100 dollars (\$5,917.30).
 - (c) Payment for right-of-way timber from the construction of Road 20-7-33.7 Segment A (portion on Seneca) and the yarding wedge located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 32, T. 20 S., R. 7 W., W.M., approximately 3.3 MBF, prior to cutting as follows:

Number of Trees	Species	Estimated Volume (MBF)	Appraised Price per MBF*	Value
69	Douglas-fir	3.0	\$TBD*	\$TBD*
10	Western Hemlock	0.3	\$TBD*	\$TBD*
79	Totals	3.3	[REDACTED]	\$TBD*

* Appraised price per MBF to be determined by Seneca Jones Timber Company upon execution of the license agreement.

- (d) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate stumpage fees, road use fees or road maintenance fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result of the violation of this provision.

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, prior to initial move-in, to minimize the likelihood of spreading noxious weeds and non-native plant species 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 used under Section 42(B)(1) or any portion thereof, in accordance with the plans and specifications shown on Exhibit D, 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 roads or portions thereof overwinter before decommissioning.
 - (b) Winterizing shall consist of water-barring, blocking and mulching to the satisfaction of the Authorized Officer.
 - (c) Winterizing shall take place prior to the end of the operating season as described in Section 42(A)(11) of this contract, or as directed by the Authorized Officer.

- (4) The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Contracting Officer that:
 - (a) Threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
 - (b) When, in order to comply with the Endangered Species Act, or to prevent incidental take of northern spotted owls in accordance with management direction in the Record of Decision (ROD) and Resource Management Plan (RMP), 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;
- (g) Species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines, or management direction, established in the ROD and RMP, and the Contracting Officer determines that continued operations would affect the species or its habitat, or;
- (h) When, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines, or management direction, 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 modify the contract or terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction 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, if able to proceed without causing incidental take of northern spotted owls in accordance with the ROD and RMP, consistent with 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 the contract is modified or cutting and removal rights are terminated under this subsection, the Purchaser agrees that the liability of the United States shall be limited to the actual costs incurred by the Purchaser which have not been amortized by timber removed from the Contract Area. This calculation of liability shall utilize actual Purchaser costs and Government estimates of timber volumes. At the Authorized Officer's request, the Purchaser agrees to provide documentation of the actual costs incurred in the performance of the contract. In addition, the Purchaser shall be released from the obligation to pay the contract price for any timber which is not authorized to be removed from the Contract Area.

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

Section 42(D) 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 One Thousand Six Hundred Seventy-seven and no/100 dollars (\$1,677.00); in the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of One Thousand Six Hundred Seventy-seven and no/100 dollars (\$1,677.00) 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 the Eastside (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 Purchaser upon request.

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) Fire Hazard Reduction. 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) 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 the Purchaser's operations under the terms of this contract.
 - (b) Landings shall be piled and covered within thirty (30) days of the completion of yarding from each landing.
 - (c) Covering of slash piles shall be done concurrently with piling operations. The covers shall be firmly fixed to each pile.
 - (d) Finished piles shall be tight and free of earth.

- (e) Machine pile and cover all slash within fifty (50) feet of all landings or other locations as directed by the Authorized Officer in accordance with the following specifications:
- (1) Landing slash piles shall be capped with a ten (10) foot by ten (10) foot cover of four (4) mil black plastic to maintain a dry ignition point.
 - (2) Slash piles shall be located away from unit boundaries, retention trees, snags, downed logs and stumps.

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

For igniting and burning landing piles in all Harvest Areas, the Purchaser shall provide one (1) eight (8) person hand crew including a designated crew foreman. The crew shall be equipped with fuel, ten (10) drip torches or propane burners, four (4) fire shovels, four (4) pulaskis, one (1) power saw and enough radios to facilitate inter-crew communications. All crew members must have a current qualification card for FFT2 or higher. All qualifications are defined according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, PMS 310-1. Qualifications and equipment levels are the minimum and may exceed those stated above.

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

All listed personnel shall be physically fit, experienced and fully capable of functioning as required. All personnel shall arrive at the project area with the following personal safety equipment: lug-soled leather boots with minimum eight (8) inch uppers that provide ankle support; an approved hardhat; leather gloves; long pants and a long sleeve shirt made of approved aramid fabric (Nomex or equivalent); and an approved fire shelter.

All listed tools and equipment shall be in good usable condition. All power-driven equipment shall be fully fueled and available for immediate use. During periods of use under this subsection, the Purchaser shall provide fuel and maintenance for all such power-driven equipment. In addition, all listed personnel directly involved in burning operations shall be certified Fire Fighters qualified according to National Wildfire Coordinating Group (NWCG) Wildland Fire Qualification System guide, PMS 310-1 and provide documentation. The work leaders must be fluent in English and be able to effectively speak to all crew members under their direction. Personnel who do not meet these requirements or who do not have proper clothing and personal protective equipment (PPE) will not be allowed to participate.

Except as provided hereafter for fire escapement, the Purchaser shall continue the required assistance in mop-up on each Harvest Area as shown on Exhibit A for seventy-two (72) hours as directed by the Authorized Officer within a thirty (30) day period beginning 8:00 a.m. the day following completion of ignition in that unit or until released from such services by the Authorized Officer, whichever occurs first.

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

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

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

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

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

Section 42(G) Optional Contributions:

- (1) The Purchaser shall assist in burning as described in Section 42(F)(2). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a contribution to the Bureau of Land Management in the amount of One Thousand Four Hundred Ninety-Two and

05/100 dollars (\$1,492.05) and upon making such contribution, the Purchaser shall be relieved of the obligations set out in these subsections. The amount of the contribution shown above shall be paid prior to cutting. The Purchaser shall notify the Authorized Officer of his intention to make this contribution upon execution of this contract.

Section 42(H) Log Exports:

- (1) All timber sold to the Purchaser under the terms of this contract, except exempted species, is restricted from export from the United States in the form of unprocessed timber, and is prohibited from being used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three-quarters ($8\frac{3}{4}$) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end-product uses; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimension or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 Common or better. Thus, timber manufactured into the following will be considered processed: (1) lumber and construction timber, regardless of size, manufactured to standards and specifications suitable for end-product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares and lumber cut for remanufacturing of eight and three-quarters ($8\frac{3}{4}$) inches in thickness or less; (6) shakes and shingles.

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

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

- (a) Date of last export sale.
- (b) Volume of timber contained in the 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. 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.

Section 42(l) Small Business Administration (SBA) Set Aside:

- (1) The Purchaser agrees not to sell and/or exchange more than 30 percent of the timber or log volume from this preferential sale to concerns that do not meet the Small Business Administration small business size standard (13 CFR 121).

The Purchaser understands that in addition to other penalties which may be imposed for violating the foregoing, the Purchaser may be declared ineligible to participate in future

Federal timber sales that are set-aside for preferential bidding by small business qualified concerns for two semi-annual triggered periods succeeding the violation.

The Purchaser shall provide a current, interim Log Scale and Disposition of Timber Removed Report (Form 5460-15) upon request by the Authorized Officer at any time during the contract period for cutting and removal specified in Section 4 of this contract as amended.

Section 42(J) Safety:

- (1) Purchaser's operations shall facilitate BLM's safe and practical inspection of Purchaser's operations and BLM's conduct of other official duties on Contract Area. Purchaser has all responsibility for compliance with safety requirements for Purchaser's employees, contractors and subcontractors.

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

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

Note: This matrix is provided to serve prospective purchasers as a guide only; refer to the timber sale contract Special Provisions for a complete statement of the seasonal operating restrictions.

Seasonal restrictions are cross-hatched.
Daily operating restrictions are striped.

Harvest Area	Activity	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug			Sep		Oct		Nov		Dec	
		1	15	1	15	1	15	1	15	1	16	1	15	1	16	1	5	6	1	16	1	15	1	15	1	15
Unit 1 (thinning)	Right-of-way logging and clearing, road construction, renovation ¹	[Cross-hatched]																								
	Falling and bucking ²	[Cross-hatched]																								
	Ground-based yarding ^{2,3}	[Cross-hatched]																								
	Cable yarding on rocked roads ²	[Cross-hatched]																								
	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴	[Cross-hatched]																								
Unit 2 (thinning)	Right-of-way logging and clearing, road construction, renovation ¹	[Cross-hatched]																								
	Falling and bucking ²	[Cross-hatched]																								
	Ground-based yarding ^{2,3}	[Cross-hatched]																								
	Loading or hauling on dirt roads ¹	[Cross-hatched]																								
	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴	[Cross-hatched]																								
Unit 3 (thinning)	Right-of-way logging and clearing, road construction, renovation ¹	[Cross-hatched]																								
	Falling and bucking ²	[Cross-hatched]																								
	Ground-based yarding ^{2,3}	[Cross-hatched]																								
	Cable yarding on rocked roads ²	[Cross-hatched]																								
	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴	[Cross-hatched]																								

¹ Wet season restriction applying to use of unsurfaced (or limited strength) roads and all road construction/renovation from October 15 – May 15 may be shortened or extended depending on weather conditions.

² Bark slip restriction from April 15 – July 15 may be conditionally waived.

³ Wet season restriction applying to ground-based yarding from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions.

⁴ Starting in Calendar Year 2019, for Units 1 – 3, MAMU seasonal operating restrictions will be in effect from April 1 through August 5; MAMU daily operating restrictions will be in effect from August 6 through September 15, during which operations shall begin two hours after sunrise and must conclude two hours before sunset.

Note: This matrix is provided to serve prospective purchasers as a guide only; refer to the timber sale contract Special Provisions for a complete statement of the seasonal operating restrictions.

Seasonal restrictions are cross-hatched. 

Harvest Area	Activity	Jan		Feb		Mar		Apr		May		Jun		Jul			Aug			Sep		Oct		Nov		Dec		
		1	15	1	15	1	15	1	15	1	16	1	15	1	16	1	5	6	1	16	1	15	1	15	1	15	1	15
Unit 4 (thinning)	Falling and bucking ²																											
	Cable yarding on rocked roads ²																											
	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴																											
Unit 5 (thinning)	Right-of-way logging and clearing, road construction, renovation ¹																											
	Falling and bucking ²																											
	Cable yarding on rocked roads ²																											
	Ground-based yarding ^{2,3}																											
Unit 6 (thinning)	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴																											
	Falling and bucking ²																											
	Cable yarding on rocked roads ²																											
	Ground-based yarding ^{2,3}																											
Unit 7 (thinning)	All operations except hauling within 100 yards of Marbled Murrelet suitable habitat as shown on Exhibit E ⁴																											
	Falling and bucking ²																											
	Cable yarding on rocked roads ²																											

¹ Wet season restriction applying to use of unsurfaced (or limited strength) roads and all road construction/renovation from October 15 – May 15 may be shortened or extended depending on weather conditions.

² Bark slip restriction from April 15 – July 15 may be conditionally waived.

³ Wet season restriction applying to ground-based yarding from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions.

⁴ In all Calendar Years for which the contract is active, for Units 4 – 7, MAMU seasonal operating restrictions will be in effect from April 1 through August 5; MAMU daily operating restrictions will be in effect from August 6 through September 15, during which operations shall begin two hours after sunrise and must conclude two hours before sunset.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

LUMP SUM SALE

Tract Number
(1) 2018.0003

Sale Name
Second Half

Sale Notice (dated)
Nov. 14, 2017 (sale date 12/12/2017)

BLM District
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 \$ **42,600.00** and is enclosed in for form of cash money order bank draft
 cashier's check certified check bid bond of corporate surety on approved list of the United States Treasury
 guaranteed remittance approved by the authorized officer.

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

BID SCHEDULE - LUMP SUM SALE

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

PRODUCT SPECIES	UNIT	BID SUBMITTED			ORAL BID MADE	
		ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,054	x _____ = _____	x _____ = _____		
Western Hemlock	MBF	176	x _____ = _____	x _____ = _____		
Western Redcedar	MBF	6	x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
Totals	MBF	2,236	x _____ = _____	x _____ = _____		
TOTAL PURCHASE PRICE						

(Continued on reverse)

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

Bid submitted on *(date)*

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

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

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to inform you that:

This information is being collected to obtain data relevant to the operation of this timber sale contract.

This information will be used to administer our timber sale program.

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.

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

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

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

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

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

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

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

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

*Applies to Timber Only

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

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

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

10. PERFORMANCE BOND —

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

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

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

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

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

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

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.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

LUMP SUM SALE

Tract Number
(1) 2018.0003
Sale Name
Second Half
Sale Notice (dated)
Nov. 14, 2017 (sale date 12/12/2017)
BLM District
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 \$ **42,600.00** and is enclosed in for form of cash money order bank draft
 cashier's check certified check bid bond of corporate surety on approved list of the United States Treasury
 guaranteed remittance approved by the authorized officer.

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

BID SCHEDULE - LUMP SUM SALE

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

PRODUCT SPECIES	UNIT	BID SUBMITTED			ORAL BID MADE	
		ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,054	x _____ = _____	x _____ = _____		
Western Hemlock	MBF	176	x _____ = _____	x _____ = _____		
Western Redcedar	MBF	6	x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
	MBF		x _____ = _____	x _____ = _____		
Totals	MBF	2,236	x _____ = _____	x _____ = _____		
TOTAL PURCHASE PRICE						

(Continued on reverse)

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

Bid submitted on *(date)*

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

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

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501 et. seq.) requires us to inform you that:

This information is being collected to obtain data relevant to the operation of this timber sale contract.

This information will be used to administer our timber sale program.

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.

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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.

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*Applies to Timber Only

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(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.*

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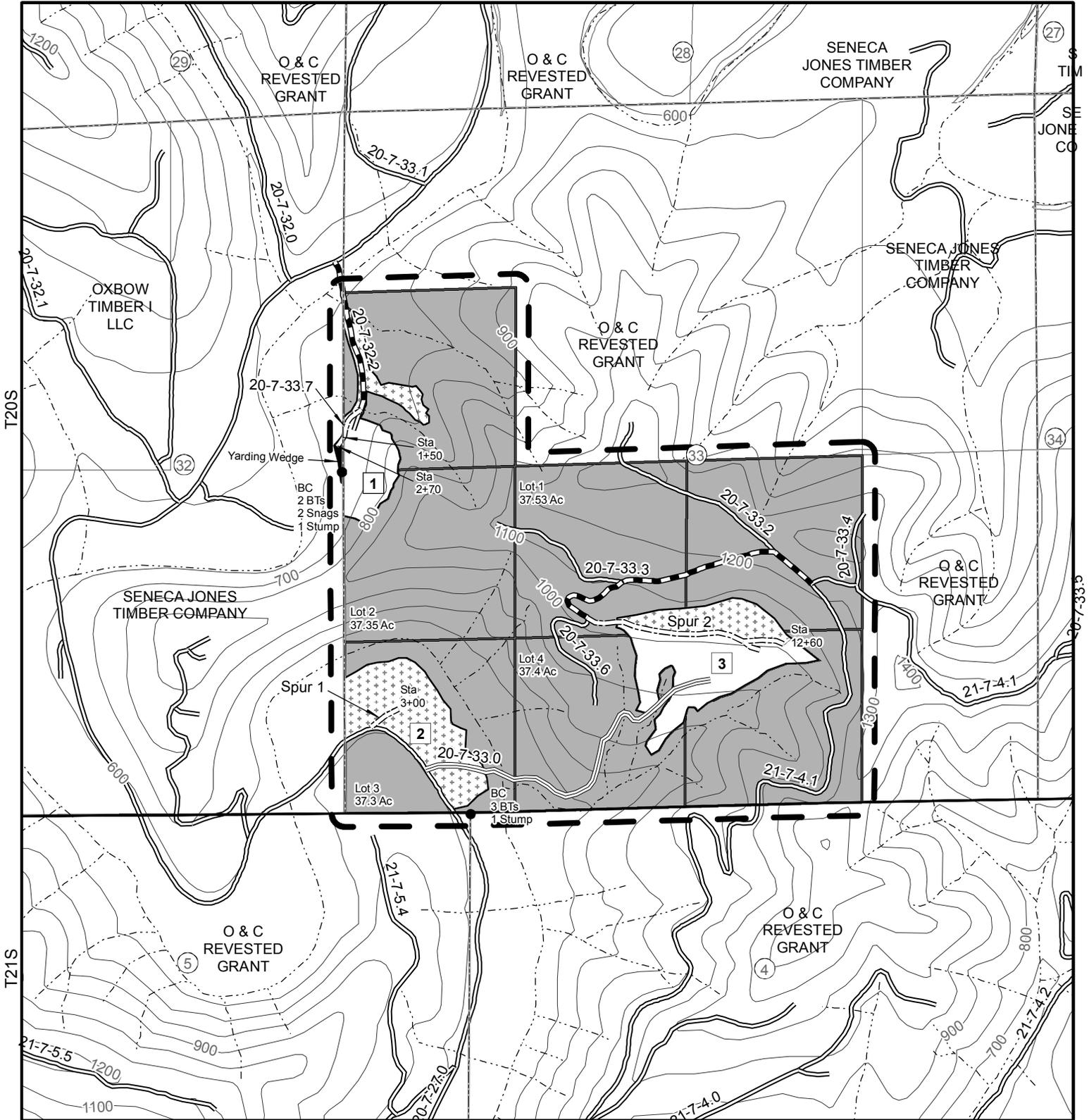
Township 20 South, Range 7 West, Section 33, Willamette Meridian
Township 21 South, Range 7 West, Sections 16 &17, Willamette Meridian

<i>HARVEST AREA</i>	<i>HARVEST ACRES</i>	<i>HARVEST METHOD</i>
1	8	CABLE/GROUND
2	12	GROUND
3	16	CABLE/GROUND
4	6	CABLE
5	8	CABLE/GROUND
6	10	CABLE/GROUND
7	19	CABLE
Total	79	

THINNING HARVEST AREA-----	79	Acres
RIGHT-OF-WAY (CLEARING)-----	3	Acres
TOTAL HARVEST AREA-----	82	Acres
RESERVE AREA-----	547.6	Acres
TOTAL CONTRACT AREA-----	629.6	Acres

1. Boundaries are posted with tags that read "Boundary of Timber Reserve" and trees are painted yellow.
2. Property lines are posted with orange and white tags that read "Timber Cutting Boundary".
3. Clearing limits on road rights-of-ways outside the Harvest Area are posted with tags that read "Right-of-Way;" clearing limits on road rights-of-ways inside the Harvest Area are posted with fluorescent paper flashers.
4. Trees marked with yellow paint in all Harvest Areas and on all harvest area boundaries are reserved by the government.

