COOS BAY DISTRICT OFFICE MYRTLEWOOD FIELD OFFICE

SALE DATE: May 23, 2018 SALE TIME: 10:00 a.m.

SCALE SALE LOCKED GATES - KEY REQUIRED

SALE NO.: ORC00-TS-2018.0036, CHETCO SALVAGE SET-ASIDE SALE

CURRY COUNTY: OREGON: PD: ORAL AUCTION: Bid deposit required: \$19,900

All timber designated for cutting on: T. 39 S., R. 13 W., Sec. 1, Lots 15,16,17,18, Sec. 2, Lot 1, Sec. 11, E1/2 NE1/4, Sec. 13, SW1/4 SE1/4, Sec. 14, Lot 2, Sec. 15, Lot 1, Lot 9, Sec. 22, E1/2SW1/4, Sec. 25, N1/2NW1/4, SE1/4NW1/4, Sec. 26, NW1/4, & Sec. 27, E1/2NW1/4 Will. Mer.

Approx. No. Merch. Trees	Est. Vol. MBF 32' Log	Species	Est. Vol. MBF 16' Log	Appraised Price Per MBF	Estimated Vol. Times Appraised Price
7,189	1,531	Douglas-fir	2,001	\$99.20	\$198,499.20
7,189	1,531	Total	2,001		\$198,499.20

THIS TIMBER SALE HAS BEEN CRUISED, APPRAISED, AND ADVERTISED BASED UPON SCRIBNER BOARD FOOT MEASURE (16 FOOT LOG). THE MINIMUM BID FIGURES SHOWN BY SPECIES ARE DOLLARS PER THOUSAND BOARD FEET (MBF). THE MINIMUM BID INCREMENT WILL BE \$0.50 PER MBF. SCRIBNER BOARD FOOT VOLUMES (32 FOOT LOG) BY SPECIES ARE DISPLAYED FOR INFORMATIONAL PURPOSES.

<u>LOG EXPORT AND SUBSTITUTION</u>: 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.

<u>LOG EXPORT AND SUBSTITUTION RESTRICTIONS</u>: 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.

<u>CRUISE INFORMATION</u>: With respect to merchantable trees of all species in all cruise strata: the average DBHOB is 19.2 inches, the average gross merchantable log contains 102 bd. ft., the total gross volume is approximately 2,285 thousand bd. ft., and 81 % recovery is expected. All 100% of the estimated volume is salvage. The average DBHOB for the dominant species of Douglas-fir is 19.2 inches, and the average gross merchantable log contains 102 bd. ft. The following cruise methods were used for volume determination:

<u>VARIABLE PLOT</u>: Timber volumes for all tree species are based on a variable plot cruise. Using a 20 basal area factor (BAF), 91 plots were measured and 54 trees were randomly selected to be sampled. The sample trees were cruised and their volumes computed using form class tables for estimating board foot volumes of trees in 16-foot logs. The volumes are then expanded to a total estimated sale volume.

<u>CUTTING AREA</u>: Twelve units totaling approximately 139 acres must be salvage cut and 2 acres of Right of Way must be cut. Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

ACCESS: Access to the sale area is provided via: United States highways, Curry County roads, privately controlled roads, and Government controlled roads. Please contact South Coast Lumber Company, PO Box 670, Brookings, OR. 97415, (541) 469-3898 for access to the sale area via the Ransom Ridge or Hazel Camp Mainlines. A 72 hour notice and a refundable \$100 key deposit will be required.

<u>DIRECTIONS TO SALE AREA:</u> From Brookings, Oregon, turn onto North Bank Chetco River Road and travel approximately 5.1 miles. Turn north onto Gardner Ridge County Road and travel 4.5 miles. Turn left onto Ransom Ridge Road. Travel another 2.3 miles to Hazel Camp Road. Refer to Exhibits A and A-1 for unit locations.

<u>ROAD USE, ROCKWEAR & MAINTENANCE</u>: Refer to Exhibit E Summary attached. Operator maintenance required on 1.2 miles of road. The following fees are estimated and will be adjusted to actual net scale volumes determined pursuant to Exhibit B and the rates determined pursuant to Exhibit E of this contract:

Rockwear & Maintenance Fees Payable to Chetco Resources, LLC: \$19,487.69 (estimated) Road Use Fees Payable to Chetco Resources, LLC: \$5,852.00 (estimated)

ROAD CONSTRUCTION: Road Construction estimates include the following:

New Construction:

29.11 stations

Road Renovation:

220.70 stations

Aggregate (All quantities are truck measurement):

3" minus hardrock: <u>10 L.C.Y.</u> 1.5"- 0"minus hardrock: 10 L.C.Y

Drainage:

12" CPP: <u>40'</u> 18" CMP: <u>95'</u> Culvert Markers: 2

Soil Stabilization:

Dry Seed, fertilizer, & mulch: 3.6 acres (Pre-haul)
Dry Seed, fertilizer, & mulch: 2.9 acres (Post-haul)

Roadside Brushing:

0.70 acres

Road Decommissioning:

Normal Decommissioning: 63.36 stations

Earthen Barriers: 8

<u>DURATION OF CONTRACT</u>: Shall be 18 months for cutting and removal of timber. The contract will contain special stipulations regarding logging, road construction, road use and maintenance, fire prevention, hazard reduction and logging residue reduction, log export and substitution, log scaling is required under the terms of the contract (See Exhibit B), equal opportunity in employment, cultural resource protection, and sensitive, threatened, or endangered plants or animals.

<u>SPECIAL PROVISIONS</u>: This list is not comprehensive. Please review the entire contract.

- 1. This is a Scale for Payment Sale; please refer to the Exhibit B of the contract for specific requirements such as log branding on all logs, hauling restrictions, and merchantability specifications.
- 2. License agreement is required with Chetco Resources, LLC, RWA-C-706. A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required for this license agreement.
- 3. Please contact South Coast Lumber Company, PO Box 670, Brookings, OR. 97415, (541) 469-3898 for access to the sale area via the 40-13-2.0 (Ransom Ridge) or 39-13-25.0 (Hazel Camp) Mainlines. A 72 hour notice and a refundable \$100 key deposit will be required.
- 4. All equipment must be washed prior to entry into the contract area to control the spread of noxious weeds.
- 5. Road Nos. 39-13-2.5, 39-13-13.1, 39-13-13.4, 39-13-26.2, 39-13-26.1, 39-13-25.7, 39-13-25.6, and 39-13-27.9 are restricted to dry-season haul (June 1 through October 15) only. The 39-13-25.0 road is approved for wet season haul.
- 6. No trees shall be felled into the Reserve Area or Reserve Area Basal Area Retention, as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary.
- 7. Lift trees and intermediate support trees may be necessary.
- 8. One-end suspension required in cable and ground-based yarding areas.
- 9. A forwarder, log loader, tractor, or rubber tire skidder may be used to yard logs within the Ground-Based Yarding areas. Ground-based equipment are restricted to areas with slopes less than 35%, except when using previously constructed trails or accessing isolated ground-based harvest areas requiring short trails over steeper pitches.
- 10. Purchaser shall verify all landing locations and stake required clearing limits prior to construction.
- 11. Shape and restore all landings to a natural contour to prevent erosion.
- 12. Seed and fertilize all landings, road cuts and fills, and waste areas.
- 13. Soil stabilization, water bar construction, road decommissioning, and road barrier construction shall be conducted after the completion of harvest activities but no later than October 15.
- 14. BLM will assume supervisory responsibility for disposal of logging slash.

- 15. Personnel supplied by the Purchaser for landing pile and machine pile burning shall include four (4) people qualified at a minimum, as Type-II Firefighters (FFT2).
- 16. Machine piling or scattering of logging slash are required at all landing areas, some ground-based harvest areas, and along all roads.
- 17. All trees designated for cutting shall be cut concurrently with all other timber.
- 18. Seasonal Restriction apply to Unit 3. Road construction, tree felling, and logging operations are prohibited from March 1 through August 5th. Daily timing restrictions apply between August 6 and September 15th.
- 19. In all harvest units as shown on Exhibit A, all trees three (3) inches or larger diameter breast height outside bark (DBHOB) and all merchantable trees designated for cutting shall be felled and whole tree yarded where feasible.
- 20. A traffic control plan will be needed. It must address signage and flaggers as well as other safety related items.
- 21. Eleven (11) bearing trees will be cut on a bevel, the lowest part not less than eighteen (18) inches above the scribe marks and in such a manner that will not mutilate the markings identifying the bearing trees. The purchaser shall treat all such bearing tree stumps during the dry season of the year.
- 22. Spill Kits are required to be on site during road construction and logging operations.
- 23. Purchaser will be required to fell, buck, and deck logs within the Right-of-Way on private property according to the terms and conditions of the License Agreement. The Purchaser shall contact South Coast Lumber's office 30 days prior to cutting any R/W timber for current log lengths and diameter specifications.
- 24. To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Section 27 of the contract.

Seasonal Restriction Matrix ORC00-TS-2018.0036 CHETCO SALVAGE Timber Sale Prospectus

*Restricted periods are Shaded; Conditional periods are hatched; See Exhibit A for portions of units affected.

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			Jan]	Feb	I	Mar	I	\pr	N	A ay	J	une	J	luly	I	Aug	S	Sept		Oct	I	Nov		Dec
	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
	Road Construction, Renovation, or Improvement Work ¹																								
	Hauling ¹																								
	Hauling on approved rocked roads ⁴																								
General All Units	Ground based yarding ³											25 %													
Unit 3	Seasonal Restriction Area (NSO & MM) ⁵															5 th									

¹Wet season restrictions may be shortened or extended depending on weather conditions.

² Bark slip seasonal restrictions may be conditionally waived upon written request and Authorized Officer approval. Strict compliance with damage provision required for continued operations.

³ Ground based yarding restricted to periods when soil moisture levels are below 25% as determined by the Authorized Officer.

⁴ Wet season haul on rocked roads may be suspended during periods of heavy rain (>1" in 24 hours).

⁵In the Seasonal Restriction Area (NSO & MM), shown on Exhibit A, falling, yarding, and new road construction operations are prohibited in the period between March 1 and August 5. In addition, a daily timing restriction confines operations to the period from two hours after sunrise to two hours before sunset between August 6 and September 15 of the same calendar year, both days inclusive.

SCHEDULE I

Sec 41. TIMBER RESERVED FROM CUTTING. The following timber on the Contract Area, shown on Exhibit A, which is attached hereto and made a part hereof, 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 in the Reserve Area or Reserve Area Basal Area Retention, as shown on Exhibit A, and all blazed, orange painted and/or posted trees which are on or mark the boundaries of the reserve areas, except approximately twenty one (21) Douglas –fir trees marked for cutting heretofore by the Government with blue paint above and below stump height in the Reserve Area adjacent to Units 1, 5, & 6, as shown on Exhibit A.
- b. Approximately forty six (46) trees marked with an orange painted "W" above and an orange blaze below stump height in Units 1, 2, 3, and 10 as shown on Exhibit A. These trees are selected wildlife trees and are specially valued as a component of the Wildlife Habitat Management program. Selected wildlife trees damaged or destroyed by the Purchaser shall be valued for purposes of determining damages at either current market value, or contract price, whichever is greater, of the merchantable volume plus the cost to replace the damaged or destroyed trees. When selected wildlife trees are determined to be danger trees, written approval to cut such trees shall be obtained from the Authorized Officer conforming to all requirements of Section 8 of this contract.

Sec 42. SPECIAL PROVISIONS. Purchaser shall comply with the special provisions which are attached hereto and made a part hereof unless otherwise authorized, in writing, by the Authorized Officer:

- a. Periodic Payment and First Installment Adjustment
- (1) Notwithstanding the provisions of Sec. 3(b), the amount of the first installment may be reduced by the Government when the Authorized Officer requests the Purchaser to interrupt or delay operations for a period expected to last more than 30 days during the operating season. Such interruption or delay must be beyond the Purchaser's control. Operating Season shall be defined, for this purpose, as the time of year in which operations of the type required are normally conducted and not specifically restricted under the contract. The first installment may be reduced to 5% of the installment amount listed in Sec. 3(b), during the delay period. The Purchaser must request such a reduction in writing. When the Authorized Officer notifies the Purchaser that operations may proceed, the purchaser shall have 15 days after such notification to return the first installment to the full value within the allotted time will be considered a material breach of contract. No timber shall be cut or removed from the contract area until the first installment is restored to the full amount.
- (2) Notwithstanding the provisions of Sec. 3(b), adjustments in the due dates for periodic payments may be made by the Government if the Authorized Officer interrupts or delays contract operations for a period expected to last at least 30 days, and the interruption or delay is beyond the Purchaser's control. Any adjustment made shall provide the Purchaser with an equal amount of operating time as would have been available without the delay. The Purchaser shall request such adjustment in writing before the due date for a periodic payment contained in Sec. 3(b).

b. Logging

- (1) Prior to 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 such as having spill kits on site. A pre-work conference between the Purchaser's authorized representative and the Authorized Officer's representative must be held at a location designated by the Authorized Officer before the logging plan will be approved. All logging will be done in accordance with the plan. The logging plan shall conform to the specifications outlined in Section 42 j.
- (2) Before beginning operations on the contract area for the first time, or after a shutdown of ten or more days, the Purchaser shall notify the Authorized Officer in writing of the date they plan to begin operations. The Purchaser shall also notify the Authorized Officer in writing if they intend to cease operations for any period of ten or more days.
- (3) This is a Scale for Payment Sale; please refer to the Exhibit B of the contract for specific requirements such as log branding on all logs, hauling restrictions, and merchantability specifications.
- (4) Seasonal Restriction apply to Unit 3. Tree felling and operations are prohibited from March 1 through August 5th. Daily timing restrictions apply between August 6 and September 15th.
- (5) No trees may be felled into the Reserve Area, or Reserve Area Basal Area Retention as shown on the Exhibit A. Line pulling, jacking, or other mechanical devices shall be used as necessary to prevent trees from falling into these areas.
- (6) All snags, culls, and marginal trees designated for cutting shall be felled concurrently with all other trees designated for cutting in all harvest units as shown on Exhibit A.
- (7) In all harvest units as shown on Exhibit A, all trees three (3) inches or larger diameter breast height outside bark (DBHOB) and all merchantable trees designated for cutting shall be felled and whole tree yarded where feasible.
- (8) All trees designated for cutting shall be cut so that the resulting stumps shall not be higher than twelve (12) inches measured from the ground on the uphill side of the trees unless otherwise approved by the Authorized Officer.
- (9) In all units as shown on Exhibit A, yarding (except for road Rights-of-Way and Ground-based Yarding Area) shall be done with a skyline cable system according to the following:
 - a. One-end log suspension is required during yarding operations. Intermediate supports and/or lift trees may be required to obtain the required suspension.
 - b. The Purchaser shall make all cable sky road changes in such a way as to prevent damage to reserve trees.
 - c. If the placement of a yarding corridor requires the cutting of a tree within the Reserve Area, adjacent to

a Stream Channel, the tree shall remain on-site and felled toward the direction of the channel in a manner to protect the stream bank from disturbance during yarding. Yarding corridors shall cross the Stream Channels perpendicular where possible to minimize cutting of trees within the Reserve Area. Yarding corridor locations within the Reserve Area shall be approved by the Authorized Officer prior to cutting.

- (10) In the Ground-based Yarding Area and within road Right-of-Ways, cutting and yarding shall be done according to the following:
 - a. In addition to the requirements set forth in Sec. 26 of this contract, no ground-based logging operations shall be conducted on the contract area between October 15 of one calendar year and June 1 of the following calendar year, both days inclusive. Unseasonably dry or wet weather may shorten or extend the operating season.
 - b. Ground-based operations shall be conducted when soil moisture content is below 25%, as determined by the Authorized Officer. The Purchaser shall be notified in writing when weather conditions extend the operating season. The Purchaser shall cease operations during periods of rain and shall be notified, after a soil-moisture assessment by the Authorized Officer, when operations may resume.
 - c. The yarding machine must be approved by the Authorized Officer. It must be equipped with a grapple or an extendable and retractable arch and fairlead that is an integral part of the machine that is capable of lifting the leading end of the turn clear of the ground. All logs in the Ground Base Area shall be yarded with their leading end clear of the ground. A forwarder or tracked log loader may also be used to yard logs.
 - d. Primary skid roads/trails shall use existing trails wherever possible, designate skid trails with the objective of having less than 15 percent of a harvest area affected by compaction.
 - e. Primary skid trails shall be blocked with cull material after completion of harvest where the Authorized Officer determines vehicle access is possible.
 - f. All ground-based equipment shall be restricted to operating on slopes less than 35%, except when using previously constructed trails or accessing isolated ground-based harvest areas requiring short trails over steeper pitches. Also, limit the use of this equipment when surface displacement creates trenches, depressions, excessive removal of organic horizons, or when disturbance would channel water and sediment as overland flow.
 - g. Primary skid trails with a slope greater than 15% and/or are left with more than 100 feet of continuous bare ground shall have water bars installed and/or be covered with slash for erosion control prior to October 15 as directed by the Authorized Officer.
- (11) Prior to attaching any logging equipment to any tree within the Reserve Area, or Reserve Area Basal Area Retention, the Purchaser shall obtain written approval from the Authorized Officer, and shall take precautions to protect the trees from damage, as directed in writing by the Authorized Officer.
- (12) During logging operations, the Purchaser shall keep the 39-13-25.0 (Hazel Camp) and 40-13-2.0 (Ransom Ridge) roads, where they pass through the contract area, clear of trees, rock, dirt, and other debris so far as

practicable. The roads shall not be blocked by such operations for more than 20 minutes.

- (13) The Purchaser shall provide flagger(s) to control traffic on the 39-13-25.0 (Hazel Camp) and 40-13-2.0 (Ransom Ridge) roads where they pass through Units 1, 2, 3, 4, 5, 8, & 11 whenever felling, bucking, and yarding operations are in progress within 200 feet of the roads.
- (14) To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Section 27 of the contract.
- (15) To control the spread of noxious weeds and Port-Orford-cedar root disease, the purchaser shall conduct all operations involving the transportation and use of equipment and vehicles in strict accordance with the requirements shown on Exhibit F, which is attached hereto and made a part hereof. All road building and logging equipment shall be washed prior to moving in the Contract Area to minimize the spread of noxious weeds.
- (16) Notwithstanding the provisions of Section 22, the eleven (11) bearing trees located in timber sale Units 1, 5, 6, 7, 8, and 12 at the following locations shall be cut on a bevel facing the brass cap, the lowest part not less than eighteen inches above the scribe marks and in such a manner that will not mutilate the markings identifying the bearing trees:

Unit 1: Closing Cor. Secs. 35 & 36. T.38S, R 13 W. 10" tanoak.

Unit 1: Closing Cor. Secs. 1 & 2. T. 39 S., R. 13 W. 8" madrone.

Unit 1: 1/16 80 Secs. 1 & 2. T. 39 S., R. 13 W. 13" knobcone & 20" knobcone

Unit 5: W 1/16 Secs. 22 & 27. T. 39 S., R. 13 W. 14" Douglas-Fir & 21" Douglas-fir

Unit 7: 1/4 Secs. 23 & 26. T. 39 S., R. 13 W. 26" tanoak & 10" Douglas-fir

Unit 8: Center 1/4 Sec. 25. T. 39 S., R. 13 W. 14" Douglas-fir

Unit 8: Center West 1/16 Sec. 25. T. 39 S., R. 13 W. 20" Douglas-fir

Unit 12: E 1/16 Sec. 15. T. 39 S., R. 13 W. Undetermined

The purchaser shall treat all such bearing stumps in the following manner during the dry season of the year:

- a) Remove all bark providing there are no identifying marks on the bark.
- b) Flood the tops and sides of the stumps with a copper naphthenate solution which conforms to American Wood Preservers Association Standard P 9 (hydrocarbon solvent) and contains a minimum of two (2) percent copper metal.
- c) Let the stump dry for one month.
- d) Repeat the flooding operation.

- e) Place a sheet of galvanized metal over the top of each stump, bend down the edges, and nail to the side of the stump.
- f) A six (6) foot long steel fence post shall be driven alongside the corner monument if existent.

c. Road Construction

- (1) The Purchaser shall construct and renovate roads in strict accordance with the road plans and specifications, shown on Exhibit C, which is attached hereto and made a part hereof.
- (2) Any required construction or renovation of structures and roads shall be completed and accepted prior to the removal of any timber, except right-of-way timber, over that road.
- (3) Seasonal Restriction apply to Unit 3. Road construction operations are prohibited from March 1 through August 5th. Daily timing restrictions apply between August 6 and September 15th.
- (4) To minimize the risk of attracting predators to activity areas, all garbage (especially food products) will be contained or removed daily from the contract area pursuant to Section 27 of the contract.
- (5) In addition to the requirements set forth in Sec. 26 of this contract, the Purchaser shall complete erosion control and soil stabilization measures on all cuts, fills, waste areas, and scarified areas, as designated by the Authorized Officer, along all sections of roadway disturbed during the year prior to October 15 of each year. The Authorized Officer may set time limits for the beginning and completion of erosion control and soil stabilization measures and modify seasonal dates to conform to existing weather conditions and changes in the construction schedule. Such work shall be accomplished in accordance with Erosion Control and Soil Stabilization, 1700 and 1800 Series, contained in Exhibit C.
- (6) The Purchaser, prior to construction of landings, shall stake all landing locations in accordance with the requirements set forth in Exhibit C. Concurrently with, or at the termination of logging operations, the Purchaser shall pull back and shape onto the landings all overhanging materials to prevent erosion in accordance with the requirements set forth in Exhibit C.

d. Road Use and Maintenance

- (1) The Purchaser shall be required to secure written approval to use or haul equipment over Government owned or controlled structures when that equipment exceeds the maximum allowable weights or dimensions established by the State for vehicles operating without a permit.
- (2) Tracked type equipment shall not be allowed to cross over concrete bridge decks, other concrete surfaced structures or asphalt surfaced roads without the proper protection of that surface. Prior approval shall be obtained from the Authorized Officer when crossing with protective devices. Details of such equipment shall be furnished to the Authorized Officer for evaluation of load characteristics, at least 15 days prior to proposed move in. Details shall include:
 - a. Axle weights when fully loaded;
 - b. Axle spacing;

- c. Transverse wheel spacing;
- d. Tire size;
- e. Outside width of vehicle;
- f. Operating speed;
- g. Frequency of use; and,
- h. Special features (e.g. running tracks, overhang loads, etc.).

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

- (3) The Purchaser is authorized to use the roads listed and shown on Exhibit E, which is attached hereto and made a part hereof, for the removal of Government timber sold under the terms of this contract and for haul of mineral material required under the terms of this contract.
- (4) In the use of Road Nos. 39-13-25.0, 39-13-13.1, 39-13-25.0, 39-13-24.0, 39-13-25.0, 39-13-25.6, 40-13-2.0, 39-13-29.0, 40-13-2.0, 40-13-5.1, & 40-14-25.0, the Purchaser shall comply with the conditions of Right-of-Way Agreement –C-706 dated June 20, 1988, between the United States of America and Chetco Resources, LLC. This document is available for inspection at the Coos Bay District Office. These conditions include:
 - (a) Prior to the use of said roads, the Purchaser shall furnish the Authorized Officer a properly signed copy of the executed License Agreement.
 - (b) Payment of a road use fee estimated in the amount of five thousand eight hundred fifty-two and 0/100 dollars (\$5,852.00) payable at the time indicated in the License Agreement. The total road use fee due shall be based upon actual net scaled volumes determined pursuant to the final revised Exhibit B of this contract.
 - (c) Payment of a maintenance and rockwear fee estimated in the amount of nineteen thousand four hundred eighty-seven and 63/100 dollars (\$19,487.69) payable at the time indicated in the License Agreement. The total maintenance and rockwear fee shall be based upon actual net scaled volumes determined pursuant to the final revised Exhibit B of this contract.
 - (d) Default by the Purchaser of said Right-of-Way and Road Use Agreement, or any License Agreement executed pursuant thereto, for failure to pay appropriate road use fees shall be considered a violation of this contract. The amount of unpaid fees shall be considered as the amount of damage suffered by the Government as a result the violation of this provision.
 - (e) A performance bond in the amount of \$10,000.00 and comprehensive liability insurance will be required by Licensor.
- (5) At all times during the period of operations on the contract area, and upon completion of said operations, the Purchaser shall be liable for maintenance and repair of such roads shown on Exhibit D resulting from wear or damage in accordance with the maintenance specifications as shown on Exhibit D.

The following management practices shall be used to prevent delivery of haul-related sediment to the stream network during wet season haul or as determined by the Authorized Officer:

- a. Apply additional lift of rock to the area of road that can influence the stream if rill erosion is evident or likely in the road near a stream crossing. Hard rock shall be in place at the start of winter haul and additional rock shall be applied as necessary to maintain the stream crossing for the duration of wet season haul.
- b. Contain offsite movement of sediment from the road or ditch flow near stream by installing a silt fence or other sediment-trapping device. Such control measures must allow for the free flow of water without detention or plugging. The control measure must receive frequent maintenance with accumulated sediment disposed of in accordance with Authorized Officer instructions. Silt fences or sediment traps shall be in place prior to the start of winter haul.
- c. Hauling during the wet season may be suspended if more than 1 inch of rain is expected in a 24-hour period and the Authorized Officer determines that the soils in the contract area are already saturated and the sediment prevention measures in described in Sec 42.d(8) would be ineffective at preventing sediment delivery to the stream network. The NOAA National Weather Service Hydrometeorological Prediction Center web site, http://www.hpc.ncep.noaa.gov (Quantitative Precipitation Forecast) shall be used as the rainfall forecast tool unless otherwise directed by the Authorized Officer.
- (6) Road Nos. 39-13-2.5, 39-13-13.1, 39-13-13.4, 39-13-26.2, 39-13-26.1, 39-13-25.7, 39-13-25.6, and 39-13-27.9 are restricted to dry season haul only between June 1 and October 15 unless dry conditions extend the hauling season, as directed by the Authorized Officer. The 39-13-25.0 road is approved for wet season haul.
- (7) Purchaser will be required to fell, buck, and deck logs within the Right-of-Way on private property according to the terms and conditions of the License Agreement. The Purchaser shall contact South Coast Lumber's office 30 days prior to cutting any R/W timber for current log lengths and diameter specifications.
- e. Fire Prevention and Control

Primarily for purposes of fire prevention and control, the Purchaser shall comply with the following provisions:

- (1) At least three (3) days prior to the operation of power-driven equipment during any operations under this contract during the closed fire season or periods of fire danger, prepare a fire prevention and control plan to the satisfaction of the Authorized Officer.
- (2) Provide and maintain on the contract area in good working order, and immediately available, the following equipment for use during the closed fire season or periods of fire danger:
 - a. Fire fighting tools shall be kept at each landing or at such other place as the Authorized Officer shall designate whenever employees are working on the contract area. All firefighting tools shall be kept in a sturdily constructed box which shall be painted red and lettered on the front or top in large letters, "For

Fire Only." The box shall have a hinged lid and a hasp by which the lid can be sealed. One box may serve two (2) landings not over six hundred (600) feet apart. When filled, the box shall not weigh over two hundred (200) pounds. The fire tools shall be in good condition, be tight on strong handles, and have sharp cutting edges. There shall be not less than four (4) tools in each box nor less than one (1) tool for each employee working on the contract area. Three-fourths (3/4) of all fire tools shall be shovels, hazel hoes, or other scraping tools. The fire tools shall be used only for fighting fire. Operations with four or fewer workers are not required to provide a fire tool box for the operation as long as each worker is equipped with a shovel suitable for fire suppression.

b. At each landing during periods of operation one (1) tank truck of three thousand (3,000) gallons or more capacity with enough one and one-half (1 ½) inch hose to reach from the water supply to any location in the operation area affected by power driven machinery, or one thousand (1,000) feet, whichever is greater is required. Two (2) nozzles and a gated-wye are also required for the hoselay. Two (2) fifteen hundred (1,500) gallon tank trucks or portable tanks may be substituted for each required three thousand (3,000) gallon tank truck, provided that the total capability to pump and deliver water remains unchanged. Each tank truck shall be equipped with a pump capable of delivering a minimum of twenty (20) gallons per minute (gpm) water flow at one hundred ten (110) pounds per square inch (psi) engine pressure through fifty (50) feet of 1 ½ inch fire hose. The pump may be either power take off driven or truck-mounted auxiliary engine driven, or portable. All equipment shall be acceptable to and approved by the Authorized Officer and shall conform to the standards set forth in Oregon Revised Statutes 477.645 through 477.670. All hose couplings shall have the standard thread adopted by the BLM (1 ½ inches National Hose Thread (NH), 1 inch National Pipe Straight Hose Thread (NPSH) or be provided with suitable adapters use. All tank trucks shall be filled with water and made available for immediate use.

f. Logging Residue Reduction

In addition to the requirements of Sections 15 and 25 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 Purchaser for such hazard, the Purchaser shall remain responsible to the Government for performance of the following hazard reduction and logging residue reduction measures required of them by this contract:

- (1) Landing pile construction and covering: Within thirty (30) feet of the edge of each landing, all tops, broken pieces, limbs and debris shall be piled within fifteen (15) days of completion of hauling logs from that landing.
 - a) Landing piles shall be kept free of dirt and located adjacent to roads at least twenty (20) feet from any Reserve Tree and/or as directed by the Authorized Officer.
 - b) Upon completion of landing piling, and no later than September 30 of the same year of piling, the Purchaser shall prepare the landing piles for burning by securely covering each pile with a 10-foot by 10-foot cover of four (4) ML polyethylene (PE) on each landing pile to maintain a dry

ignition point. The cover shall be firmly fixed to each pile to hold it in place. To meet ignition and combustion needs, larger piles may require additional PE sheeting.

