PROSPECTUS

LUMP SUM SALE
SBA SET-ASIDE
Sale Date: December 15, 2026

(2) Roseburg Sale No.: 2027.0003 **Sale Name:** Cavitt Crumbs
Douglas County, Oregon: O&C, PD: Oral Auction **Bid Deposit Required:** $11,600.00

All timber designated for cutting on:

NE¼SW¼, W½SW¼, N½SE¼	Sec. 27,	T. 27 S.,	R. 3 W.,	Willamette Meridian
W½NE¼, SE¼NE¼, SE¼NW¼, NE¼SW¼, W½SE¼	Sec. 35,	T. 27 S.,	R. 3 W.,	Willamette Meridian
Lot 2	Sec. 2,	T. 28 S.,	R. 3 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
8,553	1394	Douglas-fir	1,709	**$63.90**	*	$109,205.10
342	75	Grand Fir	94	**$44.00**	*	$4,136.00
221	10	Incense-cedar	12	**$41.70**	*	$500.40
10	4	Sugar Pine	5	**$33.20**	*	$166.00
48	3	Western Redcedar	4	**$73.20**	**	$292.80
23	2	Western Hemlock	3	**$36.40**	*	$109.20
9,197	**1,488**		**1,827**			**$114,409.50**

*Minimum Stumpage Values were used to compute the Appraised Price/MBF (10% of Pond Value**)**
** Surplus species stumpage has been reduced to compensate for species stumpage below minimum price policy (10% of Pond Value)

Product	Unit of Measure	Estimated Number of Units	Appraised Price Per Green Ton	Estimated Units Times Appraised Price
Biomass	Green Tons	**328**	**$3.00**	**$984.00**

Total Appraised Value:	**$115,393.50**

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 actual purchase price.

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, Grand-fir, and Incense-cedar have 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. 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 14.0 inches D.B.H.O.B., the average log contains 51 bd. ft., the total gross volume is approximately 2,038 MBF and 90% recovery is expected.

CUTTING AREA: An area of approximately 12 acres distributed throughout 1 unit will be regeneration harvested, an area of approximately 68 acres distributed throughout 4 units will be thinned, and rights-of-ways totaling approximately 2 acres will be clearcut.

TIMBER ACREAGE:

Area 1: 24 acres	Area 3: 23 acres	Area 5: 11 acres
Area 2: 12 acres	Area 4: 10 acres	R/W: 2 acres

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

DIRECTIONS TO SALE AREA: From Roseburg proceed east on OR-138 approximately 16.2 miles, turn right onto Little River Road for approximately 7.4 miles. Turn right onto Newbridge Road and follow road for approximately 2.7 miles towards Forest Service Road 25. Follow Exhibit D to the sale area.

ROAD MAINTENANCE: Rockwear fees of $2,514.68 will be required to be paid to the BLM; rockwear and maintenance fees of $1,959.09 will be required to be paid to Seneca Jones Timber Company.

ROAD CONSTRUCTION: Estimates include the following: renovate 214+40 stations of road, construct 29+30 stations of road, waterbar and block 22+70 stations of road, subsoil 3+50 stations of road, and block 2+90 stations of road. Approximately 123 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 **24 months** for cutting and removal of timber. The contract will contain SPECIAL PROVISIONS regarding: logging; road construction, maintenance, and use; environmental protection; administrative check scaling, fire prevention and control; slash disposal and site preparation; snag creation; buyout securities; log branding and painting; and SBA set aside regulations.

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. Seasonal restrictions apply to this sale regarding logging operations, use of native surfaced roads and road work. Refer to Sections 44(A)(6)(b), 44(A)(10), 44(A)(11), 44(A)(12), 44(A)(13), 44(B)(2), 44(C)(3)(c), and 44(C)(4)(d) for details. A "seasonal restriction matrix" is included with this prospectus to serve as a guide in planning and scheduling operations.

2. A license agreement with Seneca Jones Timber Company is required. The terms and conditions of the license agreement are available for inspection at the Roseburg District Office.

3. Slash disposal requirements consist of the following: machine piling, covering and burning slash and debris within a fifty (50) foot radius of landings. The Purchaser will have the option to assist in burning or to make a buyout security deposit to the Bureau of Land Management in lieu thereof. Refer to Sections 44(F) and 44(H)(1) for details.

4. Girdling (or felling) of approximately 534 trees in the Harvest Land Base to create snags (or down woody material) after completion of logging operations will be required. The Purchaser will have the option to complete the required snag creation work or to make buyout security deposit to the Bureau of Land Management in lieu thereof. Refer to sections 44(G) and 44(H)(2) for details.

5. 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 91 MBF of such additional timber would be removed under the contract but is not included in the advertised sale volume. Refer to Sections 44(A)(8) and 44(A)(9) for details.

   In addition, this contract contains provisions for the protection and retention of trees that are greater than or equal to 40 inches DBH and that were established prior to 1850; trees meeting these criteria may be cut, if necessary for safety or operational reasons, but they will be retained as the property of the government and will not be sold or otherwise removed from the contract area. Refer to Sections 43(e), 44(A)(8)(b), 44(A)(9)(a), and 44(A)(9)(e)(3) for details.

6. As appraised, approximately 52% of the sale area is available for wet season operations, including portions of Harvest Areas 1, 3, 4, and 5 (43 acres). Wet season operations may be maximized at the Purchaser's expense by:
   - Cable yarding portions of Harvest Areas 3, 4, and 5 to the existing rocked roads approved for wet season operations, instead of ground-based yarding (approximately 4 additional acres).
   - Adding rock to Road 27-3-27C and constructing and rocking Road 27-3-26.3 in Harvest Area 2 for wet season cable yarding, instead of ground-based yarding (approximately 10 additional acres)
   - Adding rock to Road 27-3-27.2 in Harvest Area 1 for wet season cable yarding, instead of dry season cable yarding (approximately 3 additional acres)

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

7. At the Purchaser's request, portions of the sale area with slopes less than 60 percent could be operated with tether-assist mechanized equipment instead of cable yarding. In order to utilize tethered equipment on the sale area, 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 43. 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 orange paint above and below stump height within the cutting areas and all orange painted and posted trees which are on or mark the boundaries of the Reserve Areas, as shown on Exhibit A.

(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.

(e) All trees in the Harvest Areas shown on Exhibit A that are greater than or equal to (≥) forty (40) inches diameter at breast height (DBH) and that were established prior to 1850, as determined by the Authorized Officer. Exhibit E, which is attached hereto and made apart hereof, shows the approximate location of qualifying pre-1850 trees.

Section 44. 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 44(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 yarding, skidding or loading is permitted in or through the Reserve Areas or retention aggregates as shown on Exhibit A, unless otherwise approved by the Authorized Officer, except in portions of Harvest Areas 3 and 4.

(5) In the Harvest Areas shown on Exhibit A, all trees designated for cutting shall be manually felled, unless otherwise approved by the Authorized Officer. Portions of Harvest Areas 1, 2, 3, 4, and 5 may be felled mechanically using a feller-processor or feller-buncher 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 44(A)(6)(b) of this contract.

   (c) The feller-processor or feller-buncher shall be approved by the Authorized Officer prior to the start of mechanized felling operations. Only purpose-built carriers with boom-mounted felling heads may be approved. The 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 may be felled and whole tree yarded except when excessive stand damage occurs as determined by the Authorized Officer. If excessive stand damage occurs, all trees 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, 4, and 5, designated for ground-based yarding as shown on Exhibit A (approximately 32 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, and 5 designated for cable yarding as shown on Exhibit A (approximately 48 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, except in portions of Harvest Area 3 where full suspension over streams is required.

(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 shall take all reasonable measures to limit the need for cutting any tree that is greater than or equal to (≥) forty (40) inches DBH **and** that was established prior to 1850, as determined by the Authorized Officer. The approximate locations of qualifying pre-1850 trees are shown on Exhibit E. Where cutting such trees is necessary for safety or operational reasons, as determined by the Authorized Officer, the Purchaser may immediately cut, but shall not remove, the trees when the trees have been marked with yellow paint above and below stump height by the Authorized Officer and thereby approved for cutting but not removal by the Authorized Officer.

(c) 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.

(d) 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 43 of the contract or any tree that exceeds Forty (40) 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.

(e) 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.

(f) 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.

(g) The Government may reserve trees previously designated for cutting and removal by applying orange paint as replacements for additional trees cut and removed for skid trails and/or cable yarding corridors when the Authorized Officer determines such reservation is necessary to maintain stand densities consistent with objectives set forth in the management prescription(s). This may include the replacement of trees damaged by storm events, or insects or disease. The volume of this timber to be reserved will be determined by the Authorized Officer in accordance with Bureau of Land Management prescribed procedures and the value shall be based on the unit prices shown in Exhibit B of the contract. The Purchaser agrees that the Total Purchase Price shall be reduced accordingly through a unilateral modification to the contract executed by the Contracting Officer.

(9) In accordance with the requirements of Section 8, it has been determined that the sale of additional timber located in the Contract Area, as shown on Exhibit A, 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 is needed to meet all applicable State safety laws, codes or regulations. This timber must be cut or removed so that the Purchaser can continue active falling 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 that:

(a) Trees that are greater than or equal to (≥) forty (40) inches DBH **and** that were established prior to 1850, as determined by the Authorized Officer, 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 value 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 through a unilateral modification executed by the Contracting Officer.

(d) No timber may be cut or removed under the terms of this provision until all contract payments required by Section 3(b) or 3(f) of the contract have been made.

(e) The permission to cut and remove additional timber contained in this provision may be withdrawn by the Contracting Officer if the Authorized Officer determines that the Purchaser:

(1) Failed to properly mark any stump as designated in this provision.
(2) Failed to identify the location of any stump.
(3) Cut any tree that was greater than or equal to (≥) forty (40) inches DBH **and** that was established prior to 1850.
(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 in Harvest Areas 1, 3, 4 and 5 as shown on Exhibit A, 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) For portions of Harvest Area 4, as shown on Exhibit F, which is attached hereto and made a part hereof, no operations except hauling may be conducted from March 1 to August 31, both days inclusive, of each calendar year due to the potential disruption of Peregrine Falcons. Dependent upon Peregrine Falcon activity, the Authorized Officer may lift the seasonal restriction in any given year on such operations in writing.

(13) For portions of Road 27-3-35.4, as shown on Exhibit G, which is attached hereto and made a part hereof, no operations except hauling may be conducted from February 15 to July 31, both days inclusive, of each calendar year due to the potential disruption of Great Blue Herons. Dependent upon Great Blue Heron activity, the Authorized Officer may lift the seasonal restriction in any given year on such operations in writing.

(14) 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 44(B) Road Construction, Maintenance & Use:

(1) Purchaser shall construct: Road 27-3-27B; Road 27-3-27C; Road 27-3-27.2 Segment A (Por.); Road 27-3-35A; Road 27-3-35.9. Purchaser shall renovate: Road 27-3-26.3 Segments A1, A2, A3, and A4; Road 27-3-26.4 Segments A1(Por.) and A2; Road 27-3-27.2 Segment A (Por.); Road 27-3-35.1 Segments A1 and A2; Road 27-3-35.4 Segment A (Por.); Road 27-3-35F Segment A. Any required construction, renovation or improvement 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 and accepted, in accordance with Section 18, prior to the removal of any timber, except right-of-way timber, over that road.

(2) No road construction or renovation shall be conducted 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 shall be waterbarred, blocked and or subsoiled in strict accordance with the plans and specifications shown on Exhibit D, which is attached hereto and made a part hereof: Road 27-3-27.2; Road 27-3-27B; Road 27-3-27C; Road 27-3-35A; and Road 27-3-35F.

(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 44(B)(5). Any road listed on Exhibit D and requiring improvement, renovation, or improvement 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 obligation in the amount of Two Thousand Five Hundred Fourteen and 68/100 ($2,514.68) for the transportation of timber included in the contract price over roads listed on the Exhibit D. The above rockwear amount is for use of Four and seven tenths (4.7) miles of road or less. Unless the total rockwear 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.

IF OTHER THAN SENECA JONES TIMBER COMPANY PURCHASES:

(8) In the use of Road 27-3-26.5 Segment A, and for the maintenance of FS25 Segments A1 and A2 (Cavitt Creek mainline), 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 R-769, dated July 7, 1964, between the United States of America and Seneca Jones Timber Company, 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 One Thousand Nine Hundred Fifty-nine and 09/100 ($1,959.09).

(c) 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 44(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 44(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 44(A)(11) of this contract, or as directed by the Authorized Officer.

(4) In addition to the requirements set forth in Section 26 of this contract, the Purchaser shall, upon completion of logging operations, perform subsoiling operations on approximately Six-tenths (0.6) miles of landings, main skid trails, and associated compacted areas such as turnouts, truck turnarounds and log decking areas as designated by the Authorized Officer and in accordance with the following stipulations:

(a) All subsoiling equipment shall be inspected and approved by the Authorized Officer before subsoiling begins.

(b) The compacted surfaces shall be subsoiled (broken up, loosened, and de-compacted) using excavator attachments, log loader tongs or other approved equipment.

(c) Slash and other organic debris and some topsoil will be spread over the subsoiled surface to cover at least (50) percent of the subsoiled area, where levels of this material are available. Waterbars shall be constructed concurrently with subsoiling operations on grades steeper than ten (10) percent, as directed by the Authorized Officer.

(d) Subsoiling shall occur during the same dry season as ground-based harvesting as described in Section 44(A)(6)(b), unless otherwise approved by the Authorized Officer.

(e) Subsoiling shall be completed to a minimum depth of eighteen (18) inches below the ground surface, unless otherwise approved by the Authorized Officer.

(f) Treated areas shall span the total width of compaction, as identified by the Authorized Officer. At least eighty (80) percent of the compacted soil profile shall be shattered. No more than fifty (50) percent of the treated soil shall have clods greater than two (2) inches in diameter, unless otherwise approved by the Authorized Officer.

(g) Subsoiling shall not occur within a five foot radius of the boles of residual trees where major roots can be cut, mangled or pulled, unless otherwise directed by the Authorized Officer.

(h) Equipment shall not be allowed to operate on slopes in excess of thirty-five (35) percent or to cross streams or drainages unless approved by the Authorized Officer.

Section 44(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 Three Hundred Seventy and 25/100 dollars ($1,370.25); in the event only a portion of the contract timber is scaled, the purchase price shall be reduced by that portion of One Thousand Three Hundred Seventy and 25/100 dollars ($1,370.25) 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 44(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 44(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.

(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 44(G) Harvest Land Base Snag Creation:

(1) Notwithstanding the provisions of Section 13 of this contract, the Purchaser shall, within one year following the completion of yarding operations, create approximately Five Hundred and Thirty-Four (534) snags as directed by the Authorized Officer and in accordance with the following table and stipulations:

Harvest Area	LUA	Acres	Snags 10" - 20" DBH*	Snags > 20" DBH*	Total Snags
1	HLB	26	78	78	156
2	HLB	13	39	39	78
3	HLB	25	75	75	150
4	HLB	11	33	33	66
5	HLB	14	42	42	84
		Totals:	**267**	**267**	**534**

*If trees are not available in the size class specified, use trees from the largest size class available

(a) Trees used to create snags under this subsection are not included in the volume or the appraised unit prices shown on Exhibit B and shall not be yarded or otherwise removed from the Harvest Land Base (HLB).

(b) The Purchaser shall create snags in a variety of spatial patterns, including aggregated groups and individual trees.

(c) The Purchaser may meet snag creation requirements with trees from any species.

(d) Snags shall generally be located a minimum distance of one and one-half (1½) tree lengths away from power lines, structures, roads that will remain open after logging operations are complete, and/or property lines where BLM managed lands abut non-federal ownership; where it is not possible to meet this requirement, the Purchaser shall fall trees equivalent to the required number of snags and retain the felled trees on site as down woody material.

(e) Snags shall generally be created by girdling live, green trees three (3) to five (5) feet above the root collar; girdling will generally consist of two (2) one-half (½) to three-quarter (¾) circumference girdles spaced vertically one (1) to two (2) feet apart on opposing sides of the tree; the girdling cuts shall completely sever the cambial tissue, without cutting into the sapwood more than one and one-half (1½) inches. In addition to girdling, trees severely damaged through normal logging operations and/or natural disturbance events subsequent to this logging entry may be counted towards the snag creation requirements with the approval of the Authorized Officer—examples would

include, but need not be limited to, intermediate support trees, tail trees, trees pulled over during yarding, recent broken tops or windfalls.

(f) The Purchaser shall number each snag created; the number shall be painted on the bole of the snag using high visibility paint such that the number is visible from at least one hundred (100) feet away. The Purchaser shall depict the number and location of snags on a legible map along with a tally by diameter which shall be submitted to the Authorized Officer to facilitate inspection.

(g) In addition to the requirements described herein, for the Harvest Land Base (HLB) portion of thinning Harvest Areas 1, 3, 4 and 5 snags shall be created primarily within the Harvest Area boundaries using dispersed retention trees. As necessary to meet the requirements described above, the Purchaser may also create snags in the Retention Aggregates adjacent to Harvest Areas 1, 3, 4 and 5 as shown on Exhibit A.

(h) In addition to the requirements described herein, for the Harvest Land Base (HLB) portion of regeneration Harvest Area 2, snags shall be created primarily in the Retention Aggregates, as shown on Exhibit A, which are flagged in fluorescent orange and green ribbon. As necessary to meet the requirements described above, the Purchaser may also create snags within the Harvest Area boundaries using dispersed retention trees.

Section 44(H) Buyout Securities:

(1) The Purchaser shall assist in burning as described in Section 44(F)(2). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a buyout security deposit to the Bureau of Land Management in the amount of Five Thousand Six Hundred Ninety-Eight and 46/100 dollars ($5,698.46), and upon making such deposit, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

(2) The Purchaser shall complete the snag creation work as described in Section 44(G)(1). The Purchaser shall have the option of completing this work, or in lieu thereof, may make a buyout security deposit to the Bureau of Land Management in the amount of Eleven Thousand Five Hundred Sixty-Eight and 11/100 dollars ($11,568.11) and upon making such deposit, the Purchaser shall be relieved of the obligations set out in this subsection. The Purchaser shall notify the Authorized Officer of their intention to make this deposit prior to the date of execution of this contract, and the Purchaser shall pay such amount in full prior to the commencement of operations.

Section 44(I) Log Branding and Painting:

(1) Unless otherwise authorized in writing by the Contracting Officer, the Purchaser shall brand clearly and legibly one end of all logs with a scaling diameter (small end inside bark) of over ten (10) inches, prior to the removal of timber from the contract area. All loads of eleven (11) logs or more will have a minimum of ten (10) logs clearly and legibly branded on one end

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

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

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

Section 44(J) 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.

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 Restriction	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Harvest Area	**Activity**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**
Unit 1 *(thin)*	Right-of-way logging and clearing, road construction, renovation[1]																								
	Hand falling and bucking[3]																								
	Mechanized falling and bucking[2,3]																								
	Ground-based yarding[2, 3]																								
	Cable yarding on rocked roads[3]																								
	Cable yarding on dirt roads[1, 3]																								
	Loading or hauling on rocked roads																								
	Loading or hauling on dirt roads[1]																								
Unit 2 *(regen)*	Right-of-way logging and clearing, road construction, renovation,																								
	Hand falling and bucking[3]																								
	Mechanized falling and bucking[2]																								
	Ground-based yarding[2]																								
	Loading or hauling on rocked roads																								
	Loading or hauling on dirt roads[1]																								

[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] Wet season restriction applying to ground-based operations from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions.
[3] Bark slip restriction from April 15 – July 15 may be conditionally waived

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 Restriction	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
Harvest Area	**Activity**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**	**1**	**15**
Unit 3 *(thin)*	Right-of-way logging and clearing, road renovation[1]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Hand falling and bucking[3]								■	■	■	■	■	■											
	Mechanized falling and bucking[2, 3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Ground-based yarding[2,3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Cable yarding on rocked roads[3]								■	■	■	■	■	■											
	Loading or hauling on rocked roads																								
Unit 4 *(thin)*	Right-of-way logging and clearing, road construction, renovation[1]	■	■	■	■	■	■	■	■	■											■	■	■	■	■
	Hand falling and bucking[3]								■	■	■	■	■	■											
	Mechanized falling and bucking[2, 3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Ground-based yarding[2,3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Cable yarding on rocked roads[3]								■	■	■	■	■	■											
	Loading or hauling on rocked roads																								
	Logging operations within Peregrine Falcon area as shown on Exhibit F[4]					■	■	■	■	■	■	■	■	■	■	■	■								
Unit 5 *(thin)*	Right-of-way logging and clearing, road construction, renovation[1, 5]	■	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■
	Hand falling and bucking[3]								■	■	■	■	■	■											
	Mechanized falling and bucking[2, 3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Ground-based yarding[2,3]	■	■	■	■	■	■	■	■	■	■	■	■	■						■	■	■	■	■	■
	Cable yarding on rocked roads[3]								■	■	■	■	■	■											
	Loading or hauling on rocked roads																								

[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] Wet season restriction applying to ground-based operations from October 1 – July 15 may be shortened or extended depending on soil moisture and weather conditions.
[3] Bark slip restriction from April 15 – July 15 may be conditionally waived
[4] Peregrine Falcon seasonal restriction from March 1st – August 31st may be conditionally waived depending on falcon activity, see Exhibit F map for affected location
[5] Great Blue Heron seasonal restriction from February 15th – July 31th may be conditionally waived depending on heron activity, see Exhibit G map for affected location.

Form 5440-009
(April 2025)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Name of Bidder

Tract Number (2) 2027.0003

Sale Name Cavitt Crumbs

Sale Notice *(dated)* 11/17/2026

BLM Office Roseburg District

DEPOSIT AND BID FOR: (Check One):

☒ **Timber and/or Other Wood Products**
(Examples of Other Wood Products: biomass, firewood, posts, poles, etc…)

☐ **Vegetative Resources**
(Examples of Vegetative Resources: boughs, pinyon nuts, cones, plants, etc…)

☐ Sealed Bid for Sealed Bid Sale

Deadline for accepting sealed bids ☐ a.m. ☐ p.m.

On *(date)* Place

☒ Written Bid for Oral Auction Sale

Sale commences 10:00 ☒ a.m. ☐ p.m.

On 12/15/2026 Place 777 NW Garden Valley Blvd.