Note: Acres shown on Exhibit A have been computed using a Trimble Geo XT Global Positioning System receiver and ESRI ArcMap 10.4 GIS software. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.



Legend

- Survey Corner
- Stream
- Road Construction
- Road Renovation
- Existing Road
- Undrivable Road
- *** Ground Harvest
- Cable Harvest
- ▨ Yarding Wedge
- ▨ Reserve Area
- ▭ Contract Area

1:12,000

1 inch = 1,000 feet

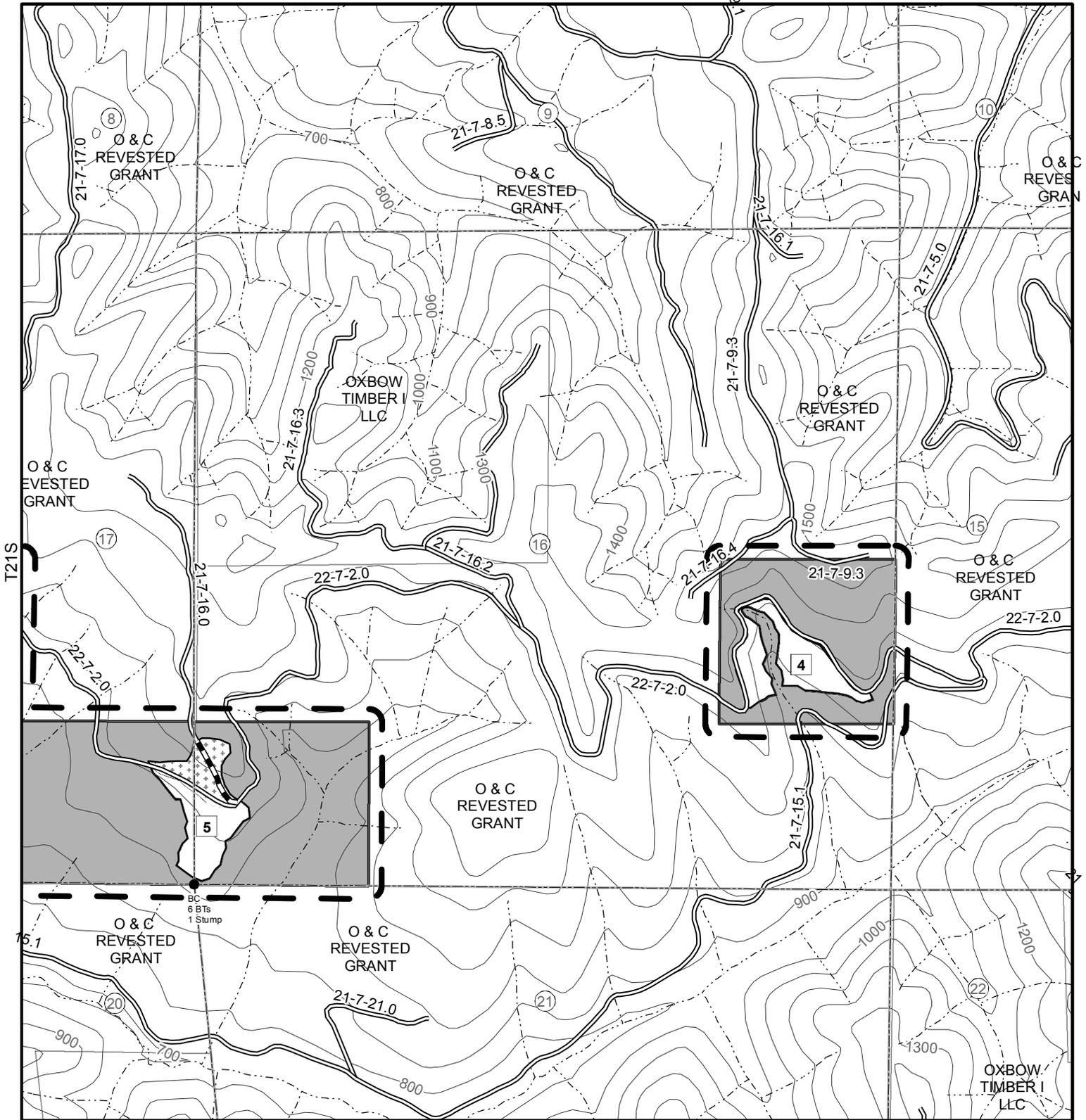


Date: 10/11/2017

Roseburg District
Bureau of Land Management
777 NW Garden Valley Blvd.
Roseburg, Oregon 97471



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.



Legend

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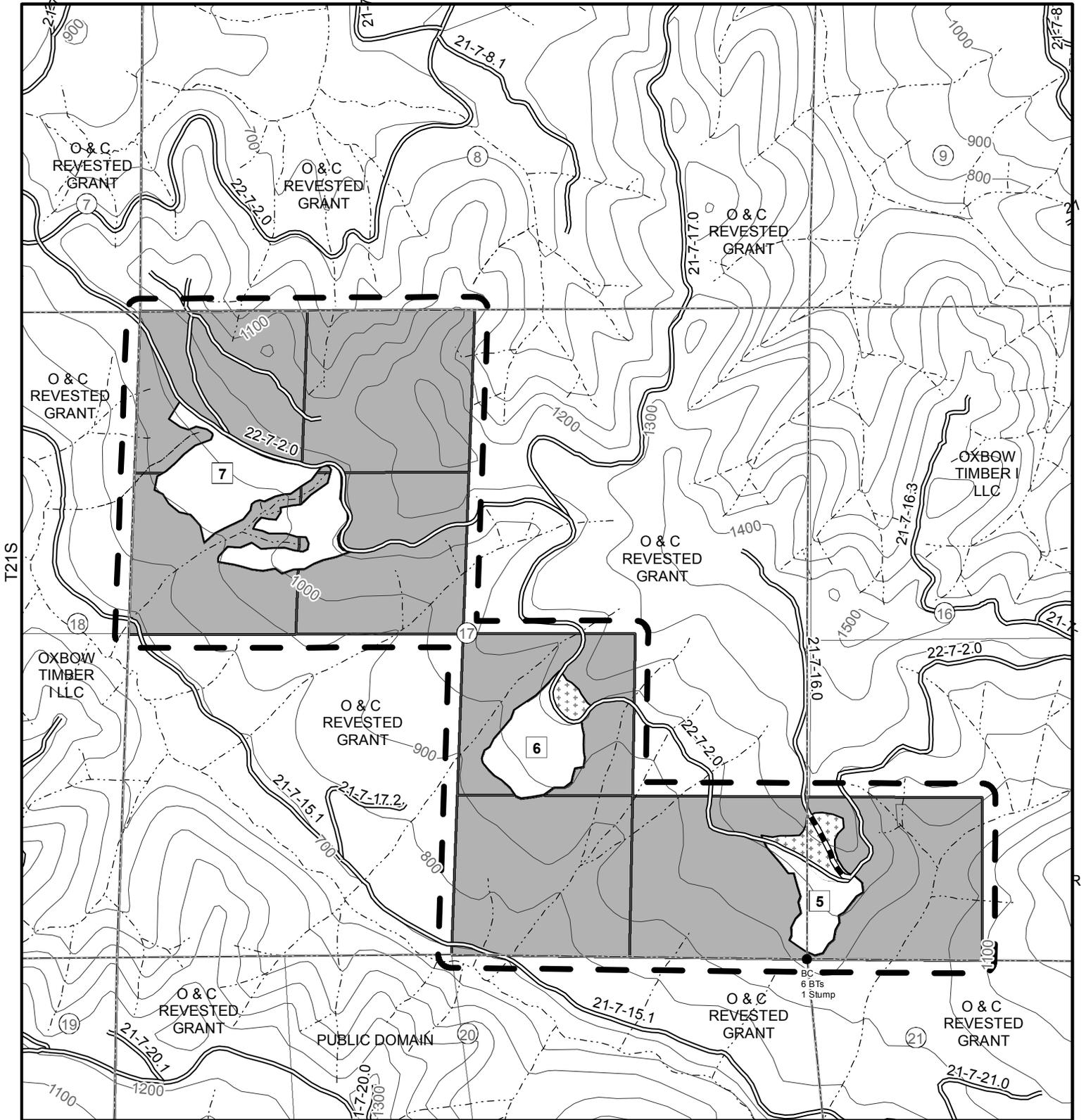


Date: 10/11/2017

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- ⌈ ⌋ Contract Area

1:12,000

1 inch = 1,000 feet



Date: 10/11/2017

Roseburg District
 Bureau of Land Management
 777 NW Garden Valley Blvd.
 Roseburg, Oregon 97471



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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract No.
ORR04-TS-2018.0003
Second Half

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**.

SPECIES	ESTIMATED VOLUME OR QUANTITY <i>(Units Specified)</i>		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir	2,054.0	MBF	\$197.90	\$406,486.60
Western Hemlock	176.0	MBF	\$92.60	\$16,297.60
Western Redcedar	6.0	MBF	\$503.40	\$3,020.40
TOTALS	2,236.0	MBF		\$425,804.60

The apportionment of the total purchase price is as follows:

Unit 1

Douglas Fir	183.0 MBF	X	\$197.90	=	\$36,215.70
Western Hemlock	11.0 MBF	X	\$92.60	=	\$1,018.60
Total	194.0 Mbf				\$37,234.30 ÷ 8.0 acres = \$4,654.29/Acre

Unit 2

Douglas Fir	279.0 MBF	X	\$197.90	=	\$55,214.10
Western Hemlock	36.0 MBF	X	\$92.60	=	\$3,333.60
Total	315.0 Mbf				\$58,547.70 ÷ 12.0 acres = \$4,878.98/Acre

Unit 3

Douglas Fir	349.0 MBF	X	\$197.90	=	\$69,067.10
Western Hemlock	56.0 MBF	X	\$92.60	=	\$5,185.60
Western Redcedar	3.0 MBF	X	\$503.40	=	\$1,510.20
Total	408.0 Mbf				\$75,762.90 ÷ 16.0 acres = \$4,735.18/Acre

Unit 4

Douglas Fir	188.0 MBF	X	\$197.90	=	\$37,205.20
Western Hemlock	8.0 MBF	X	\$92.60	=	\$740.80
Total	196.0 Mbf				\$37,946.00 ÷ 6.0 acres = \$6,324.33/Acre

Unit 5

Douglas Fir	181.0 MBF	X	\$197.90	=	\$35,819.90
Western Hemlock	4.0 MBF	X	\$92.60	=	\$370.40
Western Redcedar	1.0 MBF	X	\$503.40	=	\$503.40
Total	186.0 Mbf				\$36,693.70 ÷ 8.0 acres = \$4,586.71/Acre

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Unit 6

Douglas Fir	346.0 MBF	X	\$197.90 =	\$68,473.40
Western Hemlock	5.0 MBF	X	\$92.60 =	\$463.00
Total	351.0 Mbf			\$68,936.40 ÷ 10.0 acres = \$6,893.64/Acre

Unit 7

Douglas Fir	441.0 MBF	X	\$197.90 =	\$87,273.90
Western Hemlock	19.0 MBF	X	\$92.60 =	\$1,759.40
Total	460.0 Mbf			\$89,033.30 ÷ 19.0 acres = \$4,685.96/Acre

Unit RW1

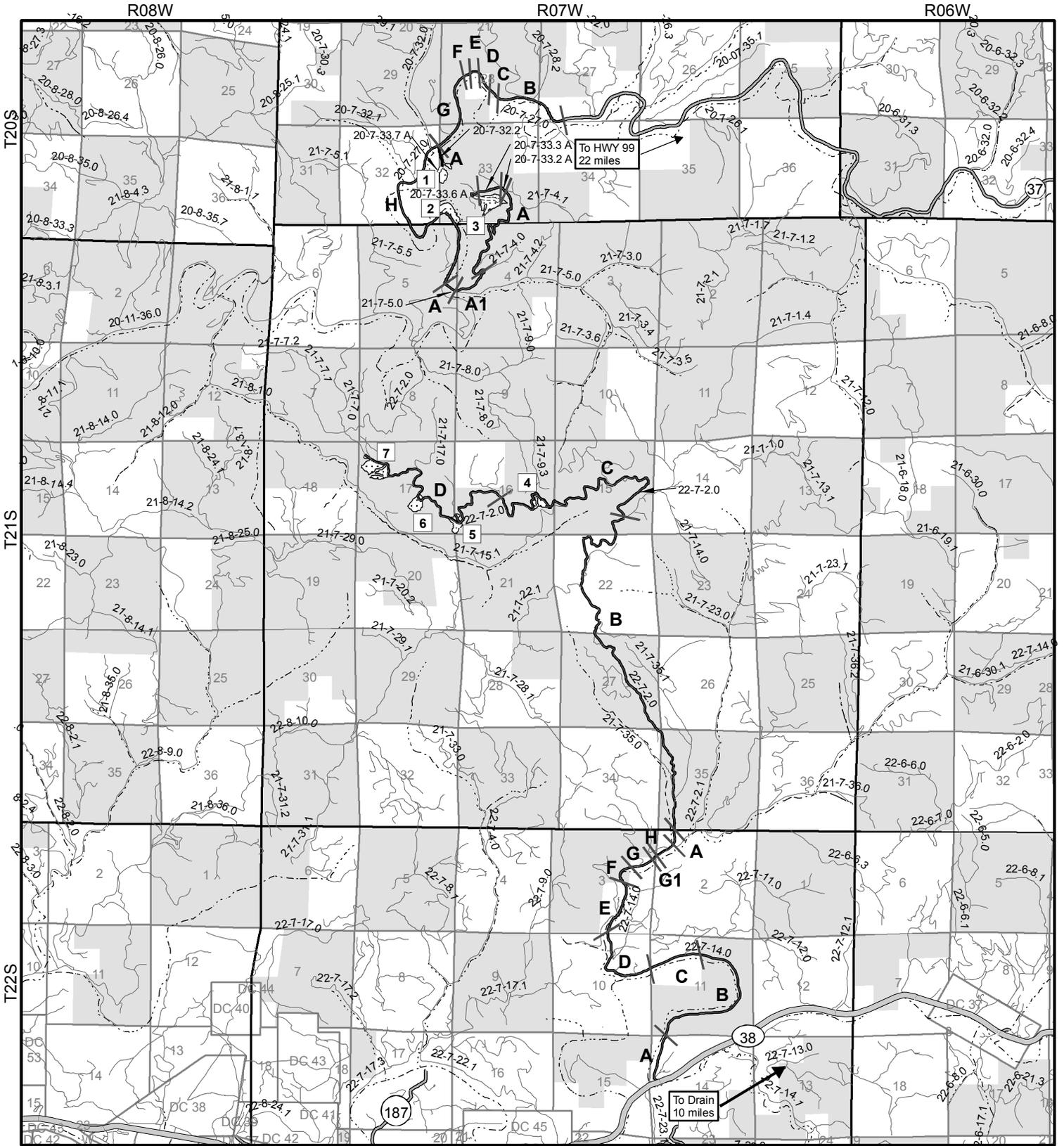
Douglas Fir	16.0 MBF	X	\$197.90 =	\$3,166.40
Western Hemlock	1.0 MBF	X	\$92.60 =	\$92.60
Total	17.0 Mbf			\$3,259.00 ÷ 1.0 acres = \$3,259.00/Acre