- c) The Purchaser is required to furnish the covering materials.
- d) The Purchaser shall contact the Authorized Officer before any pile covering begins. At that time, the Authorized Officer will identify all piles that are approved for covering in excess of the one-hundred (100) square foot maximum size.
- e) Piles with material extending more than two (2) feet beyond the general contour of the pile shall be flattened or trimmed to create a uniform surface and to prevent the PE sheeting from tearing during wind events. Pile trimming or flattening shall be done prior to pile covering. Pieces of burnable material shall be placed on top of the plastic to secure it from moving and to prevent it from blowing off during strong wind episodes.
- f) The timing of this covering work shall be in accordance with instructions from the Authorized Officer. If the structure of the landing piles will not permit adequate consumption of piled debris by burning, the Purchaser shall re-pile them at the direction of the Authorized Officer.
- (2) Machine pile construction and covering (approximately six (6) acres): Machine Pile Areas, as identified on Exhibit A, will require additional piling to prepare the site for planting. All tops, broken pieces, limbs and debris less than six (6) inches in diameter and longer than three (3) feet in length will be piled. Piles will be kept free of dirt and located at least twenty (20) feet from any reserve tree or snag and as far as possible from culverts or unit boundaries.
 - a) Material exceeding the diameter limits specified may be left un-piled; however, attached limbs and tops falling within the diameter limits shall be cut off and piled.
 - b) Piles shall be constructed as upright as possible and have a solid base to prevent toppling. Piles shall be no smaller than eight (8) feet in diameter and six (6) feet in height.
 - c) All piled material shall be laid perpendicular to the slope. There should be an adequate supply of finer fuels located within the interior of the pile to ensure ignition of the larger fuels.
 - d) The Purchaser shall place black polyethylene (PE) sheeting, four (4) MIL in thickness, over the pile to provide a barrier from winter rains. Unless otherwise directed, the size of PE sheeting shall not exceed one hundred (100) square feet. Larger piles may receive additional PE sheeting in excess of the one hundred (100) square feet to provide adequate protection. Piles within this size limit will be identified by the Authorized Officer before the pile covering begins.
 - e) The Purchaser is required to furnish the covering materials.
 - f) Material extending more than 2 feet beyond the general contour of the pile shall be

flattened with the excavator or cut off and placed on the pile.

- g) Plastic covering shall be placed on top of the pile to ensure the center of the pile remains dry and shall be weighted down with logging debris and shall be tied down with combustible cord on all four corners.
- (3) Notwithstanding the provisions of Sec. 15 of this contract, the Government shall be responsible for disposing of slash created by the Purchaser's operations on Government lands, except for assistance as required herein. In accordance with written instructions to be issued by the Authorized Officer at least ten (10) days in advance of earliest date of required performance, the Purchaser shall, under supervision of the Authorized Officer, assist with landing pile burning, machine pile burning and hand pile burning by furnishing, at their own expense, the services of personnel and equipment as follows:
 - a) The purchaser shall begin burning within fourteen hours (14) of notification by the Authorized Officer.
 - b) For each entry, the Purchaser may provide more personnel, equipment and materials than indicated, but no less than the minimum requirements listed below. Minimum personnel, equipment and materials requirements are:
 - 1) Machine and Landing Pile Burning:
 - a. One (1) English-speaking crew supervisor (minimum FFT2)
 - b. Three (3) person burn crew (minimum FFT2)
 - c. Three (3) drip torches and sufficient fuel to complete all pile burning

All listed personnel shall be qualified as a Type-II Firefighter (FFT2) or higher (National Wildfire Coordinating Group (NWCG) Wildland Fire Qualifications System guide, (PMS 310-1)). All 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 a minimum of eight (8) inch uppers that provide ankle support; an approved hart hat; leather gloves; long-sleeve shirt and full-length trousers made of approved aramid fabric (Nomex or equivalent) and an approved fire shelter. All tools and equipment shall be in good condition. The Purchaser shall provide fuel for all ignition equipment.

- c) The Purchaser shall remove and dispose of all PE sheeting on landing piles exceeding the one-hundred (100) square foot maximum size. The sheeting shall not be removed until directed by the Authorized Officer. The Purchaser shall dispose of removed PE sheeting in accordance with applicable Federal, State and municipal laws. Removed PE sheeting shall not be disposed of in burn piles.
- d) A minimum of eighty (80) percent consumption of landing piles is required.

- e) No mop-up of piles is required of the Purchaser.
- f) Based on the time of year and sequence in which harvest and treatment of the units is completed, burning may be required over multiple seasons.

Time is of the essence in complying with burning provisions. In the event the Purchaser fails to provide the personnel, equipment and materials required herein, the Purchaser shall be responsible for all additional costs incurred by the Government in completing the logging residue reduction. Additional costs may include, but are not limited to, wages and associated expenses of providing federal employees or others as a substitute labor force, the cost of providing substitute equipment, and appropriate additional overhead expenses. If the Purchaser's failure results in deferral of burning, and new conditions necessitate additional site preparation work and/or the use of additional personnel and equipment to accomplish the planned burn, the Purchaser also shall be responsible for such additional costs.

g. Log Export and Substitution

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. 94165 and 43 CFR 5400 and 5424 as amended.

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

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

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

- a. date of last export sale;
- b. volume of timber contained in last export sale;
- c. volume of timber exported in the past 12 months from the date of last export sale;
- d. volume of Federal timber purchased in the past 12months from the date of last export sale;
- e. volume of timber exported in succeeding 12 months from date of last export sale; and,

- f. volume of Federal timber purchased in succeeding 12 months from date of last export sale.
- (2) In the event the Purchaser elects to sell any or all of the timber sold under this contract in the form of unprocessed timber, the Purchaser shall require each party buying, exchanging, or receiving such timber to execute a "Certificate as to Nonsubstitution and the Domestic Processing of Timber" (Form 5460-16). The original of such certification shall be filed with the Authorized Officer. Additionally, when the other party is an affiliate of the Purchaser, the Purchaser will be required to update information under item (2) of Form 5450-17 (Export Determination) and file the form with the Authorized Officer.
- (3) In the event an affiliate of the Purchaser has exported private timber within 12 months prior to purchasing or otherwise acquiring Federal timber sold under this contract, the Purchaser shall, upon request, obtain from the affiliate information in a form specified by the Authorized Officer and furnish the information
- (4) Prior to the termination of this contract, the Purchaser shall submit to the Authorized Officer a "Log Scale and Disposition of Timber Removed Report" (Form 5460-15) which shall be executed by the Purchaser. In addition, the Purchaser is required under the terms of this contract to retain for a three-year period from the date of termination of the contract the records of all sales or transfer of logs involving timber from the sale for inspection and use of the Bureau of Land Management.
- (5) The Purchaser shall brand clearly and legibly one end of all logs, prior to the removal of timber from the contract area. One end of all branded logs will be marked with a three 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. The Purchaser will be required to brand and paint all logs. Any increased costs for log branding and painting shall be the responsibility of the Purchaser.

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

h. Cultural Resource Protection

- (1) If in connection with operations under this contract, the Purchaser, his contractors, sub-contractors, or the employees of any of them, discovers, encounters or becomes aware of any objects or sites of cultural value on the contract area such as historical or prehistorical ruins, fossils, or artifacts, the Purchaser shall immediately suspend all operations in the vicinity of the cultural value and notify the Authorized Officer of the findings. Operations may resume at the discovery site upon receipt of written instructions and authorization by the Authorized Officer.
- (2) Pursuant to 43 CFR 10.4(g) the holder of this authorization must notify the Authorized Officer, by telephone, with written confirmation, immediately upon discovery of human remains, funerary items, sacred

objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4(c) and (d), you must stop activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the Authorized Officer.

i. Sensitive, Threatened, or Endangered Plants or Animals

The Purchaser shall immediately discontinue specified construction or timber harvesting operations upon written notice from the Authorized Officer that:

- a. threatened or endangered plants or animals protected under the Endangered Species Act of 1973, as amended, may be affected by the operation, and a determination is made that consultation or reinitiation of consultation is required concerning the species prior to continuing operation, or;
- b. when, in order to comply with the Endangered Species Act, or to protect occupied marbled murrelet sites and to prevent incidental take of northern spotted owls in accordance with the Standards and Guidelines or management direction of the Record of Decision (ROD) and Resource Management Plan (RMP), the Authorized Officer determines it may be necessary to modify or terminate the contract, or;
- c. federal proposed, federal candidate, Bureau sensitive or State listed species protected under BLM Manual 6840 Special Status Species Management have been identified, and a determination is made that continued operations would affect the species or its habitat, or;
- d. other active raptor nests have been discovered, and a determination is made that continued operations under this contract would adversely affect the present use of the discovered nesting area by the raptor, or:
- e. when, in order to comply with a court order which enjoins operations on the sale or otherwise requires the Bureau of Land Management to suspend operations, or;
- f. when, in order to comply with a court order, the Authorized Officer determines it may be necessary to modify or terminate the contract, or;
- g. species have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, and the Authorized Officer determines that continued operations would affect the species or its habitat, or; when, in order to protect species which were identified for protection through survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, the Authorized Officer determines it may be necessary to modify or terminate the contract.

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

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

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

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

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

The Authorized Officer may determine that it is necessary to modify the contract or terminate the cutting and removal rights under the contract in order to comply with the Endangered Species Act, prevent incidental take of northern spotted owls and protect occupied marbled murrelet sites in accordance with the ROD and RMP, protect species that have been discovered which were identified for protection through survey and manage and/or protection buffer standards and guidelines or management direction established in the ROD and RMP, or comply with a court order. Following the issuance of a written notice that cutting and removal rights will be terminated, the Purchaser will be permitted to remove timber cut under the contract, if allowed by the Endangered Species Act, if able to proceed without causing incidental take of northern spotted owls and marbled murrelet occupied site protection in accordance with the ROD and RMP, consistent with survey and manage and/or protection buffer standards and guidelines established in the ROD and RMP, or court order requirements necessitating the modification or termination.

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

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

j. Safety

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

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

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

k. Small Business Administration (SBA) Set Aside

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

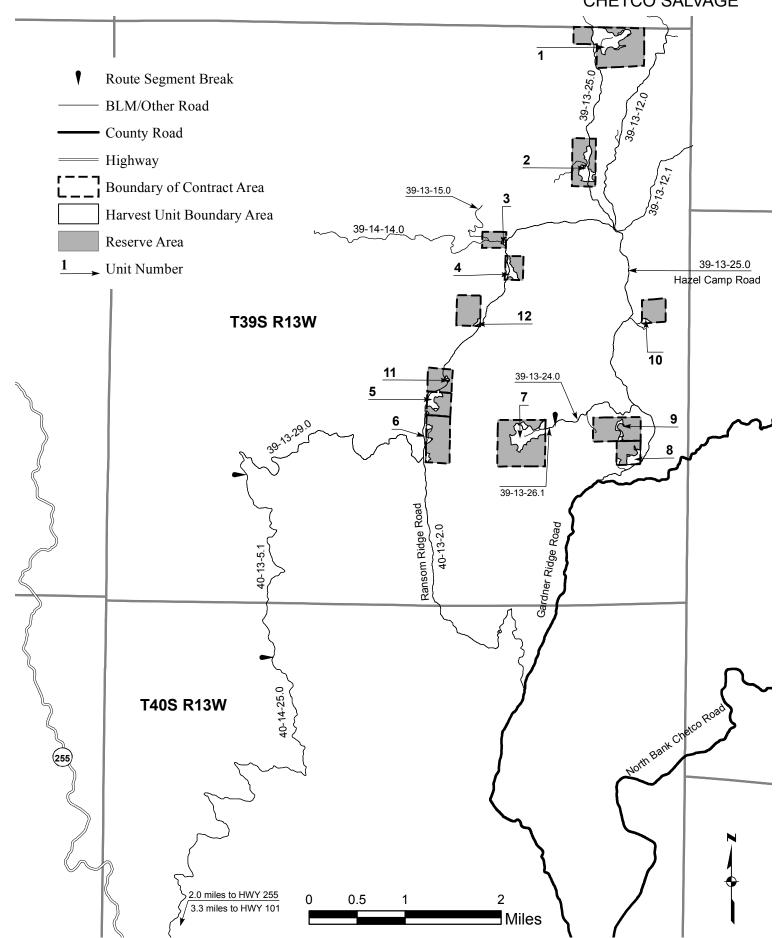
(13 CFR 121).

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.

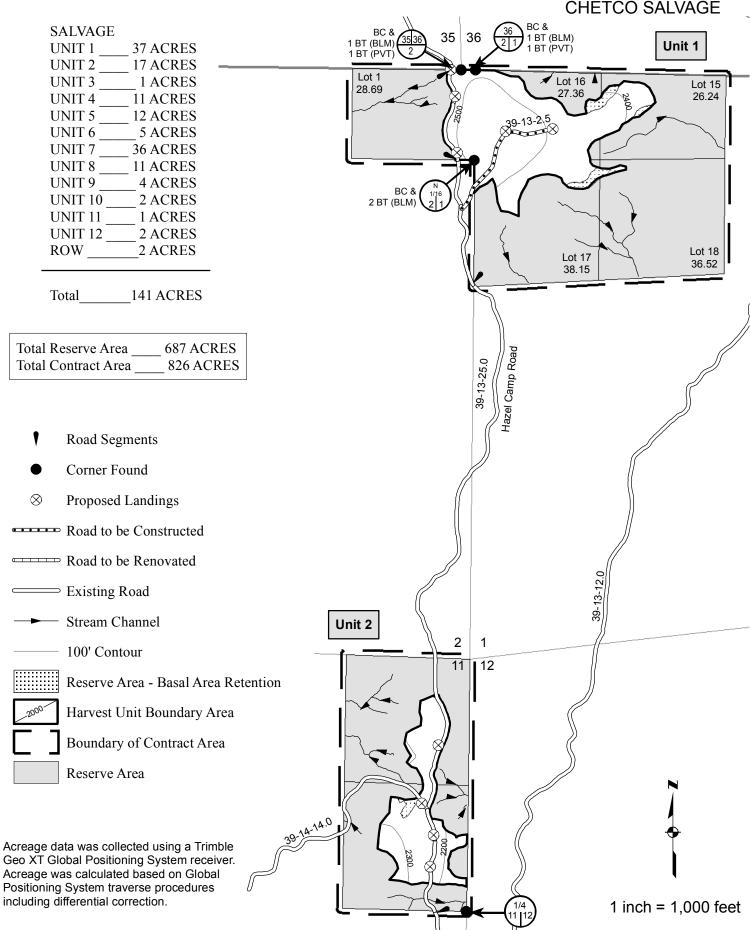
T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A-1 Page 1 of 1 CHETCO SALVAGE



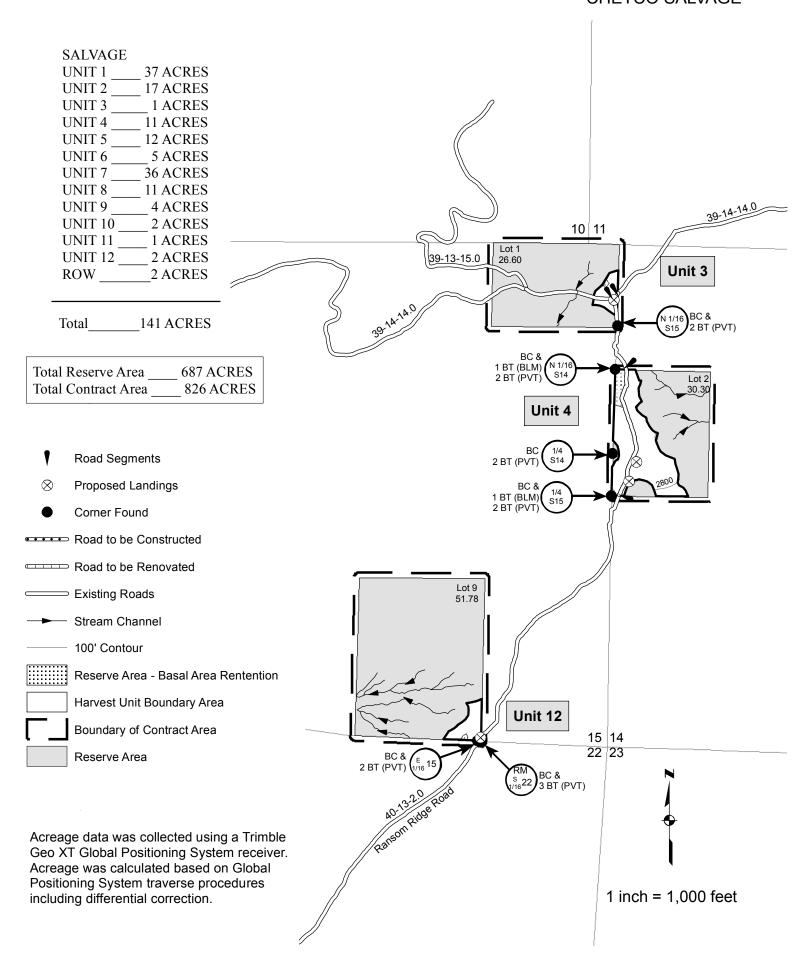
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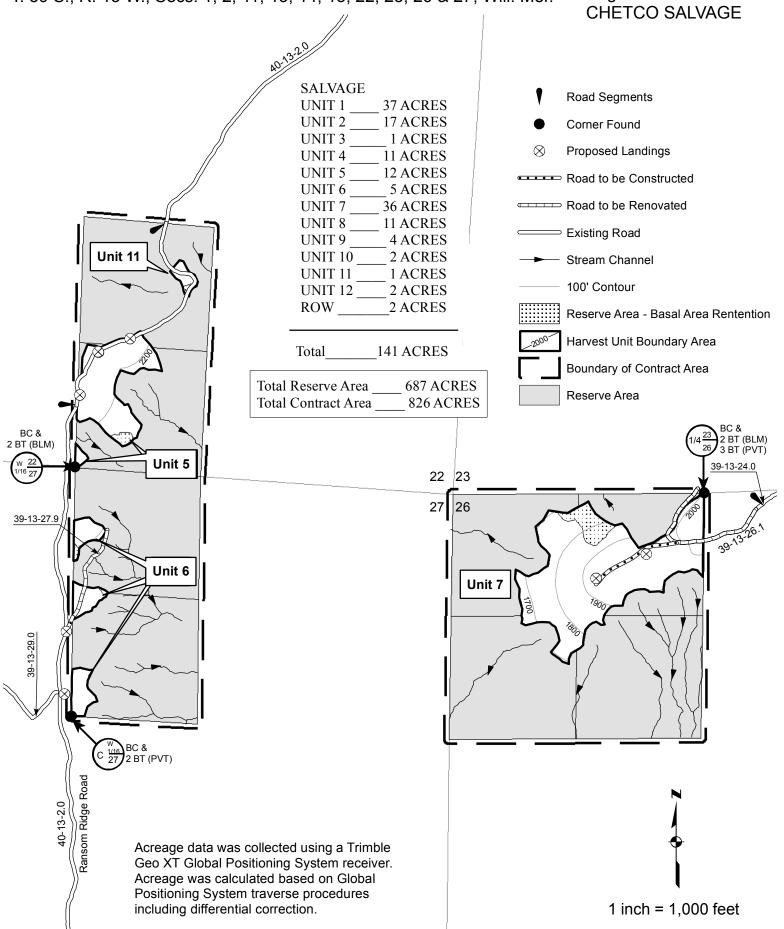
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ORCOO-TS-2018.0036 EXHIBIT A Page 2 of 9 CHETCO SALVAGE



T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

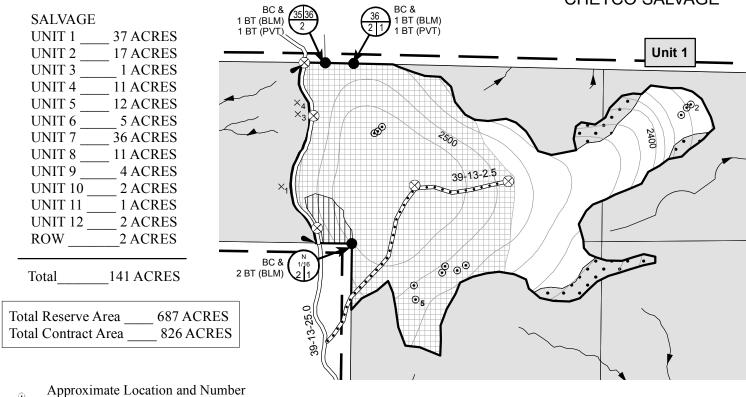
ORCOO-TS-2018.0036 EXHIBIT A Page 3 of 9



ORCOO-TS-2018.0036 TIMBER SALE CONTRACT MAP **EXHIBIT A** USDI-BLM COOS BAY DISTRICT Page 4 of 9 T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer. CHETCO SALVAGE **SALVAGE** UNIT 1 ____ 37 ACRES UNIT 2 ____ 17 ACRES 39-13-13.4 UNIT 3 1 ACRES 13 UNIT 4 11 ACRES 24 UNIT 5 12 ACRES UNIT 6 5 ACRES Unit 10 36 ACRES UNIT 7 UNIT 8 11 ACRES **BC &** Hazel Camp Road 2 BT (PVT) UNIT 9 4 ACRES 2 ACRES UNIT 10 UNIT 11 1 ACRES Gate UNIT 12 2 ACRES Road Segments ROW 2 ACRES Corner Found Total 141 ACRES **Proposed Landings** 687 ACRES Total Reserve Area •-•-• Tractor Swing Road Total Contract Area 826 ACRES Road to be Constructed Road to be Renovated Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Existing Road Acreage was calculated based on Global Positioning System traverse procedures Stream Channel including differential correction. 100' Contour Reserve Area - Basal Area Rentention Harvest Unit Boundary Area **Boundary of Contract Area** Unit 9 Reserve Area 23 24 26 39-13-24.0 BC 8 1 BT (BLM) 1 BT (BLM) CW 25 1 inch = 1,000 feetUnit 8 39-13-25.7

T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A Page 5 of 9 CHETCO SALVAGE



- Approximate Location and Number of Wildlife Trees to be Reserved
- ×₂ Approximate Location and Number of Trees Marked for Cutting in the Reserve
- Road Segments
- Corner Found
- ⊗ Proposed Landings

Road to be Constructed

Road to be Renovated

Existing Road

Stream Channel

—— 20' Contour

| | | | | | | | Machine Pile Area (6 Acres Total)

Ground-based Yarding Area

• . • . Reserve Area - Basal Area Retention

Harvest Unit Boundary Area

Boundary of Contract Area

Reserve Area

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

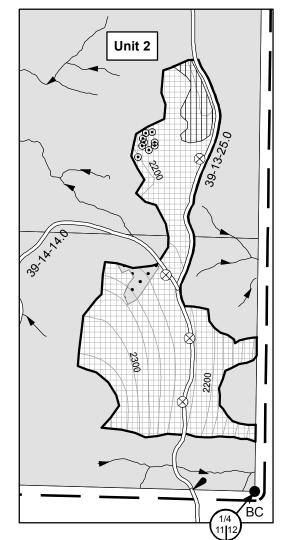
GROUND-BASED YARDING AREA

UNIT 1 26 ACRES UNIT 2 17 ACRES 1 ACRES UNIT 3 UNIT 4 11 ACRES UNIT 5 12 ACRES 5 ACRES UNIT 6 UNIT 7 12 ACRES UNIT 8 **5 ACRES** UNIT 9 0 ACRES UNIT 10 0 ACRES UNIT 11 1 ACRES UNIT 12 2 ACRES

Total_____93 ACRES

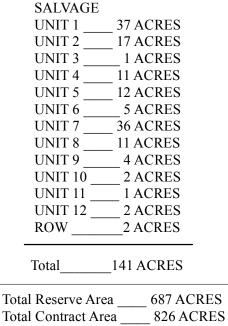


1 inch = 500 feet



T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A Page 6 of 9 CHETCO SALVAGE



Approximate Location and Number

of Wildlife Trees to be Reserved

- ×₂ Approximate Location and Number of Trees Marked for Cutting in the Reserve
- Road Segments
- Corner Found
- ⊗ Proposed Landings

Road to be Constructed

Road to be Renovated

Existing Road

→ Stream Channel

— 20' Contour

Seasonal Restriction (NSO and MM)

Ground-based Yarding Area

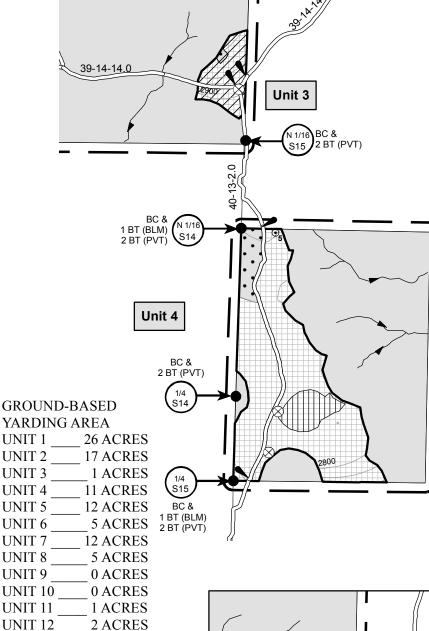
• • Reserve Area - Basal Area Retention

Harvest Unit Boundary Area

Boundary of Contract Area

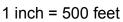
Reserve Area

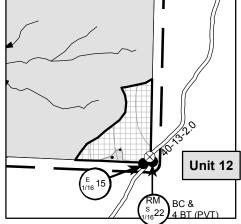
Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.