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

Required bid deposit is $ 11,600.00 and is enclosed in the form of:

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

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

IT IS AGREED That the bid deposit shall be retained by the United States as liquidated damages if the bid is accepted and the undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. If not otherwise specified in the advertisement, bids for less than the advertised price will not be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE – **TIMBER AND/OR OTHER WOOD PRODUCTS OR VEGETATIVE RESOURCES**
NOTE: Bidders should carefully check computations in completing the Bid Schedule

BID SUBMITTED					ORAL BID MADE	
PRODUCT & SPECIES	UNIT of MEASURE	ESTIMATED VOLUME OR QUANTITY	UNIT PRICE	PRODUCT VALUE (Quantity X Price)	UNIT PRICE	PRODUCT VALUE (Quantity X Price)
Douglas-fir	MBF	1,709	$	$	$	= $
Grand Fir	MBF	94	$ 44.00	$ 4,136.00	$	= $
Incense-cedar	MBF	12	$ 41.70	$ 500.40	$	= $
Sugar Pine	MBF	5	$ 33.20	$ 166.00	$	= $
Western Redcedar	MBF	4	$ 73.20	$ 292.80	$	= $
Western Hemlock	MBF	3	$ 36.40	$ 109.20	$	= $
Biomass	G Tons	328	$ 3.00	$ 984.00	$	= $
			TOTAL PURCHASE PRICE	$		$

(Continued on Page 2)

If sale contract is executed, undersigned is liable for total purchase price including all modifications executed under the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than total estimated volume or quantity shown above.

Bid submitted on *(date)*

By signing this form, the signatory is certifying the following:

☐ *(a) The signatory is a citizen of the United States, a partnership composed wholly of such citizens, an unincorporated association composed wholly of such citizens, or a corporation authorized to transact business in the state in which the timber is located.*

☐ *(b) The signatory is the age of majority in the state of the sale.*

☐ *(c) The signatory is an authorized representative if not signing as an individual and certifies that he or she is authorized to act as or on behalf of the bidder.*

☐ *(d) The signatory and any affiliates have not exported unprocessed private timber from west of the 100th meridian in the lower 48 states in the 24-months prior to the sale date shown on this form.*

☐ *(e) The signatory's bid was arrived at by bidder or offeror independently and was tendered without collusion with any other bidder or offeror.*

☐ *(f) The signatory and any affiliates are not currently suspended or debarred from contracting with the Federal government unless issued an exception by the Department's Director of the Office of Acquisition and Property Management (exception must be attached to bid form).*

Mark each box above to acknowledge each of the certifying statements and complete sections 1-3 as appropriate and sections 4 and 5:

1. Signature, if firm is individually owned	4. Name of firm *(type or print)*
2. Signatures, if firm is a partnership or L.L.C. i. _____ ii. _____	5. Business address, include zip code *(type or print)*
3. Corporation - organized under the state laws of: Signature of Authorized Corporate Officer: _____ Title: _____	*(To be completed following oral bidding)* I HEREBY confirm the above oral bid By *(signature):* Date

Submit bid to qualify for either an oral auction or sealed bid sale, together with the required bid deposit.
Make remittance payable to: "Department of the Interior – BLM"

Oral Auction – Submit to Sale Supervisor prior to closing of qualifying period for tract.
Sealed Bid – Send to Contracting Officer, who issued the sale notice, in a sealed envelope marked on the outside with:
(1) "Bid for Timber and/or Other Wood Products" or "Bid for Vegetative Resources" depending on the products being sold.
(2) Time bids are to be opened.
(3) Legal description.
(4) Sale name and number.

NOTICES

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

AUTHORITY: 38 FR 6280 and 43 CFR 5442.1

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

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

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

(Continued on Page 3)

INSTRUCTIONS TO BIDDERS

1. AUTHORITY – Timber and/or Other Wood Products or Vegetative Resources, located on the revested Oregon and California Railroad Grant Lands and on the reconveyed Coos Bay Wagon Road Grant Lands is administered and sold pursuant to authority of the Act of August 28, 1937 (50 Stat. 874; 43 U.S.C. 2601); Timber and/or Other Wood Products or Vegetative Resources located on other public lands of the United States under jurisdiction of the Bureau of Land Management are administered and sold pursuant to authority of the Act of July 31, 1947 (61 Stat. 681), as amended, by the Act of July 23, 1955 (69 Stat. 367; 30 U.S.C. 601 et. seq.). Regulations of the Secretary of the Interior governing sale of Timber and/or Other Wood Products or Vegetative Resources, are codified in 43 CFR Group 5400.

2. QUALIFICATIONS OF BIDDERS – A bidder for sale of Timber and/or Other Wood Products or Vegetative Resources must be either (a) a citizen of the United States, (b) a partnership composed wholly of such citizens, (c) an unincorporated association composed wholly of such citizens, or (d) a corporation authorized to transact business in the state in which the Timber and/or Other Wood Products or Vegetative Resources are located.

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

4. DISCLAIMER OF WARRANTY – Government expressly disclaims any warranty of the fitness of the designated Timber and/or Other Wood Products or Vegetative Resources for any purpose of the bidder; all Timber and/or Other Wood Products or Vegetative Resources are to be sold "As Is" without any warranty of merchantability by Government. Any warranty as to the quantity or quality of Timber and/or Other Wood Products or Vegetative Resources to be sold is expressly disclaimed by Government.

5. BIDS – Each Sealed or written bid for Timber and/or Other Wood Products or Vegetative Resources must be submitted to the Contracting Officer who issued *Timber and/or Other Wood Products or Vegetative Resources Sale Notice.*

(a) *Sealed Bid Sales* – Bids will be received until time specified in the Advertisement. Enclose the bid with required bid deposit in a sealed envelope marked on the outside *Bid for Timber and/or Other Wood Products or Vegetative Resources*, time bid is to be opened, timber sale name and number, and legal description of land on which Timber and/or Other Wood Products or Vegetative Resources are located. In event of a tie, the high bidder shall be determined by lot from among those who submitted the tie bids.

(b) *Oral 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/her 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/her bid, in writing, immediately upon being declared high bidder.

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

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

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

(a) *Timber and/or Other Wood Products or Vegetative Resources Sales* – For each product and species, bids shall specify (1) Bureau of Land Management estimated unit volume or quantity, (2) bidder's price per unit and total value, and (3) bidder's total purchase price. Estimated volume and price per unit are to be used for administrative and appraisal purposes only. Upon award of contract, the high bidder agrees to pay the Government for the Timber and/or Other Wood Products or Vegetative Resources designated for removal in accordance with the terms of the contract. Timber and/or Other Wood Products or Vegetative Resources designated for removal may be less or more than the total estimated volume or quantity shown above.

7. BID DEPOSIT – All bidders must make a deposit of not less than the amount specified in the *Timber and/or Other Wood Products or Vegetative Resources Notice*. Deposit may be in the form of cash, money orders, bank drafts, cashiers or certified checks made payable to the Department of the Interior – BLM, bid bonds of a corporate surety shown on the approved list of the United States Treasury Department (*Applies To Timber Only*), or any approved guaranteed remittance approved by the Contracting Officer. Upon conclusion of bidding, the bid deposit of all bidders, except high bidder, will be returned. The cash deposit of the successful bidder shall be applied toward the required sale deposit and/or the purchase price. If the BLM fails to award the timber sale within 90 days of the determination of the high bidder, a portion of the bid deposit may be refunded to the high bidder upon written request to the authorized officer, such that the BLM retains a deposit of at least 5% of the appraised value. The remainder of the full bid deposit must be resubmitted to the BLM once the high bidder is notified in writing that the delay of award has been remedied and the authorized officer is prepared to issue the contract. If the high bidder is unable to provide the full amount of the bid deposit within 30 days of the written notification, the sale may be re-auctioned and the high bidder will be barred from participating in any subsequent auctions for the same tracts.

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/she 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. If contract award is delayed more than 90 days, half of the bid deposit may be refunded to the high bidder until the sale award process resumes.

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

(Continued on Page 4)

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

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

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

11. PAYMENT BOND – (Primarily Used For Timber Sales)

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

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

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

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

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

16. [RESERVED]

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 any exporters of unprocessed private timber west of the 100th meridian in the contiguous 48 states within 24-months of the sale date are not eligible to purchaser Federal Timber west of the 100th meridian in the contiguous 48 states. For the purpose of this contract, unprocessed timber is defined as:

(1) any logs except those of utility grade or below, such as saw logs, peeler logs, and pulp logs; (2) cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better.

Timber manufactured into the following will be considered processed: (1) Lumber or construction timbers, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list grades, sawn on four sides, not intended for remanufacture; (2) Lumber, construction timbers, or cants for remanufacture, except western red cedar, meeting current American Lumber Standards Grades or Pacific Lumber Inspection Bureau Export R or N list clear grades, sawn on four sides, not to exceed twelve inches in thickness; (3) Lumber, construction timbers, or cants for remanufacture, except western red cedar, that do not meet the grades referred to in subclause 2 and are sawn on four sides, with wane less than ¼ of any face, not exceeding 8¾ inches in thickness; (4) Chips, pulp, or pulp products; (5) Veneer or plywood; (6) Poles, posts, or piling cut or treated with preservatives for use as such; (7) Shakes or shingles; (8) Aspen or other pulpwood bolts, not exceeding 100 inches in length, exported for processing into pulp; (9) Pulp logs, cull logs, and incidental volumes of grade 3 and 4 saw logs processed at domestic pulp mills, domestic chip plants, or other domestic operations for the primary purpose of conversion of the logs into chips, or to the extent that a small quantity of such logs are processed, into other products at domestic processing facilities.

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

Township 27 South, Range 3 West, Sections 27 and 35 Willamette Meridian
Township 28 South, Range 3 West, Section 2 Willamette Meridian

Harvest Area	Thinning Acres	Total Regeneration Acres	Total Harvest Acres	Harvest Method
1	24	0	24	Cable/Ground
2	0	12	12	Ground
3	23	0	23	Cable/Ground
4	10	0	10	Cable/Ground
5	11	0	11	Cable/Ground
Totals	**68**	**12**	**80**	

THINNING HARVEST AREA	68 Acres
REGENERATION HARVEST AREA	12 Acres
RIGHT-OF-WAY (CLEARING)	2 Acres
TOTAL HARVEST AREA	82 Acres
RESERVE AREA	437.97 Acres
TOTAL CONTRACT AREA	519.97 Acres

1. Harvest Area boundaries are posted with tags that read "Boundary of Timber Reserve" and boundary trees are blazed and painted orange. Trees marked with orange blazes to delineate the boundaries of the Harvest Areas and trees marked with orange paint within the Harvest Areas are reserved by the government.

2. Property lines are posted with orange and white tags that read “Timber Cutting Boundary”.

3. Clearing limits on road rights-of-ways within the Harvest Areas are posted with fluorescent paper flasher tags; trees marked with yellow paint within the clearing limits may be cut but not removed. Clearing limits on road rights-of-ways outside the Harvest Areas on BLM managed lands are posted with tags that read “Right-of-Way”, and trees are blazed and painted orange; trees marked with orange blazes to delineate clearing limits outside the harvest areas are reserved by the government. Clearing limits on road rights-of-ways over private property are posted with tags that read “Right-of-Way.”

4. Ground-based yarding is limited to dry season operations and slopes 35% or less within the ground-based area shown on Exhibit A, approximately 32 acres.

5. Retention aggregates for Unit 2, shown on Exhibit A, are flagged with fluorescent orange and green ribbon.

Bureau of Land Management

EXHIBIT A

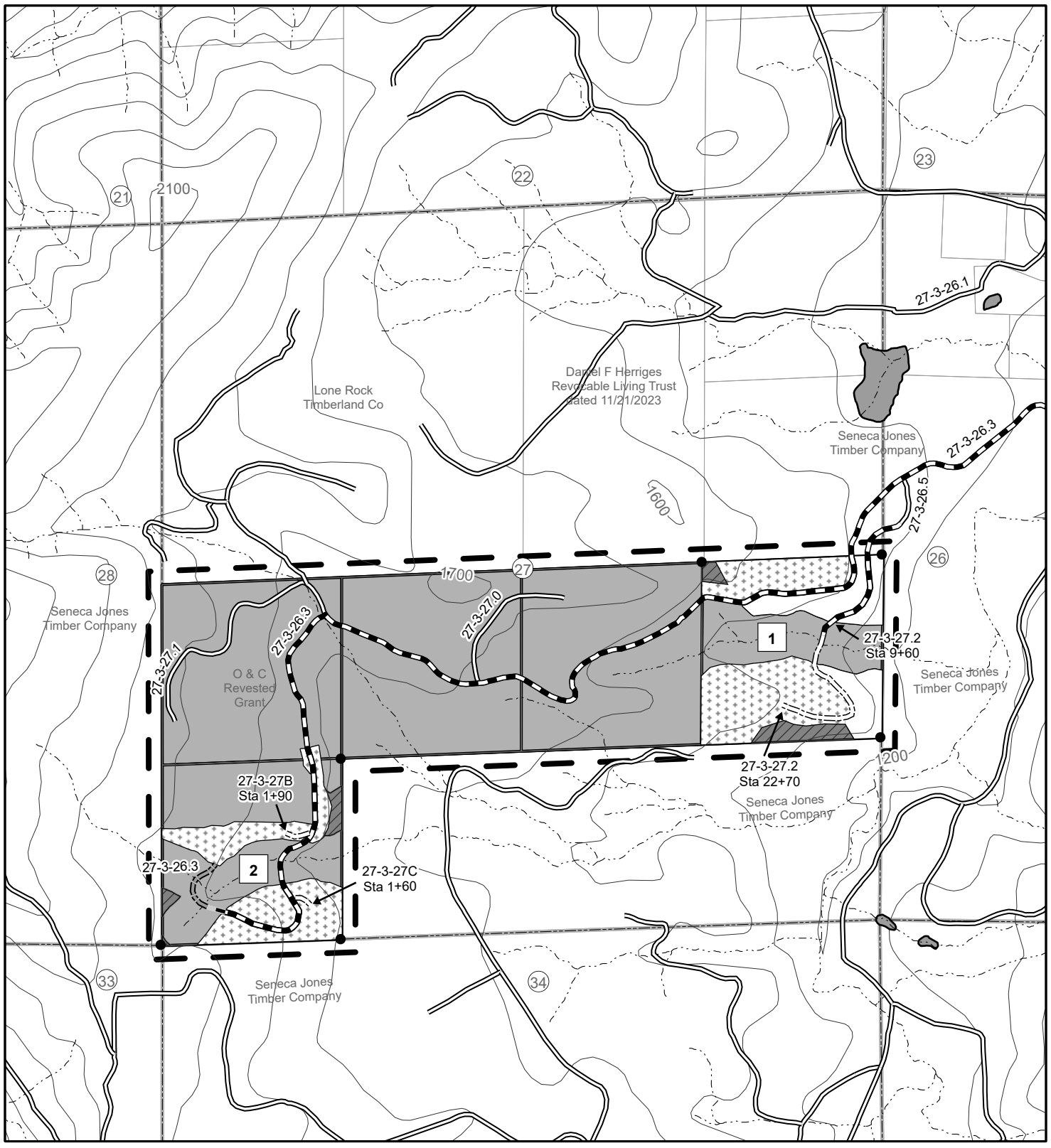
Sheet 2 of 3

Cavitt Crumbs

Contract # ORR04-TS-2027.0003

R 3 W

T 27 S



- Survey Corner
- Stream
- Existing Road
- Road Construction
- Optional Road Construction
- Road Renovation
- Optional Road Renovation
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area

Scale: 1:12,000

1 inch = 1,000 feet

0 500 1,000 1,500 Feet

N

Date: 10/14/2026

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.

Bureau of Land Management

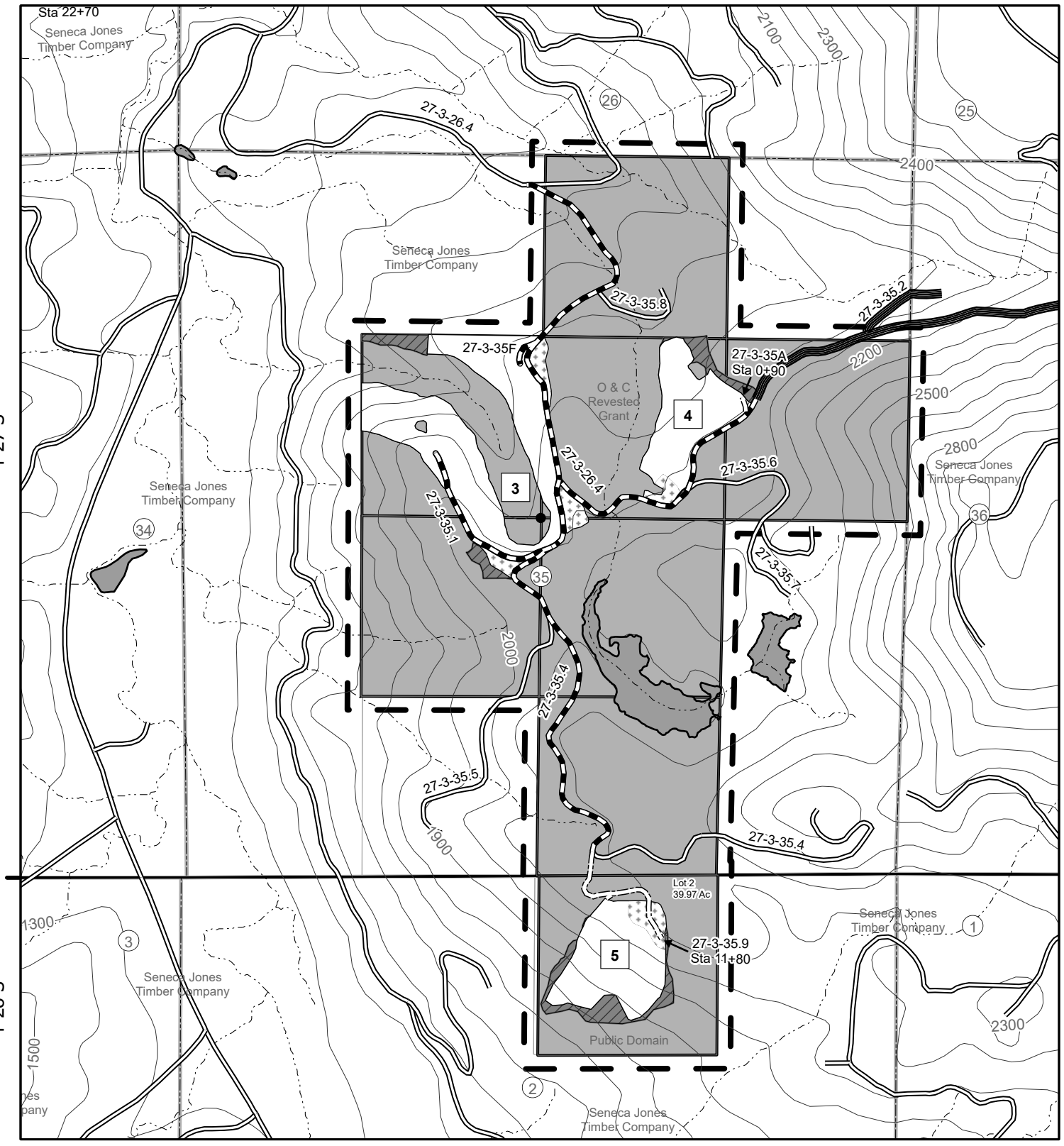
EXHIBIT A

Sheet 3 of 3

Cavitt Crumbs

Contract # ORR04-TS-2027.0003

R 3 W



- Survey Corner
- Stream
- Existing Road
- Road Construction
- Road Renovation
- Undrivable Road
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area

Scale: 1:12,000

1 inch = 1,000 feet

0 500 1,000 1,500 Feet

N

Date: 10/14/2026

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.

Form 5450-003a

(February 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-003

Contract No.

ORR04-TS-2027.0003

Cavitt Crumbs

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 *(Units Specified)*		PRICE PER UNIT	ESTIMATED VOLUME OR QUANTITY X UNIT PRICE
Douglas Fir	1,709.0	MBF	$63.90	$109,205.10
Grandfir	94.0	MBF	$44.00	$4,136.00
Incense-cedar	12.0	MBF	$41.70	$500.40
Sugar Pine	5.0	MBF	$33.20	$166.00
Western Redcedar	4.0	MBF	$73.20	$292.80
Western Hemlock	3.0	MBF	$36.40	$109.20
Mixed Species	328.0	GTON	$3.00	$984.00
TOTALS	1,827.0 MBF, 328.0 GTON			$115,393.50

The apportionment of the total purchase price is as follows:

Unit 1

Douglas Fir	398.0	MBF	X	$63.90	=	$25,432.20
Incense-cedar	2.0	MBF	X	$41.70	=	$83.40
Western Hemlock	1.0	MBF	X	$36.40	=	$36.40
Grandfir	20.0	MBF	X	$44.00	=	$880.00
Mixed Species	64.0	GTON	X	$3.00	=	$192.00
Total	421.0 Mbf, 64.0 Gton					$26,624.00 ÷ 24.0 acres = $1,109.33/Acre

Unit 2

Mixed Species	65.0	GTON	X	$3.00	=	$195.00
Douglas Fir	343.0	MBF	X	$63.90	=	$21,917.70
Incense-cedar	1.0	MBF	X	$41.70	=	$41.70
Grandfir	22.0	MBF	X	$44.00	=	$968.00
Sugar Pine	5.0	MBF	X	$33.20	=	$166.00
Total	371.0 Mbf, 65.0 Gton					$23,288.40 ÷ 12.0 acres = $1,940.70/Acre

Unit 3

Douglas Fir	390.0	MBF	X	$63.90	=	$24,921.00
Incense-cedar	4.0	MBF	X	$41.70	=	$166.80
Western Redcedar	2.0	MBF	X	$73.20	=	$146.40
Western Hemlock	1.0	MBF	X	$36.40	=	$36.40
Grandfir	33.0	MBF	X	$44.00	=	$1,452.00
Mixed Species	69.0	GTON	X	$3.00	=	$207.00
Total	430.0 Mbf, 69.0 Gton					$26,929.60 ÷ 23.0 acres = $1,170.85/Acre

Form 5450-003a

(February 1986)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EXHIBIT B / PRE-SALE

5450-003

Contract No.