Unit RW2

Douglas Fir	57.0 MBF	X	\$197.90 =	\$11,280.30
Western Hemlock	35.0 MBF	X	\$92.60 =	\$3,241.00
Western Redcedar	2.0 MBF	X	\$503.40 =	\$1,006.80
Total	94.0 Mbf			\$15,528.10 ÷ 1.0 acres = \$15,528.10/Acre

Unit RW3

Douglas Fir	14.0 MBF	X	\$197.90 =	\$2,770.60
Western Hemlock	1.0 MBF	X	\$92.60 =	\$92.60
Total	15.0 Mbf			\$2,863.20 ÷ 1.0 acres = \$2,863.20/Acre



Legend

- Segment Break
- Existing Road
- County Road
- Major Stream
- Road Construction
- Haul Route
- Harvest Area
- BLM Lands

1:84,000

1 inch = 1.33 miles



Date: 10/12/2017

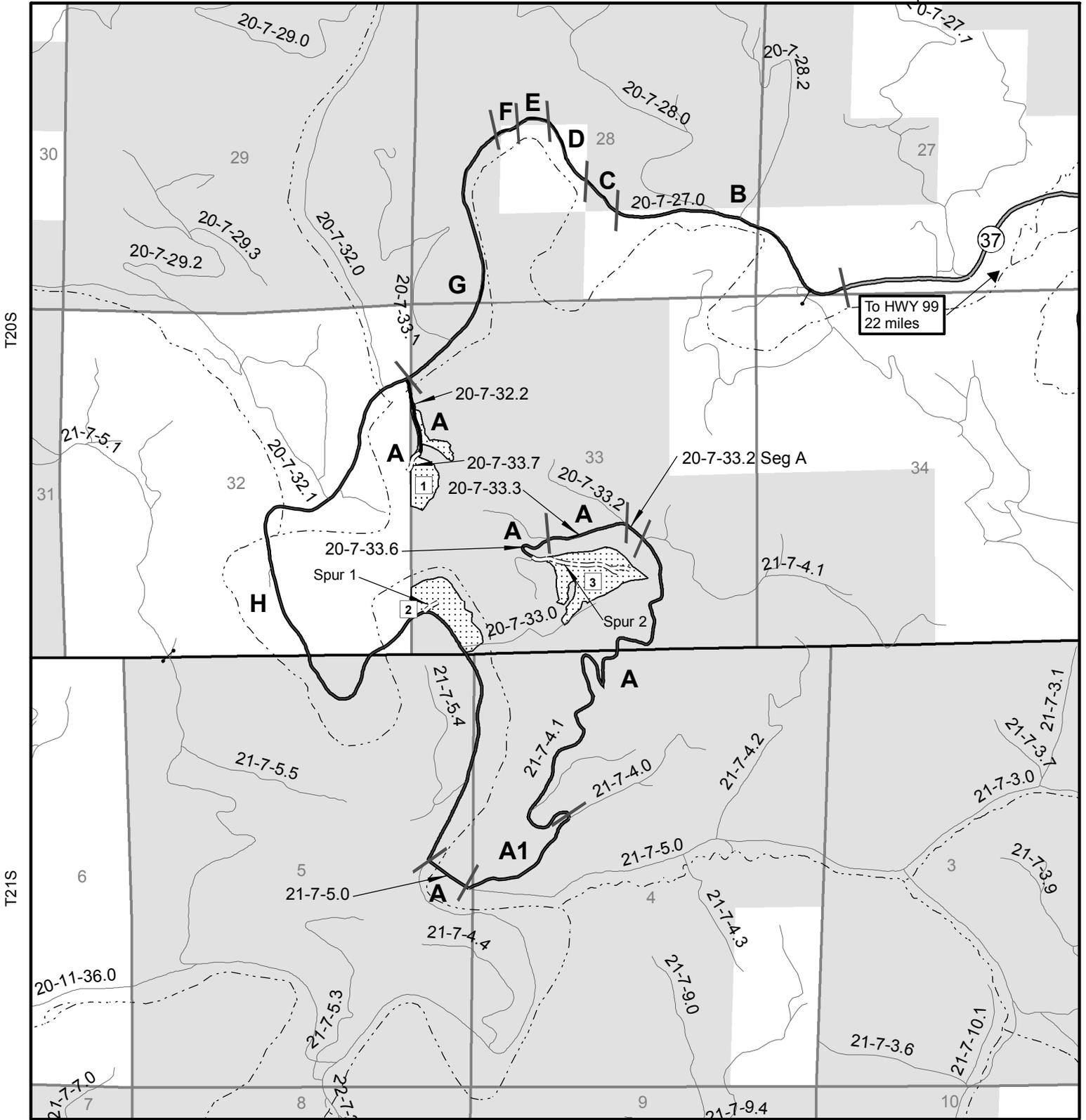
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R07W



Legend

- Gate
- Existing Road
- Segment Break
- County Road
- Major Stream
- Harvest Area
- Road Construction
- BLM Lands
- Haul Route

1:24,000

1 inch = 2,000 feet



Date: 10/12/2017

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Road No.	Road Seg.	Segment Length	Segment Owner	Road Use Fees	Surface Type	Timber Haul Fees	Maintained By
20-7-27.0	B	0.84	BLM		BST	\$0.92	BLM
20-7-27.0	C	0.12	BLM		BST	\$0.92	BLM
20-7-27.0	D	0.16	BLM		BST	\$0.92	BLM
20-7-27.0	E	0.05	BLM		BST	\$0.92	BLM
20-7-27.0	F	0.13	BLM		BST	\$0.92	BLM
20-7-27.0	G	0.80	BLM		BST	\$0.92	BLM
20-7-27.0	H	2.40	BLM		BST	\$0.92	BLM
20-7-32.2*	A Por	0.22	BLM		Rock	\$0.60	Purchaser
20-7-33.2*	A Por	0.08	BLM		Rock	\$0.60	Purchaser
20-7-33.3*	A Por	0.24	BLM		Rock	\$0.60	Purchaser
20-7-33.6*	A Por	0.13	BLM		Rock	\$0.60	Purchaser
20-7-33.7*	A	0.05	BLM		Rock	\$0.60	Purchaser
21-7-4.0*	A1	0.37	BLM		Rock	\$0.60	Purchaser
21-7-4.1*	A Por	1.40	BLM		Rock	\$0.60	Purchaser
21-7-5.0	A Por	0.10	BLM		Rock	\$1.35	BLM
21-7-16.0*	A Por	0.11	BLM		Rock	\$0.60	Purchaser
22-7-2.0	A	0.20	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-2.0	B	4.18	BLM		BST	\$0.92	BLM
22-7-2.0	C	2.75	BLM		BST	\$0.92	BLM
22-7-2.0	D(Por)	2.44	BLM		BST	\$0.92	BLM
22-7-14.0	A (Base)	0.50	PRIVATE		Rock	\$1.55	Seneca
22-7-14.0	A (Imp)	0.50	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-14.0	B	1.60	BLM		Rock	\$1.55	BLM
22-7-14.0	C	0.50	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-14.0	D	0.90	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-14.0	E	0.60	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-14.0	F	0.20	BLM		Rock	\$1.55	BLM
22-7-14.0	G	0.30	SENECA	Paid Off	Rock	\$1.55	Seneca
22-7-14.0	G1	0.10	BLM		Rock	\$1.55	BLM
22-7-14.0	H	0.20	SENECA	Paid Off	Rock	\$1.55	Seneca
Spur 1*	A	0.06	BLM		Rock	\$0.60	Purchaser
Spur 2*	A	0.24	BLM		Rock	\$0.60	Purchaser

* Rockwear Paid to Owner

ROAD MAINTENANCE SPECIFICATIONS

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

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

ROAD MAINTENANCE SPECIFICATIONS

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads listed and/or referenced in Section 42.D., 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.
- 3102 The Purchaser shall furnish and place 100 cu. yds. of aggregate, conforming to the requirements in Section 1000 of Exhibit C of this contract, on the roadway at locations and in the amounts designated by the Authorized Officer.
- This aggregate shall be used to repair surface failures and areas of depleted surface depth excluding damages covered by Section 12 of this contract. The aggregate shall be furnished, hauled, placed, spread and compacted by use of dump trucks, water trucks and motor grader or similar equipment.
- 3103 The purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 3104 The purchaser shall perform other road cleanup including removal of debris, fallen timber, bank slough, and slides which can practicably be accomplished by a motor grader, rubber tired front end bucket loader, rubber tired backhoe or comparable equipment, and by the use of hand tools.

ROAD MAINTENANCE SPECIFICATIONS

- 3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.
- Prior to removal of any slough or slide material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, method of disposal, and the disposal site. Work may commence immediately after agreement.
- Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work, based on current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.
- 3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- 3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.
- Upon completion of agreed upon work, a reduction in timber sale purchase price will be made to offset the cost of the work based upon current BLM Road Cost Guide. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.
- 3107 The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way when directed by the Authorized Officer.
- The Purchaser shall also cut trees or brush encroaching on the road prism that are a result of his activities or winter damage during the contract period. Disposal of such vegetative material shall be by scattering below the road.

ROAD MAINTENANCE SPECIFICATIONS

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

SEASONAL MAINTENANCE - 3200

- 3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.
- 3202 The purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by him, prior to October 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 terms of their contract within thirty 30 calendar days following the expiration of Purchaser's right to cut and remove timber or completion of hauling and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

The Authorized Officer may grant acceptance of Purchaser's maintenance responsibility in part where certain individual roads or road segments are no longer of any use to the Purchaser's remaining removal operations, providing that all contract requirements as specified under Sec. 16(b), Special Provisions Sections 3000, 3100, 3200 and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

ROAD MAINTENANCE SPECIFICATIONS

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

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

OTHER MAINTENANCE - 3400

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

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

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

DECOMMISSIONING – 3500

3501 Decommissioning shall consist of installing water bars, placement of slash and blocking road from access by vehicles. This work is not required for road acceptance under Section 18 of this contract.

3503 Decommissioning shall be performed on existing roads in accordance with these specifications, at the following locations:

Road No.	From Sta	To Sta	Decommission
20-7-33.7	0+00	2+70	Blade, water bar, block
Spur 1	0+00	3+00	Blade, water bar, block
Spur 2	0+00	12+60	Blade, water bar, block

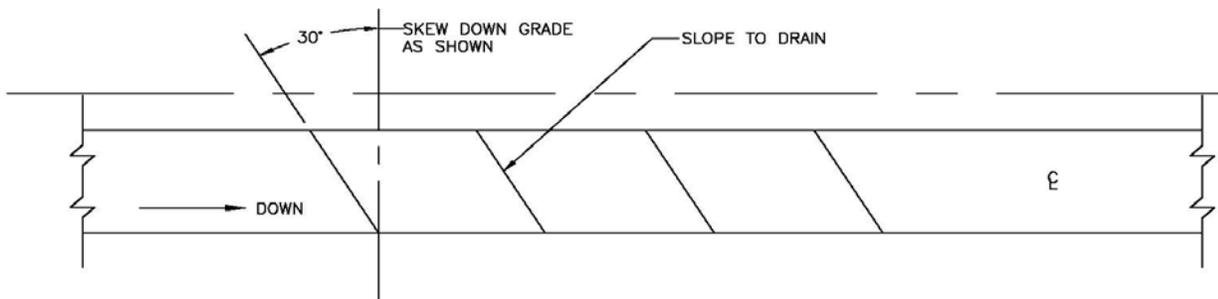
3504 Decommissioning work shall be completed at the end of timber hauling activities .

ROAD MAINTENANCE SPECIFICATIONS

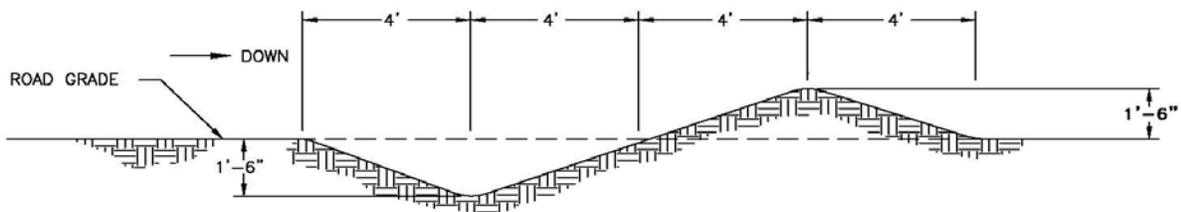
- 3506 Stockpiled slash shall be used to protect exposed areas created by the Purchaser's operations described in these sections. Slash shall be uniformly spread and placed without bunching. The operation shall produce a dense, uniform mat. Where slash is not available exposed soil areas shall be stabilized in accordance with Section 1800.
- 3509 Access shall be blocked with barricades as shown on the typical detail sheet and at locations as shown Subsection 3503.
- 3511 Water barring shall be done on designated roadways, turnouts, disturbed areas and landings.
- 3513 Water bars shall be installed across full width of roadway at locations and spacing shown in the specifications and typical detail sheet. Water bars shall be constructed as shown on typical detail sheet. No water bar will be installed closer than 50 feet to a draw crossing.
- 3514 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 on designated roadways, turnouts, disturbed areas, landings, cut banks, fill slopes and other areas disturbed by the purchaser's operations in accordance with these specifications.