Total 93 ACRES





T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A Page 7 of 9 CHETCO SALVAGE

SALVAGE	
UNIT 1	37 ACRES
UNIT 2	17 ACRES
UNIT 3	1 ACRES
UNIT 4	11 ACRES
UNIT 5	12 ACRES
UNIT 6	5 ACRES
UNIT 7	36 ACRES
UNIT 8	11 ACRES
UNIT 9	4 ACRES
UNIT 10	2 ACRES
UNIT 11	1 ACRES
UNIT 12	2 ACRES
ROW	2 ACRES

 Total	 141	ACRES
Total	141	ACKES

Total Reserve Area _	687 ACRES
Total Contract Area	826 ACRES

- Approximate Location and Number of Wildlife Trees to be Reserved
- ×₂ Approximate Location and Number of Trees Marked for Cutting in the Reserve
- Road Segments
- Corner Found
- ⊗ Proposed Landings

Road to be Constructed

Road to be Renovated

Existing Road

── Stream Channel

20' Contour

| | | | | | | | Machine Pile Area (6 Acres Total)

Ground-based Yarding Area

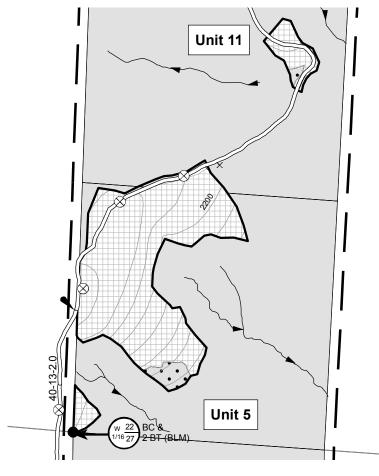
. . . Reserve Area - Basal Area Retention

Harvest Unit Boundary Area

Boundary of Contract Area

Reserve Area

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.



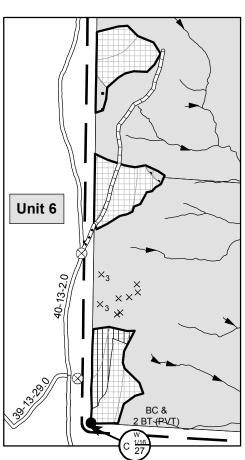
GROUND-BASED YARDING AREA

LI CLI
26 ACRES
17 ACRES
_ 1 ACRES
11 ACRES
12 ACRES
_ 5 ACRES
12 ACRES
_ 5 ACRES
_ 0 ACRES
_ 0 ACRES
1 ACRES
2 ACRES

Total 93 ACRES

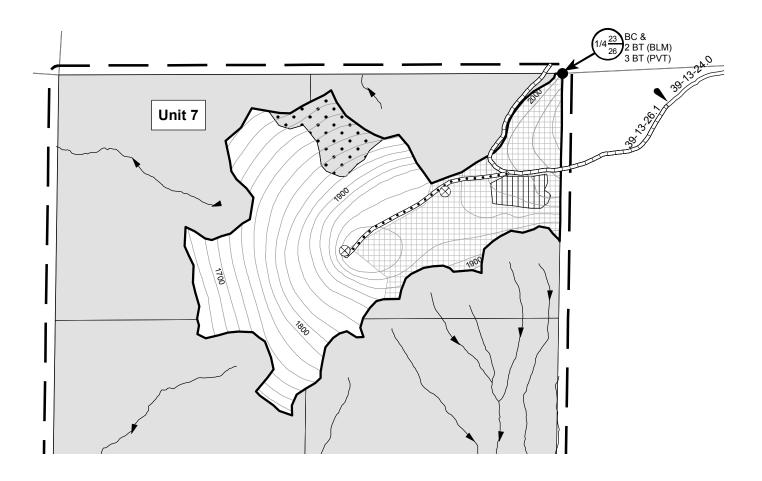


1 inch = 500 feet



T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A Page 8 of 9 CHETCO SALVAGE



SALVAGE	
UNIT 1	37 ACRES
UNIT 2	17 ACRES
UNIT 3	1 ACRES
UNIT 4	11 ACRES
UNIT 5	12 ACRES
UNIT 6	5 ACRES
UNIT 7	_ 36 ACRES
UNIT 8	_ 11 ACRES
UNIT 9	4 ACRES
UNIT 10	2 ACRES
UNIT 11	1 ACRES
UNIT 12	2 ACRES
ROW	2 ACRES
Total	141 ACRES

Total Reserve Area	687 ACRES
Total Contract Area	826 ACRES

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.

- Approximate Location and Number of Wildlife Trees to be Reserved
 - Approximate Location and Number of Trees Marked for Cutting in the Reserve
- Road Segments
- Corner Found
- ⊗ Proposed Landings
- Road to be Constructed
- Road to be Renovated
- Existing Road
- → Stream Channel
 - 20' Contour
- | | | | | | | | Machine Pile Area (6 Acres Total)
- Ground-based Yarding Area
- Reserve Area Basal Area Retention
- Harvest Unit Boundary Area
 - Boundary of Contract Area
 - Reserve Area

GROUND-BASED

YARDING AREA UNIT 1 26 ACRES

UNIT 2 ____ 17 ACRES

UNIT 3 1 ACRES

UNIT 4 11 ACRES

UNIT 5 ____ 12 ACRES

UNIT 6 _____ 5 ACRES

UNIT 7 ____ 12 ACRES

UNIT 8 _____ 5 ACRES UNIT 9 0 ACRES

UNIT 10 0 ACRES

UNIT 11 ____ 1 ACRES

UNIT 12 ____ 2 ACRES

Total 93 ACRES



1 inch = 500 feet

T. 39 S., R. 13 W., Secs. 1, 2, 11, 13, 14, 15, 22, 25, 26 & 27, Will. Mer.

ORCOO-TS-2018.0036 EXHIBIT A Page 9 of 9 CHETCO SALVAGE

SALVAGE		GROUND-	BASED
UNIT 1	_ 37 ACRES	YARDING	AREA
UNIT 2	17 ACRES	UNIT 1	26 ACRES
UNIT 3	1 ACRES	UNIT 2	17 ACRES
UNIT 4	_ 11 ACRES	UNIT 3	1 ACRES
UNIT 5	_ 12 ACRES	UNIT 4	11 ACRES
UNIT 6	5 ACRES	UNIT 5	12 ACRES
UNIT 7	_ 36 ACRES	UNIT 6	5 ACRES
UNIT 8	_ 11 ACRES	UNIT 7	12 ACRES
UNIT 9	4 ACRES	UNIT 8	5 ACRES
UNIT 10	2 ACRES	UNIT 9	0 ACRES
UNIT 11	1 ACRES	UNIT 10	0 ACRES
UNIT 12	2 ACRES	UNIT 11	1 ACRES
ROW	2 ACRES	UNIT 12	2 ACRES
Total	_141 ACRES	Total	93 ACRES

Unit 10

39-13-13.4

(98

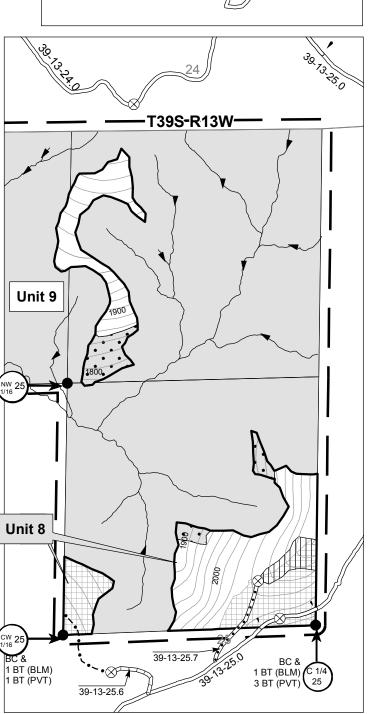
11/4 13/24) BC & 2 BT (PVT)

Total Reserve Area _____ 687 ACRES
Total Contract Area _____ 826 ACRES

- Approximate Location and Number of Wildlife Trees to be Reserved
- ×₂ Approximate Location and Number of Trees Marked for Cutting in the Reserve
- Road Segments
- Corner Found
- Proposed Landings
- Road to be Constructed
- Road to be Renovated
- •-•-• Tractor Swing Road
- Existing Road
- _____ 20' Contour
- → Stream Channel
- Machine Pile Area (6 Acres Total)
 - Ground-based Yarding Area
- • Reserve Area Basal Area Retention
- Harvest Unit Boundary Area
- Boundary of Contract Area
- Reserve Area

Acreage data was collected using a Trimble Geo XT Global Positioning System receiver. Acreage was calculated based on Global Positioning System traverse procedures including differential correction.





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

EXHIBIT B

SCALE SALE PURCHASE PRICE SCHEDULE AND MEASUREMENT SPECIFICATIONS

I. Total Actual Purchase Price – In accordance with Sections 2 and 3 of the contract, the Purchaser agrees to pay the Government for the forest products sold under the contract in accordance with the following schedule and measurement requirements. Forest products sold are comprised of *Merchantable Timber*, *Other Timber*, *Other Forest Products*, *Remaining Volume*, and *Defect Caused by Abnormal Delay* as defined in this Exhibit. In the event an Extension of Time is approved, the prices per measurement unit are subject to readjustment (refer to Section 9 of the contract).

Schedule of Products, Species, Measurement Units, and Prices						
Species	Measurement Units	Price Per Measurement Unit				
Merchantable Timber:						
Douglas-fir	MBF	\$99.20				
Other Wood Products:						

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

Schedule of Minimum Merchantable Log Specifications						
Species and Products	Length	Diameter (inside bark at small end)	Net Scale			
All	16 Feet	12 inches	80 bf			

III. Other Timber – If Purchaser elects to remove any logs which do not meet the above minimum merchantable log specifications in Section II of this Exhibit, are not designated as other forest products in Section I of this Exhibit, and have not been reserved to the Government in Section 41 of the contract, such logs shall be scaled for their merchantable content as provided herein and be paid for in accordance with Sections 2 and 3 of the contract and the prices per measurement unit in Section I of this Exhibit. If

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

- **IV. Deterioration Caused by Abnormal Delay** Scaling deductions made for rot, checks, or other deterioration resulting from abnormal delay in scaling caused by Purchaser shall be recorded separately and charged to the Purchaser in accordance with Section 3.(g). of the contract.
- **V. Remaining Volume** *Remaining volume* is defined in Section 3.(g). of the contract. The remaining volume of any forest products sold under the contract, and any deterioration due to abnormal delay shall be determined as provided in Section 3.(g). of the contract. Purchaser shall pay for same in accordance with Section 3 of the contract at the prices per measurement unit shown in Section I of this Exhibit. To maximize utilization, the Purchaser shall buck logs to variable merchantable lengths. If the Purchaser fails to buck logs to variable merchantable lengths, the Authorized Officer may measure unyarded log segments and bill the Purchaser for their value.

The Authorized Officer may determine during operations that the amount of remaining volume found is excessive and/or preventing the attainment of BLM treatment objectives. Upon such determination as directed in writing by the Authorized Officer, the Purchaser shall restring cable yarding lines, re-traverse ground-based yarding areas, and/or re-fly aerial yarding areas; and yard, remove, and present for scaling the material which would otherwise be designated as remaining volume.

VI. Scaling

A. **Scaling Service** – Log scaling services shall be provided and performed by Government scalers or parties under contract to BLM, as determined by the Authorized Officer. Purchaser shall notify the Authorized Officer three (3) days prior to commencing any hauling, including any hauling shutdowns longer than two (2) days, and at the earliest opportunity when ceasing hauling operations performed under the contract.

A Scaling Authorization must be completed and approved by the Authorized Officer prior to beginning operations. A Yard Scaling Agreement must be completed for each utilization facility that will receive logs from the sale, which must be scaled, and executed by the Purchaser, Scale Site Owner, and Authorized Officer prior to the delivery of any logs to that facility. Government scalers or contract scalers are authorized to collect scale data from all loads.

B. Log Rule and Measurement

All logs shall be scaled according to the Eastside Scribner Log Rules found in the Northwest Log Rules Eastside and Westside Log Scaling Handbook in the Official Rules for Log Scaling and Grading Bureaus developed by the Northwest Log Rules Advisory Group dated July 1, 2003 (reprinted June 1, 2006). The Contracting Officer may elect to utilize sample scaling in lieu of 100 percent scaling of log loads. The sample log scaling procedures, including sample design and number of log sorts, will be determined by the Authorized Officer in accordance with BLM prescribed procedures.

C. **Log Presentation** – Purchaser shall present logs so that they may be scaled in an economical and safe manner in accordance with the Yard Scaling Agreement(s) required in Section VI.A. of this Exhibit.

- D. Check Scale Government scalers will conduct check scales as set forth below:
 - 1. Check scale shall include at least 200 logs or at least 50 MBF.
 - 2. Utilize a sample that will accurately represent the species and defect associated with the sale.
 - 3. For complex scaling situations, conduct the appropriate analysis to determine sample size. Increase the number of logs check scaled if sample size analysis deems it necessary.
 - 4. Use the following standards to determine the proficiency of individual Government scalers or scalers under contract to BLM:
 - a. <u>Gross Scale</u>. A variance of one point five percent (1.5%) in gross scale is the standard unless otherwise justified.
 - b. Net scale. The allowable variance is as follows:

Check Scaler's Percent Defect in Logs	Scalers Allowable Variance
0-10 percent	2 percent
over 10 percent	.2 x percent defect to a maximum of 5 percent

5. Determinations as to volume of timber made by a Government check scaler in conformance with the standards as set forth herein shall be final. All loads check scaled by Government scalers will be identified with the check scaler's initials legibly marked or painted in the face of the first log in each load. When such checks show a variance in scale in excess of acceptable standards, in two or more consecutive check scales, an adjustment to the volume reported as scaled will be made by BLM. Such adjustments will be made based on the difference between available Government check scales and the original scale during the period covered by the unsatisfactory check scales. Unless otherwise approved in writing by the Contracting Officer, the volume to which this difference will be applied will be 50 percent of the volume scaled between the last satisfactory check and the first unsatisfactory check, 100 percent of the volume scaled during the unsatisfactory check, and 50 percent of the volume between the last unsatisfactory check scale and the next satisfactory check scale.

E. Accountability

1. All logs will be painted and branded at the landing and accounted for in accordance with Section 42.g5 of the contract. Each truck driver shall obtain a load receipt and a

BLM scaler receipt from the Log Truck Ticket Book issued by the Authorized Officer and comply with the instructions specified on the cover of said book. All log/load tickets will be marked with the Exhibit A unit number using a permanent marker or indelible stamp as directed by the Authorized Officer. While products are in transit, the truck driver shall display the load receipt and BLM scaler receipt on the bunk or wing log at the front of the load on the driver's side, or as directed by the Authorized Officer in the case of other forest products. All forest products on each load shall be delivered to the destination listed on the load receipt. The BLM scaler receipt shall be surrendered at the location of BLM scaling, the unloading location, or as requested by BLM.

- 2. The Purchaser shall not haul forest products from the contract area on weekends, Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, and New Year's holidays; or outside the hours of 4:00 am to 8:00 pm daily, unless otherwise approved in writing by the Authorized Officer or designated in the Approved Logging Plan.
- 3. The Purchaser shall furnish BLM a map showing the route which shall be used to haul forest products from the forest product sale area to the scaling location(s). Such route shall be the most direct haul route between the two points, unless another route is approved by BLM. The route of haul may be changed only with advance notice to the Authorized Officer and approval by BLM. The haul route map shall be attached to the Scaling Authorization.
- 4. All log loads will be scaled at scale locations listed on the Scaling Authorization as approved by the Authorized Officer. The Purchaser shall ensure that all scale site owners listed on the Scaling Authorization enter into a Yard Scaling Agreement before requesting BLM approval of the Scaling Authorization. Areas for scaling BLM logs will be designated on the ground and identified on the yard map as required in the Yard Scaling Agreement.
- 5. Any removal of logs from loaded trucks prior to their arrival at the delivery point as required by the contract shall be considered a willful trespass and render the Purchaser liable for damages under applicable law. Any payment made for purchase of such logs shall be deducted from the amount due because of trespass.
- F. **Scaling Lost Forest Products** The value of forest product loads represented by missing load tickets shall be equal to the highest value load for the month in which the lost load is hauled regardless of where the highest value load is scaled. If no loads have been scaled in that month, value will be determined from the closest month in which loads were scaled.
- (VII.) Estimated Volumes and Values The following volume estimates and calculations of value of forest products sold are made solely as an administrative aid for determining payment amounts, when payments are due, the value of forest products subject to any special bonding provisions, and other purposes specified in various portions of the contract. The cutting areas are shown on Exhibit A of the contract.
 - A. **Forest Product Volume Removed from Contract Area** The total volume of removed forest products shall be determined using the Government's records of scaled volumes of forest products skidded or yarded monthly, or a shorter period if agreed to by the Purchaser and Government, to loading points or removed from the contract area.

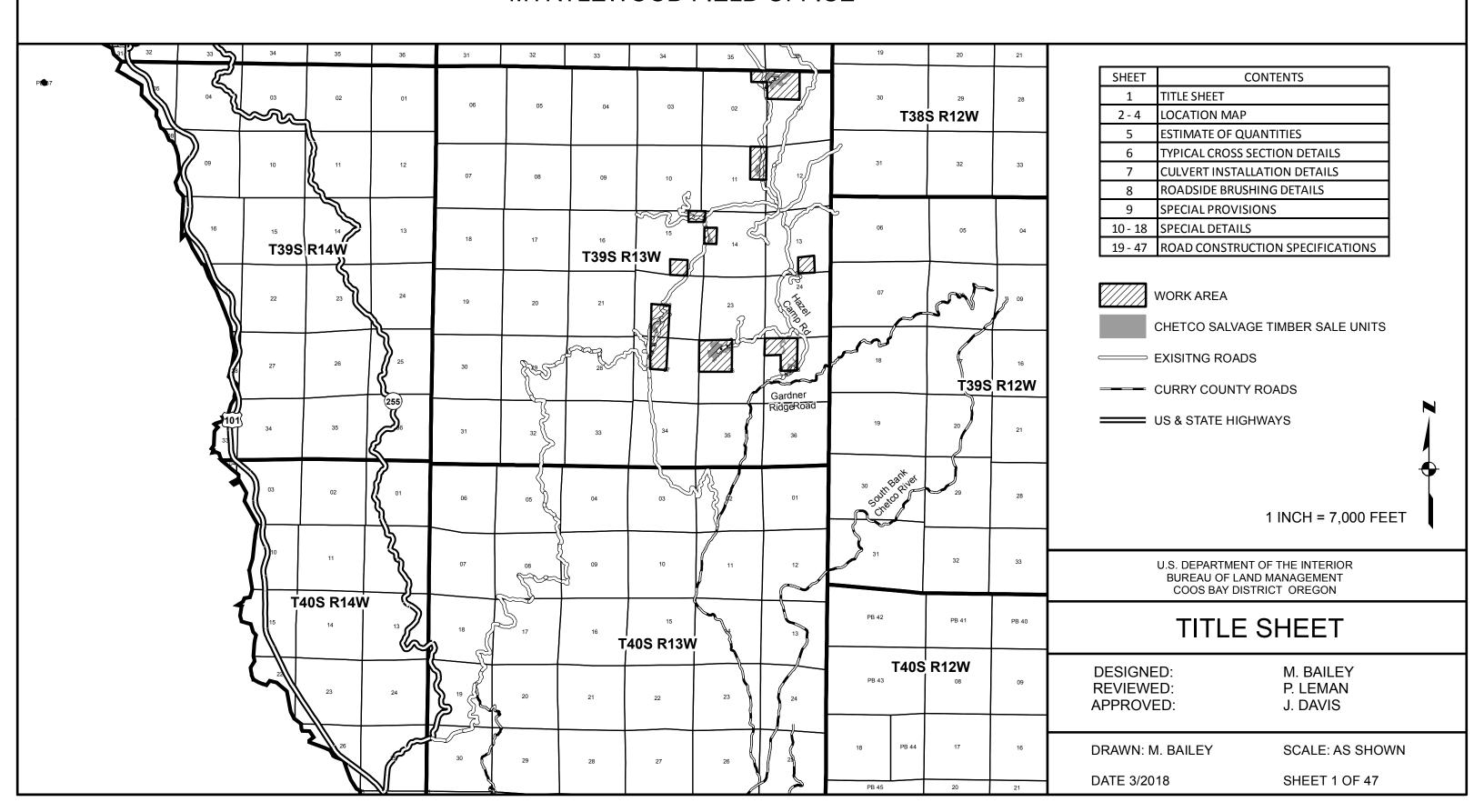
B. **Forest Products Not Yet Removed from Contract Area** – The value of forest products which have not been removed will be determined by multiplying the value per acre as shown below times the amount of acreage subject to the purpose of the value determination, as determined by the Authorized Officer. The estimated volume and value per acre used for determining payment amounts may be modified by the Authorized Officer based upon scale report data on forest product volume removed from the contract area.

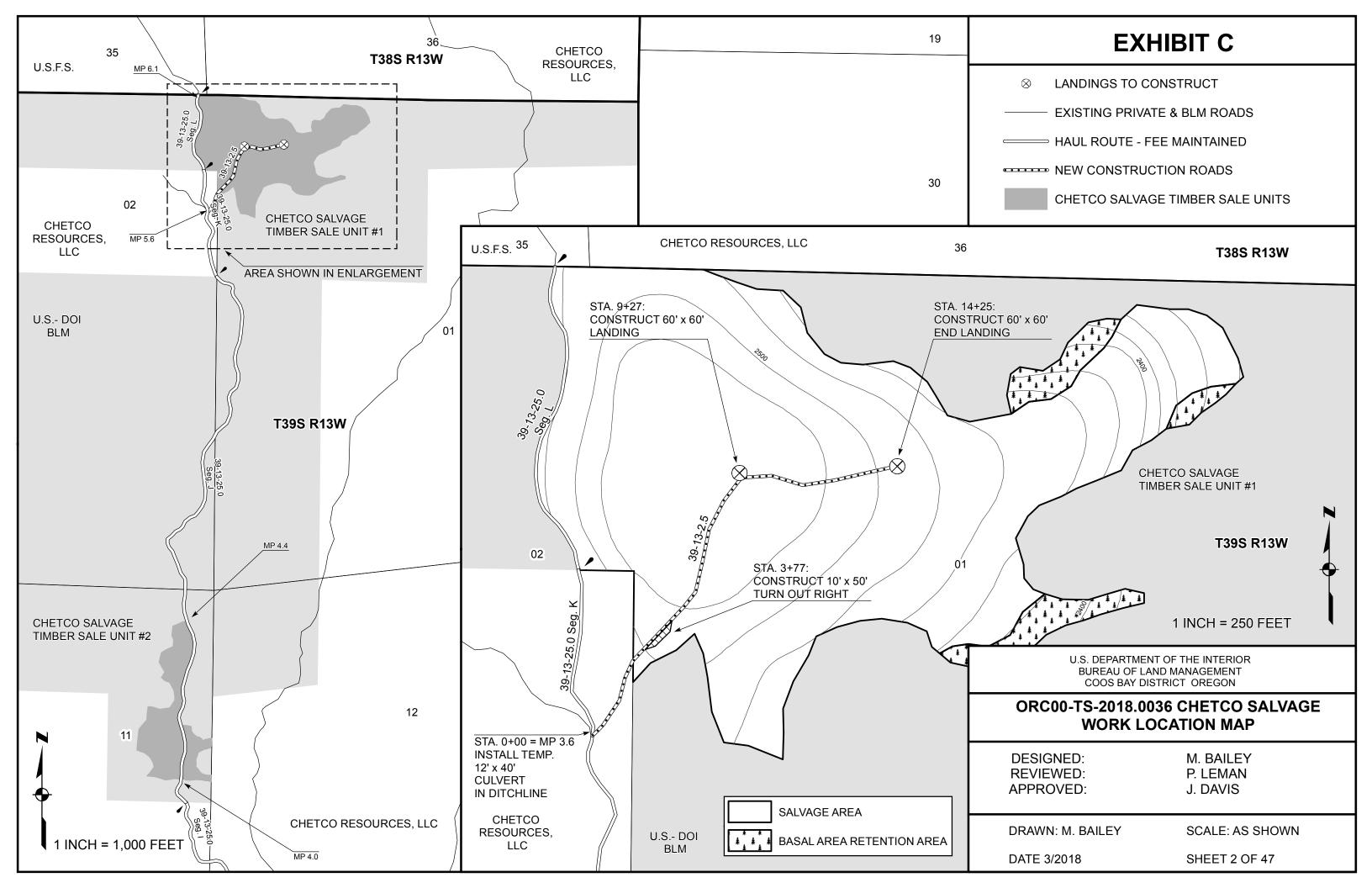
Total Estimated Purchase Price and/or Schedule of Volumes and Values for Forest Products Not Yet Removed from Contract Area

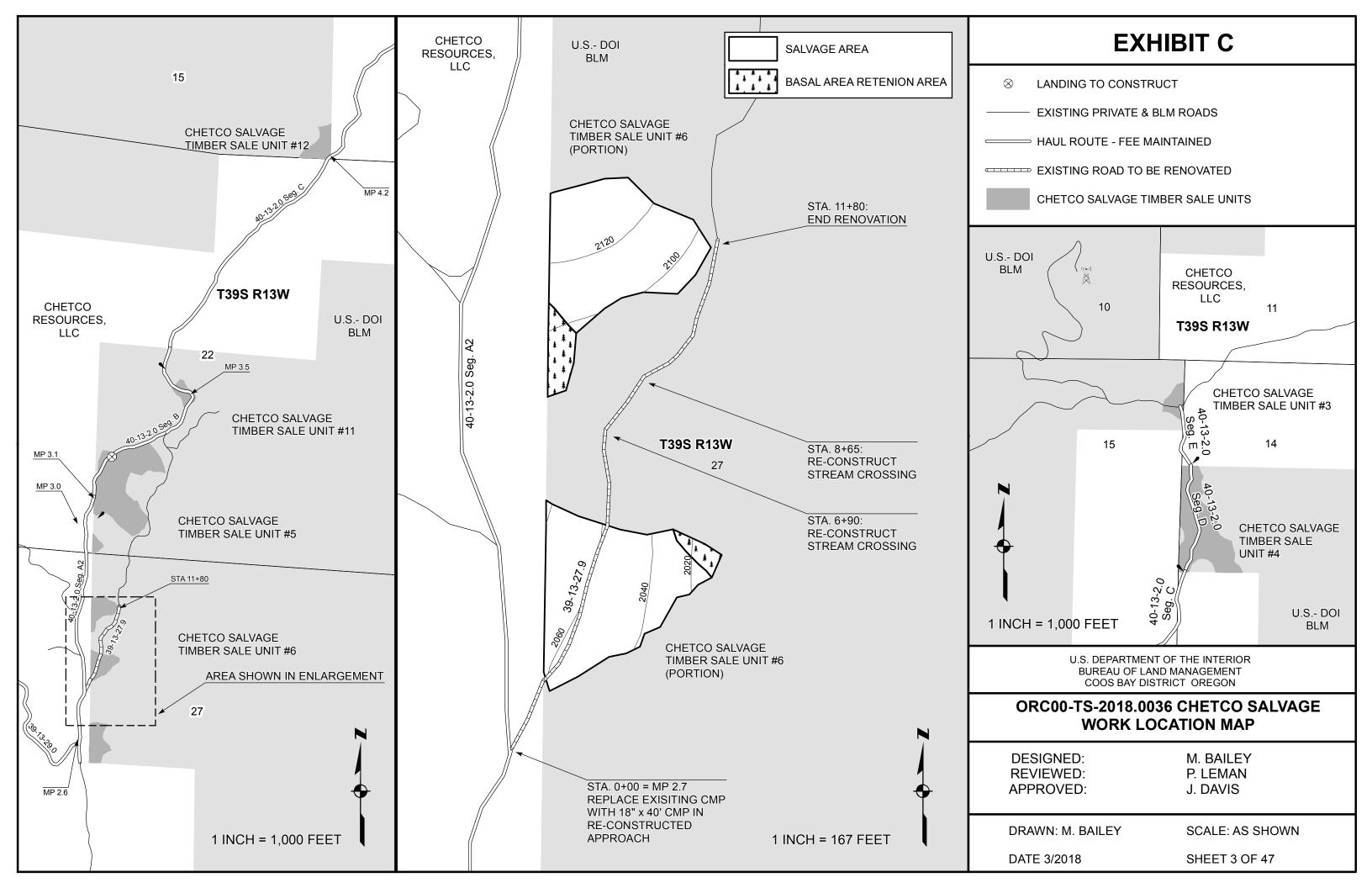
Cutting Area		Total Estimated Volume (MBF)		Total Estimated Purchase Price	
Cutting Area Number	Exhibit A Acres	Volume per Acre	Total Volume	Value per Acre	Total Value
Unit 1	37	14	524	\$1,404.89	\$51,980.80
Unit 2	17	14	238	\$1,388.80	\$23,609.60
Unit 3	1	14	14	\$1,388.20	\$1,388.80
Unit 4	11	14	154	\$1,388.20	\$15,276.80
Unit 5	12	14	168	\$1,388.20	\$16,665.60
Unit 6	5	18	91	\$1,805.44	\$9,027.20
Unit 7	36	14	504	\$1,388.80	\$49,996.80
Unit 8	11	14	154	\$1,388.80	\$15,276.80
Unit 9	4	14	56	\$1,388.80	\$5,555.20
Unit 10	2	14	28	\$1,388.80	\$2,777.60
Unit 11	1	14	14	\$1,388.80	\$1,388.80
Unit 12	2	14	28	\$1,388.80	\$2,777.60
RW	2	14	28	\$1,388.80	\$2,777.60
Sale Total	141				\$198,499.20