ORR04-TS-2027.0003

Cavitt Crumbs

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

Unit 4

Douglas Fir	163.0	MBF	X	$63.90	=	$10,415.70
Incense-cedar	1.0	MBF	X	$41.70	=	$41.70
Western Redcedar	2.0	MBF	X	$73.20	=	$146.40
Western Hemlock	1.0	MBF	X	$36.40	=	$36.40
Grandfir	10.0	MBF	X	$44.00	=	$440.00
Mixed Species	33.0	GTON	X	$3.00	=	$99.00
Total	177.0 Mbf, 33.0 Gton					$11,179.20 ÷ 10.0 acres = $1,117.92/Acre

Unit 5

Douglas Fir	246.0	MBF	X	$63.90	=	$15,719.40
Incense-cedar	2.0	MBF	X	$41.70	=	$83.40
Grandfir	5.0	MBF	X	$44.00	=	$220.00
Mixed Species	47.0	GTON	X	$3.00	=	$141.00
Total	253.0 Mbf, 47.0 Gton					$16,163.80 ÷ 11.0 acres = $1,469.44/Acre

Unit RW1

Douglas Fir	101.0	MBF	X	$63.90	=	$6,453.90
Incense-cedar	1.0	MBF	X	$41.70	=	$41.70
Grandfir	3.0	MBF	X	$44.00	=	$132.00
Mixed Species	30.0	GTON	X	$3.00	=	$90.00
Total	105.0 Mbf, 30.0 Gton					$6,717.60 ÷ 1.0 acres = $6,717.60/Acre

Unit RW2

Douglas Fir	68.0	MBF	X	$63.90	=	$4,345.20
Incense-cedar	1.0	MBF	X	$41.70	=	$41.70
Grandfir	1.0	MBF	X	$44.00	=	$44.00
Mixed Species	20.0	GTON	X	$3.00	=	$60.00
Total	70.0 Mbf, 20.0 Gton					$4,490.90 ÷ 1.0 acres = $4,490.90/Acre

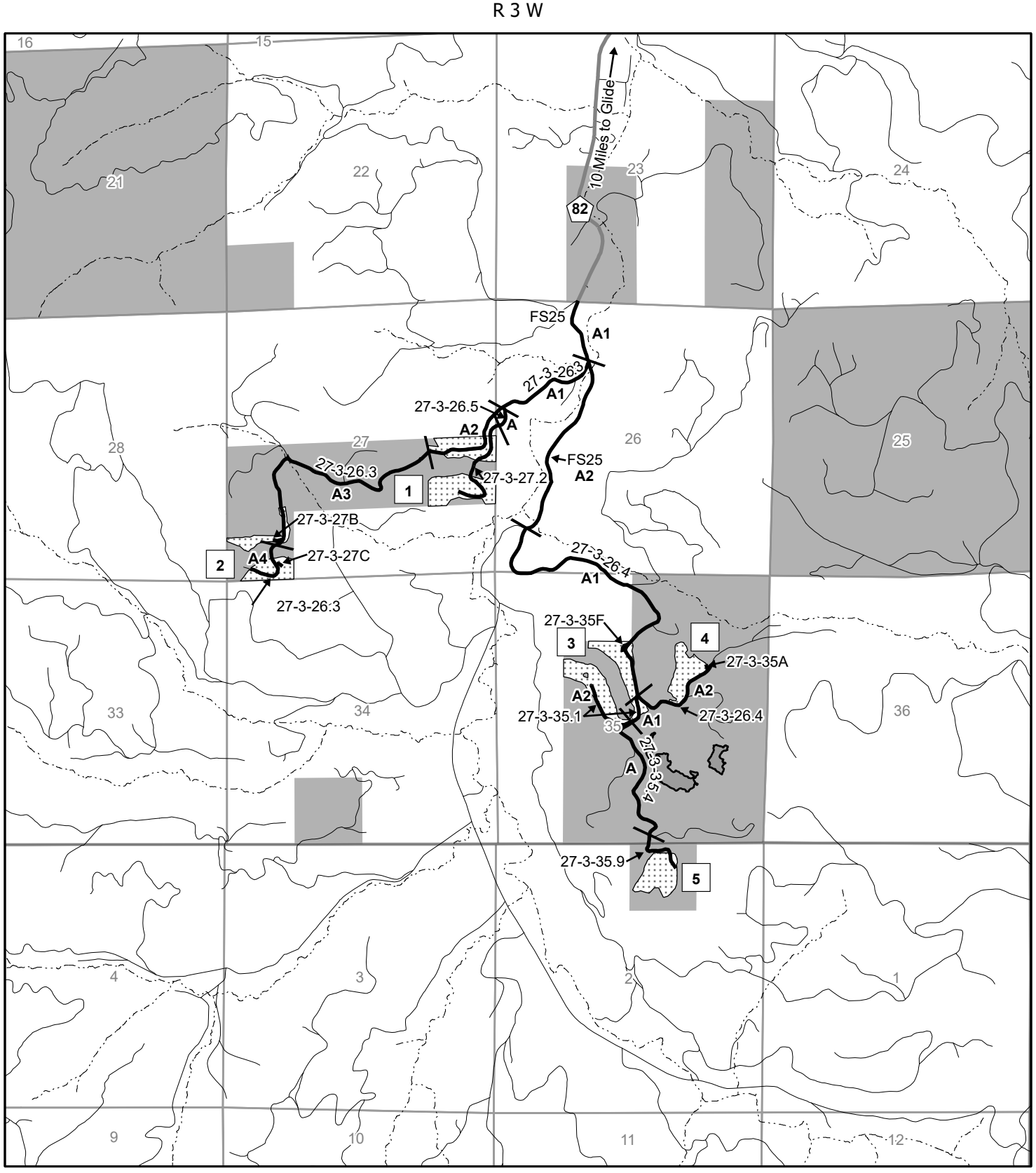
Bureau of Land Management

EXHIBIT D

Sheet 1 of 1

Cavitt Crumbs

Contract # ORR04-TS-2027.0003



Segment Break

Haul Route

Existing Road

County Road

Major Stream

Waterbody

BLM Lands

Harvest Area

Scale: 1:31,680

0 0.25 0.5 0.75 1 Miles

N

Date: 10/20/2026

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.

United States Department of the Interior
Bureau of Land Management Roseburg District
EXHIBIT D

Sale Name: Cavitt Crumbs									
Contract No. ORR04-TS-2027.0003									
Road Number	Road Segment	Segment Length	Segment Owner	Road Use Fees	Surface Type	Maintenance Fee ($/MBF/Mi.)	*Rockwear Fee ($/MBF/Mi.)	Maintained By	MBF Timber
27-3-26.3	A1	0.38	BLM		Rock	$0.74	$0.95	Purchaser	866.0
27-3-26.3	A2	0.38	BLM		Rock	$0.74	$0.95	Purchaser	622.0
27-3-26.3	A3	0.99	BLM		Rock	$0.74	$0.95	Purchaser	450.0
27-3-26.3	A4	0.22	BLM		Rock	$0.74	$0.95	Purchaser	222.0
27-3-26.4	A1	1.18	BLM		Rock	$0.74	$0.95	Purchaser	961.0
27-3-26.4	A2	0.38	BLM		Rock	$0.74	$0.95	Purchaser	208.0
27-3-26.5	A	0.07	SJTC	Free Use	Rock	$0.74	$0.95	Purchaser	244.0
27-3-27.2	A	0.67	BLM		Native	$0.74		Purchaser	244.0
27-3-27B	A	0.03	BLM		Native	$0.74		Purchaser	149.0
27-3-27C	A	0.02	BLM		Native	$0.74		Purchaser	74.0
27-3-35.1	A1	0.11	BLM		Rock	$0.74	$0.95	Purchaser	598.0
27-3-35.1	A2	0.23	BLM		Rock	$0.74	$0.95	Purchaser	267.0
27-3-35.4	A (Por.)	0.54	BLM		Rock	$0.74	$0.95	Purchaser	331.0
27-3-35.9	A	0.22	BLM		Rock	$0.74	$0.95	Purchaser	287.0
27-3-35A	A	0.02	BLM		Rock	$0.74	$0.95	Purchaser	68.0
27-3-35F	A	0.04	BLM		Rock	$0.74	$0.95	Purchaser	95.0
FS25	A1	0.24	FS	Free Use	Rock	$1.69		SJTC	1827.0
FS25	A2	0.74	FS	Free Use	Rock	$1.69		SJTC	961.0

*Rockwear Fee Payable to Segment Owner

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

TABLE OF CONTENTS

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 & Road Closure Activities
3400	Other Maintenance

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

GENERAL - 3000

3001 The Purchaser shall be required to maintain all roads listed and/or referenced in Section 44(B) Special Provisions of this contract in accordance with Sections 3000, 3100, 3200, 3300 and 3400 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 supply 200 cu. yds. of aggregate, conforming to the requirements in Section 1000 of Exhibit C of this contract, at locations and in the amounts designated by the Authorized Officer. Should the 200 cu. yds. of aggregate or a portion thereof be deemed unnecessary, a contract modification shall be required.

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.

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, street sweeper, or comparable equipment, and by the use of hand tools.

3104a Removal of bank slough and slide material includes placement of material at the nearest designated, suitable disposal site where material cannot erode into streams, lakes, or reservoirs or cause undue damage to road fill slopes which have been planted or mulched to control soil erosion as directed by the Authorized Officer.

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the purchaser.

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

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

3105 The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe, and maintaining water dips and water-bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.

3106 The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen station yards in quantity, at any one site. This work includes unlimited multiple sites on all roads required to be maintained by the Purchaser. Prior to repair and replacement of eroded material exceeding fifteen station yards at any one site, the Purchaser and the Authorized Officer or their Authorized Representatives shall agree in writing, in the field, to the quantity of material, borrow source and method of repair. Work may commence immediately after agreement.

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

3107 The Purchaser shall cut or trim trees and brush which obstructs vision or prevents the safe passage of traffic along the traveled way when directed by the Authorized Officer.

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

3108 The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway.

3108a The Purchaser shall perform logging operations on gravel or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer.

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

Upon completion of log haul, the road surface shall be swept clean of debris. Repair of the roads is not considered maintenance and shall be conducted at the Purchaser's expense.

3108b Any damage to gravel or bituminous roadways, as a result of logging operations, is not considered maintenance and shall be repaired at the Purchaser's expense.

3109 The maximum allowable rut depth on aggregate surfaced roads is 2". Roads with ruts exceeding this requirement shall be bladed and brought back into conformance with the typical sections shown in the drawings. Rut depth shall be measured by centering a minimum 3 foot long straightedge across the wheel rut maintaining contact with the aggregate at both ends of the strait edge. The rut depth shall be the distance measured between the bottom of the straight edge and the lowest point of the wheel rut.

SEASONAL MAINTENANCE - 3200

3201 The Purchaser shall perform preventative maintenance at the end of Purchaser's hauling each season and during non-hauling periods which occur between other operations on the contract area. This includes requirements specified in Section 3100.

3202 The Purchaser shall perform and complete maintenance specified in Sections 3000, 3100, and 3200 on all roads maintained by the Purchaser, prior to October 1 each year, except as specified in Subsection 3203, after initial commencement of construction or logging operations. Thereafter, all roads shall have continuous preventive maintenance and road cleanup until suspension of seasonal operations. This includes all roads used and not used during the proceeding operating seasons.

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

3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE & ROAD CLOSURE ACTIVITIES - 3300

3301 Road closure activities consist of subsoiling, installing waterbars, or blocking roads from access by vehicles. This work is required for road acceptance under Section 18 of this contract.

3302 Road closure activities shall be performed at the following locations:

Road Number	From Sta. / M.P.	To Sta. / M.P.	Road Closure Activities
27-3-27.2	0+00	22+70	Waterbar and Block
27-3-27B	0+00	1+90	Subsoil

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

27-3-27C	0+00	1+60	Subsoil
27-3-35A	0+00	0+90	Block
27-3-35F	0+00	2+00	Block

3303 Subsoiling shall be performed in accordance with Section 44(C) Special Provisions of this contract.

3304 Road blocking shall be completed with a trench barrier as shown on the Exhibit D Trench Barrier Detail sheet.

3305 Waterbars shall be installed across the full width of roadway at the spacing shown on the Exhibit D Waterbar Detail sheet.

3306 Protection of exposed surfaces shall be accomplished by placement of soil stabilization material in accordance with Section 1800 on designated roadways, landings, cut banks, fill slopes, and other areas disturbed by the purchaser’s decommissioning operations in accordance with these specifications and as shown in the plans.

3307 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under the terms of their contract within thirty 30 calendar days following the completion of hauling or the expiration of the Purchaser's right to cut and remove timber and in accordance with Sec. 16(b) of this contract. This work shall include any maintenance and/or damage repairs specified in Sections 3000, 3100, and 3200 necessary to meet the conditions specified in Subsection 3002 and shall be executed in accordance with Subsection 3302 of this section.

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

3308 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.

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

OTHER MAINTENANCE - 3400

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

3402 The Purchaser shall be permitted to remove ice and snow from roads authorized for use under this contract only when prior written approval has been secured from the Authorized Officer. The Purchaser shall submit a written request for permission to remove ice and snow in advance of the date operations are to begin. Upon receiving written authorization for ice or snow removal, the Purchaser will perform the work according to the conditions and equipment requirements set forth in the authorization.

3403 The Purchaser shall be required to furnish and apply non-saline water during dry hauling periods, when directed by the Authorized Officer, for the purpose of laying dust and to prevent loss of surface material. The first application of water shall be made at the rate of one- half gallon per yd^2 of road surface traveled. Subsequent applications shall be made for each 40 MBF of timber or 120 yds^3 of rock hauled. Subsequent watering may be done at a rate less than one-half gallon per yd^2 when a specified lesser rate is approved by the Authorized Officer.

3403a During dry hauling conditions when watering is not required, the Purchaser shall (reduce hauling speeds) (and) (or) (restrict the number of loads hauled) to reduce dust as directed by the Authorized Officer.

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

3404 The Purchaser may at his option and expense substitute (lignin sulfonate), (magnesium chloride), (calcium chloride) for water on any or all road segments listed in Subsection 3403 or 3403a provided that written approval is received from the Authorized Officer. Such authorization shall include the approval of product specifications for the application of the product to be used. Multiple applications may be required to maintain the conditions specified in Subsection 3403.

3405 The Purchaser shall be required to furnish and apply (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliatives in accordance with these specifications.

This work shall be performed upon acceptance of the required road construction, renovation, or improvement work and be placed prior to any timber hauling other than right-of-way timber (and rock hauling).

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

When timber hauling has commenced during the wet weather season, the Purchaser shall apply the required dust palliative during the subsequent summer hauling season as directed by the Authorized Officer.

Other means of dust abatement needed prior to the application of the required dust palliative shall be applied as approved by Authorized Officer.

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

All materials and labor shall be furnished by the Purchaser and placed in amounts and locations designated by the Authorized Officer, in which case a reduction in the total purchase price shall be made to offset the cost. Costs will be based upon the unit prices set forth in the current BLM Road Cost Guide.

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

3405b The Purchaser shall notify affected residents along the roads to be treated of the planned application of (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliatives at least (3) days prior to the work. Warning signs shall be posted at key intersections to alert users that the road is being treated. All signs shall be removed by the Purchaser within (thirty) days of treatment.

3406 Prior to the application of (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliatives, the roadbed shall be bladed and shaped to remove surface irregularities and excess loose material. The prepared surface must (have (1/2) to (1) inch of relatively loose material and) be visibly moist and drying.

3406b A light application of water to promote penetration shall be made in advance of the application of the specified dust palliative to allow the drying process to begin and to eliminate any saturated surface conditions.

3406c The prepared roadbed shall be approved by the Authorized Officer prior to application of the specified dust palliative.

3407 The Purchaser shall furnish in duplicate, commercial certification signed by vendor of compliance with the (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliatives material requirements specified under Subsection (3412b) (3412c). Commercial certification includes the date, identification number of truck or trailer, net mass, and brand name with each shipment. Also provide the net volume and specific gravity at 60 degrees F, percent solids by mass, and PH.

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

3408 Dust palliatives shall be applied with standard commercial distribution equipment operated in a manner that the material is uniformly applied on variable widths of surface at controlled rates.

3409 The Purchaser shall notify the Authorized Officer a minimum of (3) days in advance of application of required dust palliative.

3410 The Purchaser shall submit an application schedule for all dust palliative work to the Authorized Officer for approval. All work shall be in accordance with the approved plan.

3411 Required (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliatives shall only be applied when the atmospheric temperature is 45° F and steady or rising and when the weather is not foggy or rainy. Do not apply dust palliative if rain is anticipated within 24 hours of application or when the ground is frozen.

3412 The Purchaser shall apply to the prepared roadbed specified under Subsection 3405, a (lignin sulfonate) (magnesium chloride) (calcium chloride) dust palliative conforming to the material requirements of Subsection (3412b) (3412c). The rate of application shall be (0.5) gallons per yd^2 surface. (A second application at the rate of (0.3) gallons per yd^2 shall be applied at a time designated by the Authorized Officer.)

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

3412a If required, the (lignin sulfonate) (magnesium chloride) (calcium chloride) shall be field diluted within the application vehicle and be circulated at least 5 minutes to assure mixing. An air gap shall be provided between any water source and the materials being diluted. Accidental spills shall be contained to prevent entry in water courses or ponded water. The surface of adjacent structures and trees shall be protected from spattering or marring.

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

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

3412b Specifications for Lignin Sulfonate:

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

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

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

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

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

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

3412c Specifications for (magnesium chloride) (calcium chloride):

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

phosphorous	25.00 ppm
cyanide	0.20 ppm
arsenic	5.00 ppm
copper	0.20 ppm
lead	1.00 ppm
mercury	0.05 ppm
chromium	0.50 ppm
cadmium	0.20 ppm
barium	10.00 ppm
selenium	5.00 ppm
zinc	10.00 ppm
sulfate	4.3 percent maximum
nitrate	5.0 percent maximum.

(Concentration specifications for Calcium Chloride)

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

Calcium chloride shall conform to AASHTO M 144, type L for the specified concentration.

(Concentration specifications for Magnesium chloride)

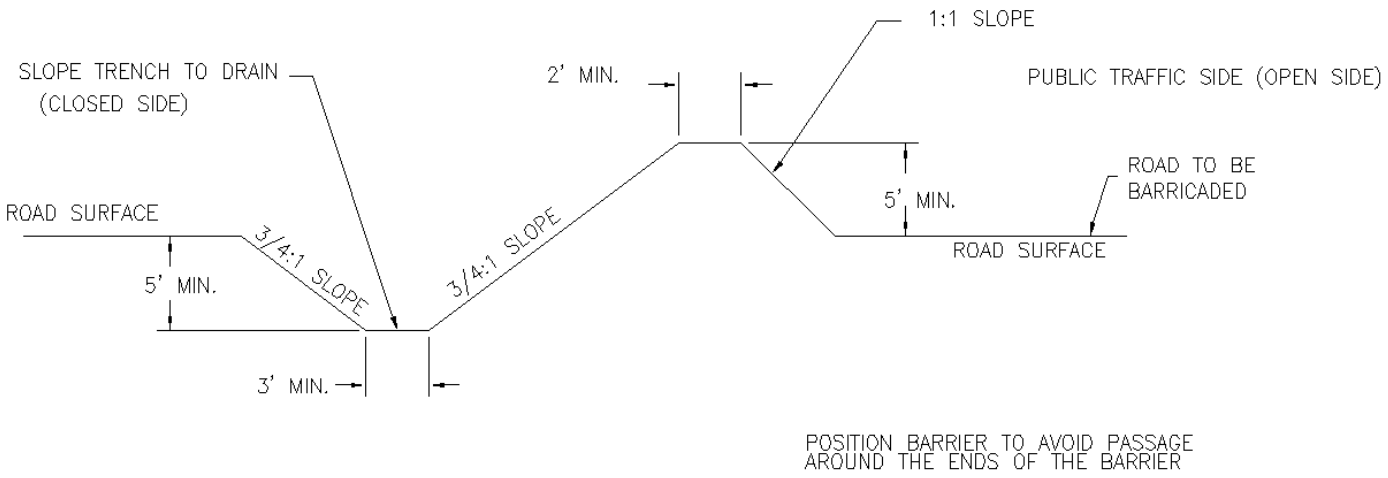
(1) Magnesium chloride by mass	28% minimum
(2) Water by mass	72% maximum
(3) Specific gravity, AASHTO T 227	1.290 to 1.330)

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

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

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

EXHIBIT D
TRENCH BARRIER DETAIL

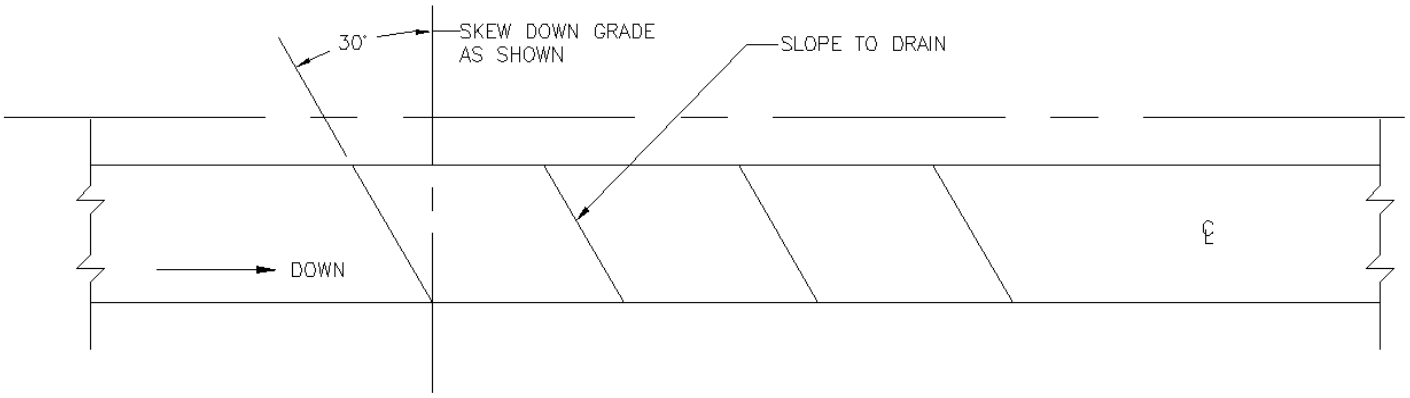


POSITION BARRIER TO AVOID PASSAGE
AROUND THE ENDS OF THE BARRIER

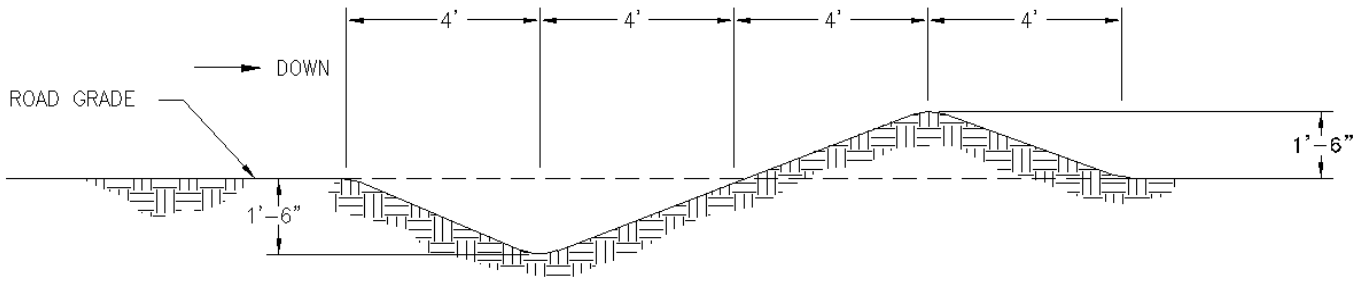
TRENCH BARRIER
SCALE: NONE

TIMBER SALE ROAD MAINTENANCE SPECIFICATIONS

EXHIBIT D
WATERBAR DETAIL



ROAD PLAN
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 PROFILE
SCALE: NONE