ROAD MAINTENANCE SPECIFICATIONS

EXHIBIT D
 WATERBAR DETAIL



ROAD PLAN
 SCALE: NONE

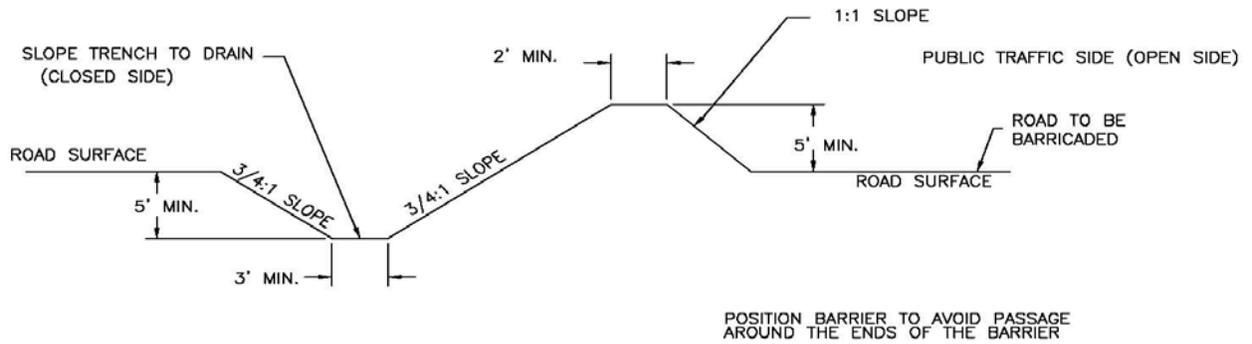


ROAD PROFILE
 SCALE: NONE

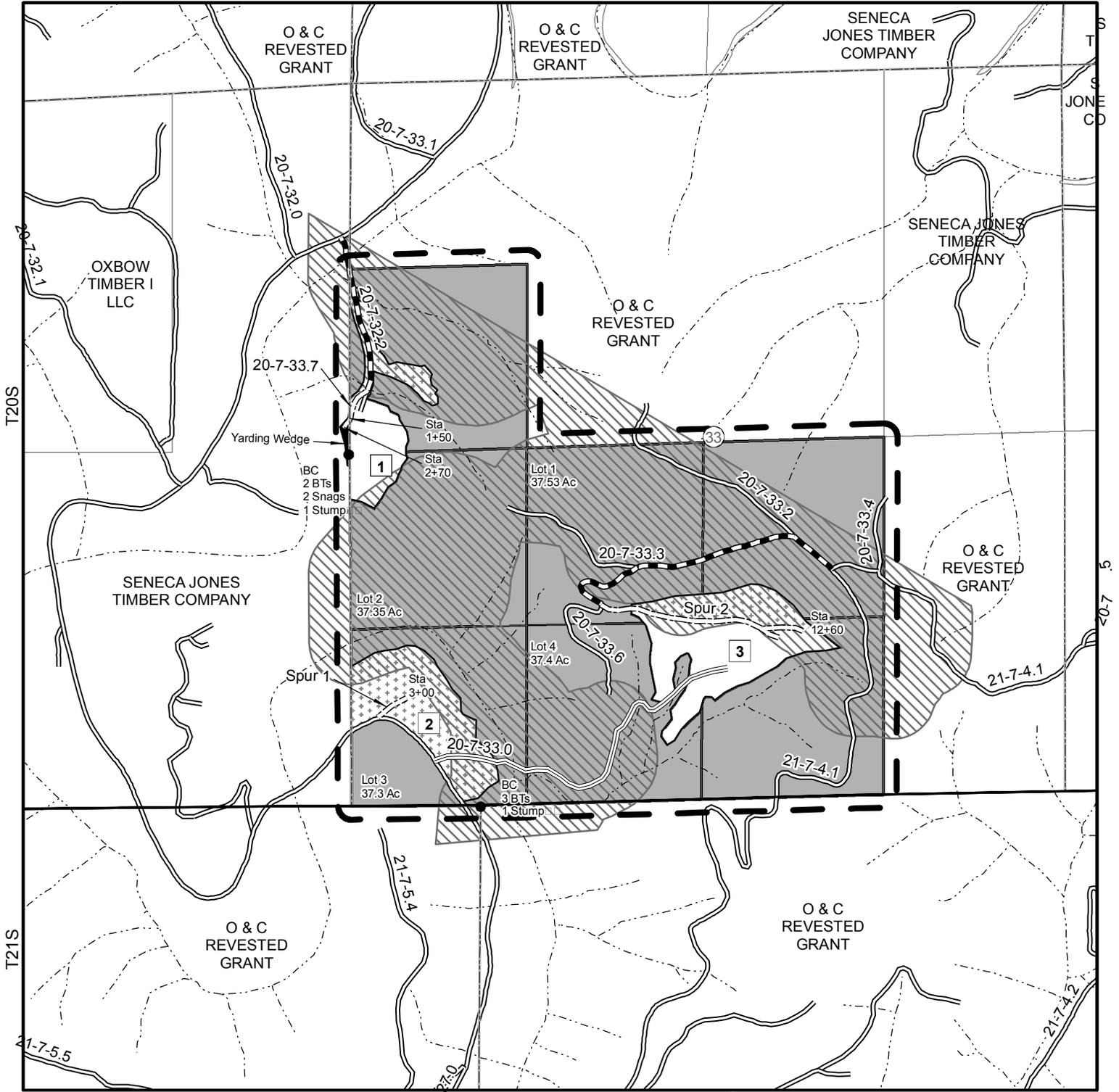
WATERBAR SPACING IN FEET	
ROAD GRADIENT IN %	SPACING
3 TO 5	300
6 TO 10	200
11 TO 15	150
16 TO 20	75
21 TO 35	50

ROAD MAINTENANCE SPECIFICATIONS

EXHIBIT D
TRENCH BARRIER DETAIL



TRENCH BARRIER
SCALE: NONE

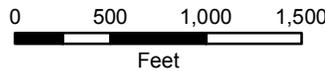


Legend

- Survey Corner
- Stream
- Road Construction
- Road Renovation
- Existing Road
- Undrivable Road
- ⊕ Ground Harvest
- Cable Harvest
- ▨ Reserve Area
- ▬ Yarding Wedge
- ⌈ Contract Area
- ▨ Marbled Murrelet Restrictions
Starting April 1, 2019
Seasonal: April 1 - August 5
Daily: August 6 - September 15

1:12,000

1 inch = 1,000 feet

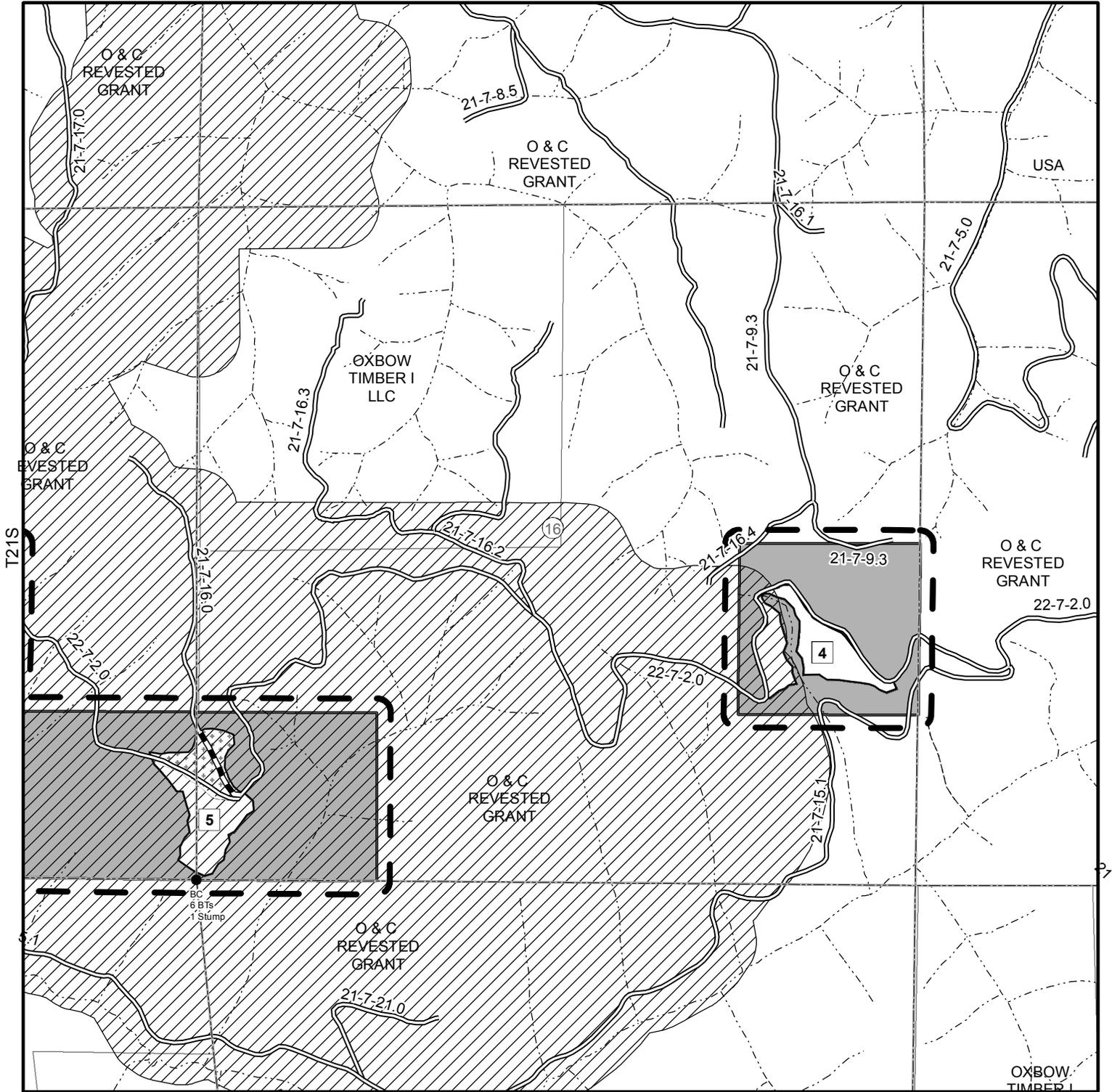


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Legend

- Survey Corner
- Stream
- Road Renovation
- Existing Road
- Ground Harvest
- Cable Harvest
- Reserve Area
- ⌈ Contract Area
- ▨ Marbled Murrelet Restrictions
Seasonal: April 1 - August 5
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1:12,000

1 inch = 1,000 feet

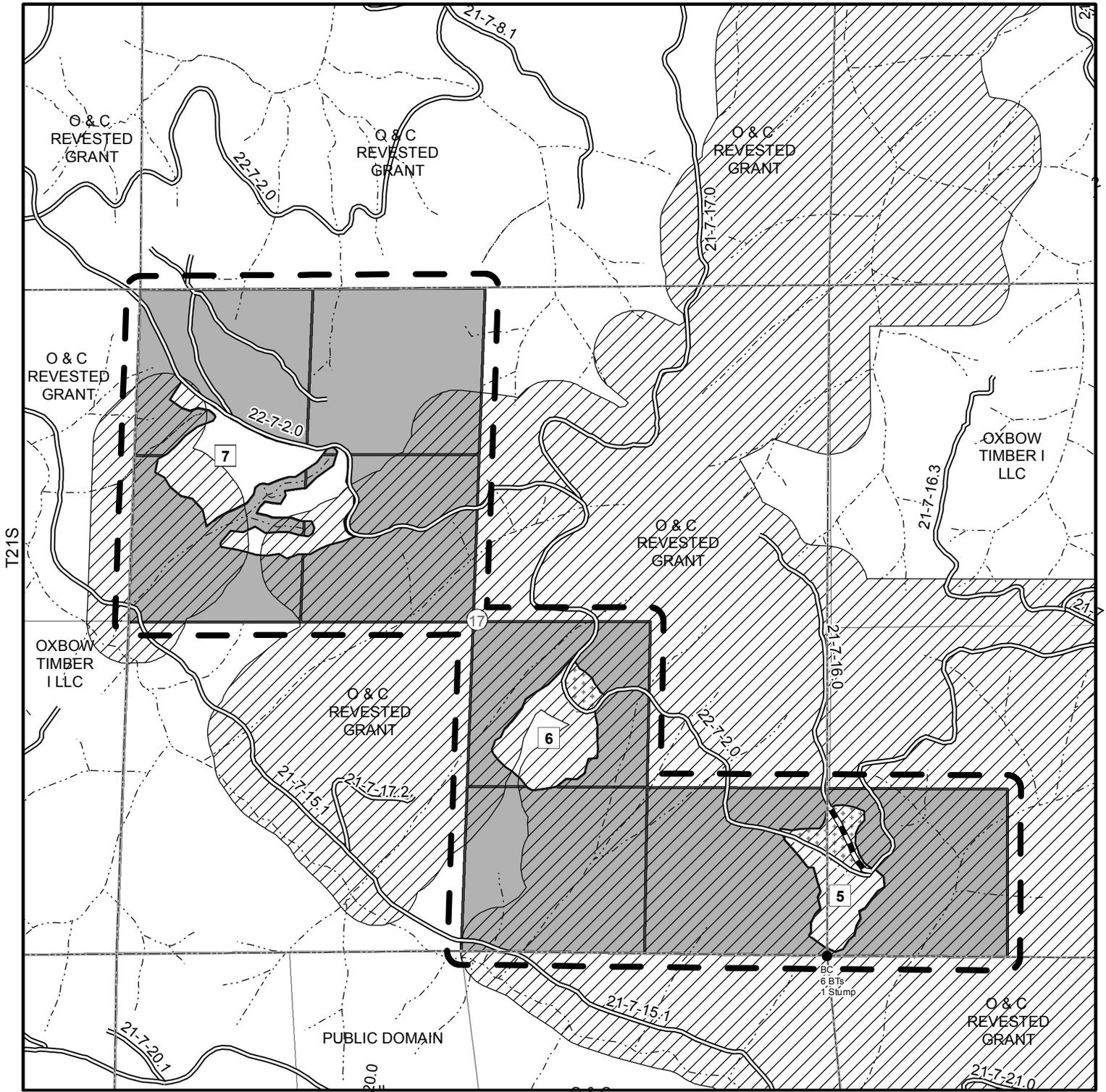


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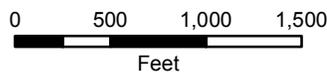


Legend

- Survey Corner
- Stream
- Road Renovation
- Existing Road
- ☒ Ground Harvest
- ☐ Cable Harvest
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**United States
Department of the Interior
Bureau of Land Management**

Timber Appraisal

Sale Name: Second Half	Sale Date: Tuesday, December 12, 2017
BLM District: Roseburg DO	Unit of Measure: 16' MBF
Contract #: ORR04-TS-2018.0003	Contract Term: 36 months
Sale Type: Advertised	Contract Mechanism: 5450-3 Sale of Timber - Lump Sum

SBA Set-Aside

Content

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

Prepared By: Coppersmith, Jason H

Approved By: Snider, Douglas A

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Douglas	20S	7W	33	SW1/4NW1/4; SW1/4; W1/2SE1/4	Willamette
O&C	Douglas	21S	7W	16	SW1/4SW1/4; NE1/4SE1/4	Willamette
O&C	Douglas	21S	7W	17	NW1/4; W1/2SE1/4; SE1/4SE1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	2,054.0	2,137.0	2,139.0	51,245	39	10,127
Western Hemlock	176.0	196.0	203.0	3,867	203	1,129
Western Redcedar	6.0	6.0	6.0	136	3	60
Totals	2,236.0	2,339.0	2,348.0	55,248	245	11,316

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
0.0	79.0	3.0	82.0	27.3

Logging Costs

Stump to Truck	\$325,784.11
Transportation	\$170,560.00
Road Construction	\$140,146.93
Maintenance/Rockwear	\$33,133.20
Road Use	\$0.00
Other Allowances	\$8,340.00
Total:	\$677,964.24
Total Logging Cost per MBF:	\$303.20

Utilization Centers

<u>Location</u>	<u>Distance</u>	<u>% of Net Volume</u>
Winchester, OR	57.0 miles	100 %

Profit & Risk

Basic Profit & Risk	10 %
Additional Risk	2 %
Total Profit & Risk	12 %

Tract Features

Quadratic Mean DBH	12.7 in
Average GM Log	42 bf
Average Volume per Acre	27.3 mbf
Recovery	95 %
<u>Net MBF volume:</u>	
Green	2,236.0 mbf
Salvage	0 mbf
Export	0 mbf
<u>Ground Base Logging:</u>	
Percent of Sale Volume	36 %
Average Yarding Slope	15 %
Average Yarding Distance	150 ft
<u>Cable Logging:</u>	
Percent of Sale Volume	64 %
Average Yarding Slope	45 %
Average Yarding Distance	200 ft
<u>Aerial Logging:</u>	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	August 2017
Cruised By	Coppersmith, Kress, Snider, Kehoe, Franks
Cruise Method	3-P and 100% of minor speices

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	10,127	2,054.0	\$569.37	\$68.32	\$303.20	\$0.00	\$197.90	\$406,486.60
Western Hemlock	1,129	176.0	\$449.80	\$53.98	\$303.20	\$0.00	\$92.60	\$16,297.60
Western Redcedar	60	6.0	\$916.63	\$110.00	\$303.20	\$0.00	\$503.40	\$3,020.40
Totals	11,316	2,236.0						\$425,804.60

Percent of Volume By Log Grade

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				36.0 %	56.0 %	8.0 %	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill			Camp Run
Western Redcedar							100.0 %

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir				27.0 %	66.0 %	7.0 %	

Second Half**Unit Summary****ORR04-TS-2018.0003****Unit: 1**

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	183.0	191.0	191.0	926
Western Hemlock	11.0	12.0	13.0	78
Totals:	194.0	203.0	204.0	1,004