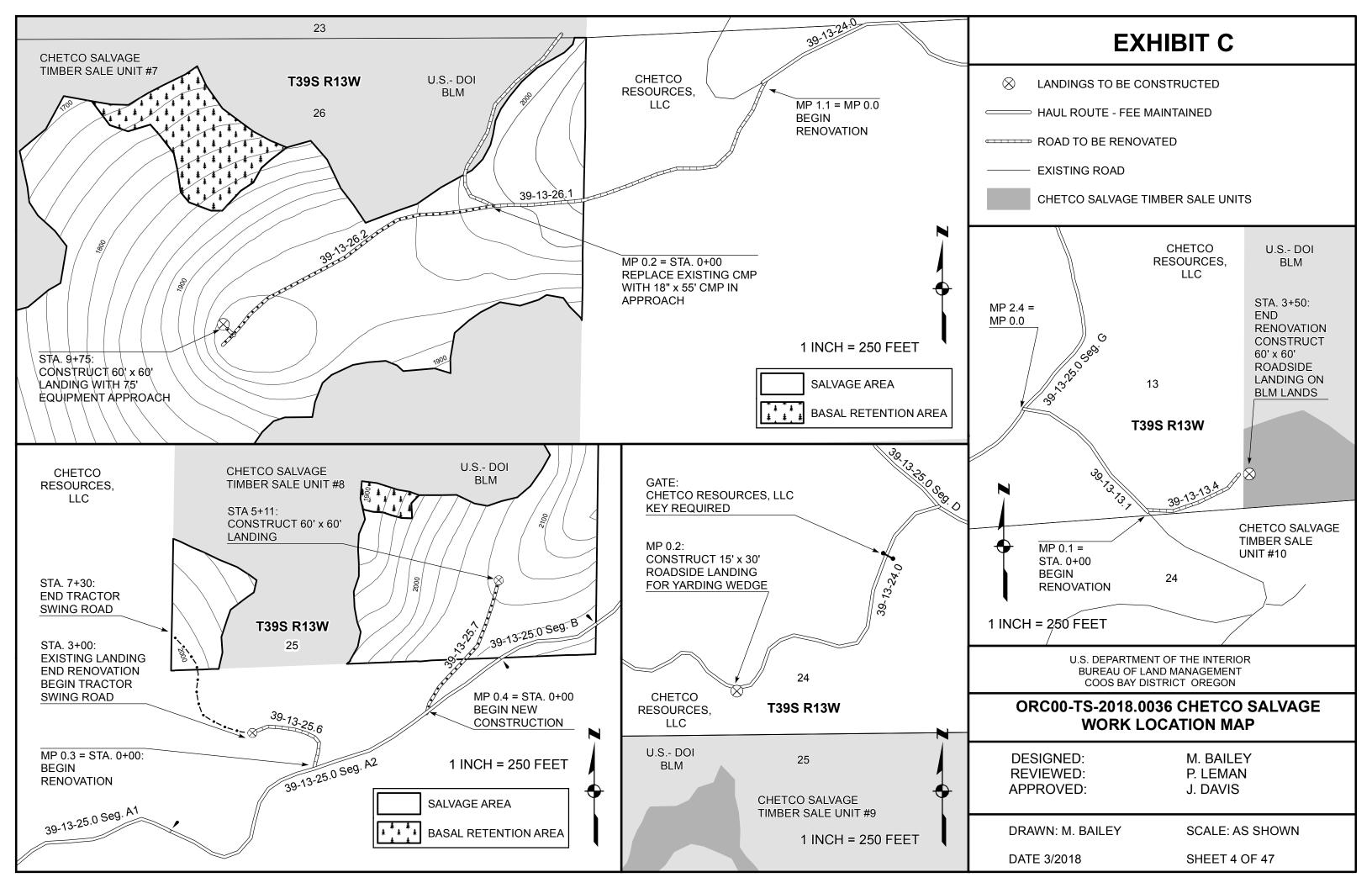
ORC00-TS-2018.0036 CHETCO SALVAGE EXHIBIT C

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT MYRTLEWOOD FIELD OFFICE









			92	Ŋ	EARTH	WORK (DES	SIGNED)	SURFA	CING (1)	C	ULVERTS (2	2)	SEEDING (3)
ROAD NUMBER	CONSTRUCTION	RENOVATION	CLEARING & GRUBBING	ROADSIDE BRUSHING	EXCAVATION	SHORT HAUL 1-500'	LONG HAUL >500'	3-0" BASE ROCK	1.5"-0" CULVERT BEDDING ROCK	12" CPP TEMPORARY	18" CMP	MARKERS	SEED, FERTILIZER & MULCH
SECTION NO.	300	500	200	2100	300	300	300	1000	400/1200	400	400	400	1800
UNITS	STA.	MI.	ACRE	ACRE	CY	STAYD	YD-MI	CY	CY	LF	LF	EA	ACRE
39-13-2.5	14.25		8.0		1,202	431	56			40			0.8
39-13-13.4		0.07	0.2										0.2
39-13-24.0		1.10	0.1										0.2
39-13-25.6		0.06	0.2										0.2
39-13-25.7	5.11		0.3		410	538							0.3
39-13-26.1		0.30		0.7							55	1	0.7
39-13-26.2	9.75		0.6		730		65						0.6
39-13-27.9		0.22	0.5										0.5
40-13-2.0		0.50	0.1					10	10		40	1	0.1
TOTALS:	29.11	4.18	2.8	0.7	2342	969	121	10	10	40	95	2	3.6

NOTE: FOR INFORMATIONAL USE ONLY, QUANTITIES SHOWN ARE NOT PAY ITEMS

- (1) ALL ROCK QUANTITIES ARE TRUCK (LOOSE) MEASURE
- (2) CPP CORRUGATED POLYETHYLENE PIPE CMP - CORRUGATED METAL PIPE
- (3) BLM SHALL PROVIDE NATIVE GRASS SEED (WHEN AVAILABLE)

SECTION	GRADE	SIZE
400/1200	С	1.5 - 0"
1000	Α	3 - 0"
1200	С	1.5 - 0"
1400	3	CLASS 3

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

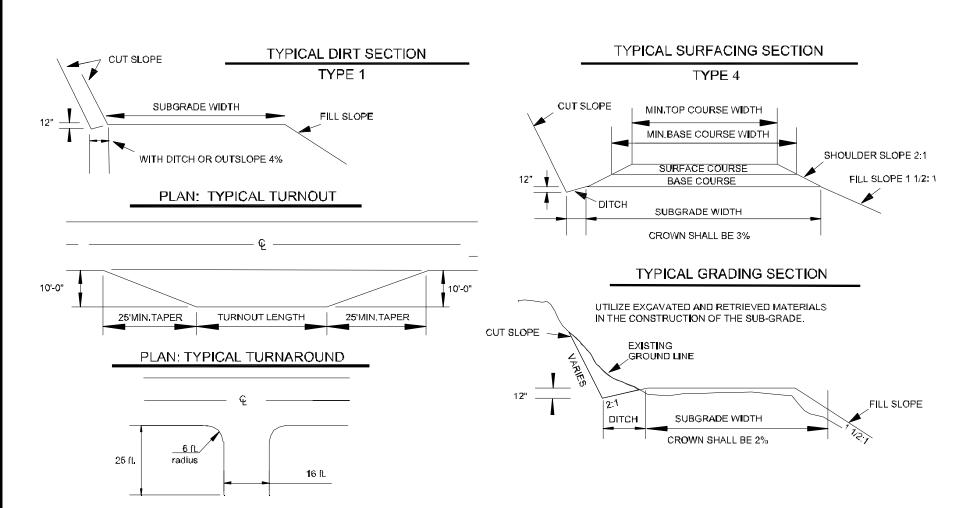
ORC00-TS-2018.0036 CHETCO SALVAGE ESTIMATE OF QUANTITIES

DESIGNED: M. BAILEY
REVIEWED: P. LEMAN
APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: NONE

DATE 3/2018 SHEET 5 OF 47

					ROAD W	IDTH (FT)	CLEARIN	IG WIDTH	BRUSHIN	IG WIDTH		
	ST	⊢	ιχ	O			BEYOND		EXISTING ROADS			
ROAD NUMBER	FROM MILEPOST	TO MILEPOST	LENGTH MILES	TYPICAL SECTION TYPE	SUBGRADE	рітсн	TOP CUT	TOE FILL	LEFT	RIGHT	REMARKS	
39-13-2.5	0.00	0.27	0.27	1	14	0	10	5			4% OUTSLOPED	
39-13-13.4	0.00	0.07	0.07	1	14	0					4% OUTSLOPED	
39-13-24.0	0.00	1.10	1.10	4	16	2					3% CROWNED W/DITCH	
39-13-25.6	0.00	0.06	0.06	1	14	0					4% OUTSLOPED	
39-13-25.7	0.00	0.10	0.10	1	14	0	10	5			4% OUTSLOPED	
39-13-26.1	0.00	0.30	0.30	4	16	2			10	10	3% CROWNED W/DITCH	
39-13-26.2	0.00	0.18	0.18	1	14	0	10	5			4% OUTSLOPED	
39-13-27.9	0.00	0.22	0.22	1	14	0					4% OUTSLOPED	
40-13-2.0	2.60	3.10	0.50	4	16	2					3% CROWNED W/DITCH	



NOTES

1 EXTRA SUBGRADE WIDTHS

FILL WIDENING:

- 1 FT TO SHOULDER WIDTH FOR FILLS 1-6 FT IN HEIGHT
 2 FT OF SHOULDER WIDTH FOR FILLS 6-10 FT IN HEIGHT
- 3 FT OF SHOULDER WIDTH FOR FILLS > 10 FT IN HEIGHT

CURVE WIDENING: ADD ADDITIONAL SURFACING WIDTH TO INSIDE OF CURVE FOR CURVE WIDENING AS SHOWN ON THE PLANS OR AS FOLLOWS:

- ADD 4 FT FOR CURVES 90'-120' RADIUS
- ADD 5 FT FOR CURVES 60'-90' RADIUS

② CUT AND FILL SLOPES

CUT AND FILL SLOPES WILL BE AS FOLLOWS BY MATERIAL TYPE AND ALSO AS SHOWN ON THE PLANS & SPECIFICATIONS:

MATERIALS	CUT SLOPES	FILL SLOPES
COMMON	1/2:1	1 1/2:1
SOFT ROCK & SHALE	1/2:1	1 1/2:1
SOLID ROCK	1/4:1	REPOSE

(3) FULL BENCH

FULL BENCH CONSTRUCTION IS REQUIRED ON ALL SLOPES EXCEEDING 60% UNLESS OTHERWISE SHOWN ON THE PLANS.

4 SURFACING TYPE

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

(5) SURFACING TURNOUTS, CURVE WIDENING AND ROAD APPROACH APRONS SHALL BE SURFACED.

(6) <u>DITCHES</u> 2:1 INSLOPE FROM ROAD SUBGRADE. DITCH OUTSLOPE WILL BE AS SPECIFIED IN NOTE 2 ABOVE.

7 TURNOUTS

- A. WIDTH 10 FT. IN ADDITION TO SUBGRADE
- WIDTH, OR AS SHOWN ON THE PLANS
 B. LOCATED APPROXIMATELY AS SHOWN ON THE PLANS

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

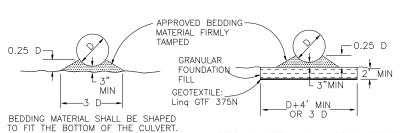
ORC00-TS-2018.0036 CHETCO SALVAGE ESTIMATE OF QUANTITIES

DESIGNED: M. BAILEY
REVIEWED: P. LEMAN
APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: NONE

DATE 3/2018 SHEET 6 OF 47

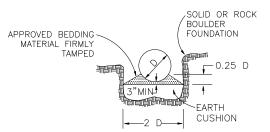
BEDDING OF CULVERTS



BEDDING OF CULVERTS ON STABLE NATURAL GROUND FOUNDATION OR COMPACTED EMBANKMENT

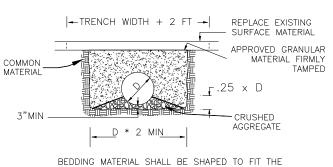
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT.

BEDDING OF CULVERTS ON SOFT SPONGY OR UNSTABLE SOIL FOUNDATION



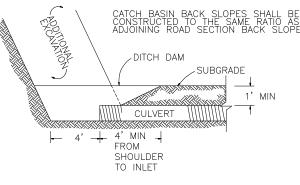
BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. EARTH CUSHIONING OF SILTY CLAY LOAM OR SAND MAY BE USED IF MATERIAL CAN BE PLACED IN THE DRY CONDITION. IF THE EXCAVATION IS WET, USE GRANULAR FOUNDATION FILL MATERIAL. MAIN—TAIN 8" MIN. DEPTH BETWEEN HIGH POINTS OF ROCKS AND/OR BOULDERS AND THE BOTTOM OF THE CULVERT

BEDDING OF CULVERT IN SOLID ROCK OR BOULDER FOUNDATION

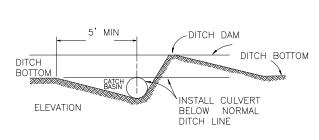


BEDDING MATERIAL SHALL BE SHAPED TO FIT THE BOTTOM OF THE CULVERT. BACKFILL MATERIAL SHALL BE APPROVED GRANULAR MATERIAL.

BEDDING OF CULVERTS ON EXISTING SURFACED ROADS

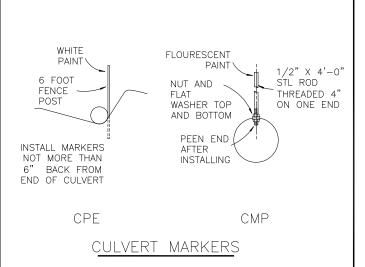


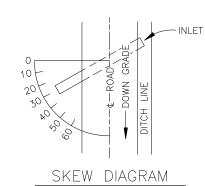
DAM DITC DITCH BOTTOM BASIN CULVERT SKEW CULVERT AS ROAD SHOULDER AT-DIRECTED SUBGRADE PLAN VIEW



CROSS SECTION AT CATCH BASIN

CATCH BASIN

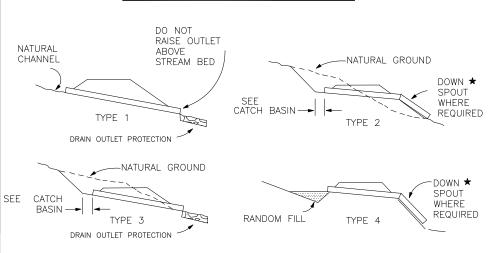




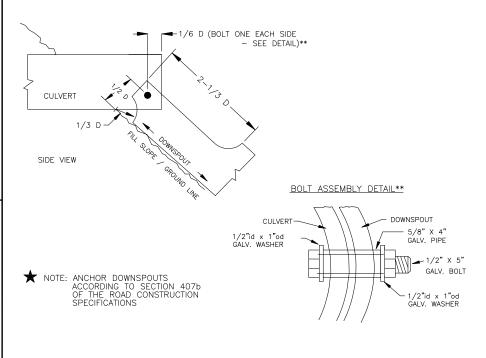
HORIZONTAL SKEW SHALL BE AS SHOWN, OR PERPENDICULAR TO DITCH LINE IN GRADE DIPS. THE GRADE OF CROSSDRAINS SHALL BE AT LEAST 2% GREATER THAN THE GRADE OF THE DITCH, WITH A MAXIMUM GRADIENT OF 5%

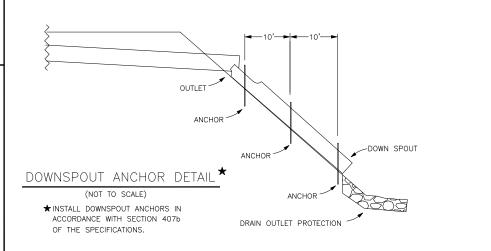
BANDS SHALL MEET MANUFACTURER'S SPECIFICATIONS

CULVERT INSTALLATION TYPES



USE "ADJUSTABLE ELBOW" FOR CPE AND CMP DOWNSPOUTS





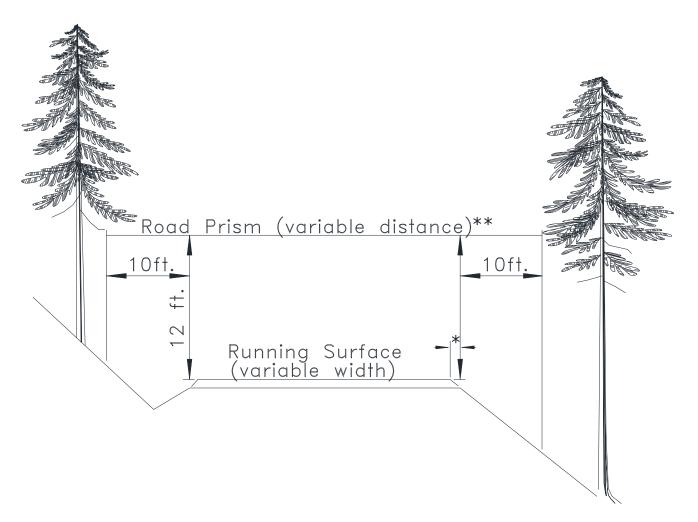
U.S. DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** COOS BAY DISTRICT OREGON

ORC00-TS-2018.0036 CHETCO SALVAGE **CULVERT INSTALLATION DETAILS**

DESIGNED: M. BAILEY **REVIEWED:** P. LEMAN APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: NONE

DATE 1/2018 SHEET 7 OF 47



- * Variable distance between running surface and start of fill slope.
- ** All areas within the variable distance shall be free of all vegetation capable of growing one (1) foot in height or higher, and free of all over—hanging limbs and branches 12 feet in elevation above the running surface.

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

ORC00-TS-2018.0036 CHETCO SALVAGE ROADSIDE BRUSHING DETAILS

DESIGNED: M. BAILEY
REVIEWED: P. LEMAN
APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: NONE

DATE 3/2018 SHEET 8 OF 47

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SPECIAL PROVISIONS

Purchaser Responsibility

The Purchaser shall avoid damaging any aggregate surfaced roads, and will be responsible for the repair of any road damaged as a result of the activity. Aggregate roads shall be left in the same condition that they were prior to logging operations.

Seasonal Restrictions

All road construction, renovation, and decommissioning work shall be done during the dry construction season, avoiding precipitation periods, between June 1 and October 15 or as directed by the Authorized Officer.

Over-wintering

All natural-surfaced new construction shall not over-winter without being either decommissioned, as specified in the Exhibit D, or winterized, in accordance with the 1700 Erosion Control specifications, prior to the first rains of the wet season, but no later than October 15 in the year of construction.

Spill Containment

Spill containment kit is required on-site during work. Kit contents shall include absorbent booms (two bales, four 8" x 10" booms/bale), absorbent pads (two bales, one hundred 17" x 19" x ¼" pads/bale), heavy duty garbage bags, gloves (PVC and latex), and goggles.

Equipment Washing

The Purchaser is responsible for vehicle/equipment entrance cleaning in accordance with the Exhibit F.

Removed Culverts

All culverts removed under the contract become the property of the Purchaser and shall be legally disposed off of BLM and private lands.

Native Seed

Native Seed shall be provided by the BLM when available.

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SPECIAL DETAILS

RENOVATION OF CHECTO RESOURCES, LLC ROAD NO. 39-13-13.4 Sta. 0+00 to 3+50

Sta.	Remarks
0+00	Junction with Chetco Resources, LLC Road No. 39-13-13.1 at MP 0.1. Begin clearing & grubbing and renovation in accordance with Sections 200, 300, and 500 of the Road Specifications and Typical Cross Section Sheet No. 6.
	Begin clearing & grubbing of the existing subgrade. Re-construct roadway approach in the ditch line of Private Road No. 39-13-13.1
3+50	Property line on right edge of roadway. Construct 60' x 60' roadside landing area on BLM lands.
	End renovation.

RENOVATION OF CHETCO RESOURCES, LLC ROAD NO. 39-13-24.0 (Roadside Landing Construction Only) MP 0.00 to 1.10

MP	Remarks
0.00	Junction with Chetco Resources, LLC Road No. 39-13-25.0 Seg. D at MP 1.4.
0.20	Construct 15' x 60' roadside landing left in accordance with Sections 200, 300, and 500 of the Road Construction Specifications and Typical Cross Section Sheet No. 6.
0.82	Junction. Renovate BLM Road No. 39-13-26.1 left.
	End renovation.

RENOVATION OF CHETCO RESOURCES ROAD, LLC ROAD NO. 39-13-25.6 Sta. 0+00 to 7+30

Sta.	Remarks					
0+00	Junction with Chetco Resources, LLC Road No. 39-13-25.0 Seg. A2 at MP 0.3. Begin clearing & grubbing and renovation in accordance with Sections 200, 300, and 500 of the Road Specifications and Typical Cross Section Sheet No. 6.					
	Begin clearing & grubbing of the existing subgrade. Re-construct roadway approach in the ditch line of Private Road No. 39-13-25.0 Seg. A2					
3+00	Renovate existing roadside landing area left.					
	End renovation of existing roadway. Continue clearing & grubbing of existing					

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5+85	sub-grade (12' width) for use as a tractor swing road. Property line. Leave Chetco Resources, LLC lands and enter BLM lands & Chetco Salvage timber sale Unit 8.
7+30	Property line. End of clearing & grubbing.
	RENOVATION OF BLM ROAD NO. 39-13-26.1 MP 0.00 to 0.14
MP	Remarks
0.00	Junction with Chetco Resources, LLC Road No. 39-13-24.0 at MP 1.10. Begin renovation, culvert installation and roadside brushing in accordance with Sections 500, 600, 700, and 2100 of the Road Specifications, Typical Cross Section Sheet No. 6, and Roadside Brushing Detail Sheet No. 8.
0.20	Junction. Construct BLM Road No. 39-13-26.2 left. Replace existing CMP with 18" x 55' CMP cross drain culvert in approach of new road construction. Install culvert inlet marker.
0.30	End renovation.
	RENOVATION OF BLM ROAD NO. 39-13-27.9 Sta.0+00 to 11+80
Sta.	Remarks
0+00	Junction with Chetco Resources, LLC Road No. 40-13-2.0 Seg. A2 at MP 2.7. Begin clearing & grubbing and renovation in accordance with Sections 200, 300, & 500 of the Road Specifications and Typical Cross Section Sheet No. 6.
NOTE:	Drift material back from Sta. 2+00 to Sta. 0+00 to re-construct approach onto the Chetco Resources, LLC Road No. 40-13-2.0 Seg. A2. Grade of re-constructed approach shall not exceed 15% adverse.
1+63	Property Line. Leave Chetco Resources, LLC lands and enter BLM lands & Chetco Salvage timber sale Unit 6.
6+90	Re-construct existing stream crossing utilizing native boulders & fractured rock within the clearing limits as durable fill material.
8+65	Re-construct existing stream crossing utilizing native boulders & fractured rock

11+80

End renovation.

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RENOVATION OF CHETCO RESOURCES, LLC ROAD NO. 40-13-2.0 Seg. A2 (Culvert Replacement Only) MP 2.6 to 3.1

MP	Remarks
2.6	Junction with Chetco Resources, LLC Road No. 39-13-29.0 at MP 3.5.
2.7	Replace existing CMP with new 18" x 40' CMP cross drain culvert in approach of BLM Road No. 39-13-27.9 in accordance with Sections 400, 500, 600, 1000, and 1200 of the Road Specifications and Culvert Installation Detail Sheet No. 7.
	Utilize 10 CY of 1.5-0" minus crushed aggregate meeting the specifications of Section 1200 or other granular fill material as approved by the Authorized Officer as bedding and backfill material. Place and compact 10 CY of 3-0" minus crushed aggregate surfacing meeting the specifications of Section 1000 or other surfacing as approved by the Authorized Officer as replacement base course on the roadway. Install culvert inlet marker.
3.1	End Segment A2.
	End renovation.

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CONSTRUCTION DETAIL SHEET ROAD NO. 39-13-2.5

GENERAL

Purchaser shall construct Road No. 39-13-2.5 from Sta. 0+00 to Sta. 14+25 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Sheet No. 6.

TURNOUTS

Construct a 10' x 50' turn out right at Sta. 3+77.

SUBGRADE

The subgrade shall be cleared, grubbed, excavated and compacted in accordance with the Sections 200 and 300 of the Road Specifications End-haul of approximately 370 CY of excess excavated material is required from Sta. 0+00 to 3+00. Excess excavated material shall be utilized in the construction of the landing at Sta. 9+27. Maximum cut depth is 3.9' and the maximum fill depth is 1.5' at centerline.

DRAINAGE FEATURES

Install a 12" x 40' temporary culvert in the ditchline at the junction with Chetco Resources, LLC Road No. 39-13-25.0 Seg. K. Outslope &/or inslope at 4% with no ditch to achieve drainage.

SURFACING

None.

ALIGNMENT

The roadway shall be constructed within posted or flagged right-of-way boundaries or as shown on the location map. Minimum curve radius shall be one hundred (100) feet. The final L-Line location of the road has been marked with wooden stakes. Slope staking and reference marking shall be completed by the Coos Bay BLM prior to construction.

GRADE

The grade shall not exceed 15% adverse and 20% favorable.

TRUCK TURNAROUND

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None.

LANDINGS

Construct a 60' x 60' landing at Sta. 9+27 and a 60' x 60' end landing at Sta. 14+25. The grade of landings and approaches shall not exceed 5%.

SOIL STABILIZATION

Apply seed, fertilizer, and mulch in accordance with Section 1800 of the Road Construction specifications.

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CONSTRUCTION DETAIL SHEET ROAD NO. 39-13-25.7

GENERAL

Purchaser shall construct Road No. 39-13-25.7 from Sta. 0+00 to Sta. 5+11 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Sheet No. 6.

TURNOUTS

None.

SUBGRADE

The subgrade shall be cleared, grubbed, excavated and compacted in accordance with the Sections 200 and 300 of the Road Specifications End-haul of approximately 150 CY of excess excavated material is required from Sta. 0+00 to 1+00. Excess excavated material shall be utilized as embankment from Sta. 1+00 to 5+11. Maximum cut depth is 3.1' and the maximum fill depth is 2.7' at centerline.

DRAINAGE FEATURES

Outslope &/or inslope at 4% with no ditch to achieve drainage.

SURFACING

None.

ALIGNMENT

The roadway shall be constructed within posted or flagged right-of-way boundaries or as shown on the location map. Minimum curve radius shall be one hundred (100) feet. The final L-Line location of the road has been marked with wooden stakes. Slope staking and reference marking shall be completed by the Coos Bay BLM prior to construction.

GRADE

The grade shall not exceed 19% favorable. There are no adverse grades within the road.

TRUCK TURNAROUND

None.

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LANDINGS

Construct a 60' x 60' end landing at Sta. 5+11. The grade of landings and approaches shall not exceed 5%.

SOIL STABILIZATION

Apply seed, fertilizer, and mulch in accordance with Section 1800 of the Road Construction specifications.

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CONSTRUCTION DETAIL SHEET ROAD NO. 39-13-26.2

GENERAL

Purchaser shall construct Road No. 39-13-26.2 from Sta. 0+00 to Sta. 9+75 as shown on the location map. This work shall be accomplished in accordance with details and road specifications which follow:

SHAPING

The roadway shall be constructed and shaped to conform to standards shown on Typical Cross Section Sheet No. 6.