Bureau of Land Management

EXHIBIT E

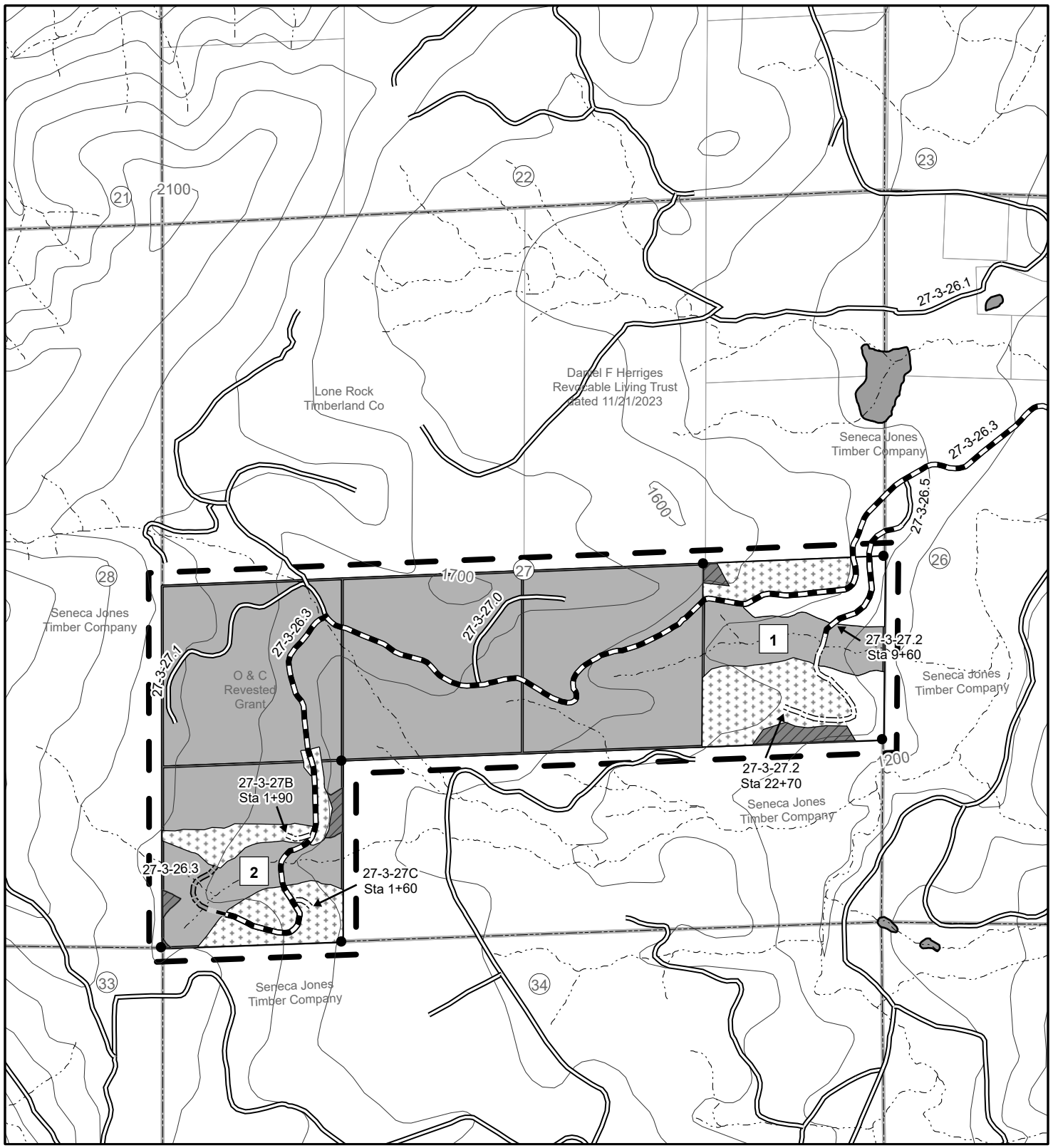
Sheet 1 of 2

Cavitt Crumbs

Contract # ORR04-TS-2027.0003

R 3 W

T 27 S



- Qualifying pre-1850 trees
- Existing Road
- Road Construction
- Optional Road Construction
- Road Renovation
- Optional Road Renovation
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area

Scale: 1:12,000

1 inch = 1,000 feet

0 500 1,000 1,500 Feet

N

Date: 10/14/2026

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.

Bureau of Land Management

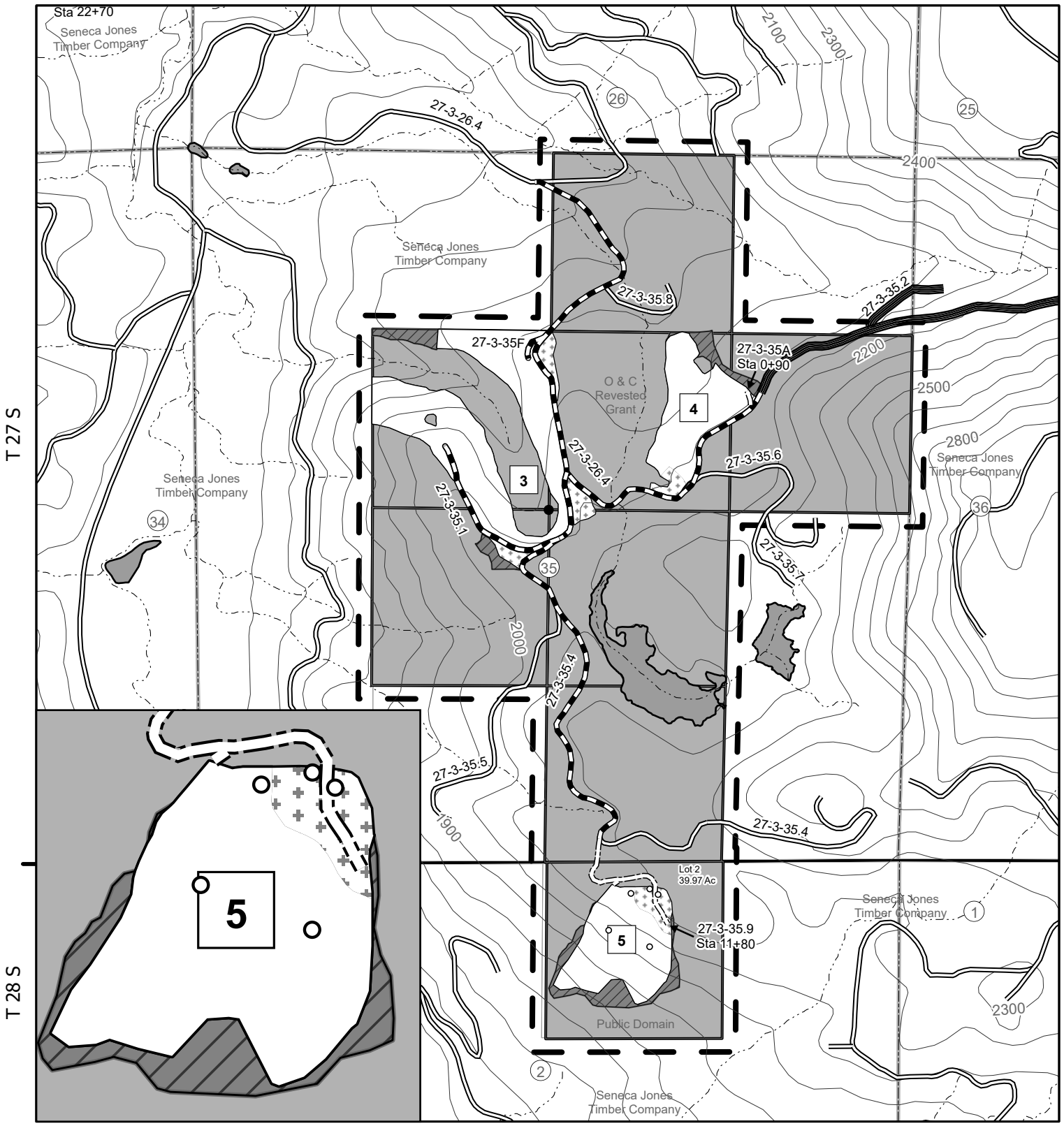
EXHIBIT E

Sheet 2 of 2

Cavitt Crumbs

Contract # ORR04-TS-2027.0003

R 3 W



- Qualifying pre-1850 trees
- Existing Road
- Road Construction
- Road Renovation
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area

Scale: 1:12,000

1 inch = 1,000 feet

0 500 1,000 1,500 Feet

N

Date: 10/14/2026

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.

Bureau of Land Management

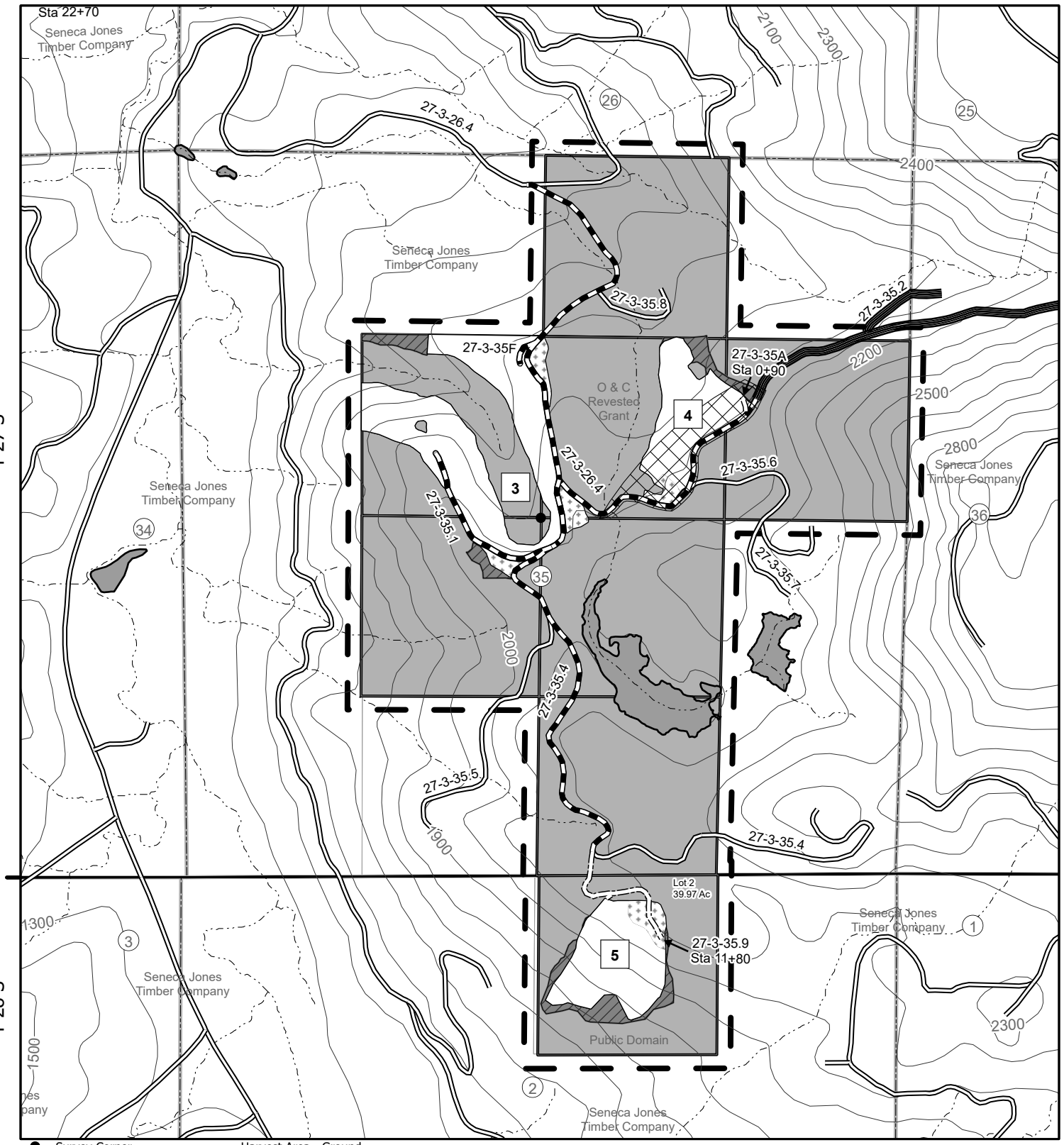
EXHIBIT F

Sheet 1 of 1

Cavitt Crumbs

Contract # ORR04-TS-2027.0003

R 3 W



- Survey Corner
- Stream
- Existing Road
- Road Construction
- Road Renovation
- Undrivable Road
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area
- Peregrine Falcon Seasonal Restriction March 1 - August 31

Scale: 1:12,000

1 inch = 1,000 feet

0 250 500 1,000 1,500 Feet

N

Date: 10/14/2026

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.

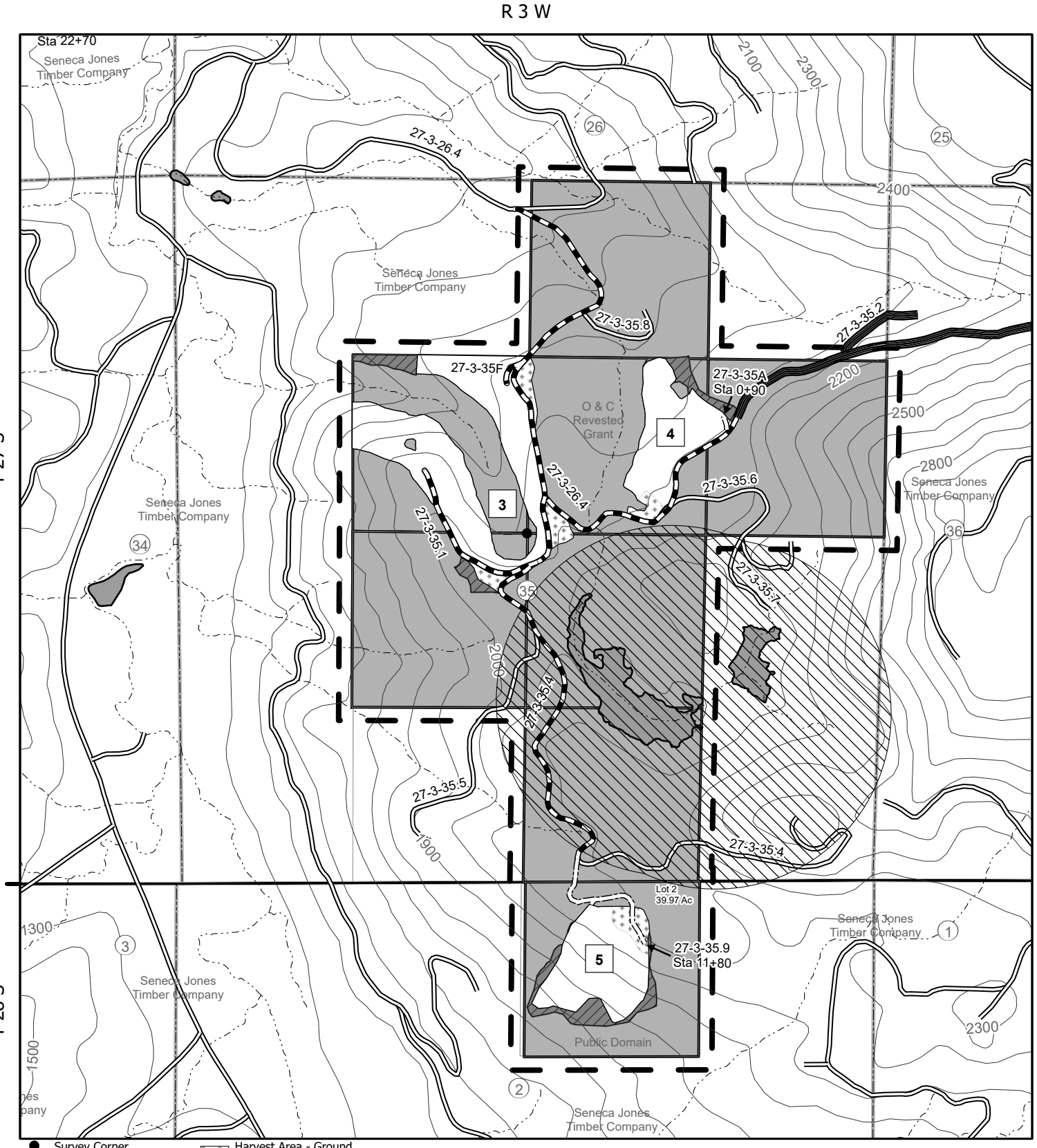
Bureau of Land Management

EXHIBIT G

Sheet 1 of 1

Cavitt Crumbs

Contract # ORR04-TS-2027.0003



- Survey Corner
- Stream
- Existing Road
- Road Construction
- Road Renovation
- Undrivable Road
- Water Body
- Harvest Area - Cable Yarding
- Harvest Area - Ground Based
- Retention Aggregates
- Reserve Area
- Contract Area
- Great Blue Heron Seasonal Restriction February 15 - July 31

Scale: 1:12,000

1 inch = 1,000 feet

0 250 500 1,000 1,500 Feet

N

Date: 10/21/2026

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.

United States
Department of the Interior
Bureau of Land Management

Timber Appraisal

Sale Name:	Cavitt Crumbs	**Sale Date:**	Tuesday, December 15, 2026
BLM District:	Roseburg DO	**Unit of Measure:**	16' MBF
Contract #:	ORR04-TS-2027.0003	**Contract Term:**	24 months
Sale Type:	Advertised	**Contract Mechanism:**	5450-003
			Lump Sum Sale of Timber and other Wood Products

SBA Set-Aside

Content

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

Prepared By: Kress, Christopher J - 11/4/2026
Approved By: Coppersmith, Jason H - 11/4/2026

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
O&C	Douglas	27S	3W	27	NE1/4SW1/4, W1/2SW1/4, N1/2SE1/4	Willamette
O&C	Douglas	27S	3W	35	W1/2NE1/4, SE1/4NE1/4, SE1/4NW1/4, NE1/4SW1/4, W1/2SE1/4	Willamette
PD	Douglas	28S	3W	2	Lot 2	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	1,709.0	1,845.0	1,910.0	35,947	1,277	8,553
Grandfir	94.0	100.0	100.0	1,458	0	342
Incense-cedar	12.0	14.0	14.0	424	0	221
Sugar Pine	5.0	6.0	6.0	48	3	10
Western Redcedar	4.0	4.0	5.0	109	11	48
Western Hemlock	3.0	3.0	3.0	61	16	23
Totals	**1,827.0**	**1,972.0**	**2,038.0**	**38,047**	**1,307**	**9,197**

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
12.0	68.0	2.0	82.0	22.3

Logging Costs

Stump to Truck	$456,745.79
Transportation	$144,045.00
Road Construction	$237,077.83
Maintenance/Rockwear	$15,102.61
Road Use	$0.00
Other Allowances	$27,860.76
Total:	**$880,831.99**
Total Logging Cost per MBF:	**$482.12**

Utilization Centers

Location	Distance	% of Net Volume
Winchester, OR	39.0 miles	100%

Profit & Risk

Profit	11%
Risk	4%
Total Profit & Risk	**15%**

Tract Features

Quadratic Mean DBH	14.0 in
Average GM Log	51 bf
Average Volume per Acre	22.3 mbf
Recovery	90%
Net MBF volume:	
Green	1,827.0 mbf
Salvage	0 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	59%
Average Yarding Slope	50%
Average Yarding Distance	175 ft
Cable Logging:	
Percent of Sale Volume	41%
Average Yarding Slope	15%
Average Yarding Distance	100 ft
Aerial Logging:	
Percent of Sale Volume	0%
Average Yarding Slope	0%
Average Yarding Distance	0 ft

Cruise

Cruise Completed	July 2026
Cruised By	Coppersmith, Kehoe, Kress
Cruise Method	
3-P and BLM 100	

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Stumpage Adjustment	Appraised Price/MBF		Appraised Value ($)
Douglas Fir	8,553	1,709.0	$638.69	$95.80	$482.12	$0.00	$0.00	$63.90	*	$109,205.10
Grandfir	342	94.0	$439.96	$65.99	$482.12	$0.00	$0.00	$44.00	*	$4,136.00
Incense-cedar	221	12.0	$416.65	$62.50	$482.12	$0.00	$0.00	$41.70	*	$500.40
Sugar Pine	10	5.0	$332.00	$49.80	$482.12	$0.00	$0.00	$33.20	*	$166.00
Western Redcedar	48	4.0	$731.25	$109.69	$482.12	$0.00	($66.31)	$73.20		$292.80
Western Hemlock	23	3.0	$363.68	$54.55	$482.12	$0.00	$0.00	$36.40	*	$109.20
Totals	**9,197**	**1,827.0**								**$114,409.50**

* Minimum Stumpage values were used to compute the Appraised Price/MBF (10.00% of Pond Value)

Other Wood Products

Product	Unit of Measure	# of Units	$/Unit	Appraised Value
Biomass	Green Tons	328	$3.00	$984.00
Totals				**$984.00**

Total Appraised Value: $115,393.50

Percent of Volume By Log Grade

Species	No. 1 & 2 Peeler	No. 3 Peeler	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Douglas Fir			1.0%	39.0%	54.0%	6.0%	

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Grandfir				61.0%	36.0%	3.0%	

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Incense-cedar							100.0%

Species	No. 1 Sawmill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	No. 5 Sawmill	No. 6 Sawmill	Camp Run
Sugar Pine							100.0%

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

Species	Peeler	No. 1 Sawmill	Special Mill	No. 2 Sawmill	No. 3 Sawmill	No. 4 Sawmill	Camp Run
Western Hemlock				20.0%	70.0%	10.0%	

Unit: 1

Net Volume/Acre: 17.5 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	398.0	430.0	445.0	2,226
Grandfir	20.0	22.0	22.0	87
Incense-cedar	2.0	3.0	3.0	68
Western Hemlock	1.0	1.0	1.0	5
Totals:	**421.0**	**456.0**	**471.0**	**2,386**

Regeneration Harvest	0.0
Partial Cut	24.0
Right of Way	0.0
Total Acres:	**24.0**

Unit: 2

Net Volume/Acre: 30.9 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	343.0	370.0	383.0	1,764
Grandfir	22.0	24.0	24.0	72
Sugar Pine	5.0	6.0	6.0	10
Incense-cedar	1.0	1.0	1.0	8
Totals:	**371.0**	**401.0**	**414.0**	**1,854**

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

Unit: 3

Net Volume/Acre: 18.7 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	390.0	421.0	436.0	2,067
Grandfir	33.0	35.0	35.0	115
Incense-cedar	4.0	5.0	5.0	70
Western Redcedar	2.0	2.0	3.0	28
Western Hemlock	1.0	1.0	1.0	6
Totals:	**430.0**	**464.0**	**480.0**	**2,286**