Net Volume/Acre: 24.3 MBF

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

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	279.0	290.0	290.0	1,247
Western Hemlock	36.0	40.0	41.0	207
Totals:	315.0	330.0	331.0	1,454

Net Volume/Acre: 26.3 MBF

Regeneration Harvest	0.0
Partial Cut	12.0
Right of Way	0.0
Total Acres:	12.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	349.0	362.0	362.0	1,748
Western Hemlock	56.0	63.0	65.0	379
Western Redcedar	3.0	3.0	3.0	27
Totals:	408.0	428.0	430.0	2,154

Net Volume/Acre: 25.5 MBF

Regeneration Harvest	0.0
Partial Cut	16.0
Right of Way	0.0
Total Acres:	16.0

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	188.0	196.0	196.0	817
Western Hemlock	8.0	9.0	10.0	72
Totals:	196.0	205.0	206.0	889

Net Volume/Acre: 32.7 MBF

Regeneration Harvest	0.0
Partial Cut	6.0
Right of Way	0.0
Total Acres:	6.0

Unit: 5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	181.0	188.0	188.0	958
Western Hemlock	4.0	5.0	6.0	58
Western Redcedar	1.0	1.0	1.0	27
Totals:	186.0	194.0	195.0	1,043

Unit: 6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	346.0	360.0	360.0	1,577
Western Hemlock	5.0	5.0	5.0	52
Totals:	351.0	365.0	365.0	1,629

Unit: 7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	441.0	459.0	459.0	2,351
Western Hemlock	19.0	21.0	21.0	96
Totals:	460.0	480.0	480.0	2,447

Unit: RW1

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	16.0	17.0	17.0	61
Western Hemlock	1.0	1.0	1.0	4
Totals:	17.0	18.0	18.0	65

Unit: RW 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	57.0	59.0	61.0	384
Western Hemlock	35.0	39.0	40.0	169
Western Redcedar	2.0	2.0	2.0	6
Totals:	94.0	100.0	103.0	559

Net Volume/Acre: 23.3 MBF

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

Net Volume/Acre: 35.1 MBF

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

Net Volume/Acre: 24.2 MBF

Regeneration Harvest	0.0
Partial Cut	19.0
Right of Way	0.0
Total Acres:	19.0

Net Volume/Acre: 17.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	1.0
Total Acres:	1.0

Net Volume/Acre: 94.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	1.0
Total Acres:	1.0

Unit: RW 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	14.0	15.0	15.0	58
Western Hemlock	1.0	1.0	1.0	14
Totals:	15.0	16.0	16.0	72

Net Volume/Acre: 15.0 MBF

Regeneration Harvest	0.0
Partial Cut	0.0
Right of Way	1.0
Total Acres:	1.0

Total Stump To Truck	Net Volume	\$/MBF
\$325,784.11	2,236.0	\$145.70

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Small Yarder	GM MBF	152.0	\$244.24	\$37,124.48	For downhill logging in unit 1. 3 Loads/Day
Cable: Small Yarder	GM MBF	1,456.0	\$146.54	\$213,362.24	For uphill logging in units 3, 4, 5, 6 & 7. 4 Loads/Day
Wheel Skidder	GM MBF	597.0	\$98.78	\$58,971.66	For all ground-based logging. 6 Loads/Day
Track Skidder	GM MBF	99.0	\$86.42	\$8,555.58	For logging all new construction. 6 Loads/Day
Shovel	GM MBF	35.0	\$76.29	\$2,670.15	For roadside logging. 6 Loads/Day
Subtotal				\$320,684.11	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Lift Tree	Each	34.0	\$150.00	\$5,100.00	
Subtotal				\$5,100.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Subtotal				\$0.00	

Total	Net Volume	\$/MBF
\$170,560.00	2,236.0	\$76.28

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Winchester, OR	57.0	All Gross Merch	Hour	2,132.0	\$80.00	\$170,560.00	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$173,280.13	2,236.0	\$77.50

Cost Item	Total Cost
Road Construction:	\$140,146.93
Road Maintenance/Rockwear:	\$33,133.20
Road Use Fees:	\$0.00

Comments:

Maintenance and Rockwear Payable to BLM: \$18,528.72
 Maintenance and Rockwear payable to Seneca: \$5,917.28

Total	Net Volume	\$/MBF
\$8,340.00	2,236.0	\$3.73

Environmental Protection

Cost item	Total Cost
Equipment Cleaning	\$990.00
Subtotal	\$990.00

Slash Disposal & Site Prep

Cost item	Total Cost
Burning of Landing Piles	\$1,225.00
Landing Piling/Covering	\$6,125.00
Subtotal	\$7,350.00

Comments:

Equipment Cleaning Includes; 1 Yarder, 1 Wheel Skidder, 1 Track Skidder, and 3 Shovels. All estimated at 3 hours a piece for cleaning. The burning of landing piles have a buyout option with an admin fee of 21.8%. The total cost of the buyout is \$1,492.05.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 5.2.0.103
Updated: 6/14/2017

Summary of All Roads and Projects

T.S. Contract Name: Second Half Tract No: 2018.0003 Sale Date: Nov
Prepared by: Tking Ph: 3227 Print Date: 11/8/2017 8:18:46 AM
Construction: 18.30 sta
Improve: 0.00 sta Renov: 41.30 sta Decom: 0.00 sta Temp: 0.00 sta

200 Clearing and Grubbing: 1.8 acres	\$6,171.59
300 Excavation: 1,960 cy	\$5,239.97
Haul < 500 ft: 0 sta-yds	
Haul > 500 ft: 0 yd-mi	
400 Drainage:	\$15,435.44
Culvert: 0 lf DownSpout: 0 lf	
PolyPipe: 304 lf	
500 Renovation:	\$4,689.34
Blading 0.33 mi	
700-1200 Surfacing:	\$102,705.62
Commercial Quarry Name: 6" Minus 2,025 LCY	
Commercial Quarry Name: 3" minus 1,196 LCY	
Commercial Quarry Name: 1 1/2" MINUS 463 LCY	
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.0 acres	\$0.00
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$398.02
Manual Brushing: 0.3 acres	
2300 Engineering: 0.00 sta.	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$4,517.95 Surf. \$989.00.....	\$5,506.95
Quarry Development:	\$0.00

Total: 2,236 mbf @ \$62.678/mbf = \$140,146.93

Notes:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Contract Name: Second Half
Sale Date: Nov
Tract No: 2018.0003

ROAD CONSTRUCTION SUMMARY

1/ Const/Impr/Renov/Decom/Temp 2/ yd-miles haul 3/ Lin ft CMP 4/ Lin ft Polypipe 5/ Lin ft Downspout 6/ slide removal cy

Road Number	Type 1/	Miles	Clear Grubb	Excav -ation	Drain -age	Renovation	Surf-acing	Rdside Brush	Mobil-ization	Sub-Total
20-7-32.2	R	0.22	\$836 0.4acres		\$5,014 4/ 80'	\$958 0.22mi	\$18,836 728LCY		\$1,056	\$26,701
20-7-33.2	R	0.08	\$714			\$798	\$1,971 68LCY		\$135	\$3,618
20-7-33.3	R	0.24	\$781 0.3acres		\$6,193 4/ 144'	\$1,274	\$14,934 537LCY		\$922	\$24,105
20-7-33.6	R	0.13	\$1,014 0.3acres		\$2,507 4/ 40'	\$1,507	\$14,857 519LCY		\$807	\$20,691
20-7-33.7	C	0.05	\$745	\$783 300cy			\$11,048 427LCY		\$537	\$13,113
21-7-16.0	R	0.11				\$152 0.11mi		\$398 0.3ac	\$18	\$569
Spur 1	C	0.06	\$521 0.2acres	\$795 300cy					\$44	\$1,360
Spur 2	C	0.24	\$1,562 0.6acres	\$3,662 1360cy	\$1,720 4/ 40'		\$41,059 1405LCY		\$1,988	\$49,991

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
1700	Erosion Control
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:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

Burst Strength - The resistance of a geotextile material to rupture from pressure applied at right angles to the plane of the geotextile material under specified conditions, usually

TIMBER SALE ROAD SPECIFICATIONS

expressed as the amount of pressure causing failure. Rupture or burst results from tensile failure of the geotextile material.

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

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

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

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

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

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

102a - Tests Used in These Specifications:

AASHTO T 11

Quantity of rock finer than No. 200 sieve.

AASHTO T 27

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

AASHTO T 89

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

AASHTO T 90

Plastic limits and plasticity index of soil.

a. Plastic limit - lowest water content at which the soil remains plastic.

b. Plasticity index - range of water content, within which the material is in a plastic state.
Numerical difference between the liquid and plastic limits of the soil.

AASHTO T 96

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

TIMBER SALE ROAD SPECIFICATIONS

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.

TIMBER SALE ROAD SPECIFICATIONS

AASHTO T 248

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

ASTM D 4564

Determination of relative density of cohesionless soils.

DMSO (dimethyl sulfide)

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

- 103 - Compaction equipment shall meet the following requirements:
- 103f - Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer. The towing vehicle and roller or self-propelled unit meeting the above requirements shall be considered a vibratory roller unit.
- 103g - Vibratory compactor. Vibratory compactors shall consist of multiple or gang-type compacting units or pads with a minimum variable width of 2 feet. It shall be self-contained and capable of compacting material as required.
- 103h - 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 steps 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.

TIMBER SALE ROAD SPECIFICATIONS

CLEARING AND GRUBBING - 200

- 201 - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans and as staked on the ground.
- 202 - Where clearing limits have not been staked, established by these specifications or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet out from the toe of the fill slope.
- 203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 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 and 204c between the top of the cut slope and the toe of the fill slope.
- 204a - Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.
- 204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.
- 205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- 210 - Disposal of clearing and grubbing debris shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

- 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.

- 213 - No clearing or grubbing debris shall be left lodged against standing trees.

EXCAVATION AND EMBANKMENT - 300

- 301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, and 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.

- 303 - Suitable material removed from the excavation shall be used in the formation of embankment subgrade, shoulders, slopes, bedding, backfill for structures, and for other purposes as shown on the plans.

- 305 - Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earth-moving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

- 305a - Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.

TIMBER SALE ROAD SPECIFICATIONS

- 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.

- 305c - Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12-inch layers. Material containing more than 25 percent rock not larger than 12- inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12-inches in diameter may be used to construct 2-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.

- 306 - 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, 103g, 103h and 103i.

- 306a - Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be a minimum of 4 passes over each full-width layer or until visual displacement ceases.

- 320 - Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.

- 321 - Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 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

TIMBER SALE ROAD SPECIFICATIONS

Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

- 324 - Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2 feet on the uphill side.
- 327 - 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

- 401 - This work shall consist of furnishing and installing pipe culverts and other erosion control devices in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Individual lengths and locations are approximate; final lengths and locations will be determined by the Authorized Officer upon completion of the roadbed 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.
- 403 - 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.
- 404 - Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, 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.

TIMBER SALE ROAD SPECIFICATIONS

- 405e - 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.
- 407 - Special sections, such as elbows, branch connections, and flared-end sections, shall be of the same gauge as the pipe to which they are joined, and shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274.
- 408 - Pipe culverts and pipe-arch culverts shall be placed on the bed starting at the downstream end with the inside circumferential laps pointing downstream and with the longitudinal laps at the side or quarter points. Coupling bands of the 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.
- 410 - Pipe shall be unloaded and handled with reasonable care. If the Authorized Officer determines any structure is damaged to the extent that it is unsuitable for use in the road construction, it shall be replaced at the Purchaser's expense.
- 411 - Trenches necessary for the installation of pipe culverts shall conform to the lines, grades, dimensions, and typical diagram that are shown on the Culvert Installation Detail Sheet.
- 412 - 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.
- 416 - Select-fill material for pipe culverts shall be well graded crushed rock material free of excess moisture and devoid of rocks or stones 3 inches or larger, which may impinge upon and damage the pipe or otherwise interfere with proper compaction.

TIMBER SALE ROAD SPECIFICATIONS

- 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 306A.
- 418 - Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- 423 - Construction of catch basins conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for culverts.
- 424 - 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.
- 427 - 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.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- 501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes and 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.
- 502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.

TIMBER SALE ROAD SPECIFICATIONS

- 502a - Rocks larger than 4 inches in maximum dimension shall be removed from 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 Subsections 103f, 103h, and 103i.
- 504a - Minimum compaction required shall be 3 passes over each full-width layer or until visual displacement ceases.
- 506 - 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.
- 509 - The finished grading shall be approved by the Authorized Officer 3 day prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days' notice prior to final inspection of the grading operations.

WATERING - 600

- 601 - This work shall consist of furnishing and applying water required for the compaction of embankments, roadbeds, backfills, base courses, surface courses, finishing and reconditioning of existing roadbeds, laying dust, or for other uses in accordance with these specifications.
- 602 - Water, when needed for compaction or laying dust, shall be applied at the locations, in the amounts, and during the hours as directed by the Authorized Officer. Amounts of water to be provided will be the minimum needed to properly execute the compaction requirements in conformance with these specifications, and for laying dust during work periods.

TIMBER SALE ROAD SPECIFICATIONS

- 603 - Water trucks used in this work shall be equipped with a distributing device of ample capacity and of such design as to ensure uniform application of water on the road bed.
- 605 - The Purchaser shall secure the necessary water permits and pay all required water fees for use of water sources selected by the Purchaser and approved by the Authorized Officer.

AGGREGATE BASE COURSE - 1000
CRUSHED ROCK MATERIAL

- 1001 - 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.
- 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:

TIMBER SALE ROAD SPECIFICATIONS

TABLE 1004
AGGREGATE BASE COURSE
CRUSHED ROCK MATERIAL
 Percentage by Weight Passing Square Mesh Sieves
 (AASHTO T 11 & T 27) GRADATION

Sieve Designation	A	B	C	D	F	G	H	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	-	-	-	-	-	-
No. 200	2-15	2-15	-	-	3-10	3-12	3-12	-

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

- 1008a - 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.

- 1009 - 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.

TIMBER SALE ROAD SPECIFICATIONS

- 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 8 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.
- 1012 - 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

- 1201 - 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 these 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.

TIMBER SALE ROAD SPECIFICATIONS

- 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	C	C-1	D	D-1	E	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	-	5-30	-	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

TIMBER SALE ROAD SPECIFICATIONS

produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

- 1209 - Shaping and compacting of roadbed base course shall be completed and approved by the Authorized Officer, 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 3 days' notice prior to the inspection.
- 1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved road bed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. 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 103f and 103i . Minimum compaction shall be 3 passes over each full-width layer.

EROSION CONTROL - 1700

- 1701 - This work shall consist of measures to control soil erosion or water pollution during the construction operation through the use of berms, dikes, dams, sediment basins, fiber mats, netting, gravel, mulches, grasses, slope drains, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.

TIMBER SALE ROAD SPECIFICATIONS

- 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.

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.
- 2103 - 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.
- 2103a - Vegetation shall be cut and removed from the road bed between the outside shoulders and the ditch centerline and such vegetation shall be cut to a maximum height of 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.
- 2104 - Trees in excess of 6 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.