TURNOUTS

None.

SUBGRADE

The subgrade shall be cleared, grubbed, excavated and compacted in accordance with the Sections 200 and 300 of the Road Specifications End-haul of approximately 350 CY of excess excavated material from roadway and landing construction is required from Sta. 6+50 to 9+75. Excess excavated material shall be utilized as embankment from Sta. 0+00 to 1+61. Maximum cut depth is 3.1' (roadway) and 4.1' (landing) and the maximum fill depth is 5.1' at centerline.

DRAINAGE FEATURES

The roadway shall be outslope &/or inslope at 4% with no ditch to achieve drainage. An extended cross drain culvert from BLM Road No. 39-13-26.1 shall pass through the roadway embankment at approximately Sta. 0+49.

SURFACING

None.

ALIGNMENT

The roadway shall be constructed within posted or flagged right-of-way boundaries or as shown on the location map. Minimum curve radius shall be one hundred (100) feet. The final L-Line location of the road has been marked with wooden stakes. Slope staking and reference marking shall be completed by the Coos Bay BLM prior to construction.

GRADE

The grade shall not exceed 15% favorable and 17% adverse.

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TRUCK TURNAROUND

None.

LANDINGS

Construct a 60' x 60' step landing with a 75' equipment approach right at Sta. 9+75. The grade of the landing shall not exceed 5% and the equipment approach shall not exceed 25%. Roadside decking areas for ground based logging are available from Sta. 4+75 to 5+80.

SOIL STABILIZATION

Apply seed, fertilizer, and mulch in accordance with Section 1800 of the Road Construction specifications.

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ROAD CONSTRUCTION SPECIFICATIONS

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

<u>Section</u>	
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

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GENERAL – 100

101 - Prework Conference(s):

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

The purpose 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 subcontractor(s).

102 - Definitions:

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

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

ACI - American Concrete Institute

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

ASTM - American Society for Testing and Materials.

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

BLM - Bureau of Land Management

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Road Centerline - The longitudinal center of a roadbed.

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

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

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

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

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

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

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

<u>Slope ratio notation (horizontal:vertical)</u> – Slope ratios for constructed cut and fill slopes are expressed as a ratio of horizontal units to vertical units.

Spalls - Flakes or chips of stone.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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. Plastic limits and plasticity index of soil. AASHTO T 90 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. Resistance to abrasion of small size coarse aggregate by use of AASHTO T 96 the Los Angeles machine. Relationship between soil moisture and density of soil. AASHTO T 99 Method A - 4" mold, soil passing a No. 4 sieve 25 blows/layer & 3 layers. Method C - 4" mold, soil passing a 3/4 inch sieve 25 blows/laver & 3 lavers. Method D - 6" mold, soil passing a 3/4 inch sieve. 56 blows/layer & 3 layers. Slump of hydraulic cement concrete. AASHTO T 119 AASHTO T 152 Air content of freshly mixed concrete. AASHTO T 166 Specific Gravity of compacted Bituminous Mixtures. Shows relative portions of fine dust or claylike materials in soil or AASHTO T 176 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. Sand Cone. Density of soil in place: For subgrade use 6-inch or AASHTO T 191 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.

Durability of aggregates based on resistance to produce fines.

AASHTO T 210

AASHTO T 224 Correction for coarse particles in the soil.

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

AASHTO T 248 Reducing field samples of aggregate to testing size by mechanical

splitter, quartering, or miniature stockpile sampling.

ASTM D 4564 Determination of relative density of cohensionless soils.

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

- 103 Compaction equipment shall meet the following requirements:
- 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 - <u>Smooth-wheel power rollers.</u> Smooth-wheel power rollers shall either be of the 3-wheel type, weighing not less than 10 tons, or of the tandem type, 2-wheel or 3-wheel, weighing not less than 8 tons. Smooth-wheel roller shall provide compression of 325 pounds per linear inch of width of rear wheels or drum.

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Pneumatic-tired rollers. Pneumatic-tired rollers shall be of the double-axle type equipped with pneumatic tires each of equal size and type. The spacing between the sidewalls of adjacent tires shall not exceed 5 inches and the rear tires shall be staggered in relation to the front tires. The rolling width of the unit shall be not less than 60 inches, exclusive of the power unit. The roller shall be so constructed that the contact pressure is uniformly distributed on all of the tires, and the tires shall be inflated to maintain the air pressure in the several tires within a total tolerance of 5 pounds per square inch. The roller shall be so constructed that the total weight shall be between 1,000 and 2,000 pounds per tire. The actual operating weight of the rollers shall be as ordered by the Authorized Officer.

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

- Grid roller. A grid roller shall consist of two or more cylindrical drums independently mounted on a common shaft in a rigid frame. Each drum shall have a minimum outside diameter of 5 feet and a minimum width of 2 feet 6 inches. The overall width of the roller exclusive of frame shall be not less than 5 feet 6 inches of which not more than 6 inches shall be used for center spacing between two roller drums. The face of the drums shall have the appearance of woven open-mesh made by interlacing bars of not less than 1-1/4 inches nor more than 1-3/4 inches diameter space spaced on 4-1/2 inches to 5-1/2 inches center. Net opening between the bars shall be not less than 3 inches nor more than 4 inches. The roller shall be so constructed that counterweights can be used to adjust the gross weight of the roller to not less than 27,000 pounds. The grid roller shall be drawn by a power unit capable of propelling the fully loaded roller through 6 inches of loose embankment material at a speed of at least 4 miles per hour.
- Vibratory roller. The drum diameter shall be not less than 48 inches, the drum width not less than 58 inches, and have a turning radius of 15 feet or less. Vibration frequency shall be regulated in steps to 1400, 1500, and 1600 vibrations per minute (VPM), corresponding to engine speeds of 1575, 1690, and 1800 RPM. The centrifugal force developed shall be 7 tons at 1600 RPM. It shall be activated by a power unit of not less than 25 horsepower. The vibratory roller shall be self-propelled or drawn by a vehicle of sufficient horsepower to enable the unit to travel through a loose layer of material at a speed ranging from 0.9 mile to 1.8 miles per hour, as directed by the Authorized Officer.

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

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.

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

CLEARING AND GRUBBING - 200

- This work shall consist of clearing, grubbing, removing and disposing of vegetation, debris, surface objects, and protruding obstructions within the clearing limits in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans (and as staked on the ground).
- 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 (and as staked on the ground).
- 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.
- Clearing shall consist of the removal and disposal of trees, logs, rotten material, brush, and other vegetative materials and surface objects in accordance with these specifications and within the limits established for clearing as specified under Subsection 202 and as staked on the ground.
- 203a Brush under 2 feet in height need not be cut within the limits established for clearing.
- 203b Standing trees and snags to be cleared shall be felled within the limits established for clearing (unless otherwise authorized).
- 203c Disposal of logs from private timber cleared within the limits established as shown on the plans shall consist of decking at a location designated by the Authorized Officer.
- Grubbing shall consist of the removal and disposal of stumps, roots, and other wood material embedded in the ground and protruding obstacles remaining as a result of the clearing operation in accordance with Subsections 204a, 204b, and

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204c, 204d, and 204e between the top of the cut slope and the toe of the fill slope. Undisturbed stumps, roots and other solid objects which will be a minimum of 3 feet below subgrades or slope surfaces or embankments are excluded.

- 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.
- 204e Roots and embedded wood material shall be removed to a depth not less than 1 foot below embankment subgrades or slope surfaces.
- 205 Clearing and grubbing debris shall not be placed or permitted to remain in or under road embankment sections.
- Clearing and grubbing debris shall be disposed of by scattering in accordance with Subsection 210 and/or piling in accordance with Subsection 211.
- 210 Disposal of clearing and grubbing debris stumps and cull logs shall be by scattering over government owned lands outside of established clearing limits in a manner acceptable to the Authorized Officer. The areas for such scattering shall have the prior approval of the Authorized Officer.
- Disposal of clearing and grubbing debris stumps and cull logs on non-government property by scattering and piling this material outside of clearing limits will be permitted provided the Purchaser obtains a written permit from the property owner on whose property the disposal is to be made. The Purchaser shall furnish the Authorized Officer a certified copy of the permit and a written release from the property owner absolving the Government from responsibilities in connection with the disposal of debris on said property.
- Disposal of clearing and grubbing debris stumps and cull logs shall be by piling on government lands outside of established clearing limits in an area and in a manner acceptable to the Authorized Officer.
- 212 No grading will be permitted prior to completion and approval by the Authorized

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Officer of the required clearing and grubbing work, except that stump grubbing may proceed with the excavation of the road prism.

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

EXCAVATION AND EMBANKMENT - 300

- This work shall consist of excavating, overhaul, placement of embankments, backfilling, borrowing, leveling, ditching, grading, insloping, outsloping, crowning and scarification of the subgrade, compaction, disposal of excess and unsuitable materials, and other earth-moving work in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Excavation shall 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.
- 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.
- 304 Borrow shall consist of suitable material required for the construction of embankments or for other portions of the work; such material shall be obtained from sources selected by the Purchaser at his option and approved by the Authorized Officer.
- Embankment construction shall consist of the placement of excavated and borrowed materials, backfilling, leveling, grading, compaction, and other earthmoving work necessary for the construction of the roadway and landings in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and as marked on the ground with stakes.
- 305a Material used in the construction of embankment sections shall be free of stumps, cull logs, brush, muck, sod, roots, frozen material, and other deleterious materials and shall be placed and compacted as specified.
- 305b Embankment materials shall be placed in successive parallel layers on areas cleared of stumps, cull logs, brush, sod, and other vegetative and deleterious

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materials, except as provided under Subsection 204. Roadway embankments of earth material shall be placed in horizontal layers not exceeding 8 inches in depth.

- Embankments formed of material containing less than 25 percent rock not larger than 8 inches in the greatest dimension shall be placed in 12 inch layers.

 Material containing more than 25 percent rock not larger than 12 inches in the greatest dimension shall be placed in successive layers not exceeding 2 feet in thickness. Individual rocks and boulders greater than 12 inches in diameter may be used to construct 12-foot embankment layers, provided they are carefully distributed, with interstices filled with fine material to form a dense and compact mass.
- 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.
- Layers of embankment, 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 103b and 103f.
- 306a Minimum compaction for each layer of embankment and selected roadway excavation material placed at optimum moisture shall be 6 passes over each fullwidth layer) or fraction thereof.
- 306d Compacted materials within 3 feet of the established subgrade elevation shall have a density in place of not less than 95 percent of maximum density, and below the 3-foot limit, these materials shall have a density in place of not less than 90 percent of maximum density. Maximum density shall be determined by AASHTO T 99, Method A or Method D.
- The final subgrade including shall be compacted to full width with compacting equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be 1 hour of continuous compacting for each 4 stations of road or a fraction of as measured along the center line of the constructed road.
- 306f Compaction of embankment layers placed as specified under Subsection 305b above shall be accomplished by routing construction equipment over full width of embankment structures (except as specified in Subsection 306).

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- 306g All fill slopes shall be compacted to (75) percent of maximum density, either by walking with cat/excavator or by pressing with excavator bucket, to prevent surface erosion and raveling.
- 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.
- In solid rock cuts where pockets that will not drain are formed by blasting below the subgrade elevation, drainage shall be provided by ditching to the edge of the subgrade and backfilling to grade, and compacting the pockets and the ditch with rock fragments, gravel, or other suitable porous material.
- 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.
- 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.
- When heavy clays, muck, clay shale, or other deleterious material for forming the roadbed is encountered in cuts at subgrade, it shall be excavated to a minimum depth of 2 feet below the subgrade elevation and the excavated area backfilled with a selected borrow material approved by the Authorized Officer. The backfill material shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density in accordance with the requirements of Subsection 306. Unsuitable material shall be disposed of as directed by the Authorized Officer.
- 316 Borrow material from sources selected at the Purchaser's option shall be inspected and approved in writing by the Authorized Officer prior to placement.
- 318 Selected borrow or selected roadway excavation material shall be uniformly spread on the roadbed in lifts not to exceed 6 inches in depth until the required thickness shown on the plans is attained.

Each layer shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width in accordance with the requirements of Subsection 306.

- Ditches shall conform to the slope, grade, dimensions, and shape of the required cross section shown on the plans. Roots, stumps, rocks, and other projections shall be removed to form smooth, even slopes.
- Excess excavated, unsuitable, or slide materials shall not be disposed of on areas where the material will encroach on a stream course or other body of water. Such materials shall be disposed of in accordance with Subsection 321c. Materials not disposed of in this manner shall be retrieved and disposed of at the Purchaser's expense and at the direction of the Authorized Officer.
- 321c End-dumping will be permitted for the placement of excess materials under Subsection 321 in designated disposal areas or within areas approved by the Authorized Officer. Watering, rolling, and placement in layers are not required. Materials placed shall be sloped, shaped, and otherwise brought to a visible condition acceptable to the Authorized Officer.
- When so indicated on the plans, selected coarse rock encountered in the excavation shall be conserved for slope protection or special rock embankment purposes and placed in accordance with the requirements and details of section 1400 of these specifications and as shown on the plans.
- 324 Excavated material shall not be allowed to cover boles of standing trees to a depth in excess of 2feet on the uphill side.
- The finished grading shall be approved in writing by the Authorized Officer. The
 Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of
 the grading operations and the start of surfacing operations.

PIPE CULVERTS - 400

401 - This work shall consist of furnishing and installing pipe culverts 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 may be required at the option of the Authorized Officer, in which case a reduction in the total purchase price shall be made to

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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.

- The pipe culvert installation shall conform to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Grade culverts shall have a gradient of from 2 percent to 4 percent greater than the adjacent road grade. Grade culverts shall be skewed down grade 30 degrees as measured from the perpendicular to the centerline unless otherwise specified on the plans.
- Damage to the spelter, or burn back in excess of 3/8 inch, shall be wire brushed and painted with two coats of zinc-rich paint on zinc-coated, steel pipe and aluminum-rich paint on aluminum or aluminum-coated pipe.
- Corrugated steel riveted and helical pipe culverts and pipe-arch culverts and special sections shall conform to the requirements of AASHTO M 36 and AASHTO M 218 or AASHTO M 274 as specified on the plans.
- 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.
- "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.
- 406f Channel-type or flanged-end coupling bands may be used on helical pipe with reformed rolled ends and flanged specifically to receive these bands. Such coupling bands shall conform to the requirements shown on the plans.
- 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 included in the plans and the Culvert Installation Detail Sheet.
- 412 Where ledge rock, boulders, soft, or spongy soils are encountered, they shall be

excavated a minimum of 24 inches below the invert grade for a width of at least one pipe diameter or span on each side of the pipe and shall be backfilled with (crushed rock material in accordance with Section 1200 gradation (E-1).

- Pipe culverts and pipe-arch culverts shall be bedded on crushed rock material in accordance with Section 1200 gradation (E-1), or fine readily compactable soil 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.
- The invert grade of the bedding shall be cambered in accordance with the requirements and details shown on the plans and as directed by the Authorized Officer.
- 414a The invert grade of the bedding shall be cambered at the middle ordinate a minimum of 1 percent of the total length of the drainage structure. Camber shall be developed on a parabolic curve.
- 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. 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 until a uniform density of 85 percent of the maximum density, is attained as determined by AASHTO T 99, Method C.
- 418 Side fills beyond the compaction limits specified under Subsection 417 shall be compacted as specified under Section 300.
- Construction of catch basins and ditch dams conforming to lines, grades, dimensions and typical diagrams shown on the plans, shall be required for grade culverts.
- Construction of energy dissipaters conforming to lines, grades, dimensions and typical diagram shown on the plans, shall be required for grade culverts and culverts.
- Where pervious materials are used for backfill and bedding, collars consisting of selected impervious material shall be placed at the inlet and at various intervals along the pipe barrel as shown on the plans and as directed by the Authorized Officer.

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- 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 including the payment of any fees required. The Purchaser shall remove the old culverts from the work site prior to road acceptance.
- Keep the excavation site dewatered so that the installation of culverts is completed under dry conditions. Dispose of excess water by using pumping or natural drainage ways near the site in a manner that will avoid damage to adjacent property. Provide for downstream waterflow with no more that 10% increase in natural stream turbidity due to transport of excavated material or sediment during construction. Diversion streams shall not be returned to the natural channel until all in-stream work has been completed.

RENOVATION AND IMPROVEMENT OF EXISTING ROADS - 500

- This work shall consist of reconditioning and preparing the roadbed and shoulders, minor excavation and/or embankment, cleaning and shaping drainage ditches, trimming vegetation from cut and embankment slopes, and cleaning and repairing drainage structures of existing roads in accordance with these specifications and as shown on the plans.
- 501a This work shall include the removal and disposal of slides in accordance with these specifications.
- The existing road surface shall be scarified to its full width and to a depth of 6 inches to eliminate surface irregularities and bladed and shaped to the lines, grades, dimensions, and typical cross sections shown on the plans.
- Focks larger than 4 inches in maximum dimension shall be removed from the scarified layers of the roadbed. Material so removed will not be permitted to remain on road shoulders or in ditches.
- 502b Drainage ditches shall be bladed and shaped in accordance with the lines, grades, dimensions, and typical cross sections shown on the plans.
- Existing road surface shall be uniformly moistened or dried to the optimum moisture content suitable for maximum density and compacted to full width with equipment conforming to requirements of Subsections 103f.
- 504a Minimum compaction required shall be 1 hour of continuous rolling for each 4

stations of road, or fraction thereof, as measured along the centerline per layer of material.

- 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.
- 507 Existing and new drainage structures shall be replaced and placed with structures of the type, gauge, diameter, and length shown on the plans and in accordance with the placement requirements set forth under section 400 of these specifications.
- Vegetation encroaching on the roadbed and the drainage ditches of existing roads shall be removed by cutting and disposed of in accordance with Subsection 2100 of these specifications.
- The finished grading shall be approved in writing by the Authorized Officer. The Purchaser shall give the Authorized Officer 3 days notice prior to final inspection of the grading operations.

WATERING - 600

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

AGGREGATE BASE COURSE - 1000 CRUSHED ROCK MATERIAL

- This work shall consist of furnishing, hauling, and placing one or more lifts of crushed rock material on roadbeds and landings approved for placing crushed rock material, in accordance with these specifications and conforming to the dimensions and typical cross sections shown on the plans. Material not conforming to these specifications will be rejected and shall be removed from the road at the purchaser's expense.
- 1002a Crushed rock materials may be obtained from commercial sources selected by the Purchaser at his option and expense providing that the rock materials selected comply with the specifications in this section.
- Crushed rock material produced from gravel shall have (2) manufactured fractured faces on 65 percent, by weight, of the material retained on the No. 4 sieve. If necessary to meet the above requirement, or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1004 Crushed rock materials shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1004

AGGREGATE BASE COURSE CRUSHED ROCK MATERIAL

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

GRADATION

Sieve Designation	А	В	С	D	F	G	Н	I
(6) -inch	-	-	1	-	-	-	-	100
3-inch	100	-	100	-	100	1	•	45-65
2-inch	90-95	100	1	100	65-95	100	100	-
1 1/2-inch	-	90-95	1	ı	1	1	1	-
1-inch	45-75	50-90	-	•	ı	50-85	60-90	-
3/4-inch	-	-	-	•	28-70	1	-	-
1/2-inch	-	-	-	-	-	27-60	44-70	-

3/8-inch	-	-	-	-	-	-	-	-
No. 4	15-45	15-50	1	1	10-35	15-40	28-50	0-10
No. 8	-	1	1	1	1	1	20-41	-
No. 10	-	-	1	•	-	•	-	-
No. 30	-	-	•	•	5-22	8-26	9-26	ı
No. 40	5-25	5-25	•	•	•	•	-	1
No. 200	2-15	2-15	-	-	3-10	3-12	3-12	-

- 1005 Crushed rock material shall not exceed 35 percent loss 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.
- That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have liquid limits of not more than 35, and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- That portion of crushed rock material passing No. 4 sieve, including blending filler shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalent of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1007a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

1008 - If additional binder or filler is necessary in order to meet the grading or plasticity requirements, or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes

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shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.

- Each layer of crushed rock material shall be thoroughly mixed on the roadbed by alternately blading, to full depth, until a uniform mixture has been obtained. The mixture shall then be spread to full width. When completed, the spreading shall produce a surface which is smooth, presents uniform shoulder lines, and conforms to the specified cross section.
- The roadbed, as shaped and compacted under Sections 300 and 500 of these specifications, shall be approved by the Authorized Officer prior to placement of crushed rock materials. Notification for final inspection prior to rocking shall be 72 hours prior to that inspection and shall be 10 days prior to start of rocking operations.
- 1010 Crushed rock materials shall be placed and processed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans and compacted in layers not to exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, approved by the Authorized officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and adding or removing crushed rock material until the surface is smooth and uniform.
- 1010a Crushed rock material used to repair or reinforce a soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing under this specification unless approved as such by the Authorized Officer prior to placement.
- Each layer of crushed rock material shall be placed, processed, shaped, moistened or dried to a uniform moisture content suitable for maximum compaction, and compacted to full width by compaction equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards, or fraction thereof, of crushed rock material placed per layer.

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 approved for placing crushed rock material in accordance with these specifications and conforming to the dimensions and

typical cross sections shown on the plans. Material not conforming to these specifications will be rejected, and shall be removed from the road at the purchaser's expense.

- 1202a Crushed rock materials used in this work may be obtained from commercial sources selected by the Purchaser at his option and expense, providing the rock materials furnished comply with the specifications.
- 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. If necessary to meet the above requirements or to eliminate an excess of filler, the gravel shall be screened before crushing.
- 1204 Crushed rock material shall consist of hard durable rock fragments conforming to the following gradation requirements:

TABLE 1204

AGGREGATE SURFACE COURSE CRUSHED ROCK MATERIAL

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

GRADATION

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

- 1205 Crushed rock material shall not exceed 35 percent loss as determined by AASHTO T 96.
- 1206 Crushed rock material shall show a durability value of not less than 35 as determined by AASHTO T210.

- 1206a The crushed rock material shall show a loss of not more than 20 percent by weight, when submerged in DMSO, dimethyl sulfoxide, for five days, according to Federal Highway Administration Region 10 Accelerated Weathering Test Procedure.
- That portion of crushed rock material passing the No. 40 sieve, including blending filler, shall have a liquid limit of not more than 35 and a plasticity index of not less than 4 and not more than 12 as determined by AASHTO T 89 and AASHTO T 90.
- That portion of crushed rock material passing No. 4 sieve, including blending filler, shall have a sand equivalent of not less than 35, as determined by AASHTO T 176, except where that portion exhibits a sand equivalence of less than 35, the aggregate will be accepted if it complies with the additional requirement as follows:

TABLE 1207a

Sand Equivalent	Percent Passing #200 Sieve AASHTO T 27
34	9
33	8
32	7
31	6
30	5
29 or less	4

- 1208 If additional binder or filler material is necessary to meet the grading or plasticity requirements or for satisfactory bonding of the material, it shall be uniformly blended with the crushed rock material at the crushing and screening plant prior to placing on the road, unless otherwise agreed. The material for such purposes shall be obtained from sources approved by the Authorized Officer and shall be free from stones, vegetative matter, and other deleterious materials.
- 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 shall be completed and approved prior to placing crushed rock material, in accordance to the requirements of Subsection

500.

- Crushed rock material conforming to the requirements of these specifications shall be placed on the approved roadbed in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the plans. Compacted layers shall not exceed 4 inches in depth. When more than one layer is required, each shall be shaped, processed, compacted, and approved by the Authorized Officer before the succeeding layer is placed. Irregularities or depressions that develop during compaction of the top layer shall be corrected by loosening the material at these places and then adding or removing crushed rock material until the surface is smooth and uniform.
- 1210a Crushed rock material used to repair or reinforce soft, muddy, frozen, yielding, or rutted roadbed shall not be construed as surfacing required by this specification unless approved by the Authorized Officer.
- 1212 Each layer of crushed rock material placed, processed, and shaped as specified shall be moistened or dried to a uniform moisture content suitable for maximum compaction and compacted to full width by compacting equipment conforming to the requirements of Subsection 103f. Minimum compaction shall be 1 hour of continuous compacting for each 150 cubic yards of crushed rock material placed per layer, or fraction thereof.

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 mulches, grasses, and other erosion control devices or methods in accordance with these specifications and conforming to the lines, grades, dimensions and typical cross sections shown on the plans.
- 1704 The erosion control provisions specified under this Subsection shall be coordinated with the Soil Stabilization requirements of Section 1800.
- 1705 The surface area of erodible earth material exposed at any one time by clearing and grubbing shall not exceed 25,000 square feet without prior approval by the Authorized Officer.
- The surface area of erodible earth material exposed at one time by excavation, borrow, or fill within the right-of-way shall not exceed 25,000 square feet without prior approval by the Authorized Officer.

- 1706a The Purchaser shall perform, during the same construction season, erosion control measures specified in the plans on all exposed excavation, borrow, and embankment areas.
- 1707 Completed and partially completed segments of roads carried over the winter and early spring periods shall be stabilized by seeding, fertilizing, and mulching in accordance with 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.
- 1711 The Purchaser shall construct energy dissipaters for pipe culverts conforming to the requirements and details shown on the respective exhibits and on the plans.

SOIL STABILIZATION – 1800

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

From: March 15 To: April 30 From: September 1 To: October 15

If soil stabilization of disturbed areas is not completed by the specified fall date, the Purchaser shall treat disturbed areas in accordance with Subsection 1707 and then complete the requirements of Section 1800 the next construction season. The Authorized Officer may modify the above seasonal dates to conform to existing weather conditions and changes in the construction schedule.

- 1803a The Purchaser shall begin soil stabilization work within 10 days of the starting work date when notified by the Authorized Officer.
- 1804 The BLM shall provide native grass seed for this project.
- 1806 The Purchaser shall apply the seed mixtures specified under Subsection 1805 to the corresponding seeding projects as shown on the plans.
- Additional soil stabilization work consisting of seeding, fertilizing, 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.
- 1807 Fertilizer shall be a standard commercial grade of fertilizer conforming to all State and Federal regulations and to the standards of the Association of Official Agricultural Chemists. Fertilizer furnished shall provide the minimum percentage of available nutrients as specified below:

Available nitrogen	(16) %
Available phosphoric acid	(20) %
Potassium	(16) %

The Authorized Officer will take what samples he deems necessary for determining compliance with the above requirements.

Fertilizer shall be furnished in new sealed and properly labeled containers with name, weight, and guaranteed analysis of contents clearly marked. Material failing to meet these requirements, or that which has become wet or otherwise damaged in transit or storage, will be subject to rejection by the Authorized Officer.

- 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.

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- Mulch material shall be delivered to the work area in a dry state. Material found to be wet will not be accepted. Material to be used in the mulching operation may be stockpiled along the road designated for treatment provided that it is maintained in a dry state and has the approval of the Authorized Officer.
- 1810 Bulk mulching material required under these specifications shall be delivered to the work area bound either by twine, string or hemp rope. Wire binding will not be permitted.
- 1811 The Purchaser shall furnish and apply to approximately 3.6 acres designated for treatment as shown on the plans and as specified under Subsections 1802 and 1806, a mixture of grass seed, fertilizer, and mulch material at the following rate of application:

Grass Seed (60) lbs./acre Fertilizer (200) lbs./acre Mulch (3,000) lbs./acre

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

1812 - The Purchaser shall furnish and apply to the area designated for treatment as shown on the plans

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, fertilizer, and mulch materials shall be placed by the dry method in accordance with the requirements set forth in Subsection 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. Fertilizer in dry form shall be spread separately at the rates set forth Subsection 1811.
- 1819 The Purchaser shall notify the Authorized Officer at least 3 days in advance of

date he intends to commence the specified soil stabilization work.

- 1821 Mulch that collects at the end of culverts or accumulates to excessive depths on the slopes shall be evenly spread by hand methods, as directed by the Authorized Officer.
- Twine, rope, sacks, and other debris resulting from the soil-stabilization operation shall be picked up and disposed of to the satisfaction of the Authorized Officer.