Regeneration Harvest	0.0
Partial Cut	23.0
Right of Way	0.0
Total Acres:	**23.0**

Unit: 4

Net Volume/Acre: 17.7 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	163.0	176.0	182.0	1,040
Grandfir	10.0	10.0	10.0	44
Western Redcedar	2.0	2.0	2.0	20
Western Hemlock	1.0	1.0	1.0	12
Incense-cedar	1.0	1.0	1.0	19
Totals:	**177.0**	**190.0**	**196.0**	**1,135**

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

Unit: 5

Net Volume/Acre: 23.0 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	246.0	266.0	275.0	690
Grandfir	5.0	5.0	5.0	14
Incense-cedar	2.0	2.0	2.0	34
Totals:	**253.0**	**273.0**	**282.0**	**738**

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

Unit: RW1

Net Volume/Acre: 105.0 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	101.0	109.0	113.0	526
Grandfir	3.0	3.0	3.0	8
Incense-cedar	1.0	1.0	1.0	12
Totals:	**105.0**	**113.0**	**117.0**	**546**

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

Unit: RW2

Net Volume/Acre: 70.0 MBF

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	68.0	73.0	76.0	240
Grandfir	1.0	1.0	1.0	2
Incense-cedar	1.0	1.0	1.0	10
Totals:	**70.0**	**75.0**	**78.0**	**252**

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

Total Stump To Truck	Net Volume	$/MBF
$456,745.79	1,827.0	$250.00

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

Yarding System	Unit of Measure	# of Units of Measure	$/Unit of Measure	Total Cost	Remarks
Wheel Skidder	GM MBF	303.0	$286.63	$86,848.89	For Logging the Thinning 5 Loads/Day, 5 mbf/Load, 1 Processer, 2 saws
Cable: Small Yarder	GM MBF	948.0	$252.52	$239,388.96	For Cable logging the Thinning 5 Loads/day. 5 mbf/load, 1 processer, 2 saws
Shovel	GM MBF	320.0	$179.29	$57,372.80	For logging the daylighting and R/W 6 Loads/Day, 5 mbf/Load, 1 processor, 2 saws
Wheel Skidder	GM MBF	401.0	$179.14	$71,835.14	For Logging the Regen 8 Loads/Day. 5 mbf/Load, 1 Processer, 2 saws
Subtotal				**$455,445.79**	

Additional Costs

Item	Unit of Measure	# of Units of Measure	$/Unit of Measure	Total Cost	Remarks
Intermediate Support	Each	13.0	$100.00	$1,300.00	
Subtotal				**$1,300.00**	

Additional Moves

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

Comments:
$6.90/gal was used for fuel price

Total	Net Volume	$/MBF
$144,045.00	1,827.0	$78.84

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	$/Unit of Measure	Total Cost	% of Sale Volume
Winchester, OR	39.0	All Logs	Hour	1,067.0	$135.00	$144,045.00	100%

Comments:
1,972 G.M. ÷ 5.0 mbf/Load = 395 Total Loads
161 Total minutes/Load ÷ 60 Minutes = 2.7 Hours/Load
395 Total Loads x 2.7 Hours/Load = 1,067 Total Hours
1,067 Total Hours x $135.00/Hour = $144,045.00

Engineering Allowances

Total	Net Volume	$/MBF
$252,180.44	1,827.0	$138.03

Cost Item	Total Cost
Road Construction:	$237,077.83
Road Maintenance/Rockwear:	$15,102.61
Road Use Fees:	$0.00

Comments:
Timber Haul Maintenance:
To Purchaser: $2,096.84
To SJTC: $1,942.86

Timber Haul Rockwear:
To BLM: $2,514.68
To SJTC: $16.23

Operational Maintenance:
To Purchaser: $8,532.00

Total	Net Volume	$/MBF
$27,860.76	1,827.0	$15.25

Environmental Protection

Cost item	Total Cost
Equipment Cleaning	$1,155.00
Snag Creation	$9,713.76
Sub-Soiling	$1,332.00
Subtotal	**$12,200.76**

Slash Disposal & Site Prep

Cost item	Total Cost
Burning of machine piles	$4,785.00
Machine Piling	$10,875.00
Subtotal	**$15,660.00**

Comments:
Other Allowances:
1. Fire Protection Included in Logging Costs

2. Slash Disposal
• Landing piling/ covering: 87 Landings @ $125/landing = $10,875.00
• To burn landing piles: 87 x $55 = $4,785.00

Miscellaneous:
3. Equipment Cleaning
• One Rubber Tire Skidder x 3 hours = 3 hours
• One Yarder x 3 hours = 3 hours
• Three Shovels x 3 hours = 6 hours
o 1 shovel for ground base, 1 for Right-of-Ways and 1 shovel for Cable Yarding
• Two Processer x 3 hours = 6 hours
o 1 processer for ground base and 1 for cable yarding
• One Excavator for Sub-Soiling = 3 hours
• 21 Total Hours x $55/ hour = $1,155.00

4. Snag Creation
• 534 snags ÷ 35 snags/day = 16 days of work
• $607.11/day for cutter x 16 days = $9,713.76

5. Sub-Soiling
• 0.58 subsoil miles
• Production per day = ¾ miles
• 0.58 / .75/day = 1 day x 9hrs/day = 9.0 total hrs x $115 = $1,035.00
• 1 move to sale @ 2.7 hours/move x $ 110/hr = $2970.00
• Total subsoil cost = $1,035.00 + $297.00= $1,332.00

Total for Other Allowances: $27,860.76

Cavitt Crumbs ORR05-TS-2027.0003

O&C Slash Disposal Buyout Option
• $4,510.00 x 19.09% = $860.96
19.09% represents admin fee
• $4,510.00 + $860.96 = $5,370.96

O&C Snag Creation Buyout Option
$7,892.43 x 19.09% = $1,506.66
19.09% represents admin fee
$7,892.43 + $1,506.66 = $9,399.09

PD Slash Disposal Buyout Option
• $275 x 19.09% = $52.50
19.09% represents admin fee
• $275.00 + $52.50 = $327.50

PD Snag Creation Buyout Option
$1,821.33 x 19.09% = $347.69
19.09% represents admin fee
$1,821.33 + $347.69 = $2,169.02

Total Buyout Cost = $17,266.57

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Version: 8.0.0.34

Summary of All Roads and Projects Updated: 10/15/2026

T.S. Contract Name: Cavitt Crumbs Tract No: 2027.0003
Prepared by: Prangley Ph: 5413156598 Print Date: 10/15/2026 1:17:08 PM

200 Clearing and Grubbing: 6.88 acres $25,283.08

300 Excavation: 2,203 cy $25,513.79
Haul < 500 ft: 0 sta-yds
Haul > 500 ft: 328 yd-mi

400 Drainage: $55,316.40
Culvert: 0.00 lf DownSpout: 0.00 lf
PolyPipe: 860.00 lf

500 Renovation: $16,291.28
Blading 4.06 mi

700-1200 Surfacing: $109,054.77
Commercial Quarry Name: Knife River Kester 2” 1,256.00 LCY
Commercial Quarry Name: Knife River Kester 6” 1,035.00 LCY

1300 Geotextiles: $0.00

1400 Slope Protection: $0.00

1800 Soil Stabilization: 0.00 acres $0.00

1900 Cattleguards: $0.00

2100 RoadSide Brushing: $1,165.51
Mechanical Brushing: 1.52 acres

2300 Engineering: 0.00 sta. $0.00

2400 Minor Concrete: $0.00

2500 Gabions: $0.00

8000 Miscellaneous: $0.00

Mobilization: Const. $4,453.00 Surf. $0.00..... $4,453.00

Quarry Development: $0.00

Total: 1,827 mbf @ $129.763/mbf = $237,077.83

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: Cavitt Crumbs

Tract No: 2027.0003

ROAD CONSTRUCTION SUMMARY

1/ Const/Impr/Renov 2/ yds end 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	Reno- vation	Surf- acing	Geo- textile	Slope Protect	Soil Stabil	Cattle Guard	Rdside Brush	Engin- eering	Minor Concrete	Gab- ions	Miscel- laneous	Mobil- ization	Quarry Develop	Sub- Total
27-3-26.3	R	2.00	$3,810 1.53 ac		$31,779 4/ 460'	$7,069 2.00 mi	$5,689 140 LCY										$925		$49,272
27-3-26.4	R	0.93	$2,723 0.61 ac		$11,769 4/ 200'	$5,318 0.93 mi	$31,556 685 LCY										$983		$52,349
27-3-27.2 CONST	C	0.25	$4,647 1.32 ac	$2,870 625cy	$3,578 4/ 40'		$416 10 LCY										$220		$11,732
27-3-27.2 RENO	R	0.18	$3,653 0.97 ac	$6,839		$245 0.18 mi											$206		$10,943
27-3-27B	C	0.04	$848 0.19 ac	$1,549 87cy													$46		$2,443
27-3-27C	C	0.03	$1,696 0.36 ac	$2,720 292cy													$85		$4,500
27-3-35.1	R	0.35	$2,310 0.68 ac		$4,095 4/ 80'	$657 0.35 mi	$9,560 200 LCY										$318		$16,941
27-3-35.4	R	0.56				$1,052 0.56 mi	$8,809 170 LCY					$1,166 1.52ac					$211		$11,238
27-3-35.9	C	0.22	$5,597 1.22 ac	$9,060 1136cy	$4,095 4/ 80'		$47,206 956 LCY										$1,263		$67,220
27-3-35A	C	0.02		$2,476 63cy			$3,660 80 LCY										$117		$6,253
27-3-35F	R	0.04				$1,949 0.04 mi	$2,160 50 LCY										$79		$4,188

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
1800	Soil Stabilization
2100	Roadside Brushing

TIMBER SALE ROAD SPECIFICATIONS

GENERAL – 100

101 - Prework Conference(s):

A prework conference will be held prior to the start of new construction, improvement, renovation, 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, pit run rock, bank or river-run gravels, etc., to provide support and, in the event no surface course is placed, the running surface for traffic load.

BLM - Bureau of Land Management

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

TIMBER SALE ROAD SPECIFICATIONS

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.

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

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

Spalls - Flakes or chips of stone.

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.

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

TIMBER SALE ROAD SPECIFICATIONS

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-in drop height.

AASHTO T 191
Sand Cone. Density of soil in place: For subgrade use 6-inch or 12-inch cone. For rock surfacing for 1-1/2-inch minus to 3-inch minus use 12-inch cone.

AASHTO T 205
Rubber balloon. Density of soil in place. Use for compacted or firmly bonded soil.

AASHTO T 209
Maximum Specific Gravity of Bituminous Paving Mixtures.

AASHTO T 210
Durability of aggregates based on resistance to produce fines.

AASHTO T 224
Correction for coarse particles in the soil.

AASHTO T 238
Density of Soil and Soil-Aggregate in place by nuclear methods.

AASHTO T 248
Reducing field samples of aggregate to testing size by mechanical splitter, quartering, or miniature stockpile sampling.

ASTM D 4564
Determination of relative density of cohesionless soils.

TIMBER SALE ROAD SPECIFICATIONS

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

103 - Compaction equipment shall meet the following requirements:

103a - Padded Drum (Tamping) Rollers. The unit shall consist of a drum with pads, be either self propelled or towed by a tractor, and capable of operating at a speed of 6 mph. The drum shall be no less than 48 inches in diameter over the pads and not less than 60 inches in width. The pads shall have a minimum height of 3 inches, and a face area of not less than 14 square inches. The weight at drum shall be no less than 8000 lb.

103b - Sheepfoot (Tamping) rollers. A tamping roller unit shall consist of two watertight metal drums mounted in frames in such manner as to be fully oscillating, together with a tractor having sufficient weight and power under actual working conditions to pull the roller drums at a minimum speed of 2.5 miles per hour. The drums shall be no less than 60 inches in diameter and no less than 54 inches in length, measured at the drum's surface, and shall be studded with tamping feet projecting not less than 7 inches from the face of the drums.

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

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

103c - Smooth-wheel power rollers. Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.

103d - Pneumatic-tired rollers. Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear

tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

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

103e - Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.

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.

TIMBER SALE ROAD SPECIFICATIONS

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 seeps from 1200 to 1800 vibrations per minute (VPM), and the centrifugal force developed shall be at least 40,000 pounds at 1800 RPM. The vibratory grid roller shall be self-propelled and have a power unit of not less than 112 horsepower. The "grid" design shall be a herringbone or z-bar pattern around the circumference of the drum. The grid bars shall be 1 inch in height and spaced not more than 8-1/2 inches apart.

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

CLEARING AND GRUBBING - 200

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.

201a - This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions from borrow pits, quarries, channel changes, stockpile sites, etc., in accordance with these specifications.

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

202a - Where clearing limits for structures have not been staked or shown on the plans, the limits shall extend 10 feet out from the outside edge of the structure.

202b - Where clearing limits for borrow pits, or quarries, stockpile sites, channel changes, and ditches have not been staked or shown on the plans, the limits shall extend 10 feet back of the top of the cut slope and 5 feet outside of the outside slope lines.

203 - Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsections 202, 202a, 202b, and as shown on the plans.

203a - Brush under 2 feet in height need not be cut within the limits established for clearing.

TIMBER SALE ROAD SPECIFICATIONS

203c - Disposal of logs from private timber cleared within the limits established as staked on the ground shall consist of decking at a location designated by the Authorized Officer.

204 - Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, 204c, and 204d.

204a - Stumps, including those overhanging cut banks, shall be removed within the required excavation limits.

204b - Stumps and other protruding objects shall be completely removed within the limits of required embankments having heights of less than 4 feet. When authorized, stumps and other nonperishable objects may be left provided they do not extend more than 6 inches above the existing ground line.

204c - On excavated areas, roots and embedded wood shall be removed to a depth not less than 6 inches below the subgrade.

204d - On areas to be occupied by embankments having heights greater than 4 feet, no stump or portion thereof shall remain within 3 feet of embankment subgrades or slope surfaces after grubbing is completed.

205 - Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.

210 - Disposal of clearing and grubbing debris shall be by piling or scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering or piling shall have the prior approval of the Authorized Officer. Piled slash may be re-used as mulch during road decommissioning.

210a - Disposal of clearing and grubbing 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.

TIMBER SALE ROAD SPECIFICATIONS

212 - No grading will be permitted prior to completion and approval by the Authorized Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.

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

EXCAVATION AND EMBANKMENT - 300

301 - This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.

302 - Excavation shall also consist of the excavation of road and landing cut sections, borrow sites, backfilling, leveling, ditching, grading, compaction, and other earth moving work necessary for the construction of the roadway in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes or metal tags.

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.

305d - Where embankments are constructed predominantly of blasted rock material, depth of layers shall not exceed 4 feet. Rock fragments having dimensions greater than 4 feet will be permitted provided that they have no dimensions greater than 6 feet and that clearance between adjacent fragments is adequate for the placing and compacting of material in horizontal layers as specified, and that no part of the larger fragments comes within 4 feet of subgrade.

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 and 103i.

306a - Optimum moisture content shall be determined by hand clump test i.e., where a soil sample forms a firm ball by hand that does not crumble, free moisture is not visible on the surface, and material does not squeeze between fingers.

306b - Minimum compaction for each layer of embankment, selected borrow, and selected roadway excavation material placed at optimum moisture shall be a minimum of 8 complete passes or until visual displacement ceases.

308 - In the case of rock fills, placement of material in layers is not required and such material may be placed by end-dumping or other methods approved by the Authorized Officer provided that the rock be reasonably prevented from escaping beyond the embankment toe.

TIMBER SALE ROAD SPECIFICATIONS

312 - When material, except solid rock, encountered in cuts at subgrade, is suitable for use in forming the finished roadbed, the top 6-inch layer of the subgrade shall be thoroughly scarified for the full width of the roadbed. Roots, sod, and other deleterious material or stones that will not pass a 6-inch square opening shall be removed. The scarified material shall be processed to the optimum moisture content suitable for maximum density and compacted in accordance with Subsection 306.

313 - In cut areas where solid rock is encountered at, or near subgrade, the rock shall be excavated to a minimum depth of 6 inches below subgrade elevation and the excavated area backfilled with suitable material. The backfill material shall be processed to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

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 and 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.

321b - Excess construction material as specified under Subsection 321 shall be loaded, hauled, and disposed of at a designated disposal site or used as embankment for designated roadbeds as shown on the plans.

321c - End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.

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

327 - The finished grading shall be approved by the Authorized Officer in segments. The Purchaser shall give the Authorized Officer 3 days notice prior to start of surfacing operations.

TIMBER SALE ROAD SPECIFICATIONS

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 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.

405b - Corrugated-aluminum-alloy pipe culverts and pipe-arch culverts shall conform to the requirements of AASHTO M 196.

405e - Corrugated-polyethylene pipe for culverts 12-inch through 36-inch diameter shall meet the requirements of AASHTO M 294.

406 - Coupling bands shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 with the exception of band widths and the "Hugger"-type band which shall conform to the details, dimensions, and typical diagram shown on the plans.

406a - "Hugger"-type coupling bands shall only be used with annular corrugated pipe and pipe-arch culverts, or helically corrugated pipe and pipe-arch culverts having annular reformed ends. Annular reformed ends shall consist of two annular corrugations.

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.

TIMBER SALE ROAD SPECIFICATIONS

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 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 material.

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 material.

413 - Pipe culverts shall be bedded on select fill material, having a depth of not less than 6 inches as shown on plans. Foundation material shall be of uniform density throughout the length of the structure and shall be shaped to fit the pipe.

416 - Select fill material for pipe culverts shall be fine readily compactable soil, or crushed rock material in accordance with Section 1204 gradation C, as shown on the plans.

417 - For pipe culverts:
Side-fill material conforming to the requirements of Subsection 416 shall be placed and compacted under the haunches of the pipe, and shall be brought up evenly and simultaneously on both sides of the pipe to 1 foot above the pipe, in layers not exceeding 6 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.

TIMBER SALE ROAD SPECIFICATIONS

Each layer shall be moistened or dried to a uniform moisture content suitable for maximum compaction and immediately compacted by approved hand or pneumatic tampers as specified in Subsection 306.

418 - Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.

419 - The pipe culvert after being bedded and backfilled as required by these specifications shall be protected by a 1-foot cover of fill before heavy equipment is permitted to cross the drainage structures. Removal of the protection fill shall be as directed by the Authorized Officer.

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 grade culverts.

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. The Purchaser shall remove the old culverts from the work site prior to road acceptance.

429 - Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water in a manner that will avoid damage to adjacent property. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

501 - This work shall consist of reconditioning and preparing the roadbed and shoulders, installing culverts and splash pads, minor excavation and/or embankment, cleaning and shaping drainage ditches, brushing vegetation from cut and embankment slopes, daylighting, cleaning and repairing drainage structures of existing roads in accordance with these specifications, as shown on the plans, and as marked on the ground with stakes or metal tags.

501a - This work shall include the removal and disposal of slides in accordance with these specifications.

TIMBER SALE ROAD SPECIFICATIONS

502 - The existing road surface shall be bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes or metal tags.

502a - Rocks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.

502b - Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.

504 - Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsection103f and 103i.

504a - Minimum compaction required shall be a minimum of 8 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 1 day prior to surfacing operations. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

510 - Unless otherwise shown on the plans, daylighting shall include removing shrubs and trees within 33 feet from the centerline of existing roads, as shown on the plans and marked on the ground, in accordance with Section 200 (Clearing and Grubbing).

Note: The distance from the road centerline to the clearing limits posted on the ground may vary. Daylighting operations are only required within 33 feet of road centerline or up to the posted clearing limits, whichever is closest to the centerline of the road.

510b - Unless otherwise shown on the plans, stumps located within 5 feet of the edge of road shall be cut to a maximum height of 4 inches above the ground surface or above obstructions such as rocks.

TIMBER SALE ROAD SPECIFICATIONS

510c - Unless otherwise shown on the plans, trees reserved from cutting are marked with orange paint, and shall be limbed to a minimum height of 14 feet above the running surface of the roadway.

510d - All slash generated during daylighting operations shall be piled and covered with plastic sheeting in accordance with Section 42(F)(1) of the contract.

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.

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.

TIMBER SALE ROAD SPECIFICATIONS

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.

1002b - In accordance with Subsections 1005, 1006, and 1006a, the following test reports for crushed rock material shall be submitted to, and approved by, the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T96, AASHTO T210, and DMSO. Tests must have been conducted within the last 365 days and be for the same quarry shot that the crushed rock is coming from. New tests must be performed if there is a new shot, or other change in the material being supplied to the crusher.

1002c - In accordance with Subsection 1004, the following test reports for crushed rock material shall be submitted to and approved by the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T11 and AASHTO T27.

1003 - Crushed rock material produced from gravel shall have 2 manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve.

1004 - Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements (as determined by AASHTO T11 & T27):

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	-	-	65-95	100	100	-
1 1/2-inch	-	90-95	-	-	-	-	-	-
1-inch	45-75	50-90	-	100	-	50-85	60-90	-
3/4-inch	-	-	-	-	28-70	-	-	-
1/2-inch	-	-	-	0-20	-	27-60	44-70	-

TIMBER SALE ROAD SPECIFICATIONS

3/8-inch	-	-	-	-	-	-	-	-
No. 4	15-45	15-50	-	0-5	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	-

1004j - Gabion rock shall be sound, durable and from a source approved by the Authorized Officer. Rock shall not be less than 4 inches minimum dimension, nor greater than 8 inches maximum dimension. The rock shall be reasonably well graded between the limiting sizes.

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

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

1006a - 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.

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 72 hours prior to that inspection.

1010 - Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 3 inches in depth. When more than one layer is required,

each shall be shaped, processed, compacted, and approved in writing by the Authorized officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and 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 a 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 a minimum of 8 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.

1202b - In accordance with Subsections 1205, 1206, and 1206a, the following test reports for crushed rock material shall be submitted to and approved by the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T96, AASHTO T210, and DMSO. Tests must have been conducted within the last 365 days and be for the same quarry shot that the crushed rock is coming from. New tests must be performed if there is a new shot, or other change in the material being supplied to the crusher.

TIMBER SALE ROAD SPECIFICATIONS

1202c - In accordance with Subsection 1204, the following test reports for crushed rock material shall be submitted to and approved by the Authorized Officer, prior to delivery and placement of aggregate: AASHTO T11 and AASHTO T27.

1203 - When crushed rock material is produced from gravel, not less than 65 percent by weight of the particles retained on the No. 4 sieve will have 2 manufactured fractured faces.

1204 - Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements (as determined by AASHTO T11 & T27):

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.

TIMBER SALE ROAD SPECIFICATIONS

1206a - The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.

1208a - Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.

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 72 hours prior to the inspection.

1210 - Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed and base course in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 3 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 8 passes over each full-width layer, or until visual displacement ceases.

TIMBER SALE ROAD SPECIFICATIONS

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, geofabric rolls, 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.

1703 - This work shall consist of furnishing and installing silt fences, straw bales, geofabric rolls, or similar erosion control devices in accordance with these specifications and in reasonably close conformity with the lines and grades as directed by the Authorized Officer.