TIMBER SALE ROAD SPECIFICATIONS

- 2105 - Vegetation that is outside of the road prism-variable distance that protrudes into the road prism and within 14 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.
- 2106 - Vegetative growth capable of growing 1 foot in height or higher shall be cut, within the road prism-variable distance or as directed by the Authorized Officer.
- 2107 - Inside curves shall be brushed out for a sight distance of 200 feet chord distance or a 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.
- 2109 - 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: SECOND HALF
 CONTRACT NO: ORR04-TS-2018.0003

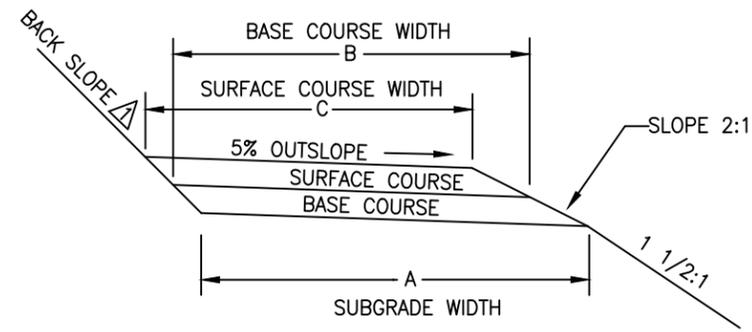
WORK SUMMARY

ROAD NUMBER	STA/MP	TO	STA/MP	CONST.	RENOV.	EXISTING SURFACE TYPE	PROPOSED BASE COURSE		PROPOSED SURFACE COURSE		ROAD DIMENSIONS IN FEET			TYP. ROAD SECTION	SHEET NO.
							DEPTH IN INCHES	TYPE	DEPTH IN INCHES	TYPE	A	B	C		
20-7-32.2	0+00	-	11+80		X	ROCK	6	1004I	3	1004A	16	15	14	4	4
20-7-33.2	0+00	-	4+00		X	ROCK			3	1004A		15	14	4	4
20-7-33.3	0+00	-	12+65		X	ROCK	3	1004A	3	1204C	15	14.5	14	4	4
20-7-33.6	0+00	-	6+85		X	NATIVE	6	1004I	3	1204C	16	15	14	4	4
20-7-33.7	0+00	-	2+70	X		N/A	9	1004I			16	14		1	6
21-7-16.0	0+00	-	6+00		X	ROCK					EXISTING			4	4
SPUR 1	0+00	-	3+00	X		N/A					14			1	5
SPUR 2	0+00		12+60	X		N/A	6	1004I	3	1004A	16	15	14	1	5

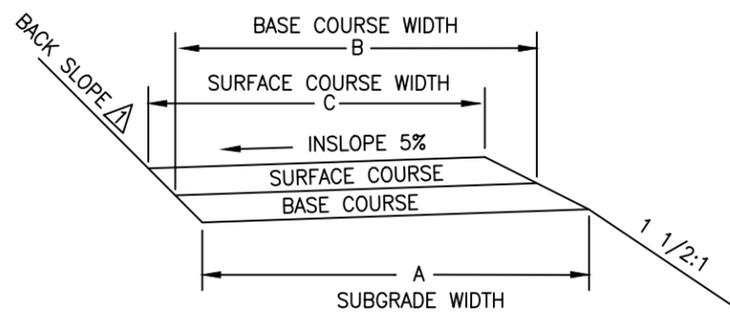
INDEX OF SHEETS

SHEET	DESCRIPTION
1	ROAD SUMMARY
2	TYPICAL SECTIONS
3	VICINITY MAP
4	RENOVATION NOTES
5	CONSTRUCTION NOTES
6	CONSTRUCTION PLAN
7	CULVERT SUMMARY
8	CULVERT INSTALLATION
9	BRUSHING

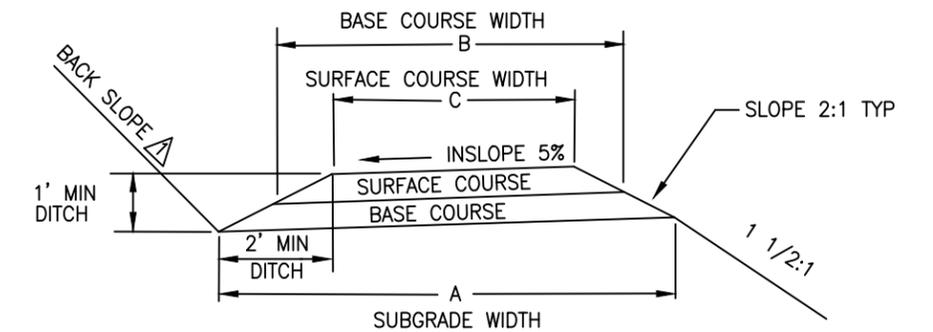




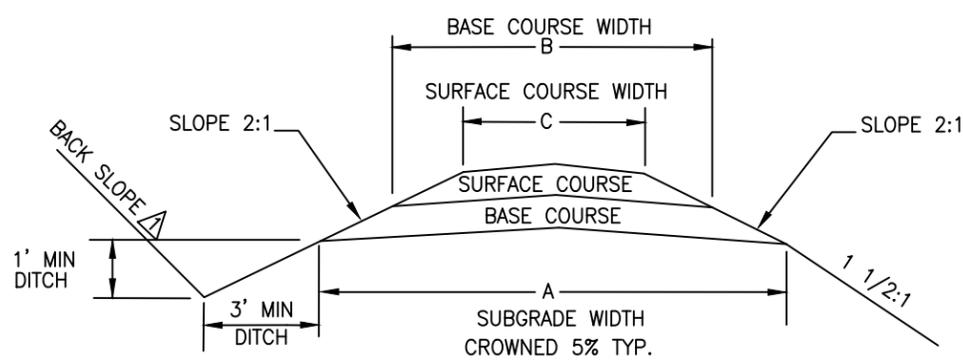
SECTION OUT SLOPE ROAD ①



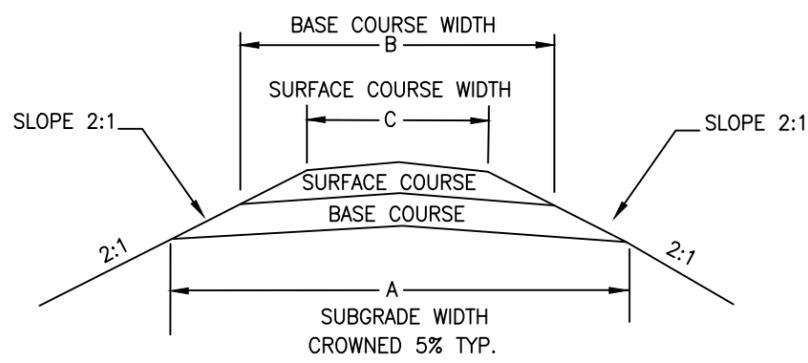
SECTION INSLOPE ROAD ②



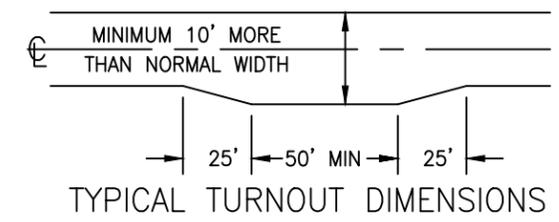
SECTION INSLOPE ROAD ③



SECTION ROAD ④



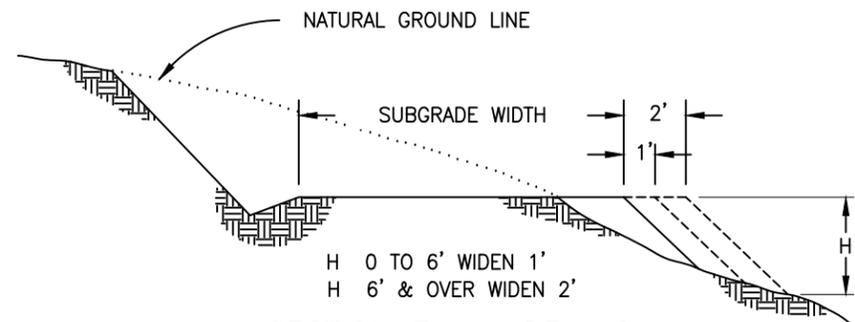
SECTION ROAD ⑤



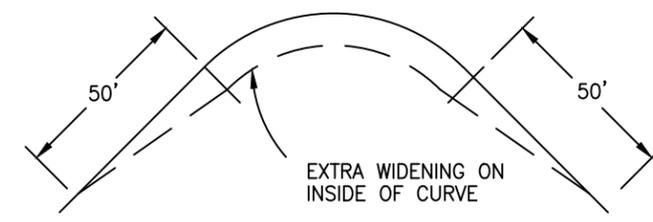
TYPICAL TURNOUT DIMENSIONS

NOTES:

1. Backslope to match existing backslope unless otherwise specified.
2. Backslope for Non-Design Roads:
Slopes under 50%, 3/4:1
Slopes over 50%, 1/2:1
Solid Rock 1/4:1



SECTION FILL WIDENING



DEGREE OF CURVE	8-21	22-35	36-51	52-64	65-79	80-90
EXTRA WIDTH IN FEET	1	2	3	4	5	6

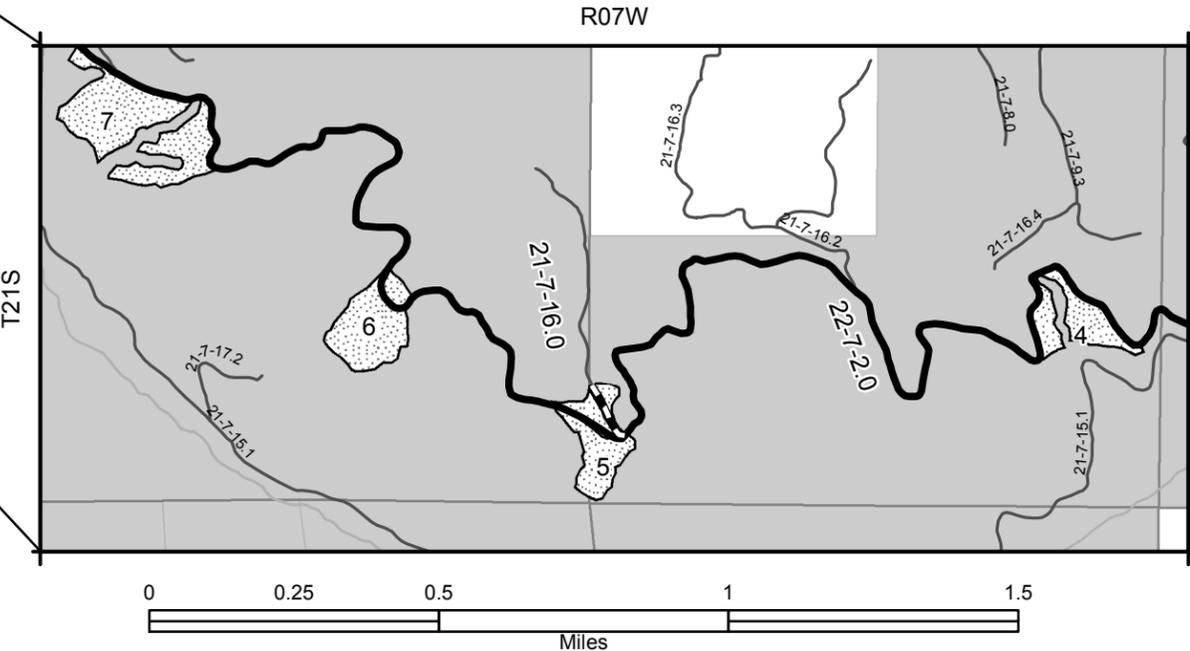
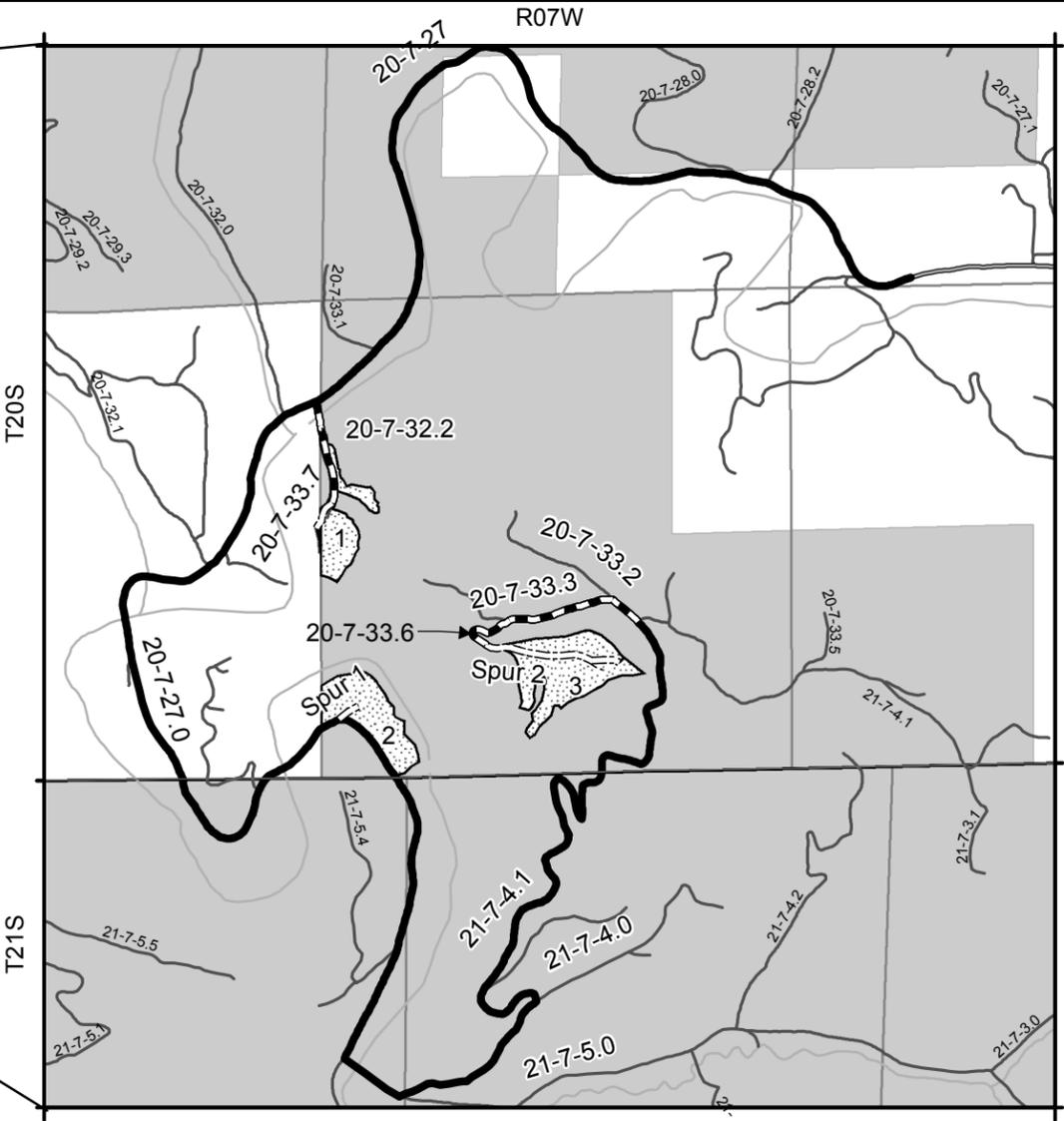
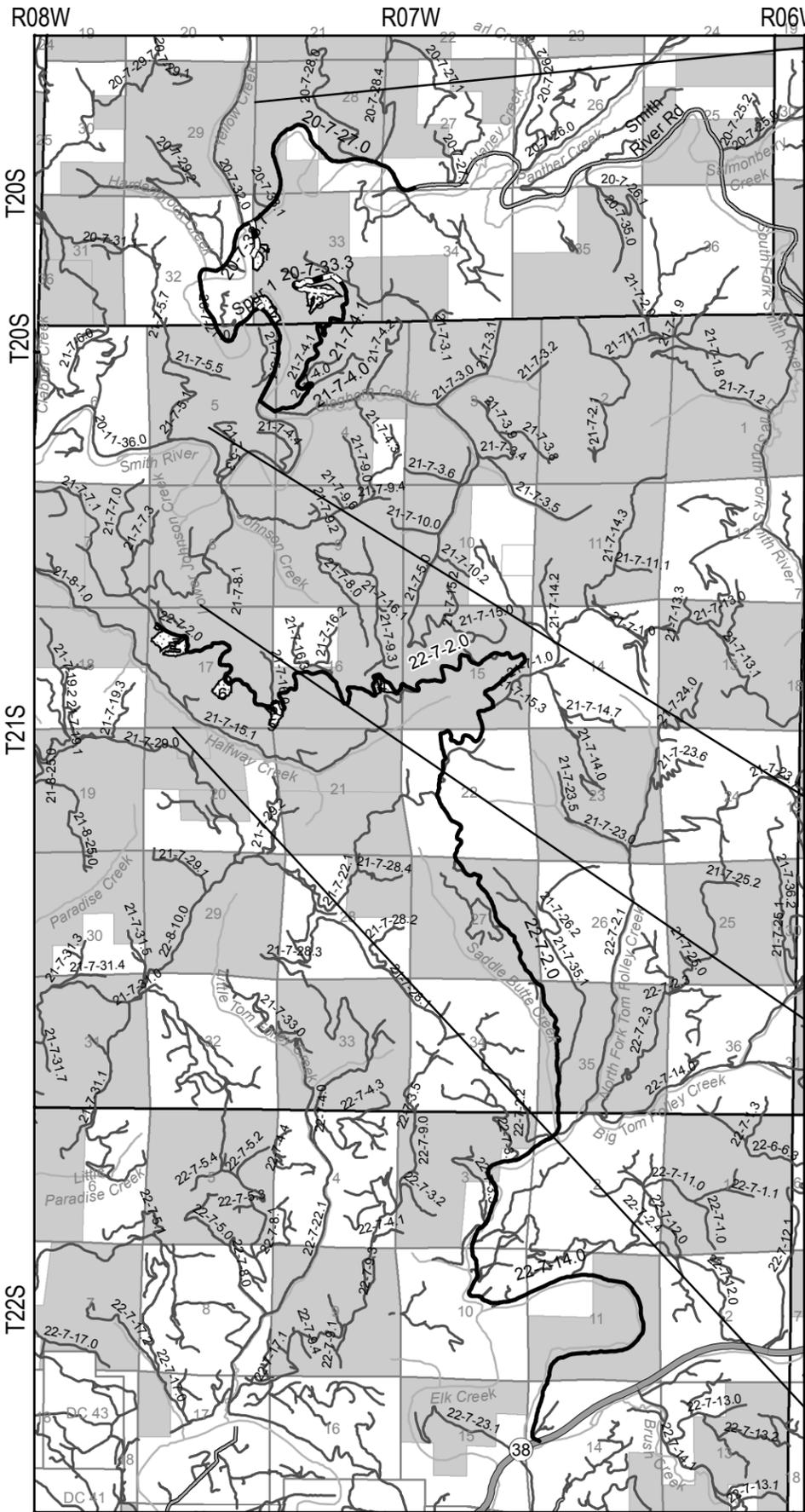
CURVE WIDENING TABLE FOR NON-DESIGN ROADS OR AS SHOWN ON PLANS. MAX 75' CURVE OR AS SHOWN ON PLANS.