ROADSIDE BRUSHING - 2100

- 2101 This work shall consist of the removal of vegetation from the road prism variable distance, and inside curves in accordance with these specifications and conforming to the lines, grades, dimensions, and typical cross sections shown on the Roadside Brushing Detail Sheet of this exhibit, at designated locations as shown in the plans.
- 2102 Roadside brushing may be performed mechanically with self-powered, self-propelled equipment or manually with hand tools, including chain saws.
- 2103 Vegetation cut manually or mechanically less than 6 inches in diameter at D.B.H.O.B. 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 1 inch above the ground and running surface. Limbs below the 1 inch area will be severed from the trunk. Sharp pointed ends will not be permitted. Cuts shall be parallel to the ground line or running surface.
- Trees in excess of 6 inches in diameter at D.B.H.O.B shall be limbed, so that no limbs extend into the treated area or over the roadbed to a height of 12 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 12 feet in elevation above the running surface shall be cut, to within 1 inch of the trunk to produce a smooth vertical face.

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- 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.
- 2108 Self propelled equipment shall not be permitted on cut and fill slopes or in ditches.
- 2109 Debris resulting from this operation shall be scattered downslope from the roadway. Debris shall not be allowed to accumulate in concentrations. Debris in excess of 1 foot in length and 2 inches in diameter shall not be allowed to remain on cut slopes, ditches, roadways or water courses, or as directed by the Authorized Officer.
- 2115 Mechanical brush cutters shall not be operated when there are people and occupied vehicles within 400 feet of the immediate operating area.
- 2116 Traffic warning signs shall be required at each end of the work area. Signs shall meet the requirements of the Manual on Uniform Traffic Devices.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Version: 5.2.0.117

Summary of All Roads and Projects

Updated: 6/14/2017

T.S. Contract Name: Chetco Salvage Tract No: 2018.0036 Sale Date: 05/23 Prepared by: M. Bailey Ph: 5417514234 Print Date: 4/13/2018 9:37:03 AM	3/2018
Construction: 29.11 sta Improve: 0.00 sta Renov: 118.62 sta Decom: 0.00 sta Temp: 0.00 sta	
200 Clearing and Grubbing: 2.8 acres	\$9,179.14
300 Excavation: 2,342 cy	\$14,802.05
400 Drainage:	\$6,815.05
500 Renovation: Blading 0.65 mi	\$5,093.42
700-1200 Surfacing:	\$613.30
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 3.6 acres	\$3,113.46
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing:	\$232.18
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$5,052.00 Surf. \$1,504.00	\$6,556.00
Quarry Development:	\$0.00
Total: 2,001 mbf @ \$23.191/mbf =	\$46,404.59

Notes

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

Road Renovation: 0.07 mi 14 ft Subgrade 0 ft ditch \$652.57 200 Clearing and Grubbing: 0.2 acres \$0.00 400 Drainage: \$0.00 Culvert: 0 1f \$0.00 DownSpout: 0 1f \$903.40 Blading 0.07 mi \$0.00 1300 Genovation: \$0.00 1300 Ferotection: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.2 acres \$208.72 Includes Small Quantity Factor of 1.39 \$0.00 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00 Total: \$1,988.43	T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-13.4 Road Name:	
### 400 Drainage: \$0.00 Culvert: 0 If DownSpout: 0 If PolyPipe: 0 If ### 500 Renovation: \$903.40 Blading 0.07 mi ### 700-1200 Surfacing: \$0.00	Road Renovation: 0.07 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.2 acres	\$652.57
Culvert: 0 1f DownSpout: 0 1f PolyPipe: 0 1f \$903.40 500 Renovation: \$903.40 Blading 0.07 mi \$0.00 700-1200 Surfacing: \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.2 acres \$208.72 Includes Small Quantity Factor of 1.39 \$0.00 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	300 Excavation:	\$0.00
Blading 0.07 mi \$0.00 700-1200 Surfacing: \$0.00 1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.2 acres \$208.72 Includes Small Quantity Factor of 1.39 \$0.00 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	Culvert: 0 lf DownSpout: 0 lf	\$0.00
1300 Geotextiles: \$0.00 1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.2 acres \$208.72 Includes Small Quantity Factor of 1.39 \$0.00 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00		\$903.40
1400 Slope Protection: \$0.00 1800 Soil Stabilization: 0.2 acres Includes Small Quantity Factor of 1.39 \$208.72 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	700-1200 Surfacing:	\$0.00
1800 Soil Stabilization: 0.2 acres Includes Small Quantity Factor of 1.39 \$208.72 1900 Cattleguards: \$0.00 \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 \$0.00 2300 Engineering: 0.00 sta \$0.00 \$0.00 2400 Minor Concrete: \$0.00 \$0.00 2500 Gabions: \$0.00 \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 \$223.73 Quarry Development: \$0.00 \$0.00	1300 Geotextiles:	\$0.00
Includes Small Quantity Factor of 1.39 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	1400 Slope Protection:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00		\$208.72
2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	1900 Cattleguards:	\$0.00
2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	2300 Engineering: 0.00 sta	\$0.00
8000 Miscellaneous: \$0.00 Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	2400 Minor Concrete:	\$0.00
Mobilization: Const. \$223.73 Surf. \$0.00 \$223.73 Quarry Development: \$0.00	2500 Gabions:	\$0.00
Quarry Development: \$0.00	8000 Miscellaneous:	\$0.00
	Mobilization: Const. \$223.73 Surf. \$0.00	\$223.73
Total: \$1,988.43	Quarry Development:	\$0.00
Not og:		\$1,988.43

Notes:

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

Section 2500 Gabions:

Road Number: 39-13-13.4 Road Name: Section 200 Clearing and Grubbing: Clearing - Medium (Clearing): Adjustment Factor (1.67) 1-15% (Avg Side Slopes): Adjustment Factor (0) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 1.67 + 0 + 1.28 + 0.1 = 3.05Base Cost/Acre: \$891.49 x Adjustment Factor: 3.05 x Total Acres: .24 = \$652.57 Subtotal: \$652.57 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Scarification: $$857.82/mi \times 0.07 mi = 60.05 Blading w/o Ditches: \$428.91/mi x 0.07 mi = \$30.02 Compaction: $$325.47/mi \times 0.07 mi = 22.78 Approach Re-construciton Tractor: D7 with rippers 2 hr x \$158.11/hr = \$316.22Roadside Landing Construction Tractor: D7 with rippers 3 hr x \$158.11/hr = \$474.33Subtotal: \$903.40 Section 700-1200 Surfacing: Surfacing: \$0.00 Subtotal: Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$515.68/acre \times 0.24 acres = 123.76 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.24 acres = \$8.16 + Mulch Cost: \$320.00/acre x 0.24 acres = \$76.80 Subtotal: \$208.72 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00

Subtotal:

\$0.00

Road Number: 39-13-13.4 Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 4.43% of total Costs = \$223.73

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$223.73

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,988.43

Road Number: 39-13-2.5 Road Name:	
Road Construction: 0.27 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.8 acres	\$2.831.19
300 Excavation: 1,202 cy	
400 Drainage:	\$1,795.20
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.8 acres	\$687.05
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$1,397.98 Surf. \$0.00	\$1,397.98
Quarry Development:	\$0.00
Total Notes:	1: \$12,424.85

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

Section 2500 Gabions:

Road Number: 39-13-2.5 Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1.28 + 0.1 = 4.02Base Cost/Acre: \$891.49 x Adjustment Factor: 4.02 x Total Acres: 0.79 = \$2,831.19 Subtotal: \$2,831.19 Section 300 Excavation: Excavation - Common: $$2.01/cy \times 901 cy = $1,811.01$ Excavation - Rippable: $$4.05/cy \times 301 cy = $1,219.05$ Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 14.3 sta = \$386.46 Embankment Placement & Compaction 306.a - Common: \$0.80/cy x 1,115 cy = \$892.00 End Hauling - 100 to 500 ft: $$0.16/sta-yd \times 431 sta-yd = 68.96 End Hauling > 500 ft and 10 mph: \$2.10/yd-mi x 56 yd-mi = \$117.60 End Hauling > 500 ft - Fixed Cost (CY): $$2.86/\text{cy} \times 367 \text{ cy} = $1,049.62$ Blading without ditch: \$11.84/station x 14.25 stations = \$168.72 Subtotal: \$5,713.42 Section 400 Drainage: Aluminized Temp Ditchline Pipe 12 inch 14 ga 40 lf x \$44.88/lf = \$1,795.20Subtotal: \$1,795.20 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$515.68/acre \times 0.79 acres = 407.39 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.79 acres = \$26.86 + Mulch Cost: \$320.00/acre x 0.79 acres = \$252.80 Subtotal: \$687.05 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00

Road Number: 39-13-2.5 Continued

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 27.67% of total Costs = \$1,397.98

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$1,397.98

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$12,424.85

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-24.0 Road Name: Casner Butte Road Renovation: 1.10 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: 0.1 acres	\$280.82
300 Excavation:	\$401.82
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.2 acres	\$173.94
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$108.60 Surf. \$0.00	\$108.60
Quarry Development:	\$0.00
Total: Notes:	\$965.17

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

Road Number: 39-13-24.0 Road Name: Casner Butte Section 200 Clearing and Grubbing: Clearing - Medium (Clearing): Adjustment Factor (1.67) 16-30% (Avg Side Slopes): Adjustment Factor (0.1) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 1.67 + 0.1 + 1.28 + 0.1 = 3.15Base Cost/Acre: \$891.49 x Adjustment Factor: 3.15 x Total Acres: .1 = \$280.82 Subtotal: \$280.82 Section 300 Excavation: Construct Roadside Landing Excavator - Large (3 CY) 3 hr x \$133.94/hr = \$401.82Subtotal: \$401.82 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$515.68/acre \times 0.20 acres = 103.14 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.20 acres = \$6.80 + Mulch Cost: \$320.00/acre x 0.20 acres = \$64.00 Subtotal: \$173.94 Section 1900 Cattleguards: \$0.00 Subtotal: Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00

Subtotal:

\$0.00

Mobilization:

Section 8000 Miscellaneous:

Construction - 2.15% of total Costs = \$108.60

Road Number: 39-13-24.0 Casner Butte Continued

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$108.60

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$965.17

300 Excavation: \$0. 400 Drainage: \$0. Culvert: 0 1f DownSpout: 0 1f PolyPipe: 0 1f 500 Renovation: \$571. Blading 0.06 mi 700-1200 Surfacing: \$0. 1300 Geotextiles: \$0. 1400 Slope Protection: \$0. 1800 Soil Stabilization: 0.2 acres \$191. Includes Small Quantity Factor of 1.39 1900 Cattleguards: \$0. 2100 RoadSide Brushing (NONE):0.0 acres \$0. 2300 Engineering: 0.00 sta \$0. 2400 Minor Concrete: \$0. 2500 Gabions: \$0. 8000 Miscellaneous: \$0. 8000 Miscellaneous: \$0. 8000 Miscellaneous: \$0. 8000 Mobilization: Const. \$172.49 Surf. \$0.000. \$172.	18
### 400 Drainage: Culvert: 0 1f	\$598.19
Culvert: 0 lf	\$0.00
Blading 0.06 mi \$0 700-1200 Surfacing: \$0 1300 Geotextiles: \$0 1400 Slope Protection: \$0 1800 Soil Stabilization: 0.2 acres \$191 Includes Small Quantity Factor of 1.39 \$0 1900 Cattleguards: \$0 2100 RoadSide Brushing (NONE):0.0 acres \$0 2300 Engineering: 0.00 sta \$0 2400 Minor Concrete: \$0 2500 Gabions: \$0 8000 Miscellaneous: \$0 Mobilization: \$172.49 Surf. \$0.00	\$0.00
1300 Geotextiles: \$0. 1400 Slope Protection: \$0. 1800 Soil Stabilization: 0.2 acres \$191. Includes Small Quantity Factor of 1.39 \$0. 1900 Cattleguards: \$0. 2100 RoadSide Brushing (NONE):0.0 acres \$0. 2300 Engineering: 0.00 sta. \$0. 2400 Minor Concrete: \$0. 2500 Gabions: \$0. 8000 Miscellaneous: \$0. Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$571.06
1400 Slope Protection: \$0. 1800 Soil Stabilization: 0.2 acres \$191. Includes Small Quantity Factor of 1.39 \$0. 1900 Cattleguards: \$0. 2100 RoadSide Brushing (NONE):0.0 acres \$0. 2300 Engineering: 0.00 sta \$0. 2400 Minor Concrete: \$0. 2500 Gabions: \$0. 8000 Miscellaneous: \$0. Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$0.00
1800 Soil Stabilization: 0.2 acres \$191 Includes Small Quantity Factor of 1.39 \$0 1900 Cattleguards: \$0 2100 RoadSide Brushing (NONE):0.0 acres \$0 2300 Engineering: 0.00 sta \$0 2400 Minor Concrete: \$0 2500 Gabions: \$0 8000 Miscellaneous: \$0 Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$0.00
Includes Small Quantity Factor of 1.39 1900 Cattleguards: \$0.00 2100 RoadSide Brushing (NONE):0.0 acres \$0.00 2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$172.49 Surf. \$0.00 \$172.00	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres \$0.0 2300 Engineering: 0.00 sta. \$0.0 2400 Minor Concrete: \$0.0 2500 Gabions: \$0.0 8000 Miscellaneous: \$0.0 Mobilization: Const. \$172.49 Surf. \$0.00 \$172.0	\$191.33
2300 Engineering: 0.00 sta. \$0.00 2400 Minor Concrete: \$0.00 2500 Gabions: \$0.00 8000 Miscellaneous: \$0.00 Mobilization: Const. \$172.49 Surf. \$0.00 \$172.00	\$0.00
2400 Minor Concrete: \$0. 2500 Gabions: \$0. 8000 Miscellaneous: \$0. Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$0.00
2500 Gabions: \$0. 8000 Miscellaneous: \$0. Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$0.00
8000 Miscellaneous: \$0.00 Mobilization: Const. \$172.49 Surf. \$0.00 \$172.	\$0.00
Mobilization: Const. \$172.49 Surf. \$0.00	\$0.00
	\$0.00
Ouarry Development: \$0.	\$172.49
	\$0.00
Total: \$1,533.	Total: \$1,533.08

Notes:

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

Road Number: 39-13-25.6 Road Name: Section 200 Clearing and Grubbing: Clearing - Medium (Clearing): Adjustment Factor (1.67) 1-15% (Avg Side Slopes): Adjustment Factor (0) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 1.67 + 0 + 1.28 + 0.1 = 3.05Base Cost/Acre: \$891.49 x Adjustment Factor: 3.05 x Total Acres: .22 = \$598.19 Subtotal: \$598.19 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Scarification: $$857.82/mi \times 0.06 mi = 51.47 Blading w/o Ditches: \$428.91/mi x 0.06 mi = \$25.73 Compaction: $$325.47/mi \times 0.06 mi = 19.53 Renovate Roadway & Landing Tractor: D7 with rippers 3 hr x \$158.11/hr = \$474.33Subtotal: \$571.06 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$515.68/acre \times 0.22 acres = 113.45 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.22 acres = \$7.48 + Mulch Cost: \$320.00/acre x 0.22 acres = \$70.40 Subtotal: \$191.33 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Section 8000 Miscellaneous:

Subtotal:

\$0.00

Road Number: 39-13-25.6 Continued

Mobilization:

Construction - 3.41% of total Costs = \$172.49

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$172.49

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$1,533.08

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-25.7 Road Name:	
Road Construction: 0.10 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.3 acres	\$991.69
300 Excavation: 410 cy	\$3,184.03
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.3 acres	\$234.81
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$559.17 Surf. \$0.00	\$559.17
Quarry Development:	\$0.00
Total:	\$4,969.70

Notes:

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

Road Number: 39-13-25.7 Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 31-45% (Avg Side Slopes): Adjustment Factor (0.2) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.2 + 1.28 + 0.1 = 4.12Base Cost/Acre: \$891.49 x Adjustment Factor: 4.12 x Total Acres: .27 = \$991.69 Subtotal: \$991.69 Section 300 Excavation: Comment: Calculated all overhaul as endhaul due to adverse grade Excavation - Common: $$2.01/cy \times 308 cy = 619.08 Excavation - Rippable: $$4.05/\text{cy} \times 102 \text{ cy} = 413.10 Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 5.1 sta = \$138.58 Embankment Placement & Compaction 306.a - Common: \$0.80/cy x 410 cy = \$328.00 End Hauling - 100 to 500 ft: \$0.16/sta-yd x 538 sta-yd = \$86.08 End Hauling > 500 ft - Fixed Cost (CY): $$2.86/\text{cy} \times 538 \text{ cy} = $1,538.68$ Blading without ditch: \$11.84/station x 5.11 stations = \$60.50 Subtotal: \$3,184.03 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: \$0.00 Subtotal: Section 1800 Soil Stabilization: Dry Method with Mulch: \$515.68/acre x 0.27 acres = \$139.23 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.27 acres = \$9.18 + Mulch Cost: \$320.00/acre x 0.27 acres = \$86.40 Subtotal: \$234.81 Section 1900 Cattlequards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions: Subtotal: \$0.00 Road Number: 39-13-25.7 Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 11.07% of total Costs = \$559.17

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$559.17

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,969.70

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-26.1 Road Name: Road Renovation: 0.30 mi 16 ft Subgrade 2 ft ditch	
200 Clearing and Grubbing: acres	\$0.00
300 Excavation:	\$0.00
400 Drainage: Culvert: 55 lf DownSpout: 0 lf PolyPipe: 0 lf	\$2,904.65
500 Renovation:	\$673.08
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.7 acres	\$608.78
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (Manual):0.7 acres	\$232.18
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$560.20 Surf. \$0.00	\$560.20
Quarry Development:	\$0.00
Total:	\$4,978.89

Notes:

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

Road Number: 39-13-26.1 Road Name:

Section 200 Clearing and Grubbing:

Subtotal: \$0.00

Section 300 Excavation:

Subtotal: \$0.00

Section 400 Drainage:

Aluminized Jct w/39-13-26.2 18 inch 14 ga 55 lf x \$52.63/lf = \$2,894.65

Culvert Inlet Marker

6' Steel "T-Post" 1 ea x \$10.00/ea = \$10.00

Subtotal: \$2,904.65

Section 500 Renovation:

Blading: $$694.50/mi \times 0.30 mi = 208.35

Scarification: $$857.82/mi \times 0.30 mi = 257.35 Compaction: $$325.47/mi \times 0.30 mi = 97.64

Clean Culverts: \$365.82/mi x 0.30 mi = \$109.75

Subtotal: \$673.08

Section 700-1200 Surfacing:

Surfacing:

Subtotal: \$0.00

Section 1300 Geotextiles:

Subtotal: \$0.00

Section 1400 Slope Protection:

Subtotal: \$0.00

Section 1800 Soil Stabilization:

Dry Method with Mulch: \$515.68/acre x 0.70 acres = \$360.98

Includes Small Quantity Factor of 1.39

+ Fertilizer Cost: \$34.00/acre x 0.70 acres = \$23.80

+ Mulch Cost: \$320.00/acre x 0.70 acres = \$224.00

Subtotal: \$608.78

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Manual Brushing

Brushing width Left: 10ft. Right: 10ft.

RoadSide Brushing Light: \$331.68/acre x 0.70 acres = \$232.18

Subtotal: \$232.18

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Subtotal: \$0.00

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Road Number: 39-13-26.1 Continued

Mobilization:

Construction - 11.09% of total Costs = \$560.20

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$560.20

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$4,978.89

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-26.2 Road Name:	
Road Construction: 0.18 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.6 acres	\$2,006.92
300 Excavation: 730 cy	\$5,186.56
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$0.00
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.6 acres	\$487.02
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$973.73 Surf. \$0.00	\$973.73
Quarry Development:	\$0.00
Total:	\$8,654.24

Notes:

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

Road Number: 39-13-26.2 Road Name: Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 16-30% (Avg Side Slopes): Adjustment Factor (0.1) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0.1 + 1.28 + 0.1 = 4.02Base Cost/Acre: \$891.49 x Adjustment Factor: 4.02 x Total Acres: 0.56 = \$2,006.92 Subtotal: \$2,006.92 Section 300 Excavation: Excavation - Common: $$2.01/\text{cy} \times 0 \text{ cy} = 0.00 Excavation - Rippable: $$4.05/cy \times 730 cy = $2,956.50$ Subgrade Compaction: 4 Sta/hr \$27.12/sta. x 9.8 sta = \$264.42 Embankment Placement & Compaction 306.a - Common: \$0.80/cy x 730 cy = \$584.00 End Hauling > 500 ft and 10 mph: $$2.10/yd-mi \times 65 yd-mi = 136.50 End Hauling > 500 ft - Fixed Cost (CY): $$2.86/\text{cy} \times 395 \text{ cy} = $1,129.70$ Blading without ditch: \$11.84/station x 9.75 stations = \$115.44 Subtotal: \$5,186.56 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Surfacing: \$0.00 Subtotal: Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: \$515.68/acre x 0.56 acres = \$288.78 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.56 acres = \$19.04 + Mulch Cost: \$320.00/acre x 0.56 acres = \$179.20 Subtotal: \$487.02 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Section 2500 Gabions:

Subtotal:

\$0.00

Road Number: 39-13-26.2 Continued

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 19.27% of total Costs = \$973.73

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$973.73

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$8,654.24

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 39-13-27.9 Road Name: Road Renovation: 0.22 mi 14 ft Subgrade 0 ft ditch 200 Clearing and Grubbing: 0.5 acres	. \$1,468.28
300 Excavation:	
400 Drainage: Culvert: 0 lf DownSpout: 0 lf PolyPipe: 0 lf	\$0.00
500 Renovation:	\$2,945.87
700-1200 Surfacing:	\$0.00
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.5 acres	\$434.84
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$614.76 Surf. \$0.00	\$614.76
Quarry Development:	\$0.00
Total:	\$5,463.75

Notes:

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

Section 2500 Gabions:

Road Number: 39-13-27.9 Road Name: Section 200 Clearing and Grubbing: Clearing - Medium (Clearing): Adjustment Factor (1.67) 1-15% (Avg Side Slopes): Adjustment Factor (0) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 1.67 + 0 + 1.28 + 0.1 = 3.05Base Cost/Acre: \$891.49 x Adjustment Factor: 3.05 x Total Acres: .54 = \$1,468.28 Subtotal: \$1,468.28 Section 300 Excavation: Subtotal: \$0.00 Section 400 Drainage: Subtotal: \$0.00 Section 500 Renovation: Scarification: $$857.82/mi \times 0.22 mi = 188.72 Blading w/o Ditches: \$428.91/mi x 0.22 mi = \$94.36 Compaction: $$325.47/mi \times 0.22 mi = 71.60 Approach Re-construction Tractor: D7 with rippers 3 hr x \$158.11/hr = \$474.33Subgrade widening Tractor: D7 with rippers 10 hr x \$158.11/hr = \$1,581.10Stream crossing renovation Excavator - Large (3 CY) 4 hr x \$133.94/hr = \$535.76Subtotal: \$2,945.87 Section 700-1200 Surfacing: Surfacing: Subtotal: \$0.00 Section 1300 Geotextiles: Subtotal: \$0.00 Section 1400 Slope Protection: Subtotal: \$0.00 Section 1800 Soil Stabilization: Dry Method with Mulch: $$515.68/acre \times 0.50 acres = 257.84 Includes Small Quantity Factor of 1.39 + Fertilizer Cost: \$34.00/acre x 0.50 acres = \$17.00 + Mulch Cost: \$320.00/acre x 0.50 acres = \$160.00 Subtotal: \$434.84 Section 1900 Cattleguards: Subtotal: \$0.00 Section 2100 Roadside Brushing: Subtotal: \$0.00 Section 2300 Engineering: Subtotal: \$0.00 Section 2400 Minor Concrete: Subtotal: \$0.00 Road Number: 39-13-27.9 Continued

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 12.17% of total Costs = \$614.76

Surfacing - 0.00% by rock volume = \$0.00

Subtotal: \$614.76

Quarry Development:

Based on 0.00% of total rock volume

Subtotal: \$0.00

Total: \$5,463.75

ROAD CONSTRUCTION SUMMARY

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018 Road Number: 40-13-2.0 Road Name: Ransom Ridge Road Renovation: 0.50 mi 16 ft Subgrade 2 ft ditch 200 Clearing and Grubbing: 0.1 acres	\$349.46
300 Excavation:	\$316.22
400 Drainage: Culvert: 40 lf DownSpout: 0 lf PolyPipe: 0 lf	\$2,115.20
500 Renovation:	\$0.00
700-1200 Surfacing:	\$613.30
1300 Geotextiles:	\$0.00
1400 Slope Protection:	\$0.00
1800 Soil Stabilization: 0.1 acres	\$86.97
1900 Cattleguards:	\$0.00
2100 RoadSide Brushing (NONE):0.0 acres	\$0.00
2300 Engineering: 0.00 sta	\$0.00
2400 Minor Concrete:	\$0.00
2500 Gabions:	\$0.00
8000 Miscellaneous:	\$0.00
Mobilization: Const. \$441.34 Surf. \$1,504.00	\$1,945.34
Quarry Development:	\$0.00
Total: Notes:	\$5,426.49

Notes:

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

Road Construction Worksheet Road Number: 40-13-2.0 Road Name: Ransom Ridge Section 200 Clearing and Grubbing: Clearing - Heavy (Clearing): Adjustment Factor (2.54) 1-15% (Avg Side Slopes): Adjustment Factor (0) Pile and Burn (Slash): Adjustment Factor (1.28) 20-40' (Avg Clearing Widths): Adjustment Factor (0.1) Total Adjustment Factor: 2.54 + 0 + 1.28 + 0.1 = 3.92Base Cost/Acre: \$891.49 x Adjustment Factor: 3.92 x Total Acres: .1 = \$349.46 Subtotal: \$349.46 Section 300 Excavation: Construct Landing Area Unit 5 Tractor: D7 with rippers 2 hr x \$158.11/hr = \$316.22Subtotal: \$316.22 Section 400 Drainage: Aluminized MP 2.7 18 inch 14 ga 40 lf x \$52.63/1f = \$2,105.20Culvert Inlet Marker 6' Steel "T-Post" 1 ea x \$10.00/ea = \$10.00 Subtotal: \$2,115.20 Section 500 Renovation: Subtotal: \$0.00 Section 700-1200 Surfacing: Commercial Quarry Name: Da-Tone 1.5-0" Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 10 LCY Rock Volume = 10 LCY Purchase Price / Royalty: \$15.00/LCY x 10 LCY = \$150.00 Basic Rock Haul cost: \$0.58/LCY x 10 LCY = \$5.80 Rock Haul +15% grades: \$1.75/LCY-mi x 10 LCY x 4.00 mi= \$70.00 Rock Haul -15% grades: \$0.88/LCY-mi x 10 LCY x 4.50 mi= \$39.60 Rock Haul St& Co Roads: \$0.39/LCY-mi x 10 LCY x 3.50 mi= \$13.65 Basic Water Haul cost: \$0.53/LCY x 10 LCY = \$5.30 Water Haul +15% grades: \$0.25/LCY-mi x 10 LCY x 5.00 mi= \$12.50 Commercial Quarry Name: Da-Tone 3" Length TopW BotW Depth CWid #TOs Width F.W.L Taper Other 10 LCY Rock Volume = 10 LCY Purchase Price / Royalty: \$15.00/LCY x 10 LCY = \$150.00 Processing: $$0.88/LCY \times 10 LCY = 8.80 Compaction: $$1.08/LCY \times 10 LCY = 10.80 Basic Rock Haul cost: \$0.58/LCY x 10 LCY = \$5.80 Rock Haul +15% grades: \$1.75/LCY-mi x 10 LCY x 4.00 mi= \$70.00 Rock Haul -15% grades: \$0.88/LCY-mi x 10 LCY x 4.50 mi= \$39.60 Rock Haul St& Co Roads: \$0.39/LCY-mi x 10 LCY x 3.50 mi= \$13.65 Basic Water Haul cost: \$0.53/LCY x 10 LCY = \$5.30 Water Haul +15% grades: \$0.25/LCY-mi x 10 LCY x 5.00 mi= \$12.50 Subtotal: \$613.30 Section 1300 Geotextiles:

Section 1400 Slope Protection:

Subtotal: \$0.00

\$0.00

Subtotal:

Section 1800 Soil Stabilization:

Road Number: 40-13-2.0 Ransom Ridge Continued

Dry Method with Mulch: $$515.68/acre \times 0.10 acres = 51.57

Includes Small Quantity Factor of 1.39

+ Fertilizer Cost: \$34.00/acre x 0.10 acres = \$3.40

+ Mulch Cost: \$320.00/acre x 0.10 acres = \$32.00

Subtotal: \$86.97

Section 1900 Cattleguards:

Subtotal: \$0.00

Section 2100 Roadside Brushing:

Subtotal: \$0.00

Section 2300 Engineering:

Subtotal: \$0.00

Section 2400 Minor Concrete:

Section 2500 Gabions:

Subtotal: \$0.00

Section 8000 Miscellaneous:

Subtotal: \$0.00

Mobilization:

Construction - 8.74% of total Costs = \$441.34

Surfacing - 100.00% by rock volume = \$1,504.00

Subtotal: \$1,945.34

Quarry Development:

Based on 100.00% of total rock volume

Subtotal: \$0.00

Subtotal:

\$0.00

Total: \$5,426.49

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Mobilization Costs - Construction and Surfacing

T.S. Contract Name: Chetco Salvage Sale Date: 05/23/2018

Average Mobilization distance = 50 miles Factor = 1.00

Mobilization: Construction

Hydro-Mulcher: 1 ea x (1.00 x \$74.00/ea + 0 mi x \$4.09/mi) = \$74.00Fire Equipment: 1 ea x (1.00 x \$74.00/ea + 0 mi x \$4.09/mi) = \$74.00Graders-all: 1 ea x $(1.00 \times $410.00/ea + 0 \text{ mi } \times $14.10/mi) = 410.00 Rollers & Comp: 1 ea x $(1.00 \times $410.00/ea + 0 \text{ mi } \times $21.70/mi) = 410.00 Excavators: 1 ea x $(1.00 \times \$861.00/ea = \$861.00)$

Tractors >= D8: 1 ea x (1.00 x \$861.00/ea + 0 mi x \$47.50/mi) = \$861.00Dump Truck<=15cy: 3 ea x $(1.00 \times \$89.00/ea + 0 \text{ mi x } \$3.72/\text{mi}) = \$267.00$ Water Truck: 1 ea x $(1.00 \times \$95.00/ea + 0 \text{ mi x } \$3.94/\text{mi}) = \$95.00$

Equipment Washing: 8 ea x (\$250.00) /ea = \$2,000.00

Subtotal: \$5,052.00

Mobilization: Surfacing

Graders-all: lea x $(1.00 \times $410.00/ea + 0 \text{ mi } \times $14.10/mi) = 410.00 Rollers & Comp: lea x $(1.00 \times $410.00/ea + 0 \text{ mi x } $21.70/mi) = 410.00 Dump Truck<=15cy: lea x $(1.00 \times \$89.00/ea + 0 \text{ mi x } \$3.72/mi) = \$89.00$ Water Truck: lea x $(1.00 \times \$95.00/ea + 0 \text{ mi x } \$3.94/mi) = \$95.00$

Equipment Washing: 2 ea x (\$250.00) /ea = \$500.00

Subtotal: \$1,504.00

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

Summary of Construction Quantities

-	~					
T.S. Contract Name:	Chetco	Salvage	Sale Date:	05/23/2018		
Road Number 39-13-13.4	Const	Improv	Renov 3.50	Decomm	Temp	
39-13-2.5	14.25					
39-13-24.0			58.08			
39-13-25.6			3.00			
39-13-25.7	5.11		3.00			
39-13-26.1	3.11		15.84			
39-13-26.2	0.75		13.04			
	9.75		11 00			
39-13-27.9			11.80			
40-13-2.0			26.40			
Total Sta:	29.11		118.62			
200 Clearing and Gr	ubbing		Clearing acres			
39-13-13.4			0.2			
39-13-2.5			0.8			
39-13-24.0			0.1			
39-13-24.0			0.2			
			0.3			
39-13-25.7						
39-13-26.1			0.0			
39-13-26.2			0.6			
39-13-27.9			0.5			
40-13-2.0			0.1			
		Totals:	2.8			
300 Excavation			Excav	Haul	Haul	
Joo Encavacion			LCY.s	sta-yds	yd-mi	
39-13-2.5			1,202	431	56	
39-13-25.7			410	538	0	
39-13-26.2			730	0	65	
37 13 20.2						
		Totals:	2,342	969	121	
Construct Landing	Area U	nit 5 4	0-13-2.0			
Tractor: D7 w						 2 hr
Construct Roadsid Excavator - L						2 hm
Excavator - L	arge (3	CY)				 3 III
400 Drainage						
Road Number	Culve	rt .	Polypipe	Downspout		
39-13-2.5	40		0 lf	0 lf		
39-13-26.1	55		0 lf	0 lf		
40-13-2.0	40		0 1f	0 11 0 1f		
40-13-2.0	40 .	LΤ	0 11	0 11		
Total Drainage:	135	lf			-	
Culvert Inlet Mar	ker 3	9-13-26.1				
6' Steel "T-P	ost".					 1 ea
Culvert Inlet Mar						
6' Steel "T-P						 1 ea

39-13-27.9

500 Renovation 39-13-13.4 39-13-25.6 39-13-26.1 39-13-27.9		Blade Mil 0.07 0.06 0.30 0.22	es Slide	су 0 0 0 0	
Approach Re-construction Tractor: D7 with rippe Approach Re-construction Tractor: D7 with rippe Renovate Roadway & Landing Tractor: D7 with rippe Roadside Landing Construct Tractor: D7 with rippe Stream crossing renovation Excavator - Large (3 C) Subgrade widening 39-13- Tractor: D7 with rippe	39-13-13 ers 39-13-2 ers 39-13- ers ion 39- ers 39-13- ery	7.9 			3 hr 3 hr 3 hr 4 hr
Surfacing (Loose Cubic Yards Note: Due to slight rounding Totals shown here may not be	differer				
Quarry Name: Da-Tone 1.5-0" Commercial 40-13-2.0		Roadway 0	Turnouts 0	Other 10	10
Т	otals:	0	0	10	10
Quarry Name: Da-Tone 3" Commercial 40-13-2.0		Roadway 0	Turnouts 0	Other 10	10
T	otals:		0	10	10
1300 Geotextiles	otals:	No Quanti	ties		
1400 Slope Protection					
			Totals:	0 cy	
Т	otals:	0			
1800 Soil stabilization - accompany and a second stabilization - accompany and a second secon	eres	Dry W/O Mulch 0.0 0.0 0.0 0.0 0.0	Dry/with Mulch 0.2 0.8 0.2 0.2 0.3	Hydro Mulch	

0.0 0.5

Continuation of Construction Quantities

2400 Minor Concrete

Totals: No Quantities

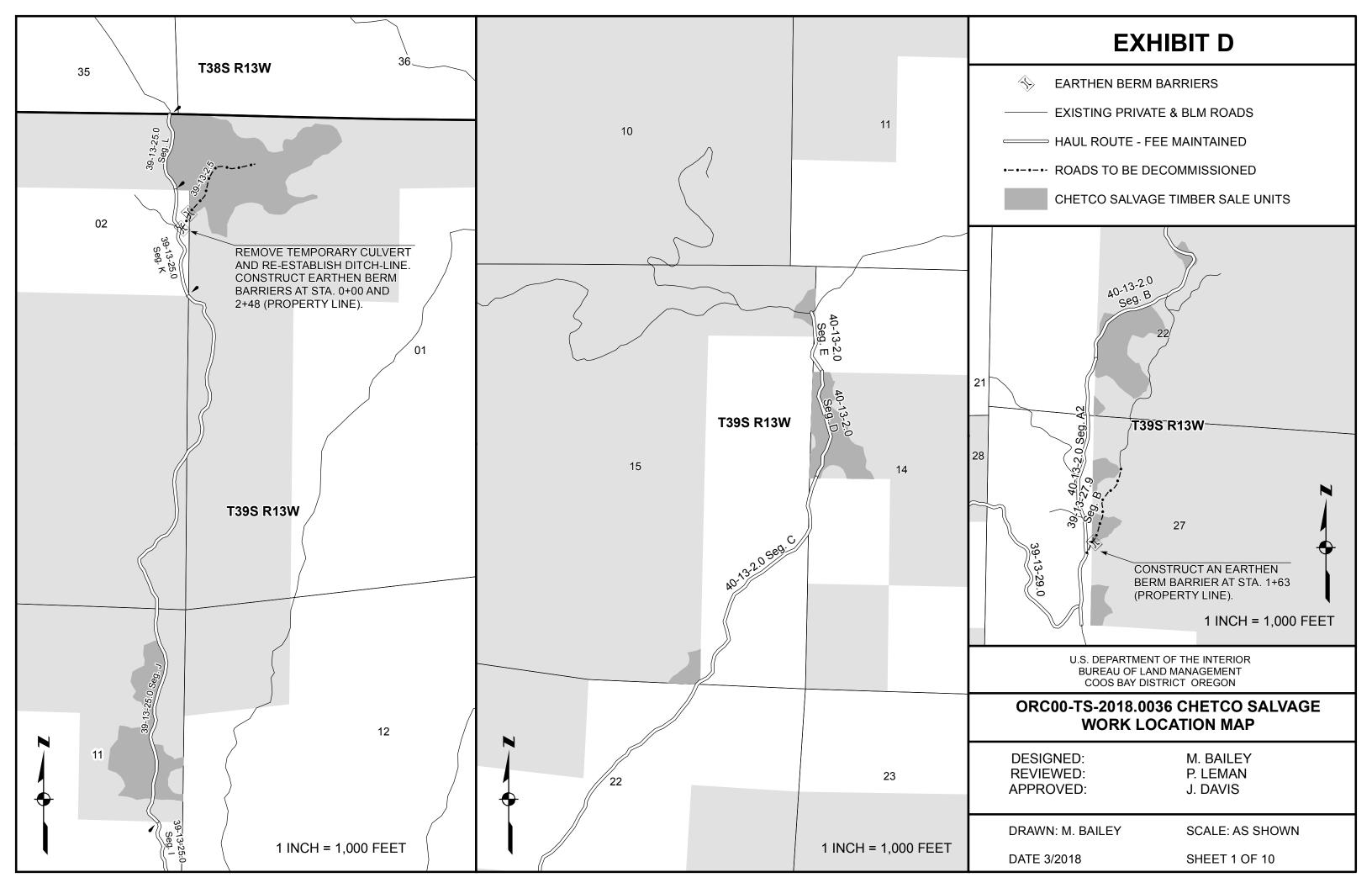
Totals: 0.00

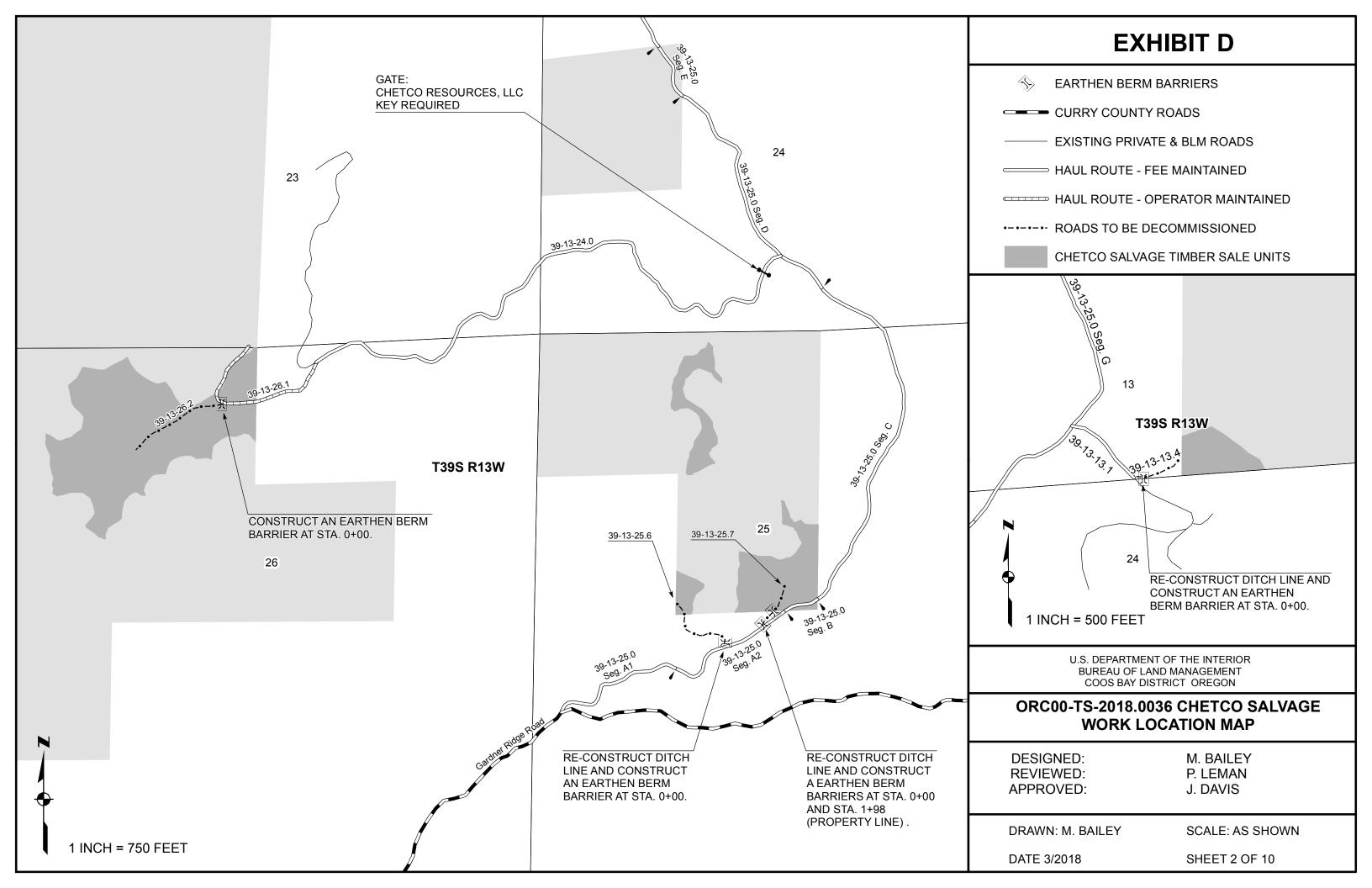
2500 Gabions

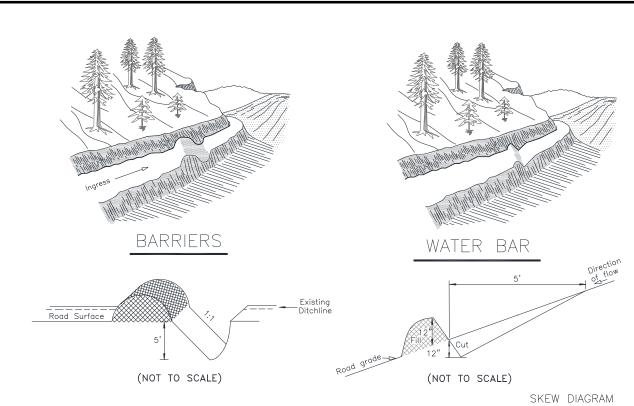
Totals: No Quantities

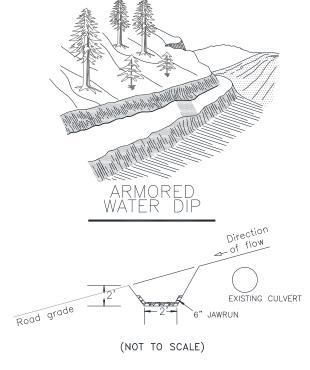
8000 Miscellaneous

Totals: No Quantities



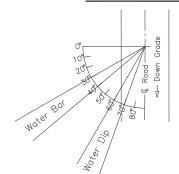






NOTES:

- 1. ALL BARRIERS, WATER BARS, AND WATER DIPS AS REQUIRED SHALL BE CONSTRUCTED AS SHOWN.
- 2. LOCATIONS WILL BE AS DIRECTED BY THE AUTHORIZED OFFICER PRIOR TO CONSTRUCTION.
- 3. ALL WATER BARS SHALL BE SKEWED 30° 40°.
- 4. ALL WATER DIPS SHALL BE SKEWED 60° 70°.
- 5. ALL WATER BARS AND DIPS SHALL BE CUT INTO THE ROADBED FROM THE DITCHLINE.
- 6. DITCHLINES SHALL BE BLOCKED WITH EXCAVATED MATIERAL (DITCH DAM) DOWNGRADE FROM ALL WATER BARS AND DIPS.
- 7. EXCAVATED MATIERAL FROM BARRIER TRENCH CONSTRUCTION SHALL BE PLACED ON THE SIDE NEAREST THE BEGINNING OF THE ROAD.
- 8. ALL BERMS INCLUDING WATER BARS, DIPS, AND EARTHEN BARRIERS SHALL BE COMPACTED TO 85% OF MAXIMUM DENSITY.



WATER BAR/DIP SPACING

ROAD GRADE (%)	MAXIMUM SPACING (FT)
3-5 6-10	200 150
11-15	100
16-20	75
21+	50

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

ORC00-TS-2018.0036 CHETCO SALVAGE BARRIER AND EROSION CONTROL DETAIL

DESIGNED: M. BAILEY REVIEWED: P. LEMAN APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: AS SHOWN

DATE 3/2018 SHEET 3 OF 10

		SURF	ACING				OTHER			SOIL STABILIZATION *** 1800 ACRES 0.7 0.2 0.1* 0.2 0.2 0.6 0.5 0.5 0.1*
ROAD NUMBER	REPAIR ROCK	REPAIR ROCK	MAINTENANCE ROCK	MAINTENANCE ROCK	RIPRAP BARRIER	EARTHEN BERM BARRIER	CULVERT REMOVAL		FULL DECOMM.	STABILIZATION ***
SPECIFICATION NO.	1000	1200	1000	1200	1400	3400	3400	3400	3400	1800
UNITS	CY	CY	CY	CY	CY	EA	EA	MILES	STA.	ACRES
39-13-2.5						2	1	0.27		0.7
39-13-13.4						1		0.07		0.2
39-13-24.0										0.1*
39-13-25.6						1		0.06		0.2
39-13-25.7						2		0.10		0.2
39-13-26.1								0.30		0.6
39-13-26.2						1		0.18		0.5
39-13-27.9						1		0.22		0.5
40-13-2.0										0.1*
TOTALS *Ouantites shown are for	0	0	0	0	0	8	1	1.20	0	2.9

*Quantites shown are for roadside landing areas only.

U.S. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT COOS BAY DISTRICT OREGON

ORC00-TS-2018.0036 CHETCO SALVAGE ESTIMATE OF QUANTITES

DESIGNED: M. BAILEY REVIEWED: P. LEMAN APPROVED: J. DAVIS

DRAWN: M. BAILEY SCALE: NONE

DATE 3/2018 SHEET 4 OF 10

ORC00-TS-2018.0036 CHETCO SALVAGE Exhibit D Sheet 5 of 10

ROAD MAINTENANCE SPECIFICATIONS

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

Section

3000	GENERAL
3100	OPERATIONAL MAINTENANCE
3200	SEASONAL MAINTENANCE
3300	FINAL MAINTENANCE
3400	OTHER MAINTENANCE

ORC00-TS-2018.0036 CHETCO SALVAGE Exhibit D Sheet 6 of 10

GENERAL - 3000

- 3001 The Purchaser shall be required to maintain all roads as shown on the Exhibit D map of this contract in accordance with Sections 3000, 3100, 3200, 3300, and 3400 of this exhibit.
- 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 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.
- The Purchaser shall be responsible for providing timely maintenance and cleanup on any road(s) with logging units substantially completed prior to moving operations to other roads. 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 patrol 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.
- The Purchaser shall maintain established berms and place additional berms using adjacent material where needed to protect fills as directed by the Authorized Officer.
- 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 patrol grader, rubber-tired front-end bucket loader, rubber-tired backhoe or comparable equipment, and by the use of hand tools.
- 3104a Removal of bank slough and slide material includes placement of material at the nearest suitable turnout or 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.
- 3104b The Purchaser shall be responsible for removal of all slides or slough, up to fifteen (15) 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 (15) 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 work, based on current BLM Timber Appraisal Production Cost

Schedules. Adjustments in purchase price for completed work shall be made as necessary and no less than once per year when actual work is ongoing.

- The Purchaser shall be responsible for maintaining normal flow in drainage structures. This includes cleaning out drainage ditches, catch basins, clearing pipe inverts of sediment and other debris lodged in the barrel of the pipe and maintaining water dips and water bars using equipment specified in Subsection 3104 and other culvert cleaning and flushing equipment.
- The Purchaser shall be responsible for repair and replacement of all materials eroded from road shoulders and fill slopes, up to fifteen (15) station yards in quantity, at any one site. The 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 (15) 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 Timber Sale Appraisal Production Cost Schedules. 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.
- The Purchaser shall avoid fouling gravel or bituminous surfaces through covering with earth and debris from side ditches, slides, or other sources. The Purchaser shall also avoid blading surfacing material off the running surface of the roadway. Skidding of logs on the roadway in or outside designated logging units is not authorized without prior written approval by the Authorized Officer. Repair required by such skidding activity is not considered maintenance and shall be performed at the Purchaser's expense.
- 3108a The Purchaser shall perform logging operations on gravel and/or bituminous roadways only where the locations have been marked on the ground and/or approved by the Authorized Officer.

SEASONAL MAINTENANCE - 3200

- The Purchaser shall perform preventive 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 cross ditching, blockage, removing ruts or other surface irregularities, and all other requirements specified in Section 3100.
- The Purchaser shall perform and complete maintenance, specified in Sections 3000, 3100, and 3200, on all roads maintained by him, prior to October 15 each year, except

ORC00-TS-2018.0036 CHETCO SALVAGE Exhibit D Sheet 8 of 10

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 preceding operating seasons.

- 3203 The Purchaser shall complete road cleanup and maintenance, as specified in Section 3100, at the completion of logging operations on any roads located in an area separate from the area where logging activities will resume.
- 3204 The Purchaser shall be responsible for performing post storm inspections and maintenance during the winter season to minimize erosion and potential road or watershed damage.

FINAL MAINTENANCE - 3300

3301 The Purchaser shall complete final maintenance and/or damage repairs on all roads used under terms of their contract within 30 calendar days following the expiration of Purchaser's right to cut and remove timber (Sec. 4) 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 Section 16.(b), Special Provisions Sections 3000, 3100, 3200, and 3300 of the maintenance specifications have been completed and a relinquishment of cutting and removal rights on cutting units tributary to these roads is signed by the Purchaser. Request for partial acceptance must be submitted in writing by the Purchaser.

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

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

OTHER MAINTENANCE - 3400

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

3420 The Purchaser shall perform the following work:

Road No.	Work
NOTE:	All water bars and earthen berm barriers shall be constructed in accordance with Barrier and Erosion Control Sheet No. 3 and soil stabilization work shall be done in accordance with Section 1800 of the Exhibit C.
39-13-2.5	Remove temporary culvert and restore ditch line of Chetco Resources, LLC Road No. 39-13-25.0 Seg. K in roadway approach. Legally dispose of the removed culvert off of Government and private lands. Construct water bars from Sta. 0+00 to 14+25. Construct earthen berm barriers at Sta. 0+00 and at the property line at Sta. 2+48. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.
39-13-13.4	Restore ditch line of Chetco Resources, LLC Road No. 39-13-13.1 in roadway approach. Construct water bars from Sta. 0+00 to 3+50. Construct an earthen berm barrier at Sta. 0+00. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.
39-13-24.0	Seed, fertilize, and mulch all disturbed areas including the roadside landing area.
39-13-25.6	Restore ditch line of Chetco Resources, LLC Road No. 39-13-25.0 Seg. A2 in roadway approach. Construct water bars from Sta. 0+00 to 3+00. Construct an earthen berm barrier at Sta. 0+00. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.
39-13-25.7	Restore ditch line of Chetco Resources, LLC Road No. 39-13-25.0 Seg. A2 in roadway approach. Construct water bars from Sta. 0+00 to 5+11. Construct earthen berm barriers at Sta. 0+00 and at the property line at Sta. 1+98. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.
39-13-26.1	Construct water bars from MP 0.00 to 0.30. Seed, fertilize, and mulch all disturbed areas including the road surface.
39-13-26.2	Construct water bars from Sta. 0+00 to 9+75. Construct an earthen berm barrier at Sta. 0+00. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.
39-13-27.9	Construct water bars from Sta. 0+00 to 11+80. Construct an earthen berm barrier at the property line at Sta. 1+63. Seed, fertilize, and mulch all disturbed areas including the road surface and landing areas.

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40-13-2.0 Seed, fertilize, and mulch all disturbed areas including the roadside landing areas.