1703a - Additional erosion control work consisting of furnishing and installing silt fences, straw bales, geofabric rolls, or similar erosion control devices, may be required at the option of the Authorized Officer. Providing that the additional erosion control is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and installing such additional erosion control devices. Costs shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

1704 - The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.

1708a - Road segments not completed during dry weather periods shall be winterized, by providing a well-drained roadway using water bars, maintaining drainage, and performing additional measures necessary to minimize erosion and other damage to the roadway, as directed by the Authorized Officer. Portions of roads not having surface rock in place will be blocked or barricaded to prevent vehicular traffic.

SOIL STABILIZATION – 1800

1801 - This work shall consist of seeding and mulching on designated cut, fill, borrow, disposal, and special areas in accordance with these specifications and as shown on the plans. This work is required for road acceptance under Section 18 of this contract.

TIMBER SALE ROAD SPECIFICATIONS

1802a - Soil stabilization work consisting of seeding and mulching shall be performed on new road construction, road renovation, improvements, landings, and disturbed areas in accordance with these specifications and as shown on the plans.

1803 - Soil stabilization work as specified under Subsection 1802a shall be performed during the following seasonal periods:

From: September 1st	To: October 15th

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Section 1700. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

1803a - The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.

1804 - The BLM shall provide native grass/forb seed for this project.

1806a - Additional soil stabilization work consisting of seeding, and mulching, may be required at the option of the Authorized Officer. Providing the additional stabilization is not due to Purchaser negligence as specified in Sec. 12 of the contract, a reduction in the total purchased price shall be made to offset the cost of furnishing and applying such additional stabilization material. Cost shall be based upon the unit price set forth in the current BLM Timber Appraisal Production Cost Schedule.

1808 - Mulch materials conforming to the requirements of Subsection 1808a shall be furnished by the Purchaser in the amounts specified under Subsection 1811 and applied in accordance with Subsection 1812.

1808a - Straw mulch shall be certified weed free from commercial grain fields and native grass fields. Straw mulch shall be from oats, wheat, rye, or other approved grain crops and shall be free from, mold, or other objectionable material. Straw mulch shall be in an air-dry condition and suitable for placement.

1809 - Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.

TIMBER SALE ROAD SPECIFICATIONS

1810 - Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.

1811 - The Purchaser shall furnish and apply to approximately 0.5 acres designated for treatment as shown on the plans and as specified under Subsections 1802a and 1806a, a mixture of grass seed and mulch material at the following rate of application:

Grass Seed	25 lbs./acre
Mulch	2000 lbs./acre

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

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

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

1814 - The Purchaser may reduce the application rate on partially covered slopes and refrain from application on areas already well stocked with grass or on rock surfaces as determined by the Authorized Officer.

1815 - The seed and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 1815b.

1815b - Dry Method - Blowers, mechanical seeders, seed drills, landscape seeders, cultipaker seeders, fertilizer spreaders, or other approved mechanical seeding equipment may be used when seed and fertilizer are to be applied in dry form.

1819 - The Purchaser shall notify the Authorized Officer at least 3 days in advance of date he intends to commence the specified soil stabilization work.

TIMBER SALE ROAD SPECIFICATIONS

1820 - When sprayed, the mix must overlap on the ground uniformly so that there will be no voids in the treated areas.

1821 - Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.

1822 - No materials shall be applied when wind velocities would prevent a uniform application of the mix or when winds would drift the mix outside of the designated treatment area.

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

ROADSIDE BRUSHING - 2100

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

2102 - Roadside brushing maybe 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 2 inches above the ground and running surface. Limbs below the 2 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.

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.

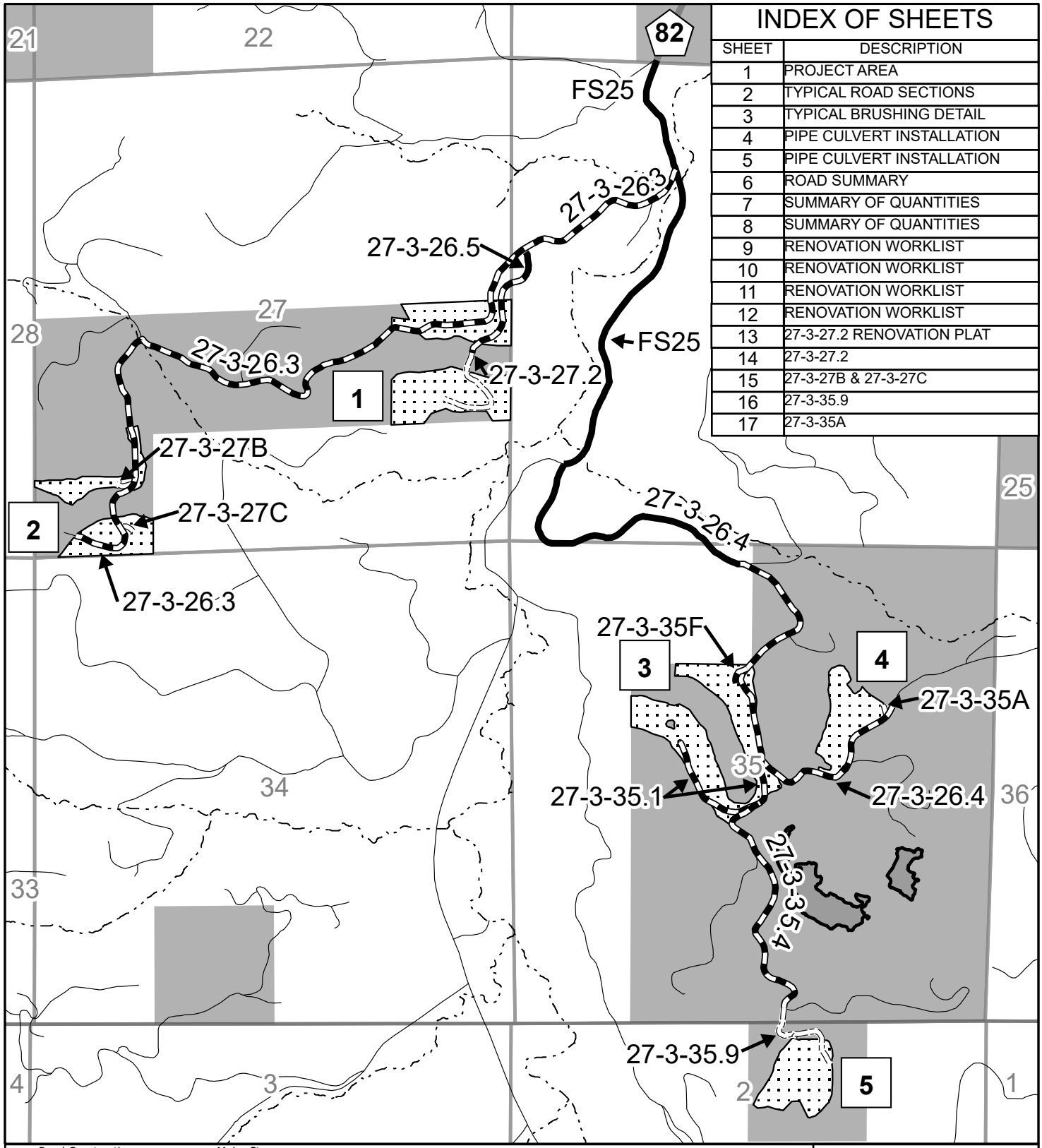
2115 - Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.

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.

UNTIED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ROSEBURG DISTRICT

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003



INDEX OF SHEETS

SHEET	DESCRIPTION
1	PROJECT AREA
2	TYPICAL ROAD SECTIONS
3	TYPICAL BRUSHING DETAIL
4	PIPE CULVERT INSTALLATION
5	PIPE CULVERT INSTALLATION
6	ROAD SUMMARY
7	SUMMARY OF QUANTITIES
8	SUMMARY OF QUANTITIES
9	RENOVATION WORKLIST
10	RENOVATION WORKLIST
11	RENOVATION WORKLIST
12	RENOVATION WORKLIST
13	27-3-27.2 RENOVATION PLAT
14	27-3-27.2
15	27-3-27B & 27-3-27C
16	27-3-35.9
17	27-3-35A

Road Construction
Haul Route
Road Renovation
Existing Road
County Road
Major Stream
Waterbody
BLM Lands
Harvest Area

0 0.25 0.5 0.75 1 Miles

PROJECT AREA

ENGINEER: NATHAN PRANGLEY

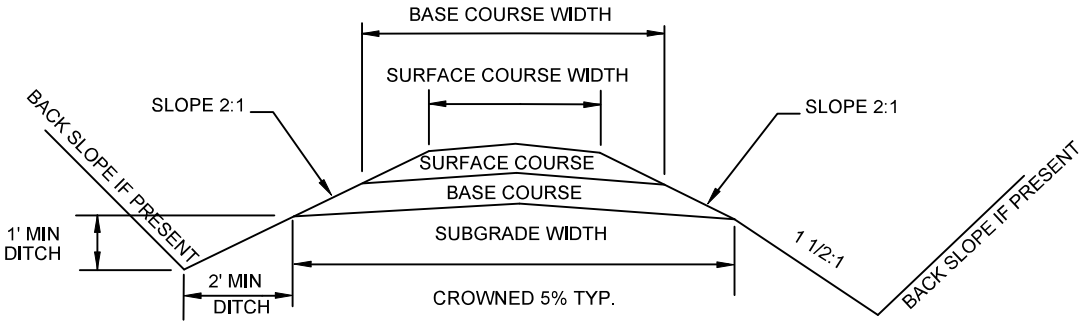
DATE: 10/15/2026 | SHEET 1 OF 17

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

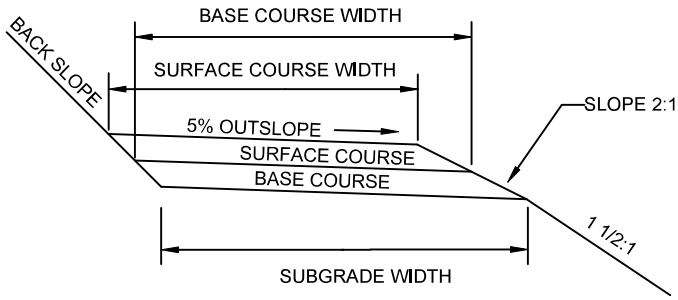
EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

CROWNED ROAD



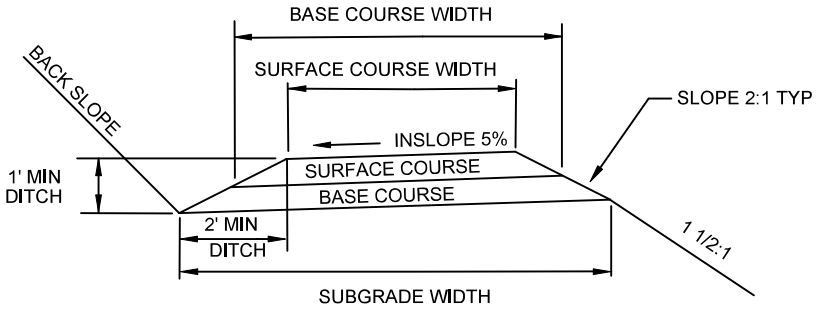
OUTSLOPE ROAD



TYPICAL BACKSLOPES:

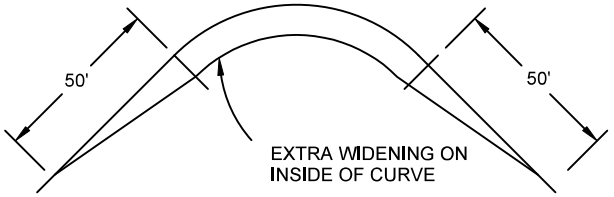
SLOPES UNDER 50%	¾:1
SLOPES OVER 50%	½:1
SOLID ROCK	¼:1

INSLOPE ROAD

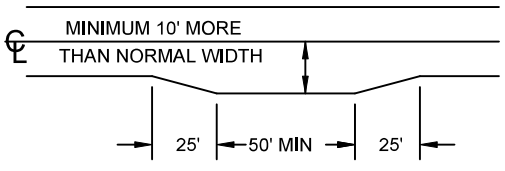


TYPICAL CURVE WIDENING

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



TYPICAL TURNOUT DIMENSIONS



ALWAYS THINK SAFETY

TYPICAL ROAD SECTIONS

ENGINEER: NATHAN PRANGLEY

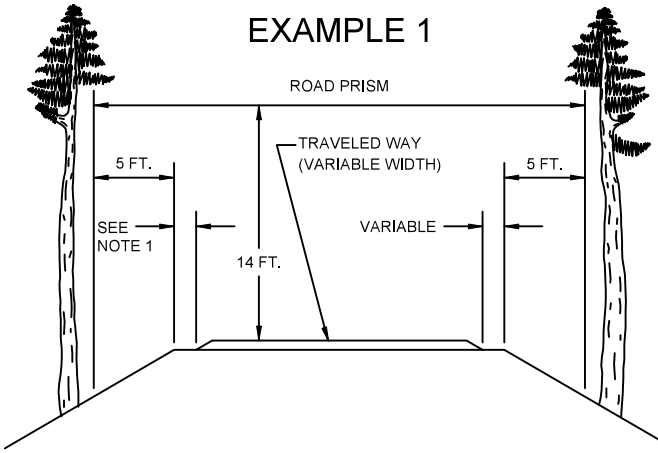
DATE:10/15/2026 | SHEET 2 OF 17

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

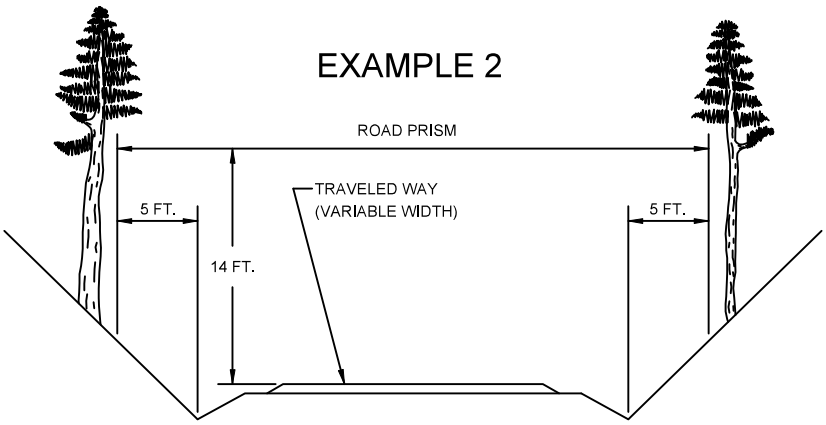
EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

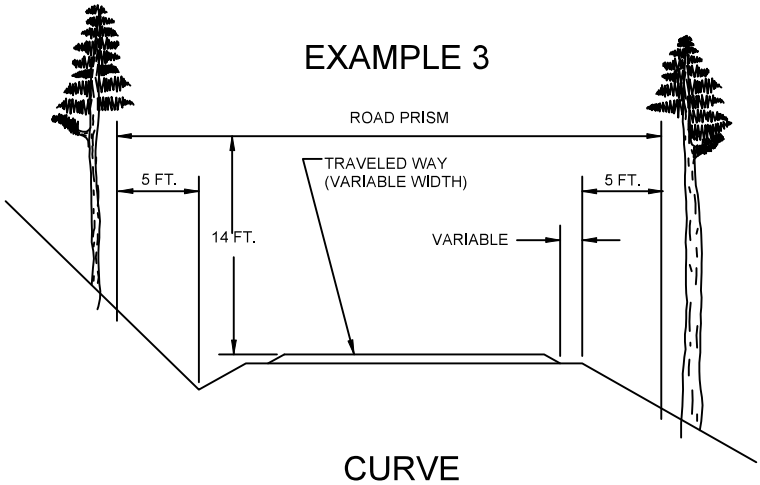
EXAMPLE 1



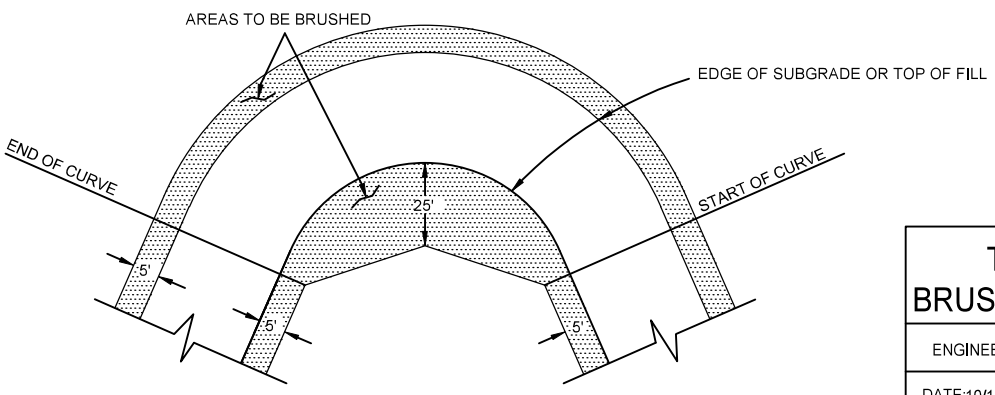
EXAMPLE 2



EXAMPLE 3



CURVE



ALWAYS THINK SAFETY

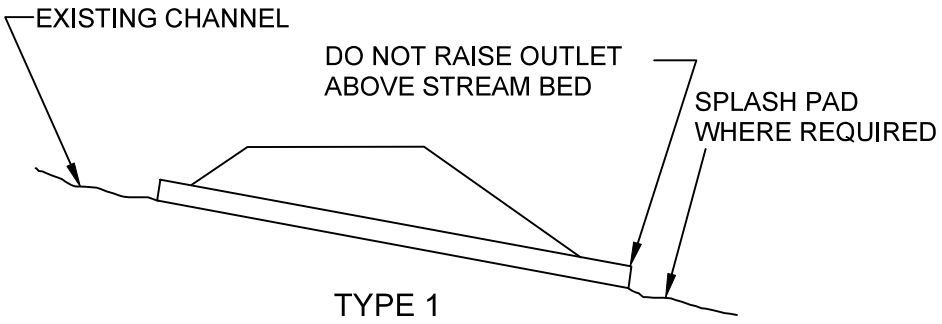
TYPICAL BRUSHING DETAIL	
ENGINEER: NATHAN PRANGLEY	
DATE:10/15/2026	SHEET 3 OF 17

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

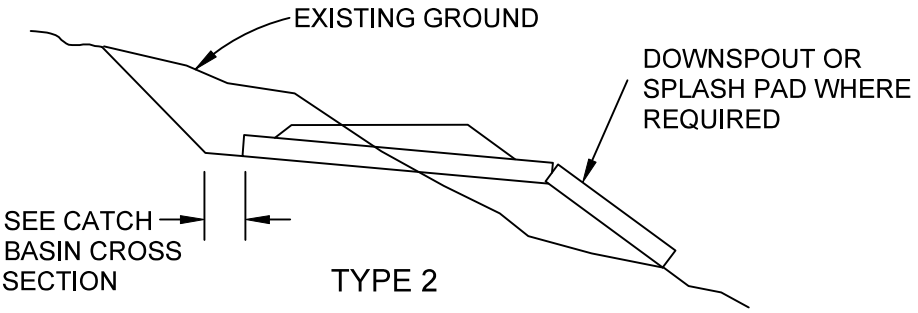
EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

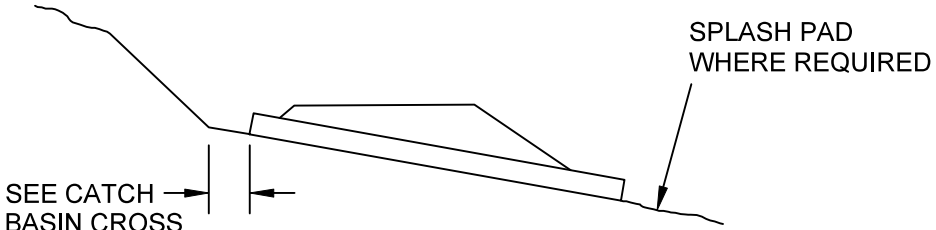
CULVERT INSTALLATION TYPES



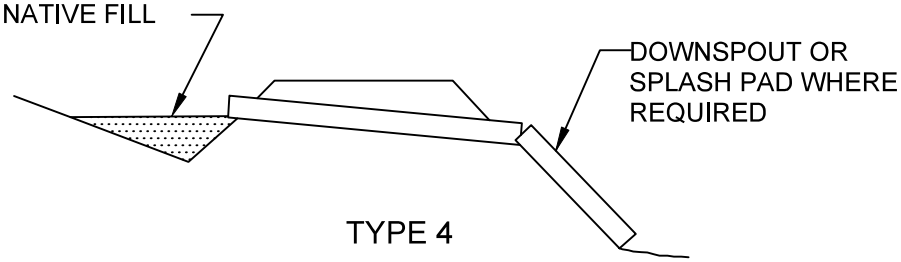
TYPE 1



TYPE 2



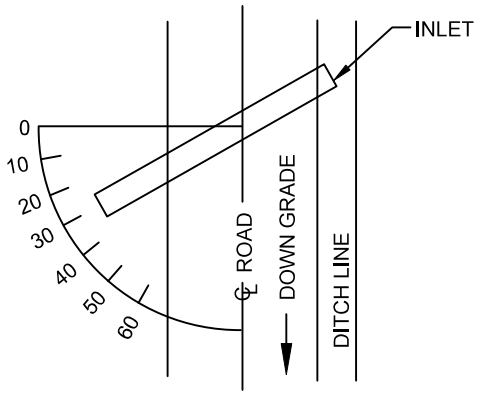
TYPE 3



TYPE 4

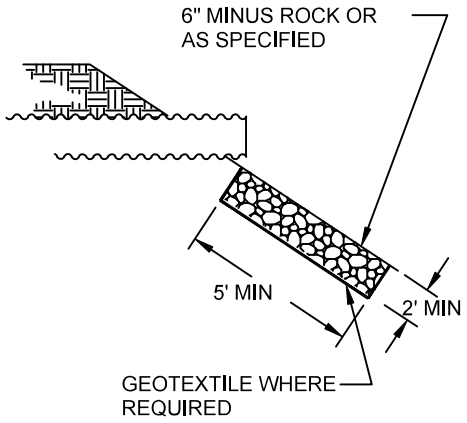
ALWAYS THINK SAFETY

CULVERT SKEW DIAGRAM



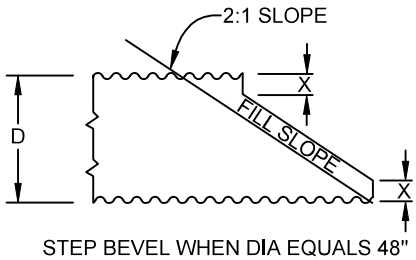
THE GRADE OF CROSS DRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH

TYPICAL SPLASH PAD



SPLASH PAD SHALL BE 1' WIDER THAN PIPE DIAMETER ON EACH SIDE

BEVELED END DETAIL



STEP BEVEL WHEN DIA EQUALS 48" OR LARGER X=1/4 D OR MFR STD

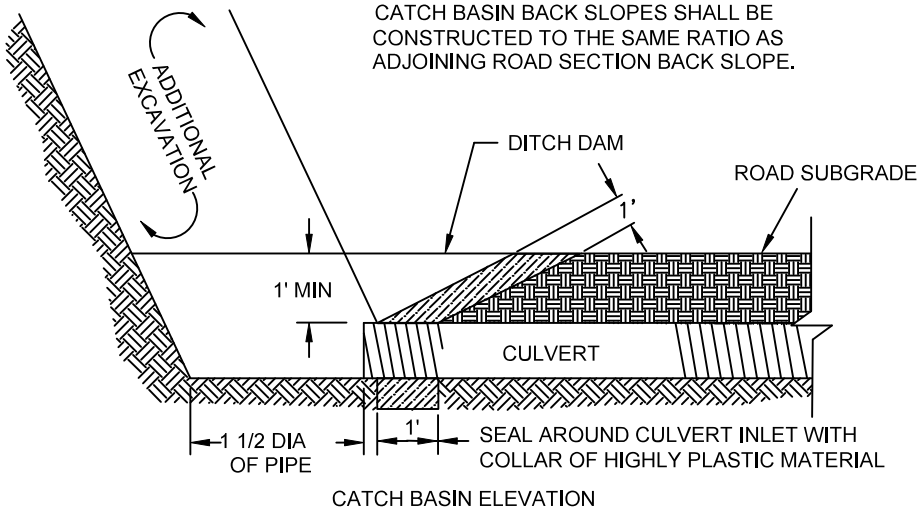
PIPE CULVERT INSTALLATION	
ENGINEER: NATHAN PRANGLEY	
DATE:10/15/2026	SHEET 4 OF 17

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

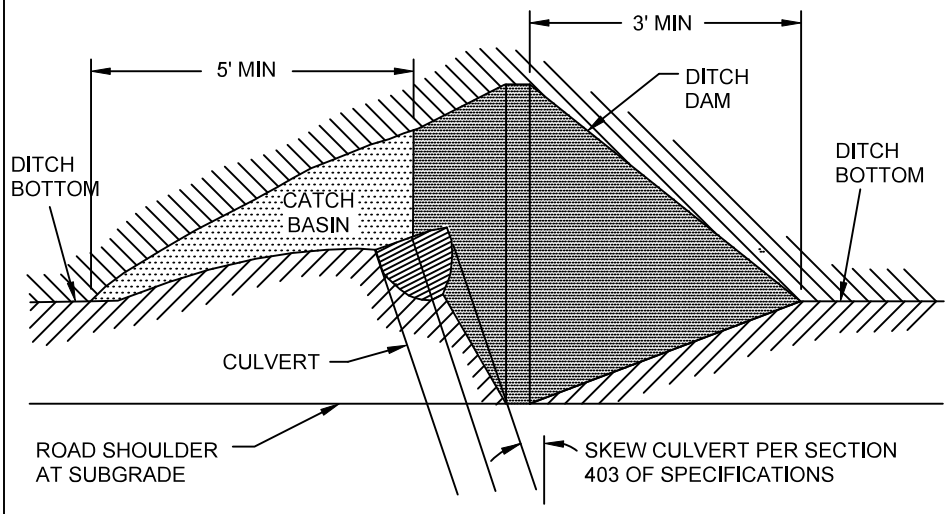
EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

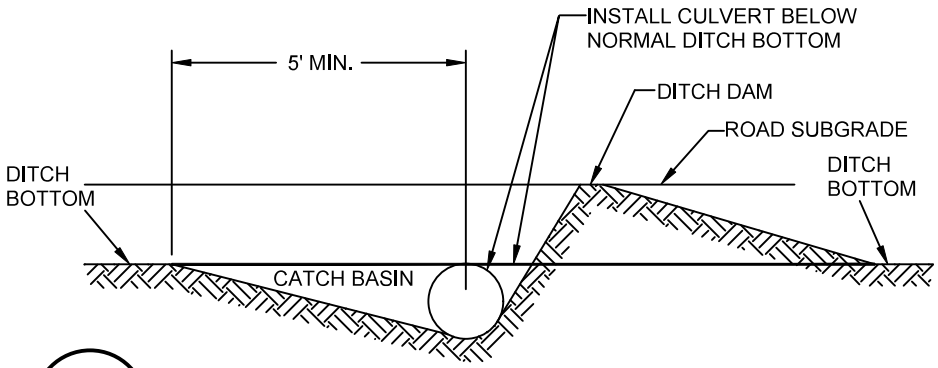
TYPICAL CATCH BASIN



CATCH BASIN ELEVATION



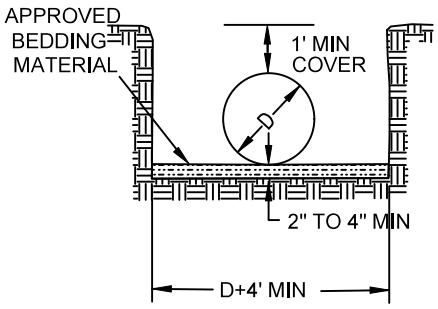
CATCH BASIN CROSS SECTION



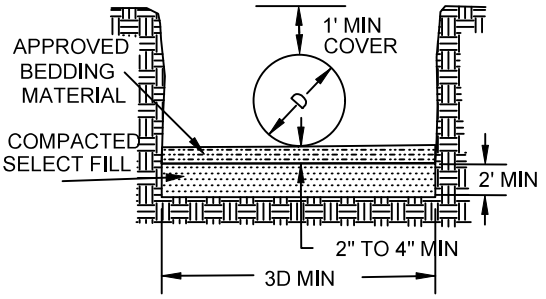
CATCH BASIN PLAN VIEW

ALWAYS THINK SAFETY

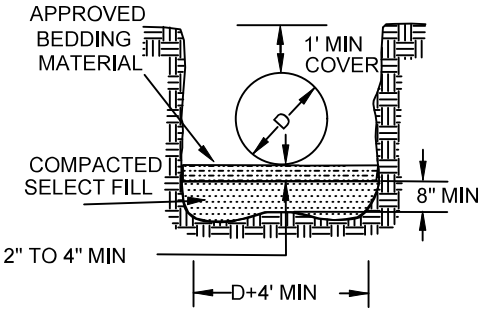
BEDDING OF CULVERTS



STABLE NATURAL GROUND



UNSTABLE GROUND AND OR COMPACTED FILL



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 EXHIBIT C TIMBER SALE ROAD SPECIFICATIONS.

3. MAINTAIN 8" MIN DEPTH BETWEEN HIGH POINT OF ROCK AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT BEDDING.

PIPE CULVERT INSTALLATION	
ENGINEER: NATHAN PRANGLEY	
DATE:10/15/2026	SHEET 5 OF 17

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

ROAD NUMBER	STATION TO STATION		RENOV.	IMPROV.	CONST.	EXISITING SURFACE TYPE	PROPOSED SURFACE TYPE	PROPOSED BASE COURSE		PROPOSED SURFACE COURSE		ROAD WIDTH	
								DEPTH	TYPE	DEPTH	TYPE	SUBGRADE	DITCH
27-3-26.3	0+00	105+60	X			ROCK	ROCK	EXISTING		EXISTING		16 FT.	2 FT.
27-3-26.4	33+80	50+40	X			ROCK	ROCK	EXISTING		4 IN.	1004B	16 FT.	2 FT.
27-3-26.4	50+40	82+90	X			ROCK	ROCK	EXISTING		SPOT ROCK	1004B	16 FT.	2 FT.
27-3-27.2	0+00	9+60	X			DIRT	DIRT	NONE		NONE		16 FT.	2 FT.
27-3-27.2	9+60	22+70			X	N/A	DIRT	NONE		NONE		16 FT.	2 FT.
27-3-27B	0+00	1+90			X	N/A	DIRT	NONE		NONE		16 FT.	2 FT.
27-3-27C	0+00	1+60			X	N/A	DIRT	NONE		NONE		16 FT.	2 FT.
27-3-35.1	0+00	18+60	X			ROCK	ROCK	EXISTING		SPOT ROCK	1004B	16 FT.	2 FT.
27-3-35.4	0+00	29+50	X			ROCK	ROCK	EXISTING		SPOT ROCK	1004B	16 FT.	2 FT.
27-3-35.9	0+00	11+80			X	N/A	ROCK	6 IN.	1004I	4 IN.	1004B	16 FT.	2 FT.
27-3-35A	0+00	0+90			X	N/A	ROCK	6 IN.	1004I	NONE		16 FT.	2 FT.
27-3-35F	0+00	2+00	X			ROCK	ROCK	6 IN.	1004I	NONE		16 FT.	2 FT.

ALWAYS THINK SAFETY

NOTES:
1. STATIONING MARKED WITH FLUORESCENT ORANGE TAGS
2. SEE EXHIBIT C TIMBER SALE ROAD SPECIFICATIONS FOR CRUSHED ROCK REQUIREMENTS

ROAD SUMMARY

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

ROAD NUMBER	LENGTH	CLEARING AND GRUBBING	BRUSHING	CLEAN OR ESTABLISH DITCH	EXCAVATION	EMBANKMENT	GRADING	COMPACTING
	STATIONS	ACRES	ACRES	STATIONS	CUBIC YARDS	CUBIC YARDS	STATIONS	STATIONS
27-3-26.3	105+60	1.53	0	105+60	0	0	105+60	105+60
27-3-26.4	49+10	0.61	0	49+10	174	126	49+10	49+10
27-3-27.2	22+70	2.29	0	22+70	928	857	22+70	22+70
27-3-27B	1+90	0.19	0	1+90	87	62	1+90	1+90
27-3-27C	1+60	0.36	0	1+60	292	244	1+60	1+60
27-3-35.1	18+60	0.68	0	18+60	0	0	18+60	18+60
27-3-35.4	29+50	0	1.52	29+50	0	0	29+50	29+50
27-3-35.9	11+80	1.22	0	11+80	1,136	1,006	11+80	11+80
27-3-35A	0+90	0.13	0	0+90	63	41	0+90	0+90
27-3-35F	2+00	0.46	0	2+00	45	30	2+00	2+00



NOTES:
1. ALL DISTANCES, ACREAGE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS

SUMMARY OF QUANTITIES

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

ROAD NUMBER	CRUSHED ROCK		CORRUGATED PIPE CULVERT (18 IN.)	CORRUGATED PIPE CULVERT (24 IN.)	CORRUGATED PIPE CULVERT (36 IN.)	CORRUGATED PIPE CULVERT (48 IN.)	CORRUGATED PIPE CULVERT (60 IN.)
	1004B	1004I					
	2 IN. MINUS	6 IN. JAW RUN					
	LOOSE CUBIC YARDS	LOOSE CUBIC YARDS	LINEAR FEET	LINEAR FEET	LINEAR FEET	LINEAR FEET	LINEAR FEET
27-3-26.3	80	60	280	80	0	60	40
27-3-26.4	580	110	160	0	40	0	0
27-3-27.2	10	0	0	0	40	0	0
27-3-27B	0	0	0	0	0	0	0
27-3-27C	0	0	0	0	0	0	0
27-3-35.1	130	70	80	0	0	0	0
27-3-35.4	170	0	0	0	0	0	0
27-3-35.9	290	660	80	0	0	0	0
27-3-35A	0	80	0	0	0	0	0
27-3-35F	0	50	0	0	0	0	0



NOTES:
1. ALL DISTANCE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS
2. CRUSHED ROCK ESTIMATES INCLUDE SPLASH PADS, PIPE CULVERT BEDDING MATERIAL, TRUCK TURN AROUNDS, TRUCK TURN OUTS AND LANDINGS
3. PIPE CULVERTS REQUIRING A BEVELED INLET OR OUTLET, ELBOW, SPLASH PAD, OR DOWNSPOUT ARE SO NOTED IN THE ROAD RENOVATION WORKLIST

SUMMARY OF QUANTITIES

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026

ROAD RENOVATION WORKLIST

MILE POST	DESCRIPTION
	27-3-26.3
0+00	BEGIN RENOVATION AT JUNCTION OF FS25 (CAVITT CREEK MAINLINE) AND ROAD NO. 27-3-26.3 BEGIN PULLING DITCHES, CLEANING CATCH BASINS, GRADING AND COMPACTING REMOVE FAILED 18 IN. PIPE CULVERT AND GRADE DITCH/CHANNEL TO STA. 0+80 PLACE JAW RUN (SPEC. NO. 1004I) AS SUBGRADE MATERIAL AND 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AS SURFACING MATERIAL TO RE-ESTABLISH AND MAINTAIN EXISTING GRADE
0+80	INSTALL 60 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL EXCAVATE AND ARMOR CATCH BASIN WITH JAW RUN (SPEC NO. 1004I) TO PROVIDE SUITABLE PATH FOR WATER TO ENTER RE-ALIGNED CATCH BASIN AND PIPE CULVERT ARMOR FILL SLOPE FAILURE WITH REMOVED SUBGRADE MATERIAL AND JAW RUN (SPEC NO. 1004I)
20+40	JUNCTION LEFT ROAD NO. 27-3-26.5
28+50	ENTER BLM PROPERTY
38+60	RENOVATE TURN OUT LEFT BEGIN RIGHT OF WAY CLEARING CLEARING LIMITS MARKED WITH RIGHT OF WAY TAGS
49+50	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
51+30	INSTALL 24 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
53+30	RENOVATE TURN OUT LEFT
61+20	JUNCTION RIGHT ROAD NO. 27-3-27.0 INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
66+60	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
74+20	JUNCTION RIGHT ROAD NO. 27-3-27.1 INSTALL 48 IN. X 60 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
78+20	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL



NOTES:
1. ALL ROAD RENOVATION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
2. EXISTING AND TO BE CONSTRUCTED STRUCTURES ARE SO NOTED ABOVE AT APPROXIMATE STATIONS
3. ALL DISTANCE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

RENOVATION WORKLIST

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 9 OF 17

ROAD RENOVATION WORKLIST

MILE POST	DESCRIPTION
	27-3-26.3 CONTINUED
80+70	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
84+00	INSTALL 24 IN. X 40 FT. PIPE CULVERT W/ SPLASH PAD BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
89+70	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
90+90	PLACE JAW RUN (SPEC. NO. 1004I) AS SUBGRADE MATERIAL AND 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AS SURFACING MATERIAL TO RE-ESTABLISH THROUGH FILL ROADBED INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
92+40	JUNCTION RIGHT 27-3-27B NEW CONSTRUCTION RENOVATE TURN OUT/ TRUCK TURN AROUND LEFT
97+60	JUNCTION LEFT 27-3-27C NEW CONSTRUCTION
105+60	RENOVATE DIRT LANDING RIGHT CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS END RENOVATION
	27-3-26.4
33+80	BEGIN RENOVATION AT JUNCTION OF ROADS NO. 27-3-35.3 AND 27-3-26.4 BEGIN PULLING DITCHES, CLEANING CATCH BASINS, GRADING AND COMPACTING BEGIN RIGHT OF WAY CLEARING CLEARING LIMITS MARKED WITH RIGHT OF WAY TAGS BEGIN 4 INCH LIFT OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT W/ROLLER
42+70	RE-ESTABLISH SPLASH PAD AND ARMOR FILL SLOPE OF EXISTING PIPE CULVERT
42+90	JUNCTION LEFT ROAD NO. 27-3-35.8
50+40	JUNCTION RIGHT ROAD NO. 27-3-35F END 4 INCH LIFT OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT W/ROLLER BEGIN SPOT ROCKING WITH ALLOWANCE OF 150 CUBIC YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT W/ROLLER
62+70	JUNCTION RIGHT ROAD NO. 27-3-35.1 RENOVATE LANDING AT JUNCTION SURFACE W/ 50 YARDS OF JAW RUN (SPEC. NO. 1004I) CRUSHED ROCK
65+80	INSTALL 36 IN. X 40 FT. PIPE CULVERT W/ SPLASH PAD BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
68+20	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL

ALWAYS THINK SAFETY

NOTES:
1. ALL ROAD RENOVATION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
2. EXISTING AND TO BE CONSTRUCTED STRUCTURES ARE SO NOTED ABOVE AT APPROXIMATE STATIONS
3. ALL DISTANCE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

RENOVATION WORKLIST

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 10 OF 17

ROAD RENOVATION WORKLIST

MILE POST	DESCRIPTION
	27-3-26.4 CONTINUED
70+20	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
72+60	RENOVATE TURN OUT/LANDING LEFT JUNCTION RIGHT ROAD NO. 27-3-35.6 *NOTE: RENOVATION OF ROAD NO. 27-3-26.4 (STA. 72+60 TO STA. 82+90) IS SEASONALLY RESTRICTED MARCH 1 - AUGUST 31 (PEREGRINE FALCON)*
75+60	RENOVATE TURN OUT TO ACCOMMODATE CABLE LANDING SURFACE LANDING WITH 50 YARDS OF JAW RUN (SPEC. NO. 1004I) CRUSHED ROCK
80+10	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
82+10	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
82+90	JUNCTION LEFT 27-3-35A NEW CONSTRUCTION END RENOVATION
	27-3-27.2
0+00	BEGIN RENOVATION AT END LANDING OF ROAD NO. 27-3-26.5 BEGIN REALIGNMENT OF ROAD NO. 27-3-27.2 AS SPECIFIED ON SHEET 13 BEGIN CLEARING, GRUBBING, PULLING DITCHES, GRADING AND COMPACTING ROAD TO BE WATERBARRED AND BLOCKED IN ACCORDANCE WITH SECTION 3300 EXHIBIT D SPEC.
3+70	ENTER BLM PROPERTY CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS
5+50	BEGIN DROPPING GRADE, EXCAVATING CUT SLOPE AND DRIFTING MATERIAL TO RE-ESTABLISH 16 FT. ROAD BED
6+30	ESTABLISH WASTE AREA/TURN OUT LEFT CLEARING LIMITS MARKED WITH ORANGE FLUORESCENT TAGS
9+60	END RENOVATION BEGIN 27-3-27.2 NEW CONSTRUCTION AS SPECIFIED ON SHEET 14
	27-3-35.1
0+00	BEGIN RENOVATION AT JUNCTION OF ROADS NO. 27-3-26.4 AND 27-3-35.1 BEGIN PULLING DITCHES, CLEANING CATCH BASINS, GRADING AND COMPACTING BEGIN SPOT ROCKING WITH ALLOWANCE OF 100 YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT W/ROLLER

ALWAYS THINK SAFETY

NOTES:
1. ALL ROAD RENOVATION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
2. EXISTING AND TO BE CONSTRUCTED STRUCTURES ARE SO NOTED ABOVE AT APPROXIMATE STATIONS
3. ALL DISTANCE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

RENOVATION WORKLIST

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 11 OF 17

ROAD RENOVATION WORKLIST

MILE POST	DESCRIPTION
	27-3-35.1 CONTINUED
5+40	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL JUNCTION LEFT ROAD NO. 27-3-35.4 BEGIN CLEARING AND GRUBBING CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS
8+00	INSTALL 18 IN. X 40 FT. PIPE CULVERT BED W/ 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT BACKFILL
11+70	RENOVATE TURN OUT/TRUCK TURN AROUND LEFT SURFACE W/ 20 YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK
18+60	RENOVATE 100 FT. X 100 FT. END LANDING SURFACE W/ 100 YARDS OF JAW RUN (SPEC. NO. 1004I) CRUSHED ROCK END RENOVATION
	27-3-35.4
	NOTE: RENOVATION OF ROAD NO. 27-3-35.4 (STA. 0+00 TO STA. 29+50) IS SEASONALLY RESTRICTED FEBRUARY 15 - JULY 31 (GREAT BLUE HERON)
0+00	BEGIN RENOVATION AT JUNCTION OF ROADS NO. 27-3-35.1 AND 27-3-35.4 BEGIN BRUSHING, PULLING DITCHES, CLEANING CATCH BASINS, GRADING AND COMPACTING BEGIN SPOT ROCKING WITH ALLOWANCE OF 120 YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK AND COMPACT W/ROLLER
3+70	BEGIN RIGHT OF WAY CLEARING CLEARING LIMITS MARKED WITH RIGHT OF WAY TAGS
7+30	JUNCTION RIGHT ROAD NO. 27-3-35.5
9+60	RENOVATE TURN OUT LEFT SURFACE W/ 30 YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK
29+50	RENOVATE TURN OUT RIGHT SURFACE W/ 20 YARDS OF 2 INCH MINUS (SPEC. NO. 1004B) CRUSHED ROCK JUNCTION RIGHT 27-3-35.9 NEW CONSTRUCTION END RENOVATION
	27-3-35F
0+00	BEGIN RENOVATION AT JUNCTION OF ROADS NO. 27-3-26.4 AND 27-3-35F BEGIN PULLING DITCHES, GRADING AND COMPACTING ROAD TO BE BLOCKED IN ACCORDANCE WITH SECTION 3300 EXHIBIT D SPEC.
2+00	RENOVATE 100 FT. X 100 FT. LANDING SURFACE W/ 50 YARDS OF JAW RUN (SPEC. NO. 1004I) CRUSHED ROCK END RENOVATION

ALWAYS THINK SAFETY

NOTES:
1. ALL ROAD RENOVATION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
2. EXISTING AND TO BE CONSTRUCTED STRUCTURES ARE SO NOTED ABOVE AT APPROXIMATE STATIONS
3. ALL DISTANCE AND QUANTITIES ARE ESTIMATES AND NOT PAY ITEMS
4. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

RENOVATION WORKLIST

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 12 OF 17

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

LANDOWNER RECEIVED AND REVIEWED

SIGNATURE: _____
SENECA JONES
TIMBER CO. (SJTC)