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ROSEBURG DISTRICT OFFICE

SECOND HALF
ORR04-TS-2018.0003

TYPICAL SECTIONS



Legend

- Road Construction
- Road Renovation
- Haul Route
- State Highway
- County Road
- Roads
- Harvest Areas
- Major Stream
- Bureau of Land Management
- Private/Unknown

United States Department of the Interior
 Bureau of Land Management
 Roseburg District
 777 NW Garden Valley Blvd
 Roseburg, Oregon 97471

Transverse Mercator
 Zone 10 North NAD 1983



UNITED STATES DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 ROSEBURG DISTRICT OFFICE

SECOND HALF
 ORR04-TS-2018.0003

VICINITY MAP

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. Place 20 cy of 1204C crushed rock at each culvert installation for surface replacement. 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 renovated, shall be surfaced to the same standard as newly constructed turnouts.
4. Back slopes shall be cut to match existing unless otherwise specified.
5. All work shall be performed according to OSHA safety requirements.

<u>STA</u>	<u>DESCRIPTION</u>
<u>20-7-32.2</u>	
0+00	BEGIN RENOVATION AT JCT OF 20-7-32.2 & 20-7-27.0 BEGIN CLEARING, GRUBBING, BLADING, PULL DITCH, CLEAN CULVERTS, COMPACTION AND SURFACING WITH 6" OF 6" MINUS ROCK 1004I AND 3" OF 3" MINUS ROCK 1004A AGGREGATE BASE COURSE
0+50	EXISTING BRIDGE
3+15	REPLACE CULVERT WITH 24"X40' CULVERT, BACKFILL WITH CRUSHED ROCK
11+15	REPLACE CULVERT WITH 24"X40' CULVERT, BACKFILL WITH CRUSHED ROCK
11+80	END RENOVATION, BEGIN CONSTRUCTION OF 20-7-33.7
<u>20-7-33.2</u>	
0+00	BEGIN RENOVATION AT JCT OF 20-7-33.2 & 20-7-4.1 BEGIN CLEARING, GRUBBING DITCH LINE, BLADING, PULL DITCH, CLEAN CULVERTS, COMPACTION AND SURFACING WITH 3" OF 3" MINUS ROCK 1004A AGGREGATE BASE COURSE
4+00	END RENOVATION AT JCT OF 20-7-33.3
<u>20-7-33.3</u>	
0+00	BEGIN RENOVATION AT JCT OF 20-7-33.3 & 20-7-33.2 BEGIN CLEARING, GRUBBING, BLADING, PULL DITCH, CLEAN CULVERTS, COMPACTION AND SURFACING 3" OF 3" MINUS 1004A AGGREGATE BASE COURSE AND 3" OF 1 1/2" MINUS 1204C AGGREGATE SURFACE COURSE
3+00	INSTALL 18"X36' CULVERT WITH SPLASH PAD, BACKFILL CULVERT WITH CRUSHED ROCK
5+90	REPLACE CULVERT WITH 18"X36' CULVERT WITH SPLASH PAD, BACK FILL WITH CRUSHED ROCK
9+00	INSTALL 18"X36' CULVERT WITH SPLASH PAD, BACKFILL CULVERT WITH CRUSHED ROCK
12+40	REPLACE CULVERT WITH 18"X36' CULVERT WITH SPLASH PAD, BACK FILL WITH CRUSHED ROCK
12+65	END RENOVATION AT JCT OF 20-7-33.6

<u>STA</u>	<u>DESCRIPTION</u>
<u>20-7-33.6</u>	
0+00	BEGIN RENOVATION AT JCT OF 20-7-33.6 & 20-7-33.3 BEGIN CLEARING, GRUBBING, BLADING, PULL DITCH, CLEAN CULVERTS, COMPACTION AND SURFACING WITH 6" OF 6" MINUS 1004I AGGREGATE BASE COURSE AND 3" OF 1 1/2" MINUS 1204C AGGREGATE SURFACE COURSE
1+50	INSTALL 24"X40' CULVERT WITH SPLASH PAD, BACKFILL WITH CRUSHED ROCK
6+85	END RENOVATION AT JCT OF SPUR 2
<u>21-7-16.0</u>	
0+00	BEGIN RENOVATION AT JCT OF 21-7-16.0 AND 22-7-2.0 BEGIN BRUSHING, BLADING, PULL DITCH, CLEAN CULVERTS AND COMPACTION
6+00	END RENOVATION



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RENOVATION NOTES
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ROAD CONSTRUCTION

Notes:

1. All roads shall be constructed between established clearing limits in accordance with attached specifications and the work items listed below.
2. All construction shall be done and approved prior to any hauling activity.
3. All work shall be performed according to OSHA safety requirements.

<u>STA</u>	<u>DESCRIPTION</u>
	<u>SPUR 1</u>
0+00	BEGIN CONSTRUCTION AT JCT OF SPUR 1 AND 20-7-27.0 BEGIN CLEARING, GRUBBING, EXCAVATION, EMBANKMENT AND COMPACTION
2+00	CONSTRUCT 50'X100' LANDING
3+00	END CONSTRUCTION
	<u>SPUR 2</u>
0+00	BEGIN CONSTRUCTION AT JCT OF SPUR 2 AND 20-7-33.6 BEGIN CLEARING, GRUBBING, EXCAVATION, EMBANKMENT, COMPACTION AND SURFACING WITH 6" OF 6" MINUS 1004I AND 3" OF 3" 1004A AGGREGATE BASE COURSE
3+25	INSTALL 18"X40' CULVERT
8+00	CONSTRUCT 50'X 250' LANDING RIGHT, SURFACE WITH 9" OF 6" MINUS 1004I AGGREGATE BASE COURSE
11+60	CONSTRUCT 50'X100' LANDING, SURFACE WITH 9" OF 6" MINUS 1004I AGGREGATE BASE COURSE
12+60	END CONSTRUCTION



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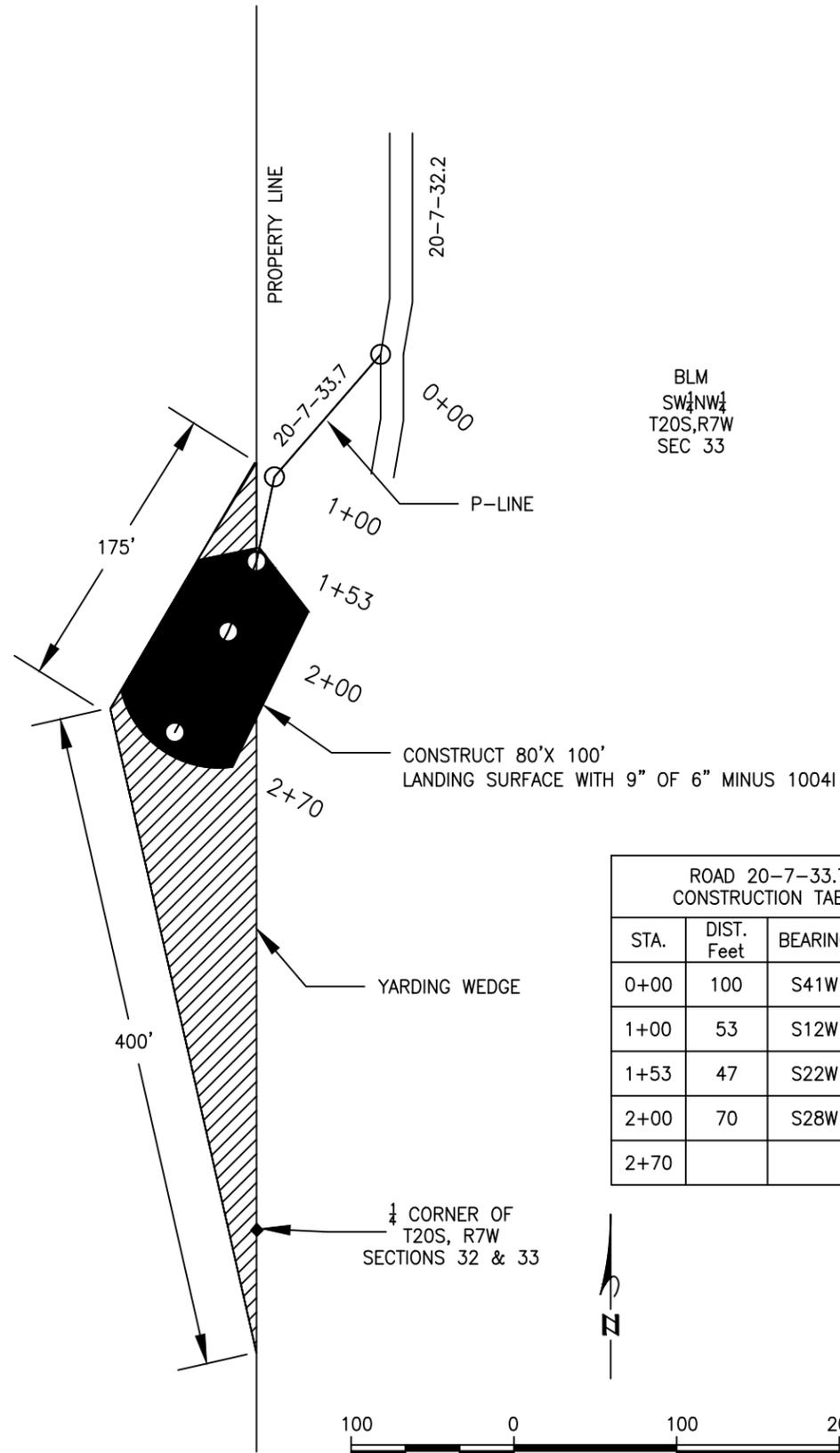
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CONSTRUCTION NOTES

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SJTC
SE 1/4
T20S, R7W
SEC 32

BLM
SW 1/4
T20S, R7W
SEC 33



ROAD 20-7-33.7
CONSTRUCTION TABLE

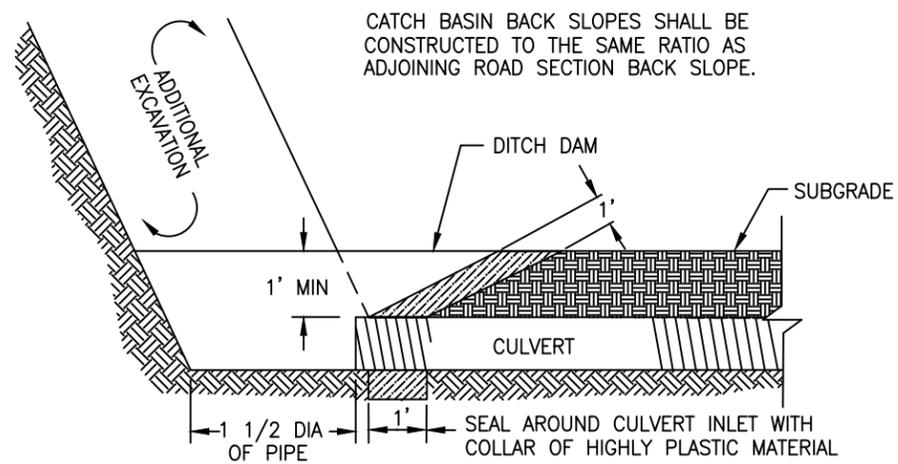
STA.	DIST. Feet	BEARING	% GRADE
0+00	100	S41W	-10
1+00	53	S12W	-10
1+53	47	S22W	-8
2+00	70	S28W	2
2+70			



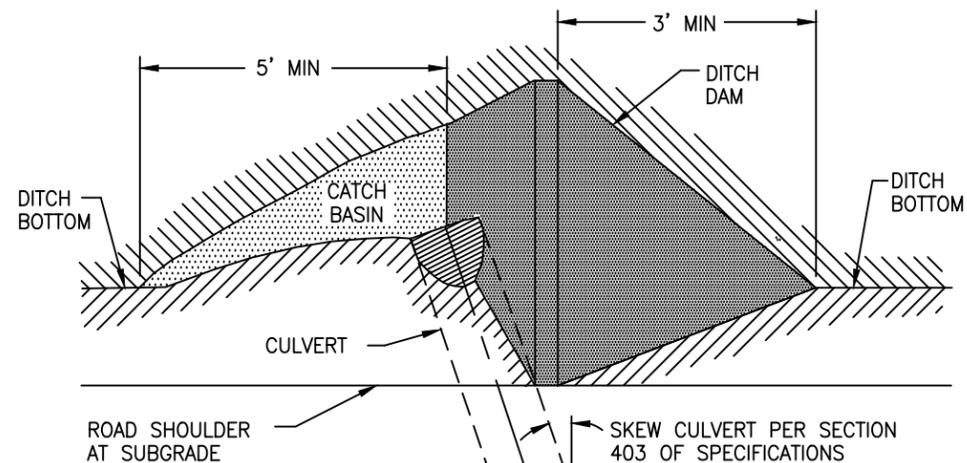
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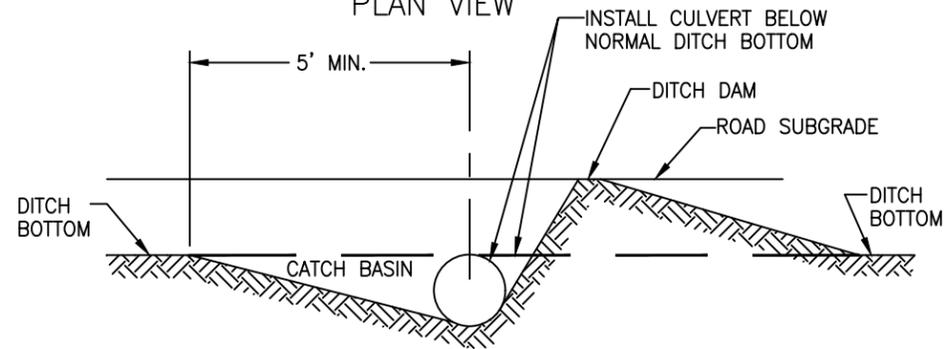
ROAD CONSTRUCTION PLAN