Sale: Chetco Salvage Sale Date: 05/23/2018

UNITED STATES Prep. By: M. Bailey DEPARTMENT OF THE INTERIOR Tract No: 2018.0036 BUREAU OF LAND MANAGEMENT

ROAD MAINTENANCE AND ROAD USE APPRAISAL WORK SHEET

Summary of Costs

Purchaser	Maintenance	Allowances:
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(5.2A) Move In	\$1,608.00
(5.2B) Culverts, Catch Basins, Downspouts	\$100.00
(5.2C) Grading, Ditching	\$567.81
(5.2D) Slide Removal and Slump Repair	\$0.00
(5.2E) Dust Palliative (Water)	\$0.00
(5.2F) Surface Repair (Aggregate)	\$0.00
(5.2G) Other	\$0.00
Total Purchaser Maintenance Allowances (5.2A-5.2G)	\$2,275.81
(2.1-5.2G) Cost $($0.00 + $2,275.81) = $2,275.81Cost/MBF \$2,275.81 / 2001 MBF = \$1.14/MBF$	\$1.14/MBF
(5.2H) Decommissioning	\$7,646.15
(5.2H) Cost/MBF \$7,646.15/2001 MBF =	\$3.82/MBF
(2.1-5.2H) Cost $($0.00 + $2,275.81 + $7,646.15) = $9,921.96$	
Total Cost/MBF (Excluding Road Use) \$9,921.96/2001 MBF =	\$4.96/MBF

Purchaser Operational Maintenance

Move In

	No	о Мо	ve Cost	c/ Dist	Sub-
Equipment	Units x	in x	50 Mi x	Factor =	total
Motor Grader	: 1	2	\$410.00	1.00	\$820.00
Back Hoe:	1	2	\$305.00	1.00	\$610.00
Loader:			\$410.00	0.63	\$0.00
Water Truck:			\$95.00	0.63	\$0.00
Dump Truck:	1	2	\$89.00	1.00	\$178.00
Excavator:			\$410.00	0.63	\$0.00
Roller:			\$410.00	0.63	\$0.00

(5.2A) Total \$1,608.00

Culvert Maintenance - Including Catch basins and Downpipes

$$\frac{\text{Miles x Cost/Mi}}{\$365.82} = \frac{\text{Subtotal}}{\$0.00}$$

Type CMP No CMPS x Cost/CMP = Subtotal
Minor Cleaning 2 50 \$100.00

(5.2B) Total \$100.00

Grading (Includes Ditches and Shoulders)

Miles	X	Cost/Mi	x Freq	= Subtotal		
Blade	w/	Ditch:	0.20	\$694.50	1	\$138.90
Blade	w/o	Ditch:	1.00	\$428.91	1	\$428.91

(5.2C) Total \$567.81

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

Туре	No Slides	Но	urs	Equip	
Equipment	/Slumps	х	Each	x Cost	= Subtotal
Grader:	0		0	\$140.96	\$0.00
Loader:	0		0	\$101.17	\$0.00
Backhoe:	0		0	\$85.84	\$0.00

(5.2D) Total $\frac{$0.00}{}$

Dust Palliative (Water)

Spreading Hours

	No		Freq		-	Truck						
	Miles	/	MPH	=	=	Hours	х	Days	x	/Day	=	Hours
	0.00		0					0		0		0
Load & Haul = Total Hours =						0.0		0		0		0

Truck Cost: $$78.81/Hr. \times 0.0 \text{ Hours} = 0.00

(5.2E) Total \$0.00

Surface Repair (Aggregate)

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

(5.2F) Total <u>\$0.00</u>

Other

Fallen Timber Cutting: Brush Cutting/Tree Trimming: Oil/Asphalt Materials: Signing for Dust Palliatives:	0.0 Hours x \$0.00/Hour 0.0 Hours x \$0.00/Hour Lump Sum	=\$0.00 =\$0.00 =\$0.00 =\$0.00 =\$0.00 =\$0.00 =\$0.00 =\$0.00
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Decommissioning

Pipe Removal

Road	Qty	Cyd	Cyd	Qty	
Number	Ditch Pipes	< 15' Fill	> 15' Fill	Hauling	= Total
39-13-2.5	(1x\$106.05)	+ (15x\$2.62) +	(0x\$4.39) + (1)	lx\$75.82) =	\$221.17
(Pipe Removal)	Total \$221.1	<u>7</u>			

Other Costs

Road Number	Cubic Yds Pullback Materia	al	Qty Waterbars	Ear	Qty othen Barriers	= Total
39-13-27.9 39-13-26.2 39-13-26.1 39-13-25.7 39-13-25.6 39-13-2.5 39-13-13.4	(0x\$1.77) (0x\$1.77) (0x\$1.77) (15x\$1.77) (15x\$1.77) (0x\$1.77)	+ + + + + + +	(12x\$55.35) (10x\$55.35) (8x\$55.35) (8x\$55.35) (3x\$55.35) (15x\$55.35) (4x\$55.35)	+ + + + +	(1x\$166.04) (1x\$166.04) (0x\$166.04) (2x\$166.04) (1x\$166.04) (2x\$166.04) (1x\$166.04)	= \$830.24 = \$719.54 = \$442.80 = \$801.43 = \$358.64 = \$1,162.33 = \$413.99

(Other Cost) Total \$4,728.97

Time & Equipment

39-13-27.9 Seed	& Fertilizer & Mulch:	0.5 ac @ \$869.68/ac	=\$434.84
40-13-2.0 Seed	& Fertilizer & Mulch:	0.1 ac @ \$869.68/ac	=\$86.97
39-13-26.2 Seed	& Fertilizer & Mulch:	0.5 ac @ \$869.68/ac	=\$434.84
39-13-26.1 Seed	& Fertilizer & Mulch:	0.6 ac @ \$869.68/ac	=\$521.81
39-13-25.7 Seed	& Fertilizer & Mulch:	0.2 ac @ \$869.68/ac	=\$173.94
39-13-25.6 Seed	& Fertilizer & Mulch:	0.2 ac @ \$869.68/ac	=\$173.94
39-13-24.0 Seed	& Fertilizer & Mulch:	0.1 ac @ \$869.68/ac	=\$86.97
39-13-2.5 Seed	& Fertilizer & Mulch:	0.7 ac @ \$869.68/ac	=\$608.78
39-13-13.4 Seed	& Fertilizer & Mulch:	0.2 ac @ \$869.68/ac	=\$173.94

(5.2H) Decommissioning Total \$7,646.15

NET MBF

A. ROAD USE FEES - Payable to Private Company:

		AGREEMENT	ROAD	NET	USE FEE	TOTAL
	COMPANY NAME:	NUMBER:	NUMBER	MBF	per MBF	FEES:
Ċ	hetco Resources		39-13-25.0	170	\$0.00	\$0.00
C	hetco Resources		39-13-25.0	538	\$0.00	\$0.00
C	hetco Resources		39-13-25.0	608	\$0.00	\$0.00
c	hetco Resources		39-13-25.0	650	\$0.00	\$0.00
C	hetco Resources		39-13-25.0	706	\$0.00	\$0.00
c	hetco Resources		39-13-25.0	776	\$0.00	\$0.00
c	hetco Resources		39-13-13.1	28	\$4.00	\$112.00
c	hetco Resources		39-13-25.0	804	\$0.00	\$0.00
C	hetco Resources		39-13-24.0	518	\$0.00	\$0.00
<u></u>	hetco Resources		39-13-24.0	574	\$0.00	\$0.00
C	hetco Resources		39-13-25.0	1378	\$0.00	\$0.00
<u> </u>	hetco Resources		39-13-25.0	1406	\$0.00	\$0.00
<u> </u>	hetco Resources		39-13-25.0	1504	\$0.00	\$0.00
c	hetco Resources		39-13-25.0	1532	\$0.00	\$0.00
G	hetco Resources		40-13-2.0	14	\$0.00	\$0.00
G	hetco Resources		40-13.2.0	56	\$0.00	\$0.00
<u> </u>	hetco Resources		40-13-2.0	84	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	168	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	196	\$0.00	\$0.00
<u>-</u>	hetco Resources		40-13-2.0	210	\$0.00	\$0.00
<u></u>	hetco Resources		40-13-2.0	294	\$0.00	\$0.00
G	hetco Resources		40-13-2.0	364	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	378	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	433	\$0.00	\$0.00
7	hetco Resources		39-13-29.0	469	\$4.00	\$1,876.00
7	hetco Resources		40-13-2.0	469	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	469	\$0.00	\$0.00
7	hetco Resources		40-13-2.0	469	\$0.00	\$0.00
7	hetco Resources		40-13-5.1	469	\$4.00	\$1,876.00
7	hetco Resources		40-14-25.0	469	\$4.00	\$1,876.00
7	hetco Resources		39-13.25.6	28	\$4.00	\$112.00
Γ						

TOTAL USE FEE:

\$5,852.00

B. MAINTENANCE FEES:

1. Maintenance and Rockwear Fees Payable to the U.S. (BLM Maintained Roads):

a. Timber Haul:

Surface		NET	ROAD	SURFACE REPLACEMENT	REGULAR MAINTENANCE		Œ
Туре	ROAD NUMBER:	MBF	MILES:	/MBF/Mile	Subtotal	/MBF/Mile	Subtotal
				<u> </u>	\$0.00	T	\$0.00
					\$0.00		\$0.00

2. ROCKWEAR Fees Payable to the U.S. (OPERATOR Maintained Roads):

	a. Timber Haul:			SURFACE		
Surface		NET	ROAD	REPLACEMENT		ROCKWEA
Туре	ROAD NUMBER: MBF		MBF MILES: /MBF/Mile			Subtotal
Dirt	39-13-2.5	170	0.10	\$0.00		\$0.00
Dirt ·	39-13-2.5	368	0.20	\$0.00		\$0.00
Dirt	39-13-13.4	28	0.66	\$0.00		\$0.00
Dirt	39-13-26.2	350	0.05	\$0.00		\$0.00
Dirt	39-13-26.2	518	0.06	\$0.00		\$0.00
Dirt	39-13-26.1	518	0.20	\$0.00		\$0.00
Dirt	39-13-25.7	98	0.10	\$0.00		\$0.00
Dirt	39-13-25.6	28	0.06	\$0.00		\$0.00
Dirt	39-13-27.9	18	0.11	\$0.00		\$0.00
Dirt	39-13-27.9	55	0.11	\$0.00		\$0.00
	.1				total	\$0.00

3. ROAD MAINTENANCE AND/OR ROCKWEAR FEES - Payable to Private Company:

	3. ROAD MAINTENA	NCE AND/OR RU	CKWEAR FEES - P	ayable to Private t	Company:	MAINTENANCE A	ND/OR
Surface		AGREEMENT	ROAD	NET	ROAD	ROCKWEAR FEE	ROCKWEAR
Type	COMPANY NAME:	NUMBER:	NUMBER	MBF	MILES:	/MBF/MILE	Subtotal
,	00				-		
Rock	Chetco Resources	C-706	39-13-25.0	170	0.15	\$1.35	\$34.43
Rock	Chetco Resources	C-706	39-13-25.0	538	1.30	\$1.35	944.19
Rock	Chetco Resources	C-706	39-13-25.0	608	0.10	\$1.35	82.08
Rock	Chetco Resources	C-706	39-13-25.0	650	0.20	\$1.35	175.5
Rock	Chetco Resources	C-706	39-13-25.0	706	0.10	\$1.35	95.31
Rock	Chetco Resources	C-706	39-13-25.0	776	1.60	\$1.35	1676.16
Rock	Chetco Resources	C-706	39-13-13.1	28	0.10	\$1.55	4.34
Rock	Chetco Resources	C-706	39-13-25.0	804	1.00	\$1.35	1085.4
Rock	Chetco Resources	C-706	39-13-24.0	518	0.90	\$1.55	722.61
Rock	Chetco Resources	C-706	39-13-24.0	574	0.20	\$1.55	177.94
Rock	Chetco Resources	C-706	39-13-25.0	1378	0.92	\$1.35	1711.476
Rock	Chetco Resources	C-706	39-13-25.0	1406	0.08	\$1.35	151.848
Rock	Chetco Resources	C-706	39-13-25.0	1504	0.10	\$1.35	203.04
Rock	Chetco Resources	C-706	39-13-25.0	1532	0.30	\$1.35	620.46
Rock	Chetco Resources	C-706	40-13-2.0	14	0.1	\$1.55	2.17
Rock	Chetco Resources	C-706	40-13.2.0	56	0.1	\$1.55	4.34
Rock	Chetco Resources	C-706	40-13-2.0	84	0.1	\$1.55	6.51
Rock	Chetco Resources	C-706	40-13-2.0	· 168	0.1	\$1.55	13.02
Rock	Chetco Resources	C-706	40-13-2.0	196	0.65	\$1.55	197.47
Rock	Chetco Resources	C-706	40-13-2.0	210	0.7	\$1.55	227.85
Rock	Chetco Resources	C-706	40-13-2.0	294	0.2	\$1.55	91.14
Rock	Chetco Resources	C-706	40-13-2.0	364	0.2	\$1.55	112.84
Rock	Chetco Resources	C-706	40-13-2.0	378	0.4	\$1.55	234.36
Rock	Chetco Resources	C-706	40-13-2.0	433	0.1	\$1.55	67.115
Rock	Chetco Resources	C-706	39-13-29.0	469	3.5	\$1.55	2544.325
Rock	Chetco Resources	C-706	40-13-2.0	469	0.5	\$1.55	363.475
Rock	Chetco Resources	C-706	40-13-2.0	469	1.2	\$1.55	872.34
Rock	Chetco Resources	C-706	40-13-2.0	469	0.1	\$1.55	72.695
Rock	Chetco Resources	C-706	40-13-5.1	469	2.7	\$1.55	1977.304
Rock	Chetco Resources	C-706	40-14-25.0	469	6.9	\$1.55	5015.955
							\$19,487.69

4. OPERATOR MAINTENANCE WILL BE REQUIRED ON APPROX.

1.2 MILES OF ROAD. (SEE EXHIBIT D)

			ROCKW	ROCKWEAR &		
SUMMARY OF ROAD USE &	ROAD USE	FEES	MAINTENANCE FEES		FEES	
ROAD MAINTENANCE FEES	TOTAL	\$/MBF	TOTAL	\$/MBF	TOTAL	
1. COMPANY-OWNED ROADS:	\$5,852.00	\$2.97	\$19,487.69	\$9.88	\$0.00	
2. BLM MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	
3. BLM OPERATOR-MAINTAINED ROADS:			\$0.00	\$0.00	\$0.00	
	\$5,852.00	\$2.97	\$19,487.69	\$9.88	\$0.00	

Exhibit F

SPECIAL PROVISIONS TO CONTROL THE SPREAD OF NOXIOUS WEEDS

Vehicle and Equipment Cleaning

- 1. Cleaning shall consist of the removal of soil and debris by washing with a high pressure hose or steam cleaning. Cleaning and inspection sites will be agreed to by Purchaser and BLM. All petroleum product residues shall be contained at wash sites and dealt with in accordance to DEQ standards. Contractor shall provide an approved plan for the cleaning station that demonstrates that the station meets all DEQ and water quality regulations. All necessary permits shall be obtained by the contractor.
- 2. All equipment parts shall be cleaned as designated by the Authorized Officer, including removal of tractor belly plates, in accordance with Sec.1 above.

All construction, logging and slash disposal equipment shall be cleaned prior to entering the contract area. The Authorized Officer will determine if log trucks and vehicles used for transportation of personnel shall be cleaned, based upon the location of use immediately prior to current timber sale. If the vehicles have been in a weed-infested area, they shall be washed before entering Contract Area, as shown on Exhibit A.

Legal Description of Contract Area

Land Status	County	Township	Range	Section	Subdivision	Meridian
PD	Curry	395	13W	1	Lots 15, 16, 17, 18	Willamette
PD	Curry	395	13W	2	Lot 1	Willamette
PD	Curry	39\$	13W	11	E 1/2 NE 1/4	Willamette
PD	Curry	395	13W	13	SW 1/4 SE 1/4	Willamette
PD	Curry	39\$	13W	14	SW 1/4 NW 1/4	Willamette
PD	Curry	39\$	13W	15	Lots 1, 9	Willamette
PD	Curry	39\$	13W	22	E 1/2 SW1/4	Willamette
PD	Curry	395	13W	25	N 1/2 NW 1/4, SE1/4 N/W 1/4	Willamette
PD	Curry	395	13W	26	NW 1/4	Willamette
PD	Curry	395	13W	27	E 1/2 NW 1/4	Willamette

Species Totals

Species	Net	Gross Merch	Gross	# of Merch Logs	# of Cull Logs	# of Trees
Douglas Fir	2,001.0	2,285.0	2,458.0	22,341	6,473	7,189
Totals	2,001.0	2,285.0	2,458.0	22,341	6,473	7,189

Cutting Area Acres

Regeneration Harvest Acres	Partial Cut Acres	Right of Way Acres	Total Acres	Net Volume per Acre
139.0	0.0	2.0	141.0	14.2

Logging Costs	
Stump to Truck	\$492,319.72
Transportation	\$87,287.00
Road Construction	\$46,404.59
Maintenance/Rockwear	\$29,409.65
Road Use	\$5,852.00
Other Allowances	\$22,388.62
Total:	\$683,661.58
Total Logging Cost per MBF:	\$341.66

Utilization Centers

Location	Distance	% of Net Volume
Brookings OR	18.4 miles	100 %
	Profit & Ris	k
Basic Profit & Ri	10 %	
Additional Risk		3 %
Total Profit & R	isk	13 %

Tract Features

Quadratic Mean DBH	19.2 in
Average GM Log	102 bf
Average Volume per Acre	14.2 mbf
Recovery	81 %
Net MBF volume:	
Green	0.0 mbf
Salvage	2,001 mbf
Export	0 mbf
Ground Base Logging:	
Percent of Sale Volume	65 %
Average Yarding Slope	10 %
Average Yarding Distance	250 ft
Cable Logging:	
Percent of Sale Volume	35 %
Average Yarding Slope	40 %
Average Yarding Distance	343 ft
Aerial Logging:	
Percent of Sale Volume	0 %
Average Yarding Slope	0 %
Average Yarding Distance	0 ft

Cruise

Cruise Completed	March 2018
Cruised By	Davis,Stover
Cruise Method	

For all Harvest Areas: The timber volumes for all tree species are based on a variable plot cruise, containing a total of 91 plots and 54 randomly selected sample trees. Plots were measured using a 20 basal area factor (BAF). The volume of the randomly selected sample trees has been expanded to a total sale volume.

Stumpage Computation

Species	# of Trees	Net Volume	Pond Value	(-) Profit & Risk	(-) Logging Costs	(+) Marginal Log Value	Appraised Price/MBF	Appraised Value
Douglas Fir	7,189	2,001.0	\$506.70	\$65.87	\$341.66	\$0.00	\$99.20	\$198,499.20
Totals	7,189	2,001.0						\$198,499.20

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				79.0 %	20.0 %	1.0 %	

Unit: 1

Species	Net	Gross Merch	Gross	# of Trees			
Douglas Fir	524.0	597.0	643.0	1,874			
Totals:	524.0	597.0	643.0	1,874			

Net Volume/Acre: 14.2 MBF

0.0
0.0
37.0

Unit: 2

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	238.0	272.0	292.0	856
Totals:	238.0	272.0	292.0	856

Net Volume/Acre: 14.0 MBF

Regeneration Harvest	17.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	17.0

Unit: 3

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	14.0	16.0	17.0	50
Totals:	14.0	16.0	17.0	50

Net Volume/Acre: 14.0 MBF

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

Unit: 4

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	154.0	176.0	189.0	554
Totals:	154.0	176.0	189.0	554

Net Volume/Acre: 14.0 MBF

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

Unit: 5

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	168.0	192.0	206.0	604
Totals:	168.0	192.0	206.0	604

Net Volume/Acre: 14.0 MBF

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

Unit: 6

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	91.0	104.0	115.0	330
Totals:	91.0	104.0	115.0	330

Unit: 7

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	504.0	576.0	619.0	1,813
Totals:	504.0	576.0	619.0	1,813

Unit: 8

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	154.0	176.0	189.0	554
Tot	als: 154.0	176.0	189.0	554

Unit: 9

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	56.0	64.0	69.0	201
Totals:	56.0	64.0	69.0	201

Unit: 10

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	28.0	32.0	34.0	101
Totals:	28.0	32.0	34.0	101

Unit: 11

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	14.0	16.0	17.0	50
Totals:	14.0	16.0	17.0	50

Net Volume/Acre: 18.2 MBF

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

Net Volume/Acre: 14.0 MBF

Regeneration Harvest	36.0
Partial Cut	0.0
Right of Way	0.0
Total Acres:	36.0

Net Volume/Acre: 14.0 MBF

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

Net Volume/Acre: 14.0 MBF

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

Net Volume/Acre: 14.0 MBF

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

Net Volume/Acre: 14.0 MBF

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

Unit: 12

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	28.0	32.0	34.0	101
Totals:	28.0	32.0	34.0	101

Unit: RW

Species	Net	Gross Merch	Gross	# of Trees
Douglas Fir	28.0	32.0	34.0	101
Totals:	28.0	32.0	34.0	101

Net Volume/Acre: 14.0 MBF

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

Net Volume/Acre: 14.0 MBF

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

Total Stump To Truck	Net Volume	\$/MBF
\$492,319.72	2,001.0	\$246.04

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

Yarding System	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Small Yarder	GM MBF	794.0	\$240.77	\$191,171.38	
Wheel Skidder	GM MBF	1,491.0	\$195.74	\$291,848.34	
Subtotal				\$483,019.72	

Additional Costs

Item	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Lift Tree	Each	22.0	\$150.00	\$3,300.00	
Intermediate Support	Each	5.0	\$150.00	\$750.00	
Subtotal				\$4,050.00	

Additional Moves

Equipment	Unit of Measure	# of Units of Measure	\$/Unit of Measure	Total Cost	Remarks
Cable: Small Yarder	Each	3.0	\$750.00	\$2,250.00	additional moves to landing that are miles apart
Shovel	Each	3.0	\$500.00	\$1,500.00	additional moves to landing that are miles apart
Stroke delimber	Each	3.0	\$500.00	\$1,500.00	additional moves to landing that are miles apart
Subtotal				\$5,250.00	

Total	Net Volume	\$/MBF
\$87,287.00	2,001.0	\$43.62

Utilization Center	One Way Mileage	Description	Unit of Measure	# of Units	\$/Unit of Measure	Total Cost	% of Sale Volume
Brookings OR	18.4	Saw logs	GM MBF	2,285.0	\$38.20	\$87,287.00	100 %

Engineering Allowances

Total	Net Volume	\$/MBF
\$81,666.24	2,001.0	\$40.81

Cost Item	Total Cost
Road Construction:	\$46,404.59
Road Maintenance/Rockwear:	\$29,409.65
Road Use Fees:	\$5,852.00

Comments:

EX D \$9921.96 + EX E \$19,487.69=29,409.65

Total	Net Volume	\$/MBF
\$22,388.62	2,001.0	\$11.19

Environmental Protection

Cost item	Total Cost
Equipment Washing	\$1,950.00
Subtotal	\$1,950.00

Logging

Cost item	Total Cost
Flaggers	\$8,337.28
Subtotal	\$8,337.28

Miscellaneous

Cost item	Total Cost
Treatment for Bearing Stumps	\$750.00
Cut and deck private RW	\$1,657.24
Subtotal	\$2,407.24

Slash Disposal & Site Prep

Cost item	Total Cost
Landing pullback	\$3,499.86
Landing Pile Burn	\$780.58
Machine Pile Burn	\$793.00
Landing Pile Cover	\$1,447.66
Machine Pile and cover	\$3,173.00
Subtotal	\$9,694.10

INSTRUCTIONS TO BIDDERS

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

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

10. PERFORMANCE BOND -

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

- 14. NINETY-DAY SALES If no bid is received within time specified in the advertisement of sale and if Government determines that there has been no significant rise in the market value of timber/vegetative resource, it may, in its discretion, keep the sale open, not to exceed ninety (90) days.
- 15. UNAUTHORIZED USE OF GOVERNMENT PROPERTY A sale may be refused to high bidder who has been notified that he has failed to make satisfactory arrangements for payment of damages resulting from unauthorized use of, or injury to, property of the United States.
- 16. EQUAL OPPORTUNITY CLAUSE— This contract is subject to the provisions of Executive Order No. 11246 of September 24, 1965, as amended, which sets forth the nondiscrimination clauses. Copies of this order may be obtained from the District Manager. 43 CFR 60-1.7(b) requires that the Equal Opportunity Compliance Report Certification will be completed by prospective contractors. Certification may be obtained from District Manager.
- 17. LOG EXPORT All timber offered for sale except as noted in the *Timber Sale Notice* is restricted from export from the United States in the form of unprocessed timber and cannot be used as a substitute for exported private timber. For the purpose of this contract, unprocessed timber is defined as: (1) any logs except those of utility grade or below, such as sawlogs, peeler logs, and pulp logs; (2)
- cants or squares to be subsequently remanufactured exceeding eight and three quarters (8-3/4) inches in thickness; (3) split or round bolts or other roundwood not processed to standards and specifications suitable for end product use; or (4) western red cedar lumber which does not meet lumber of American Lumber Standards Grades of Number 3 dimensions or better, or Pacific Lumber Inspection Bureau R-List Grades of Number 3 common or better. Timber manufactured into the following will be considered processed: (1) lumber and construction timbers, regardless of size, manufactured to standards and specifications suitable for end product uses; (2) chips, pulp and pulp products; (3) green or dry veneer and plywood; (4) poles and piling cut or treated for use as such; (5) cants, squares, and lumber cut for remanufacture of eight and three quarters (8-3/4) inches in thickness or less; or (6) shakes and shingles. In event purchaser wishes to sell any or all of timber restricted from export in the form of unprocessed timber, the buyer, exchanges, or recipient shall be required to comply with contractual provisions relating to "unprocessed timber". Special reporting, branding and painting of logs may be included in contract provisions.*
- 18. DETAILED INFORMATION Detailed information concerning contract provisions, bid, performance bond forms, tract location maps, and access conditions may be obtained from the District Manager. All persons interested in bidding on the products listed are encouraged to familiarize themselves with all such detailed information.

(Form 5440-9, page 4)

Form 5440-9 (November 2011)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

☑ TIMBER or TIMBER AND OTHER WOOD PRODUCTS

DEPOSIT AND BID FOR

□ VEGETATIVE RESOURCES (Other Than Timber)

Name of Bidder	
Tract Number ORC00-TS-2018.0036	
Sale Name Chetco Salvage	
Sale Notice (dated) May 3, 2018	
BLM District Coos Bay District	

☐ Sealed Bid for Se	aled Bid Sale			☑ Written Bid for Oral Auction Sale		
Time for opening sea	led bids	☐ a.m.	☐ p.m.	Sale commences	☑ a.m. □ p.m.	
On (date)	Place			On (date) May 23, 2018	Place Coos	s Bay District Conf. Rm A
In response to the a timber/vegetative res				sit and bid are hereby sub	mitted for the	purchase of designated
Required bid deposit in cash money or bid bond of corpora	der 🗖 cashier's ch		check ban	and is enclosed in the form of: k draft asury guaranteed remittand	ce approved by the	he authorized officer.
				United States as liquidated of		

undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE - LUMP SUM SALE

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

	ORAL BID MADE					
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,001	х	=	х	
			х	=	х	=
			х	=	х	=
			х	=	х	=
			х	=	х	=
			х		х	=
			х	=	х	=.
			х	=	х	=
			х	=	х	=
			х	= ,	х	=
			х	=	х	=
			х	=	х	=
			х		х	=
			х	=	х	=
			х	=	х	=
			х	-	х	=
		TOTAL PURC	HASE PRICE			

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

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

NOTICES

The Privacy Act and 43 CFR 2.48(d) require that you be furnished with the following information in connection with the information required by this form.

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 or vegetative resources.

(Continued on page 3)

(Form 5440-9, page 2)

Form 5440-9 (November 2011)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

☑ TIMBER or TIMBER AND OTHER WOOD PRODUCTS

DEPOSIT AND BID FOR

□ VEGETATIVE RESOURCES (Other Than Timber)

Name of Bidder	
Tract Number ORC00-TS-2018.0036	
Sale Name Chetco Salvage	
Sale Notice (dated) May 3, 2018	
BLM District Coos Bay District	

☐ Sealed Bid for Se	aled Bid Sale			☑ Written Bid for Oral Auction Sale		
Time for opening sea	led bids	☐ a.m.	☐ p.m.	Sale commences	☑ a.m. □ p.m.	
On (date)	Place			On (date) May 23, 2018	Place Coos	s Bay District Conf. Rm A
In response to the a timber/vegetative res				sit and bid are hereby sub	mitted for the	purchase of designated
Required bid deposit in cash money or bid bond of corpora	der 🗖 cashier's ch		check ban	and is enclosed in the form of: k draft asury guaranteed remittand	ce approved by the	he authorized officer.
				United States as liquidated of		

undersigned fails to execute and return the contract, together with any required performance bond and any required payment within 30 days after the contract is received by the successful bidder. It is understood that no bid for less than the appraised price on a unit basis per species will be considered. If the bid is rejected the deposit will be returned.

BID SCHEDULE - LUMP SUM SALE

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

	ORAL BID MADE					
PRODUCT SPECIES	UNIT	ESTIMATED VOLUME OR QUANITY	UNIT PRICE	TOTAL VALUE	UNIT PRICE	TOTAL VALUE
Douglas-fir	MBF	2,001	х	=	х	
			х	=	х	=
			х	=	х	=
			х	=	х	=
			х	=	х	=
			х		х	=
			х	=	х	=.
			х	=	х	=
			х	=	х	=
			х	= ,	х	=
			х	=	х	=
			х	=	х	=
			х		х	=
			х	=	х	=
			х	=	х	=
			х	=	х	=
		TOTAL PURC	HASE PRICE			

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

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

(Form 5440-9, page 2)

Form 5430-1 (May 1965) (formerly 4-1560)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SELF CERTIFICATION CLAUSE BIDDERS STATEMENT

The bidder represents that he \Box is \Box is not a small business concern as defined by Title 13, Chapter 1, Part 121 of the Code of Federal Regulations, as amended.

(Date) (Signature of Bidder)

Title 18 USC, sec. 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

INSTRUCTIONS

In order to qualify for a set-aside sale, all bidders must certify to being a small business concern by submitting an executed Self Certification Clause.

The date on the Self Certification Clause and the sale date must be the same.

A Self Certification Clause must accompany the deposit to qualify for each set-aside sale. After a sale award is made,

the Self Certification Clause will be immediately returned, with the deposit, to the unsuccessful bidders but may be resubmitted to qualify for other set-aside sales offered on the same date.

The Self Certification Clause submitted by the successful bidder will be retained by the Bureau of Land Management.

GPO 850-444

GPO 905716