TITLE: _____

DATE: _____

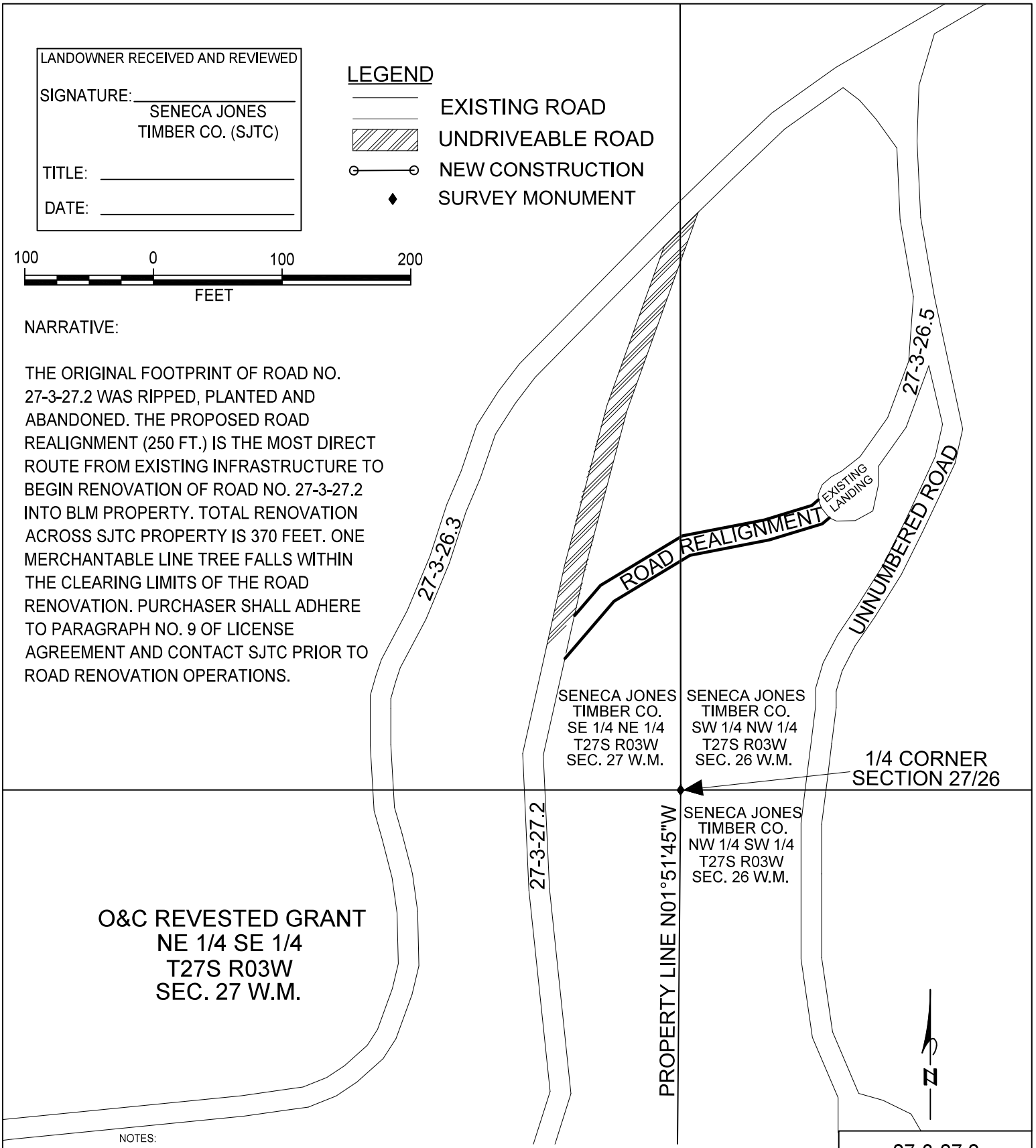
LEGEND

- EXISTING ROAD
- UNDRIVEABLE ROAD
- NEW CONSTRUCTION
- SURVEY MONUMENT

100 0 100 200
FEET

NARRATIVE:

THE ORIGINAL FOOTPRINT OF ROAD NO. 27-3-27.2 WAS RIPPED, PLANTED AND ABANDONED. THE PROPOSED ROAD REALIGNMENT (250 FT.) IS THE MOST DIRECT ROUTE FROM EXISTING INFRASTRUCTURE TO BEGIN RENOVATION OF ROAD NO. 27-3-27.2 INTO BLM PROPERTY. TOTAL RENOVATION ACROSS SJTC PROPERTY IS 370 FEET. ONE MERCHANTABLE LINE TREE FALLS WITHIN THE CLEARING LIMITS OF THE ROAD RENOVATION. PURCHASER SHALL ADHERE TO PARAGRAPH NO. 9 OF LICENSE AGREEMENT AND CONTACT SJTC PRIOR TO ROAD RENOVATION OPERATIONS.



NOTES:

1. CENTERLINE MARKED WITH ORANGE TRUCK ROAD FLAGGING
2. CLEARING LIMITS MARKED WITH RIGHT-OF-WAY TAGS AND ORANGE CANDY STRIPED FLAGGING
4. ROAD TO REMAIN NATIVE SURFACE
5. ALL ROAD CONSTRUCTION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
6. ROAD TO BE WATERBARRED AND BLOCKED IN ACCORDANCE WITH SECTION 3300 EXHIBIT D SPECIFICATIONS
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

ALWAYS THINK SAFETY

27-3-27.2
RENOVATION PLAT

ENGINEER: NATHAN PRANGLEY

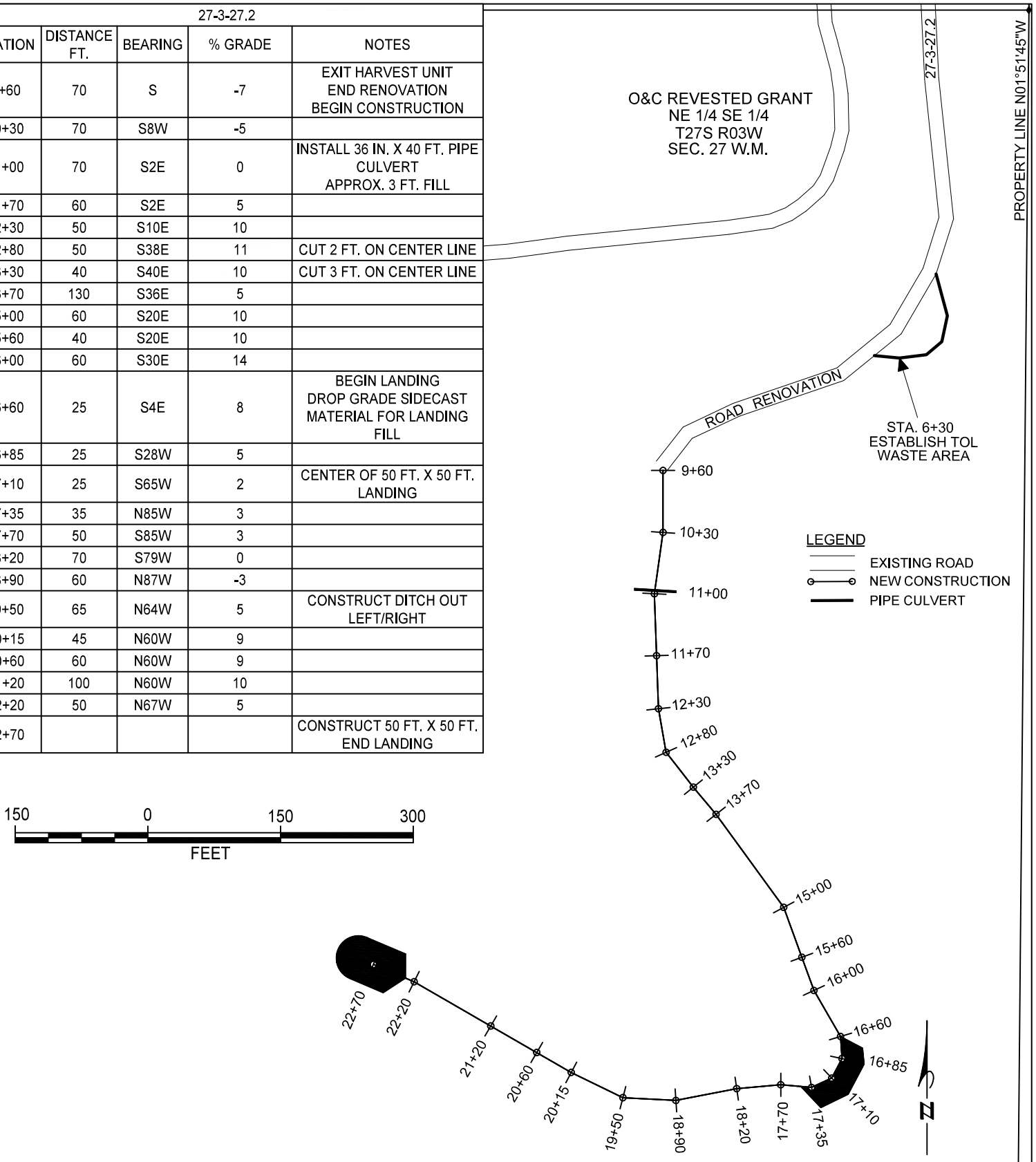
DATE:10/15/2026 | SHEET 13 OF 17

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

27-3-27.2				
STATION	DISTANCE FT.	BEARING	% GRADE	NOTES
9+60	70	S	-7	EXIT HARVEST UNIT END RENOVATION BEGIN CONSTRUCTION
10+30	70	S8W	-5	
11+00	70	S2E	0	INSTALL 36 IN. X 40 FT. PIPE CULVERT APPROX. 3 FT. FILL
11+70	60	S2E	5	
12+30	50	S10E	10	
12+80	50	S38E	11	CUT 2 FT. ON CENTER LINE
13+30	40	S40E	10	CUT 3 FT. ON CENTER LINE
13+70	130	S36E	5	
15+00	60	S20E	10	
15+60	40	S20E	10	
16+00	60	S30E	14	
16+60	25	S4E	8	BEGIN LANDING DROP GRADE SIDECAST MATERIAL FOR LANDING FILL
16+85	25	S28W	5	
17+10	25	S65W	2	CENTER OF 50 FT. X 50 FT. LANDING
17+35	35	N85W	3	
17+70	50	S85W	3	
18+20	70	S79W	0	
18+90	60	N87W	-3	
19+50	65	N64W	5	CONSTRUCT DITCH OUT LEFT/RIGHT
20+15	45	N60W	9	
20+60	60	N60W	9	
21+20	100	N60W	10	
22+20	50	N67W	5	
22+70				CONSTRUCT 50 FT. X 50 FT. END LANDING



NOTES:
1. CENTERLINE MARKED WITH ORANGE TRUCK ROAD FLAGGING
2. CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS
3. ROAD TO REMAIN NATIVE SURFACE
4. ALL ROAD CONSTRUCTION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
5. ROAD TO BE WATERBARRED AND BLOCKED IN ACCORDANCE WITH SECTION 3300 EXHIBIT D SPECIFICATIONS
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

ALWAYS THINK SAFETY

27-3-27.2

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 14 OF 17

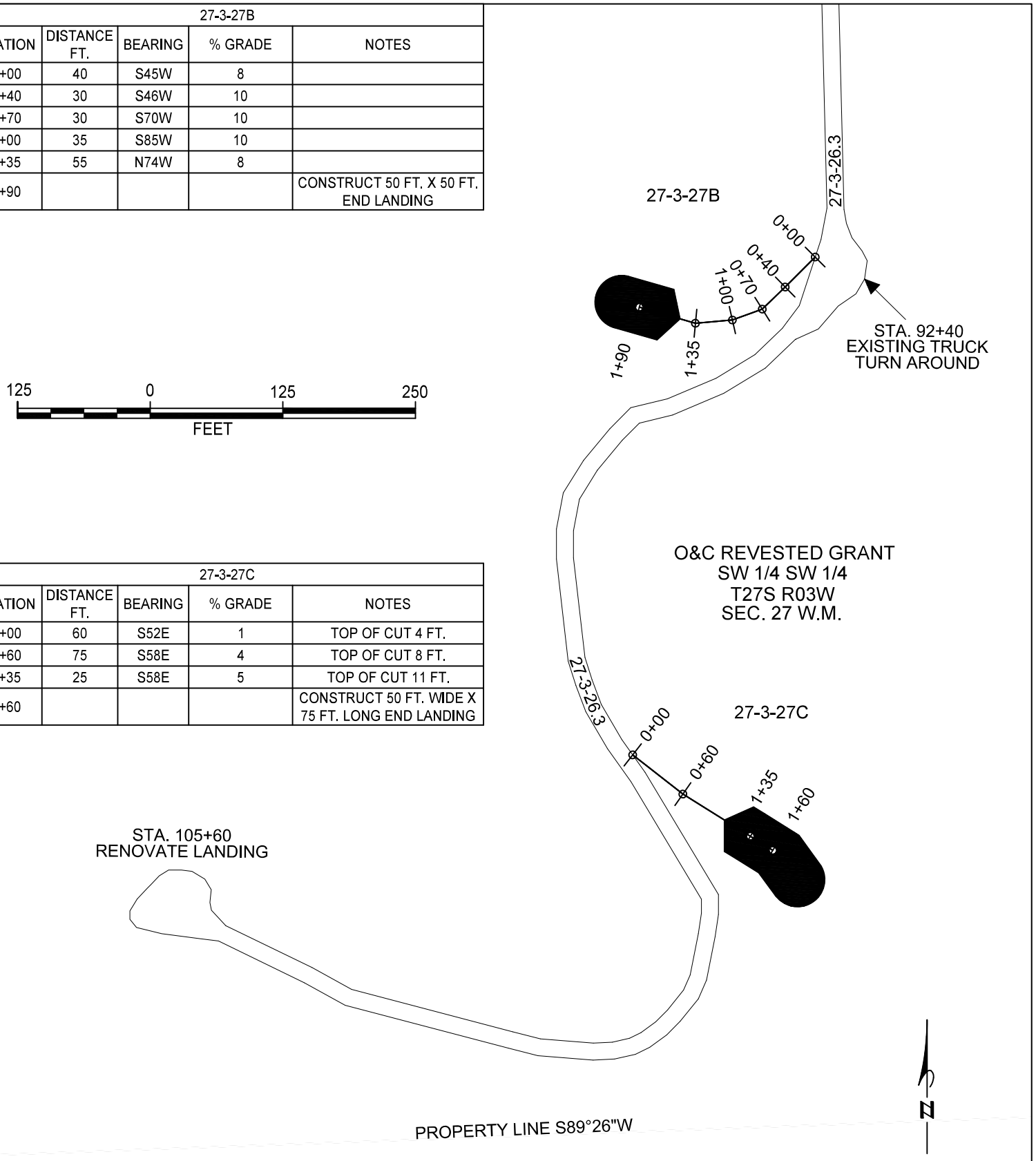
UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ROSEBURG DISTRICT

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

27-3-27B				
STATION	DISTANCE FT.	BEARING	% GRADE	NOTES
0+00	40	S45W	8	
0+40	30	S46W	10	
0+70	30	S70W	10	
1+00	35	S85W	10	
1+35	55	N74W	8	
1+90				CONSTRUCT 50 FT. X 50 FT. END LANDING

27-3-27C				
STATION	DISTANCE FT.	BEARING	% GRADE	NOTES
0+00	60	S52E	1	TOP OF CUT 4 FT.
0+60	75	S58E	4	TOP OF CUT 8 FT.
1+35	25	S58E	5	TOP OF CUT 11 FT.
1+60				CONSTRUCT 50 FT. WIDE X 75 FT. LONG END LANDING



NOTES:
1. CENTERLINE MARKED WITH ORANGE TRUCK ROAD FLAGGING
2. CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS
4. ROADS TO REMAIN NATIVE SURFACE
5. ALL ROAD CONSTRUCTION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
6. ROADS TO BE SUBSOILED IN ACCORDANCE WITH SECTION 44(C) SPECIAL PROVISIONS
7. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

ALWAYS THINK SAFETY

27-3-27B
27-3-27C

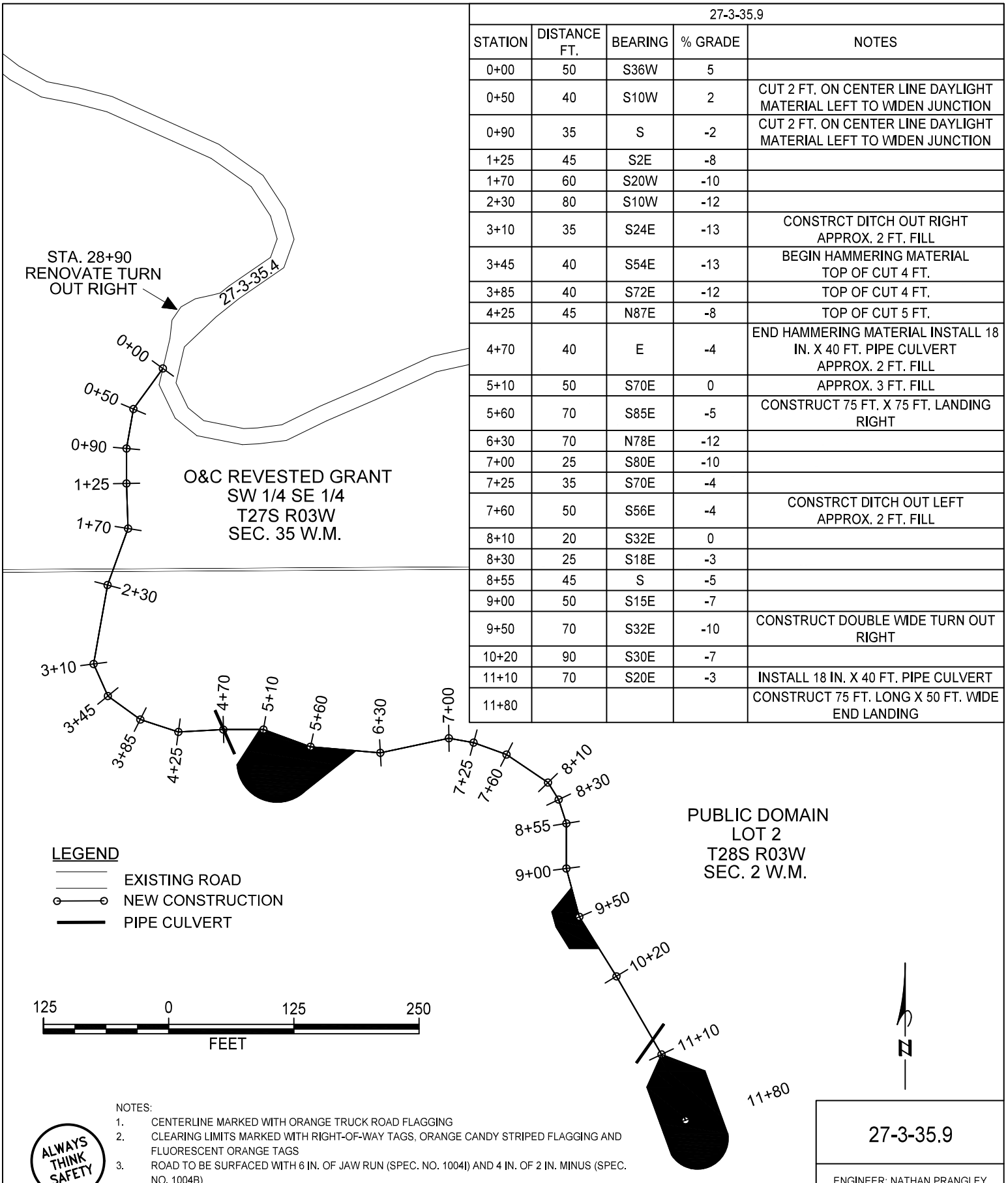
ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 15 OF 17

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003



27-3-35.9				
STATION	DISTANCE FT.	BEARING	% GRADE	NOTES
0+00	50	S36W	5	
0+50	40	S10W	2	CUT 2 FT. ON CENTER LINE DAYLIGHT MATERIAL LEFT TO WIDEN JUNCTION
0+90	35	S	-2	CUT 2 FT. ON CENTER LINE DAYLIGHT MATERIAL LEFT TO WIDEN JUNCTION
1+25	45	S2E	-8	
1+70	60	S20W	-10	
2+30	80	S10W	-12	
3+10	35	S24E	-13	CONSTRCT DITCH OUT RIGHT APPROX. 2 FT. FILL
3+45	40	S54E	-13	BEGIN HAMMERING MATERIAL TOP OF CUT 4 FT.
3+85	40	S72E	-12	TOP OF CUT 4 FT.
4+25	45	N87E	-8	TOP OF CUT 5 FT.
4+70	40	E	-4	END HAMMERING MATERIAL INSTALL 18 IN. X 40 FT. PIPE CULVERT APPROX. 2 FT. FILL
5+10	50	S70E	0	APPROX. 3 FT. FILL
5+60	70	S85E	-5	CONSTRUCT 75 FT. X 75 FT. LANDING RIGHT
6+30	70	N78E	-12	
7+00	25	S80E	-10	
7+25	35	S70E	-4	
7+60	50	S56E	-4	CONSTRCT DITCH OUT LEFT APPROX. 2 FT. FILL
8+10	20	S32E	0	
8+30	25	S18E	-3	
8+55	45	S	-5	
9+00	50	S15E	-7	
9+50	70	S32E	-10	CONSTRUCT DOUBLE WIDE TURN OUT RIGHT
10+20	90	S30E	-7	
11+10	70	S20E	-3	INSTALL 18 IN. X 40 FT. PIPE CULVERT
11+80				CONSTRUCT 75 FT. LONG X 50 FT. WIDE END LANDING

ALWAYS THINK SAFETY

NOTES:
1. CENTERLINE MARKED WITH ORANGE TRUCK ROAD FLAGGING
2. CLEARING LIMITS MARKED WITH RIGHT-OF-WAY TAGS, ORANGE CANDY STRIPED FLAGGING AND FLUORESCENT ORANGE TAGS
3. ROAD TO BE SURFACED WITH 6 IN. OF JAW RUN (SPEC. NO. 1004I) AND 4 IN. OF 2 IN. MINUS (SPEC. NO. 1004B)
4. ALL ROAD CONSTRUCTION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

27-3-35.9

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 16 OF 17

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

EXHIBIT C

CAVITT CRUMBS
CONTRACT # ORR04-TS-2027.0003

27-3-35A				
STATION	DISTANCE FT.	BEARING	% GRADE	NOTES
0+00	30	N24E	5	
0+30	25	N	6	
0+55	35	N35W	4	
0+90				CONSTRUCT 50 FT. WIDE X 75 FT. LONG STEP UP LANDING

O&C REVESTED GRANT
SE 1/4 NE 1/4
T27S R03W
SEC. 35 W.M.



NOTE:

CONSTRUCTION OF ROAD 27-3-35A IS SEASONALLY RESTRICTED MARCH 1 - AUGUST 31 (PEREGRINE FALCON)

LEGEND

EXISTING ROAD

UNDRIVEABLE ROAD

NEW CONSTRUCTION

N

ALWAYS THINK SAFETY

NOTES:
1. CENTERLINE MARKED WITH ORANGE TRUCK ROAD FLAGGING
2. CLEARING LIMITS MARKED WITH FLUORESCENT ORANGE TAGS
4. ROAD TO BE SURFACED WITH 6 IN. OF JAW RUN (SPEC. NO. 1004I)
5. ALL ROAD CONSTRUCTION SHALL BE COMPLETED AND APPROVED PRIOR TO LOG HAUL
5. ROAD TO BE BLOCKED IN ACCORDANCE WITH SECTION 3300 EXHIBIT D SPECIFICATIONS
6. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH OSHA SAFETY REQUIREMENTS

27-3-35A

ENGINEER: NATHAN PRANGLEY

DATE:10/15/2026 | SHEET 17 OF 17