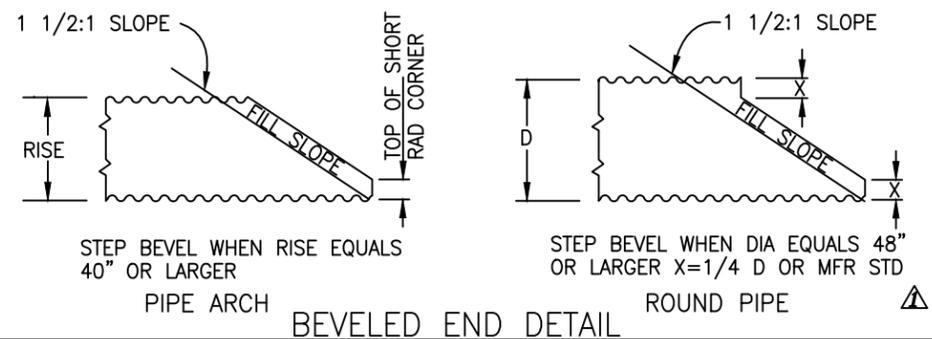
CROSS SECTION AT CATCH BASIN
CULVERT INSTALATION TYPE 2, 3, AND 4



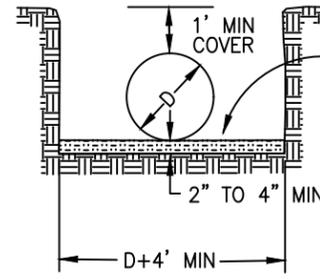
PLAN VIEW



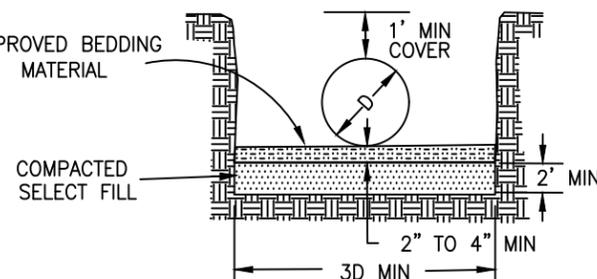
CATCH BASIN ELEVATION



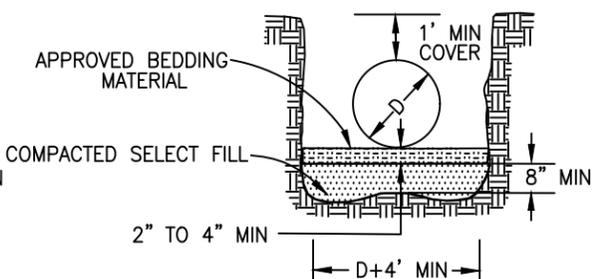
BEVELED END DETAIL



BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION



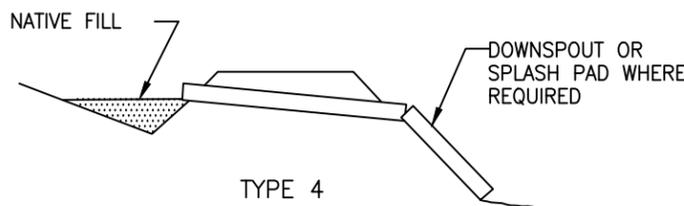
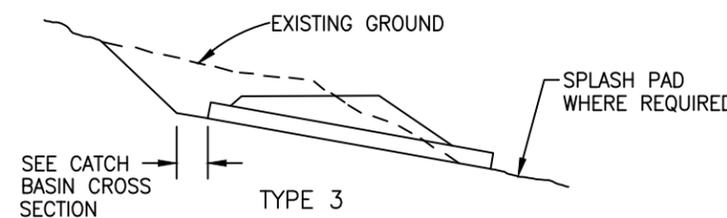
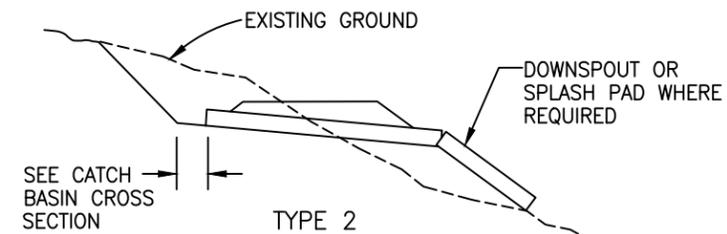
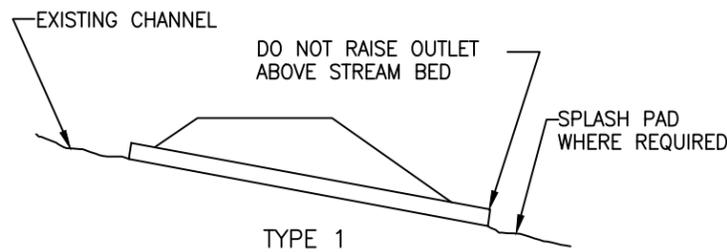
BEDDING OF CULVERTS ON SOFT SPONGY, UNSTABLE SOIL FOUNDATION OR COMPACTED EMBANKMENT



BEDDING OF CULVERTS IN SOLID ROCK OR BOULDER FOUNDATION

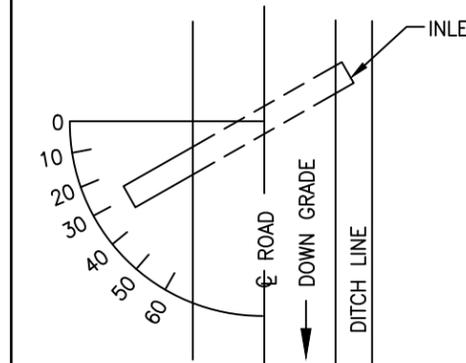
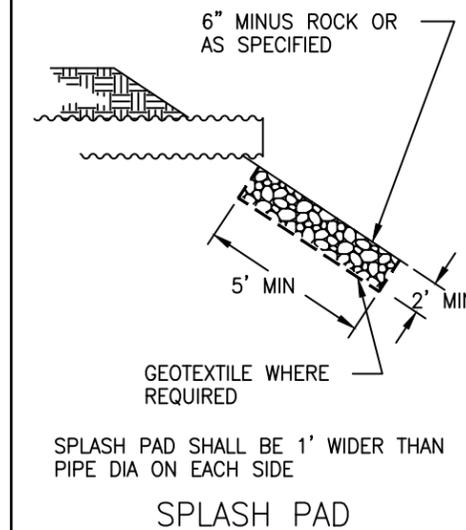
NOTES:

1. BEDDING MATERIAL SHALL BE PLACED LOOSE AND SHAPED TO FIT THE BOTTOM OF THE CULVERT
2. BACKFILL IN ACCORDANCE WITH SECTION 417 OF SPECIFICATIONS
3. MAINTAIN 8" MIN DEPTH BETWEEN HIGH POINT OF ROCK AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT BEDDING

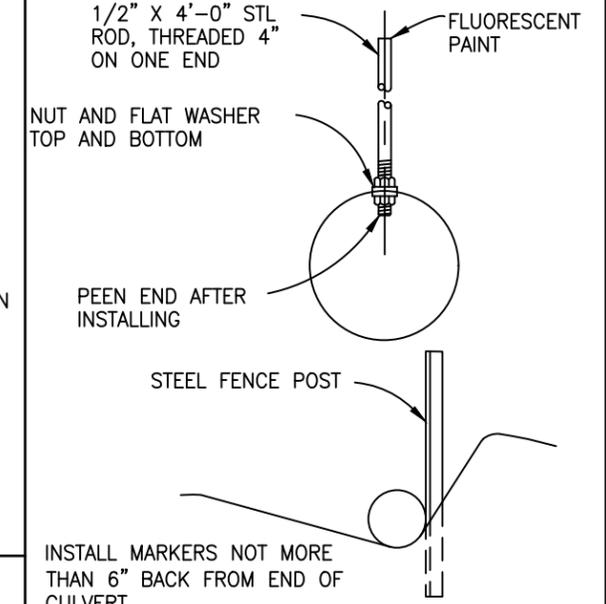


CULVERT INSTALLATION TYPES

BEDDING OF CULVERTS



SKIEW DIAGRAM



CULVERT MARKER INSTALLATION



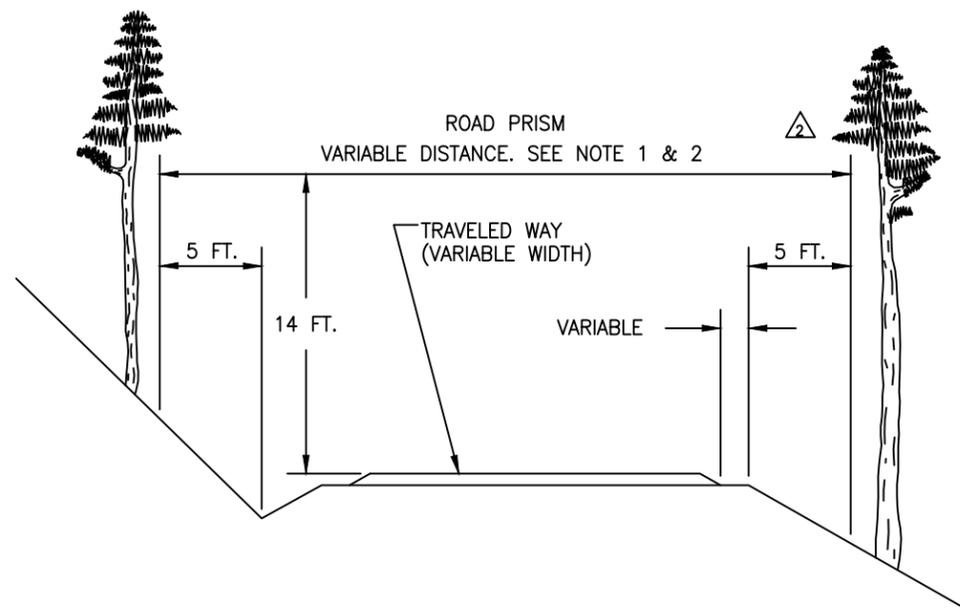
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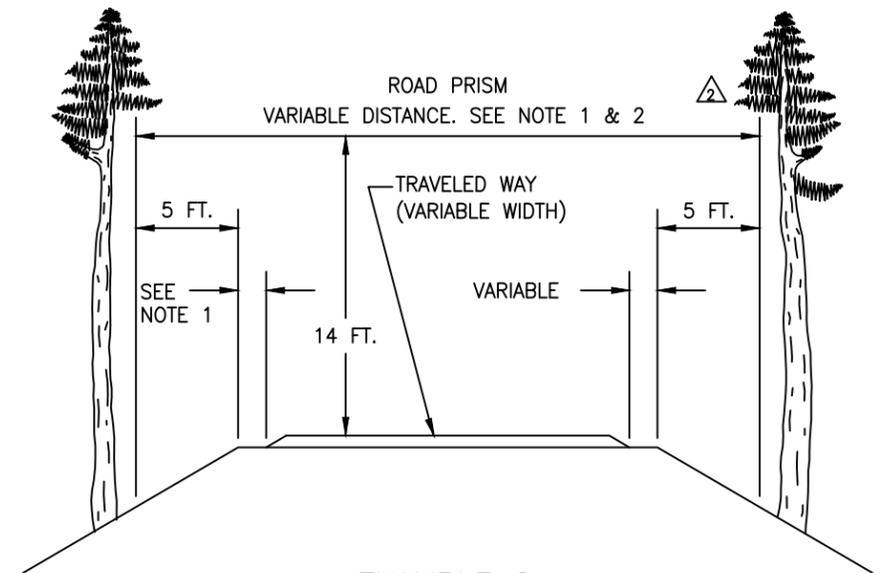
CULVERT INSTALLATION

NOTE:

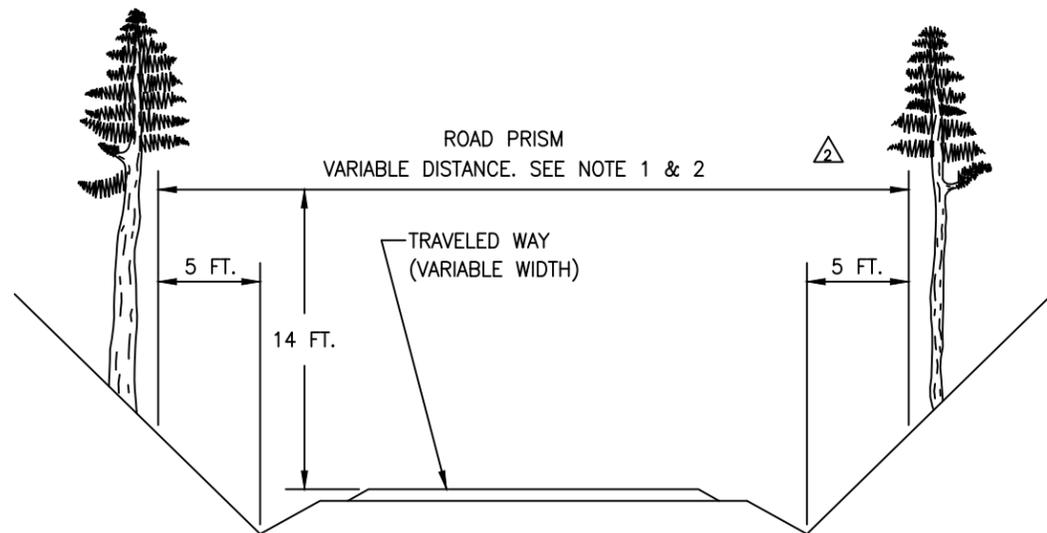
1. ALL AREAS WITHIN THE VARIABLE DISTANCE SHALL BE CLEARED OF VEGETATION.
2. ALL AREAS WITHIN THE VARIABLE DISTANCE SHALL BE FREE OF ALL OVERHANGING LIMBS AND BRANCHES WITHIN 14 FEET ELEVATION ABOVE RUNNING SURFACE. 



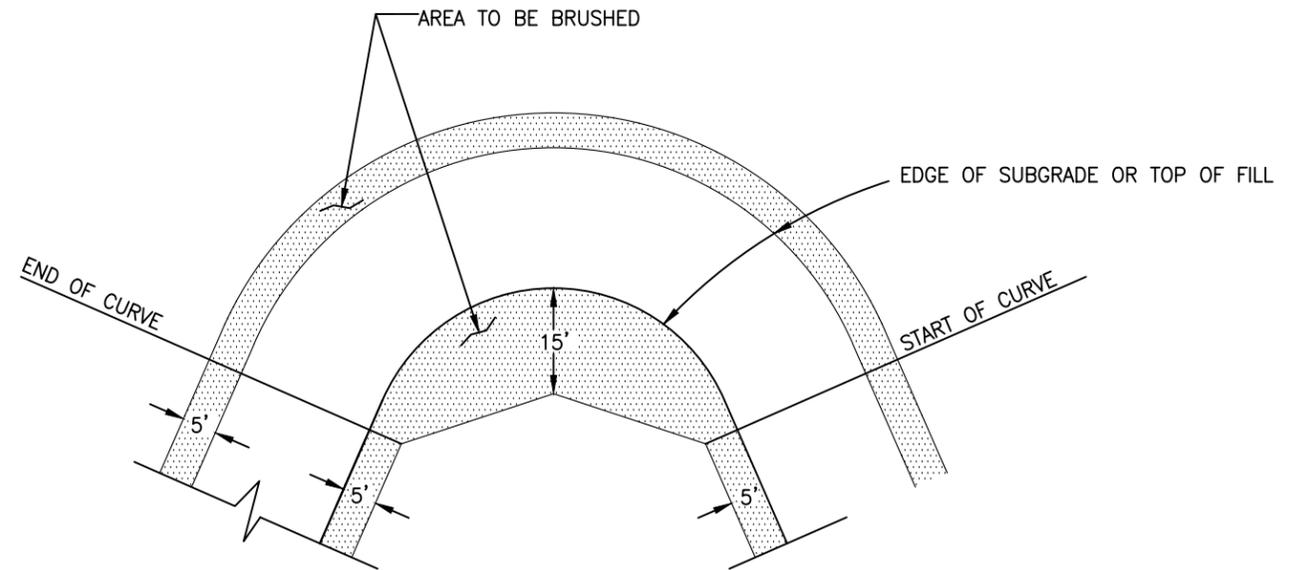
EXAMPLE 1



EXAMPLE 2



EXAMPLE 3



CURVE

ALWAYS
THINK
SAFETY

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BRUSHING DETAIL

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